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FREIGHT RATES

632

AND EASTERN CANADA

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PREFACE

In offering this work to the public, the authors wish to state that it is designed with a view to setting forth the underlying principles and bases employed in constructing rates in the so-called Official Classification Territory. The rates used in the illustrations may be expected to change slightly from time to time, but this will not affect the general worth of the book, since the relationship of points is at all times preserved to some degree. The difficulties attending the preparation of a work in which specific rates are used can well be appreciated by men actually engaged in traffic work.

In preparing this treatise, the authors have availed themselves of the published bases for rate construction employed in Central Freight Association, Trunk Line Association, and New England Freight Association territories. In addition thereto, many railway officials and traffic experts have been consulted and information acquired through personal interviews and correspondence. The authors wish to express their appreciation of the assistance received from these sources.

The authors are under special obligation to Ralph E. Riley, of the LaSalle Extension University, for the assistance rendered in preparing the maps and diagrams and illustrations; to Asa Colton, of the same institution, who assisted in the preparation of the manuscript and offered many valuable suggestions; and also to Miss C. E. Brant for the assistance she rendered in preparing the manuscript for the printer, and in editing and revising proofs with such care that she corrected many inaccuracies that would otherwise have found their way into the text.

C. C. McC. J. P. C.



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FREIGHT RATES OFFICIAL CLASSIFICATION TERRITORY AND EASTERN CANADA

INTRODUCTION

TERRITORIAL DESCRIPTION

In the treatise on *Freight Classification* it was stated that in many cases a specified classification governs beyond the boundaries of the territory bearing its name. Under the heading "Official Classification Boundaries and General Application" in the treatise on *Freight Classification* it was shown that in a number of cases the Official Classification governs beyond the boundaries of the territory shown as Official Classification Territory in the *Atlas of Railway Traffic Maps.*¹ To ascertain the general reason which causes the "overlap" of the Official Classification into adjoining territory, it will be well to note a few of the overlaps as disclosed in the following pages.

1. The competition between Canadian lines serving such cities as Montreal and Quebec, Que., St. Johns, N. B., and Halifax, N. S., and American lines serving North Atlantic Ports, from Portland, Me., to Newport News, Va., has compelled the carriers, in many cases, to use the Official Classification between points in eastern Canada and the United States.

2. On the south competitive conditions prevail where the Chesapeake & Ohio Railway and Norfolk and Western

[&]quot;See Map 1, Atlas of Railway Traffic Maps.

Railway (traversing Southern Territory) compete for traffic to and from the seaboard with the New York Central Lines, Pennsylvania Lines, Baltimore & Ohio System, and other northern routes. In order to compete on an equitable basis, the rate adjustments of the different roads must be built upon the same lines and must be subject to the same rules, regulations, and classification. Here again we find that the limits of the territory have been extended somewhat.

3. Similarly, on the west certain competitive elements exist. On the eastern shore of Lake Michigan, Grand Haven, Manistee, Ludington, etc., mark the termini of several eastern rail routes. In order to attract tonnage to their rails, they have extended the Chicago² rate basis to and from such west-bank ports as Milwaukee, Marinette, Manitowoc, and Kewanee, Wis. The traffic is transported across Lake Michigan either as cargo (break-bulk) freight or in cars on car-ferry boats.

4. Still again, Chicago, Ill., St. Louis, Mo., on the one hand, and Duluth and St. Paul, Minn., on the other, are rivals for rate supremacy in supplying the west and northwest with products that they require. As both Chicago and St. Louis have for years drawn their supplies from the east under rates of transportation governed by the Official Classification, it was perfectly natural that the northern lines radiating from Duluth and St. Paul throughout the north and northwest established routes over which rates were established governed by the Official Classification which minimized advantages possessed in this respect by the southern cities.

One word will suffice to explain the so-called over-lap of these territorial rate adjustments and that is "Competition." It may be the competition between carriers (such as that between the Chesapeake & Ohio Railway

² Chicago is in 100% territory.

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and the Baltimore & Ohio System), or between territories (such as that between Canadian ports and ports in this country), or between transportation routes (such as that between the car-ferry routes across Lake Michigan and the all-rail routes via Chicago and Chicago Junctions), or between municipalities (such as that between Chicago, Ill., and Duluth, Minn., on traffic to or from the West). One or all of these phases of competition may account for the extension of a certain rate adjustment beyond the territorial limits proper.

SUBDIVISION OF TERRITORY

Official Classification Territory is divided into three rate territories, having associations as follows: (1)the New England Freight Association,^{3 6} which has jurisdiction over rates established or proposed on traffic moving between points in the New England States; (2) the Trunk Line Freight Association,⁴⁶ which has jurisdiction over rates on traffic moving between points in Trunk Line Freight Association Territory; and (3) the Central Freight Association,⁵⁷ which has jurisdiction over rates on traffic moving between points in that part of the middle-western states which is not under the jurisdiction of the Trunk Line Freight Association.

FREIGHT ASSOCIATIONS

These associations are composed of the principal roads operating within or through the respective territories. Like many associations, they are comprised of principal and subordinate committees, the principal committee usually being the executive committee, which directs the general administrative affairs of the association.

<sup>L. H. Kentfield, Chairman, New Haven, Conn.
C. C. McCain, Chairman, 143 Liberty St., New York, N. Y.
Eugene Morris, Chairman, Transportation Bldg., Chicago, Ill.
See Map 2, Atlas of Railway Traffic Maps.
'See Map 8, Atlas of Railway Traffic Maps.</sup>

FREIGHT RATES

The various business questions coming before the association are usually assigned to appropriate committees delegated to deal with such matters. The multiplicity of rate and traffic questions has necessitated the creation of many subordinate committees, such as the brick committee, the grain committee, the live stock and dressed meats committee, the import rate committee, the terminal and lighterage committee, etc.

The membership of the executive committee usually consists of vice-presidents in charge of traffic or the chief traffic officer, while the other committees are comprised of such officers as may be in charge of particular traffic. The development of these associations and committees in recent years has been rapid, particularly in the freight departments, and there are few roads at this time whose freight traffic officers are not members of some association or one or more committees thereof.

The increasing activities of national and state commissions and the innumerable decisions and regulations emanating from these bodies have added greatly to the subjects which must necessarily receive joint consideration by the carriers. It is publicly recognized that uniformity in rates by different routes, as well as any regulations affecting the movement of traffic, is essential in order that there shall be equality of charges and service to those who employ the railroads. It is only through some centralized association or committee that these matters can be suitably arranged and adjusted.

The Interstate Commerce Commission and various state commissions recognize and seek the co-operation of these associations as a convenient medium for the expeditious and uniform handling of matters affecting all carriers that are members thereof. Further, the utility of these associations is recognized by commercial bodies and by a large class of the shipping public who now understand that most questions of rate adjustment are of a competitive character, involving many-points commercially competitive, and are, therefore, of concern to many carriers, and that consideration and disposition thereof can be most satisfactorily conducted by conference through these associations.

From the carriers' standpoint it may be said that there are few questions of rate construction or traffic regulation that are now considered by these associations independently of their relation to, or effect upon, commercial interests, and it rarely occurs that important changes are made which have not to some extent been a matter of discussion with commercial bodies, interested shippers, or representatives of particular traffic or localities.

These associations are created and maintained by the railroads for the primary purpose of adjusting all questions of rate construction and collateral rules and regulations which are of common, competitive interest to members, and to secure the stability of reasonable rates and arrangements and the observance of the requirements of the law governing the same. There are no restrictive rules or penalties governing members, nor is there any curtailment of each carrier's rights independently to establish such rates and regulations as it may wish.

These associations are now recognized as an indispensable department of the carriers for the convenient and expeditious handling of the innumerable subjects relating to rates and traffic which must receive uniform treatment if the fundamental principles of the law are to be met by the carriers.

TRAFFIC CHARACTERISTICS

This territory, in so far as area is concerned, constitutes but one-ninth of that of the United States. It possesses, however, all of the attributes that make for low transportation charges.

FREIGHT RATES

NATURE OF THE COUNTRY

To begin with, the nature of the country, which is comparatively level east and west of the Allegheny Mountains, admits of an initial cost of construction and a subsequent cost of operation which are much lower, in all respects, than the high construction and operating costs, combined with light traffic, in the west and south.

DENSITY OF POPULATION

The following tabulation gives the population of the various states comprising the respective rate associations, the grand total constituting approximately one-half of the population of this country.

NEW ENGLAND FREIGHT ASSOCIATION TERRITORY⁸

Connecticut	1,114,756
Maine	742,371
Massachusetts	3,366,416
New Hampshire	430,572
Rhode Island	542,610
Vermont	355,956
_	
Total	6,552,681

TRUNK LINE FREIGHT ASSOCIATION TERRITORY

Delaware	. 202,322
Maryland	. 1,295,346
New Jersey	. 2,537,167
New York	. 9,113,614
Pennsylvania	7.665,111
District of Columbia	. 331,069
	·
Total	.21,144,629

⁸ It will be noted in the following tabulation that neither Virginia nor West Virginia is included therein, nor is the population of such points as St. Louis, Mo., Louisville, Ky., and other centers included, as it is believed that the states selected will fully emphasize the point at issue.

INTRODUCTION

CENTRAL FREIGHT ASSOCIATION TERRITORY

Illinois	 			. 5,638,591
Michigan	 			. 2,810,173
Ohio	 			. 4,767,121
Indiana	 	• • • • • • • • • • •	• • • • • • • • •	. 2,700,876
Total	 	• • • • • • • • • • • •		.15,916,761
Grand total ⁹	 			.43,614,071

The following tabulation shows that the density of railroad mileage and the per cent of the total mileage of the United States, as well as the number of miles of railroad for 100 miles of territory, are equally as favorable to this section of the country.

NEW ENGLAND FREIGHT ASSOCIATION TERRITORY

		Proportion	Number of
		to Total	Miles per 100
	Official	Mileage	Square Miles
State	Mileage	in U.S.	of Territory
Connecticut	999.04	.39	20.73
Maine	2275.57	.90	7.61
Massachusetts	2131.01	.84	26.51
New Hampshire	1255.85	.49	13.91
Rhode Island	202.96	.08	19.02
Vermont	1073.38	.42	11.76
	7937.81	3.12	

TRUNK LINE FREIGHT ASSOCIATION TERRITORY

Delaware 334.97 Maryland 1423.07	.13	17.04
New Jersey 2314.67	.91	30.80
New York 8534.15 Pennsylvania11692.57	3.36 4.61	26.08
D. of C 36.23	.01	60.38
24356.56	9.58	

* 1910 Census.

FREIGHT RATES

		Proportion	Number of
		to Total	Miles per 100
	Official	Mileage	Square Miles
State	Mileage	in U.S.	of Territory
Illinois	.12142.96	4.79	21.69
Indiana	. 7479.31	2.96	20.75
Michigan	. 8869.90	3.49	15.42
Ohio	9158.61	3.61	22.48
	37650.78	14.85	
Grand total ¹⁰	.69452.98	27.88	

CENTRAL FREIGHT ASSOCIATION TERRITORY

It will be observed from this tabulation that practically all the states have a density of railroad mileage considerably in excess of 10 miles per 100 square miles of territory. The average for the states west of the Mississippi River is in the neighborhood of 7 miles, which indicates very effectively what room there is for expansion in our railroad system as a whole.

Sources of Traffic

Regarding industrial and commercial activity, it is a well-known fact that the greatest mining and manufacturing enterprises of this country are located in this territory. It is appropriate, at this time, to consider some of the more important items that enter into the heavy freight traffic movement in this territory, in order that the reason for the special adjustments hereinafter described may be appreciated.

Water competition has had little to do with the scale of rates employed in this territory, for aside from that afforded by the Great Lakes, which are usually available from the middle of April to the middle of October, and by the ocean between points on the seaboard, the competition afforded by the other waterways, of which the Ohio

¹⁰ Twenty-eighth Annual Report, Bureau of Railway Statistics.

INTRODUCTION

and Mississippi rivers are the most important, may be regarded as potential, attracting little, if any, other traffic than that which is compelled to move via those channels.

According to the report of the Interstate Commerce Commission relative to the freight traffic movement of the entire United States for the year ending June 30, 1913, 1,144,840,303 tons of freight originated on roads making reports to the Interstate Commerce Commission in eastern, western, and southern territories.

This tonnage was distributed as follows:¹¹

Products of agriculture	214, 541, 542
Products of animals	43,977,630
Products of the mines	-881,160,472
Products of the forest	150,783,578
Manufacturers	259,872,837
Merchandise	51,649,606
Miscellaneous	78,606,604
Total tens	1 680 592 269

Of this tonnage, 50 per cent moved over the lines in Official Classification Territory, the traffic being assigned to the following grand divisions and subdivisions, the first of which was grouped as follows:

The products of agriculture are as follows:

Grain	-33,560,998
Flour	10,405,707
Other mill products	9,214,938
Hay	6,190,764
Тораесо	609,366
Cotton	1,952,174
Fruits and vegetables	18,570,008
Other products of agriculture	3,978,446
	84,482,391

The tonnage of products of animals was distributed in the following manner:

"Twenty-eighth Annual Report, Bureau of Railway Statistics.

FREIGHT RATES

Live stock	5,965,944
Dressed meats	3,864,129
Other packing-house products	2,817,396
Poultry, game, and fish	1,352,017
Wool	627,764
Hides and leather	1,920,964
Other products of animals	4,852,831
•	
Total	21,401,045

The products of mines constituted the greatest amount of tonnage for any of the single subdivisions and were distributed as follows:

Anthracite coal	115,884,146
Bituminous coal	313,347,414
Coke	38,502,745
Ores	41,257,363
Stone, sand, and other like products	67,919,391
Other products of mines	7,907,919
Total	584 818 978
10tal	001,010,010

The tonnage derived from forest products was assigned as follows:

Lumber Other products of forests	41,212,566 12,392,548
Total	53,605,114

That manufacturing is engaged in to a greater extent in Official Classification Territory than in other territories is best evidenced by the fact that the amount of tonnage of manufactured articles moving in this territory was over two times as great as that for the balance of the country. The tonnage was distributed as follows:

Petroleum and other	oils	12,141,894
Sugar		3,731,291
Naval stores		617,011
Iron, pig and bloom.		13,511,613
Iron and steel rails		3,241,708

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Other castings and machinery	14,485,301
Bar and sheet metal	22,893,138
Cement, brick, and lime	40,814,615
Agricultural implements	1,029,887
Wagons, carriages, and tools	2,806,311
Wines, liquors, and beers	3,172,048
Household goods and furniture	1,919.722
Other manufactures	52,128,916
-	
Total	172,493,455
Maushandia	39 155 369
Migcellengeng	45 449 700
miscentaneous	40,442,100
Grand total (in tons)	1,001,399,052

With such an immense amount of traffic it is only natural that the rates in this territory have been and are on a lower basis than obtains in other sections of the country. In the subsequent chapters it is the author's purpose to set forth the various adjustments or bases for rate construction that are employed in making the rates on which the greater part of this tonnage is moved.

CHAPTER I

INTRASTATE RATES

IN GENERAL

Before taking up the territorial and interterritorial adjustment of rates, attention will be given to intrastate rates in those states where the state commissions have provided scales. It will be noted that fewer rates have been prescribed by the state regulating bodies in this territory than in Western and Southern territories.

The scale of rates prescribed by the Illinois Commission is of considerable importance because of the great amount of traffic having its origin and destination in that state. However, a considerable amount of traffic destined to points in the Southeast moves from Chicago and related points via Cairo, Ill., and other Ohio River Cross-In such cases it will be seen that the intrastate ings. adjustment may have an important effect on the making of interstate rates.

The only states in this territory prescribing complete tables of distance rates are Illinois and Michigan.

TLLINOIS

The Illinois scale provides for ten classes numbered from 1 to 10, inclusive, and is governed by the Illinois classification issued by the public utilities commission of that state.

A comparison of the Illinois rates with the intrastate rates in Michigan¹ and the rates in Central Freight Association Territory² shows the C. F. A. rates to be somewhat

¹See Table 2. ²See Table 3.

higher. It is an interesting bit of history that in 1905 and 1906 the Illinois Railroad and Warehouse Commission reduced its rates because they were higher than the Central Freight Association scale. In fact, the rates from points in Indiana to St. Louis were much lower than those from Chicago to St. Louis. Consequently, a complaint was brought before the Illinois Commission by the shipping interests of Chicago and other Illinois cities, which resulted in a substantial reduction in the existing rates and in removing the discrimination complained of. By order of the Interstate Commerce Commission the C. F. A. rates were increased by 15%, bringing the rates above those of the Illinois mileage scale.

(a) Classification of Carriers

In the application of the schedule set forth in Table 1. the carriers operating in the state are divided into two classes, namely, Class A and Class B. Class A includes the more important lines in the state, which are as follows:

- Atchison, Topeka & Santa Fe Ry. Baltimore & Ohio R. R.
- Baltimore & Ohio Southwestern
- R. R. Bêlt Ry. of Chicago

- Chicago & Alton R. R. Chicago & Eastern Illinois R. R. Chicago & Erie R. R. Chicago and North Western Ry. Chicago & Western Indiana R. R.
- Chicago, Burlington & Quincy R. R.
- Chicago Great Western R. R. Chicago Heights Terminal Transfer R. R.
- Chicago Junction Ry.
- Chicago, Milwaukee & St. Paul Ry. Chicago, Rock Island & Pacific Ry.
- Chicago Short Line Ry.
- Chicago Terminal Transfer R. R.
- Cincinnati, Indianapolis & Western R. R.
- Cleveland, Cincinnati, Chicago & St. Louis Ry.
- Elgin, Joliet & Eastern Ry. Grand Trunk Western Ry.
- Illinois Central R. R.

- Lake Erie & Western R. R.
- Macoupin County Ry. Michigan Central R. R.
- Minneapolis, St. Paul & Sault Ste. Marie Ry.
- Mobile & Ohie R. R.
- New York Central R. R.
- New York, Chicago & St. Louis R. R.
- Pennsylvania Co.
- Peoria & Pekin Union Ry.
- Pittsburgh, Cincinnati, Chicago & St. Louis Ry.
- Pittsburgh, Fort Wayne & Chicago Ry.
- St. Louis. Iron Mountain & Southern Ry.
- St. Louis Merchants Bridge Terminal Rv.

Southern Ry.

- Terminal R. R. Association of St. Louis
- Terre Haute & Indianapolis R. R. Wabash Rv.

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These roads are compelled by law, in publishing their rates, not to exceed the rates shown in Table 1.

Class B includes the smaller lines:

Calumet Western Ry.	Iowa Central Ry.
Chicago & Illinois Midland Ry.	Kankakee & Seneca R. R.
Chicago & Illinois Western R. R.	La Salle & Bureau County R. R.
Chicago, Peoria & St. Louis R. R.	Litchfield & Madison Ry.
Chicago, Peoria & Western Ry.	Louisville & Nashville R. R.
Chicago Union Transfer Ry.	Peoria Railway Terminal Co.
Chieago, West Pullman & Southern	Quincy, Omaha & Kansas City R. R
R. Ř.	St. Louis & O'Fallon Ry.
Davenport, Rock Island & North-	St. Louis, Troy & Eastern R. R.
western Ry.	Terre Haute & Peoria R. R.
East St. Louis Connecting Ry.	Toledo, Peoria & Western Ry.
Galesburg & Great Eastern R. R.	Toledo, St. Louis & Western R. F
Illinois Northern Ry.	Toluca, Marquette & Northern R. J
Illinois Southern Ry.	Wabash, Chester & Western R. R.
Illinois Terminal R. R.	Waukegan & Mississippi Valley Ry
Illinois Valley Belt R. R.	
Olars Dalas includes the ol	actuic interruphan lines The

Class B also includes the electric interurban lines. The roads in this class are entitled to add 10 per cent to the rates shown in Table 1 for Classes 1 to 5, inclusive, and 5 per cent to the rates for Classes 6 to 10, inclusive, and to such commodity rates as may be established.

In the event that the name of any of the companies is changed or that control is assumed by another line, that fact will not serve to change the class of such railroad or railroads unless sanctioned by the Public Utilities Commission of Illinois.

	MATES FOR CLASS-A ROADS														
							RATES' IN CENTS PER 100 POUNDS								
DISTANCES						Classes									
						1	2	3	4	õ	6	7	8	9	10
2	miles	and	lun	der		7.5	6.	5.3	4.5	3.6	2.5	2.3	2.2	1.9	1.8
4	66	66	OV	er 2	miles	9.	7.5	6.8	5.3	4.2	3.2	2.9	2.8	2.4	2.2
ĥ	" "	66	66	4		10.5	9.	7.5	6.	4.8	4.2	3.9	3.7	3.2	2.9
10	66	66	66	6	"	12.	10.5	9.	6.8	5.4	5.1	4.8	4.2	3.7	3.4
15	66	46	66	10	66	13.5	12.	10.5	7.5	6.	5.9	5.6	4.7	4.	3.5
20	66	66	66	15	66	15.	13.5	11.3	8.3	6.6	6.3	6.	5.1	4.2	3.8
25	66	66	66	20	66	16.5	15.	12.	9.	7.2	6.8	6.5	5.6	4.4	4.
30	66	"	66	25	66	18.1	15.8	12.8	9.6	7.7	7.2	6.9	6.	4.7	4.2
35	66	66	46	-30	"	19.6	16.5	13.5	10.2	8.1	7.6	7.1	6.3	4.8	4.4
40	66	66	66	35	66	21.1	17.3	14.3	10.5	8.4	8.	7.8	6.5	5.	4.5
45	66	66	66	40	66	22.6	18.1	15.	10.9	8.7	8.5	8.2	6.7	5.2	4.7
50	66	66	"	45	66	23.3	18.8	15.8	11.3	9.	8.7	8.6	6.9	5.4	4.9

TABLE 1 RATES FOR CLASS-A ROADS

¹ Governed by the Illinois Classification.

INTRASTATE RATES

TABLE 1—Continued RATES FOR CLASS-A ROADS

						RATES' IN CENTS PER 100 POUNDS											
	1)ist	AN	CES			Classes										
						1	2	3	4	5	6	7		0	10		
55	66	6	66	50	**	1 24.1	19.6	6 16 5	5 11	7 9	3 0 0	2 80	7	1 5	6 5		
60	44	66	66	55	66	24.8	20.3	17.3	12	9.0	6 9	5 0	7	2 5 0	0 0. 2 59		
65	66	66	66	50	66	25.6	21.1	18.	12.4	4 9.9	9 - 9.2	7 9 3	7	5 6	5 0.2		
70	66	66	66	-65	• 6	26.3	21.8	3 18.4	12.8	\$ 10.9	2 9.9	9.6	5 7 7	7 6	1 5 5		
75	66	66	6.6	70	66	27.1	22.6	18.8	3 13.5	2 10.3	5 10.2	2 9.7	7.9	6.1	3 56		
80	66	66		75	66	27.8	23.3	19.	13.	5 10.8	3 10.7	10.	3 8.	6.4	1 5.8		
85	66	66	• 6	- 80	66	,28.6	23.7	19.2	13.9) 11.1	111.	10.5	8.2	6.5	5 5.9		
90	66	66	66	-85	66	29.3	24.1	19.5	14.3	3 11.4	11.2	2 10.7	8.4	6,	6.		
95	66	66	66	-90	66	30.	24.4	19.7	14.7	11.7	11.5	10.8	8.6	6.9	6.2		
100	6.6	66	"	9.5		30.8	24.8	19.9) 15.	12.	11.7	11	8.8	3 7.	6.3		
105	66	64	66	100		31.6	25.2	20.2	15.3	3 12.3	3 11.9	11.2	9.	7.1	6.4		
110				105		32.3	25.6	20.4	15.6	5 12.5	5 12.2	11.4	9.2	7.3	6.6		
115				110		33.1	25.9	20.6	15.9) 12.8	3 12.4	11.6	9.4	. 7.5	6.7		
120				115		33.8	26.3	20.8	16.2	2 13.	12.6	11.7	9.5	7.6	6.8		
125				120		34.2	26.7	21.1	16.5	13.2	12.7	11.9	9.7	7.8	3 7.		
130	"			125		34.0	21.1	21.3	16.8	5 13.5	12.9	12.1	9.9	7.9	7.1		
130	66		66	100		00.	27.0	21.5	17.1	13.7	13.1	12.2	10.1	8.	7.2		
140	44	66	66	140	66	00.0	21.8	21.7	17.4	14.	13.3	12.4	10.3	8.2	7.4		
140	66	66	46	140	66	361	20.2	24.	11.1	14.2	13.4	12.5	10.4	8.3	1.5		
155	66	66	66	150	66	36.5	20.0	22.2	10.1	14.4	: 13.0 : 19.0	12.0	10.0	8.4	1.0		
160	66	66	66	155	66	36.9	20.0	22.4	18.2	14.0	10.0	12.8	10.7	0.0	1.1		
165	66	66	68	160	48	37 1	29.5	22.0	18.5	14.7	14.	12.9	10.9	0.0	7.0		
170	66	66	46	165	66	37.5	29.8	23.1	18.7	14.0	14.2	121	111	0.1	1.0		
175	•6	*6	•6	170	44	37.7	30.1	23.3	18.8	15.	14.0 14.5	13.2	11.1	8.0	81		
180	"	66	66	175	66	38.	30.4	23.5	18.9	15.2	14.6	13.3	11.2	9	82		
185	66	66	66	180	66	38.4	30.7	23.8	19.1	15.3	14.7	13.4	11.5	9.1	8.3		
190	66	٤.	" "	185	64	38.7	31.	24.	19.2	15.4	14.9	13.5	11.7	9.2	8.4		
195	66	66	* 6	190	66	38.9	31.3	24.2	19.4	15.5	15.	13.6	11.8	9.3	8.5		
200	66	66	64	195	66	39.1	31.6	24.4	19.6	15.6	15.2	13.7	12.	9.4	8.6		
210	64	64	66	200	66	39.6	32.	24.8	19.9	15.9	15.4	13.9	12.2	9.5	8.7		
220	66	66	66	210	66	40.2	32.5	25.2	20.2	16.1	15.5	14.1	12.4	9.7	8.8		
230	66	66	56	220	66	40.7	32.9	25.6	20.5	16.4	15.7	14.2	12.6	9.9	8.9		
240		*6	66	230	··-	41.2	33.4	25.9	20.8	16.6	15.9	14.4	12.7	10.1	9.1		
250	£6	66	66	240		41.7	33.8	26.3	21.1	16.8	16.1	14.6	12.9	10.3	9.3		
260			66	200		42.3	34.3	26.7	21.4	17.1	16.3	14.8	13.1	10.4	9.4		
270		~~		260		42.8	34.7	27.1	21.7	17.3	16.4	15.	13.3	10.6	9.5		
280		66		210	66	43.3	35.2	27.5	22.	17.6	16.6	15.1	13.5	10.7	9.6		
290	66	66		280	44	43.8	30.0	21.8	22.3	17.8	16.8	15.3	13.7	10.9	9.8		
220	66	66	66	200	66	44.4	30.1	28.2	22.0	18.1	17.	10.0	13.9	11.	9.9		
340	66	66	44	220	66	45.0	276	29.	20.	10.4	17.4	10.	14.1	11.2	10.1		
360	66	66	65	340	· · ·	40.9	281	20.5	20.0	10.0	10.9	10.4	14.4	11.0	10.4		
380	66	66	62	360	66	40.0	20.1	21.9	20.0	10.1	10.0	10.9	14.7	11.0	10.7		
400	¢ (44	66	380		481	30.0	31.6	24.4 9.1 g	10.0	10.0	17.6	15.2	12.2	11.2		
420	66	66	+6	400	44	48.5	40.2	32	25.1	20	10.1	17.9	15.7	19.9	11.5		
440	66	66	66	420	44	48.9	40.5	32.3	25.4	20.3	19.7	18	15.9	131	11.8		
460	66	66	68	440	66	49.3	40.8	32.7	25.7	20.5	20.	18.2	16.2	13.4	12.1		
480	66	66	66	460	ii i	49.6	41.1	33.1	26.	20.8	20.3	18.5	16.6	13.8	12.4		
500	66	66	66	480	66	50.	41.4	33.5	26.3	21.1	20.5	18.8	16.9	14.1	12.6		
															-		

¹ Governed by the Illinols Classification.

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(b) Application of Rates

In formulating rate schedules under this statute the carriers, so far as their local rates are concerned, ascertain the distance from one point to another and apply the scale of rates prescribed for that distance for the class of carrier that is engaged.



DIAGRAM 1

(c) Joint Rates

In many instances joint rates are made on single-line mileage combinations and not by the application of the continuous-mileage scale. For example, taking Diagram 1 to illustrate the point, the distance from E to C is shown as 60 miles and that from C to D as 120 miles. Assuming that the respective hauls were made over separately

INTRASTATE RATES

owned and operated Class-A roads, the through rates would be determined as follows:³

 $\begin{array}{c} \text{Classes} & \dots & 1 & 2 & 3 & 4 & 5 & 6 & 7 & 8 & 9 & 10 \\ \text{E to C} & (60 \text{ mi.}) & 24.8 & 20.3 & 17.3 & 12. & 9.6 & 9.5 & 9.1 & 7.3 & 5.8 & 5.2 \\ \text{C to D} & (120 \text{ mi.}) & 33.8 & 26.3 & 20.8 & 16.2 & 13. & 12.6 & 11.7 & 9.5 & 7.6 & 6.8 \\ & & (180 \text{ mi.}) & & & & & & & & & \\ \end{array}$

This practice results in rates which are materially higher than those that would obtain were the scale for 180 miles employed.

(d) Equalization of Competition

Competition of railways and transportation routes sometimes occasion a disregard of this procedure, as the lines having the longer hauls are compelled to meet or make the same rates as those established by the direct line and to reduce their rates in order to meet the competition of the short line.

For illustration, by again referring to Diagram 1 we see that the distance via the short line between A and D is 150 miles, while by way of C it is 240 miles. If the line operating via C chooses to meet the competition of the short line, the rate to any point on the long route between A and D must not exceed the A-to-D rate of the direct line, or the 150-mile scale. It might so happen that the rate via the short line from A to D had been lowered by water competition,

that is, that the charges via the river were so much lower than the rates via the direct rail lines under the regular mileage scale that the direct line would be compelled to reduce its figures materially in order to obtain a share of the business. In this event the carrier or carriers having the circuitons route might not be justified in meeting the competitive rates of the

^{&#}x27;Unless otherwise specified, the rates shown are in cents per 100 pounds.

18 FREIGHT RATES—OFFICIAL TERRITORY

short line, unless D were a point, with sufficient traffic in sight to offset the loss occasioned by reducing its rates to the intermediate points.

It frequently occurs that the advantage in location is so overwhelming that it cannot be met by the indirect line. Take, for example, the distance from E to H via the direct line, which is shown on the diagram as 25 miles, and contrast it with the circuitous route via C from E to H, a distance of 125 miles. In such a case it would be policy for the indirect route to forego the traffic and to maintain the regular mileage scale at all points between E and H via C.

In such instances traffic destined to certain points between C and H could be forwarded from E via H at lower joint rates than would obtain under the application of the local scale via the circuitous routes. As an example, assume that there is a point X located between C and H which is 10 miles distant from H; the firstclass rate would be made as follows:

				VIA	н	(C	OM	BIN	IAT	ION	R	ATE)				
E H	to	H X	(25)	mi.).	•••	••	•••	•••	•••	•••	• •	•••		•••	•••	$ \frac{16}{12} $.5
E	to	X				•••				Fhr	ou	gh	rate	e via	ı H	28	.5
				VIA	С	(0	CON	ITI	JUC	US	RA	TE)				
E C	to to	C X	(60 (55	mi.) mi.)													
E	to	x	(115	mi)						Th	ro	110}	n ra	te v	ia C	33	.1

Where competitive influences do not exist, such as on the line from A to E, the rates are made or scaled in conformity with the distance basis established by the state commission; that is, the figures prescribed for that distance are not exceeded at any station intermediate to, and including, E.

INTRASTATE RATES

MICHIGAN

As disclosed by the *Atlas of Railway Traffic Maps*, the upper part, or so-called upper peninsula, of the state of Michigan lies within Western Classification Territory, the southern part or southern peninsula being in Official Classification Territory, and as this work has to deal with that adjustment, the exposition of rates obtaining in this state will be devoted largely to the Official Classification rate structure.

Practically everyone is well acquainted with the fact that in the northern peninsula lie some of the richest copper and ore deposits to be found in the world, and as the Straits of Mackinac mark the terminus of the Official Classification line, the Western Classification Territory lines have extended their classification adjustment eastward to the straits, as it is more logical for them to do than to adopt the Official Classification of the southern peninsula lines.

While the ore and copper deposits previously mentioned account for the greater part of the tonnage of this state, coal is also produced in considerable quantity; but in the southern peninsula, particularly the northern part thereof, there is little or no traffic of consequence. The lumber interests long ago denuded Michigan forests of available timber, and at the present time this section is popularly viewed as a recreation spot or playground attracting thousands of persons annually who enjoy the effect of the bracing climate and the recreation afforded by the innumerable lakes with which the territory is dotted.

The leading manufacturing cities of Michigan are Grand Rapids, Lansing, Saginaw, Battle Creek, Albion, Traverse City, Muskegon, Port Huron, Wyandotte, and Detroit, and from an inspection of the *Atlas of Railway* *Traffic Maps,* it will be noted that these points are for the most part located in the southern tier of counties.

It is true that Michigan is famed as a fruit raising state, but the fact that the movement of this commodity is seasonal does not occasion any appreciable effect upon the general class-rate structure which has been adopted by that state.

In order to minimize these conditions and to insure a fair return without undue prejudice to shippers, the Michigan carriers, in 1895, promulgated a scale of rates which are slightly higher for corresponding distances than are the rates obtaining under the Central Freight Association scale. This scale was based on 5-mile rates of progression from 5 to 100 miles, inclusive; on 10-mile rates of progression to and including 250 miles and on 25-mile rates of progression to and including 450 miles, the maximum distance being indicated as 500 miles. The rates range from 11 cents on first-class traffic for 5 miles to 55 cents per 100 pounds for 500 miles, and this scale had been in effect as a whole for many years, although in specific instances the rates had been advanced in one case and reduced in others.

Concurrent with the advance in freight rates throughout Official Classification Territory sanctioned by the Interstate Commerce Commission recently, the railroad commission of the state of Michigan authorized a general readjustment of the existing class rates obtaining in that state. The rates currently in effect are reproduced in Table 2A.

In sanctioning this increase, however, the Michigan commission, owing to the fact that it has been alleged that many points in the state were enjoying preferential rates occasioned by the disregard of distance in some instances, required carriers to recheck the entire state rate structure, with the result that the larger portion of the advance in rates in Michigan is due to this recheck.

							0.00.0
	Bay View		305 324 324 235 195 34 34	2255 2255 176 384 384	270 249 127 193 193 221 221	234 172 123 123 224 224	201 221 221 221
	Bayport		167 180 21 124 176	129 129 129 129 129 129 129	$155 \\ 157 \\ 206 \\ 103 \\ 99 \\ 99 \\ 103 \\ $	$\frac{212}{152}$	305 305
	Bay City		134 146 19 66 127	$134 \\ 172 \\ 52 \\ 137 \\ 126 $	$104 \\ 77 \\ 168 \\ 69 \\ 42 \\ 42 \\ 42 \\ 42 \\ 42 \\ 42 \\ 42 \\ 4$	$\frac{170}{120}$	130 59 216 64
	Battle Creek		$53 \\ 76 \\ 141 \\ 196 \\ 229 \\ $	$25 \\ 48 \\ 126 \\ 191 \\ 256 $	$221 \\ 221 \\ 110 \\ 172 $	$\begin{array}{c} 9\\205\\183\\161\\145\\145\end{array}$	130 162 255 167
	Barryton		$157 \\ 200 \\ 114 \\ 168 \\ 127 $	$ \begin{array}{c} 140 \\ 50 \\ 213 \\ 228 \\ 228 \\ 228 \\ \end{array} $	150 135 132 67 143 143 143	185 178 156 73	$145 \\ 102 \\ 134 \\ 224 \\ 140 $
	Baldwin		187 237 132 132 186 107	$177 \\ 119 \\ 101 \\ 231 \\ 231 \\ 246 $	$ \begin{array}{r} 191 \\ 108 \\ 108 \\ 108 \\ 161 \\ 161 \\ \end{array} $	$\begin{vmatrix} 152\\ 196\\ 174\\ .73 \end{vmatrix}$	$ \begin{array}{c} 161 \\ 152 \\ 153 \\ 153 \\ 153 \\ 153 \\ \end{array} $
	Bad Axe	_	$184 \\ 179 \\ 42 \\ 143 \\ 194 $	181 228 104 104 203 203	$\frac{146}{124}$ $\frac{124}{121}$ $\frac{121}{118}$	199 152 174 174 156 15	$ \begin{array}{c} 183 \\ 80 \\ 21 \\ 224 \\ 118 \\ 118 \\ \end{array} $
	əldas2 u.A		$\begin{array}{c} 209\\ 221\\ 94\\ 22\\ 222\\ 202\end{array}$	$ \begin{array}{c} 192 \\ 252 \\ 212 \\ 212 \\ 51 \\ 51 \\ \end{array} $	179 152 255 144 144 148 148	211 152 196 178	205 75 134 172 139
:0	Augusta		$63 \\ 86 \\ 236 \\ 212 \\ $	200233	$\begin{array}{c} 93\\ 120\\ 212\\ 211\\ 211\end{array}$	211 199 185	$\begin{array}{c} & 0 \\ 170 \\ 212 \\ 254 \\ 218 \\ 218 \end{array}$
LNI	Au Gres	ES	$ \begin{array}{c} 176 \\ 188 \\ 188 \\ 31 \\ 31 \\ 169 \\ 169 \\ \end{array} $	$ \begin{array}{c} 159 \\ 219 \\ 179 \\ 100 \\ 100 \end{array} $	146 119 221 111	$\begin{array}{c} 211 \\ 48 \\ 118 \\ 161 \\ 143 \\ 143 \end{array}$	$ \begin{array}{c} 172 \\ 42 \\ 99 \\ 221 \\ 106 \\ 106 \end{array} $
I PC	Ashley	MIL	$ \begin{array}{c} 104 \\ 119 \\ 82 \\ 135 \\ 135 \\ 159 \\ \end{array} $	$105 \\ 128 \\ 181 \\ 195 \\ 195 $	83 56 160	$139 \\ 121 \\ 108 \\ 121 \\ 108 $	$1103 \\ 103 \\ 103 \\ 61 \\ 61 \\ 61 \\ 61 \\ 61 \\ 61 \\ 61 \\ 6$
TOIT	Arcadia	N	$\begin{array}{c} 247\\ 280\\ 168\\ 246\\ 246\\ 103\end{array}$	$\begin{array}{c} 237\\ 179\\ 143\\ 292\\ 306\\ 306 \end{array}$	244 217 160 221	$\begin{array}{c} 212\\ 255\\ 225\\ 60\\ 132\end{array}$	221 168 127 131
E S S	③Annpere	NCE	82 63 136 143 211	$ \begin{array}{c} 74 \\ 74 \\ 73 \\ 73 \\ 203 \\ 203 \\ 203 \\ \end{array} $	27 217 56 119	$152 \\ 152 \\ 134 \\ 173 \\ 135 \\ 135 $	77 77 157 249 118
BLI EN J	Ann Arbor	STA	$ \begin{array}{c} 55\\ 36\\ 170\\ 239\\ 239 \end{array} $	$ \begin{array}{c} 59 \\ 125 \\ 223 \\ 230 \\ 230 \\ \end{array} $	$27 \\ 244 \\ 83 \\ 83 \\ 83 \\ 146$	93 179 146 191 150	83 104 155 155 145
LT.A	snsciA	IQ	$\begin{array}{c} 260\\ 272\\ 73\\ 73\\ 155\end{array}$	$ \begin{array}{c} 243 \\ 303 \\ 263 \\ 263 \end{array} $	$1005 \\ 200$	$296 \\ 51 \\ 203 \\ 246 \\ 228 \\$	$\begin{array}{c} 256 \\ 126 \\ 184 \\ 189 \\ 189 \\ 189 \\ 189 \\ 189 \\ 189 \\ 189 \\ 189 \\ 189 \\ 189 \\ 180 \\$
BE	Almont		245 245 258 207 254	$\frac{246}{304}$ 164 263	$235 \\ 232 $	$\begin{array}{c} 200\\ 212\\ 201\\ 231\\ 231\\ 231\\ 213\\ 213\\ 213\\ 213\\ 21$	$\begin{array}{c} 1191 \\ 1137 \\ 129 \\ 384 \\ 384 \\ 175 \end{array}$
EAGE	smlA		$121 \\ 136 \\ 65 \\ 118 \\ 142 $	122 140 164 178	$1100 \\ 143 \\ 173 \\ 143 \\ 17 \\ 94 \\ 94 \\ 94 \\ 94 \\ 94 \\ 94 \\ 94 \\ 9$	101 104 101 50	176 176 176 176
MILE	negəllA		$\begin{array}{c}106\\153\\243\\243\\191\end{array}$	67 140 304 303	1125 1179 1179 1179 1128	252 252 228 110 110	$\begin{array}{c} 48 \\ 172 \\ 226 \\ 225 \\ 225 \\ 200 \end{array}$
1-4	noidlA		37 60 147 183 255	$67 \\ 122 \\ 246 \\ 246 \\ 243 $	59 74 237 105 105	34 192 181 177 140	25 134 168 168 289 289 289 289 289 289 289 289 289 28
	sdlA		$ \begin{array}{c} 260 \\ 288 \\ 146 \\ 193 \\ \end{array} $	$ \begin{array}{c} 255 \\ 191 \\ 142 \\ 254 \\ 254 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 101 \\ $	211 239 159 159	$202 \\ 202 \\ 104 \\ 107 $	229 176 34 176 176 149
	Alabaster		$ \begin{array}{c} 200 \\ 212 \\ 85 \\ 193 \\ \end{array} $	$ \begin{array}{c} 1183 \\ 243 \\ 207 \\ 207 \\ 73 \\ 73 \end{array} $	$ \begin{array}{c} 1170 \\ 143 \\ 246 \\ 135 \\ 31 \end{array} $	236 236 143 143 168	195 195 195 130
	Akron		146 159 85 146	147 205 65 149 149	1130 1136 82 82 82	94 182 182 182 182	141 191 235 76 76
	Adrian		$\begin{array}{c} 33 \\ 159 \\ 212 \\ 288 \\ $	$ \begin{array}{c} 60 \\ 60 \\ 153 \\ 126 \\ 258 \\ 258 \\ 272 \\ 72 \end{array} $	36 36 119 119 119	221 221 237 237 237	76 146 185 324 185
	Addisen Jet.		33 260 260	37 37 106 121 245 245	247 82 104 104	63 184 187 187	172
	en	/	let.		or e		reek. / v
	etwo		son J an aster	on	Arbo Arbo dia.	able Sable Axe Iwin.	City City Port Viev
	B	And	Addi Adri Akro Alab	Allbi	Ann Ann Arca Ashl	Aug Au S Bad Bad	Bay Bay Bay Bay Bay
			1		1	1	1

22 FREIGHT RATES—OFFICIAL TERRITORY

To serve this end, the carriers tabulated the result of their labor in a publication which, although in the form of a basing book, is filed with the Michigan commission and the Interstate Commerce Commission and is used as a

		CLASSES										
DISTANCE	1	2	3	ر 4	5	6	R25	R26	R28			
5 miles 10 miles 15 miles 20 miles 25 miles 30 miles 35 miles 40 miles 55 miles 50 miles 50 miles 50 miles 50 miles 50 miles 60 miles 90 miles 90 miles 20 miles	23.55 224.55 227 229 229 323 325 5555 3675 405555555 55555555555555555555555555555	$\begin{array}{c} 20\\ 21\\ 22\\ 23\\ 24\\ 25\\ 26\\ 27\\ 28\\ 29\\ 30\\ 51.5\\ 32\\ 33.5\\ 34.5\\ 39.5\\ 44.5\\ 55\\ 44.5\\ 55\\ 60\\ \end{array}$	$\begin{array}{c} 15.5\\ 16.5\\ 17.5\\ 19\\ 19.5\\ 20.5\\ 22.2\\ 23\\ 23.5\\ 24.5\\ 24.5\\ 26.5\\ 31\\ 35\\ 37\\ 39.5\\ 43\\ 47\end{array}$	$\begin{array}{c} 12\\ 12.5\\ 13\\ 13.5\\ 14\\ 14.5\\ 15.5\\ 16\\ 16.5\\ 17\\ 18\\ 18.5\\ 19\\ 20\\ 20.5\\ 23.5\\ 29.5\\ 32.5\\ 29.5\\ 32.5\\ 55\\ 55\\ 55\\ 55\\ 55\\ 55\\ 55\\ 55\\ 55\\ $	8.5 9 9.5 10 10.5 11 11.5 12.5 12.5 13 13.5 14 16 18.5 19.5 20.5 22.5 24.5	6.5 7 7 7.5 8 8 8.5 9 9.5 10 10 10 10.5 11 11 13 14.5 15 16 18 20	$\begin{array}{c} 17\\ 18\\ 520.5\\ 20.5\\ 21.5\\ 22\\ 23\\ 24\\ 24.5\\ 25.5\\ 26\\ 27\\ 28.5\\ 29.5\\ 33.5\\ 38\\ 40\\ 42\\ 47\\ 51\\ \end{array}$	$\begin{array}{c} 12.5\\ 13\\ 13\\ 14\\ 15\\ 15.5\\ 17\\ 17.5\\ 18.5\\ 19\\ 19.5\\ 20\\ 21\\ 21\\ 25\\ 28\\ 29.5\\ 31.5\\ 375 \end{array}$	$\begin{array}{c} 13\\ 13.5\\ 14\\ 15\\ 16\\ 16.5\\ 17.5\\ 18\\ 18.5\\ 19\\ 20\\ 20.5\\ 21\\ 22\\ 22.5\\ 26\\ 29\\ 31\\ 33\\ 36\\ 39\\ 5\end{array}$			
500 miles 500 miles 700 miles 200 miles	76.5 83	65 70.5 75 5	51 55.5 59	38 41.5 44 5	26.5 29.5 31	21.5 23 245	55.5 60 64	41 44.5 47	42.5 46.5 49.5			

TABLE 2A Michigan Class-Rate Scale

¹Wherever it is required to construct rates that are a percentage of other rates (except when otherwise provided), fractions of less than five-tenths of a mill are disregarded, and five-tenths of a mill and over are counted as one mill. This applies both intrastate and interstate. tariff. This publication indicates, in addition to the rates set forth in the preceding table, the distances between various junction points throughout the state, and the information is set forth in the manner indicated by the excerpt taken from the publication shown in Table 2.

Points enumerated in the tariff are basing points; points not shown are designated as local points, and it is well to consider at this time some of the more important rules with respect to the construction of rates under this form.

Rule 1. Rates Between Basing Points.⁴—Rates between basing points will be the mileage scale rates for the distance between the points as shown in the tariff.

Example.—Rates from Alma to Owosso, a distance of 38 miles, will be the rates shown in Table 2A for that distance, which are 32—27—21.5—16—11.5—9.

Rule 2. Rates from Basing Points to Local Points for a One-Line Haul.—Rates from a basing point to a local point located on the same railroad will be the mileage scale rates for the actual distance, except the rates shall not exceed rates to the same point via two or more railroads made in accordance with Rule 4.

Example.—From Kalamazoo to Middleville (a point on the M. C. R. R. between Grand Rapids and Hastings) rates will be computed by using the mileage from Kalamazoo to Hastings, plus the mileage from Hastings to Grand Rapids, resulting in the following: 36.5—31.5—24.5—18.5 —13—10. The rates for the actual Michigan Central mileage were not used in this case because lower rates apply via two lines in accordance with Rule 4.

Rule 3. Rates from Local Points to Basing Points for a One-Line Haul.—Rates from a local point to a basing point located on the same railroad will be the mileage scale rates for the actual distance, except the rates shall not exceed rates from the same point via two or more railroads made in accordance with Rule 5.

Example.—This is the reverse of the Kalamazoo to Middleville example shown under Rule 2.

Rule 4. Rates from Basing Points to Local Points for a

From Freight Tariff 175 Series, issued by Eugene Morris.

Two or More Line Haul.—Rates from a basing point to a local point located between two basing points will be arrived at by using the mileage to that basing point to which the lower mileage is shown in the tariff and adding thereto the mileage from such basing point to the other basing point, subject to the rates to the basing point taking the higher rates as minimum.

Example.—From Otter Lake to Davison (a point on the G. T. Ry. between Lapeer and Flint) rates will be computed by using the mileage from Otter Lake to Lapeer plus the mileage from Lapeer to Flint, resulting in the following: 31-26-20.5-15.5-11-8.3.

Rule 5. Rates from Local Points to Basing Points for a Two or More Line Haul.—Rates from a local point located between two basing points to a basing point will be arrived at by using the mileage from that basing point from which the lower mileage is shown in the tariff and adding thereto the mileage to such basing point from the other basing point, subject to the rates from the basing point taking the higher rates as a minimum.

Example.—This is the reverse of the Otter Lake to Davison example shown under Rule 4.

Rule 6. Rates between Local Points on Same Railroad.— Rates between local points located on the same railroad will be computed on the actual mileage from point of origin to destination as published in individual lines' Tables of Distances, lawfully on file with the state and interstate commissions.

Example.—Rates from Chelsea (a point on the M. C. R. R. between Ann Arbor and Jackson) to Parma (a point on the M. C. R. R. between Jackson and Albion) will be the rates for the actual mileage (32 miles), which are 31—26—20.5—15.5—11—8.3.

Rule 7. Rates from a Local Point on One Railroad to a Local Point on Another Railroad.

Section A. When there is a route between the origin point and the destination point, via which there is only one basing point between them, rates will be arrived at by adding the following:




(1) Mileage from basing point beyond the origin point to the intermediate basing point.

(2) Mileage from the intermediate basing point to the basing point beyond the destination point.

Example.—To ascertain rates from Potterville to Mason, add—

44 "

Rates-33-28-22-16.5-11.5-9.

Section B. Where more than one basing point is located between the origin point and the destination point, rates will be arrived at by the mileage as indicated below, subject to the rates from the basing point on either side of the origin point from which the higher rates apply, computed in accordance with Rule 4 of tariff, as minima:

(1) Mileage from basing point on either side of the origin point to basing point on either side of the destination point, whichever is lower.

(2) Mileage between the two basing points between which the origin point is located.

(3) Mileage between the two basing points between which the destination point is located.

Example.—To ascertain rates from Crofton to Fremont, add—

Mileage—Walton Jct. to White Cloud.....83 miles Kalkaska to Walton Jct.......18 " White Cloud to Muskegon......35 "

136 "

Minimum:-Kalkaska to Fremont, computed in accordance with Rule 4 of tariff, is 168 miles, arrived at as follows:

Kalkaska to White Cloud White Cloud to Muskegon	.133 . 35	miles
	168	66

Rates-48.5-41.5-32.5-24.5-17.5-13.5.

Ohio

A number of years ago the state of Ohio enacted a statute fixing the maximum charge for the transportation of property by freight at 5 cents per ton per mile, to which might be added a reasonable charge for loading and unloading when the service was performed by the carrier.

The burden was consequently placed upon the carriers to see that their schedules were adjusted in conformity with this law and that the rates charged for the movement of property between given points did not exceed the maximum prescribed by the statute. In other words, the state did not prescribe a scale of rates, as is the case in Michigan and Illinois, but simply established a maximum charge per ton per mile which the carriers were required to observe.

This statute, however, has been repealed by the Ohio legislature. The rates are now established by the carriers themselves but are subject to the approval by the public utilities commission of the state.

INDIANA

The only remaining state included within Central Freight Association Territory is Indiana. While this state has a very active railroad commission, there never has been statutory provision as to the maximum class rates applicable within the state. The rates established by the carriers are subject to revision and approval by the state railroad commission. Consequently, the Central Freight Association scale is applied generally throughout the state on intrastate and interstate traffic. Competitive conditions have led to the adoption of the Central Freight Association scale as applied to traffic in western New York and Pennsylvania adjacent to the so-called Western Termini.

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CHAPTER II

RATES WITHIN CENTRAL FREIGHT ASSOCIATION TERRITORY

THE CENTRAL FREIGHT ASSOCIATION SCALE

So much mention has been made of the so-called Central Freight Association scale in connection with the intrastate-rate adjustments that it seems desirable to devote this chapter to a consideration of this very important rate structure.

Rates within Central Freight Association Territory. except on intrastate traffic previously discussed, are based very generally on the Central Freight Association scale of class rates which are shown in Tables 3A, 3B, and 3C.

*TABLE 3A

DISTANCES	1	2	3	4	5	1 6
5	18.5	15.5	12.5	9.5	6.5	1 5
10	19.5	16.5	13	10	7	5.5
15	20.5	17.5	13.5	10.5	7	5.5
100	34.5	29.5	23	17.5	12	9.5
110	35.5	30	24	18	12.5	10
120	37	31.5	25	18.5	13	10.5
200	46	39	31	23	16	13
210	46.5	39.5	31	23.5	16.5	13
230	47.5	40.5	32	24	16.5	13.5
300	52	44	35	26	18	14.5
320	53	45	35.5	26.5	18.5	15
400	57.5	49	38.5	29	20	16
420	58.5	49.5	39	29.5	20.5	16.5
440	60	51	40	30	21	17
480	62	52.5	41.5	31	21.5	17.5
500	63.5	54	42.5	32	22	18
520	64.5	55	43	32.5	22.5	18
600	69	58.5	46	34.5	24	19.5
620	70	59.5	47	35	24.5	19.5
660	72.5	615	48 5	36.5	25.5	20.5

COMMISSION ZONE-A SCALE

¹When a rate is desired for a distance not given in the foregoing scale, use the rate for the next greater distance. ²Governed by the Official Classification.

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*TABLE 3B

COMMISSION ZONE-B SCALE

DISTANCES	1	\cdot 2 \cdot) 3 .	4 1	1 5 .	' 6
5	20.5	17.5	13.5	10.5	7	5.5
10	22	18.5	14.5	11	7.5	6
15	23	19.5	15.5	11.5	8	6.5
100	37	31.5	25	18.5	13	10.5
110	38	32.5	25.5	19	13.5	10.5
120	39	33	26	19.5	13.5	11
200	48.5	41	32.5	24.5	17	13.5
210	49	41.5	33	24.5	17	13.5
230	50	42.5	33.5	25	17.5	14
300	54	46	36	27	19	15
320	55	47	37	27.5	19.5	15.5
400	60	51	40	30	21	17
420	61	52	41	30.5	21.5	17
440	62	52.5	41.5	31	21.5	17.5
480	64.5	55	43	32.5	22.5	18
500	65.5	55.5	44	33	23 ·	18.5
520	66.5	56.5	44.5	33.5	23.5	18.5
600	71.5	61	48	36	25	20
620	72.5	61.5	48.5	36.5	25.5	20.5
660	-75	64	50.5	37.5	26.5	21

*TABLE 3C

COMMISSION ZONE-C SCALE

and the second sec						
DISTANCES	1	2	3	4	5	6
5	24.5	21	16	12.5	8.5	6.5
10	26	22	17	13	9	7
15	27	23	18	13.5	9.5	7.5
100	41	35	27.5	20.5	14.5	11.5
110	42	36	28	21	15	11.5
120	43	36.5	28.5	21.5	15	12
200	52.5	44.5	35	26.5	18.5	14.5
210	53	45	35.5	26.5	18.5	14.5
230	54	46	36	27	19	15
300	58	49.5	38.5	29	20.5	16
320	59	50.5	39.5	29.5	21	16.5
400	64	54.5	42.5	32	22.5	18
420	65	55.5	43.5	32.5	23	18
440	66	56	44	33	23	18.5
480	68.5	58.5	45.5	34.5	24	19
500	69.5	59	46.5	35	24.5	19.5
520	70.5	60	47	35.5	25	19.5
600	75.5	64.5	50.5	38	26.5	21
620	76.5	65	51	38.5	27	21.5
660	79	67.5	53	39.5	28	22
	1 10	0000	1 00	1]	1

In the readjustment the carriers proposed, in the first place, to divide C. F. A. Territory into three separate sections or zones and to use three separate scales of rates:

The principal zone embraces all the territory on and south of the line of the Michigan Central Railroad from Chicago to Detroit, through Kalamazoo and Jackson, Mich., and is designated as "Zone A."

Zone B lies immediately north of Zone A and is bounded on the north by a line running from Muskegon, on the east bank of Lake Michigan, eastwardly across the state through Greenville, Edmore, Alma, Saginaw, Midland, Bay City, and Sandusky, Mich., to Lake Huron.

Zone C lies directly north of Zone B and includes the remainder of the southern peninsula of Michigan. Zone C also embraces, via car-ferry route, the west banks, Lake Michigan ports north of Milwaukee, Wis., namely, Sheboygan, Manitowoe, Kewaunee, Green Bay, Two Rivers, and Marinette, Wis., and Menominee and Manistique. Mich. This is by virtue of the fact that such traffic moves through that part of Michigan which is in Zone C and via the ports of Ludington and Frankfort. (Our students will do well to indicate these zones on Map 8 of their Atlas of Railway Traffic Maps.)

In formulating the scale applicable within Zone A up to and including a distance of 25 miles, the scale proposed was divided into 5-mile blocks. Beyond that, to and including 55 miles, it was divided into 10-mile blocks. Thenee, up to and including a distance of 100 miles, 15-mile blocks. For distances of over 100 miles to and including 200 miles, it was divided into 20-mile blocks, while for greater distances, 25-mile blocks were used. The mileage blocks in the proposed scale were larger than in the existing scale, but that was offset to some extent, at least, by the fact that in the proposed scale the rates generally change with every block, while in the existing scale, they are often the same for two or more blocks. The scale was mainly for use in connection with distances which do not exceed 475 miles, the Chicago western termini distance.

For reasons not disclosed in the record, the carriers did not feel free to make substantial increases in the fifth- and sixthclass rates. Therefore, in constructing the scale, they began with the sixth-class rate as a basis so that they would be better able to keep control of the figures for the lower classes and to avoid heavy increases and severe disturbances. They started with 3 cents per 100 pounds as a reasonable sixth-class rate for

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5 miles and less. That had been the sixth-class rate prior to the 5 per cent increase made in 1914. To arrive at the sixthclass rate for distances greater than 5 miles, one-half cent was added for each successive mileage block. If 2.5 cents instead of 3 cents had been taken as the sixth-class base rate for 5 miles, a progression of one-half cent for each mileage block would have brought about radical reductions in the present rates for the greater distances. While if 3.5 cents had been used, the increases for the greater distances would have been more than the carriers were inclined to propose. The first-class rate for 5 miles was fixed at 11 cents, as that seemed reasonable compared with first-class rates of 11.6 cents in Michigan, 10.5 cents in Illinois, for one-line hauls, 10 cents in New England, Zone A, and 12 cents in New England, Zone B.

Following what appeared to be the prevailing practice, the second-class rate was made S5 per cent of the first-class rate, or 9.5 cents. The third-class rate, largely as a matter of compromise, was fixed at 7 cents, or .4 cents less than the present C. F. A. scale. Temporarily skipping fourth class, the fifthclass rate was arbitrarily made 4 cents, which was the rate prior to the 5 per cent increase and which happened to be 130 per cent of the sixth-class rate. The fourth-class rate was then made 165 per cent of the sixth class, or 5 cents, which was one cent less than that in the C. F. A. scale prior to the 5 per cent increase. The rates for 5 miles were then seen to be related to the sixth-class rate according to the following per cent.

 $\begin{array}{c} {\rm Classes} \qquad \qquad 1 \qquad 2 \qquad 3 \qquad 4 \qquad 5 \quad 6 \\ {\rm Per \ cent \ of \ Sixth \ Class \ldots 375 \quad 315 \quad 240 \quad 165 \quad 130 \quad 100 } \end{array}$

Having arrived at the sixth-class rate for all distances in accordance with the foregoing rule of progression, the rates for higher classes in each mileage block beyond the first block, to and including the 200-mile blocks, were uniformly based on the above percentages of the sixth-class rates. If the above percentages had been used for distances of "475 and over 450 miles," the resulting rates, when applied between Buffalo and Chicago, would not have cleared the existing rates between Rochester, N. Y., and Chicago. For instance, the first-class rates between Buffalo and Chicago would have been 60 cents, whereas the existing first-class rate from Chicago to Rochester is 58.3 cents, and from Rochester to Chicago, 55.2 cents. In order to avoid this difficulty, the percentage relation observed in the scale for all distances over 450 miles was as follows:

Class	ses .				. 1	2	3	4	5	6
Per	cent	of	Sixth	Class	.320	272	216	146	120	100

This arrangement resulted in the first-class rate of 51 cents for the distance between Chicago and Buffalo, and prevented a violation of the long-and-short-haul rule. For distances over 200 miles to and including 450 miles, no definite percentage relations to sixth-class rates were observed, but the spread in the rates between the 200 and the 450-mile blocks was distributed ratably over the intervening blocks.

The Zone-B scale was made one-half cent higher on sixth-class than the Zone-A scale, and the Zone-C scale one cent higher on sixth class than the Zone-B scale. The rates on the higher classes in both of these scales are based upon the sixth-class rate substantially as in the Zone-A scale. Upon the whole, the Zone-B scale is probably about 5 per cent higher than the Zone-A scale and the Zone-C scale about 8 per cent higher than the Zone-B scale.

It should be understood that these scales are not published in tariffs but are merely the basis used in constructing the published rates. The carriers did not undertake to compute distances between all points in C. F. A. Territory for use in applying this scale. That, it was said, would have been an enormous task, and, from a practical standpoint, not worth the time and expense required to perform it. The distances that were computed totaled about 400,000 in number and required the work of a large clerical force for several months. Distances were computed between all points on the same road and between a large number of so-called "basing points" on different roads. The basing points comprise most of the common or junction points in C. F. A. Territory and a number of local points including all branch-line termini.

In computing the distances, the shortest workable route in each case was ordinarily used, and the distances thus obtained were employed in arriving at rates for the longer routes between the same points. However, in some cases certain other considerations which were deemed to be controlling prompted the use of routes other than the short routes as bases for computing the distances. For instance, if the short route involved a two-line haul, it was not used if either of the lines composing it had a longer but reasonably direct route of its own between the points.

Having discussed the proposed scales and the methods of arriving at distances, it is now in order to see how the two were used in determining the actual rates between given points.

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For one-line hauls of distances up to and including 70 miles, the scale was strictly applied, that is, in accordance with the actual distance, but actual distance is not applied via one-line hauls more than 70 miles or for hauls of any length over two or more lines except between basing points. In the two latter cases the rates between the various basing points are arrived at by applying the scale in accordance with the actual distance, and the rate to or from any intermediate point is the same as the rate to or from the basing point next beyond, no matter how far beyond.

The application of the scale can possibly be better understood from a diagram shown below and from the explanation which follows:

		One-	Line	Haul		
0	10	25	50	70	90	110
0	0	0	0	0	0-	0
x	а	b	с	đ	е	f

x is a point of origin.

The figures above the horizontal line denote the distances in miles from x.

a, b, c, and d are local points of destination, within 70 miles of x. To these points of destination the scale is strictly applied.

f is a junction point with a connecting line, which may be 110 miles from x. It is a basing point, and under the carriers' rule of application it is the first point beyond d to which a rate is published in accordance with the scale and distance.

e is a local point between d and f, which under the carriers' rule takes the same rate as f, namely, the rate for "120 and over 100" miles. If the scale were applied in accordance with the distance, e would be given the rate for "100 and over 85" miles. This situation represents what the carriers call an "inflation."

Except as to cases where it would interfere with group and basing-point rates, the carriers have agreed to amend their tariffs and for single-line distances of over 70 miles not to apply the f rate to e if it results in charging e with more than is provided by the scale for that distance.

A diagram illustrating the situation on a two- or three-line haul appears below:



x is a point of origin.

The figures above the horizontal line denote distances in miles from x.

b, f, and h are basing points at junction with connecting lines. d and dd are local basing points on the line of the second carrier and distant 75 miles and 90 miles respectively from x. dd is also the terminus of a branch line. These are the first points beyond b, to which, under the carriers' rule of application, a rate is published in strict accordance with the scale.

The basing points f and h are, respectively, 91 miles and 141 miles from x, and are the only points beyond d to which, under the carriers' rule of application, the scale is strictly applied.

c. e, and g are representative local points between basing points and distant, respectively, 65, 86, and 92 miles from x. In each ease they take the rate applicable to the basing point beyond. viz., d, f, or h, regardless of what the scale provides for their respective distances. There would be no "inflation" at c or e. but there would be at some points between b and c, and at some points between d and e, because the distances exceed one mileage block. There would also be "inflations" at some points between f and h. It will be observed that the distance between f and h is 50 miles and that g, but one mile beyond f, is charged the rate applicable to h, which is that for "160 and over 140" miles. If the scale were strictly applied, there would be three breaks in the rates at points between f and h; that is, there would be rates for points "100 and over 85" miles, "120 and over 100" miles, and "140 and over 120" miles. If x, the point of origin, does not happen to be a basing point, there is a further "inflation" in each of the cases referred to, because x would take the rate applicable from a, a basing point, just as e takes the rate applicable to f; and the rate from any point between a and b to any point between b and d would be the rate from a to d.

When the rates to two near-by basing points are the same the points between them take the same rates as the basing points.

These rules or methods, with some modifications, were used generally in constructing the proposed rates. and, as will later appear, the group system of rate making was also employed. The rates at present in effect, and which generally have been in effect for many years, except for the 5 per cent increase made in 1914, were made in substantially the same manner. However, the "inflations" in the present rates are said by the carriers to be more numerous and more marked than they are in the proposed rates. To publish to and from every point in C. F. A. Territory rates strictly accordingly to scale and distance would necessi-

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tate the compilation of hundreds of thousands of additional distances, and would result in voluminous and complicated tariff publications. The "inflations" in the proposed rates occur principally on two- and three-line hauls, and in most cases probably do not result in higher rates than would have resulted had the carriers strictly applied the scale between all points and followed either the practice of adding a differential for hauls over two or more lines or the practice of charging the combination of the locals of each line.

Points between which there is a large movement of traffic are generally basing points, while the points at which the "inflations" appear are generally local stations which do not ship or receive a large tonnage. The "inflations" are, of course, more marked and more prevalent where the distances between basing points are of considerable length, than where such distances are comparatively short. C. F. A. Territory is so covered by the network of railways that in many cases the distance between basing points does not exceed the distance included in one mileage block of the proposed scale. However, to meet the objections made by some of the protestants, the carriers, except as to traffic to and from Michigan, have no great objection to a requirement by the Commission that they establish an additional basing point wherever the distance between the basing points now used in applying the proposed scale is 25 miles or more. The establishment of such new basing points would increase the proposed rates in some cases, and decrease them in others, and on account of the long-and-short-haul rule might cause the closing of certain routes, but it would result in the elimination of many of the "inflations" found in the proposed rate structure. Carriers maintain that it is wholly impracticable to adopt an absolutely rigid distance scale in C. F. A. Territory.

These scales are divided into 5-mile blocks for distances up to and including 100 miles. Then they progress by 10-mile blocks up to and including 300 miles. Beyond that 20-mile blocks are used. The Zone A scale begins with 16 cents as the first-class rates for 5 miles and less. One cent is added for each succeeding block up to and including 50 miles. Beyond that, up to and including 100 miles, on the theory that the charge per tonmile should decrease, it progresses by additions of one-half cent for each mileage block. Thence up to and including a distance of 200 miles, it progresses by additions of one cent per block, or twice as much as for the blocks for the distances from 50 to 100 miles, for the reason that the blocks are doubled in size. On the theory that the charge per ton-mile should further decrease for longer distances, an increase of one-half cent per block is then used up to and including 300 miles. Beyond that, as the blocks have doubled in size, the degree of progression is doubled, one cent per block being observed. The rates on the lower classes are in all cases related to first class according to the following percentages:

 $\begin{array}{c} {\rm Classes} \qquad \qquad 1 \quad 2 \quad 3 \quad 4 \quad 5 \quad 6 \\ {\rm Percentage \ Relationship \ } \dots \dots \dots 100 \quad 85 \quad 67 \quad 50 \quad 35 \quad 28 \end{array}$

We may say as a matter of information that in the Chicago-New York scale the rates for the lower classes appear to be related to the first-class rate according to the following percentages:

 $\begin{array}{c} \text{Classes} \ \dots \ 1 \ 2 \ 3 \ 4 \ 5 \ 6 \\ \text{Percentage Relationship} \ \dots \ 100 \ 86 \\ \text{3} \ 66 \\ \text{3} \ 46 \\ \text{3} \ 40 \ 33 \\ \text{3} \end{array}$

The Zone-B scale starts with a rate 2 cents higher on first class for five miles than does the Zone-A scale. For use to and from Zone C, or subdivisions thereof, carriers may work out scales of differentials to be added to the rates in the Zone-B scale.

In publishing the rates the following rule for the disposition of the fractions shown in these scales shall be observed: Fractions of less than $\frac{1}{4}$ or .25 to be omitted; fractions of $\frac{1}{4}$ or .25, or greater, but less than $\frac{3}{4}$ or .75 to be shown as $\frac{1}{2}$ (one-half); fractions of $\frac{3}{4}$ or .75, or greater, to be increased to the next whole figure.

APPLICATION OF THE CENTRAL FREIGHT ASSOCIATION SCALE

The method of determining the scale to employ is as follows: At all junction points throughout the territory where two or more carriers compete for the business of that point, representatives of each of the lines are delegated to meet the representatives of the other lines and to participate in what is called a "rate check."

The duties of these committees are confined to the determination of the short-line distance via workable and usually traveled routes from the junction in question to all other junctions in the territory (of which there are

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upwards of a thousand). Rates to local points are not considered at these meetings, being taken care of by the following rule:

Rates to any point not named, but which is directly between two points to which rates are named, will be the same as the rates named to such two points, unless the rates to such two points are not the same, in which case the rate to the point involved will be that applicable to the point to which the higher rate is published.¹

Diagram 2 has been prepared to indicate the procedure that is commonly employed. In this diagram are shown a few of the junction or common points and the shortline distance between such points. Assuming that the rate from St. Louis, Mo., were involved, representatives of the Central Freight Association lines operating from St. Louis would meet and submit data indicating the distance via each of the lines and their connections to all Central Freight Association junction and base points.

With this data before them, the representatives would determine on what scale the rates would be published to the common points and whether or not their lines would participate in the traffic, for the route via one or more of the initial lines might be so circuitous as to preclude the possibility of engaging therein.

Taking Indianapolis, Ind., as a destination, the distance is such as to warrant the application of the 250-mile scale. As this city is of considerable importance both as a consuming point and as a manufacturing center, this scale of rates would be fixed as the scale to that point, and rates to intermediate points via workable routes to Indianapolis would be established which would not exceed this scale.

The rates so established would then be observed as minimum rates as far back towards the originating point as the next common point, the distance to which war-

¹ The same rule may be observed for intermediate points of origin.





ranted the application of a lower scale. On the line of the Vandalia Railroad, this would be at Greencastle, the distance to which is 202 miles, warranting the application of the 210-mile scale. As the point itself is of minor importance from a traffic viewpoint, it is not unlikely that the distance would be slightly inflated and the 230-mile scale applied to preserve a relative alignment of rates (avoiding abrupt increases) as compared with the Indianapolis rates and to enable the more circuitous routes to participate in the traffic.

The results of the labors of these committees are then tabulated and arranged in convenient form in what is known as a "basing book" or a "basing sheet." This issue shows all of the common points or junction points in the territory and either the specific rates to apply thereto or the names of the base points of the group rates that are to be applied.

GROUPING OF POINTS

Owing to the density of railroad mileage in this territory, the numerous intersections of the lines comprising the system have created a thousand and more of these junction points, many of which are closely situated to each other. Particularly in so far as long hauls are concerned, some of them fall within the same distance from a given point of origin.



DIAGRAM 3

In Diagram 3 the distance from A to each of the junctions indicated (except G) is in excess of 425 miles and

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the application of the 450-mile scale is warranted. The committee would not, however, indicate a specific scale of rates to all of these junctions, but it would take B as the base point and show the 450-mile scale opposite it in the table of base rates.

		R	ATES IN	CENTS F	PER 100	Pounds	
FROM ST. LOUIS,	MILES			Clas	sses		
M0., 10		1	2	3	4	õ	6
В	450	61	52	41	30.5	21.5	17
G	425	60	51	40	30	21	17
and Andrea apparently considered and the second sec	and spinster and state of the local division						

In the body of the basing book the application of these rates to the other junctions would be provided for as follows:

То																		F	t.r	7	ΓĒ	2	BAS	I
В																							В	
С															•								В	
D																					•		В	
Е					•					•								•		•			В	
\mathbf{F}					•	•	•		•			•		•			•	•		•	•		В	
G											•	÷	•			•				•			G	

For the purpose of further illustrating the rate-making method employed in this territory, we will assume that it is desired to construct a rate from Cincinnati, Ohio, to stations on the line of the Cincinnati, Hamilton & Dayton Railway. Accordingly, in Diagram 4, we have indicated the more important junction points upon this line and the distance that they are removed from Cincinnati via this route. In cases where this route is not the short line, the short line has been indicated together with the distance via such route.

The first junction point north of Cincinnati shown in this figure is Hamilton, Ohio. Consequently, the representatives of the Cincinnati, Hamilton & Dayton Railway and the Pittsburgh, Cincinnati, Chicago & St. Louis Rail-



DIAGRAM 4

way, in preparing their minimum-rate sheets, would hold this point on the Central Freight Association 25-mile scale and intermediate points, that is, those between Cincinnati and Hamilton, would be accorded their respective distance rates not to exceed the rate to Hamilton, to observe the long-and-short-haul clause of the Act.

For example, the representative distance from Cincinnati, Ohio, to stations intermediate to Hamilton, Ohio, via the Cincinnati, Hamilton & Dayton Railway, are as follows:

MILES	STATIONS	Miles	STATIONS
2.6	Brighton, Ohio	11.8	Wyoming
3.4	Fairmount	12.8	Park Place
5.5	Cumminsville	13.6	Woodlawn
6.6	Winton Place	15.0	Clendale
7.6	Ivorydale	17.1	Crestvue
8.5	Elmwood Place	18.6	Muhlhauser
9.4	Carthage	$19.2\ldots$	Stockton
10.6	Hartwell	$22.8\ldots$	Schencks
11.2	Maplewood	24.0	Lindenwald

The rates to these stations would be published on approximately the following figures:

Enore Congress and	RAI	ES IN	CENTS	PER 100) Pouni	os
FROM UNCINNAIL,			Clas	ses		
OH10, 10	1	2	3	4	5	6
Brighton, O	18.5	15.5	12.5	9.5	6.5	5
Winton Place	19.5	16.5	13	10	7	5.5
Hartwell Maplewood Maplewood Wyoming Park Place Woodlawn Glendale Glendale	20.5	17.5	13.5	10.5	7	5.5
Crestvue	22	18.5	14.5	11	7.5	6
Schencks	23	19.5	15.5	11.5	8	6.5

It should be understood as concerns the scaling of rates to local stations that one company does not permit another company to employ the same practice in so far as its local stations are concerned. In other words, a joint rate from some point near Cincinnati on one of its connections to Mulhauser, for example, would be made not by applying the Central Freight Association scale for the continuous distance but by applying the authorized common-point basis; that is, we will say the Aurora (Ind.)-Hamilton (Ohio) basis, which we will assume is on a 50-mile scale and upon which would be made the rates from any point on the connection between Cincinnati and Aurora to any point on the Cincinnati, Hamilton & Dayton Railway between Cincinnati and Hamilton regardless of how much less the distance might be.

Again, particularly as concerns very short joint hauls, rates are made on full combinations, that is on local rates for the respective distances, owing to the fact that a mileage prorate of the junction point to junction-point rates does not yield a sufficient sum to cover the cost of handling.

By such means, each road is able to keep its local territory inviolate and to maintain a lower scale of rates, up to certain distances, than can competitors from the same points.

There are many instances such as was illustrated in a preceding chapter where lines are forced to forego and waive traffic between given points. The map of the Cincinnati, Hamilton & Dayton Railway indicates a number of points on the main line from Cincinnati to Toledo, and also several junction points on the Delphos division, from Dayton to Manndale, inclusive. Sidney and Versailles, for example, are on the Cleveland, Cincinnati, Chicago & St. Louis Railway, by way of which line the points are 18 miles apart, while by the Cincinnati, Hamilton & Dayton Railway, by way of Dayton, the route is 79 miles in length, while by way of Ottawa and East Manndale, it is even greater and consequently, the Cincinnati, Hamilton & Dayton Railway does not attempt to meet the short-line rates at these points.

The next common point beyond Hamilton is Dayton, Ohio, and the route of the Cincinnati, Hamilton & Dayton Railway makes the short-line distance of 59 miles. Consequently, the 60-mile scale is applied under the rule that where the exact distance is not shown, the scale for the next higher distance is used. The rate to Dayton so established, as in the case of Hamilton, makes a maximum which may not be exceeded to intermediate points, and which must be observed by all Cincinnati-Dayton lines that desire to participate in the traffic.

As far as the main line of the Cincinnati, Hamilton & Dayton Railway is concerned, the same procedure is followed up to, and including, Toledo, Ohio, with the exception that at the more distant points, such as Tontogany, Deshler, Ottawa, and Lima, the actual mileage may be slightly inflated or increased. Thus, for example, while Tontogany would be entitled to a 190-mile scale under a strict application of the short-line mileage rule, the absence of direct-line competition from Cincinnati would enable the Cincinnati, Hamilton & Dayton Railway to hold this point upon the same basis as Toledo (210 miles).² Then, again, while Deshler apparently should receive the benefit of the 170-mile scale, the distance could be inflated from 20 to 30 miles, resulting in the application of the 190-mile or 200-mile scale, as the officials or representatives of this line may elect, for the same reasons as those advanced in the case of Tontogany.

This practice is absolutely essential, for if it were not and if, on the other hand, the actual distance were applied in each case and the long-and-short-haul clause strictly observed, an endless process of tearing down the rate structure would be brought about, resulting in a very

 $^{^{2}}$ As there is no scale of rates for 201 miles, the distance shown on the map, rates for 210 miles would be applied.

low scale of rates, and many carriers would be compelled to forego traffic which in many cases, although yielding a low rate, contributes in no small measure to their revenues.

To appreciate competitive conditions, it may be seen from Diagram 4 that the distance to Ironton, Ohio, via the Cincinnati, Hamilton & Dayton Railway is 224 miles as contrasted with 134 miles via the Norfolk and Western Railway, which is the direct line. Consequently, the absence of direct-line competition, in so far as the Norfolk and Western Railway is concerned, enables it to hold a rate on a somewhat higher basis than would ordinarily obtain (approximately the 180-mile scale). This permits the circuitous route (the Cincinnati, Hamilton & Dayton Railway) to make its rate much higher than would be required were the Norfolk and Western Railway to observe the actual distance.

At Xenia, Ohio, may be seen a situation that frequently arises. It will be observed from the route of the Pittsburgh, Cincinnati, Chicago & St. Louis Railway that the actual distance is 65 miles (indicated by the light line) as contrasted with 79 miles via the Cincinnati, Hamilton & Dayton Railway. On the route of the former line, however, Xenia is intermediate to Dayton. As Dayton is of infinitely more importance so far as traffic is concerned, the Pittsburgh, Cincinnati, Chicago & St. Louis Railways shrinks or decreases the rate that would obtain under the actual distance at Xenia and observes the 60mile scale that the Cincinnati, Hamilton & Davton Railway publishes to Dayton. Consequently, as the Pittsburgh, Cincinnati, Chicago & St. Louis Railway is competing with the Cincinnati, Hamilton & Dayton Railway for Dayton business, the latter road retaliates by meeting the 60-mile scale via Dayton to Xenia. Similarly, the short line between Cincinnati and Washington Court

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House or Chillicothe is the Baltimore & Ohio Southwestern Railway. At Washington Court House, it makes the rates on the 80-mile Central Freight Association scale, while at Chillicothe the rates are held on practically the actual distance or the 100-mile scale. In both instances the Cincinnati, Hamilton & Dayton Railway meets these figures.

CHAPTER III

RATES WITHIN CENTRAL FREIGHT ASSOCIATION-Continued

EQUALIZATION OF COMPETITION

In Table 3 are shown only the regular scales where the mileage is indicated. There are tariffs, however, that have from two to three hundred modifications of this scale, either increasing or decreasing the rates on one or more of the various classes. These scales are known as "split scales," a better term, perhaps, being "compromise scales," and are the result of an attempt to equalize the competition of localities, of carriers, or of commodities. The following example illustrates this:



Let A and B represent small localities at which brick kilns are located, these points being 25 miles apart. Assume, then, that the brick moves under the sixth-class rate and that the directions of the movement are eastbound and westbound according to Diagram 5. On westbound traffic to C, which is 20 miles from the kiln located at B, B would have an advantage of 2.1 cents per 100 pounds over A, while on eastbound traffic to D the reverse would be the case. Further assuming that the industry at B is served by two lines, thus opening up to it a much larger territory than is given to A, and presuming that the territory east of A is well supplied

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with brick, the field of the manufacturer operating at A must be confined to the west, where he must compete with the manufacturer at B. To do so on an equitable basis, it follows that he cannot concede his rival an advantage of 2.1 cents per 100 pounds, or 42 cents per ton. Accordingly, he seeks out the traffic manager of the road upon which he may be located and presents the facts to him.

Aside from the brick kiln at A, there is little or no traffic involved. As it is to the interest of the traffic manager to foster and develop to the fullest extent the industries on the lines that he represents, a compromise scale may be decided upon by a reduction of the sixthclass rate to the same figure as that applied from B, maintaining the other classes on the normal basis. This policy, while enabling the brick manufacturers to compete on equal terms, does not disturb the rates on ordinary merchandise traffic, because the rates for the higher classes are not depressed but are maintained upon the required mileage basis. For example:

Classes	1	2	3	4	5	6
B to C (20 mi.)	22	18.5	14.5	11	7.5	6
A to C (45 mi.)	27.5	23.5	18.5	14	9.5	7.5

What is true in this case is true in the case of any other commodity, locality, or carrier. Consequently, the practice has resulted in the depression of various class rates. This accounts for the modifications of the regular Central Freight Association scale which may be encountered from time to time. It may be the second-class rate in one case, the third-class rate in another, or the sixth-class rate, as in the illustration. The general practice, however, is to establish specific commodity rates and not disturb the class-rate adjustment.

To branch-line points especially, rates are generally made on an arbitrary basis, that is, by the addition of certain figures to a rate to a base point. For instance, the rates to French Lick Springs, Ind., from all points in Central Freight Association Territory, are made certain arbitraries over the rates that may be established under the Central Freight Association scale from the same point of origin to Orleans, Ind., and this procedure also adds to the number of scales required.

Again, in so far as the interstate movement between Indiana and Illinois, or between Indiana and Michigan, or Ohio and Michigan is concerned, the scales established by the commissions of those states, being materially higher than the Central Freight Association scale so far as short distances are concerned, disrupt the application of the Central Freight Association scale and occasion the establishment of many of the split scales, that is, scales that are different from those that would apply for the same distance if the normal Central Freight Association rates were used. To illustrate this, Diagram 6 has been prepared.



DIAGRAM 6

Stations A to F, inclusive, are assumed to be in Illinois, while the remaining stations are in Indiana. The stations in each instance are 10 miles apart. Now, assuming the movement to be eastbound, the rates to and including F would be made in conformity with the Illinois distance scale, resulting in a first-class rate from A to F of 23.3 cents per 100 pounds. The rate to G, the movement being

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interstate, would be made subject to the regular Central Freight Association scale. The rate for the 60-mile distance, as encountered in this illustration, would be 30 cents, which is considerably less than the rate for the shorter intrastate movement under the Illinois adjustment. Indeed, a rate approximately as high as the intrastate rate would not be attained until J is reached, the rate thereto for a distance of 90 miles on the Central Freight Association scale being 33.5 cents.

As a result, the carriers "hold up" the rates to stations G to I on an inflated distance in order to protect their intrastate rates. Particularly will this be found true of carriers operating to or from Illinois through such junctions as Vincennes, Terre Haute, and Indianapolis, Ind., and Danville, Ill.

The practice of the carriers in this regard nullifies, to a considerable extent, the effect of the high Illinois scale and enables jobbing centers located within the state to compete on more even terms for the trade of points within the state with jobbing centers located outside thereof. From the foregoing, it will readily be seen that the Illinois jobber would be greatly handicapped by the low Central Freight Association rates on interstate business.

CLASS DIVISIONS OF THE CENTRAL FREIGHT ASSOCIATION SCALE

Prior to the adoption of the Official Classification in 1887, the scale of rates, in so far as the class divisions were concerned, varied considerably from time to time, owing to the multitude of individual classifications that were employed by the carriers. The rates from Chicago to New York ranged from four classes in 1871 to twelve classes in 1885, the present scale of six classes being adopted on April 1, 1887, when Official Classification No. 1 made its appearance. Six was a very limited number of classes to which to assign the many and varied articles of commerce. Consequently, it was not long before additional classes were made necessary.

As the tariffs naming class rates had all been reissued to conform to the scale adopted by the Official Classification Committee, to increase the number of the class divisions specifically would have resulted in the reissuance of all of the tariffs that had been issued under the six-class scale division, entailing a large amount of labor and involving a great expense. Consequently, the plan was adopted of making the new classes certain percentages less than the existing classes and incorporating in the classification a table indicating the standard class and the class that would be made under the application of the percentage adjustment.

The first classes of this character were designated as "Rules 25 and 26" of the Official Classification, they being shown as "Rules" in the classification; the former providing for an application of a rating 15 per cent less than the second-class rate and the latter providing for a rating 20 per cent less than the third-class rate, observing third-class and fourth-class rates as minimum rates for the respective classes.¹

The most recent addition to these classes, so far as the classification is concerned, is the Rule-28 rating, which is set forth in Table 4. This rating, however, is not made on a fixed percentage, as is the case with Rules 25 and 26, but is contingent upon 35 per cent of the difference between the third-class and fourth-class ratings. If, for example, the third-class rate were 30 cents and the fourth-class rate were 25 cents, the difference would be 5 cents per 100 pounds. In such a case 1.8 cents would be added to the fourth-class rate, making the Rule-28 rating 26.8.

¹ Explained in the treatise on Freight Classification.

TABLE 41

		~~~~													
WST2N PRESCE PRESCE SETWIZN AND 4TH CLASS RATE 13 (Cents)	THE AMOUNT TO BE ADOSD TO THE 4TH CLASS RATE WILL SE (Cents)	WHEN THE DIS- FRAENCE BETWEEN THE 3D AND 4TH CLASS RATE IS (Cents)	TITE AMOUNT TO EE ADDID TO THE 47H CLASS RATE WILL SS (Cents)	WEEN THE DIP FRANCE BRIVEIN THE 3D AND 4TH CLASE RATE 13 (Cente)	TSD AMOUNT TO EZ ADDDD TO THE ATTI CLASS LATS WILL BB (Centa)	WHEN THE DIM- FERENCE BETWEIN THE 3D AND 4TH CLASS RATE IS (Centz)	Tur AMOUNT TO ED ADDID NO TOLE 4770 CLASS RATE WILL SB (Cents)	WHEN THE DIS- FLEENCE BETWEEN THE 3D AND 4TH CLASO RATE IS (Cents)	TES AMOUNT TO EE ADOND TO THE 4TH CLASS RATS WILL BE (Cents)	WHEN THE DIF- FERENCE BETWEEN THE 3D AND 4TH CLASS RATE IS (Cents)	THE AMOUNT TO BE ADDED TO THE 4TH CLASS RATS WILL BB (Cents)	WHEN THE DIF- FERENCE BETWEEN THE 3D AND 4TH CLASS RATE IS (Cents)	THE AMOUNT TO BE ADDED TO THE 4TH CLASS RATE WILL DE (Cents)	WHEN THE DIF- FERENCE BETWEEN THE 3D AND 4TH CLASS RATE IS (Cents)	THE AMOUNT TO BE ADDED TO THE 4TE CLASS RATE WILL BE (Cents)
$\begin{array}{c} 5.6\\7\\9\\ 1.0\\ 1.12\\ 1.3\\ 1.5\\ 1.6\\ 1.22\\ 2.3\\ 1.5\\ 2.24\\ 2.27\\ 2.20\\ 3.3\\ 3.3\\ 3.3\\ 3.5\\ 3.3\\ 3.3\\ 3.3\\ 3.3$	2 2 2 2 3 3 4 4 4 4 4 5 5 5 5 6 6 6 6 7 7 7 7 8 8 8 9 9 9 9 9 9 0 1.0 1 1.1 1 1.2 2 3 3 4 4 4 4 5 5 5 5 6 6 6 6 7 7 7 7 8 8 8 9 9 9 9 9 9 10 10 10 10 10 10 10 10 10 10 10 10 10	$\begin{array}{c} 4.2\\ 4.3\\ 4.4\\ 4.6\\ 4.7\\ 4.8\\ 5.0\\ 1\\ 5.2\\ 3.4\\ 4.9\\ 5.0\\ 1\\ 5.2\\ 3.4\\ 5.5\\ 5.5\\ 5.7\\ 5.8\\ 9.0\\ 0\\ 6.1\\ 2\\ 6.6\\ 6.7\\ 7.1\\ 7.2\\ 3\\ 7.4\\ 7.5\\ 6\end{array}$	$\begin{array}{c} 1.5\\ 1.5\\ 1.5\\ 1.6\\ 1.6\\ 1.7\\ 1.8\\ 1.8\\ 1.9\\ 1.9\\ 2.0\\ 2.0\\ 2.1\\ 2.1\\ 2.2\\ 2.2\\ 2.3\\ 2.3\\ 2.3\\ 2.3\\ 2.3\\ 2.4\\ 2.4\\ 2.5\\ 2.5\\ 2.6\\ 2.6\\ 2.6\\ 2.6\\ 2.6\\ 2.6\\ 2.6\\ 2.6$	$\begin{array}{c} 7.9\\ 8.0\\ 8.1\\ 8.2\\ 8.3\\ 8.4\\ 8.5\\ 8.6\\ 8.7\\ 8.89\\ 9.01\\ 9.2\\ 9.3\\ 9.4\\ 9.5\\ 9.6\\ 9.7\\ 9.89\\ 9.0\\ 10.0\\ 10.1\\ 10.5\\ 10.6\\ 10.7\\ 10.8\\ 10.6\\ 11.1\\ 11.2\\ 11.3\\ \end{array}$	$\begin{array}{c} 2.8\\ 2.8\\ 2.8\\ 2.9\\ 2.9\\ 3.0\\ 3.0\\ 3.0\\ 3.1\\ 3.2\\ 3.3\\ 3.3\\ 4\\ 3.4\\ 3.5\\ 5.6\\ 3.6\\ 6\\ 3.6\\ 3.6\\ 3.6\\ 3.6\\ 3.6\\ 3.6$	$\begin{array}{c} 11.6\\ 11.7\\ 11.8\\ 11.9\\ 12.0\\ 12.1\\ 12.2\\ 12.5\\ 12.6\\ 12.5\\ 12.6\\ 12.7\\ 13.1\\ 13.2\\ 13.3\\ 13.4\\ 13.5\\ 13.4\\ 13.6\\ 13.7\\ 13.8\\ 14.0\\ 14.1\\ 14.2\\ 14.3\\ 14.4\\ 14.5\\ 14.6\\ 14.7\\ 14.8\\ 14.9\\ 15.0\\ \end{array}$	$\begin{array}{c} 4.1\\ 4.1\\ 4.1\\ 4.2\\ 2.3\\ 4.3\\ 3.4\\ 4.4\\ 4.5\\ 5.6\\ 1.1\\ 7.7\\ 7.8\\ 8.8\\ 8.9\\ 9.9\\ 5.0\\ 1.1\\ 5.0\\ 1.1\\ 5.0\\ 5.5\\ 5.3\\ 5.5\\ 5.3\\ 5.5\\ 5.3\\ 5.5\\ 5.3\\ 5.5\\ 5.3\\ 5.5\\ 5.3\\ 5.5\\ 5.3\\ 5.5\\ 5.3\\ 5.5\\ 5.3\\ 5.5\\ 5.3\\ 5.5\\ 5.3\\ 5.5\\ 5.3\\ 5.5\\ 5.3\\ 5.5\\ 5.3\\ 5.5\\ 5.3\\ 5.5\\ 5.3\\ 5.5\\ 5.3\\ 5.5\\ 5.3\\ 5.5\\ 5.3\\ 5.5\\ 5.5$	$\begin{array}{c} 15.3\\ 15.4\\ 15.5\\ 15.6\\ 15.7\\ 15.8\\ 15.9\\ 16.0\\ 16.1\\ 16.3\\ 16.4\\ 16.5\\ 16.6\\ 16.7\\ 17.0\\ 17.1\\ 17.2\\ 17.4\\ 17.5\\ 17.4\\ 17.5\\ 17.4\\ 17.5\\ 17.4\\ 17.5\\ 17.4\\ 17.5\\ 18.1\\ 18.2\\ 18.3\\ 18.4\\ 18.5\\ 18.6\\ 18.7\\ \end{array}$	$\begin{array}{c} 5.4\\ 5.5\\ 5.5\\ 5.5\\ 5.5\\ 5.5\\ 5.5\\ 5.5\\$	$\begin{array}{c} 19.0\\ 19.1\\ 19.2\\ 19.3\\ 19.4\\ 19.5\\ 19.6\\ 19.7\\ 19.8\\ 20.0\\ 20.1\\ 20.2\\ 20.3\\ 20.4\\ 20.5\\ 20.6\\ 20.7\\ 20.8\\ 20.9\\ 20.0\\ 21.1\\ 21.2\\ 20.3\\ 21.4\\ 21.5\\ 21.6\\ 21.7\\ 21.8\\ 21.6\\ 21.7\\ 21.8\\ 21.9\\ 22.0\\ 22.1\\ 22.2\\ 22.3\\ 22.4\\ \end{array}$	$\begin{array}{c} 6.7\\ 6.7\\ 6.8\\ 6.8\\ 6.8\\ 6.9\\ 6.9\\ 7.0\\ 7.0\\ 7.1\\ 7.1\\ 7.2\\ 7.3\\ 7.3\\ 7.4\\ 7.4\\ 7.4\\ 7.5\\ 7.5\\ 7.6\\ 6.7\\ 7.7\\ 7.8\\ 8.8\\ 7.8\\ \end{array}$	$\begin{array}{c} 22.7\\ 22.8\\ 22.9\\ 33.0\\ 23.3\\ 23.3\\ 23.3\\ 23.3\\ 23.3\\ 23.3\\ 23.3\\ 23.3\\ 23.3\\ 23.3\\ 23.3\\ 23.3\\ 23.3\\ 23.3\\ 24.0\\ 24.1\\ 23.3\\ 24.4\\ 24.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 25.5\\ 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8.0\\ 8.1\\ 8.1\\ 8.1\\ 8.2\\ 8.3\\ 8.3\\ 8.3\\ 8.3\\ 8.4\\ 8.4\\ 8.4\\ 8.5\\ 5.5\\ 8.6\\ 6.6\\ 8.7\\ 7.8\\ 8.8\\ 8.8\\ 8.9\\ 9.0\\ 9.0\\ 9.1\\ 9.1\\ 9.1\\ \end{array}$	$\begin{array}{c} 26.4\\ 26.5\\ 26.6\\ 26.7\\ 26.8\\ 26.9\\ 27.0\\ 27.1\\ 27.2\\ 27.3\\ 27.4\\ 27.5\\ 27.6\\ 27.7\\ 27.9\\ 28.2\\ 27.6\\ 27.7\\ 28.2\\ 28.3\\ 4\\ 28.5\\ 28.6\\ 29.0\\ 29.1\\ 29.3\\ 29.4\\ 29.5\\ 29.6\\ 29.5\\ 29.6\\ 29.8\\ \end{array}$	$\begin{array}{c} 9.2\\ 9.3\\ 9.3\\ 9.4\\ 9.4\\ 9.5\\ 9.5\\ 9.6\\ 9.6\\ 9.6\\ 9.6\\ 9.6\\ 9.8\\ 9.9\\ 9.9\\ 9.9\\ 9.9\\ 9.9\\ 9.9\\ 9.9$
$3.9 \\ 4.0 \\ 4.1$	$1.4 \\ 1.4 \\ 1.4$	7.6 7.7 7.8	$2.7 \\ 2.7 \\ 2.7 \\ 2.7$	$     \begin{array}{c}       11.3 \\       11.4 \\       11.5     \end{array} $	4.0 4.0 4.0	15.0 15.1 15.2	5.3 5.3 5.3	18.7 18.8 18.9	6.6 6.6	22.4 22.5. 22.6	7.9	20.1 20.2 26.3	9.1 9.2 9.2	29.8 29.9 30.0	10.4 10.5 10.5

Rulo 23. Articles classified subject to this Rule will be rated at fourth-class rates plus the amounts shown in the following Table of Rates, unless otherwise provided in the Tariffs of individual carriers.

#### TABLE OF RATES TO BE USED IN CONNECTION WITH RULE 23.

¹ This table was taken from Official Classification No. 43.

In more recent years, owing to the ever-changing demands of our internal commerce and the intensity of industrial and regional competition, there have been numerous other class divisions established. Indeed, at the present time the Central Freight Association is bend-

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ing its efforts towards the elimination of specific commodity rates and towards the publication of rates based on certain percentages of existing class rates, in order to accommodate the movement of such commodities as may warrant this treatment.

This practice has been indulged in to such an extent that the Central Freight Association scale has grown from six classes to twenty-nine classes. This number includes the multiple classes, or those made certain multiples of the first-class rate, and the percentage classes, which are usually predicated on the lower divisions.

The construction of rates under this plan is peculiar to Central Freight Association Territory and is probably accounted for by the fact that the bulk of the tonnage moving in this territory is low-grade freight, and crude or raw materials. It differs materially from that moving in Trunk Line and New England Freight Association territories, as the bulk of the traffic in these territories is the manufactured or finished article, which does not require extraordinary treatment to develop and stimulate its movement. Again, the amount of eastbound tonnage greatly exceeds the westbound movement. As the volume of the traffic and the nature of the commodity are prime factors in rate-making, it is perhaps only natural that the adjustment of rates in this territory is more highly developed than that obtaining to the eastward.

#### TABLE 5

CLASSIFICATION OF COMMODITIES BASED ON PERCENTAGES OF REGULAR CLASS RATES

COMMODITY	RATE				
Acid, muriatic and sulphuric.	90	% of fifth	class		
lbs.	83.3 80	3% of sixth	class		
Barytes, C. L., min. wt. 40,000 lbs	90	% of sixth	class		
Clays and silicates, min. wt. 40,000 lbs	80 80	% of sixth	class class		

## TABLE 5—Continued

#### CLASSIFICATION OF COMMODITIES BASED ON PERCENTAGES OF REGULAR CLASS RATES

COMMODITY		RATE	
Furniture, C. L., viz.: beds, folding; church furni- ture, N. O. S.; cupboards, wooden; desks, S. U.: furniture, new; and tables, N. O. S., min. wt.			
20,000 lbs.	126	% of fourth	class
Limestone, agricultural, C. L., min. wt. 50,000 lbs.	60	% of sixth	class
Manure and street sweepings, C. L., min, wt.		/-	
40.000 lbs.	73.3	3% of sixth	class
Rock, gypsum, erushed, not ground, and rock, gyp- sum, run-of-mine, C. L., min, wt. marked capac-			
ity of car	73.3	3% of sixth	class
Sacks or bags, cement or plaster, empty, returned.		/~	
L. C. L.	50	% of third	class
Salt, C. L., in barrels, boxes, bulk, or in sacks, straight or mixed, min. wt. 37,500 lbs., when		,.	
and west of St. Louis, Mo	75	% of sixth	elass
Sulphur, unground, crude, originating south of the Ohio River and west of the Mississippi River,			
C. L., min. wt. 30,000 lbs	65	% of sixth	class

There are a great many other commodities that take the same ratings as some of those shown in Table 5, but it is not deemed advisable to incorporate them in a treatise of this character. Reference to the exceptions of the Central Freight Association will give those who so desire a further insight as to such commodities.

While, as before stated, the practice has been heretofore to issue class-rate tariffs and simply show the six classes, the Interstate Commerce Commission now requires that all classes, whether they are based on a multiple of first class or on a percenatge of the regular classes, must be indicated in the tariff publications. The reason for this is obvious, inasmuch as it makes it unnecessary for the user of the tariff publication to refer to several issues or to make computations to ascertain the rate that he is seeking.

The ever-increasing development of manufacturing lines in this territory has had much to do with the expan-

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sion of the original scale. To many students of uniform classification the only solution of harmonizing the class divisions of the several classifications seems to hinge upon the adjustment of rates employed in Central Freight Association Territory.

It should be understood, in connection with the minimum-rate sheets or basing books, that when the rates have once been agreed upon and established, the individual lines arrange for their publications and the rates may not be increased or decreased except by notice to the competing lines. Even under an agreement, the rates may not be advanced or lowered if they are going to affect points in the -immediate vicinity.

Following the petition of the Central Freight Association carriers for an increase in freight rates in the year 1914, the Commission, in granting the petition, called attention to the many irregularities that exist in the present adjustment of Central Freight Association points, many points being "out of line" or on a higher or lower basis than is warranted by the conditions obtaining. It was suggested at this time that the carriers arrange for a recheck of the entire territory, putting each point of origin as concerned points of destination upon the proper basis and preserving its advantage of location as contrasted with other points of origin where the conditions warranted.

This, however, is no small task and it is not anticipated that it will be possible to complete the work for some time to come. Two plans have been suggested: One is to take one point of origin and check in a line of rates to all points of destination within the territory, while another plan contemplates the reverse of this by taking all points in the territory and checking in rates to one point of destination, involving in each instance a revision of the mileage employed.

Now that many of the alleged railroad abuses have

been corrected, it is not unlikely that more attention will be paid to the unification of state legislation and stateprescribed rates, rules, and regulations governing the transportation of intrastate traffic. If this is accomplished before the recheck of the territory is consummated, it is not unreasonable to anticipate that a scale of transportation charges will be established upon a much more scientific and equitable basis than obtains at the present time. The dictates of reason, however, indicate that the entire rate structure cannot be readjusted in so short a period without creating some disadvantages or eliminating some advantages which are or are not at this time possessed by individual localities.

# Commodity Rates

In addition to the Central Freight Association scale of class rates, certain commodity rates have been established on a scale basis. These rates are to be used only in the absence of specific rates and as the basis of publishing tariffs between specific points, and where applied to joint hauls, it is necessary to secure the concurrence of the participating lines before rates may be established.

The following table indicates rates on a number of the commodities which are so treated:

TABLE 5A

CENTRAL FREIGHT ASSOCIATION SCALED COMMODITY RATES IN CENTS PER 100 POUNDS

	[°]	_		Соммо	DDITIES	rain Tile ¹	rain & Grain Products ²	e ^a	lme*	ogs ⁶	and Gravel ⁶	tone ¹	traw ^s
DIS	TANCE	S				Q	3	I	L L	ľ	ñ	Ś	õ
5	miles	or le	ess			3	4.5	2.5	4.5	4.5	3.5	5	5.5
10	miles	and	over	5		4	5.5	3.5	4.5	4.5	4	5	5.5
15	66	" "	6.6	10		4	6.5	3.5	5	5.5	4	5.5	5.5
20	6.6	6.6	6.6	15		4.5	7	4	5	5.5	4.5	5.5	6.5
25	66	66	66	20		4.5	7.5	4	6	6	4.5	6.5	7
30	6.6	66	6.6	25		5.5	7.5	4.5	6	6	5.5	6.5	7.5
35	6.6	6.6	4.4	30		5.5	8	4.5	6.5	6	5.5	7	8

•

#### TABLE 5A—Continued

## CENTRAL FREIGHT ASSOCIATION SCALED COMMODITY RATES IN CENTS PER 100 POUNDS

				Commodifies	ı Tile ¹	t & Grain oducts ²				Gravel ⁶	t=	82
Deserver					Drair	hrain Pro	ce³	ime	'0gs'	and	tone	strav
	I AIVOI				<u> </u>	<u> </u>		h-4	<u> </u>			
40				35	5.5	8	4.5	6.5	6	5.5	1	9
45			44	40	6.5	9	5.5	4	6.5	6	7.5	10
50				45	0.0	10	5.5	4	6.5	6	7.5	10
00			44	50	0.5	10	5.5	75	4	6	1.5	10
60				55	0.5	10	5.5	7.5	7	0	8	10
00		44	44	6U	0.5	10.5	5.5	7.5	4	0	ð	10.5
70		44	"	65	0.5	10.5	5.5	7.5	8	6	8	10.5
61				70	0.5	10.5	5.5	8	ð	0	8.5	10.5
80				75	0.0	11.5	5.5	ð	8	6	8.9	11.0
00		66	46	00	0.0	11.0	0.0	0 5	0.0	0	0.0	11.0
05	66	66		00	0.0	11.0	0.0 E E	0.0	0.0	C	9	10
100	"	66	**	05	0.0	11.0	5.5	0.0	0.0	C	0	10
105	**	" "	"	100	0.0	12	6	8.5	0.0	65	9	12
110	**	66	66	105	7	10	6	0.5	0	6.5	10	19
115	**	**	* *	110	7	12	6	0.5	0	6.5	10	12
120	**	66	66	115	7	19	G	0.5	0	6.5	10	12
120	44	66	66	110	4	10	6	0.5	0	6.5	10	125
120	**	66	66	120	7	195	6	10	10	6.5	10.5	12.5
125	66	66	66	120	- 47	12.5	6	10	10	6.5	10.5	19.5
140	66	66	66	135	75	12.5	65	10	10	7	10.5	12.5
145	66	66	**	140	7.5	12.5	6.5	10	10	7	10.5	12.5
150	66		44	145	7.5	12.5	6.5	10.5	10	7	11	12.6
155	66	66	66	150	7.5	14	6.5	10.5	10.5	7	11	14
160	4.6	66	66	155	7.5	14	6.5	10.5	10.5	7	11	14
165	66	66	66	160	7.5	14	6.5	10.5	10.5	$\dot{7}$	11	14
170	66	4.6	66	165	7.5	14	6.5	10.5	10.5	7	11	14
175	66	66	66	170	7.5	14	6.5	11	10.5	7	11.5	14
180	66	5.6	66	175	7.5	14	6.5	11	11	7	11.5	14
185	66	6.6	66	180	7.5	14	6.5	11	11	7	11.5	14.5
190	66	66	66	185	8	14	7.5	11	11	7.5	11.5	14.5
195	66	6.6	66	190	8	14	7.5	11	11	7.5	11.5	14.5
200	66	66	86	195	8	14	7.5	11.5	11	7.5	12	14.5
205	66	66	66	200	8	14.5	7.5	11.5	12	7.5	12	15
210	46	66	66	205	8	14.5	7.5	11.5	12	7.5	12	15
215	66	4.6	66	210	8	14.5	7.5	12.5	12	7.5	13	15
220	66	66	66	215	10	15	9	13.5	12	9	14	15
250	**	66	66	220	10	15	9	13.5	12	9	14	15.5
270	6.6	66	66	250	10	15	9	13.5	13	9	14	17
275	**	66	" "	270	10	15	9	13.5	13	9	14	17

¹Applicable on porous drain tile in carloads of 30,000 pounds mini-mum weight, but not applicable on shipments of vitrified pipe or tile. ² Minimum weight as per the Official Classification. ³ Applicable between points in the southern peninsula of Michigan. Minimum carload weight is 40,000 pounds. ⁴ Applicable on butts, handle bolts, heading bolts, logs, stave bolts,

in carloads of 40,000 pounds minimum weight, also applicable on saw-dust and shavings in carloads of 35,000 pounds minimum weight. ⁶ Applicable on carloads of gravel and sand (building and filling). Minimum carload weight is 50,000 pounds except where the marked capacity of the car is less, in which event the marked capacity of the car will be the minimum weight. ⁶ Applicable on stone, namely, crushed, rough, (not dimension) rubble, riprap, and quarry scrap. Minimum carload weight is 40,000 pounds except where the marked capacity of the car is less, in which event the marked capacity of the car will be the minimum weight. ⁷ Applicable on straw (for use of manufactures only), in carloads of 20,000 pounds minimum weight and in cars 36 feet or less in length. Rule 27 of Official Classification is to apply to cars of greater dimensions.

In the event that there is a local committee at the junction point from which it is desired to establish rates under the foregoing scale, the establishment of rates should be taken up with the chairman of the local committee in order to enable other roads to establish the same rates to the same points or to other points on their own line similarly situated.

It will be noted from the foregoing table that the rates on some commodities are not shown above certain distances and, as a rule, it may be stated that these commodities do not move to any extent above such distances. The commodities being commonly produced throughout the territory and of a very low value, prevent their moving long distances, and also the consuming points purchase them in the nearest available market which rarely is over 100 miles distant.

The low rate on logs may be accounted for by reason of the fact that the carriers have in mind when these logs are dressed and milled, namely, that the products will be shipped from the mill at *lumber* rates that are somewhat higher and which will move much further distances.

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# CHAPTER IV

# THE CHICAGO AND OHIO RIVER RATE ADJUSTMENT

In connection with the study of rates in Central Freight Association Territory, the rates between Chicago and the Ohio River Crossings are here considered, as they represent a modification of the Central Freight Association scale. These rates illustrate the fact that distance is not at all times a controlling influence in fixing the bases of rates in Central Freight Association Territory but that competitive conditions oftentimes intervene and compel a disregard of distance. This is true of the rates applied upon *local* traffic to or from the Ohio River Crossings and those applied upon traffic destined to or coming from points beyond these crossings.

A reason for the departure from the Central Freight Association scale of rates will be found in the following example: Cairo, Ill., is in Illinois Freight Committee Territory, and neither Milwaukee, Wis., nor Chicago, Ill., are in Central Freight Association Territory on traffic destined to the south or southeast through Cairo, Ill. In order to keep all gateways from Cincinnati, Ohio, to Cairo, Ill., on a parity, the officials of the Illinois lines and the Chicago and Ohio River lines (to Cincinnati and Louisville) who are also members of the Central Freight Association convene as the Chicago and Ohio River Freight Committee and legislate independently of the Central Freight Association or the Illinois Freight Committee.

The so-called Ohio River Crossings,¹ proper, are points located on the river at which there are bridges that permit the physical connection and interchange of traffic between northern and southern lines. There are, however, points where there is no bridge, and traffic is interchanged by means of ferries or car-floats (Brookport and Metropolis, Ill., and Paducah, Ky.) and crossings that simply mark the connection of the rail lines with the boat lines operating upon the river (Rockport and Madison, Ind., Shawneetown, Ill., etc.).

A distinction is made in the river crossings as to their location, that is, whether they are north-bank crossings or south-bank crossings. According to the direction of the traffic, the rates to the crossings on the opposite side of the river are sometimes made certain arbitraries (which amounts represent the bridge tolls) higher than the rates to the nearer crossings. Through the Ohio River Crossings (or Gateways, as they are sometimes called) an immense volume of traffic is interchanged annually between carriers operating in the respective territories lying north and south of the river.

Primarily, the South is an agricultural and mineral region and, until recent years, manufacturing was not engaged in to an appreciable extent. The great bulk of traffic originating in the southern states consists of cotton, fruits, vegetables, iron ore, phosphate, mica, naval stores, sugar, molasses, rice, and forest products. These natural products are exchanged for the manufactured products of the North. In so far as this country is concerned, the northern states have always been the most convenient market for the distribution of the products of the South.

To supply the South with their needs in the line of textiles, machinery, vehicles, etc., all the manufacturing

¹ See Traffic Glossary.

and producing centers of the North are pitted one against the other for this trade. As transportation costs frequently fix the purchase point, it is not surprising that the western lines have placed the adjustment of rates to the markets of the South under the supervision of a special committee known as the Chicago and Ohio River Committee. The functions of this committee are to supervise the publication of such rates as are agreed upon by the member lines and to entertain propositions from members, shippers, or consignees relative to the adjustment of rates, etc., necessary to enable them to compete on equitable terms with those more advantageously located.

As fully explained in the treatise devoted to rate construction in Southern Territory,² the eastern section of Official Classification Territory, usually described as "Seaboard Territory," embracing that area lying east of an imaginary line drawn from Buffalo, N. Y., through Pittsburgh, Pa., to Wheeling, W. Va., and thence to Charleston, W. Va., has a very low scale of rates to points in Southern Territory on account of the numerous available waterways and the many navigation companies that are engaged in the traffic. Consequently, if the western lines, together with their connections, did not do something to relieve this situation, it is likely that the western manufacturer would be unable to compete with competitors situated in the East. Likewise, the western carriers would suffer through diminished tonnage.

This is readily seen by assuming that two manufacturers are engaged in the same line of business, one located at some point adjacent to the seaboard, with available water transportation, and the other manufacturer located in the interior, relying solely on the rail lines. If the water lines afford the former a freight rate some 20

²See Freight Rates: Southern Territory.

or 25 cents per 100 pounds less than the rate conceded the interior manufacturer by the rail lines (assuming the cost of production in each plant to be the same), the eastern manufacturer can quote to prospective purchasers in Southern Territory a price as much less than the price quoted by his competitor as the difference in the current rates of transportation from the respective plants to destination.

For example, the rate on canned goods from Baltimore to Atlanta, Ga., via the rail and water routes might be 36 cents per 100 pounds, while from Indianapolis, Ind., to Atlanta, Ga., the local combination might be 56 cents, exceeding the eastern market rate by such an extent as to preclude the possibility of competition, but by the establishment of proportional rates each of the western roads shrinking their local rates to some extent, the greater part of this advantage may be overcome.

While, in the case of the higher grade of manufactured articles, the difference in existing charges from one territory as contrasted with another might not exert a controlling influence in the case of other traffic, particularly grain, grain products, and other food-stuffs, a difference of a cent or even less is frequently sufficient to control the market in which the purchase is made.

In addition to the through traffic, the Chicago and Ohio River Committee is also delegated by the member lines to publish the rates from and to Ohio River Crossings, to and from Chicago and related points on local traffic. As a thorough understanding of the local adjustment will materially assist in following the proportional adjustments (traffic coming from, or going beyond), it will be taken up first.

Diagram 7 has been prepared to show some of the peculiarities of this particular rate structure in so far as routes and various distances are concerned.



DIAGRAM 7

# EQUALIZATION OF DISTANCES

The following indicates the disparity in the distance via several routes from Chicago to Cincinnati, Ohio:

NAME OF ROAD	MILEAGE
Pittsburgh, Cincinnati, Chicago & St. Louis Ry	299
Chesapeake & Ohio Ry. of Indiana	286
Cleveland, Cincinnati, Chicago & St. Louis Ry	303
Chicago, Indianapolis & Louisville Ry. and Cin-	-
cinnati, Hamilton & Dayton Ry. (via. Indian-	-
apolis, Ind.)	310
New York Central R. R. and Cincinnati, Hamilton	1
& Dayton Ry. (via Toledo, Ohio)	445
Baltimore & Ohio System (via Chicago Junction	1
and Newark, Ohio)	503
, , ,	

The circuitous routes (those involving the longer haul) usually take no action in the making of rates, this matter resting with the direct lines. Hence, if they decide to engage in the traffic, they must meet the competition and apply the same rates as the direct lines. In accordance with this principle, the rates from Chicago to Cincinnati via the Baltimore & Ohio System and via the Pittsburgh, Cincinnati, Chicago & St. Louis Railway are the same, although the former route is two hundred and more miles longer than the latter. There is a limit, of course, where this procedure would not be advantageous to the carriers, in that a route involving a haul over several lines might be so long as to be non-workable.

In the illustration just cited, all the money received accrues to one system. A haul of this kind, however, over two lines, one of which, say, is 400 miles in length and the other 103 miles, would result in a division of earnings of approximately 80 per cent for the longer line and 20 per cent for the short line, which revenue, particuarly so far as the shorter line is concerned, would hardly cover actual transportation expense. Sometimes, however, the short-line demands arbitrary divisions, which

# CHICAGO AND OHIO RIVER ADJUSTMENT

are much in excess of what would accrue to them under a "mileage prorate."

Likewise, as the feature of time has come to be an important factor in the selection of routes, the longer lines necessarily enjoy but a comparatively small portion of the traffic. Their existence, however, is greatly appreciated at times by the shipping public, particularly when, through an accumulation of traffic, the direct lines are compelled to place embargoes with respect to the traffic, that is, decline to accept any for shipment until the accumulation on hand has been disposed of.

# LOCAL CLASS RATES

In the establishment of local rates, the Ohio River Crossings are grouped into two divisions—the upper and the lower Ohio River Crossings. The Indiana-Illinois state line marks the division.

In arriving at the rates from Chicago to the upper Ohio River Crossings (Evansville, Ind., to Cincinnati, Ohio, inclusive) it becomes necessary to determine the short-line distance to each of the crossings involved, which, as may be seen from Diagram 7, is 287 miles from Chicago to Evansville, Ind.; 295 miles to Louisville, Ky.; and 286 miles to Cincinnati, Ohio.

As the rule for the application of the Central Freight Association scale states that when the rate for the exact distance is not shown, that for the next greater distance is to be used, and as the distances in each case exceed 275 miles, the scale for 300 miles (the next higher) would be applied.

Consequently, the higher classes will be found to be on the 300-mile Central Freight Association scale.³

The current rates in effect on local traffic to the upper Ohio River Crossings are reproduced, as a matter of convenience, in Table 6.

See Table 3.

### TABLE 6

LOCAL CLASS RATES TO THE UPPER OHIO RIVER CROSSINGS

	······································	RATES' IN CENTS PER 100 POUNDS												
FROM	TO				Cla	asse	es							
		1	2	3	4	5	6	R25	R26	R28				
	Indianapolis, Ind	45	38.5	30	22.5	16	12.5	32.5	24	25				
	Cincinnati, Ohio	51	43.5	34	25.5	18	14.5	37	27	28.5				
Chicago, Ill.	Jeffersonville, Inci New Albany, Ind. (	52	44	35	26	18	14.5	37.5	28	29				
	Louisville, Ky Owensboro, Ky	$53 \\ 58.5$	$\frac{45}{50}$	$\frac{36}{39}$	27 30.5	$\frac{19}{21}$	$\begin{array}{c} 15.5\\ 17.5\end{array}$	$\begin{array}{c} 38.5\\ 42.5\end{array}$	$\frac{29}{31}$	30 33.5				
	Indianapolis, Ind	51	43.5	34	25.5	18	14.5	37	27	28.5				
Milwankoo	Cincinnati, Ohio   Evansville, Ind }	57	48.5	38	28.5	20	<b>16</b> .5	41	31	32				
Wis.	Jeffersonville, Ind) New Albany, Ind.	58	49	39	29	20	16.5	41.5	31	32.5				
	Louisville, Ky Owensboro, Ky	$\begin{array}{c} 59 \\ 64.5 \end{array}$	50 55	40 43	30 33.5	$\frac{21}{23}$	$\begin{array}{c} 17.5\\ 19.5\end{array}$	42.5 47	32 34.5	33.5 37				

¹ Governed by the Official Classification. ² The rates shown from Milwaukee, Wis., to Cincinnati, Ohio, also apply via lake-and-rail routes in connection with the Grand Trunk Railway System, Pere Marquette Railroad, and Pere Marquette Line Steamers. On traffic consigned through to destination from points beyond Milwaukee, the same rates as apply from Chicago apply from Milwaukee via the lake-and-rail routes.

From Table 6 it will be observed that, so far as the destinations from Chicago are concerned, the north-bank points are grouped and that the same scale of rates is applied to all of them. The rates to Louisville, Ky., a south-bank point, are made generally 1 cent per 100 pounds higher than the rates to the north-bank crossings, Jeffersonville or New Albany, Ind., this difference being the amount of the bridge toll assessed on all traffic crossing the river at this point.

The establishment of rates to Owensboro, Ky., under this adjustment is occasioned by the fact that the Louisville. Henderson & St. Louis Railway, a south-bank line operating between Evansville and Louisville, with its northern connections, is in competition by way of Louisville for traffic to Evansville, and by way of Evansville

## CHICAGO AND OHIO RIVER ADJUSTMENT

for traffic to and from Louisville. Owensboro is but a short distance from Rockport, Ind., a terminus of the Southern Railway on the north bank. Owing to the existence of active water competition, the rates to Owensboro are lower than they would naturally be were it not for these conditions. Consequently, the rates are at this time adjusted on the following scale of differentials over the rates established to Evansville, Ind.:

Classes	1	-2	3	4	5	6
Differentials	$7\frac{1}{2}$	$6\frac{1}{2}$	5	5	3	3

As will be seen from Table 6, the Chicago and Ohio River Committee also publishes rates to Indianapolis, Ind. The reason for this is that the tariff-issuing agencies of the southern lines frequently establish through rates from the so-called Indianapolis group of stations to destinations in Southern Territory and by the establishment of rates to Indianapolis by the Chicago and Ohio River Committee rates may be constructed on a combination basis. Similarly, the application of the rates to the Ohio River Crossings is drawn back in some cases so far as to fix, in a great measure, the scale of rates applied to Indianapolis.

As to points of origin, it will be observed that rates are established from Milwaukee and points taking the same rates by adding specified differentials over the Chicago rates. These differentials are not based on distance. Under the original adjustment, which was in effect prior to the advance in rates in Official Classification Territory, the rates from Milwaukee were made the following differentials over the Chicago rates:

Classes	 	 					1	2	3	4	5	6
Differentials	 	 			,	•	6	5	4	3	$\frac{2}{2}$	2

The Chicago rates which were in effect at that time were as follows:

The current scales, however, show that the extent of these differentials has been increased under the advanced rates, inasmuch as the differentials in effect at this time are as follows:

These figures or differentials are very much less than the local rates that apply between Chicago and Milwaukee and are designed to equalize the competition of these respective markets in so far as this traffic is concerned.

# LOCAL COMMODITY RATES

The tariff publications of this committee are quite complete and, in addition to the class rates applying to the Ohio River Crossings, contain all the commodity rates authorized by the member lines of this association, thus eliminating the necessity of referring to other issues for this information.

A representative line of commodity rates, indicating the form in which they are published, appears in Table 7.

Table 7 indicates the method of establishing commodity rates under percentages of existing class rates, as mentioned in an earlier chapter.

The rates shown therein on muriatic acid, for example, are based on 90 per cent of the fifth-class rates shown in Table 6; the rates on sulphate of alumina are based on 90 per cent of the sixth-class rates; on crude arsenic, 83.33 per cent of the sixth-class rates; on asphaltum and asphaltum substitutes, 90 per cent of the sixth-class rates.

It will be observed that the relative differences are maintained in the commodity adjustments; that is, the rates are the same proportion higher as the class rates from or to the same points.

# TABLE 7

# LOCAL COMMODITY RATES TO UPPER OHIO RIVER CROSSINGS

	IN CENTS PER 100 LES. (except as noted)										
		THICAG	0 17.7.	PR	UB4 IV/1	MIT.WALKER WIS					
1	andsta	tions taki	ng same	rates.	and stations taking same rates.						
and the second se		T	0			T	0				
COMMODITY RATES	Ibd.	hio Ind.		č.	Ind	bio nd. Ind.		£3.			
In carloads, except as otherwise	olle,	rti, 0 le, Li Ind Ind any,	0, 10	TO, F	olfs,	Ile, Il Ile, Il VIIIo IDG	Й e	To, I			
provided for herein.	ana	arsor arsor lison	IIIASI	odau	atta	LESVI LESVI LESOT LESOT	llval	्राइट			
	Ibdi	Cine Jeff Mad New	Lou	0 we	Ibal	Cinc Jeff Mar	Lou	0 4 0			
	a	nd points	taking a	ame rate	3	1					
Acid, Muriatic and Sulphuric, C. L., in tank care, also Sulphuric and Nitric Acid, mixed C. L., in tank cars, minimum weight full gallonage capacity of tank	10.9	14.2	15.1	17.2	12.8	<b>16.1</b>	17	19.1			
Alumina, Sulphate of, C. L., in bags, barrels, casks, slaba or in bulk, minimum weight 40,000 lbs	8.6	11.3	12.2	14.3	10 4	13.2	¢4.1	16 2			
Ammoniacal Liquors, Aqua Ammonia, in tank cars, minimum weight full gallonage capacity of tank, C. L.	10.9	14.2	15.1	17.2	12.8	16.1	17	19.1			
Annealing Pots, Burnt, C. L., minimum						1					
weight 20 gross tons, per gross ton	132	•••••	• • • • •	250	174		~ • • • •	292			
Articles of Concrete Manufacture, reinforced or steel-faced, viz: Cribbing, Curbing, Filing, Poles, Posts and Sills, C. L., min- imum weight 40,000 lbs	9.:5	12 6	13.6	15-6	11.6	14.7	<u>15.7</u>	17.7			
Asphalt Rock, C. L., minimum weight 25 gross tons, unless marked capacity of car ia less, in which case the marked capacity of car will govern; but in no case is the minimum weight to be less than 15 gross tons, 4-pcr gross ton		•••••	•••••	228	174	210	220	270			
<ul> <li>Asphaltum and Asphaltum Substitutes, classified N. O. Si no fibrial Classification, in barrels, cakes, drums (iron), sacks or la tauk cars, Minimum weight: in packages erceifed: 40,000 bs; in tank cars as per Official Classification.</li> <li>Automobile Engine or Cars Parts M. O. S.</li> </ul>	7.6	10.1	10.9	13.1	9.3	11.8	12.6	14.8			
Iron, Steel, Brass, Bronze or Copper, racked in cars, C. L., mlnimum weight 30,000 lbs. Note.—Applies only from stations on L. E. & W. R. R.	11.5	•••••	• • • • •.			••••					

# LOWER CROSSINGS

As Chicago and Chicago rate points in Illinois and the lower Ohio River Crossings (Cairo, Gale, Metropolis, and Brookport, Ill.) are in the same state and as the rates are subject to the rules and regulations announced by the Public Utilities Commission of Illinois, the same procedure as previously indicated cannot be followed with respect to the rates applicable upon local traffic from of to these crossings. These rates are made in conformity with the distance scale announced by the state commission and are governed by the Illinois Classification. The rates currently in effect are as follows:

 $\begin{array}{c} \text{Classes} \ldots \ldots 1 \quad 2 \quad 3 \quad 4 \quad 5 \quad 6 \quad 7 \quad 8 \quad 9 \quad 10 \\ \text{To Cairo, III}\ldots 46.6 \quad 38.4 \quad 30.5 \quad 23.9 \quad 19.1 \quad 18.3 \quad 16.9 \quad 14.7 \quad 11.9 \quad 10.7 \\ \text{To Metropolis, III}.47.4 \quad 39.1 \quad 31.3 \quad 24.4 \quad 19.5 \quad 18.8 \quad 17.3 \quad 15 \quad 12.2 \quad 11 \end{array}$ 

In some instances, owing to the difference in classification rating, the rates from Chicago to Cairo, for example, might be much higher than the rates applicable upon the same consignment to one of the upper Ohio River Crossings.

So far as Illinois traffic is concerned, the rates are not blanketed to cover large areas of territory, as is the case in the rates to the upper Ohio River Crossings, but the respective lines scale their rates according to the actual distance from the point of origin to the point of destination.

Similarly, the commodity-rate adjustment is curtailed to a great degree, the list of commodity rates established by the Illinois lines to the lower crossings being by no means as voluminous as that established to the upper crossings.

# CHAPTER V

## THE CHICAGO AND OHIO RIVER ADJUSTMENT-Continued

## GROUPING OF POINTS OF ORIGIN

The association having determined the measure or scale of rates to be applied from Chicago to the various crossings, it remains for the member lines of the association to indicate to what extent the application of these rates shall be extended, that is, from and to what additional points the rates are to be applied.

In Table 8 have been grouped the initial Chicago and Milwaukee lines, together with the groups of stations from which the Chicago and Milwaukee rates have been authorized to apply.

#### TABLE 8

#### POINTS OF ORIGIN

#### Chicago Rates

#### NAME OF RAILROAD

#### STATIONS

Baltimore & Ohio R. R.

- Baltimore & Ohio Chicago Terminal R. R. Belt. Ky. of Chicago
- Chesapeake & Ohio Ry. of Indiana
- Chicago & Alton R. R. Chicago & Eastern Illinois R. R.
- Chicago & Erie R. R.
- Chicago & Illinois Western R. R.
- · Chicago & North Western Ry.

#### Chicago, Indianapolis & Louisville Ry.

Chicago, Milwaukee & Gary Ry. Chicago, Milwaukee & St. Paul Ry.

Chicago River & Indiana R. R. Chicago, Rock Island & Pacific Ry.

Chicago, Terre Haute & Southeastern Ry.

- Chicago, Ill., to Gary, Ind., inclusive Chicago, Ill., to Grasselli, Ind., inclusive
- Argo to West Chicago, Ill.
- Chicago, Ill., to Griffith, Ind.
- Chicago to Argo, Ill. Chicago, Ill., to Wellington, Ill. Chicago, Ill., to Griffith, Ind.
- Gary, Hawthorne, McCook, and Willow Springs, Ill.
- Chicago to Proviso, Ill.; Maplewood to Des Plaines, Ill.; Deering to Rogers Park, Ill.; Cragin, Ill., to
- Greenwood St. (Chicago) Chicago, Ill., to Hammond, Ind.; Michigan City to South Wanatah, Ind.

Aurora to Delmar, Ill.

Chicago to Edgebrook, Ill.; Buena Park to Rogers Park, Ill.; Deering to Mannheim, Ill.

Chicago, Ill.

- Chicago to Blue Island and Morgan Park, Ill.
- Chicago to Delmar, Ill.

### TABLE 8—Continued

#### POINTS OF ORIGIN

#### NAME OF RAILROAD

Cleveland, Cincinnati, Chicago & St. Louis Ry.

Elgin, Joliet & Eastern Ry.

Graham & Morton Transportation Co.

Grand Trunk Ry. System Illinois Central R. R.

Indiana Harbor Belt R. R. Lake Erie & Western R. R. Michigan Central R. R.

Minneapolis, St. Paul & Sault Ste. Marie Ry. New York Central R. R.

New York, Chicago & St. Louis R. R. Pennsylvania Co.

Pere Marquette Ry.

Pittsburgh, Cincinnati, Chicago & St. Louis Ry. St. Joseph Steamship Co. Vandalia R. R.

Wabash Ry.

#### STATIONS

- Chicago to Blue Island, Ill.; Seneca to Essex, Ill.; Benton Harbor, Mich., to Goshen, Ind. Porter, Ind., to Barrington, Ill.;
- South Wilmington to Caton Farm, TD.

St. Joseph and Benton Harbor, Mich.

- Chicago, Ill., to Granger, Ind.
- Chicago to Harvey, Ill.; Cheltenham to Blue Island, Ill.
- All stations
- Michigan City to Tyner, Ind.
- Chicago, Ill., to Niles, Mich.; Jcliet, Ill., to Benton Harbor, Mich.
- Chicago to Des Plaines, Ill.
- Chicago, Ill., to Goshen, Ind.; Chi-cago, Ill., to Danville, Ill.; South Bend, Ind., to Howe, Ill. Chicago, Ill., to Wheeler, Ind. Chicago, Ill., to Wheeler, Ind.; Ber-
- nice, Ill., to East Chicago, Ind.
- Chicago, Ill., to Benton Harbor, Mich.; Thomaston, Ind., to Belfast, Ind.; Scotdale to Buchanan, Mich.
- Chicago, Ill., to Hartsdale, Ind.

St. Joseph, Mich.

- South Bend, Nutwood, Lakeville, La Paz Junction, and Harris, Ind.
- Chicago, Ill., to Lakeville, Ind.; Western Indiana Junction, Ind., to Manhattan, Ill.

#### Milwaukee Rates

Chicago & North Western Ry.

- Chicago, Milwaukee & St. Paul Ry.
- Chicago, Racine & Milwaukee Lines Steamers Elgin, Joliet & Eastern Ry.

Goodrich Transit Co.

- Grank Trunk Ry. System
- Hill Steamboat Line Minneapolis, St. Paul & Sault Ste. Marie Ry. Pere Marquette Ry.
- Evanston, Ill., to Bay View, Wis.; Milwaukee and White Fish Bay, Wis.; Blodgett, Techny, North-field, and Niles Center, Ill. Racine to Dover, Wis.

Burlington to Templeton, Wis.

Milwaukee, Wis.

Lake Zurich to Waukegan, Ill.

Milwankee and Racine, Wis.

- Milwaukee, Wis., via across-lake route
- Kenosha, Wis., and Waukegan, Ill.
- Feehanville, Ill., to Milwaukee, Wis., inclusive
- Wis., via across-lake Milwaukee, route

# CHICAGO AND OHIO RIVER ADJUSTMENT

In so far as this procedure is concerned, there is a lack of uniformity. This is evidenced by the fact that the Chicago, Indiana & Southern Railroad (now part of the New York Central Railroad) extends the Chicago adjustment as far south as Danville, Ill., and from South Bend, Ind., on the east, to and including Howe, Ill. (which is near Streator), on the west. Likewise, the New York Central Railroad extends the application to and including Goshen, Ind., on the east. On the other hand, the Baltimore & Ohio System, which may be considered a competitor of the former, extends the application to Gary, Ind., which is in the switching limit of Chicago.

This does not mean, however, that the Baltimore & Ohio System does not extend the Chicago rates as far east as the New York Central Railroad, but that it has not placed the publication of the rates from all its stations included in this group under the jurisdiction of this committee, preferring to arrange for the publication of rates from additional points itself.

# GROUPING OF POINTS OF DESTINATION

The same course is followed with respect to points of destination, the application of the Cincinnati rates being extended, so far as the terminal lines are concerned, to include stations at no small distance from Cincinnati or other Ohio River Crossings. The list of the groupings appears in Table 9.

## TABLE 9

## POINTS OF DESTINATION Cincinnati Rates

NAME OF RAILROAD Baltimore & Ohio Southwestern R. R.

Chesapeake & Ohio Ry.

#### STATIONS

- Aurora, Ind., to Loveland, Ohio, inclusive; Butlerville to Cochrane, Ind., inclusive
- Covington, Dayton, Newport, and Bellevue, Ky.

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### TABLE 9—Continued

POINTS OF DESTINATION

#### NAME OF RAILROAD

Chesapeake & Ohio Ry. of Indiana

Cincinnati, Hamilton & Dayton Ry.

Cincinnati, Lebanon & Northern Ry.

Cincinnati Northern R. R.

- Cleveland, Cincinnati, Chicago & St. Louis Ry.
- Pittsburgh, Cincinnati, Chicago & St. Louis Ry.

Cincinnati, Brighton, Summit. Bridgetown, and Miami, Ohio Cincinnati to Schenck, Ohio, inclu-

STATIONS

- sive Cineinnati to Lebanon, Ohio, inclusive
- Cincinnati to Lockland and Cleves, Ohio, inclusive
- Cincinnati to Lockland, Ohio, and Aurora, Ind., inclusive
- Cincinnati to Oregonia, Ohio, inclusive

Evansville Rates

Chicago & Eastern Illinois R. R.

Cleveland, Cincinnati, Chicago & St. Louis Ry. Illinois Central R. R.

Louisville & Nashville R. R.

Louisville, Henderson & St. Louis Ry.

Louisville, New Albany & Corydon R. R.

Southern Ry.

Mt. Vernon and Evansville, Ind., tc but not including Vincennes, Ind.

Evansville, Ind., to but not including Mt. Carmel, Ill.

Evansville to Hovey, Ind., inclusive: Riverton to Lenore, Ind., inclusive

Evansville and Mt. Vernon, Ind.

Evansville, Ind.

Nevin and Corydon, Ind.

Evansville to Norton, Ind., inclusive; East Mt. Carmel to Parkwood, Ind., inclusive

#### Indianapolis Rates

Chicago, Indianapolis & Louisville Ry.

Cincinnati, Hamilton & Dayton Ry.

Cleveland, Cincinnati, Chicago & St. Louis Ry.

Illinois Central R. R.

Lake Erie & Western R. R.

Pittsburgh, Cincinnati, Chicago & St.

Louis Ry. Vandalia R. R.

Indianapolis to Roachdale, Ind. Beech Grove, North Indianapolis, Sunnyside, West Side, and Indiauapolis, Ind.

Indianapolis, Ind.

Indianapolis, Ind.

Indianapolis to Atlanta, Ind.

Indianapolis, Ind.

Indianapolis, Ind.

Jeffersonville, Ind. Jeffersonville, Ind. Jeffersonville, Ind.

#### Jeffersonville Rates

Baltimore & Ohio Southwester	rn R.	R.
Cleveland, Cincinnati, Chicag	go &	St.
Louis Ry.		~.

Pittsburgh, Cincinnati, Chicago & St. Louis Ry.

Southern Ry.

## Jeffersonville, Ind.

#### Louisville Rates

Baltimore & Ohio Southwestern R. R. Louisville, Ky. Chicago, Indianapolis & Louisville Louisville, Ky. Ry.

# CHICAGO AND OHIO RIVER ADJUSTMENT

### TABLE 9—Continued

POINTS OF DESTINATION

#### NAME OF RAILROAD

STATIONS

Cleveland, Cincinnati, Chicago & St. Louis Ry. Louisville, Henderson & St. Louis Ry.

Southern Ry.

#### New Albany Rates

Baltimore & Ohio Southwestern R. R. Chicago, Indianapolis & Louisville Ry. Southern Ry. New Albany to Lovett, Ind., inclusive New Albany, Ind.

New Albany, Ind.

Louisville, Ky.

Louisville, Ky.

Louisville, Ky.

#### Owensboro Rates

Louisville & Nashville R. R. Louisville, Henderson & St. Louis Ry. Henderson and Owensboro, Ky. Henderson. Macco, Owensboro, and Stauley, Ky.

The slight difference existing between the rates to the upper and the lower Ohio River Crossings, while of no particular importance in connection with local traffic, would, in many cases where competitive traffic is concerned, be sufficient to control the gateway through which the traffic is forwarded.

Diagram 7 indicates several of the through routes which might be employed in forwarding goods to Chattanooga, Tenn. The fact that the rates from the southbank points to Chattanooga are the same, whether the traffic moves through Cairo, Ill., Louisville, Ky., or Cincinnati, Ohio, necessitates that the rates up to the crossings be the same in order that all routes may be placed on a parity in so far as transportation charges are concerned. The rates currently maintained from the several groups of origin to the Ohio River Crossings are shown in Table 10.

## TABLE 10

CLASS	RATES	FROM	Northern	Points	$\mathbf{OF}$	Origin	TO	Ohio	RIVER	
CROSSINGS										

	1		RATE	S IN	CEN	TS PH	ER 10	0 Po	UNDS	
FROM	то				C	lasse	s			
	, t	1	2	3	4	5	6	R25	R26	R28
	Indianapolis, Ind	145	38.5	30	22.5	16	12.5	32.5	24	25
Chicago	Cincinnati, Ohio } Evansville, Ind }	51	43.5	34	25.5	18	14.5	37	27	28.5
Ill.	Jeffersonville, Ind. ( New Albany, Ind. (	52	44	35	26	18	14.5	37.5	28	29
	Louisville, Ky Owensboro, Ky	53 58.5	45 50	36 39 ′	27 30.5	19 21	$\begin{array}{c} 15.5\\ 17.5\end{array}$	$\begin{array}{c} 38.5\\ 42.5\end{array}$	29 31	<b>3</b> 0 33.5
	Indianapolis, Ind	147	40	31.5	23.5	16.5	13	34	25	26.5
	Cincinnati, Ohio	54	46	36	27	19	15	39	29	30
Peoria,	Evansville, Ind	51	43.5	34	25.5	18	14.5	37	27	28.5
Ill.	New Albany Ind (	54	46	36	27	19	15	39	29	30
	Louisville, Ky	55	47	37	28	20	16	40	30	31
	Owensboro, Ky	58.5	50	39	30.5	21	17.5	42.5	32	33.5
	Indianapolis, Ind	51	43.5	34	25.5	18	14.5	37	27	28.5
Milwau-	Cincinnati, Ohio } Evansville, Ind }	57	48.5	38	28.5	20	16.5	41	31	32
kee, Wis.	Jeffersonville, Ind. ) New Albany, Ind. (	58	49	39	29	20	<b>16.</b> 5	41.5	31	32.5
	Louisville, Ky Dwensboro, Ky	59 64.5	50 55	40 43	30 33.5	21 23	$\begin{array}{c} 17.5\\ 19.5\end{array}$	42.5 47	32 34.5	33.5 37
	Indianapolis, Ind	58.5	49.5	39.5	29.5	21	17.5	42	31.5	33
Daven.	Cincinnati, Ohio	63	53.5 53	42 39.5	31.5	22.5 23	18.5	40.0 45	33.5 31.5	33.5
port, Ia.	Jeffersonville, Ind. )	61	53	39.5	30.5	23	19.5	45	31.5	33.5
	Louisville, Ky Owensboro, Ky	62 68.5	54 59.5	$\begin{array}{c} 40.5\\ 44.5\end{array}$	$\begin{array}{c} \textbf{31.5} \\ \textbf{35.5} \end{array}$	24 26	$\begin{array}{c} 20.5\\ 22.5\end{array}$	46 50.5	$\begin{array}{c} 32.5\\ 36.5\end{array}$	34.5 38.5
Indian- apolis, Ind.	Cincinnati, Ohio Evansville, Ind Jeffersonville, Ind New Albany, Ind Louisville, Ky Owensboro, Ky	33.5  42.5  35.5  35.5  36.5  50	30 36 30 30 31 42.5	24 28.5 24 24 25 33.5	18 21.5 18 18 19 26.5	$12.5 \\ 15 \\ 12.5 \\ 12.5 \\ 13.5 \\ 18$	10 12 10 10 10 11 15	25.5 30.5 25.5 25.5 26.5 36	19 23 19 19 20 28.5	20 24 20 20 21 29

¹ Rates from all points except Indianapolis are governed by the Southern Classification. Rates from Indianapolis, however, are governed by the Official Clasisfication. ² If the rates named from Chicago governed by the Southern Classi-fication make a lower charge on shipments than the rates named from Indianapolis governed by the Official Classification, such lower charge applies from Indianapolis.

These rates apply only to the north-bank crossings. The rates to the south-bank crossings are made arbitraries or bridge tolls higher than the north-bank rates,

the rates to Louisville, Ky., generally being 1 cent per 100 pounds higher than the rates to Jeffersonville or New Albany, Ind., and the rates to Paducah, Ky., being 2 cents per 100 pounds higher than the rates to Brookport, Ill. In the case of Louisville, the figure represents the bridge toll, as previously explained, and in the case of Paducah, the cost of ferry or transfer in the interchange of traffic between north-bank and south-bank lines.

In the application of the rates under this adjustment, they are confined to the crossings proper and not applied to intermediate or interior points.

As to originating points, however, additional groups are incorporated, as may be seen from Table 10, namely, the Davenport and Peoria groups. This greatly increases the area on the north and west from which these rates are applied.

The volume of northbound classified traffic¹ is much less than that in the opposite direction. This is reflected in the fact that the northbound rates are somewhat higher than the rates in the opposite direction.

In conclusion, the foregoing indicates, to a great degree, the influence that competition of various kinds exerts upon the freight rate structures of this country.

¹ Traffic moving on class rates.

# CHAPTER VI

## ADJUSTMENT IN TRUNK LINE FREIGHT ASSOCIATION TERRITORY

## DEVELOPMENT

Formerly, there were many distance tables used as a basis for rates by the carriers in Trunk Line Territory. More recently, however, most of these distance tables have been published as specific rates, although the speeific rates are, in most cases, identical with the old distance tables. There are a number of distance tariffs still applicable on the eastbound movement of coal within Trunk Line Territory.

Specific rates differ from distance tables in that a rate is named specifically to apply from, say, New York City to Buffalo, N. Y., irrespective of the distance, whereas in the distance table, graduated rates are indicated, as shown in the Central Freight Association, Michigan, and Illinois scales, involving the determination of the distance before the rate can be known.

The distance tables employed in this territory, contrary to those employed in Central Freight Association Territory, are by no means uniform; that is, one carrier's scale for a 5-mile or a 10-mile distance may vary considerably from that employed by another line.

A survey of this territory from the Atlas of RailwayTraffic Maps will suffice to show that the rail carriers are exposed to a great degree to the influence of active and compelling water competition. The Hudson River

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and Atlantic Ocean are on the east, and the Erie Canal and Great Lakes are on the north. The coast line is pierced by the Susquehanna. Delaware and Potomac rivers, which penerate far into the interior of the territory and afford navigable stages of water during the greater part of the year.

As an example, the rates between New York and Newburgh, Poughkeepsie, Albany, and other landings on the Hudson River will be found to be quite low. This is accounted for by the fact that the rail lines are compelled to meet the active competition of the boat lines. Add to this the highly developed competition of the numerous electric interurban lines and the fact that the motor truck has expanded considerably the limit of industrial and commercial delivery service, and the reason for the lack of uniformity in the various distance scales adopted by the individual carriers may be readily appreciated.

Representative water rates from New York, which, however, are more or less subject to fluctuation, are reproduced in Table 11 to give an idea of the low rates that obtain between the respective port cities in this territory.

### TABLE 11

		RATES ² I	n Cents	PER 100	Pounds	
FROM NEW YORK TO			Classe	s		
A DOME THIS A COMME TO	1	2	3	4	5	6
Utica, N. Y	17	15	14	12	11	10
Syracuse, N. Y	20	18	15	12	11	10
Buffalo, N. Y	21	19	15	12	11	- 10
Cleveland, Ohio	40	35	28	19	17	15
Detroit Mich	-11	37	29	20	17	16

CLASS RATES APPLICABLE VIA WATER LINES1 FROM NEW YORK CITY

¹ Via New York and Western Canal Co., Inc. ² Governed by the Official Classification,

As a rule, the boat lines dominate the rates to points they serve and the rail lines must determine what higher rates the rail service can command.

As many of the more important points are near each other, it is not surprising to find express companies operating horse-drawn or motor-propelled vehicles competing for the trade of these communities. Especially is this true in the case of New York, Philadelphia, and Boston. The field of their activities is limited, of course, in that they cannot move the quantities of crude articles that can be transported by rail or vessel, but in connection with package freight, they may be viewed as aggressive competitors. Particularly where the higher-class (smallpackage) traffic is concerned, the railroads must take this competition into account in adjusting their schedules.

# Adjustment to Interior Points

The present adjustment of rates to interior points bears a general relationship to the rates applying between Chicago and New York. The rates between New York rate points and Pittsburgh-Erie rate points are made 60 per cent of the rates currently in effect between New York and Chicago. For the six classes, they are on the following scale:

Classes	1	2	3	4	5	6
Rates	54	47.5	36	25	21.5	18

Between Philadelphia rate points and Pittsburgh-Erie rate points, the rates for the six classes are arbitrarily made by the deduction of specified differentials from the rates applying from New York to the Pittsburgh-Erie group. The differentials are as follows:

Classes	1	2	3	4	5	6
Differentials	6	6	2	2	2	2

Likewise, between Baltimore rate points and Pittsburg-Erie rate points, the rates are made by deducting the fol-

#### ADJUSTMENT IN TRUNK LINE TERRITORY 73

lowing differentials from the rates applying between New York and the Pittsburgh-Erie group:

Classes					 					1	2	3	4	5	6
Differentials	• • •	• • •	• • •	• • •	 • •	• •	•	• •	•	8	8	3	3	3	3

Table 12 sets forth the adjustment of rates applying to and from the so-called Western Termini from and to other seaports and interior base points in Trunk Line Territory.

# TABLE 12

BASES FOR RATES FROM EASTERN POINTS OF ORIGIN TO OR FROM WESTERN TERMINI

M		In	CENT	S PE	NDS				
TE	RATES A	PPLY			Cl	Remarks			
			1	2	3	4	5	6	
	Betv	veen							
1	Boston, Mass. Portland, Me. Brunswick, Me.	Pittsburgh-Eric rate points	5	4	3	3	2 <u>1</u> .	2	Over rates from Pittsburgh or Erie to New York
	Hartford, Conn.	Buffalo rate points	5	5	21/2	$2\frac{1}{2}$	$2\frac{1}{2}$	2	Over rates from Buffalo, N. Y., to New York
2	New York, N. Y.	Pittsburgh'-Erie rate points							60 per cent of Chicago-New York rates
		Buffalo rate points	48	41.5	34	22	19.5	16	Erie-Philadelphia rates
3	Philadelphia, Pa.	Pittsburgh-Erie rate points	6	6	2	2	2	2	Under New York rates
		Buffalo rate points							Philadelphia-Erie rates
4	Baltimore, Md.	Pittsburgh-Erie rate points	8	8	3	3	3	3	Under New York rates
		Buffalo rate points							Philadelphia-Erie rates
	Eastbound								
5		Pittsburgh rate points							Pittsburgh-New York rates
	Albany, N. Y.	Erie rate points							92 per cent of Erie-New York rates

# TABLE 12-Continued

## BASES FOR RATES FROM EASTERN POINTS OF ORIGIN TO OR FROM WESTERN TERMINI

TEM	RATES	Apply	IN	Cen	TS PI	ER 10	REMARKS		
H			1	$\overline{2}$	3	4	5	6	
6	We Albany, N. Y.	stbound Pittsburgh-Erie rate points							Class rates same as Philadelphia- Pittsburgh rates; commod- ity rates 80 per per cent of New York-Pitts- burgh rates
	Eas	stbound							
7	Utica, N. Y.	Pittsburgh rate points							92 per cent of Pittsburgh-New York rates
,		Erie rate points							80 per cent of Erie-New York rates
	We	stbound							
8	Utica, N. Y.	Pittsburgh-Erie rate points							Class rates same as Philadel- phia-Pittsburgh rates; commod- ity rates 80 per cent of New York-Pitts- burgh rates
	Eas	tbound							
9	Syracuse, N. Y.	Pittsburgh rate points Erie rate points							84 per cent of Pittsburgh- New York rates 75 per cent of
									Erie-New York rates
	N'e	stbound							
10	Syracuse, N. Y.	Pittsburgh-Eric rate points							Class rates same as Syracuse- Cleveland rates; commod- ity rates 70 per cent of New York-Pitts- burgh rates
	Eas	tbound							
11	Rochester, N. Y.	Pittsburgh rate points							72 per cent of Pittsburgh- New York rates 62 per cent of
		interact points							Erie-New York rates

### TABLE 12—Continued

BASES	FOR	RATES	FROM	EASTERN	Points	$\mathbf{OF}$	Origin	TO	OR	FROM
			I	Vestern	TERMINI	[				

TEM	RATES A	APP1.Y	IN	CE:	rs	PER 10 Classe	Remarks		
		1	2	3	4.	5	6		
	Westbound								
12	Rochester, N. Y.	Pittsburgh-Erie rate points							Same as rates from Syracuse
	Bet	ween							
		Pittsburgh rate points						Augustus (1997)	Same rates as from Columbus, Ohio, to Balti- more
13	Virginia Cities	Buffalo, Dunkirk, and interior New York state points	20	17	13	9	8	6	Över Baltimore rates

The bases for the construction of rates delineated in items 1, 2, 3, 4, and 13 of Table 12 apply to both eastbound and westbound rates, whereas the bases shown in the remaining items apply only in the direction indicated.

The first item shows that the rates between the Pittsburgh-Erie group and the more important New England points are made by the addition of arbitraries to the rates which apply between the Pittsburgh-Erie group and New Similarly, the rates between these points and York. Buffalo are made by the addition of the figures indicated to the rates which apply between New York and Buffalo. For example, item 2 shows that the rates between Buffalo and New York are on a 48-cent scale. These rates are arbitrarily established on a somewhat lower basis than that which obtains between New York and the Pittsburgh-Erie group, being the Philadelphia-Erie rates. This depression in rates is ascribed to the competition between the rail lines and the water lines operating on the Erie Canal and Hudson River. The rates between Buffalo and Boston are made by adding the arbitraries indicated in

item 1 to the New York rates indicated in item 2, resulting in through rates as follows:

Taking the next item in the table, the rates are made in a similar manner, namely, by deducting the figures indicated from the rates that are established between the Pittsburgh-Erie group and New York. The New York rates are made 60 per cent of the Chicago-New York rates, which are as follows:

The following figures represent the rates between the Pittsburgh-Erie group and New York.

Classes	1	c1	CO	4	5	6
Rates	54	47.5	36	25	21.5	18

By deducting the differentials previously set forth, the following rates are arrived at, which apply between the Pittsburgh-Erie group and Philadelphia:

Classes	1	2	3	4	5	6
Rates	48	41.5	34	23	19.5	16

These rates are also applied between Buffalo and Philadelphia.

The Baltimore, Md., rates are similarly obtained, with the exception that the differentials on the first-class and second-class rates are increased 2 cents and on the lower classes 1 cent per 100 pounds, resulting in a corresponding difference in the net rates.

From Buffalo, N. Y., to Albany, Utica, Syracuse, and Rochester, N. Y., no specific adjustment is established. As the New York Central Railroad is the short line to these points they are subject to the dictates of that line as to what rates will be established. As a rule, they are made

# ADJUSTMENT IN TRUNK LINE TERRITORY 77

on the mileage scale adopted for the particular division of that railroad.

The traffic from the Erie-Pittsburgh group, however, is competitive and may select several routes via which to move. Particular attention is directed to the fact that the adjustment prescribed varies according to the direction of the traffic. Consequently, care should be taken to observe whether the rates desired are those applicable on eastbound or on westbound traffic.

Taking the Albany adjustment; assume that it is desired to construct the second-class rate from Pittsburgh to Albany. The first section of the item states that the rates are the same as the Pittsburgh-New York rates. As these rates are made 60 per cent of the Chicago-New York rates, by taking 60 per cent of 79, 47.5 cents is obtained as the second-class rate from Pittsburgh to Albany. If the direction of the traffic were westbound instead of eastbound, the rate would be made the same as that from Philadelphia to Pittsburgh, namely, 41.5 cents.

The distance to Utica, N. Y., from Erie and Pittsburgh being substantially the same, the bases used in obtaining the westbound rates between these points are approximately the same as those applied in the Albany adjustment. Consequently, the illustration given there will suffice for this point as well.

The westbound adjustment of rates from Syracuse, N. Y., to the Pittsburgh-Erie rate groups is somewhat more complicated than the preceding adjustments set forth in the table in that it requires the construction of the rates to Cleveland, Ohio (a Central Freight Association point). This adjustment is discussed in a later chapter in this treatise, but for the purpose of illustrating the feature at hand, it seems well to give an illustration of it at this time. Map 3 of the *Atlas of Railway Traffic Maps* indicates that Cleveland, Ohio, is in 71 per cent territory. Consequently, the rates from New York to Cleveland,

which are the base rates for subsequent computation, must first be ascertained. This is done by taking 71 per cent of the New York-Chicago rates, resulting in the following scale.¹

The rates from Syracuse to Cleveland are the following amounts less than from the New York-Cleveland rates:²

the rates from Syracuse to Cleveland being as follows:

In some instances the carriers establish rates which vary with the direction of the movement. The business from Syracuse to Erie may be relatively unimportant and little or no traffic actually involved, whereas the eastbound movement may be heavy, and a somewhat lower rate would therefore be justified.

What has been said in connection with the Syracuse adjustment holds good in so far as the Rochester, N. Y., adjustment is concerned.

The rates between the Virginia Cities and Pittsburgh are made the same as those applying from Columbus, Ohio, (a 77 per cent point) to Baltimore, Md. The rates between Buffalo, Dunkirk, and interior New York state points are made by the addition of arbitraries to the rates between the same points and Baltimore. The through rates between Buffalo and Newport News, Va., are as follows:

Classes Rates	1 66.5	$\frac{2}{58}$	3 43	$\begin{smallmatrix}&4\\29.5\end{smallmatrix}$	$5 \\ 24.5$	<b>6</b> 20
¹ See Table 17.						

# ADJUSTMENT IN TRUNK LINE TERRITORY 79

From points located in Trunk Line Territory, other than those mentioned, the rates are made on the mileage scales of the carriers, the rates established to and from more distant points not being exceeded at intermediate points. The figures so made are observed as far as possible.

# Commodity Rates

Aside from coal, lumber, and iron, there are comparatively few commodity adjustments employed within this territory as contrasted with other sections of the country. There are, however, numerous commodity rates established on traffic imported through the North Atlantic Ports, which are somewhat less than the class rates that would obtain. In the application of rates, the general rule for the use of the differentials is that when the commodity rate is the same as a class rate, the class differential applicable to that class shall be added or subtracted, as indicated; but when the commodity rate is not the same as a class rate, the differential for the next higher class is to be employed. For the purpose of illustration, suppose that a commodity rate of 30 cents is established from Buffalo to New York; as this rate is higher than the third-class rate, the second-class differential of 5 cents would be used in making the rate to Boston.

# CHAPTER VII

### ADJUSTMENT IN NEW ENGLAND FREIGHT ASSOCIATION TERRITORY

# TRAFFIC CHARACTERISTICS

This territory, surrounded almost entirely by navigable water and comprising, as it does, the smallest rate association territory in so far as area is concerned, presents in its rate structure many of the peculiarities found in the Trunk Line adjustment that are forced on the rail carriers in order to equalize the effect of the water competition.¹

The southern tier of states (Massachusetts, Rhode Island, and Connecticut) supports the greatest per cent of population and in it are located the greater number of the large manufacturing plants, textile mills, and other industries for which the New England group of states is noted. Two of the largest cities in the country are located therein and offer profitable markets at which to dispose of the manufactured wares.

Owing to the location of these cities, Boston on the east and New York on the west, the average length of haul on traffic between points in this territory is very much less than obtains in other sections of the country.

As illustrating the general traffic conditions that obtain in the New England States, the conclusions of the Interstate Commerce Commission, based on the investigations of that body with respect to the operation and practices of carriers in this territory, are especially illuminating and for that reason are here reproduced.

¹See Map 2, Atlas of Railway Traffic Maps.

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### RATES OF TRANSPORTATION

For many years the railroad monopoly of New England has been more complete than in any other considerable section of this country. The Boston & Maine has almost exclusively occupied the northern portion of that section, while the New Haven has enjoyed the same exclusive privileges in the south. It is interesting to inquire how the rates of transportation, both freight and passenger, there compare with other parts of the country.

The average receipts per ton-mile upon the New Haven Railroad for the year 1911 were 1.39 cents. This is probably a higher per ton-mile average than is shown by any other large railroad system in the United States. It does not, however, follow from this that the rates under which that road operates are therefore higher.

This is well illustrated by a reference to the same figure upon the Boston & Maine. In 1900 the ton-mile receipts of that system were 1.439 cents, somewhat greater than those then or now upon the New Haven. In 1901 that figure had fallen to 1.134 cents, the reason being that, beginning July 1, 1900, the Boston & Maine began to operate and so included in its return to this Commission for that year the Fitchburg Railroad. That railroad handles a large amount of through traffic of a low grade and paying a low rate, and this tends to reduce the average rate which for that company in 1900, the year before it was absorbed by the Boston & Maine, had been 0.798. For the year 1911 the ton-mile receipts of the Boston & Maine were 1.095 cents.

While, therefore, the average ton-mile receipts of the New England railroads are probably higher than those in any other section of this country where traffic conditions are fairly comparable with New England, this figure has but slight significance as bearing upon the relative transportation charge.

For the purpose of the comparison representative eities located in . . . various sections have been selected, namely, Boston, New York, Pittsburgh, Cincinnati, and Chicago. Rates from Boston are exclusively within the limits of New England; from New York they apply both into New England upon the east and into trunk line territory upon the west; from Pittsburgh we have rates into trunk line territory going east and into Central Freight Association Territory going west. Cincinnati and Chicago are exclusively in Central Freight Association Territory, save that rates have been examined from Cincinnati south into southern territory.

In addition to the principal cities above selected we have also taken certain smaller towns—in New England, Burlington, Vt., and Concord. N. H.; in trunk line territory, Scheneetady, N. Y., and Scranton, Pa.; in Central Freight Association Territory, Akron, Ohio, and Springfield, Ill.

The rates selected for purposes of comparison have been, first of all, the class rates. While in the three territories under consideration many commodity rates are in effect which are less than the class rates and which move an enormous volume of traffic and are of vital consequence to the communities served, still the preponderating movement of merchandise traffic, strictly speaking, is under the class rates or under rates which are a percentage of the class rates, so that the most comprehensive and fairest comparison probably arises upon a statement of the relative class rates.

Generalizing the results of these comparisons, without attempting to give the figures themselves, we find that class rates in Central Freight Association Territory are distinctly lower than in New England, especially on classes 5 and 6. These two classes move a very large amount of carload traffic, being the two classes which apply very generally to carload business. Class rates from New York and Boston to New England points are about . the same as those from New York and Pittsburgh into trunk line territory.

Class rates from interior New England points appear to be rather higher than corresponding rates in both trunk line and Central Freight Association Territories.

We have also instituted a comparison between rates from these same points on three or four of the principal commodities.

Coal is not produced in New England, but is extensively consumed. Coal rates from the various seaports of New England to near-by interior points are uniformly high as compared with rates for similar distances in the other territories under consideration. Rates to more distant interior points are not so extravagant and are often low. The reason for this appears to be that coal reaches the various ports of New England by water and is from thence distributed by rail. This water-and-rail route competes with the all-rail route, and the purpose of these high rates to near-by points is to maintain the all-rail rate.

What has been said as to coal applies to pig iron. The rail rate to the near-by point is usually extremely high, and for the same reason apparently.

Lumber is largely produced in New England, and the rates upon that commodity between points in New England compare favorably with those in trunk line and Central Freight Association territories for like distances.

Rates on grain are much higher in New England than in these other territories, but this is not a matter of much signifi-

cance, since comparatively little grain is raised in New England which is subsequently transported by rail. The grain which New England consumes comes mainly from the west upon rates which must be considered low.

Hay is largely produced and transported in New England, and the rates upon this commodity are rather more favorable than in the other territories. Generally speaking, hay moves under the fifth-class rate, but in New England the bulk of the movement is under commodity rates, lower than this class rate.

Our examination, which has been a rather extended one, fairly indicates that freight rates between points in New England, while somewhat higher in many instances, compare favorably upon the whole with those in trunk line territory and Central Freight Association Territory. They are lower than corresponding interstate rates in other parts of the country, although not as low in some instances as the commission-made rates of several states in this outside territory.

It should be noted in this connection that the cost of handling freight is greater in New England than in trunk line and Central Freight Association Territory and, indeed, in most other parts of the country.

1. The haul in New England is shorter—93 miles as against 138 miles in the United States as a whole.

2. The switching service in New England is much greater. The proportion of locomotive switching mileage to locomotive freight mileage is 59 per cent in New England, as compared with 43 per cent in the whole country.

3. The loading in New England is lighter. The average load, including both loaded and empty cars, is 10.5 tons per car in New England, as compared with 13.4 in the United States. The average load per loaded car is 14.8 tons in New England as against nearly 20 for the United States.

4. The price of coal in New England is distinctly higher. The defendants claim that had the Boston & Maine been able to own its coal upon its tenders at the same price as the Pennsylvania Railroad its operating expenses for the year 1912 would have been \$2,500,000 less than they were. Without subscribing to the accuracy of this figure, it is certain that the greater expense of fuel adds materially to the cost of operation in New England as compared with most other portions of the United States.²

In explanation of the low rates charged by both water and rail lines, it is necessary only to call attention to the

²27 I. C. C. Rep. 572-76 (1913).

fact that New England is guite a distance from the sources of supply of raw materials that are necessary to enable the mills and manufactories located in the territory to continue their operations. New England is famed for the manufacture of boots, shoes, leather goods, textiles, and machinery, but there is a very small production of live stock and in consequence the hides from which the finished product is made must be bought from other sections. The same holds good with respect to cotton, wool, and iron, from which it may be seen that the area itself produces but little of the crude or raw materials. Consequently, the bases of rates must be such, and the rates themselves so adjusted, as to make possible the assembling of raw materials at points of manufacture, such as the shoe factory, the textile mill, and the cutlery factory, and the distribution of finished articles to other points at a profit.

It is not surprising, therefore, that as a whole this system of rates meets with general satisfaction and is subject to less complaint on the part of the shipping public than any other in the country. Practically the only grounds for complaint have been the fixing of the so-called differential adjustment of rates from and to points in Trunk Line and Central Freight Association territories, which, it is alleged, places Boston at a disadvantage as compared with New York, Philadelphia, Baltimore, and other North Atlantic Ports. This phase of the question, however, is taken up in the adjustment of rates under the percentage system, which is set forth in a later chapter of this treatise.

# THE NEW ENGLAND SCALE OF CLASS RATES

As illustrative of the general measure of rates in this territory, that obtaining on the Boston and Maine Railroad affords a very excellent basis, as it is not only one of the most recent (having been made effective April 1, 1914), but also scientifically arranged in that the lower classes bear a definite relationship to the first class.

This scale was adopted after protracted hearings which were participated in jointly by the Interstate Commerce Commission, the public service commissions of several states, and the representatives of the carriers and the public.

## TABLE 13

MILEAGE SCHEDULE OF CLASS RATES' FOR USE ON CLASS-A ROADS²

MILES	1	2	3	4	5	6	MILES	1	2	3	4	. 5	6
5	$\overline{20.5}$	17.5	13.5	10.5	7	5.5	200	48.5	41	$\overline{32.5}$	$\overline{24.5}$	17	13.5
10	22	18.5	14.5	11	7.5	6	210	49	41.5	33	24.5	17	13.5
15	23	19.5	15.5	11.5	8	6.5	220	49.5	42	33	25	17.5	14
20	24	20.5	16	12	8.5	6.5	230	50	42.5	33.5	25	17.5	14
25	25.5	21.5	17	13	9	7	240	50.5	43	34	25.5	17.5	14
30	26.5	22.5	18	13.5	9.5	7.5	250	51	43.5	34	25.5	18	14.5
35	27.5	23.5	18.5	14	9.5	7.5	260	52	44	35	26	18	14.5
40	29	24.5	19.5	14.5	10	8	270	52.5	44.5	.35	26.5	18.5	14.5
45	30	25.5	20	15	10.5	8.5	280	53	45	35.5	26.5	18.5	15
50	31	26.5	21	15.5	11	8.5	290	53.5	45.5	36	27	18.5	15
55	31.5	27	21	16	11	9	300	54	46	36	27	19	15
60	32	27	21.5	16	11	9	320	55	47	37	27.5	19.5	15.5
65	33	28	22 .	16.5	11.5	9	340	56.5	48	38	28.5	20	16
70	33.5	28.5	22.5	17	11.5	9.5	360	57.5	49	38.5	29	20	16
75	34	29	23	17	12	9.5	380	58.5	49.5	39	29.5	20.5	16.5
80	34.5	29.5	23	17.5	12	9.5	400	60	51 ·	40	30	21	17
85	35	30	23.5	17.5	12.5	10	420	61	52	41	30.5	21.5	17
90	35.5	30	24	18	12.5	10	440	62	52.5	41.5	31	21.5	17.5
95	36	30.5	24	18	12.5	10	460	63	53.5	42	31.5	22	17.5
100	37	31.5	25	18.5	13	10.5	480	64.5	55	43	32.5	22.5	18
<b>11</b> 0	38	32.5	25.5	19	13.5	10.5	500	65.5	55.5	44	33	23	18.5
<b>1</b> 20	39	33	26	19.5	13.5	11	520	66.5	56.5	44.5	33.5	23.5	18.5
130	40.5	34.5	27	20.5	14	11.5	540	68	58	45.5	34	24	19
140	41.5	35.5	28	21	14.5	11.5	560	69	58.5	46	34.5	24	19.5
150	42.5	36	28.5	21.5	15	12	580	70	59.5	47	35	24.5	19.5
<b>16</b> 0	43.5	37	29	22	15	12	600	71.5	61	48	36	25	20
170	45	38.5	30	22.5	16	12.5	620	72.5	61.5	48.5	36.5	25.5	20.5
180	46	39	31	23	16	13	640	73.5	62.5	49	37	25.5	20.5
190	47	40	31.5	23.5	16.5	13	660	75	64	50	37.5	26	21

¹ Governed by the Official Classification.

² In the disposition of fractions, those of less than one-half cent were dropped and one-half cent and over rounded out to a full cent in arriving at the base rates in the scale.

It will be observed from Table 13 that the scale is based on 5-mile rates of progression from 5 to 100 miles, inclusive; on 10-mile rates of progression from 100 to 300 miles, inclusive; and on 20-mile rates of progression beyond.

# CLASS RELATIONSHIP

Relationship existing between the various classes is predicated on the first-class rate, the first-class division being taken as the basic division and the other classes being constructed with relation thereto on the following percentages:

Class	2	3	4	5	6
Percentage	85	67	50	35	28

Rules 25, 26, and 28 are constructed on the basis authorized by the current Official Classification.

# Application of Scale

The Class-A schedule set forth in Table 13 was designed primarily to apply between points located in the more densely situated district served by the Boston and Maine Railroad, as it was recognized by its designers that it would not yield an equitable return to the carriers if blanketed over the entire territory.

So far as the Boston and Maine Railroad is concerned, we have indicated in Diagram 8 the territory or divisions on which this scale of rates is applied by means of horizontal lines drawn across the respective divisions of those portions on which a Class-A scale of rates is applied.

# CLASS-B RATES

For application in the more sparsely settled sections of the territory served by this railroad, it was decided that an increase of 10 per cent in the rates obtaining under
the Class-A adjustment would prove equitable both for the carrier and for the shipping public, and the rates were so made. This territory is indicated in Diagram 8 by the heavy black lines.

The Rates applicable before the present scale on hauls between A lines and B lines were on a constructive mileage basis, the actual distance traversed over a Class-A line being added to 125 per cent of the distance traversed over a Class-B line. Under the new scale, Class-B Rates will apply to all traffic moving to or from Class-B lines.

Between points in Class-B and Class-A the rate will be 10 per cent higher than the rates for hauls of the same length on Class-A lines.

Interline or joint rates are established on a slightly higher basis, but the underlying principles affecting the mileage and money rate of progression and the class relationship are the same.

In connection with the adjustment of rates in this territory, following the proposed horizontal increase of 5 per cent recently permitted by the Interstate Commerce Commission, Commissioner Harlan called attention to the fact that in this case the New England carriers sought approval of an increase only in the rates on traffic moving between New England Territory and other parts of Official Classification Territory. They did not propose a general 5 per cent increase in their intraterritorial freight rates. Those carriers undertook, instead, a general rate revision, which has since been largely effected through friendly conferences with state commissions and with shippers, and is now, by common consent of the public and state officials, being brought to a conclusion on a basis that will afford those lines a much larger additional net income than they could have secured through a 5 per cent increase in their freight rates. In other words, the New England lines have voluntarily pursued the only rational and reasonable course to augment their revenues.



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this being the course urged upon the Central Freight Association lines and the course that those lines at the hearing admitted to be necessary in order to meet their real requirements.³

⁸32 I. C. C. Rep. 33.

## TEST QUESTIONS

These questions are for the student to use in testing his knowledge of the assignment. The answers are not to be sent to the University.

1. Indicate several of the so-called overlaps of Official Classification Territory and the reasons therefor.

2. Define the organization and function of freight associations.

3. How does the railroad mileage and density of traffic in Official Classification Territory contrast with Western and Southern Classification territories?

4. What is the principal source of traffic in Official Classification Territory?

5. By whom are the intrastate rates in Illinois prescribed?

6. In the application of the Illinois scale of rates, how are the carriers of that state grouped?

7. Give an illustration of the construction of joint rates in Illinois.

8. To what extent are rates governed by the Official Classification applied on intrastate business, moving between points within the state of Michigan?

9. What is the basis employed in constructing rates between local points on the same railroad in the state of Michigan?

10. With what authority is the Public Service Commission of Ohio vested with regard to freight rates?

11. What scale of rates is applied to Indiana intrastate traffic?

12. To what extent is the Central Freight Association scale of rates applied?

13. Suppose A and B are in adjoining states and 426 miles apart, what scale of rates ordinarily would be applied?

14. How are short-line junction-point distances determined?

15. Give an illustration of the application of a basing-point rate to intermediate points.

16. Is it possible for the circuitous line in all cases to meet the short-line rate?

17. What would be the class rates from Glendale, Ohio, to Stockton, Ohio?

18. Give an illustration of when it is desirable to afford competing plants an equality in freight rates.

19. How, as a rule, are rates to branch-line points constructed ?

20. Illustrate the disrupting effect that state-prescribed rates have on the Central Freight Association scale of rates.

21. Discuss the development of the class divisions of the Central Freight Association scale of rates.

22. How is the Rule 28 class rating determined?

23. Enumerate some of the commodities which are accorded ratings based on percentages of the existing class rates.

24. What is a "basing book," or "basing sheet"?

25. What is meant by rates being "out of line"?

26. Enumerate some of the commodities for which special scale rates are prescribed by the Central Freight Association.

27. What elements intervene and cause a disregard of the distance principle in the application of the Central Freight Association scale?

28. Illustrate the equalization of competition in so far as traffic destined to points in Southeastern Territory is concerned.

29. How does the short-line distance, Chicago to Cincinnati, compare with the distance via other workable routes?

30. Into what groups are the so-called Ohio River Crossings divided?

31. How are the rates from Milwaukee adjusted with respect to the rates from Chicago?

32. What are the lake-and-rail rates by car-ferry from Milwaukee across Lake Michigan to Cincinnati?

33. To what causes may be ascribed the difference in the rates from Chicago to Ohio River Crossings in Illinois as contrasted with Ohio River Crossings in Indiana and Ohio?

34. What basis of rates is applied from Evanston, Ill., to Lockland, Ohio?

35. What are the existing differences in the rates from Chicago to Cincinnati on traffic as contrasted with Davenport, Iowa.

### TEST QUESTIONS

36. Outline in brief Trunk Line Territory.

37. To what extent are the rates in Trunk Line Territory susceptible to active water competition?

38. How are the rates from Utica to Pittsburgh rate points constructed?

39. To what cause may be ascribed the depression in the Buffalo-New York rates?

40. Illustrate the construction of rates from Syracuse, N. Y., to the Pittsburgh-Erie group.

41. What are the traffic characteristics of the New England Freight Association Territory ?

42. Define the mileage rate of progression and money rate of progression.

43. Under the New England scale what relationship does sixth-class rate bear to first-class rate?

44. Which of the adjustments treated in this treatise appears to you as the most scientific and equitable?

## CHAPTER VIII

### THE NEW YORK-CHICAGO PERCENTAGE RATE SYSTEM

### Origin

Having treated the intrastate and intraterritorial rate adjustments obtaining within Official Classification Territory, we shall now 'take up the interterritorial or so-called percentage system, which is viewed by many as the most scientific and most satisfactory adjustment of freight rates obtaining in this country. In the words of the Commission, this percentage adjustment between Central Freight Association Territory and the east has long been in effect and has given general satisfaction. The Commission has uniformly sustained the carriers' contention that this system of rate-making ought not to be disturbed nor broken in upon even in special cases without strong reason for so doing.¹

As will be fully explained in the subsequent chapters, the key to this entire adjustment is the New York-Chicago rate and the distance relationship existing between other points and Chicago as contrasted with the haul from Chicago, this procedure determining the development of the various percentage groups.

The percentage plan of making rates in this territory is said to have been proposed in 1876 by John T. McGraham, a rate clerk in the offices of the Pennsylvania Railroad. Although the credit for the introduction of the New York-Chicago rate system has been ascribed to

²23 1. C. C. Rep. 684-86.

Mr. McGraham, and although this system has been called the McGraham System, it is probable that the percentages were first applied in certain instances only, and that later the application was made general.

The records of the Trunk Line Association indicate that the McGraham table of percentages for determining westbound rates was first applied by the Trunk Lines on December 15, 1871. At this time the percentage prescribed for constructing Peoria rates was 112 per cent of the New York-Chicago rate. This percentage was applied to articles which were assigned a special rate, such as sugar, coffee, and molasses.

It is well known that since 1877 a percentage scale, either the McGraham table or a revision thereof, has been applied to westbound class rates generally and also to any commodity rates which may have been established.

However, Mr. McGraham should be given credit for making the general application of the percentage scheme, which has proved the most satisfactory and stable interstate rate system in the United States and under which, perhaps more than half the freight of the United States and Canada moves either in part or throughout its entire route.

The causes leading to the adoption of a systematic rate system by the Trunk Lines about 1876 are worthy of the consideration of all serious students of rate-making. Between 1874 and 1876 there were only four through lines between Chicago and the Atlantic Seaboard. During this period most disastrous rate wars occurred between these lines. The largest item of traffic was grain, eastbound. As late as 1882, 73 per cent of the eastbound Trunk Line tonnage consisted of grain and grain products. The larger part of this grain traffic was gathered up along the lines east of the Mississippi River. The large elevator centers had not arisen, and the states of

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Illinois, Indiana, and Ohio were at this time served by a number of small-cross lines which gathered up the grain and delivered it to one of the Trunk Lines or to a lake line for eastern shipment. Rail rates were still high in comparison with the present rates. They were, on an average, roughly twice the average rate at the present time. Moreover, the conditions of railway operation not having at that time attained the present state of efficiency, water competition was a matter for more concern than at present. Professor William Z. Ripley has well expressed some of the conditions of competition that indicate the gravity of the rate problem at that time in the following paragraphs:

Among these confusing elements in the problem of trunk line rate adjustment five distinct phases were prominent. In the first place the four trunk lines were a unit in opposition to the diversion of traffic to the Great Lakes and the Erie Canal. However much they might bicker with one another afterwards, apportionment of the rail business being a distinct feature of the problem. their interests at the outset were identical respecting the necessity of holding the business on land. Water competition by way of the lakes or the Ohio River was a danger common to them all. The intensity of this pressure may be understood from the statement that the trunk lines were not even consulted in making the Chicago-New York rate on which the western lines prorated. They had no voice in it, merely accepting the figure offered them by their connections into Chicago. The second feature of the problem, namely the division of the all-rail traffic among the competing carriers is immaterial to the main question before us. Thirdly, it was essential to the trunk lines to restrict and control the activities of the subsidiary cross lines and feeders. most of which, as has been said, were independent. Many of these, aside from having a direct interest in their longest haul to a terminus on the lakes or the Ohio River, had been built by local capital, and were administered in the interest of the lake cities or Cincinnati and Louisville. There was no unity whatever in their policies, and the most ridiculous wastes of transportation resulted. Grain was literally meandering toward the east instead of moving by a direct route. Joint through rates would be made by the most extraordinary chain of connecting links leading to the seaboard by various circuitons ways.

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A fourth evil, akin to this, consisted of the difficulty of maintaining through rates, not as among the trunk lines who might be made parties to a pool, but by reason of cutthroat competition between their western connections. The agents of these western lines would indiscriminately cut rates to or from points on their lines, and then expect their trunk line connections to accept a proportionate shrinkage of the joint through rate for their part of the haul. The weaker companies would, of course, be susceptible to such temptations in order to secure the business. No stable apportionment of this western traffic among the eastern lines would be possible until they could agree upon a fair rate for the trunk line haul, and rigidly adhere to it. And, finally, water competition, causing constant fluctuations in the lake and Ohio River rates, while directly potent only at water-way points, was continually putting the through rates from these points out of line with the local rates from noncompetitive inland centers. Or, perhaps, the Ohio river and lake rates would be out of joint with one another. The Chicago basis, if applied to Paducah, would make a rate on tobacco that would send it via New Orleans. Products would go down the Mississippi after the lakes had been closed by ice. A considerable amount of corn was certainly moved to New York by that route. Some device for coordination of the through and local rates-or, as one might put it, for the distribution of the localized shock of water-rate changes-was imperatively necessary.²

## Application of System

The system as first adopted in 1876 made the New York-Chicago rates the basis for other rates between the Atlantic Seaboard and the Central West. Points in Central Freight Association Territory took the percentage of the New York-Chicago rates that distance from New York determined. A point 60 per cent of the New York-Chicago distance from New York, for example, took 60 per cent of the New York-Chicago rates.

In 1879, however, the system was modified, in so far as points east of the Indiana-Illinois state line were concerned, so as to allow for terminal charges before computing the percentage of the New York-Chicago rates.

² Railway Rates and Regulations.

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The general method of the modified system, which is the system still in effect, may be illustrated by a statement of its application to any point. Springfield, Ohio, for example, for eastbound rates is in the 82 per cent group.³ Xenia, Ohio, is the base point for that group. Its distance to New York at the time this system was established was 700 miles. A rate of 25 cents was assumed as an average rate for all classes and commodities between New York and Chicago. Six cents was then deducted for the terminal charges at both ends of the haul. The remaining 19 cents represented the assumed charge for the haul exclusive of any service at the terminals. This rate of 19 cents being divided by the New York-Chicago distance of 920 miles gave \$.000206 as the charge per mile between New York and Chicago. This rate per mile was used as the factor for establishing an assumed rate from any particular junction or competitive point on the basis of its mileage to New York. The charge of \$.000206 per mile, above referred to, multiplied by 700, the distance from Xenia, Ohio, to New York gives 14.42 cents; if to this we add the 6 cents representing the terminal expenses at both ends of the movement, we get 20.42 cents as an assumed rate from Xenia to New York. This 20.42 cents is 81.7 per cent of the assumed rate of 25 cents from Chicago to New York; under the application of the general rule obtaining for the disposition of fractions resulting from such computation, a fraction of one-half of a per cent or more is considered a full per cent. A percentage of 82 is thus arrived at as the basis for constructing rates from that group, and the rates from Springfield to New York are, therefore, 82 per cent of the rates from Chicago to New York.

Applying the same formula and using the past-day

See Map 4. Atlas of Railway Traffic Maps.

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short-line mileage of 920 miles, the following percentages are obtained to the points indicated below:

Town	DISTANCE	RATE	Percentage
Cleveland, Ohio	575 mi.	17.85	71%
Detroit, Mich.	662 ''	19.63	78``
Evansville, Ind	986 ''	26.31	105 ' '
Pittsburgh, Pa	<b>44</b> 0 ''	15	60 ' '
Quincy, Ill.	1,130 ''	29.28	117 ''

The selection of the base points of the groups lies arbitrarily with the carriers.

This was the system as revised in 1879. There was an understanding among the carriers not to cut the rates at competitive points below the established basis. There was no agreement that rates should not be made more than those established as minima. However, competition and the fourth section of the Act to Regulate Commerce have caused the percentages to be applied as both maximum and minimum rates.

## EASTBOUND V. WESTBOUND GROUPS

A glance at Maps 3 and 4 of the Atlas of Railway Traffic Maps will show some of the differences in percentage groups. For example, the 87 per cent group for eastbound rates shows territory around Charleston, W. Va., as a slender high-heeled shoe, whereas the westbound map shows territory around Charleston in 87 per cent territory in a very different shape. On the eastbound rates, Vincennes, Ind., takes 103 per cent rates and on westbound shipments, 108 per cent. Evansville, Ind., takes 105 per cent on eastbound shipments and 110 per cent on westbound shipments. The southern part of the 110 per cent group for eastbound rates is in the form of a sharp point, whereas for westbound rates it spreads to the east in enlarged form. On westbound rates the percentage is higher for a considerable distance north and east of Evansville. The rates vary, not only for eastbound and westbound movements, but the groups themselves for both the eastbound and the westbound rates are irregular, as may be seen by a glance at Maps 3 and 4.

### MODIFICATIONS

Several factors have tended to make the territories quite irregular, but competition between rival carriers and between commercial centers has been the chief cause.

1. The system as first applied affected common points only, that is, points at which more than one east-andwest route competed for the business. Competition between the carriers tended to extend the groups to the westward at important junction points. An inspection of Maps 3 and 4 will show that usually the large centers, such as Fort Wayne, Indianapolis, Louisville, Evansville, Peoria, etc., are located either on the extreme western borders of the percentage groups or very near them.

2. Another disturbing factor has been the north-andsouth lines. For example, suppose Line X originally lay across the 96, 97, and 100 per cent groups. If this line carried business to and from the east, points on the line must be in the same group; otherwise, there would be a violation of the fourth section of the Act to Regulate Commerce. Hence, the demand was made that points on its lines be accorded the 100 per cent basis, which has been modified further as is indicated on the maps in the Atlas of Railway Traffic Maps. Other lines have made the same complaint, and similar changes have been made. This factor of the cross-line influence has been very potent in affecting the grouping.

3. The third important factor, affecting the grouping so as to modify a symmetrical arrangement, is that of commercial competition of the cities and manufacturing

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and distributing centers. A number of changes from the original grouping have been made on this account. Hundreds of requests have been filed with the railways and freight committees for changes in the grouping of commercial centers, and minor changes are continually being made. For example, Grand Rapids, Mich., and Saginaw, Mich., were once in the 100 per cent territory. Grand Rapids is now accorded 92 per cent territory and Saginaw, 88 per cent. Shifts in both directions have sometimes occurred. New roads have been built and new and shorter routes established since the percentages of the original groups were assigned. Newly developed traffic and other conditions have also been considered and from time to time have led to alterations in the percentages of certain points. The effect of these influences on the form and boundaries of the percentage groups is not without significance. Changes are continually being made for commercial considerations. A factory of one center wishes to be on a parity with the factory of another, or the dealers of one center wish to be placed on a parity with those of another. New factories are being erected and new distributing industries built up from time to time. In the main, however, the percentage system has been adhered to rather closely.

No group rates in the United States have been subjected to less change or criticism than the New York-Chicago percentage system. In the Saginaw case⁴ an attack was made before the Interstate Commerce Commission on the assignment of a percentage to a certain group. The complainants did not criticize the reasonableness of the rates in and of themselves. The claim was that the rates to Saginaw, Mich., and group points⁵ were too high in comparison with rates to other groups, more especially to the 78 per cent group including

⁴ 17 I. C. C. Rep. 128-38. ⁵ See Maps 3 and 4, Atlas of Railway Traffic Maps.

Toledo, Detroit, and Port Huron. The Saginaw Valley group takes 92 per cent of the New York-Chicago rates, while Detroit, Toledo, and Port Huron are in the 78 per cent group. The complaint was that the jobbers located in the 78 per cent group could supply the retail dealers in territory that should be contributory to Saginaw at less cost than could the Saginaw shippers.

The percentage of the Saginaw and Flint group was arrived at originally on the basis of the mileage by the Pere Marquette Railroad from Flint to Toledo and thence by the Pennsylvania Lines to New York. This haul, in 1892, when the rates were adjusted to this group, was a distance of 828 miles, and on the formula of distance rates between New York and Chicago, Flint was given the 92 per cent basis. This percentage was extended to Saginaw, which is even further from New York than Flint. At that time, the Grand Trunk Route through Port Huron to Saginaw was 823 miles from New York, which gives Saginaw practically the same percentage.

Later, however, the Grand Trunk reduced its distance from Port Huron to Buffalo from 229 to 196 miles. The complainants made the plea that since the short-line distance between Saginaw and New York through the Port Huron gateway was only 731 miles, Saginaw should be placed in 84 per cent territory according to the New York-Chicago percentage basis. The Commission, however, made the point that since Saginaw was off the main route of heavy traffic between New York and Chicago, the reason for according Saginaw its short-line percentage was not so valid as for allowing Detroit and Toledo the advantage of their location on both the lake and the rail routes between the east and the west. There is little through traffic to and from the west through Saginaw.

The Commission stated that the upper part of the peninsula of Michigan, not being a heavy traffic district,

should not be placed on the same basis as such gateways as Detroit and Toledo; that if the rates were reduced to the Saginaw Valley, the rates would necessarily have to be adjusted to other points in the sparsely settled upper part of the peninsula; and that these rates would apply via the longer routes south of the lakes as well as via the shorter routes through Port Huron. The latter condition would cause violations of the fourth section of the Act to Regulate Commerce. For these reasons the Commission was of the opinion that the Saginaw rates were not discriminatory.

## FEDERAL APPROVAL

In the decision of the Saginaw case the Commission made the following comment on the New York-Chicago rate system:

While it is not always a simple matter when examining a map of the percentage group territory to understand and at once comprehend the causes that have produced zones or groups of such irregular outline, nevertheless, a careful study of particular groups, and some knowledge of the transportation conditions that surround and effect them, have given us the general impression that their boundaries have been established upon substantial and presumably sound grounds. The fact that no group rates in this country have been subjected to less criticism than the rates to and from the percentage-basis territory and the Atlantic coast is some evidence of the care with which the system has been developed.⁶

The formula employed in establishing the percentage groups in the case of traffic destined to points east of the Indiana-Illinois state line differs from that employed in the case of traffic destined to points beyond.

As opposed to the principles applying east of the Indiana-Illinois state line just given, the distance relationship was not preserved to the same degree west of that line. The present-day groupings were established in

⁶¹⁷ I. C. C. Rep. 132.

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their original form in 1877 and at that time the traffic of Illinois was neither heavy nor as highly competitive as it is today. Peoria, Ill., was then the principal town (in Illinois) west of Chicago, and the distance from New York to Peoria was 110 per cent of that to Chicago. Peoria was accordingly given the 110 per cent rate. Most of the territory between Peoria on the west and the Indiana-Illinois state line on the east was thrown into one broad group taking the 110 per cent rate. It is believed that at one time no other rate was applied within all this territory, but subsequently, upon the insistence of certain localities, two or three towns were given lower rates.

As disclosed by the *Atlas of Railway Traffic Maps*, there are numerous small groups west of the 110 per cent group, taking rates of 112, 113, and 115 per cent of the New York-Chicago rate. The greater part of the state, however, is assigned to the 110, 116, 117, and 120 per cent groups.

It will be observed in this adjustment that in determining the percentage relationship, the basing rates and terminal charge employed east of the Indiana-Illinois state line are disregarded and the relationship is determined solely by that of the New York-Chicago mileage as contrasted with the New York base-point mileage.

Peoria, Ill., is selected as the base point for the 110 per cent group. The present-day short-line distance to this point is 1,001 miles, which is approximately 110 per cent of the New York-Chicago distance of 912 miles.

Likewise, the distance from New York to East St. Louis, Ill. (1,045 miles), is approximately 116 per cent of that to Chicago. Originally, East St. Louis was given a 116 per cent rate but subsequently (1907), when the rates to St. Louis and East St. Louis were made the same, this was increased to 117 per cent and the bridge toll on which rates to St. Louis were previously made was abolished.

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Concurrent with the change in rates to St. Louis, the area of the 117 per cent territory was drawn considerably to the east and at one time included Springfield, Ill.

This adjustment, so far as Springfield is concerned, continued until December 1, 1913, when the Commission upon investigation prescribed as reasonable rates for the future those obtaining under the 113 per cent scale.

Several other complaints have been heard and readjustments prescribed, resulting in the reduction of class and commodity ates to Elgin, Ill., from the 110 to the 107 per cent basis, and of class rates to Rockford, Ill., from the 116 to the 112 per cent basis, and to Freeport, Ill., from 117 to 114 per cent of the New York-Chicago rate.

With the exception of the points mentioned and possibly some few others, the percentage-rate designations applied to points west of the Indiana-Illinois state line do not express the relations which the distances from New York to the points in question bear to the distance from New York to Chicago. They are used merely to indicate the relationship of rates. Oftentimes, it will be observed that the transition from one group to another is abrupt, as from 100 to 110 and 110 to 117. A study of the construction of rates under the percentage system will clearly show how satisfactory this method proves in actual practice.

		Diffe		
1	2	1		
		90		
12	10	77 72		
3	3	①77 ②80		
		63		
12	10	84 71		
1	1	1)71 2)76		
12	10 '	82 69		
		(1) 69 (2) 74		
		90		
		85		
12	, 10	77		
		72		
8	6	D77 285		

TABLE 14 CLASS RATES FROM AND TO CHICAGO VIA VARIOUS STANDARD AND DIFFERENTIAL ROUTES GOVERNED BY THE OFFICIAL CLASSIFICATION

EASTBOUND						RATES							WESTE	BOUNE	)													
		Differ	ENTIALS						THROUG	H RATE	8				_		Т	HROUGH	RATES						DIFFER	ENTIALS		
		Cla	sses					ν	Cla	18569				To		Classes					Classes							
1	2	3	4	5	6	1	2	3	4	5	6	R25	R26		1	2	3	4	5	6	R25	R26	1	2	3	+ 4	5	6
						90	79	60	42	36	30	67	48	New York All-Rail Stat:dard	. 90	79	60	42	36	30	67	48						
12	10	7	5	4	4	78	69	53	37	32	26	59	43	Standard	77	68	51	37	31	26	58	38	13	11	9	5	5	4
														Canada Atlantic Transit Co	72	64	48	34	29	23	54.5	43.5	18	15	12	8	7	5
3	3	3	3	2	° 2	87	76	57 No throu	39 velu ioin	34	28 easthou	64.5	45.5	Kanawha Dispatch. Norfolk & Western Despatch. Cumberland Gap Despatch. National Despatch Line Great Eastern Line. Canal-and-Lake	① 77 ③ 80	68 71	51 54	37 38	31 32	26 27	58 60.5	38 43	13 10	11 8	9 6	5 4	5 4	4 3
										c rates				Great Lakes Canal Line—Great Lakes Transit Corporation	63	56.5	42.5	31	26.5	22.5	44	34	26.8	22.3	17.5	10.8	9.5	7.3
12	10	7	5	4	4	88 76	77 67	58 51	40 35	34 30	28 24	65.5 57	46.5 41	PHILADELPHIA All-Rail Standard Rail-and-Lake Standard ( Ocean-and-Rail	84 71	73 62	58 49	40 35	34 29	28 24	$63 \\ 52.5$	46.5 39	13	11	9	5	5	4
ι	ł	1	1	1	ſ	87	76	57	39	83	27	65.5	45.5	Kanawha Dispatch Norfolk & Western Despatch Cumberland Gap Despatch	0.71 @76	62 67	49 54	35 47	29 32	24 26	52.5 57	39 43	13 8	11 6	9 4	$\frac{5}{3}$	52	4 2
12	10 '	7	5	4	4	87 75	76 66	57 50	39 34	33 29	27 23	64.5 56	45.5 40	BALTIMORE All-Rail Standard. Rail-and-Lake Standard. ( Ocean-and-Rail	82 69	71 60	57 48	38.5 33.5	32.5 27.5	$26.5 \\ 22.5$	60.5 51	45 38.5	13	TI.	9	5	5	4
		No Diffe	erentials)			87	76	57	39	33	27	64.5	45.5	Kanawha Dispatch. Norfolk & Western Despatch. Cumberland Gap Despatch.	① 69 ① 74	60 65	$\begin{array}{c} 48\\53\end{array}$	33.5 35.5	27.5 30.5	$22.5 \\ 24.5$	5 <b>1</b> 55	$\frac{38.5}{42.5}$	13 8	11 6	9 -1	5 3	$\frac{5}{2}$	$\frac{4}{2}$
						97	85	65	46	39	32	72.5	52	Boston All-Rail Standard Differential National Despatch–Great Eastern Line. Canadian Pacific Despatch. Ruthand-Michigan Central Line.	90	79 75	60 57	42 39	36 34	30 29	67 64	48 45.5	5	4	3	3	2	1
12	10	7	5	4	4	85	75	58	41	35	28	64	46	R. W. & O. Line. Rail-and-Lake Standard Differential Canada Atlantic Transit Co	77	68 64	51 48	37 34	31 29	26 25	58 54.5	41 38.6	13 18	11 15	9 12	5 8	5 7	4 5
8	6	4	3	*2	2	89	79	61	43	37	30	67	49	Norfolk & Western Despatch. Cumberland Gap Despatch. Merchants & Miners Transportation Co. (B. & O. R. R.).	(1) 77 (1) 85	68 75	51 57	37 39	31 34	26 29	58 64	41 45.5	13 5	11 4	9 3	5 3	5 2	4 1

OTo Chicago (only) during the season of lake navigation, OTo points other than Chicago taking Chicago group rates, also to Chicago during season of closed lake navigation.

## CHAPTER IX

### 1HE NEW YORK-CHICAGO PERCENTAGE RATE SYSTEM-Continued

### Routes

The method under which the percentage groups are determined having been set forth, it is well, at this time, to consider the existing rates applying between New York and Chicago, since they are the basing rates which are used to determine the rates between New England and Trunk Line territories on the one hand and Central Freight Association Territory on the other, as well as some points in Eastern Canada.

Table 14 shows the westbound class rates from New York and other seaboard points to Chicago, via the various classes of routes, and the differentials that specifical routes are conceded under the all-rail rates.

The necessity of these differentials is to equalize the competition of the direct and indirect lines. It is only natural that the more circuitous lines and those having a relatively slower service should adjust their rates with relation to the rates established by the direct all-rail lines, making the direct all-rail rates the standard by which the other rates are measured. From this comes the term "standard all-rail rates."

Diagram 9 indicates several of the more important routes serving Chicago and New York. The all-rail routes are indicated by line 1; the rail-and-lake routes by line 2; Long Island Sound and the Canadian routes by



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line 3; the ocean-and-rail routes through Virginia ports by line 4; the ocean-and-rail routes, through Baltimore by line 5; Hudson River and Erie Canal by line 6.

During the season of navigation on the Great Lakes there is not much choice between the service rendered via the rail-and-lake routes and that via the ocean-and-rail routes through the Virginia ports and Baltimore. Since the character of the service is the same, necessitating transshipping from vessel to car, or vice versa, at one or more of the ports, we find that the charges or rates of transportation are adjusted on approximately the same basis.¹

The route through Long Island Sound to New London, Conn., and thence via the Central Vermont Railway and its Canadian connections not only involves the transshipment feature but also a much greater distance. To offset this disadvantage, the rates via this line are adjusted on a somewhat lower basis than that which obtains under the ocean-and-rail and rail-and-lake routes.

Transportation by way of the Hudson River, the Erie Canal, and the Great Lakes naturally attracts only the lower classes of traffic, in which service and the element of time are minor considerations. The length of time needed for the journey, the various transshipments required, and the element of risk and marine insurance all warrant the establishment of rates via this route on a lower scale than is accorded any of the other routes serving the community.

However, as the rail-and-water adjustment constitutes a later chapter of this treatise, we shall not attempt at this time to go into the matter at any length. Suffice it to say that shippers or receivers of freight who can avail

¹ Note, that the ocean-and-rail rates are higher during the season when lake navigation is closed.

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themselves of these differential routes can effect a material saving in the transportation charges as compared with the all-rail rates and routes.

To exemplify further the disparity in the eastbound and westbound adjustments, Tables 15 and 16 show a representative line of commodity rates in each direction.

## TABLE 15^①

Commodity	<b>@RATE</b>
Bagging, burlap	30
Brick, common	28
Cement	22
Coffee	36
Ferro manganese	6.003
Fuller's earth	26.5
Kainit	26.5
Lemons	48.5
Oranges	48.5
Ovsters	48
Oyster shells, crushed	23
Paving blocks, stone	26.5
Petroleum oil	33
Potash invriate of	26.5
Salt	24
Soda bicarbonate of	26.5
Sugar	31.5
Sulphur crude	23
Tin nig	20
Wood nuln	26.5
Zine ashes	6.00@
	0.000

COMMODITY RATES VIA STANDARD ALL-RAIL LINES FROM NEW YORK TO CHICAGO

(Rates are governed by the Official Classification.

③Unless otherwise specified, rates are in cents per 100 pounds in carloads.
③Per ton of 2,240 pounds.
④Per ton of 2,000 pounds.

It will be noted from Table 15 that the commodities are such as are peculiar to the east, as manufactured articles, imported commodities, or natural products.

# TABLE 16⁽¹⁾

COMMODITY RATES VIA STANDARD ALL-RAIL LINES FROM CHICAGO TO NEW YORK

COMMODITY	<b>ORATE</b>
. Asphaltum	24
Binders, board	24
Brick	20.0
Cattle	38
Cement	22
Copper	24
Grain	24.5
Grain products	25
Hogs	38
Horses and mules	74
Iron and steel articles, for export	32.5
Lead	22
Magazines (returned)	42
Meat, fresh	55
Ore, copper	24
Salt	27
Sodas	26.5
Spelter	19.5
Syrup, corn	29

①Rates are governed by the Official Classification.
 ②Rates are in cents per 100 pounds in carloads.

Table 16 shows rates under the eastbound commodity adjustment which are confined to articles produced in large quantities and which constitute no small proportion of the traffic in so far as the middle west is concerned. It will be observed that on articles which are produced in the east and west, such as cement and soda, the rates are the same in both directions. This procedure puts manufacturers and dealers in this line of articles on a parity as to rates.

The rates on these few representative articles have been reproduced in order to give a more definite idea of the rates between New York and Chicago than could be obtained from the table of class rates. The rates between New York and Chicago, both class and commodity, are

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the base factors on which rates are constructed between all points east of the Western Termini on the one hand and all Central Freight Association points on the other. There are some modifications in the system in its application to class rates, and there are many more in its application to commodity rates. However, the system is applied to commodity rates to a considerable degree as well as to class rates generally throughout the territory, overlapping in some cases into Canadian Freight Association Territory on the north and into Southern Territory on the south.

## CHAPTER X

### ALL-RAIL RATES WESTBOUND

## FROM NEW YORK AND NEW YORK RATE POINTS TO WESTERN PERCENTAGE GROUPS

## (a) Class Rates

In the chapter devoted to the development of the percentage system, mention was made of the fact that in some cases a point does not fall in the same group on westbound traffic that it does on eastbound traffic. Special emphasis is laid upon this point at this time. A comparison of Maps 3 and 4 of the *Atlas of Railway Traffic Maps* will disclose many instances of this kind. Evansville, Ind., is in the 110 per cent group under the westbound adjustment and in the 105 per cent group under the eastbound adjustment. Findlay, Ohio, is in S0 per cent territory on westbound and 79 per cent territory in eastbound. Consequently, the respective maps should be referred to in each instance to determine accurately the group location of the point of destination or the point of origin involved.

As Chicago, Ill., however, is in the 100 per cent group on both Maps 3 and 4, it is natural to find that the rates via the standard all-rail routes in both directions are the same on classified freight, the current rates being as follows:

R25 3 R26 **R2S** 56 2 Classes ..... 1 42 36 30 48 48.5 60 Rates ..... 90 79 67

To illustrate how these rates are used as the basis or basing rates on which the class rates are constructed to points other than Chicago (and those in the 100 per cent group), the following examples are given:

Indianapolis, Ind., is shown on Map 3 of the Atlas of Railway Traffic Maps, in a group designated by the numeral 93, which indicates that points in this group take 93 per cent of the New York-Chicago rates, and applying this percentage to the above-mentioned scale, the following rates are obtained:

Under the application of the rule for the disposition of fractions, those of less than  $\frac{1}{4}$  or .25 of a cent omit. Fractions of  $\frac{1}{4}$  or .25 or greater, but less than  $\frac{3}{4}$  or .75, state as  $\frac{1}{2}$  or .5 of a cent. Fractions of  $\frac{3}{4}$  or .75 of a cent or greater, increase to the next whole figure.

Classes	1	2	3	4	5	6
Rates	83.5	73.5	56	39	33.5	28

As the irregular classes, namely, Rule 25, Rule 26, and Rule 28, are predicated on the regular classes, they cannot be constructed by taking the required percentage of the Chicago rates for the irregular classes, but must be constructed with reference to the regular classes established to the group points. For example, the second-class rate to Indianapolis is shown as 73.5 cents, and as Rule 25 is made 15 per cent less than the secondclass rate, by deducting 15 per cent of this amount, which is 11 cents, we obtain 62.5 cents, or 62.5 cents, as the Rule-25 class rate, New York to Indianapolis. Similarly, were it desired to construct the rate on Rule 26, we would deduct 20 per cent of the third-class rate (or 11 cents) from the third-class rate of 56 cents, obtaining 44.8 cents as the result, which is the Rule-26 class rate. New York to Indianapolis.

The class rate for Rule 28 is based upon the existing difference between the third-class and fourth-class rates

established to the points in question. In this instance, as this difference amounts to 17 cents according to the figures set forth in Table 4, 5.95 cents, or 6 cents, is added to the fourth-class rate, making the rate 45 cents.

Following the procedure outlined above, it is possible to construct the rates from New York to any point in the percentage groups. The computations may be readily proved by comparing them with the new York percentage-group class rates shown in Table 17 which are reproduced from tariff publications of the carriers.

### TABLE 170

CLASS RATES FROM NEW YORK, N. Y., VIA STANDARD ALL-RAIL ROUTES TO PERCENTAGE GROUPS SHOWN ON MAP 3

То				(	lasse	S			
PERCENTAGE		RA	TES IN	V CEN	TS PE	R 100	Pour	NDS	
GROUPS	1	2	3	4	5	6	R25	R26	R28
661	60	523	40	28	24	20	443	32	32
67	601	53	40	28	<b>24</b>	20	$45^{-}$	32	32
68	61	531	41	$28\frac{1}{2}$	243	$20\frac{1}{2}$	453	33	33
69	62	54 <u>j</u>	411	29	$25^{-}$	$20\frac{1}{3}$	463	33	333
70	63	553	42	$29\frac{1}{2}$	25	21	$47^{-}$	331	34
71	64	56	$42\frac{1}{2}$	30	$25\frac{1}{2}$	213	473	$34^{-}$	343
72	65	57	$43^{-}$	30	$26^{-}$	$21\overline{3}$	481	$34\frac{1}{2}$	$34\frac{1}{3}$
73	651	573	44	$30\frac{1}{2}$	261	$22^{-}$	49	$35^{-}$	$35^{-}$
74	-661	$58\frac{1}{2}$	$44\frac{1}{2}$	$31^{-}$	261	22	$49\frac{1}{2}$	$35\frac{1}{2}$	35
75	$67\frac{1}{2}$	$59\frac{1}{2}$	$45^{-}$	$31\frac{1}{2}$	$27^{-}$	$22\frac{1}{2}$	501	36	36
76	$68\frac{1}{2}$	60	451	$32^{-}$	$27\frac{1}{2}$	$23^{-}$	$51^{\circ}$	$36\frac{1}{2}$	$36\frac{1}{2}$
77	$69\frac{1}{2}$	61	$46^{-}$	$32\frac{1}{2}$	$27\frac{1}{2}$	23	52	$37^{-}$	37
78	70	61 5	47	33	28	$23\frac{1}{2}$	$52\frac{1}{2}$	$37\frac{1}{2}$	38
79	71	$62\frac{1}{2}$	47를	33	$28\frac{1}{2}$	$23\frac{1}{2}$	$53^{-}$	38	38
80	72	63	48	$33\frac{1}{2}$	$29^{-}$	$24^{-}$	$53\frac{1}{2}$	$38\frac{1}{2}$	$38\frac{1}{2}$
81	73	64	$48\frac{1}{2}$	$34^{-}$	29	24를	541	39	39
82	74	65	49	$34\frac{1}{2}$	$29\frac{1}{2}$	$24\frac{1}{2}$	$55\frac{1}{2}$	- 39	$39\frac{1}{2}$
83	743	$65\frac{1}{2}$	50	35	30	25	$55\frac{1}{2}$	40	$40\frac{1}{2}$
84	$75\frac{1}{2}$	$66\frac{1}{2}$	$50\frac{1}{2}$	353	30	25	561	401	41
85	$76\frac{1}{2}$	67	51	$35\frac{1}{2}$	$30\frac{1}{2}$	$25\frac{1}{2}$	571	41	41
86	$77\frac{1}{2}$	68	$51\frac{1}{2}$	36	31	26	58	41	415
87	$78\frac{1}{2}$	$68\frac{1}{2}$	52	361	$31\frac{1}{2}$	26	58	$41\frac{1}{2}$	42
88	79	$69\frac{1}{2}$	53	37	$31\frac{1}{2}$	$26\frac{1}{2}$	59	$42\frac{1}{2}$	$42\frac{1}{2}$
89	80	$70^{1}_{2}$	$53\frac{1}{2}$	$37\frac{1}{2}$	32	$26\frac{1}{2}$	60	43	43
90	81	71	54	38	$32\frac{1}{2}$	27	$60\frac{1}{2}$	43	$43\frac{1}{2}$
91	82	72	54월	38	33	$27\frac{1}{2}$	61	$43\frac{1}{2}$	44
92	83	$72\frac{1}{2}$	55	$38\frac{1}{2}$	33	$27\frac{1}{2}$	$61\frac{1}{2}$	44	443
93	$83\frac{1}{2}$	$73\frac{1}{2}$	56	39	$33\frac{1}{2}$	28	$62\frac{1}{2}$	45	45
94	$84\frac{1}{2}$	743	563	391	34	28	$63\frac{1}{2}$	45	$45\frac{1}{2}$
95	$85\frac{1}{2}$	75	57	40	34	281	64	453	46
96	$86\frac{1}{2}$	76	$57\frac{1}{2}$	$40\frac{1}{2}$	$34\frac{1}{2}$	29	$64\frac{1}{2}$	46	$46\frac{1}{2}$

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### TABLE 17—Continued

CLASS RATES FROM NEW YORK, N. Y., VIA STANDARD ALL-RAIL ROUTES TO PERCENTAGE GROUPS SHOWN ON MAP 3

То	1			0	lasse	S			
PERCENTAGE		RA	TES I	V CEN	TS PE	R 100	Pour	NDS	
GROUPS	1	2	3	4	5	6	R25	R26	<b>R28</b>
97	871	761	58	$40\frac{1}{2}$	35	29	65	461	461
98	88	$77\frac{1}{2}$	59	41	$35\frac{1}{2}$	$29\frac{1}{2}$	66	47	471
99	89	78	$59\frac{1}{2}$	411	$35\frac{1}{2}$	$29\frac{1}{2}$	$66\frac{1}{2}$	$47\frac{1}{2}$	48
100	- 90 -	79	60	$42^{-}$	36	30	67	48	481
101	91	80	$60\frac{1}{2}$	$42\frac{1}{2}$	$36\frac{1}{2}$	$30^{1}_{2}$	68	$48\frac{1}{2}$	49
102	92	$80\frac{1}{2}$	61	43	$36\frac{1}{2}$	$30\frac{1}{2}$	$68\frac{1}{2}$	$49^{-}$	$49\frac{1}{2}$
103	$92\frac{1}{2}$	813	62	43 ]	37	31	$69\frac{1}{2}$	$49\frac{1}{2}$	50
104	933	82	$62\frac{1}{2}$	$43\frac{1}{2}$	$37\frac{1}{2}$	31	$69\frac{1}{2}$	$50^{-}$	50
105	943	83	63	44	38	$31\frac{1}{2}$	$70\frac{1}{2}$	$50\frac{1}{2}$	$50\frac{1}{2}$
106	951	834	633	443	38	$32^{-}$	71	51	51
107	963	841	64	$45^{-}$	$38\frac{1}{2}$	32	72	51	$51\frac{1}{2}$
108	97	853	65	453	39	$32\frac{1}{2}$	$72\frac{1}{2}$	52	$52\frac{1}{2}$
109	98	86	$65\frac{1}{2}$	$46^{-}$	39	$32\frac{1}{2}$	73	$52\frac{1}{2}$	53
110	- 99	87	66	46	$39\frac{1}{2}$	33	74	$53^{-}$	53
111	1(31)	873	661	463	40	$33\frac{1}{2}$	741	53	$53\frac{1}{2}$
112	101	883	$67^{-}$	$47^{-}$	403	$33\frac{1}{2}$	75	$53\frac{1}{2}$	54
113	1013	891	68	473	$40\bar{3}$	34	76	543	$54\frac{1}{2}$
114	1023	90	$68\frac{1}{2}$	48	41	34	761	55	$55^{-}$
115	1033	91	69	481	41 등	341	771	55	551
116	1043	913	694	483	$42^{-}$	$35^{-}$	78	551	56
117	$105\frac{1}{2}$	$92\frac{1}{2}$	70	$49^{-}$	42	35	783	$56^{-}$	561
118	106	93	71	491	423	$35\frac{1}{2}$	79	57	57
119	107	94	713	50	$43^{}$	$35\frac{1}{2}$	80	57	571
120	108	95	$72^{-}$	$50\frac{1}{2}$	43	36	$80\frac{1}{2}$	$57\frac{1}{2}$	58

()Reproduced from N. Y. C. R. R. I. C. C. N. Y. C. No. 4809

## (b) Commodity Rates

The commodity-rate adjustment very closely follows that employed in establishing the class rates. There is, however, this distinction to be observed, that while some commodities have what is known as a general authorizaticn applying from all of the eastern base points to all of the western percentage groups, other commodities are specifically authorized, and the rates thereon, known as specific commodity rates, apply only from and to specified points of origin and destination. Although both may be made under the percentage principle, the former class takes in such articles as are not peculiar to any one given point but are produced in considerable quantities throughout the territory, such as sandstone, lime, manufactured iron, and cement, of which it may be reasonably supposed there is a movement from and to all points, while the latter class takes in such articles as may be produced or manufactured in one locality, or which move from one or more of the seaboard cities, such as charcoal, electrical machinery, or import traffic. For example, considerable quantities of coffee might be imported through the north Atlantic ports as well as minerals, chemicals, and other commodities not common to this country. As they would unquestionably move from port of entry to final destination, there is no necessity for publishing a rate on carload shipments of coffee from such interior points as Ogdensburg, New Berlin, and Rochester, N. Y., Scranton, Pa., or others. Charcoal is manufactured and shipped from Rochester, N. Y. Consequently, we find in the publications of the carriers that these rates are authorized to apply only from specified points of origin and in some cases to specified destinations.

Where a commodity has a general authorization, however, it is scaled in accordance with the percentage principle announced in connection with the class rates. The same process is generally employed on low-grade commodities or on highly competitive articles with the reservation that in some cases fractions are not perpetuated and frequently minimum rates are established which defeat the application of the percentage basis in so far as some few points may be concerned.

The rates from New York and New York rate points to western percentage groups on ten selected commodities are reproduced in Table 18.

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## TABLE 180

### Commodity Rates for 10 Commodities in Carloads from New York Rate Points to Percentage Groups 60-120 Rates in Cents fer 100 Pounds, Unless Otherwise Specified.

Percentage Groups	ig Lead	rimstone	lay	roods of alue	mmunition Fixed)	ordage	ysters i Shells	ags, New otton	lg Iron©	xles, Car, Id©
		<u></u>	<u> </u>		<u>40</u>	0	<u> </u>	<u><u><u>a</u>o</u></u>	<u> </u>	40
61)	15.5	15	17	21.5	25	21.5	34	36	\$3.10	\$3.20
70	15.5	10	19.5	21.5	25	24	54 91	38.5 90 E	3.90	4.00
71	15.5	18	19.5	21.5	20 25	20 25 5	24	30.0 28 5	4.00	4.20
72	16	19.5	19.5	21.5	25	26	34.5	39	4 10	4 30
73	$\overline{16}$	19.5	19.5	22	$\frac{1}{25}$	26.5	35	40	4.20	4.40
74	16.5	19.5	19.5	22	25	26.5	35.5	40.5	4.30	4.40
75	16.5	19.5	19.5	22.5	25	27	36	41	4.30	4.50
76	16.5	19.5	19.5	23	25	27.5	36.5	41.5	4.40	4.60
77	17	19.5	19.5	23	25	27.5	37	42	4.40	4.60
70	175	19.5	19.5	23.5	25	28 99 E	37.5	42.5	4.50	4.70
80	17.5	19.5	19.5	23.5	40 95	28.0	00 38 5	43	4.50	4.70
81	18	19.5	19.5	24.5	25	29	39	44	4.70	4.90
82	18	19.5	19.5	24.5	25.5	29.5	39	44.5	4.70	4.90
83	18.5	19.5	20	25	25.5	30	40	45	4.80	5.00
84	18.5	19.5	20	25	26	30	40.5	46	4.80	5.00
85	18.5	19.5	20.5	25.5	26.5	30.5	41	46.5	4.90	5.10
86	19	20	20.5	26	26.5	31	41	47	4.90	5.20
86	19	20	21 96	20	275	31.5	41.5	47.5	5.00	5.20
	19.5	20.5	$\frac{20}{21}$	26.5	27.5	30	42.0	48 5	5.10	- 0.3U - 5.30
90	20	20.5	26	27	28	32.5	43	49	5.20	5.40
91	20	$\overline{21}$	$\frac{1}{22}$	27.5	$\tilde{28}$	33	43.5	49.5	5.20	5.50
92	20	21	. 22	27.5	28.5	33	44	50	5.30	5.50
93	20.5	21.5	22.5	28	29	33.5	45	50.5	5.30	5.60
94	20.5	21.5	22.5	28	29	34	45	51	5.40	5.60
95	21	22	23	28.5	29.5	34	45.5	52	5.50	5.70
90	21	22	23	29	20	34.D 25	40	52.0 52	5.60	5.80
98	21.5	22.5	$\frac{23.5}{23.5}$	29 5	30.5	35.5	40.5	53 5	5.60	-5.00 5.90
99	22	23	24	29.5	30.5	35.5	47.5	54	5.70	5.90
100	22	23	24	30	31	36	48	54.5	5.75	6.00
101	22	23	24	30.5	31.5	36.5	<b>48.5</b>	55	5.80	6.10
102	22.5	23.5	24.5	30.5	31.5	36.5	49	55.5	5.90	6.10
103	22.5	23.5	24.5	31	32	37	49.5	56	5.90	6.20
104	23	24	25	31	32	37.5	50 50 5	56.5	6.00	6.20
105	23	24	20 25 5	31.0	34.0	30 20	50.5	01 58	6.10	6.40
107	23.5	24.5	25.5	32	33	38.5	51	58.5	6.20	6.40
108	24	25	26	32.5	33.5	39	52	59	6.20	6.50
109	$\tilde{24}$	25	26	32.5	34	39	52.5	59.5	6.30	6.50
110	24	25.5	26.5	33	34	39.5	53	60	6.30	6.60
111	24.5	25.5	26.5	33.5	34.5	40	53	60.5	6.40	6.70
112	24.5	26	27	33.5	34.5	40.5	53.5	61	6.40	6.70

### TABLE 18[®]—Continued

Commodity Rates for 10 Commodities in Carloads from New York Rate Points to Percentage Groups 60-120 Rates in Cents per 100 Pounds, Unless Otherwise Specified

Percentage Groups	Pig Lead	Brimstone	Clay	Woods of Value	Ammunition (Fixed)	Cordage	Oysters in Shells	Bags, New Cotton	Pig Iron©	Axles, Car. Old @
113	25	26	27	34	35	40.5	54.5	61.5	6.50	6.80
114	25	26	27.5	<b>34</b>	35.5	41	55	62	6.60	6.80
115	25.5	26.5	27.5	34.5	35.5	41.5	55	62.5	6.60	6.90
116	25.5	26.5	28	35	36	42	55.5	63	6:70	-7.00
117	25.5	27	28	35	36.5	42	56	64	6.70	-7.00
118	26	27	28.5	35.5	36.5	42.5	57	64.5	6.80	7.10
119	26	27.5	28.5	35.5	37	43	57	65	6.80	7.10
120	26.5	27.5	29	36	37	43	57.5	65.5	6.90	7.20

①Check with N. Y. C. R. R. Tariff 6457 effective May 15, 1918.
② Per ton of 2240 lbs.

From the foregoing, it may be observed that in all cases the rates as indicated are not a corresponding percentage of the base rates to Chicago. The rate on pig lead from New York to Chicago is given as 19 cents. Sixty per cent of this amount would be 11.4 cents, but, as disclosed by the table, the rate established to the 60 per cent group on this commodity is 13.1 cents. This procedure is necessary because a strict application of the percentage principles for such low-grade commodities as cement, pig lead, brimstone, etc., to short-haul points would result in a rate which would hardly cover the expense of transportation. Consequently, it will be found that in connection with many commodities moving to the 60 per cent group, minimum rate requirements are provided. These requirements are designed to insure to the carrier adequate return for the service rendered, considering all destinations in the group. For example, while 11.4 cents might yield an adequate return as applied to points immediately west of Buffalo, to points

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in the western extremity of the 60 per cent group, such as Erie, Pa., Wheeling, W. Va., and Meadville, Pa., etc., the rate would not yield its proper proportion of transportation revenue.

So we find, in connection with this table, that a special basis has been authorized to apply in connection with the rates applying on pig lead, brimstone, and fixed ammunition.

In its decision in the so-called "Five-Per-Cent Case," the Interstate Commerce Commission held that where rates had been increased since July 29, 1914, such rates were not to be increased again so as to exceed those in effect on that date by an aggregate of more than 5 per cent. The rates on pig lead, brimstone, and fixed ammunition were increased, effective during December, 1914, so that with the exception of certain of the rates on brimstone, which situation is explained herein, no advances were made in the rates on these commodities. The rule for the disposition of fractions where no increases were made is as follows: fractions of one-half cent and over are computed as whole numbers and fractions of less than one-half cent are disregarded.

On brimstone a basing rate of 23 cents from New York to Chicago is used, subject to the following minimum rates from New York:

Points taki	ng over 71	per cent	cents
Points taki	ng 70 and	71 per cent16	cents
Points taki	ng 67 per	cent15	cents
Points taki	ng 60 per	cent	cents

On fixed ammunition, that is, cartridges, paper or metallic shells, a base rate of 31 cents from New York to Chicago is used, observing the rates established to the 80 per cent group as minimum rates to all points taking less than 80 per cent. The rate on pig lead is established on a basing rate of 22 cents from New York to Chicago, subject to the rate to 71 per cent group points as minimum to points east of the 71 per cent group. The 22-cent basis represents more than 5 per cent increase over the former basing rate of 19 cents so that it was not possible to increase the basing rate under the decision of the Commission. The former basing rate of 19 cents increased 5 per cent, yields a basing rate of 20 cents. Under this basing rate, 71 per cent group points would take a rate of 14.2 cents. This method of figuring was used by the carriers in fixing the rate to 71 per cent group points, which figure is used as a minimum to points east thereof.

The greater portion of the deviations from the authorized percentage principle of establishing rates will be found in the eastern percentage groups. In many cases, to the Western Termini Points proper, the percentage principle is disregarded entirely. Buffalo, N. Y., while shown in the 60 per cent group in the Atlas of Railway Traffic Maps is not always so regarded as it is so situated with respect to water competition to and from the seaboard by way of the Erie Canal and the Hudson River that the rates have been depressed somewhat below the rate obtaining under the percentage adjustment. To influence the movement of some commodities, it is necessary for trunk lines not serving Buffalo to establish the same rates to their western termini, such as Pittsburgh, Pa., Wheeling, W. Va., and Charleston, W. Va., as those made to Buffalo, as the competition for business through these points to and from the west is very keen among these independent systems.

As the distance from the point of origin becomes greater, these exceptions become more rare. The percentage principle is generally adhered to, except perhaps as to such commodities as brimstone, which, on account of being consumed at few points, is greatly restricted in its movement. The fact that the imported product comes into competition with the domestic product from the Louisiana mines necessitates the blanketing of rates over a larger territory than would obtain were it not for these conditions. Consequently, rather than establish a high rate in the first instance and scale it in accordance with the percentage adjustment, a low rate is established and observed as a minimum throughout a large part of the territory. It will be observed, as far as this commodity is concerned, that 17 cents is held as a minimum rate in a blanket applying from the 72 per cent to the 87 per cent groups, inclusive. By this means the consuming points are placed on a parity with each other on this particular traffic.

It will be observed that the other commodities, however, are scaled on the authorized percentage basis and that the fractions are perpetuated under the rule for the disposition thereof, set forth in connection with the discussion relating to the class rates.

It is possible to take any one of the publications of the carriers in Trunk Line Territory, naming commodity rates from eastern points of origin to western percentage territory, and check the rates published therein from the information set forth in this particular section. An inspection of the rate, whether it carries a fraction or not, will indicate whether it is on the old basis or the new, and where it is blanketed or extended over a large area of territory, one may safely infer that the minimum rate is that established to the furthermost percentage group.

And for those who have access to such publications, there is no more convenient method to employ than to take one and compute the rates shown therein on the basis set forth in this chapter.
# CHAPTER XI

### ALL-RAIL RATES WESTBOUND-Continued

The Adjustment of Rates from Other Eastern Basing Points

# (a) Class Rates

It has been shown how the rates established from New York to Chicago are used in establishing rates from New York to other points in percentage territory. It now becomes necessary to illustrate the application of the New York rates from other eastern points of origin, which are hinged or based on the rates established from New York. In taking up the adjustment, reference should be made to Map 9 of the *Atlas of Railway Traffic Maps*, whereon are indicated the more important of the eastern base points, showing the territory from which the rates are applied. The eastern basing points as indicated thereon are as follows:

Albany, N. Y.	Syracuse, N. Y.	Boston, Mass.
Philadelphia, Pa.	Belington, W. Va.	Ogdensburg, N. Y.
Scranton, Pa.	Lexington, Va.	Rochester, N. Y.
Baltimore, Md.	Richwood, W. Va.	Virginia Cities.
Cumberland, Md.	Williamsport, Pa.	-

The last-named group includes, among others, Newport News, Lynchburg, Richmond, and Petersburg, Va.

In addition to these groups, there are a number of other groups indicated by the addition of the word "plus" or the sign "+." For example, rates from Long Island are made certain differentials over the New York rates and this is indicated on the map by the term "New York plus." Also the group immediately

south of New Jersey is marked "New York plus" and for the same reason. There are numerous other groups marked as taking arbitraries or local rates over the basing groups, sometimes the plus sign being employed instead of the word "plus."

While the greater part of the New England States is shown as taking the Boston adjustment of freight rates, the Boston rates apply in general only from mainline points on the more important systems." Small lines, and branch lines as well, are adjusted on a differential basis, which may be found by adding fixed amounts to the base-point rates, or by the addition of the full local rate.

The main-line stations, however, are accorded the Boston rates, which are blanketed over the entire territory and applied to all points in percentage groups. The rates from Boston (which apply from approximately all main-line points in New England and a considerable number of points in the Dominion of Canada) to percentage points taking 71 per cent of the Chicago rates and higher are identical with the New York rates to the same destinations.

It is common to blanket rates to or from intermediate points, but it is rare to accord the base rates to wide areas *beyond* the basing point, as done in this instance. Blanket rates are usually applied to the intermediate points and not to points beyond. For this reason, the territory covered by the Boston rate group is particularly favored by the application of the New York rates.

The aim of this procedure is apparent, in that manufacturers and merchants located all over New England are placed on a parity with manufacturers and merchants nearer the points of consumption and are enabled thus to market their products at transportation costs not greatly in excess of those applying from many large manufacturing points within Trunk Line Territory.

Indeed, it may be said that at times, especially during

the early days of the development of this rate structure, the carriers serving the seaboard cities in the New England States provided rates to western destinations that were less than those currently maintained from New York, Philadelphia, and other seaboard cities in Trunk Line Territory. Particularly was this true of the Canadian lines operating by way of Portland and through the Dominion of Canada to western United States points (through the Niagara and the Detroit and St. Clair River frontiers). With the fixing of agreed differentials for the respective routes, this feature has been overcome, and now standard all-rail rates from Boston are not lower than the standard all-rail rates from New York: neither are the differential rates of the same kind from Boston less than from New York, although in both instances, the differential rates are less than the standard all-rail rates.

Table 19 has been prepared with a view of setting forth, in a very explicit manner, the general basis for the construction of rates from eastern base points other than New York. The various items comprising the table will now be taken up in order and an illustration given of the application of each.

### TABLE 19

1.	BASIS OF	CLASS RATE	IS FROM T	HE EASTERN	BASING	GROUPS
	Specified	TO CENTRA	l Freight	ASSOCIATION	TERRIT	ORY

М	FROM To Bru	In Cents per 100 Pounds										
l TE	BASE	CENTAGE					Cla	sses				REMARKS
POINTS	POINTS	GROUPS		1	2	R25	3	R26	4	5	6	-
		Buffalo, N.Y. Erie,	)	5	5		21		21	$2\frac{1}{2}$	2	Higher than
1 Boston, Mass.	Pitts- burgh, Pa.		5	-4	3,4	3	2.4	3	2,5	2	rates from New York to the same	
		67 70	J	$3.1 \\ 0.7$	$2.7 \\ 0.7$	$\begin{array}{c} 2.3 \\ 0.6 \end{array}$	$2.1 \\ 0.5$	$\frac{1.6}{0.4}$	$\frac{1.4}{0.3}$	$^{1.3}_{0.3}$	$\begin{array}{c} 1.1 \\ 0.3 \end{array}$	points
-		71-120										New York rates

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# TABLE 19-Continued

## I. BASIS OF CLASS RATES FROM THE EASTERN BASING GROUPS SPECIFIED TO CENTRAL FREIGHT ASSOCIATION TERRITORY

М	FROM	To PER-	IN CENTS FER 100 POUNDS	
ITE	BASE	CENTAGE GROUPS	Classes	REMARKS
			1 2 R25 3 R26 4 5 6	
2	Albany, N. Y.	$\begin{array}{c} 60\\ 67\\ 70\\ 72\\ 73\\ 73\\ 74\\ 75\\ 76\\ 77\end{array}$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Less than the rates from New York to the same points
¢		78-120		New York rates to the same points less 20% of New York- Chicago rates
		$\begin{array}{c} 60\\ 67\end{array}$		Same rates as from New York
21	New Berlin, N. Y.	$70 \\ 71 \\ 72 \\ 73 \\ 74 \\ 75 \\ 76 \\ 77$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Lower than rates from New York
		78-120	6 5 4 4 3 3 2 2	
		60 67 70	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Higher than New York rates to the same points
3	Ogdens- burg, N.Y.	71 72 73 74 75 76 77 77 78 79 80 81	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	* Lower than New York rates to the same points
		82-120	10 8 6.8 6 4.8 4 4 3	
4	Roches- ter,	60 67 70 71	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Lower than New York rates to the same points
	Syracuse, N. Y.	72-120		70% of New York rates

# TABLE 19-Continued

## I. BASIS OF CLASS RATES FROM THE EASTERN BASING GROUPS Specified to Central Freight Association Territory

W	FROM EASTERN	To Per-	] ]	IN CEN					
ITE	BASE	GROUPS			Cla	sses			REMARKS
	POINTS		1	$2 \mathrm{R2}$	25(1) 3]	R26(1)4	5	6	
5	Philadel- phia, Pa.	60-120	6	6	·)	<u>.)</u>	2	2	Lower than New York rates to the same points
6	Balti- more, Md.	60-120	8	8		3	3	3	Lower than New York rates to the same points
		60	48	41.5	34	23	19.5	16	Same rates as from Philadel- phia
7	Seran- ton, Pa.	67 70	$\begin{array}{c} 48.5\\57\end{array}$	$42.5 \\ 49.5$	$\frac{34}{40}$	$\begin{array}{c} 27\\ 27.5\end{array}$	$\begin{array}{c} 19.5\\ 23 \end{array}$	16 19	Arbitrary rates
		71-120							80% of rates New York to the same points
		60	46	39.5	33	22	18.5	15	Same rates as from Baltimore
8	Williams- port,	$\frac{67}{70}$	$46.5 \\ 55$	$\begin{array}{c} 41 \\ 47.5 \end{array}$	33 39	$\frac{22}{23}$	$18.5 \\ 19.5$	$15.5 \\ 16.5$	Arbitrary rates
	Pa.	71-120							77% of rates New York to the same points
		$\begin{array}{c} 60 @ \\ 67 \end{array}$	$\begin{array}{c} 46\\ 46.5\end{array}$	$\begin{array}{c} 39.5\\ 41 \end{array}$	33 33	$\frac{22}{22}$	$18.5 \\ 18.5$	$\frac{15}{15.5}$	Arbitrary
9	Cumber- land, Md.	70	®55	47.5	39	23	19.5	16.5	Via Wn. Md. Ry. Via B. & O. R. R. Arbitrary rates
		71-120							77% of rates New York to the same points

#### TABLE 19—CONTINUED

### I. BASIS OF CLASS RATES FROM THE EASTERN BASING GROUPS SPECIFIED TO CENTRAL FREIGHT ASSOCIATION TERRITORY

M	FROM	To Per-		IN CE	DS				
TE	EASTERN	CENTAGE				Remarks			
-	GROUPS	GROUPS	1	2	3	4	5	6	
	Beling-		Ci	mber	land r	ates b	ut not	less	
10	ton,	60-120			t.	han			
	W. Va.④		55.5	48.5	37	26	22.5	18.0	
	Rich-		C	umber	land r	ates b	ut not	less	
11	Wood,	60-120	60.5	52.5	-40 t.	11211 28	24.5	20	
	Wash-	l	8	8	3		3	3	
12	ington.	60-120	under	New ]	York r	ates bi	itnotl	essthan	
	D. C.(5)	00 120	66.5	58	43	29.5	24.5	20	
		95-120	8	6	4	3	2	2	
			[	und	er Bal	timore	e rates		
			8	6	4	3	2	2	
		60-94	under	Baltin	nore ra	ates bu	t not l	ess than	
			the rat	tessho	wn bel	.ow (m	inimuı	n rates)	
		60 and 67	66.5	58	43	29.5	24.5	20	
		66	68	58.5	47	32	27.5	22	
		10-10	66.5	58	43	29.5	24.5	20	
		78	66.5	58	44	30	25	20.5	
		19	66.5	58	44.5	30	25.5	20.5	
13	Virginia	81 81	00.0	98 E0	40	30.0	20	41 91 5	
	Cities	82	66.5	50 58	40.0	215	26.5	21.5	
		83	66.5	58	46	31.5	27	22	
		84	67.5	58.5	46	31.5	27	22	
		85	67.5	58.5	46	31.5	27.5	22	
		86	67.5	58.5	46	31.5	27.5	22	
		87	67.5	58.5	46	31.5	27.5	22	
		88	67.5	58.5	46	31.5	27.5	22	
		89	67.5	58.5	46.5	31.5	27.5	22	
		90	67.5	58.5	47	32	27.5	22	
		92	67.5	58.5	48	32.5	28	22.5	
	ł	95	67.5	59.5	49	33	28.5	23	
	1	94	168.5	60.5	49.5	33.5	29	23	1

 $\odot For the construction of Rule 25 and Rule 26 rates between the various groups indicated see page 112.$ 

③Except that to Pittsburgh and Wheeling the rates shown in note ③ apply.
③Except that to Parkersburg the rates shown below apply.

Classes	1	2 .	3	4	5	6	
Rates	43.5	36	28	19.5	17	13.5	
①Except that to all ``	points not	rth of B	utler, Pa.	, on B.	& L. E. R	. R.; all	point
D. A. V. & P. R. R.	; all poin	ts on J.	W. & N.	W. R. 1	R.; all poin	ts north	east o
utler to Mt. Jewett,	Pa. on H	. & O.	R. R.; all	points	east of As	shtabula,	Ohio
n N. Y. C. & St. L.	$\mathbf{R}, \mathbf{R}, \mathbf{all}$	points	east of Y	oungst	own, Ohio,	and Tra	inster
a., on Erie R. R.; and	all points	east of	the line A	sntabul	a to Young	stownu	irougi
nuover, Umo, on L. S.	. @ 141. 15.	n. n., t	ne tonown	1g rates	appry:		

or B OI P: A

Classes.... 1 2 3 4 5 6 Rates..... 66.5 58 43 29.5 24.5 20  $\bigcirc$  B. & O. R. R. name Baltimore rates from Washington, without minima, Minimim scale is published by C. & O. Ry.

Boston, Mass.-In item 1, Table 19, it will be observed that the rates from Boston, Mass., and points taking Boston rates to points east of, but not including, the 71 per cent group are made certain figures or differentials (as they are designated) over the rates from New York to the same destinations. These figures express (as far as is possible by means of figures) the relative advantage of the locations of New York and Boston on shipments destined to these points. The addition of these figures or differentials to the rates from New York will give the rates that must be maintained by the initial lines in constructing their freight publications which name rates from Boston, Mass., and other points taking Boston rates. To destinations located west of the points referred to above or to points in percentage groups 71 to 120 inclusive, the rates are the same as apply from New York to the same destinations. While to points located east of the 71 per cent group New York has lower rates. to the territory west thereof the Boston group has the benefit of the same rates as apply from New York.

Albany, N. Y.—The rates from Albany and points taking Albany rates to percentage groups lying east of, and including, the 77 per cent group are fixed with relation to the rates from New York to the same destinations, but the differentials are *under* the rates from New York, whereas it was learned from the preceding paragraph that the rates from Boston, Mass., to points east of, but not including, the 71 per cent group are certain amounts *over* the rates from New York. Albany and many of the points of origin taking Albany rates are located close to the head of, or are reached by, the Erie Canal. These points are very much less important from a traffic standpoint than New York and Boston but are given rates which are lower than those in effect from either New York or Boston to the same destinations and which

enable this group of points to compete on equitable terms with the two larger cities named. This indicates, in some degree, the advantage of the Erie Canal as a medium for compelling lower rates.

To percentage territories lying west of the 77 per cent group, the percentage principle is applied in constructing the rates from Albany, it being first necessary to construct the rates from New York to the desired percentage group. Assuming that it is desired to construct rates to the 110 per cent group, we would obtain as the rates from New York to the 110 per cent group the following figures:

Classes	1	2	3	4	5	G
Rates	99	87	66	46	42.5	33

from which is to be deducted 20 per cent of the New York-Chicago rate, as provided in Table 19, which is as follows:

Classes	1	2	3	4	5	6
Rates	18	16	12	8.5	7	6

This results in a scale of rates as follows:

Classes	1	2	3	4	5	6
Rates	81	71	54	37.5	35.5	27

Representative rates from Albany to other percentage groups are as follows:

Classe	es		1	2	3	4	5	6
71%	group	rates.	48	41.5	34	23	19.5	16
80%	group	rates.	54	47	36	26.5	22	18
87%	group	rates.	63	53	41.5	31.5	24.5	20
117%	group	rates.	87.5	76.5	58	44	, 35	- 29

New Berlin, N. Y.—The location of this group will indicate that to short-haul points the distance does not materially differ from that from the New York group. To percentage points including the 60 to the 67 per cent groups, the rates are made the same as from New York.

To the other percentage groups, in order to avoid abrupt increases or decreases in rates, certain differential or arbitrary scales have been established, under which the rates are constructed from New Berlin and points taking the same rates. It will be observed that as the distance becomes greater and greater, the arbitrary scale increases. That is, while only fourtenths of one cent is subtracted from the New York rate in making the first-class rate to the 71 per cent group, the deduction to the 78 per cent group is 6 cents.

Representative rates from this group to western percentage groups are as follows:

Classes	1	2	3	4	5	6
71 <i>Cl</i> group r	tos 61	56.5	43	30	26	21.5
11% group re		58	4.4	30.5	27	22
80% group ra	ites 00	00	E 4	97.5	20	97
97% group ra	ites. 81.5	71.5	94	94.9	00	

In connection with this adjustment, it must be noted that it is not observed in all cases by all lines. For example, the New York, Ontario and Western Railway in establishing rates from New Berlin and points taking the same rates employs the New York rates with certain exceptions and restrictions.

Ogdensburg, N. Y.—In this case, we have an adjustment of rates where, to the short-haul points, the rates are made by the *addition* of arbitraries to the New York rates, and to the long-haul points, by the *deduction* of arbitrary scales from the New York rates.

Representative rates to some of the groups obtained under this scale are as follows:

Classes	1	2	3	4	5	6
78% group rates.	62	55.5	43	30	25	21.5
85% group rates.	66.5	59	45	31.5	26.5	22.5
97% group rates.	77.5	68.5	52	36.5	31	26
1170 group rates	05.5	015	64	45	28	32

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Rochester-Syracuse, N. Y., and Points Taking the Same Rates.—In this case, as was the case with respect to the construction of rates from Albany to short-haul points, we have an arbitrary adjustment (providing for the deduction of certain arbitrary scales from the New York rates) and to other points, the application of a fixed percentage. The application of the percentage principle in this instance is quite simple, and no illustration is required. Representative rates obtained under the existing adjustment are indicated below:

Classe	s		1	2	3	4	5	6
71%	group	rates.	43.5	37.5	28	19.5	17	14.5
83%	group	rates.	52	46	35	24.5	21	17.5
100%	group	rates.	63	55.5	42	29.5	25	21
116%	group	rates.	73	46	48.5	34.5	29.5	24.5

Philadelphia, Pa., Baltimore, Md., and Points Taking the Same Rates .- The adjustment of rates from both Philadelphia and Baltimore is quite simple, owing to the fixed differentials that have been conceded these ports and related points under the existing rates established from New York. The purpose of the differentials is to equalize the competition of the stronger port of New York, and to enable Philadelphia and Baltimore to attract a portion of the vast tonnage which moves through the Atlantic Ports to and from foreign countries. It is not unlikely, at least it has been so alleged, that were this not the case, New York by reason of superior advantages, more frequent sailings, etc., would attract a greater portion of this traffic in a short time. While this may be open to question, it is the principle under which these differentials have been established.

It will be noted that these differentials do not fluctuate as do the arbitrary scales mentioned in the preceding adjustment. That is, the first-class rate from Philadelphia to the 60 per cent group is 6 cents under the New York rate, as is the rate to the 120 per cent group.

In passing, it may be said that in the application of these differentials, where commodity rates are established which are the same as the class rates, the corresponding class differential is deducted from the New York rate, and that where the commodity rate is not the same as the class rate, the rate established for the next higher class will be employed. In other words, if a commodity rate were established on the basis of 20 cents, New York to Chicago (this being less than the sixth-class rate), it would involve the deduction of the sixth-class differential in establishing the rate from either Philadelphia or Baltimore, as this is the next higher class rate.

Scranton, Pa., and Points Taking the Same Rates.— In connection with this adjustment, there is one feature which has not as yet been introduced, and that is the establishment of arbitrary rates in serving some of the percentage groups. For example, we find that to the 60 per cent group, rates are made the same as from Philadelphia, and that to the 67 and 70 per cent groups, certain figures are named which are called arbitrary rates, which rates are made without reference to the existing adjustment in the construction of rates in general from this point.

It is well, in this connection, to draw a distinction as to the terms "arbitrary" and "arbitrary rates." The former is usually a sum that is added to, or subtracted from, the rate to a base point to construct a through rate between two given points, while an arbitrary rate is one that is constructed independently or arbitrarily by one or more carriers to apply between given points without relation or reference to other rates that may be established between those points and points in related territory. The use of arbitrary rates

in cases like this is due to peculiar traffic conditions which cause the carriers to depart from the usual basis.

To points in percentage groups 71 to 120, inclusive, the Scranton rates are made 80 per cent of the existing New York rate to the same group. Rates to selected groups are as follows:

Classes	1	2	3	4	5	6
71% group rat	es. 51	45	34	24	20.5	17
78% group rat	es. 56	49	37.5	26.5	22.5	19
90% group rat	es. 65	57	43	30.5	26	21.5
110% group rat	es. 79	69.5	53	37	31.5	26.5

Williamsport, Pa., and Points Taking the Same Rates.-As shown in item 8 of Table 19, the rate from Williamsport, Pa., to the 60 per cent group, is the same as from Baltimore, but to both the 67 and 70 per cent groups, rates are arbitrarily established on a 40.7-cent and a 44.7-cent scale, respectively. From Williamsport to percentage groups 71 to 120, inclusive, the rates are made 77 per cent of the rates from New York to the same destinations, from which it will be seen that from both the Scranton group and the Williamsport group to the percentage groups above named, the rates are the result of the application of a double percentage system. The rates from New York to the percentage groups are a percentage of the New York-Chicago rates; the rates from Scranton to these percentage groups are a percentage of the New York rates to the same destinations.

Representative rates obtained under the application of this adjustment yield the following figures to the percentage groups designated below:

Classes	1	2	3	4	5	6
71% group rates.	49.5	43	33	23	19.5	16.5
83% group rates.	57.5	50.5	38.5	27	23	19.5
87% group rates.	60.5	52.5	40	28	24.5	20
93% group rates.	64.5	56.5	43	30	26	21.5
120% group rates.	83	73	55.5	39	33	27.5

### ALL-RAIL RATES WESTBOUND

Cumberland, Md., and Points Taking the Same Rates.—This adjustment does not differ materially from that employed in establishing rates from Williamsport, Pa., with the exception that the arbitrary scales agreed upon by the interested carriers vary, in some instances, in so far as the rates to the 60, 67, and 70 per cent groups are concerned. The rates to points in the remainder of percentage territory are the same as those established from Williamsport, which are made on the basis of 77 per cent of the New York rates to the same point of destination.

Belington, W. Va., Richwood, W. Va., and Points Taking the Same Rates.—The adjustment employed in establishing rates from Cumberland is also applied in establishing class rates from Richwood and Belington, W. Va., and points taking the same rates, with the proviso that the rates so established must not yield from Belington less than the following scale:

Classes	1	2	S	4	5	6
Rates	55.5	48.5	37	26	22.5	18.5

and from Richwood less than the following scale:

Rates 60.5 52.5 40 28 24.5 20	Classes Rates	$\begin{array}{c}1\\60.5\end{array}$	$\frac{2}{52.5}$	$\frac{3}{40}$	$\frac{4}{28}$	$5 \\ 24.5$	$\frac{6}{20}$
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These rates are to be observed as minimum rates to points in percentage territory on traffic originating at these points, or points taking the same rates, or in establishing rates from points basing thereon. Of course, as the distance becomes greater or as the rate progresses through the territory, the rates obtained under the application of the percentage principle, in all cases, exceed the minimum scales. It is necessary to observe them only in so far as the short-haul traffic is concerned.

Washington, D. C.—It may be stated, as a general proposition, that the rates or basis for rates to be

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applied in connection with traffic originating at the national capital and related points is the same as employed from Baltimore, Md., to the same destinations, with the exception that minimum rates based on a first-class 57.7-cent scale are to be observed. This minimum, in general however, affects only the territory lying east of, but not including, the 80 per cent group.¹

Virginia Cities .- A great deal of traffic, which finds a ready market in the northern and western cities in Official Classification Territory, originates south of the Virginia-North Carolina state line in the Piedmont plateau. The lines serving these Virginia Cities, which are virtually the gateways to the south through which traffic, moves to final destinations, are in competition with other lines and connections operating through Ohio River Crossings. Consequently, we find that the existing basis for rates (particularly as concerns the more distant percentage groups) is on a very low scale involving the application of a double differential to New York rates in determining the through rates from -Virginia Cities to the same groups of destinations. For example, were it desired to construct rates to the 110 per cent group, the Baltimore differentials are first deducted, obtaining the following scale:

From this scale are then deducted the Virginia Cities' differentials under Baltimore, shown in item 13, of Table 19, obtaining the following scale:

To points east of, and including, the 94 per cent group,

⁹The B. & O. R. R., however, applies the Baltimore rates from Washington without observance of minima rates. The minimum scale is published by the C. & O. Ry.

the same procedure is employed, observing the minima rates which are established to such groups and which are specifically indicated in item 13, Table 19.

As previously intimated, this is, of course, a competitive adjustment, and enables the lines serving such cities to attract to this route considerable tonnage which would, in all probability, move by way of western river crossings or gateways, were some relief not accorded.

Map 9 shows stations Lexington to Winchester, Va., Basic City, Va., to Hagerstown, Md., and Richmond to Alexandria, Va., in the Lexington group. However, on shipments routed northward from Washington, Alexandria, Hagerstown, and Winchester via the trunk lines to percentage territory in the United States, the Baltimore rates apply, but when shipments are ronted southward via the Chesapeake & Ohio Railway destined to percentage territory, Washington, Alexandria, Hagerstown, and Winchester are all included in the Lexington group and the Baltimore rates apply subject to the Virginia Cities-Pittsburgh scale as minimum rates. The Lexington rates are the same as the Baltimore rates except where the Virginia Cities-Pittsburgh scale is slightly higher than the Baltimore rates. The Virginia Cities group is also shown on Map 9. Main lines of the Chesapeake & Ohio Railway from Norfolk, Berkley, and Fort Monroe, Va., to Malden, W. Va., via both Staunton and Lynchburg, are included in the Virginia Cities group, also the Norfolk and Western Railway from Norfolk to Roanoke and Salem, Va., inclusive. From all stations on these main lines, the rates from the Virginia Cities are applied.

In connection with the rates to Virginia Cities, it is interesting to note that from stations on the Virginian Railway, lying immediately south of the main line of the Norfolk and Western Railway, the rates to Virginia

Cities are applied only from Roanoke and Salem on the west, and Suffolk on the east thereof. Stations on the Virginian Railway west of Suffolk and east of Roanoke take arbitraries over the rates to Virginia Cities, governed by the Official Classification and exceptions. Rates from points south of the Virginian Railway to percentage territory shown on Map 3 are made on combination rates through Virginia Gateways or the Ohio River Crossings and are, consequently, materially higher than the remarkably low rates from the Virginia Cities. Points on the Virginian Railway, because of intermediate location, are perhaps justly accorded rates, neither so low as the rates to Virginia Cities nor so high as the rates to points lying farther south.

Map 9 also shows certain points in lines lying between the Lexington groups and between the main lines of the westbound routes to Virginia Cities as taking arbitraries over the Virginia Cities.

The stations lying between the two Lexington groups take either arbitraries or local rates over the Baltimore rates on the north, over the Lexington rates on the east and west, or over the rates from Virginia Cities on the south. The shipments from these interior points are usually made via the route over which the cheapest combination may be obtained. For example, from Manassas, Va., freight may be shipped (1) westward through Front Royal at the Lexington rate, plus the local rates from Manassas to Front Royal, (2) northward through Washington, D. C., at the Baltimore rate, plus the local rates from Manassas to Washington, or (3) southward through Orange, Va., at the rates from Virginia Cities plus the locals from Manassas to Orange. The Manassas freight is likely to move over the route by which the best service is offered or the cheapest combination applies. This is true of all other stations within this group shown on Map 9. Traffic from stations

lying near the Baltimore group would naturally flow through the Baltimore group, while the traffic from stations near the Lexington and Virginia Cities groups would flow through those groups. There are also certain lines between the Norfolk and Western Railway and the northern route of the Chesapeake & Ohio Railway that take arbitraries over the rates to Virginia Cities. West Point, Va., on the Southern Railway, is shown as taking the rates to and from Virginia Cities, while points between West Point and Richmond take arbitraries over the rates from Virginia Cities. In studying the Virginia Cities and Lexington groups on Map 9, it should be borne in mind that the rates from Richmond, Doswell, Staunton, Basic City, and Lexington, when shipments are routed northward, are the Lexington rates, but when shipments are routed westward via the Chesapeake & Ohio Railway from these same points to Central Freight Association Territory, the rates are the rates from Virginia Cities. This means that the fourth section of the Act to Regulate Commerce is not violated by the direct routes in this instance. However, it has been shown that the rates via the Virginian Railway do violate the fourth section, in that the rates to Virginia Cities apply from Norfolk, Suffolk, etc., on the east over the Virginian Railway, while the rates from stations between Suffolk and Roanoke are arbitraries over the rates to Virginia Cities. There are also many departures from fourth section of the Act to Regulate Commerce as concerns rates via circuitous routes from points in Virginia to percentage territory shown on Map 3. It should be remembered, however, that competitive conditions often entirely justify violations of the fourth section, and the Interstate Commerce Commission has repeatedly recognized this fact.

The fourth section of the Act to Regulate Commerce is popularly known as the long-and-short-haul clause of

the Act. This section provides that it shall be unlawful for any common carrier, subject to the provisions of this Act, to charge or receive any greater compensation in the aggregate for the transportation of passengers or of like kind of property for a shorter than for a longer distance over the same line or route in the same direction, the shorter being included within the longer distance, or to charge any greater compensation as a through route than the aggregate of the intermediate rate.

How class rates are based from the thirteen groups in Trunk Line and New England territories to percentage territory has now been set forth. There are numerous small branch lines within a number of the eastern groups that take arbitraries over the group rates. In such cases, the first letter of the group name is usually used with a plus sign following it to indicate that the group rate, plus either arbitraries or local rates, applies. In some cases the routing of freight affects the rates. For example, in the New York group, northwest of New York, the line of the Ulster & Delaware Railroad is shown as taking either "New York plus" or "Albany plus." New York rates plus arbitraries apply when routed via Kingston, N. Y., and the Albany rates plus arbitraries apply when routed by Oneonta, N. Y.

Not infrequently it happens that certain deliveries at one of the base points may require the addition of arbitraries in determining the through rate. For example, while certain stations on the South Brooklyn Railway are given the benefit of the flat New York rates on traffic to percentage territory, other points located thereon are constructed on an arbitrary basis by the addition of the following figures to the New York rates:

Classes	1	2 .	3	4	5	6
Rates	õ	4	3	2	2	2

To set forth clearly the application of these rates as to whether or not arbitraries are to be employed, the carriers either individually or through their agents issue what are known as bases for rates, or billing instructions. These issues show the various points in the territory on, and reached via, their lines, and the base rates to apply in connection therewith or, where rates are established on an arbitrary adjustment, the arbitraries that are to be added to the indicated base points. While the maps contained in the Atlas of Railway Traffic Maps are compiled from reliable and authentic sources, in the event of differences between the maps and publications of the carriers as to a difference in group location, the issue of the carrier, published and filed with the Interstate Commerce Commission must be observed. When such differences occur, the matter should be taken up with the interested line in an endeavor to ascertain if some error has not-been made in publishing the adjustment.

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## CHAPTER XII

#### ALL-FAIL RATES WESTBOUND-Continued

# Adjustment of Rates From Other Eastern Base Points

# (b) Commodity Rates

As concerns the establishment of commodity rates from eastern base points, other than New York, the adjustment, in general, adhers closely to that employed in the establishment of class rates. Before taking up the details to be employed in connection therewith, however, it is well to consider several of the more important rules that are to be applied in connection with the bases.

(1) When a rate per ton is established on any commodity from New York to Chicago, either locally or as a basis for rates to other western points, and it is provided in connection therewith that a corresponding rate shall apply from other eastern cities, the rate per ton is in all cases used as the basis for computing the rate upon such commodity and not the equivalent rate in cents per hundred pounds.

For example, if we assume that a commodity rate has been established from New York to Chicago on the basis of \$3.20 per ton and its application is extended to apply from other eastern cities, the rate from Albany would be computed on the basis of 80 per cent of \$3.20, which would make the rate from Albany to Chicago \$2.56 per ton. (2) When a rate per hundred pounds, or per ton is established on any commodity from an interior trunkline base point (other than points taking Philadelphia or Baltimore rates) to Chicago, and it is provided in connection therewith that corresponding rates shall apply to other western points, such rates are determined by computing the rates per hundred pounds, or per ton on the established percentages shown on Map 3, Atlas of Railway Traffic Maps, of the rates from such interior points to Chicago.

For example, assuming a commodity rate has been established from Albany, N. Y., to western points on the basis of 16 cents per hundred pounds, Albany to Chicago, the rates to East St. Louis would be computed on the basis of 117 per cent of 16 cents which would make the rate to East St. Louis 18.7 cents per hundred pounds.

(3) When a rate per hundred pounds, or per ton is established on any commodity from an interior trunkline point taking Philadelphia or Baltimore rates to Chicago and it is provided in connection therewith that corresponding rates shall apply to other western points. such rates are computed on the basis of the equivalent New York rate per hundred pounds, or per ton.

For example, assuming a commodity rate has been established from Lancaster, Pa. (a Philadelphia rate point), to western points on the basis of 22 cents per hundred pounds, Lancaster to Chicago, to obtain the East St. Louis rate first add 2 cents per hundred pounds (the Philadelphia differential), thus making the equivalent New York rate 24 cents per hundred pounds. Second, determine 117 per cent of 24 cents, which would make the rate, New York to East St. Louis, 28.1 cents per hundred pounds. Then deduct the Philadelphia arbitrary of 2 cents per hundred pounds, and the result is 26.1 cents per hundred pounds, which is the rate from Lancaster to East St. Louis, Ill., on a commodity carry-

ing a rate, Lancaster, Pa., to Chicago, Ill., of 22 cents per hundred pounds.

In the following table is set forth the basis used by the Eastern Trunk Lines for the construction of rates from eastern base points, other than New York, to various western percentage groups including the so-called "Western Termini of the eastern trunk lines."

## TABLE 20

BASIS FOR COMMODITY RATES FROM GROUPS IN TRUNK LINE AND New England Territories to Central Freight Association Territory

TTEM	FROM EASTERN GROUPS	To Percentage Groups	RATE BASIS FOR COMMODITIES
1	Boston, Mass.	Trunk Lines' West- ern Termini and 60% points	When commodity rates from New York are the same as standard class rates from the same point, rates upon the same commodities from Boston, Mass., and New England points taking Boston rates are made by adding to the pub- lished commodity rates from New York the same amount as the figure of the difference between the standard class rate from New York and the corresponding class rate from Boston to the same destinations. (Table 19, item 1.) When commodity rates from New York are <i>not</i> the same as standard class rates from that point, rates upon the same commodities from Boston, Mass., and New England points tak- ing Boston rates are made by adding to the published commodity rates from New York the same amount as the figure of the difference between the class rate next higher than the commodity rate applicable from New York and the corresponding class rate from Boston to the same destinations. (Table 19, item 1.)
		67-71	Same rates as from New York to 71% points but not less than from Boston to 60% points.
		72-120	New York rates but not less than from Boston to $60\%$ group.
2	Albany, N. Y.	60-120	80% of rates from New York to Chieago and other 100% points. To other points rates are scaled on the basis of the established percent- age of the rate from Albany to Chieago, except that to the nearer percentage groups certain minima are observed.

### TABLE 20-CONTINUED

### BASIS FOR COMMODITY RATES FROM GROUPS IN TRUNK LINE AND NEW ENGLAND TERRITORIES TO CENTRAL FREIGHT ASSOCIATION TERRITORY

ITEM	FROM EASTERN GROUPS	To Percentage Groups	RATE BASIS FOR COMMODITIES
		60-77	Varying amounts under the rates from New York, with no uniformity for one commodity as compared with all the others. Rates from D. L. & W. R. R. points taking New Berlin group rates are generally higher than rates on same commodities via N. Y. O. & W. Ry., i. e., New York rates, net, are used to a greater extent by the D. L. & W. R. R., and, when less than New York basis is published by that company, the arbitraries are smaller than the amounts below New York rates pub- lished by the N. Y. O. & W. Ry.
3	New Berlin,	100	Less than rates from New York $1 = 2$ Classes 1 2 3 4 5 6 Differentials 6 5 4 3 2 2
	N. Y.	78-120 (except 100)	<ul> <li>Percentages shown in groups on Map 3 of New Berlin-Chicago rates</li> <li>N. Y. O. &amp; W. Ry.—2 cents per 100 pounds under rates on same commodities from New York. There are instances in which rates are 3 cents under New York, namely, gun, pontianic, and licorice root.</li> <li>D. L. &amp; W. R. R.—For more than half the number of commodities which are given a general application of rates to western points. the arbitrary is 2 cents. For the remaining commodities, the arbitrary is 1 cent per 100 pounds.</li> </ul>
4	Malone- Ogdens- burg, N. Y.	60 67-77 100 78-120 (except 100)	<ul> <li>No fixed basis for all commodities.</li> <li>Rates for each commodity are made with some relationship to rates from New York, but the relationship is not uniform. For example:</li> <li>I. On Starch from Malone, the rates are 3 cents under New York rates, with rate to 82% group as minimum to percentage groups east, except to 60% group, which is lower.</li> <li>2. On serap iron and scrap steel from Ogdensburg, rates are on the same basis.</li> <li>3. On old car wheels and axles from Ogdensburg, rates are 1 cent under New York rates, with rate to 75% group as minimum to percentage groups east to, and including 74% group. To each of the remaining groups east, a different rate is announced, with no apparent relationship to New York rates.</li> <li>4. On elay and tale from certain points.</li> </ul>

# TABLE 20-Continued

### BASIS FOR COMMODITY RATES FROM GROUPS IN TRUNK LINE AND NEW ENGLAND TERRITORIES TO CENTRAL FREIGHT Association Territory

ITEM	FROM EASTERN GROUPS	TO PERCENTAGE GROUPS	RATE BASIS FOR COMMODITIES
4	Malone- Ogdens- burg, N. Y.	60 67-77 100 78-120 (except 100)	<ul> <li>Ogdensburg group, rates are 1 cent under New York rates, with rate to 80% group (on basis of 80% of rate from New York to Chicago minus 1 cent) as minimum to all percentage groups east.</li> <li>On wet wood pulp from Malone and Ogdensburg, rates are 73% of New York rates, with rate of 81% group (on basis of 73% of rate from New York to that group) as minimum to all percentage groups east.</li> <li>On ferro-manganese from Ogdensburg, rate to 100% group is 3 cents under New York rate, and rates to all groups east are scaled on the percentage applicable thereto, furnishing one of the very few instances in which the percentage system is consistently applied westbound.</li> </ul>
5	Roches- ter- Syra- cuse, N. Y.	60-120	70% of rates from New York to Chicago and other $100\%$ points. To other points rates are scaled on the established percentage basis of the vate from Syracuse and Rochester to Chicago.
6	Philadel- phia- Balti- more	60-120	Following differentials less than from New York to same groups³Classes123456Differentials662222Differentials833
		60	Same rates as from Philadelphia ⁴
7	Seran- ton, Pa.	67-120	80% of rates from New York to Chicago and other 100% points. To other points rates are scaled on the established percentage basis of the rate from Scranton to Chicago but not less than from Philadelphia to 60% group. In many instances minima rates are observed to groups 67% to and beyond 71%.
		60	Same rates as from Baltimore
8	Wil- liams- port, Pa.	67-120	77% of rates from New York to Chicago and 100% points. To other points rates are scaled on the established percentage basis of the rate from Williamsport to Chicago but not less than from Baltimore to 60% group. In many instances minima rates are observed to groups 67% to and beyond $71\%$ .

### TABLE 20-CONTINUED

#### BASIS FOR COMMODITY RATES FROM GROUPS IN TRUNK LINE AND NEW ENGLAND TERRITORIES TO CENTRAL FREIGHT Association Territory

ITEM	FROM EASTERN GROUPS	To Percentage Groups	RATE BASIS FOR COMMODITIES
	Cumber- land, Md.	60-120	77% of rates from New York to Chicago and 100% points. To other points rates are scaled on the established percentage basis of the rates from Cumberland to Chicago but not less than from Baltimore to 60% group when routed via Pennsylvania Railroad.
10	Beling- ton, W. Va Rich- wood, W. Va.	60-120	In general on Cumberland basis subject to various minima, but a number of exceptions are applied
11	Lexing- ton, Va.	60-120	General commodity rates are on the same basis as Baltimore rates but not less than the commodity rates from the Virginia Cities to Pittsburgh ⁵ .
12	Virginia Cities	60-120	Baltimore commodity rates subject to varying minima ³

¹When a commodity rate from New York to any group is the same as a standard class rate, the differential under or over the New York rate for the class rate is applied to the commodity rate; when a commodity rate is not the same, the differential for the next higher class is applied. ²In connection with westbound commodity rates upon a lower basis than that of the sixth class (i. e., 26.3 cents per 100 pounds, New York to Chicago), the sixth-class differential of 2 cents is usually applied. The differential for rates per ton, net or gross, is 20 times the differential per 100 pounds. ³The same commodity rates are applied on traffic from New York, Philadelphia, Baltimore, and points taking same rates to Buffalo and points taking suffalo rates as are duly established upon like traffic from Philadelphia to Erie, Pa., except as may be otherwise provided. ⁴On some commodities (cordage, barb wire, etc.) Scranton is accorded a lower rate than Philadelphia. ⁶Rates on various commodities from Lexington and the Virginia Cities are not made according to the general basis for commodity rates.

A comparison of many of the items in this table with those appearing in Table 19 will show that they are on the same basis as shown in connection with traffic under the class-rate adjustment.

In explanation of this basis for rate construction, we will follow the plan outlined in connection with the class-rate adjustment, and individual items comprising the table will be taken up in their order.

Boston, Mass., and Points Taking the Same Rates.— It will be noted that from item 1, in so far as the Western Termini Points and points in the 60 per cent group are concerned, that the same arbitraries that were employed in the class-rate adjustment are to be used in connection with the commodity rates, observing the following rules for the application of these arbitraries.

. (1) When commodity rates from New York are the same as standard class rates from the same point, the rates upon the same commodities from Boston, Mass., and points in New England Territory taking Boston rates are made by adding to the published commodity rates from New York the same amount as the figure of the difference between the standard class rates from New York and the corresponding class rate from Boston to the same destination.

For example, when a commodity rate is shown from New York to Chicago as  $31\frac{1}{2}$  cents, this is the same as the fifth-class rate. Consequently, in establishing the rates from Boston to points in the 60 per cent group, the fifth-class differential indicating the existing difference between the Boston rates and New York rates for this group is added to the existing New York 60 per cent commodity rate, resulting in a rate from Boston of 21.4 cents per hundred pounds.

(2) When a commodity rate from New York is not the same as the standard class rate from that point, rates upon the same commodity from Boston, Mass., and points in New England taking Boston rates are made by adding to the published commodity rates from New York the same amount as the figure of the difference between the class rate next higher than the commodity rate applicable from New York and the corresponding class rate from Boston to the same destination.

Through the remainder of the territory the New

York rates are applied from Boston without the addition of arbitraries, preserving from groups numbered 67 per cent to 71 per cent, inclusive, rates established from New York to the 71 per cent group as maxima. To illustrate, take the rate on new cotton bags, which is shown to be on a basis of 47.3 cents per hundred weight, New York to Chicago. To 71 per cent group points the rates from New York would be 33.6 cents per hundred pounds. The proviso is embodied in this item, however, that this rate is not to be less than that which is established from Boston to the 60 per cent group. Where it becomes necessary to construct the rate from Boston in order to determine whether or not the New York rate to the 71 per cent group is above or below the minimum required, the following procedure is employed. Assume a base rate of 47.3 cents per hundred pounds, New York to Chicago. As this is not the same as any of the existing class rates, the differential applying in connection with the next higher class rate is employed. The addition of the third-class differential of 3 cents to the 60 per cent group rate of 28.4 cents produces 31.4 cents as the rate from Boston to the 60 per cent group. As the figures obtained in the application of item 1 to the rates from New York to the 71 per cent group exceed this amount, the minimum is of no importance in so far as this particular commodity and group is concerned.

### BASES FOR RATES FROM INTERIOR GROUPS

Before going into detailed explanation of the bases for rates to western points from the Albany, Rochester, Syracuse, Scranton, Williamsport, Cumberland, and Lexington groups, it should be stated (and the student should make careful note of the fact) that the rates are not made strictly on the percentage basis for each percentage group of western destinations. The system

is not rigidly followed, as is the case with eastbound rates, but, according to the peculiar necessities of each commodity, exceptions are made in the shape of *minimum* rates, which means the blanketing of many percentage groups with the rate to a certain fartherdistant group.

The items in Table 20 are modeled on the announcement of the bases as made through the medium of circular letters of the associations of interested roads. For example, the bases for rates from Albany and Syracuse are given in Table 20 exactly as announced in Trunk Line Association Freight Committee Circular Letter No. A-424, dated January 23, 1903. But, when the offices of the same association announce the intention of the interested lines individually to issue tariffs that will establish a new or revised basis for rates on any commodity, such a basis is outlined as follows:

On bagging, burlap or gunny, in carloads,

From eastern points to western points,

- On a basis of 26.3 cents per 100 pounds, New York to Chieago, except that the minimum rates to Pittsburgh, Pa., 60 per cent points and higher, will be on a basis of 21 cents per 100 pounds from New York.
- From New York, Philadelphia, Baltimore, and common points, to Buffalo and Niagara Frontier, 19 cents per 100 pounds.

In this example the rate to the 80 per cent group, namely, 21 cents, is applied as minimum to all points east.

The lesson to be learned from the above is that to procure the rate from Albany, Rochester, or any of the so-called "interior" Trunk Line groupings to western points for actual application to a shipment, the tariffs must be consulted, for, while the rate from Albany might be on the basis of 80 per cent of the rate from New York, the latter rate (particularly to any point in percentage groups east of the 81 per cent group), with few exceptions, would not be found made on the basis of the grouping shown in Map 3, Atlas of Railway Traffic Maps.

The percentage system, as used in the construction of westbound commodity rates, may be likened to the frame upon which the rate fabric is woven—the design perhaps may be a bit fantastic—yet the system is the foundation or pattern for all.

Albany, N. Y., and Points Taking the Same Rates.— For Albany, N. Y., the commodity-rate adjustment is somewhat different from that employed in the construction of class rates, in that it is first necessary to construct the rates from Albany to Chicago and then to scale it in accordance with the percentage assigned to the point of destination involved.

Under this adjustment, if we desire to construct the rate on clay (24 cents, New York to Chicago) the Albany-Chicago rate would first be constructed by taking 80 per cent of the New York rate, thus obtaining 19.2 cents per hundred pounds as the result. If then a rate were desired to some point in the 80 per cent group, 80 per cent of this amount would be taken resulting in 15.36 cents, or 15.5 cents, which is the same as the rate established for that group as shown in the following excerpt, which indicates rates on a few of the selected commodities to various western group points.

L 1 M				4.4.4			and the second s	and the second se	The second se	Contraction of the local division of the loc
FROM ALBANY, N. Y. To Percentage Groups	Pig Lead	Brimstone	Clay	Woods of Value	Ammunition (Fixed)	Cordage	Ovsters	New Cotton Bags	Pig Iron(1	Old Car Axles(
60	12.5		13.5		20	17.5		8	3.10	\$3.20
70	12.5		15.5		20	20.5			3.20	3.40
80	14		15.5		20	23			3.60	3.60
90	16		17		22.5	26			4.10	4,20
100	17.5		19		25	29.5			4.60	4.80
110	19.5		21		27.5	32			5.10	5.30
120	21		23		30	35	. :		5.50	5.80

Rates in cents per 100 lbs, unless otherwise specified. ()Per ton of 2,240 lbs.

It will be noted from the foregoing that rates are not shown on brimstone, woods of value, oysters, and new cotton bags. It is necessary only to call attention to the fact that the first two commodities are not common to this locality, and while quantities may be imported through North Atlantic ports, there is no movement through Albany as an originating point. Consequently, no rates are shown in the tariff. Likewise, as far as oysters are concerned, this point is sufficiently removed from the sea coast to preclude (except possibly in rare instances) the movement of this commodity.

New Berlin, N. Y., and Points Taking the Same Rates.—Not much may be said with respect to this adjustment in addition to the information given in the table itself. The particular attention of the reader is directed to the difference existing in the basis as applied by one line as contrasted with another, indicating an exception to the general rule that competing interests usually maintain the same scale of rates in order to insure the equality of charges in so far as the respective systems are concerned. The presumption in this instance is, however, that as far as the line maintaining the higher rates is concerned, the disadvantage of its route is such that it cannot meet the rates of the more direct systems.

Ogdensburg, N. Y., and Points Taking the Same Rates.—What has been said with respect to the adjustment of rates from New Berlin, N. Y., applies with equal force to the rates from Ogdensburg, to shorthaul points, namely, 67 per cent to 77 per cent group points, inclusive. Rates from Ogdensburg must be established which are usually on the Boston basis but not higher than those that obtain from Ogdensburg to 78 per cent territory.

An interesting fact concerning this group is the

relatively small number of commodity rates that are established therefrom as compared with the long list of articles from all other eastern groups. Many of these commodities are forwarded from this one group alone, which fact is the probable explanation of the varied bases for making rates for each commodity or commodity group (the group consisting of all allied articles, such as clay, talc, algalite), being rated under a different system.

Rochester-Syracuse, N. Y., and Points Taking the Same Rates.—From Rochester and Syracuse, N. Y., and points taking the same rates to percentage points shown on Map 3, general commodity rates are established on the basis of 70 per cent of the rates from New York to Chicago and other 100 per cent points. To points other than those located in the 100 per cent group, rates are scaled on the established percentage of the rate from Rochester or Syracuse to Chicago, this adjustment therefore involving the application of the double percentage.

For example, taking the rate on cordage based on the New York rate to Chicago of 36 cents, 70 per cent yields 25.2 cents as the Rochester-Syracuse-Chicago rate; 117 per cent of this figure yields 29.485 cents, or 29.5 cents as the rate from Rochester-Syracuse to East St. Louis, a 117 per cent point.

The following gives the rates on some representative commodities from this group to selected western destinations:

FROM SYRACUSE, N. Y. To Percentage Groups	Pig Lead	Brimstone	Clay	Woods of	Ammunition (Fixed)	Cordage	()ysters	Cotton Bags	Pig Iron(1	Old Car Axles( <u>1</u>
67	11		13.5	• •	17.5	17		• •	\$2.70	\$2.80
77	12		13.5		17.5	19.5			3.10	3.20
87	13.5		15		18.5	22			3.50	-3.70
100	15.5		17		21.5	25	• •		4.00	-4.20
107	16.5		18		23	27	• •		4.30	-4.50
117	18		20		25	29.5		• •	4.70	-4.90

Rates in cents per 100 lbs. unless otherwise specified. (Per ton of 2,240 lbs.)

There are some exceptions in the application of the general basis, for example, the general basis is not observed on bulk salt to Chicago, the rate of 10.5 cents being established. This basis is not applied to other percentage points and is defended on the ground of water competition. It will be observed that both Rochester and Syracuse are in close proximity to Lake Ontario ports, and that it is possible for the interests located thereat to avail themselves of water competition in the event of excessive rail charges. This fact tends to keep the basis of rates from this group on a low plane, possibly somewhat lower than would obtain were it not for this advantage possessed by these points.

Philadelphia, Pa., and Points Taking the Same Rates.— As in class rates, commodity rates are established from Philadelphia, in most instances, by employing differentials which have been agreed upon by the interested carriers, and are lower than the rates currently in effect from New York and New York rate points. However, there are several commodities for which the same rates are made applicable from Philadelphia as are current from New York, namely; common-black blasting powder, wire rods, wire-barb, binding, and fencehay bands, etc. The class differential of the class rate which is the same as, or immediately higher than, the commodity rate is applied. For example, if a commodity rate from New York to Chicago is 26.3 cents, which is the same as the sixth-class rate, the rate from Philadelphia is 2 cents less or 24.3 cents. If the commodity rate is not the same as the class rate, the differential for the class rate next higher applies, that is, if a rate of 27 cents were established from New York to Chicago, this being slightly higher than the sixth-class rate, the fifth-class differential of 2 cents is applied, or stated another way, if a commodity rate of 59 cents were established from New York to Chicago, notwithstanding that the rates more nearly approximate the third-class rate, the second-class differential would be deducted.

Baltimore, Md., and Points Taking the Same Rates.— The exposition of the Philadelphia adjustment holds good with respect to the bases employed from Baltimore, with the exception that the differentials on the first class and the second class are 8 cents, and the lower classes 3 cents per one hundred pounds, in contrast with 6 cents and 2 cents from Philadelphia.

In the application of these differentials, it is necessary in all instances, to first construct the rate from New York to the desired percentage group, that is, the rate is not to be established from Philadelphia to Chicago, in the first instance and then scaled, but it is to be scaled from New York to the various percentage groups, and the differentials authorized deducted from the rates thus established.

Scranton, Pa., and Points Taking the Same Rates.— What was previously stated with regard to the establishment of rates from the Rochester-Syracuse group is true so far as the adjustment of rates from Scranton, Pa., is concerned, except that the base rate from Scranton to Chicago is established on the basis of 80 per cent of the New York-Chicago rate instead of the figure .mployed from Rochester and Syracuse.

From Williamsport, Pa., and Points Taking the Same Rates.—The general adjustment from this group to the 60 per cent group is that whatever rates may be established from Baltimore are applied from Williamsport. To percentage groups, other than the 60 per cent group, commodity rates are scaled on the basis of 77 per cent of the rates from New York to Chicago and other points in the 100 per cent group, observing the rates from Baltimore to the 60 per cent group as minimum.

Representative commodity rates from Williamsport, Pa., to western percentage groups are shown in the following tabulation:

FROM WILLIAMSPORT, PA. To Percentage Groups	Pig Lead	Brimstone	Clay	Woods of Value	Ammunition (Fixed)	Cordage	Oysters	Cotton Bags	Pig Iron ()	Old Car Axles 0
73	12.5	• •	15		22	20			\$3.20	\$3.40
79	13.5		15		22	21.5	<b>.</b>		3.50	3.60
88	15		16.5		22	24			3.90	4.00
100	17		18.5		24	27.5			4.40	4.60
120	20.5	• •	22	• •	29	33		• •	5.20	5.50

Rates in cents per 100 lbs. unless otherwise specified. ()Per ton of 2,240 lbs.

Cumberland, Md., and Points Taking the Same Rates.— In general, the rates from the Cumberland, Md., group are made the same as the Williamsport group with the exception that the minimum rates established from Baltimore to the 60 per cent group are observed only by the Pennsylvania Railroad and affiliated lines. Traffic moving from this group by the Baltimore & Ohio Railroad or lines other than the Pennsylvania System would not be subject to this requirement.

From Belington, W. Va., and Richwood, W. Va., and Points Taking the Same Rates.—In a very general way, the rates established on the commodity from this group are based on the Cumberland adjustment, that is, the rates from Cumberland are not exceeded except in special instances where peculiar circumstances, such as the length of haul involved, require a disregard of the Cumberland basis.

It will be observed that from this group to those short-haul points the length of the haul varies greatly, for example, the haul from Belington to Pittsburgh, a 60 per cent point, is materially less than from Belington to Eric, Pa.; and consequently, in many cases it will be found that to such points the basis has not been adhered to. There are, however, so many exceptions to this basis that it might well be said that the rates are established by the carriers arbitrarily to meet conditions as they find them, observing, in a general way, the Cumberland, Md., rates as maxima.

From Lexington, Va., and Points Taking the Same Rates.—Commodity rates from the Lexington, Va., group are on the same general basis as from Baltimore. That is, the rates from the Lexington group are made the same arbitraries under the New York rates as are the Baltimore rates, observing, however, in all cases, rates established from the Virginia Cities group to Pittsburgh as minimum rates.

From Virginia Cities and Points Taking the Same Rates.—The commodity rates from the Virginia Cities group (as indicated on Map 9) to percentage territory are the same as the rates from Baltimore to the same percentage group, except that the Virginia Cities groups are subject to varying minima, which minima rates are, as a rule, announced in connection with the information circular setting forth the base rate, the reason for which is the same as in connection with the class rate, namely, to equalize the competition of western gateways on traffic to and from points in southern territory.

## FOURTH SECTION VIOLATIONS

What has been said concerning the violation of the fourth section of the Act to Regulate Commerce by the class rates is true in a great measure as concerns the commodity-rate adjustment. However, much freight is carried via circuitous routes, in which case, the application of the fourth section of the Act is violated. Circuitous routes may offer better service than the direct route either at point of origin or at the points of destination, that is, the delivery at the point of origin or destination may be more advantageous to the shipping

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public than that of the direct line, from which it would appear to be an injustice to the shipper, who receives better service via the circuitous route, to force him to ship only via the direct route. For example, the circuitous route may have a spur by the side of the plant, whereas the direct route has none and it therefore cannot give the same service as the more indirect route.

The procedure employed has been to require the carriers to file with the Commission petitions citing the instances in which the fourth section of the Act is not adhered to, and to petition the Commission for relief from the provisions of this section of the Act. After due consideration, the Commission grants or denies the petitioner's request. It has, however, been quite liberal in this respect, and where lines have been thus handicapped, it has permitted them to meet the direct-line rate where the intermediate points have not been unduly prejudiced.

Although this practice is in direct violation of the fourth section of the Act to Regulate Commerce, the Commission has been given power to grant relief from the section where it is justified by special circumstances. This power of the Commission gives better service to the shipper and allows the carriers to retain traffic developed at considerable expense by means of special facilities, and it does not involve unjustifiable discrimination. The ruling of the Commission appears to be based on sound principles.

Many thousands of these petitions have been filed by the carriers throughout the country, and, as fast as possible, the Commission is passing upon the propriety of the practice. During the interim, as long as the rates involved are covered by petitions, the carriers are permitted to continue the practice of exacting higher charges from intermediate points than may be exacted
from more distant points. Unless, however, the rate is thus protected, the prohibition of the Act with respect to charging a greater sum must be observed, and complaints may be filed with the Interstate Commerce Commission alleging the unreasonableness of the custom.

The basis for both class and commodity rates from groups in Trunk Line and New England territories to percentage groups in the United States, having now been explained, we will take up in the following chapter the adjustment employed in the establishment of eastbound rates from percentage territory to Trunk Line and New England base points.

## TEST QUESTIONS

These questions are for the student to use in testing his knowledge of the assignment. The answers are not to be sent to the University.

When was the percentage system of rates inaugurated?
 What were the confusing elements in rate-making in this territory prior to the adoption of this system?

3. What is the prime factor used in determining the rates to points throughout the territory?

4. Illustrate the procedure employed in assigning a point to a percentage group.

5. Are the groupings the same on eastbound traffic as on westbound traffic?

6. What factors account for the irregularity of the percentage groups?

7. How does the Interstate Commerce Commission view the propriety of this adjustment?

8. Is the same formula applied between points in Trunk Line Territory, on the one hand, and points *east* of the Indiana-Illinois state line, on the other, as is applied between Trunk Line points and points *west* of the Indiana-Illinois state line?

9. What classes of service are available between New York and Chicago?

10. Considering time, which route should be selected for quick delivery?

11. What traffic can rail-and-lake routes solicit to advantage?

12. Are the eastbound rates on a commodity the same as the westbound rates on the same commodity in all cases?

13. Illustrate the construction of class rates from New York to Indianapolis, Ind.

14. What is the rule for the disposition of fractions?

15. How are the ratings applicable in connection with Rule 28 determined?

16. Does the westbound commodity-rate adjustment follow the class-rate adjustment closely?

17. Why are the greater number of commodity rates confined to apply from seaboard cities on the Atlantic Coast?

18. Distinguish between the terms "general authorization," and "specific authorization."

19. What is the intent of minimum rate provisions?

20. Illustrate the blanketing of rates.

21. What accounts for the low rates applicable between Buffalo and New York?

22. Enumerate the interior castern basing points.

23. What is meant by the expression "New York plus"?

24. How are the rates from Boston, Mass., to points in the 70 per cent group constructed, and does this method differ from the construction of rates from the same points to Cairo, Ill.?

25. Illustrate the construction of rates from Cumberland, Md., to Chicago.

26. Construct class rates from Albany, N. Y., to Toledo, Ohio.

27. Construct the fifth-class rate from New Berlin, N. Y., to Columbus, Ohio.

28. Construct the fifth-class rate from Ogdensburg, N. Y., to Indianapolis, Ind.

29. Construct the class rates from Syracuse, N. Y., to East St. Louis, Ill.

30. How are the rates from Baltimore to percentage territory adjusted with respect to the rates from Philadelphia?

31. What necessitates the special basis of rates obtaining to and from the Virginia Cities?

32. When a rate per ton is established on any commodity from New York to Chicago, what basis is employed in computing the rate upon such commodity from other points?

33. Illustrate the construction of commodity rates from Boston, Mass., to western destinations.

34. What is the basis for the construction of rates on burlap bagging from New York to western destinations?

35. How are the rates from New Berlin, N. Y., adjusted with respect to the rates from New York?

36. What minimum is observed in establishing the rates from Williamsport, Pa., and points taking the same rates, to western destinations?

37. Sum up the conditions affecting fourth section violations in this territory.

# CHAPTER XIII

#### ALL-RAIL RATES EASTBOUND

# CLASS RATES

A comparison of the groupings of Trunk Line and New England territories as shown on Maps 9 and 10 of the Atlas of Railway Traffic Maps, will disclose, in addition to the irregularity of the groupings, several more groups under the eastbound adjustment not shown on the map for westbound rates, the more important of which are the Rockland, Me., and Stanstead, Que., groups. However, this difference in the grouping does not always result in a difference in rates, since the rates from a great part of the percentage territory to both Rockland and Stanstead are made the same as the rates to Boston. From short-haul points, that is, from those on the eastern border of the percentage groups, owing to the exaction of minimum rates, which are made the same as interior percentage group points beyond, there is a difference in the rates established to the respective groups.

Until the general advance in freight rates in this territory was authorized, in 1914, there was, owing to a difference in the rule for the disposition of fractions, a difference in the rates *from* the percentage groups to New York as compared with the rates from New York to the same percentage groups.

In availing themselves of the increase sanctioned,

the carriers established a new rule for the disposition of fractions[®] and made it applicable on both east and westbound traffic, with the result that the rates, both east and westbound between New York and Chicago are the same. Consequently the rates shown in Table 17 usually apply also from the various percentage groups to New York although, as previously explained,[®] the outlines of the groups are not the same for both adjustments.

In Table 21 we have taken Chicago as a representative point of origin and have shown the rates applying therefrom to various eastern seaboard and interior basing points.

#### TABLE 21

Thous Owner on			RATES	IN CE	NTS PE	R 100	Pouni	os			
To	Classes										
	1	2	R25	3	R26	4	5	6	R28		
New York N. Y.	190	79	67	60	48	42	36	30	48.5		
Boston Mass.											
Rockland Me. }	97	85	72.5	65	52	46	39	32	52.5		
Stanstead Que.											
Philadelphia Pa.	88	77	65.5	58	46.5	40	34	28	46.5		
BaltimoreMd.	87	76	64.5	57	45.5	39	33	27	45.5		
AlbanyN.Y.	86.5	76	64.5	59.5	46	40.5	34.5	29	46.5		
UticaN. Y.	81	71	60.5	54	43	38	32.5	27	43.5		
SyracuseN. Y.	72	63	53.5	48	38.5	33.5	29	24	38.5		
RochesterN. Y. ]											
Mt. Morris. N. Y.	66.5	58.5	49.5	44.5	35.5	31	26.5	22	35.5		
Emporium Pa.											
CumberlandMd.	70	69	59 5	10	90 5	995	20	94	905		
Elkins W. Va.	13	05	09.0	40	99.9	00.0	29	<u>24</u>	90.9		
NorfolkVa.											
Richmond Va.	87	76	64.5	57	45.5	39	33	27	45.5		
LynchburgVa. j											

ALL-RAIL RATES FROM CHICAGO TO EASTERN BASE POINTS Governed by Official Classification

The rates to points other than New York are established in conformity with the basis set forth in Table 22, and to illustrate the working of these formulas, the individual items comprising the table will be taken up in their order.

①Part 1, page 22, footnote 1. ②Part 2, page 98.

# TABLE 22

BASIS FOR CONSTRUCTION OF EASTBOUND CLASS RATES FROM PERCENTAGE TERRITORY TO TRUNK LINE BASE POINTS

M	То	FROM	R _A C	TES C ENTS	R AF	BITE	ARIES POUNI	IN	
ľΤΕ	EASTERN	CENTAGE			Cla	sses			REMARKS
_	GROUPS	GROUPS	1	2	3	4	5	6	1
1	New York, N. Y.	100	90	79	60	42	36	30	Base scale
2	Boston, Mass.		$\frac{5}{7}$	$\frac{4}{6}$	3 5	3 4	$\frac{2\frac{1}{2}}{3}$	$\frac{2}{2}$	Higher than New York
3	Rock- land, Me.	60-120							Same as Boston, ob- serving Cleveland- Boston rates as minima
4	Stan- stead, Que.	60-120							Same as Boston, ob- serving Toledo- Boston rates as minima
5	Philadel- phia, Pa.		$\begin{array}{c} 6\\ 2 \end{array}$	$\frac{6}{2}$	$\frac{2}{2}$	$\frac{2}{2}$	$\frac{2}{2}$	$\left. egin{array}{c} 2 \ 2 \end{array}  ight angle$	Less than New York
6	Balti- more, Md.		$\frac{6}{3}$	$\frac{6}{3}$	3 3	3 3	3 3	$\left. \begin{array}{c} 3\\ 3\end{array} \right)$	Less than New York
7	Albany, N. Y.	$ \begin{array}{c} \textcircled{1}60 \begin{cases} a \\ b \\ c \\ 66\frac{1}{2} - 120 \end{array} $							85 92 New 100 York 96 rates
8	Utica, N. Y.	$ \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \end{array} \\  \end{array} \\  \end{array} \\  \begin{array}{c} \end{array} \\  \end{array} \\  \begin{array}{c} \end{array} \\  \begin{array}{c} \end{array} \\  \begin{array}{c} \end{array} \\  \begin{array}{c} \end{array} \\  \end{array} \\  \end{array} \\  \begin{array}{c} \end{array} \\  \end{array} \\  \end{array} \\  \end{array} \\  \end{array} \\  \begin{array}{c} \end{array} \\  \end{array} \\$							80 85 92 83 New York 87 rates 90 91
9	Syracuse, N. Y.	$\begin{array}{c} \textcircled{1.60} \begin{cases} a \\ b \\ c \\ \hline c \\ 66\frac{1}{2} \cdot 71 \\ 72 \cdot 78 \\ 79 \cdot 100 \\ Over \ 100 \\ \end{array}$							75 78 84 74 New York 76 rates 80 81
10	Roches- ter, N.Y. Mt. Mor- ris, N.Y.	①60 { a b c c @661 - 71 72-78 79-100 Over 100	$\frac{4}{4}$	3 3 3 3 3 3	2 2 2 2 2 2 2	2 2 2 2 2	1 1 1 1	1 1 1 1	55 % of New 62 York rates 72 but not 63 less than 68 arbitraries 74 over Buf- 76 falo rates

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cents.

## FREIGHT RATES-OFFICIAL TERRITORY

-									
WE	TO FROM EASTERN PER-		RA' C	FES O ENTS	R AI PER				
ITI	GROUPS	CENTAGE			Cla	REMARKS			
	GROOTS	GROUPS	1	2	3	4	5	6	
11	③Cum- berland, Md.	$\begin{array}{r} \textcircled{0}{2}60\\ 66\frac{1}{2}\text{-}71\\ 72\text{-}78\\ 79\text{-}120\\ \text{Over }120 \end{array}$			-				$\begin{array}{ c c c }\hline Arbitrary \ rates \\ \hline 74 \\ 76 \\ 76 \\ 76 \\ 76 \\ 76 \\ 76 \\ 76 \\$
12	Belington- Elkins, W. Va.	60-120	48.1	Cur but 40.8	nberl not 30.3	and r less t 20.9	ates han 17.8	14.6	-
13	(4) Virginia Cities and Stras- burg groups	60-120					1		567 Same rates as to Baltimore

#### TABLE 22—Continued

OVarying percentages are established from points in the 60 per cent group.
OCentral Freight Association legislation provides the following rates from points shown below, subject to the rates from same points of origin to Johnstown, Pa., as minima.

	4	5	6
3	4	5	6
32.5	24	17	13.5
	32.5	32.5 24	32.5 24 17

OThe rates to the Cumberland group may not be less than to the Johnstown group from the same percentage points in any case.
OThe Virginia Cities are Burkeville, Kilby, Lynchburg, Norfolk, Petersburg, Pinners Point, Richmond, Roanoke, and Suffolk. The stations grouped as the Strasburg group on Map 10 take the same rates as the Virginia Cities, but the Strasburg group on Map 10 take the same rates as the Virginia. The Virginia Cities is the latiffs. The Virginia Cities listed in this note.
OExcept that from points taking (1) less than 77 per cent of the Chicago-New York rates and (2) higher than 77 per cent of the Chicago-New York rates which are located on, and east of, the N. & W. Ry., Columbus, Ohio, to Steubenville, Ohio, inclusive, rates are not less than the rates from Columbus, Ohio, to Baltimore, Md.
OIn no case will the through rate exceed the published rate to Baltimore, Md., the arbitraries named must be added to the rate to Pittsburg negardless of the rates to Baltimore.

rate to Baltimore.

(Rates to Strasburg will in no case be less than rates to Richmond, Va. (The first-class arbitrary from Mercer, Pa., and Stoneboro, Pa., is four (4)

Item 1 of the above table shows the class rates from the 100 per cent territory (Chicago) to New York. This class scale is used as a basis for class rates from western percentage territory to eastern groups in Trunk Line and New England territories.

To many of the destinations, the rates from the 60 per cent group are varying percentages to be applied therefrom owing to the subdivision of this group. This adjustment, owing to its many ramifications, will be taken up in the last part of this treatise, and the present discussion of rate making confined to those groups taking 66½ per cent to 120 per cent, inclusive, of the base scale.

To Boston, Mass., and Boston Rate Points.—Contrary to the principle employed in establishing westbound rates from Boston, previously discussed, whereinto the greater part of percentage territory New York rates are applied from Boston, the rates from all points in percentage territory to Boston are made by the addition of fixed arbitraries. These figures are added to whatever rate is established from the percentage group in question to New York. Table 22 indicates that the rates from Chicago to Boston are the following arbitraries over the rates established to New York:

Classes			 	 			1	2	3	4	5	6
Rates	• • • •	• •	 	 		• •	7	6	õ	4	3	2

These are the figures indicated in item 2 of Table 22 for the 100 per cent group.

To Rockland, Me., and Points Taking the Same Rates.— The same formula that was applied in establishing the rates to Boston, is employed in establishing rates to Rockland, Me., and points basing thereon, with the proviso that in no event are the rates to be less than the rates established from Cleveland (a 71 per cent point) to Boston, Mass.

For example, 71 per cent of the Chicago-New York rates yields the following figures for the respective classes:

The addition of the Boston arbitraries indicated in item 2 of Table 22, results in the following through rates from the 71 per cent group to Boston:

Classes	1	2	3	4	5	6
Rates	71	62	47.5	34	28.5	23.5

As the rates established under the same principle from all groups taking less than 71 per cent of the Chicago-New York rates would be lower than these indicated, the 71 per cent Boston rates are held as minima from all points east. It will be noted that the haul to the Rockland group is, in all instances, much longer than the average haul to the Boston group, which accounts for the application of the minima.

Particularly as concerns the northern part of New England Territory freight traffic is very light, to say the least, the bulk of the tonnage being accounted for in movements of forest products which of necessity must carry low rates in order to encourage their movement, and the application of the minimum rates, so far as general merchandise traffic is concerned, in some measure offsets the expense incurred in affording this service. Consequently, many of the smaller lines and branch lines of trunk line systems as well, adjust their rates to points on such lines by the addition of fixed local rates to the base-point rate.

The Bangor & Aroostook Railroad, running in a northwesterly direction from Bangor through the State of Maine to St. John, Me., provides for the addition to the rates currently applicable to Rockland, Me. (Boston rate point) of rates on ascending scales, as the distance from the base point becomes greater, till, at St. John, the scale is as follows:

Classes ..... 1 0 3  $\overline{\mathbf{5}}$ 6 R25 R26 **R28** Rates ..... 49 43 38 32 2623 431.  $-38^{2}$ 382 Second-class rate, used arbitrarily for R25 traffic. Third-class rate, used arbitrarily.

This makes the first-class rate from Chicago to St. John \$1.46 and the sixth-class rate 55 cents for one hundred pounds, the rates to other stations on the line varying from 14 cents to 49 cents above the established rates to Boston on first-class freight and from 4.5 cents to 23 cents on sixth-class freight, the sixth-class arbitrary of 23 cents being almost as much as the rate on that class from Chicago to New York, the last-named rate being only 26.3 cents.

The eastbound rates from Central Freight Association Territory to northern Maine as affecting the theory that rates should be the same in both directions may appear unreasonable in comparison with the westbound rates. The westbound rates, however, were made the same as those from New York to enable the New England factories to compete with those of the New York group and to meet water competition from the New England ports. The same necessity for granting extremely low eastbound rates does not exist, since northern Maine, lying well east of New York, is sparsely settled and served by railways of light tonnage. The Rockland rates, plus the 49 cents on first-class freight, are probably not unreasonable on shipments from Central Freight Association Territory to St. John, a town in extreme northern Maine. The extraordinarily low westbound rates are made to hold the industries and the freight on the New England lines.

Industrial competition and water competition are important factors in forcing the low westbound rates.

The eastbound rates are reasonable while the westbound rates are abnormally low.

Commissioner Charles A. Prouty, of the Interstate Commerce Commission in the New England investigation, wrote the following paragraph concerning freight rates in New England Territory:

The long distance rates which New England enjoys are generally very favorable to that locality . . . rates upon the products of New England to markets of consumption in other parts of the country are unusually low. This is sometimes due to the voluntary acts of the carriers in order to put the manufacturer of New England upon a competitive basis with the near producing point of which paper is an illustration. The rate on that commodity from producing points in Maine to Chicago is 20 cents per 100 pounds for a haul of approximately 1,300 miles. Most of the low long distance rates from New England are, however, due to water competition. This is the case with those to the Pacific Coast and with those to interior territory contiguous to the Pacific Coast which is affected by that competition. This is also true of the great mass of rates into the southwest and even into the central west.

To Stanstead, Que., and Points Taking the Same Rates.—In constructing rates to points in this group and points basing thereon, the same general procedure is employed as in the Rockland adjustment, subject, however, as minimum rates, to those that may be established from Toledo (a 78 per cent point) to Boston, the class rate from the 78 per cent group to Boston, being as follows:

Classes	1	2	3	4	5	6
Rates	77	67.5	52	37	31	25.5

Philadelphia, Pa., Baltimore, Md., and Points Basing Thereon.—As is the case in the westbound adjustment, rates from percentage groups to Philadelphia and Baltimore are adjusted on a differential basis with regard to such rates as may be established to New York. The differentials themselves, however, are not on the same measure, being lower on both first and second classes, resulting from a compromise between the Philadelphia and Baltimore interests, on the one hand, and the New York interests, on the other.

In the application of these differentials, it will be noted that, except from 60 per cent points, the rates on all classes to Philadelphia are uniformly 2 cents under New York rates, while Baltimore, in turn, is 1 cent under Philadelphia, or 3 cents under New York.

Albany, N. Y., and Points Basing Thereon.—To the so-called "interior" base points, of which Albany, N. Y., is the first, there is a radical departure from the method employed in establishing westbound rates and in practically no instance will the rates be the same from and to the same percentage groups. For example, the fourth-class rate from Cincinnati to Albany is not the same as the fourth-class rate from Albany to Cincinnati.

Under the basis set forth in item 7, Table 22, where it is desired to construct the rates from Cincinnati, Ohio (an 87 per cent point) to Albany, N. Y., the rates from Cincinnati to New York would first be constructed by taking 87 per cent of the Chicago-New York rates, resulting in the following scale:

and then, in turn, taking 96 per cent of these figures, obtaining the following as a final result:

which are the rates from Cincinnati to Albany.

Utica, N. Y., and Points Basing Thereon.—The same principle is employed in the establishment of rates to Utica. From percentage groups, however, rates are not

blanketed to the same extent as in the Albany adjustment, but are fixed on increasing percentages which ascend conforming, in some degree, to the increase in the length of the haul involved. That is, while the rates from Youngstown (a  $66\frac{1}{2}$  per cent point) are made 83 per cent of the New York rates from that point, the rates from Cairo, Ill. (a 120 per cent point) are made 91 per cent of the New York rates from that point.

Under the application of the foregoing basis, the rates from Ft. Wayne, Ind. (a 90 per cent point) to Utica, are as follows:

Syracuse, N. Y., and Points Basing Thereon.—In this group, owing to the diminishing length of haul, the percentages applied from the various percentage groups are not as great as to the base groups (Albany and Utica) to the east.

Current rates made under this adjustment from Elyria, Ohio (a 76 per cent point) are as follows:

To Rochester, N. Y., Mt. Morris, N. Y., and Emporium, Pa., and Points' Basing Thereon.—This group takes in these three points for the reason that in the development of the eastbound billing instruction and the bases for rates, there was a lack of uniformity in designating the group, one line calling it the "Emporium Group," another the "Mt. Morris Group," and still others, the "Rochester Group," so in order to cover all of the groups, the individual names have been perpetuated. The territory involved, however, is that indicated on Map 10 in the Rochester grouping. It will be observed from this map that the group is separated from the percentage groups only by the margin marking the Buffalo group, and, as concerns short hauls, rates are to be made on an alternative basis, namely, a percentage adjustment or certain arbitraries over the Buffalo rates. That is, if the application of the percentage indicated in the table opposite the corresponding group yields a lower rate than obtains by adding the arbitraries indicated to the rates to Buffalo from the same point of origin, the latter basis is to govern.

For example, the rates from Youngstown, Ohio (a 661/2 per cent point) to New York, are as follows:

Classes		1	2	3	4	5	ß
Rates	•••••	60	52.5	40	28	24	20

and to Rochester, the rates are to be made under the percentage principle 63 per cent of these figures, which is as follows:

Classes	1	2	33	4	5	6
Rates	38	33	25	17.5	15	12.7

The rates from Youngstown to Buffalo are as follows:

Classes	1	2	3	4	5	6
nates	32	28	21	15	n	10

and the addition of the arbitraries indicated in item 10 of Table 22 to these rates, results in the following figures:

 Classes
 1
 2
 3
 4
 5
 6

 Rates
 35
 31
 23
 17
 12
 11

but as the percentage basis yields a higher rate, it is applied.

It might be said, in passing, that the arbitrary adjustment will apply only on very short hauls from points in the 60 per cent group to points in the Rochester-Mt. Morris group.

Cumberland, Md., and Points Basing Thereon.—In this adjustment we have a still different phase of ratemaking, in that from the short-haul group, 60 per cent specific rates, which are not made on a fixed basis, being adjusted with regard to the rates prevailing from more distantly located percentage points, have been arbitrarily established by the interested lines, and as the long-andshort-haul clause is observed, the rates so established do not exceed those from more distant points.

From the other groups, 66½ per cent and over, the rates are made from ascending percentages which are the same, as will be noted, as obtain in the Syracuse, N. Y., adjustment from the same groups, with the exception of points in groups over 100 per cent.

Current rates in effect from Lansing, Mich. (a 95 per cent group) to Cumberland, are as follows:

Classes	1	2	3	4	5	6
Rates	68.5	60	45.5	32.	27.5	23

Belington and Elkins, W. Va., and Points Basing Thereon.—The same formula is observed in constructing the rates to this group of stations as in the Cumberland adjustment, with the proviso that no rates are to be established which are less than the 48.1-cent scale indicated in item 12 of Table 22.

## CHAPTER XIV

#### ALL-RAIL RATES EASTBOUND-Continued

## COMMODITY RATES

As the class rates to eastern destinations are based upon the rates established to New York, so likewise are the commodity rates adjusted on a fixed relationship to such rates as may be established to New York, in so far as commodities which have a general authorization are concerned. These rates are applied from and to all points in the respective territories.

A comparison of the bases used in establishing class rates with those prevailing under the commodity adjustment indicates that, in many cases, they are identical, the same arbitraries or percentages being employed.

#### TABLE 23

GENERAL BASIS FOR COMMODITY RATES ON DOMESTIC SHIPMENTS FROM PERCENTAGE TERRITORY (MAP 4) TO EASTERN GROUPS IN TRUNK LINE AND NEW ENGLAND TERRITORIES (MAP 10)¹

ITEM	To EASTERN GROUPS	FROM PTR- CENTAGE POINTS	GENERAL BASIS FOR COMMODITIES
1	Boston, Mass.	60-122	<ol> <li>When a commodity rate to New York is the same as a class rate, the commodity rate to Boston will be made the same arbitrary over the New York commodity rate as is applied in determining the class rate to Loston (Table 22, item 2)</li> <li>When a commodity rate to New York is not the same as a class rate, the commodity rate to Bos- ton will be made the same arbi- trary over the New York commod- ity rate as is applied in determin- ing the next higher class rate to Boston (Table 22, item 2)²</li> </ol>

# TABLE 23—Continued

### GENERAL BASIS FOR COMMODITY RATES ON DOMESTIC SHIPMENTS FROM PERCENTAGE TERRITORY (MAP 4) TO EASTERN GROUPS IN TRUNK LINE AND NEW ENGLAND TERRITORIES (MAP 10)

TEM	To Eastern Groups	FROM PER- CENTAGE POINTS	BASIS FOR RATES IN CARLOADS
2	Rockland, Me.	60-120	Same as to Boston but not less than from Cleveland, Ohio, to Boston
3	Stanstead, Que.	60-120	Same as to Boston but not less than from Toledo. Ohio, to Boston
4	Philadelphia, Pa.	60-120	Two cents under New York rates
$\overline{5}$	Baltimore, Md.	60-120	Three cents under New York rates
6	Albany, N. Y.	60-120	<ol> <li>When a commodity rate authorized to one eastern point is also au- thorized as a basis to other east- ern points, the commodity rates to Albany will be made on the per- centage of the New York rates which govern the class rates to Albany (Table 22, item 7)</li> <li>When a commodity rate authorized to one eastern point is not spe- cifically authorized as a basis to other eastern points, no change will be made to Albany, except where necessary to conform to the long-and-short-haul clause of the Interstate Commerce Law</li> </ol>
7	Utica, N. Y.	60-120	Same rule as above, with use of percent- ages in item 8 of Table 22
8	Syracuse, N. Y.	60-120	Same rule as above, with use of per- centages in item 9 of Table 22 ³
9	Rochester-Mt. Morris, N. Y.	60-120	Same rule as above, except percentages, notes, and arbitraries of item 10, Table 22, apply ³
10	Cumberland, Md.	60	Specific rates not higher than from 66½ per cent points and not lower than to Johnstown
		$66\frac{1}{2}$ -120	Same basis as for class rates (Table 22, item 11) ⁴
11	Belington-Elkins, W. Va.	60-120	Same rates as to Cumberland, Md. ⁵
12	Virginia Cities	(6)	Baltimore rates But not less than from Columbus, Ohio, (77 per cent group) to Baltimore
	1	( [†] )	Baltimore rates

#### TABLE 23—Continued

Petition No. 1 for Relief from the Fourth Section of the Act to Regulate Commerce, filed by the agent of the Central Freight Association with the Interstate Commerce Commission, 1910; Pennsylvania Lines, Circular No. 10. "Example: If a commodity rate of 28 cents per 100 pounds is authorized from Chicago, III., to New York, N. Y., which is not a class rate (the next higher class rate to New York being 31.5 cents per 100 pounds fifth-class), the rate to Boston would be ascertained by using the fifth-class arbitrary, thus establishing the rate, Chicago to Boston, at 31 cents. "(1) When eastbound rates on any commodity are on a basis of less than 21 cents per 100 pounds from Chicago to New York, the minimum rates from all points in Central Freight Association territory, taking 66½ per cent, or higher, to the Rochester and Syracuse groups are the rates applicable from the same points to Baltimore, Md.; and the maximum rates are those appli-cable on the same commodities under the class rates. (2) When eastbound rates on any commodity are on a basis of 21 cents or higher per 100 pounds from Chicago to New York, the rates are scaled on the authorized percentages shown on Map 4, but the minimum rates from all points in Central Freight Association territory, taking 66½ per cent, or higher, to the Rochester and Syracuse groups are the Baltimore rates from all points in Central Freight Association territory, taking 66½ per cent, or higher, to the Rochester and Syracuse groups are the Baltimore rates from Chicago to New York, or 17½ cents from Chicago to Baltimore; and the maximum rates are those applicable on the same commodities under the class rates.

Classes		4	5	5	6
Cents per 100	pounds	L. C. L. 20.9	L. C. L. 17.8	C. L. 17.8	C. L. 14.6

⁶From percentage points specified in footnote 5 of Table 22. ⁷From percentage points other than those specified in footnote 5, Table 22.

As a prelude to the discussion of the various items comprising the foregoing table, it is appropriate to state that the proper differentials to add or deduct (where differential adjustments are authorized) may readily be determined by comparing the commodity rate from Chicago to New York with the class rate established from Chicago to New York. The general rule is, that when the commodity rate is not the same as the class rate, the differential for the next higher class is employed. Thus, if a commodity rate of 28 cents were established from Chicago to New York (this being only slightly higher than the sixth-class rate) the sixth-

class differential would not be used, but the differential for the fifth-class rate applied instead, as this is the next higher class.

Where, however, there are established commodity rates which are the same as class rates, the corresponding class differential is deducted, or, in other words, if a commodity rate were made which was the same as the second-class rate from Chicago to New York, the secondclass differential would be added or subtracted as provided in Table 23. To assist in the following discussion representative commodity rates from western points of origin to New York, N. Y., have been reproduced in Table .24.

To Boston, Mass., and Points Basing Thereon.—On domestic traffic, rates to Boston are made certain figures or arbitraries higher than the rates that obtain to New York.

In connection with the explanation of the relationship of freight rates that is given here and elsewhere throughout the treatises on freight rates, two points should be given special attention: (1) Careful note should always be made as to the exact provisions that are made for the construction of freight rates and (2) very accurate application of these provisions must always be made. This is particularly true in cases where the provisions are somewhat complicated.

For some purposes approximate figures are good enough, but in the construction of freight rates it is generally the case that the exact rate is what is wanted. A mistake of one cent or a fraction of a cent on a freight rate is often the difference between getting or losing business or between making or losing money on certain business.

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COMMODITY RATES IN CENTS PER 100 POUNDS (EXCEPT AS NOTED) FROM VARIOUS WESTERN POINTS OF ORIGIN TO THE NEW YORK GROUP

	IS	Bille	3.20	3.20	3.20	3.20	3.60	3.80	4.60	4.70	5.00	5.10	5.20	5.40	5.50	5.70	5.80	6.00	
	TUDI	i giq	3.10	3.10	3.10	3.10	3.50	3.70	4.40	4.50	4.80	4.90	5.00	5.20	5.30	5.50	5.50	5.75	
	horses	97iJ	44.5	44.5	44.5	49	49	52.5	56	57.5	62	63	64.5	66.5	68	70.5	71	74	
	treat	Dres	36.5	36.5	36.5	36.5	36.5	39	42	43	46	47	48	49.5	50.5	52.5	53	55	
	unəlo	Petro	20	20	20	20	23.5	23.5	25	25.5	27.5	61 80	28.5	29.5	30.5	31.5	31.5	53 53	
101	eattle	ЭліЛ	26.5	26.5	26.5	28.5	33.5	38.5	36	37	40	40.5	41.5	43	43.5	45	45.5	47.5	
	-1005 tq95re) (91d fire)	nom Clay	14.5	14.5	14.5	16	10	19	20.5	21	22.5	53	23.5	24.5	22	25.5	26	27	
	ទ្រនថ	şiq	12	12	12	13	15.5	15.5	16.5	17	18.5	18.5	19	20	20	21	21	22	
	eultural erone	irgA 9mil	11.5	11.5	11.5	12.5	12.5	15	16	16.5	17.5	18	18.5	19	19.5	20	20	21	
	<u>ب</u>	birð	14	14	14	15.5	15.5	16	19.5	20	21.5	21.5	22	23	23.5	24	24.5	25.5	
	uoillud o	Base	13	13	13	14.5	14.5	17	18	18.5	20	20.5	21	21.5 /	22	53	23	24	
	sinomms a	nby	14.5	14.5	14.5	16	16	19	20	20.5	22.5	22.5	53	24	24.5	25	25.5	26.5	on.
	OX	W	Dunkirk, N. Y.	True Dast, Pa.	D. L.F.I.e., 1'a.	Uil City, Pa.	Youngstown, Uhio	Cieveland, Uhio	Elyria, Ohio	Toledo, Unio	Adrian, Mich.	Bryan, Ohio	Tipton, Mich.	Fort Wayne, Ind	Kendallville, Ind.	Lansing, Mich.	La Porte, Ind	Chicago, 111.	aates in cents per gross to
	/	FRO	09	102	100	00	00	10	0	200	4 L	C N N	20	06	32	66	96	DOT	3

# ALL-RAIL RATES EASTBOUND

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It will be noted that the first item of Table 23 refers to Table 22, item 2 (or the class-rate adjustment) for the bases to apply in connection with the establishment of commodity rates to Boston. Accordingly, if a commodity rate of 21 cents were established from Chicago to New York, the rates on the same commodity to Boston, (if it had a general authorization) from Cincinnati, Ohio, would be made in the first instance by taking 87 per cent of 21 cents, producing 18.3 cents as the rate from that group to New York. As the 21-cent base rate is lower than the sixth-class rate, the sixth-class differential would be added to this rate, making a through rate of 20.3 cents from Cincinnati to Boston.

If, however, a commodity rate were established removing the application of, say, the normal third-class adjustment and establishing new rates on the basis of fourthclass rate, or 36.8 cents, the rates from the 60 per cent group would be made by taking 60 per cent of this figure, producing 22.1 cents as the rate to New York, and adding thereto the fourth-class differential of 3 cents as indicated in item 2 of Table 22.

To Rockland, Me., and Stanstead, Que.—The second item also outlines the basis for the construction of rates to Rockland, Me. It is necessary, however, in this particular adjustment, to maintain as minimum rates those established from Cleveland, Ohio (a 71 per cent point) to Boston, Mass. A similar requirement will be recalled in connection with the class-rate adjustment.

What has been said in connection with Rockland, Me., is true with regard to the establishment of rates to Stanstead, Que., with the modification that the minimum rates are to be not less than those made from Toledo, Ohio (a 78 per cent point) to Boston, Mass. For instance, if the rate on a commodity having a basis of 21 cents from Chicago to New York were desired from Cleveland, Ohio, to Stanstead, Que., the rate would first be computed from Cleveland to Boston, which would be done by taking 71 per cent of the Chicago-New York rate, resulting in a rate of 14.9 cents, to which would be added the Boston arbitrary, making a through rate of 16.9 cents. The rate from Toledo, Ohio, however, is 78 per cent of the Chicago-New York rate, or 16.4 cents, plus 2 cents, or 18.4 cents, and inasmuch as the Cleveland normal rate is less than this basis, it must be increased to the same figure as applies from the 78 per cent group.

The reason for this procedure was set forth, in general, in connection with the class-rate adjustment, and it is unnecessary to repeat it at this time.

To Philadelphia, Pa., and Baltimore, Md.—The construction of commodity rates to Philadelphia merely involves the subtraction of the differentials indicated in item 4 of Table 23 from the New York rates from the respective percentage group, and it is therefore subject to no complication.

To Baltimore, Md.—What was said with reference to the rates to Philadelphia is true with regard to the rates to Baltimore, Md. It may be noted that the rates to Baltimore will in all instances be one cent per hundred pounds less than the rates to Philadelphia, which, in turn, are 2 cents less than the rates to New York.

To Albany, N. Y.—To Albany, N. Y., on commodities which have a general authorization, or, in other words, which move from all points in percentage territory, the rates are established upon the same percentages as are used in connection with the establishment of class rates. Thus, if a commodity rate of 33 cents were established from Chicago to New York and the rates from East St. Louis, Ill. (a 117 per cent point) were desired, the East St. Louis-New York rate would be first established, which would be done by taking 117 per cent of the Chi-OTable 22, item 2.

cago rate, producing 38.61 cents, or, under the rule for the disposition of fractions, 38.6 cents per one hundred pounds. Item 7 of Table 22 (to which item 6 of Table 23 refers) indicates that, from the 117 per cent group to Albany, rates are to be made 96 per cent of the rate from the same group to New York, and, accordingly, 96 per cent of the East St. Louis-New York rate, 38.6 cents, gives 37.05 cents, or 37.1 cents as the East St. Louis-Albany rate.

As we have said in an earlier part of this treatise, frequently rates are authorized to apply only from specific points of origin, or, in other words, they have no general authorization, and in such cases rates are not established from any intermediate points except to remove such violations as may occur in so far as the long-andshort-haul clause in the Act to Regulate Commerce is concerned.

To Utica, N. Y.—Inasmuch as Albany is more distantly located and on the same line with Utica, it is only natural that the rates that are established to Albany influence in some degree the rates that are made to Utica. Consequently, the same rule with reference to authorized and non-authorized rates holds good with respect to this point. The establishment of rates under this basis involves the same procedure (with the substitution of the Utica percentages for the Albany per cent) as indicated in Table 22.

To Syracuse, N. Y.—The same also holds good with respect to the Syracuse adjustment of rates. The Illustration given in connection with the adjustment of rates to Albany, N. Y., should suffice for this point as well.

To Rochester and Mt. Morris, N. Y.—In so far as procedure is concerned, with respect to rates having a general authorization and those not, the same principles are applied to Rochester and Mt. Morris. These rates are also based upon the percentages for the making of class rates indicated in item 10 of Table 22. This adjustment, however, is qualified to the extent that the rates so obtained must not be less than the rates that are established from the same point of origin to Baltimore, Md., when the commodity is rated on the basis of less than 21 cents per one hundred pounds, from Chicago to New York, and that if the rates are on the basis of 21 cents or higher, the minimum rates are to be the Baltimore rates from the same point on the basis of 20½ cents per hundred pounds from Chicago to New York, or 17½ cents from Chicago to Baltimore.

To illustrate this, assume that a commodity rate of 19 cents per one hundred pounds were established from Chicago to New York and that the rate from Canton, Ohio (a 71 per cent point) to Rochester, N. Y., were desired. The rate from Canton to New York would first be constructed, which would be done by taking 71 per cent of the Chicago-New York rate, resulting in 13.49 cents, or 13.5 cents, as the rate from Canton to New York. The rate to Rochester is then made in conformity with item 10 of Table 22 by taking 63 per cent of this figure, giving 8.5 cents as the rate under the normal adjustment. However, inasmuch as the base rate is less than 21 cents, it is necessary to ascertain what the rate is from the 71 per cent group to Baltimore, in order that it may be determined whether the 8.5-cent rate is lower than the minimum rate. Inasmuch as item 5 of Table 23 states that Baltimore rates are made 3 cents less than the New York rates, it is readily discerned that the Baltimore rate in this case is 101/2 cents. Consequently, this figure would be applied instead of that obtained under the normal adjustment.

To illustrate the second part of the qualification, take a rate of 22.1 cents, which is higher than the 21-cent

rate marking the dividing line in this particular adjustment. Rates from Cleveland would be made in identically the same fashion as set forth in the preceding paragraph, and a rate of 9.9 cents from Cleveland to Rochester is obtained. This, however, is less than the Cleveland-Baltimore rate, which is made by deducting 3 cents from the Cleveland-New York rate, 14.6 cents, on the basis of 201/2 cents from Chicago to New York, or 11.6 cents. Consequently, the latter rate is applied.

To Cumberland, Md.—In the Cumberland, Md., adjustment from the 60 per cent group, we have not only minimum rates prescribed, but maximum rates as well. Consequently, rates are made that conform thereto, observing that they are not less than the rates to Johnstown, or that they do not exceed the rates that are established from the 661/2 per cent group to Cumberland.

From territory other than the 60 per cent group these rates are made on the same percentage of the Chicago-New York rate as applies in connection with the classrate adjustment, with the exceptions noted.

To Belington and Elkins, W. Va.—To Belington and Elkins, W. Va., the same basis as is applied in connection with the Cumberland, Md., adjustment is extended to these points, with the exceptions noted.

To Virginia Cities.—In the adjustment of rates to Virginia Cities there is, owing to the fact that the territory is served by direct lines such as the Baltimore & Ohio Railroad, the Norfolk and Western Railway, and the Chesapeake & Ohio Railway, a so-called "split basis" applied from certain competitive groups on, and adjacent to, the Ohio River. The dividing line of this grouping is the line of the Norfolk and Western Railway from Columbus, Ohio, through Circleville, Chillicothe, and Waverly to Portsmouth, Ohio, and from all of the groups east of this line, rates are established which must not be less than the rates from Columbus, Ohio (a 77 per cent point) to Baltimore, Md., the class rates under this adjustment being as follows:

On class traffic, or commodities, established on a class basis, these figures must be observed as minima rates from this territory. For commodity rates (except on livestock) the Columbus-to-Baltimore rates are the minima.

From destinations in groups north and west of this line Baltimore rates are applied.

# CHAPTER XV

#### ALL-RAIL RATES EASTBOUND-Continued

## Specific Commodity Adjustments

In the case of many commodities, the competition between carriers, between like commodities and between centers of production and consumption has become so keen that, coupled with the nature of the product, it has been found necessary to establish special rates and rate adjustments which digress, to some extent, from the percentage principle of rate construction as applied to classified traffic or general commodities.

As a general proposition, from the railroad traffic manager's standpoint, the rates should be, and usually are, established which will insure each division of the traffic yielding its proportion of the transportation expense and which at the same time will permit an unrestricted movement and the widest competition.

This has been called "making rates what the traffic will bear," and while this phrase has acquired some bad repute, there seems to be no term that so adequately fits the case. According to W. M. Ackworth, this phrase translated into railway language means this:

The total railway revenue is made up of rates which, in the case of traffic unable to bear a high rate, are so low as to cover hardly more than actual out-of-pocket expenses which, in the case of medium-class traffic, cover both out-of-pocket expenses and a proportionate part of the unapportioned cost and which finally, in the case of high class traffic, after covering that traffic's own out-of-pocket expenses, leaves a large and disproportionate surplus available as a contribution towards the unapportioned expense of the low-class traffic, which such traffic itself could not afford to bear. This, in principle and outline, is the system of charging what the traffic can bear. It is a system which (the point must be reiterated) is, always has been, and, as far as we can see, always must be, adopted on all railways whether they be state enterprises or private undertakings. It is a system to the interests of the public because traffic is thereby made possible which could not come into existence at all if each item of traffic was required to bear not only its own direct expenses but its full share of all the standing charges.

Stated in other words, if the rates applicable on grain, grain products, dairy products, live stock, and iron and steel and articles manufactured therefrom were adjusted on a simple distance scale, increasing in some relation as the distance increases, or if bulk and weight of articles were made the basis of charging, the rates thus obtained would become prohibitive and preclude the possibility of the movement and the marketing of these commodities from the more remote districts. A rate must be fixed for each commodity at which it will move. Rates on grain must be so adjusted as to insure to the farmer a return for his labors and to make the raising of grain attractive and still enable it to be traded and sold at primary markets in competition with grain from districts more advantageously situated. If the rate on agricultural products were the same per ton as the rate on cutlery, not a bushel of wheat would move any great distance by rail for export. This fact was recognized in the shipping industry long before railroads were thought of.¹

So we find that many of the commodities which according to their nature are highly competitive need low rates to influence their movement and that special commodity rates or rate adjustments have been established by the carriers in Official Classification and other classification territories.

²See Anthony Van Wagman's Government Ownership of Railways.

The construction of rates on grain and grain products, live stock and dressed meats, and iron and steel and articles manufactured therefrom will be taken up as representative of the construction of rates applicable on these specific commodities.

Grain and Grain Products.—In taking up this adjustment, it is appropriate to attempt some general definition of this term, and while there is some discrepancy in the existing list of articles taking these rates or assigned to these groups, the term "grain" is usually defined as follows:

Barley	Milo-Maize
Buckwheat	Oats
Corn	Rye
Corn, Kaffir	Speltz
Corn, Pop	Wheat

The term "grain products" is applied to the products of the above mentioned grains, or combinations thereof with each other, or with other foodstuffs of which grain is in the largest proportion, such as the following:

Avena	Farina	Grits	Sprouts. Malt
Barley, Sprouted	Feed, Oat	Hominy	Stareh
Bran	Feed, Wheat	Malt	Wheat, Craeked
Cerealine	Flakes, Brewers'	Middlings	Wheat. Crushed
Corn, Cracked	Flour	Oatmeal	Wheatboro
Cornmeal	Food, Algrain	Oats, Rolled	Wheatlet
Cream of Barley	Food, Ralston's	Postum Cereal	Wheat, Rolled
Cream of Wheat	Golden Harvest	Ship Stuff	
Farinose	Grape Nuts	Shorts	

Many tariffs also make a further division of this traffic by enumerating certain by-products of grain. It is stated that a bushel of wheat, for example, will yield but 40 pounds of flour and the refuse, after the grinding in the form of chaff, hulls, etc., has a much lower value than the product of the kernel of the grain and consequently needs rates that are somewhat less in order to enable it to move. These by-products are in many cases combined with other products and commodities in the preparation of stock food, and articles such as these comprise a greater percentage of the present by-products of grain. Representative items are as follows:

Bran, Flax	Feed, Glucose	Meal, Alfalfa
Bran, Riee	Feed, Gluten	Meal, Calf
Chaff, Rice	Feed, Mixed Live Stock	Meal, Cob
Cottonseed Hulls	Feed, Poultry or Pigeon	Meal, Gluten
Dextrine	Feed, Triangle-Calf	Screenings, Flax
Feed, Alfalfa	Flour, Foundry	Shives, Flax
Feed, Alfalmo	Grain, Brewers' Dried	
Feed, Flax	Grain, Distillers' Dried	

In other territories, it frequently happens that the by-products and grain products are grouped together under the grain products. However, in the Official Classification Territory, for some time the practice has been to make a distinction with respect to grain products and grain by-products.

For a number of years, the grain and grain products movement has exceeded one million tons per annum, a large proportion of which moves from or through Central Freight Association Territory to Trunk Line and New England territories both for domestic consumption and for export.

Within recent years, the lateral lines serving the gulf ports and tapping the wheat belt in the western states have, by the installation of immense warehouses and improved terminal facilities, succeeded in attracting a considerable portion of this business to their routes with the result that the present day basing rates from Central Freight Association Territory to New York are lower than the normal rates have been for years past.

To assist the reader in following the adjustment through, Map 15 has been incorporated in the Atlas of Railway Traffic Maps. This map shows the adjustment of rates on grain and grain products in effect at the present time. The group relationship formerly used in establishing rates from points west of the numbered groups has

been abandoned and rates from such points are constructed by the addition of specific arbitraries to the Chicago reshipping rate as hereinafter described.^(a)

So far as the territory lying east of the Indiana-Illinois state line is concerned, the rates shown in the various groups are those applicable on shipments of domestic grain from points within these groups to New York.

In establishing the rates from various points of origin the rates made from Chicago are used as a basing factor, and representative rates applying on grain and grain products are reproduced in Table 25.

### TABLE. 25

RATES IN CENTS PER 100 POUNDS ON GRAIN AND GRAIN PRODUCTS IN CARLOADS FROM GROUPS 1-15 (MAP 15) TO NEW YORK

TO NEW LORK	Export		Export	
FROM Domestic	net	Domestic	except flour	Export flour
Groups       A,       B,       C,       and         points       west       thereof.       24         Group       2       23         Group       3       23         Group       4       24         Group       3       23         Group       4       24         Group       4       24         Group       4       24         Group       5       23         Group       6       21.5         Group       6       21.5         Group       7       20.5         Group       8       20         Group       9       18.5         Group       9-A       20         Group       9-B       19.5         Group       10       18         Group       10       18         Group       12       16.5         Group       13       21         Group       14       20	Specific 22.5 21.5 22.5 0 21.5 20 19 18.5 17 18.5 18 16.5 16.5 15 19.5 18.5	Rates 24.5 23.5 24.5 0 23.5 22.5 21 20.5 19.5 20.5 18.5 18 17 21.5 20.5	$\begin{array}{c} 24.5\\ 23.5\\ 23.5\\ 24.5\\ \odot\\ 23.5\\ 22.5\\ 21\\ 20.5\\ 19.5\\ 20.5\\ 18.5\\ 18\\ 17\\ 21.5\\ 20.5\\ 20.5\\ \end{array}$	$\begin{array}{c} 23.5\\ 22.5\\ 22.5\\ 23.5\\ \odot\\ 22.5\\ 21.5\\ 20\\ 19.5\\ 19.5\\ 19.5\\ 19\\ 17.5\\ 17\\ 16\\ 20.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5\\ 19.5$

① Rates to New York City are based on percentages (named on Map 4) of the basing rates named in this section from group 1.

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In the above table, we have incorporated the rates from the various groups lying east of the Indiana-Illinois state line, having omitted those applying from groups west of it owing to the lack of any system that could be employed to give a general synopsis of rate construction from that territory.

From the more important points (as may be determined by applying the percentages indicated on Map 4) rates obtaining under the grain and grain-products adjustment are not widely different from those that would obtain were the percentage principle applied. For example the rates on domestic grain from Springfield, Ohio, to New York, N. Y., is 20 cents. The rate, if the regular basis of the 82 per cent of the Chicago to New York rate were applied, would be 20 cents.

Likewise, the rate on domestic grain from Columbus, Ohio, to New York is only 18.5 cents, while 77 per cent of the domestic grain rate of 24.5 from Chicago to New York is 18.86 cents which, under the rule for the disposition of fractions is construed as 19 cents. Thus, usually, we have a rate that is slightly lower than that obtaining under the application of the percentage principle, although in some instances the reverse condition might obtain.

The rate from Indianapolis, Ind., on grain to New York is 21.5 cents, while 93 per cent of the Chicago rate is 23 cents. The Indianapolis group in the grain adjustment, it may be observed, includes roughly both 90 and 93 percentage group points of the class-rate and commodityrate adjustments set forth on Map 4. Even 90 per cent of the Chicago rates, however, would be 22 cents.

Taking a few specific points west of the Indiana-Illinois state line, we find that the same principle has been applied. The rate from Peoria, Ill., is 28 cents, while 110 per cent of the Chicago rate is 27 cents. The

rate from Springfield is only 28 cents, while 113 per cent of the Chicago rate is 27.5 cents. The rate from Quincy, Ill., is 25.8 cents while 117 per cent of 24.5 cents is 28.5 cents. These examples indicate that the grain rates are not widely different from those that would obtain were they on the regular percentage basis. The examples also indicate that the rates are, as a rule, slightly lower than they would be if they were on the regular eastbound percentage basis applicable to class and general commodity traffic.

In general, the rates from points lying west of group 1 are made by the addition of arbitraries, usually called "specifics" to the reshipping rates applicable from Chicago to New York.

The reshipping rates on grain from Chicago to New York are 19.5 cents for domestic traffic and 18 cents for export traffic. The reshipping rates on grain products from Chicago to New York are 20 cents for domestic traffic, 20 cents for grain products (except flour) for export, and 19 cents for export flour. These reshipping rates from Chicago to New York plus the specifics above mentioned make the rates from the territory lying west of group 1 to eastern destinations.

The rates from groups, 1 to 15 to New York are not adjusted on a fixed basis but established individually by the carriers operating east of the Indiana-Illinois state line, the current rates closely approximating the regular percentage basis, observing as maximum rates, such rates as are established from the territory on and west of the Indiana-Illinois state line.

TO EASTERN BASE POINTS OTHER THAN NEW YORK

Having determined the proper rates to employ from the various groups of origin to New York, the rates to other eastern base points which are made with relation to those rates are now presented for consideration, the current basis being set forth in Table 26.

TAI	BLE	26	
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BASIS FOR RATES ON GRAIN AND GRAIN PRODUCTS FROM GROUPS ON MAP 15 TO EASTERN GROUPS

		and a second sec	
TEM	TO EASTERN GROUPS	FROM GROUPS ON MAP 15	BASIS FOR RATES IN CARLOADS 1
1	Boston, Mass.	All groups	Domestic, 2 cents over New York Export, same as New York
2	Rockland, Me.	All groups	Boston rates but not less than from Cleveland, Ohio, to Boston
3	Stanstead, Que.	All groups	Boston rates but not less than from Toledo, Ohio, to Boston
4	Philadelphia, Pa.	All groups	Cents under New York rates: do- mestic grain and grain products, also export grain products except flour, 2; export grain and flour, 1 ²
5	Baltimore, Md.	All groups	Cents under New York rates: do- mestic grain and grain products, also export grain products except flour, 3: export grain, 1½; flour,2 ²
(*	Alberry N. V	West of group 1	Specifics over rates from Chicago
0	Albany, N. 1.	1-15	96% of New York rates
7	Utica, N. Y.	West of group 1 4-A, 15 1-4, 5-8 9-A, 9-B, 13, 14 9, 10, 11 12	Specifics over rates from Chicago         91         90         87         83
8	Syracuse, N.Y.	West of group 1 4-A 1-4, 5-8 9-A, 9-B, 13-15 9, 10, 11 12	Specifics over rates from Chicago $ \begin{array}{c} 84\\ 80\\ 76\\ 74 \end{array} $ % of New York rates *
G	Rochester, N.Y.	West of group 1 4-A 1-4, 5-8 9-A, 9-B, 13-15 9, 10, 11 12	$\left.\begin{array}{c} \text{Specifies over rates from Chicago}\\ \hline 76\\ \hline 74\\ \hline 68\\ \hline 63\\ \hline \end{array}\right\}\% \text{ of New York rates}^{3}$
10	Cumberland, Md.	All groups	ent under Baltimore rates but not     less than rates to Johnstown
11	Belington, Elkins, W. Va.	All groups	Cumberland rates but not less than from Columbus, Ohio, to Cumber- land, subject to minimum rate of 10.8 cents per 100 pounds

## **TABLE 26**—Continued

BASIS FOR RATES ON GRAIN AND GRAIN PRODUCTS FROM GROUPS ON MAP 15 TO EASTERN GROUPS

ITEM	To Eastern Groups	From Groups on Map 15	GENERAL BASIS FOR COMMODITIES
12	Virginia	Points in footnote 5 Table 22	Baltimore rates but not less than from Columbus, Ohio, to Baltimore
	Cities	Other points	Baltimore rates •

¹The rates from groups on Map 15 to New York are shown in Table 25, and the basis for these rates is explained on pages 186-190. The sixth-class rate from groups on Map 4 to eastern points is the maximum. ² Except that from Buffalo. N. Y., Erie, Pa., and West Fairport, Ohio, to Baltimore and Philadelphia on ex-lake grain from differential territory for export rates should not exceed two-tenths of 1 cent per bushel on barley and cats, and three-tenths of 1 cent per bushel on wheat, corn, ³ Baltimore rates are the minima to Rochoster and Syracuse.

To Boston, Mass.-As reflecting the adjustment employed in establishing class and general commodity rates, it will be found that the rates on domestic traffic are 2 cents per one hundred pounds on both grain and grain products higher than the rates currently in effect from the same point of origin to New York.

On export traffic, however, the arbitrary is waived and the port of Boston is accorded the same rates as may be established to New York. This procedure places these points on an equality in so far as freight rates are concerned, and the additional haul required in reaching Boston is offset to some degree by slightly lower rates obtaining for ocean carriage applying therefrom.

Under the domestic adjustment, a rate from Indianapolis. Ind., would first be made by constructing the rate to New York as previously given, and to this rate would be added 2 cents, resulting in a through rate of 23.5 cents.

Rockland, Me., and Stanstead, Que.-Neither of these groups include any point on the seaboard through which traffic may be exported or imported. Consequently, the

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domestic adjustment of rates only is shown in the table, the basis being that such rates as are authorized to Boston are to be applied to Rockland and Stanstead, observing to Rockland such rates as may be established from Cleveland (a 71 per cent point), and to Stanstead such rates as may be established from Toledo (a 78 per cent point) to Boston, Mass., as minimum rates.

*Philadelphia*, *Pa.*—The export rates on grain and flour to Philadelphia are made 1 cent per 100 pounds under the rates on corresponding commodities from the same points of origin to New York. On domestic grain and grain products, also on export grain products except flour, the regular Philadelphia commodity differential of 2 cents under the New York rate is applied.

From percentage territory, this will result in lower rates to Philadelphia than to New York or Boston. These rates are designed to enable this city to attract a proportion of this important traffic and to offset the disadvantage possessed by Philadelphia because of its location with respect to ocean traffic.

Baltimore, Md.—From percentage territory to Baltimore, the export rates on grain are  $1\frac{1}{2}$  cents and on flour 2 cents per 100 pounds under the rates to New York from the same points of origin. Rates on domestic grain and grain products, also export grain products except flour, are the usual Baltimore differential of 3 cents per 100 pounds under the New York rates.

Albany, N. Y.—From the territory lying west of group 1, the rates to Albany are adjusted by the addition of specifics as established from the various points of origin to the reshipping rates which apply from Chicago.

The rates from the other numbered groups are on the basis of 96 per cent of the current New York rate from the same point of origin.

Utica, N. Y.—From territory lying west of group 1, the rates to the Utica group are specifics over the reshipping rates which apply from Chicago.

From territory comprised in the numbered groups, varying percentages of the New York rates are authorized. From groups 4-A and 15, rates are to be made 91 per cent of the New York rates, and from other points as indicated in item 7 of Table 26, the rates are 90, 87, and 83 per cent of the New York rates.

Syracuse, N. Y.—From territory lying west of group 1 to Syracuse, N. Y., the rates are specifics over the reshipping rates which apply from Chicago.

From the numbered groups, the rates to the Syracuse group are the percentages indicated in item 8 of Table 26 of such rates as may be established from those groups to New York.

Rochester, N. Y.—From territory lying west of group 1 to the Rochester group, the rates are made in the same manner as to the foregoing groups from the same points of origin, namely, by the addition of specifics to the Chicago reshipping rates.

From the numbered groups, the rates are the percentages indicated in item 9 of Table 26 of the New York rates from the same point of origin, observing the Pittsburgh-Baltimore rates as minima and the Baltimore rates as maxima when such rates exceed the Pittsburgh-Baltimore rates.

Grafton, Connellsville, and Johnstown, Pa.—The rates to these points are made by the addition of arbitraries to such rates as are established to Pittsburgh, observing the requirements as to minimum rates. This adjustment is more fully dealt with, however, in Chapter XXII, and a detailed discussion of the adjustment of rates on grain and grain products will be found therein.

Cumberland, Md.—The rates to Cumberland, Md., are made  $\frac{1}{2}$  cent per 100 pounds less than the rate established to Baltimore from the same point of origin observing as minimum rates such rates as are established from the same point of origin to Johnstown, Pa.

Belington-Elkins, W. Va.—To the Belington and Elkins group, the rates are the same as from the same points of origin to the Cumberland group, observing the rates established from Columbus, Ohio (a 77 per cent point) to the Cumberland group as minimum subject to a further minimum requirement that no rate is to be less than 10.8 cents per 100 pounds.

Virginia Cities.—The rates to the Virginia Cities from points east of a line described in footnote 5 of Table 22 are the same as the rates from the same points to Baltimore, except that in no case are they to be less than the rates established from Columbus, Ohio (a 77 per cent point) to Baltimore. From other points in percentage territory, the rates are the same as to Baltimore without regard to the minimum.

The foregoing includes the general adjustment of rates on grain and grain products but, before disposing of the subject, it is well to consider some of the reshipping rates that are established from the primary western grain markets, among which Chicago, Peoria, and St. Louis loom prominently.

# RESHIPPING RATES

It will be recalled that the Chicago reshipping rates, previously given, plus certain specific rates, make the rates from points in the territory lying west of group 1. The reshipping rates from East St. Louis, Ill. (Table 27) are uniformly 3 cents over the reshipping rates from Chicago to New York while the reshipping rates from Peoria are  $1\frac{1}{2}$  cents per 100 pounds over the Chicago reshipping rates.

There are also reshipping rates applicable on ex-lake grain, that is, grain arriving at these lake ports from the west and northwest by vessel, for example, from Buffalo, N. Y., and Toledo, Ohio. The Toledo rates are to Buffalo reshipping rates as 78 is to 60 or 130 per cent of the Buffalo rate.

The Chicago reshipping rates apply from all stations within the city limits and from Chicago district stopover points on shipments originating at points west of the west bank of the Mississippi River and at all points north of the Illinois-Wisconsin state line and west and north of Lake Michigan from which through rates are not in effect.

#### TABLE 27

Reshipping Rates in Cents per 100 Pounds on Grain and Grain Products in Carloads from Chicago, Peoria, and East St. Louis to New York

	Gr	AIN	GRAIN PRODUCTS				
To New York FROM	Domestic	Export net	Domestic	Export except flour	Export flour		
Chicago	19.5	18	20	20	19		
Peoria	21	19.5	20	. 20	19		
East St. Louis	22.5	21	23	23	22		

The reshipping rates named from East St. Louis are published from East St. Louis, Ill., St. Louis, Mo., Hannibal, Mo., and Louisiana, Mo., and apply on shipments from all originating points beyond, from which through rates are not in effect. The reshipping rates from Peoria apply from that point, also from Pekin, Ill., on shipments originating at points west of the west bank of the Mississippi River and also at points north of the Illinois-Wisconsin state line and west and north of Lake Michigan, from which no through rates are in effect. On grain and grain products from points west of the west bank of the Mississippi River and located north and west of a line drawn via the Chicago, Milwaukee & St. Paul Railway, via Sabula, Ia., to Tama, Ia., and thence via the Chicago and North Western Railway to Council Bluffs, Ia., the rates via Peoria to points east of the western termini of the eastern trunk lines are the same as current via Chicago on the basis of the local rates to Chicago plus the reshipping rates therefrom.

On shipments from the northwest to eastern groups, the through rates via the west bank of Lake Michigan ports, Mackinaw City, and Manistique, Mich., are the same as via Chicago. The reshipping rates from Milwaukee, Kewaunee, Manitowoc, and Marinette, Wis., and Menominee and Mackinaw City, Mich., on shipments forwarded via routes across Lake Michigan are the same as from Chicago.

From Manistique, Mich., the reshipping rates are 1 cent in excess of the rates from Chicago. The reshipping rates published on grain and grain products from Milwaukee, Wis., via routes across Lake Michigan, apply also via Chicago or via Chicago Junctions. The same arbitraries and percentages apply to the eastern groups on all through rates on grain and grain products, that is, the arbitraries and percentages shown in Table 26 apply on rates from groups on Map 15 and also on through rates from points west of these groups.

The purpose that these reshipping rates are designed to serve (and they serve it well) is to equalize through rates from points beyond, and to enable the grain to be

stopped in transit at some convenient point where it is milled and the product reforwarded at a reasonable through rate, which is materially less than the rate that would be applied were a combination of full local rates to and from the milling points exacted.



TABLE 28 BASIS FOR CONSTRUCTION OF RATES FROM 60 PER CENT TERRITORY TO EASTERN BASING POINTS

PROM	Group I Dunkirk, N. Y.	Group 2 Erie, Pa.	Group 3 North East, Pa.	Group 4 Oil City, Pa.	Group 5 Clarion, Pa.	Group 6 Waterson, Pa.	Group 7 Holden, Pa.
	Classes	Classes	Classes	Classes	Classes	Classes	Classes
To	1 2 3 4 5 6	1 2 3 4 5 6	1 2 3 4 5 6	1 2 3 4 5 6	1 2 3 4 5 6	1 2 3 4 5 6	1 2 3 4 0 0
Boston, Mass.	5 4 3 3 2½ 2 over New York	5 4 3 3 2½ 2 over New York	5 4 3 3 2½ 2 over New York	5 4 3 3 [.] 2 ¹ / ₂ 2 over New York	5 4 3 3 2.5 2 over New York	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	5 4 3 3 2½ 2 over New York ¹
New York, N. Y.	60% • of Chicago-New York	60% of Chicago-New York	60% of Chicago-New York	60% of Chicago-New York	7.4 7.4 7.4 6.3 5.3 4.2 higher than Oil City	7.4 7.4 6.8 5.8 4.7 3.2 higher than Oil City	6.3 6.3 6.3 5.3 4.2 3.2 higher than On City ¹
Philadelphia, Pa.	16 6 2 2 2 2 less than to New York	6 6 2 2 2 2 less than to New York	² 6 6 2 2 2 2 less than to New York ³	6 6 2 2 2 2 less than to New York	6 6 2 2 2 2 less than to New York ¹	$\begin{array}{ccccccc} 6 & 6 & 2 & 2 & 2 & 2 \\ less than to New York^{1} \end{array}$	6 6 2 2 2 2 less than to New York
Baltimore, Md.	¹⁶ 6 2 2 2 2 less than to New York	¹⁸ 8 3 3 3 3 ²⁶ 6 2 2 2 2 less than to New York	² 6 6 2 2 2 2 less than to New York ¹	8 8 3 3 3 3 less than to New York	8 8 3 3 3 3 less than to New York ¹	8 8 3 3 3 3 less than to New York ¹	8 8 3 3 3 3 less than to New York
Albany, N. Y.	85% of Dunkirk-New York	92% of Erie, PaNew York, N. Y.	92% North East, PaNew York, N. Y.	92% of Oil City, Pa., New York N. Y.	100% of Clarion, Pa., New York, N. Y. ¹	100% of Waterson, Pa., New York, N. Y.	100% of Holden, Pa New York, N. Y. ¹
Utica, N. Y.	80% of Dunkirk-New York	80% of Erie, PaNew York, N. Y.	80% of North East, PaNew York, N. Y.	85% of Oil City, Pa., New York, N. Y.	Arbitrary rates 56.5 50 42.5 30 25.5 21	Arbitrary rates	Arbitrary rates
Syracuse, N. Y.	75% of Dunkirk-New York	75% of Erie, PaNew York, N. Y.	75% of North East, PaNew York, N. Y.	78% of Oil City, Pa., New York, N. Y.	Arbitrary rates	Arbitrary rates	Arbitrary rates
Rochester, N. Y.	455% of Dunkirk-New York	62% of Erie-New York, N. Y. ⁵	62% of North East, PaNew York, N. Y. ⁵	4 3 2 2 1.7 1.4 higher than to Buffalo	Arbitrary rates	Arbitrary rates	Arbitrary rates
Emporium, Pa.	'60% of Dunkirk-New York	⁶ 62% of Erie-New York, N. Y. ⁵	62% of North East, PaNew York, N. Y. ⁵	4 3 2 2 1.7 1.4 higher than to Buffalo	Arbitrary rates	Arbitrary rates	Arbitrary rates

¹ When routed via B. & O. R. R. or Wn. Md. Ry. the scale is as follows: Classes. 1 2 R25 3 R26 R28 4 5 6 Rates ..50.4 43.4 36.9 32.9 26.3 26.1 22.5 18.9 15.5
⁵ Except via B. & O. R. R. or Wn. Md. Ry.
⁶ When routed via B. & O. R. R. or Wn. Md. Ry. the scale is as follows: Classes... 1 2 R25 3 R26 R28 4 5 6 Rates ...49.4 42.4 36 31.9 25.5 25.1 21.5 17.9 14.5
⁶ When delivery is made via B. & O. or Wn. Md. Ry.
⁶ But not less than 4-3-2-2-1-1 above rates from same points to Buffalo, N. Y., unless the addition of such arbitraries makes higher rates from origin points than from points beyond (West) or higher rates to Rochester, etc., than to points east, in which event the arbitraries shall be reduced to such an extent as not to cause higher rates from or to such intermediate points than from or to points beyond.
⁶ 62% works on Classes 1-2-5-6. Arbitrary on Classes 3-4.

# CHAPTER XVI

#### ALL-RAIL RATES EASTBOUND-Continued

# SPECIFIC COMMODITY ADJUSTMENT—Continued

# (a) Adjustment from the 60 Per Cent Group

From Table 22 it will be observed that under the bases for rate construction as concerned with the 60 per cent group, varying percentages are indicated to apply therefrom. This is occasioned by the fact that via some of the more indirect routes and from some of the more distantly located points in the groups exceptions have been taken from the use of the lowest adjustment of rates applying therefrom and via such routes and from such points a somewhat higher basis has been established.

It is not desirable in a treatise of this character to exemplify the many specific adjustments that are established by the carriers from points in this group. One may be taken as representative of the others.

For this purpose, the author has selected stations lying west of Buffalo to Erie, Pa., inclusive, on the line of the New York Central Railroad, formerly the Lake Shore & Michigan Southern Railroad, also the division taking in Oil City, Pa., and stations on the Lake Erie, Franklin & Clarion Railroad. The stations on the latter line are assigned to the Clarion, Pa., group, the Waterson, Pa., group, and the Holden, Pa., group.

The subdivision of this group, in so far as this par-

ticular territory is concerned, takes among others the following stations, which are the most important:

STATION	GROUP	STATION	GROUP
Broeton, N. Y	. 1	Irvineton, Pa	. 2
Butler, Pa.	. 2	Jamestown, N. Y	. 1
Clarion. Pa	. 5	Mayville, N. Y	. 1
Corry, Pa	. 2	Meadville, Pa	. 4
Dayton, N. Y	1	North East, Pa	. 3
Dunkirk, N. Y.	. 1	Oil City, Pa	. 4
Erie, Pa	. 2	Orient, Pa	. 2
Falconer Junction	. 1	Titusville, Pa	. 4
Franklin, Pa.	. 4	Union City, Pa	. 2
Holden, Pa	. 7	Waterson, Pa	. 6
Westfield, N.	Y	1	

In Table 28 is set forth the current bases applied in establishing the rates from points in this subdivision to the principal eastern seaboard and interior base points.

In the application of these formulas it is necessary that the rates from the various base points to New York be kept in mind, as the rates 'to other eastern destinations are made with respect thereto. The first item of the table, for example, indicates that the rates to Boston are (in the case of each point of origin) the same differentials over New York rates. The rates from Dunkirk to Boston would be made by first taking 60 per cent of the Chicago-New York rates, obtaining the following:

to which the arbitraries are added, resulting in the following scale:

This does not mean that the rates from all points of origin to Boston are the same, for, under the formula for the construction of rates from the Clarion group, it will be found that the rates from Oil City to New York (which are made 60 per cent of the Chicago-New York rates) are used and certain arbitraries are added thereto; this results in the following scale:

The addition of the Boston arbitraries makes the scale from Clarion to that point as follows:

To Rockland, Me., and Stanstead, Que., the same minimum rates are observed as from other percentage groups, namely, the rates from 71 per cent points to Boston are held as minima to Rockland, and the rates from 78 per cent points to Boston are applied to Stanstead.

Philadelphia, Pa., Baltimore, Md., and Points Basing Thereon.—In each instance, Philadelphia and Baltimore are conceded differentials under such rates as are established to New York. These differentials, however, are not always the same, as will be observed by comparing those applying in connection with Dunkirk and North East, Pa., where Baltimore takes the same differentials as Philadelphia, these stations thus being put on a parity in so far as transportation rates from these points are concerned. Note should be made of the exception of the route via the Baltimore & Ohio Railroad or the Western Maryland Railway. This route requires a higher scale of rates, as is shown in the tables.

To Albany and Points Basing Thereon.—In constructing these and the rates to interior base points subsequently discussed, the application of the double percentage is involved, as follows: (1) the ascertainment of the rate to New York and (2) the application of the authorized percentage of the New York rate indicated

in the table. These percentages vary, as will be noted; that obtaining in the Dunkirk, N. Y., adjustment is 85 per cent, that in the Erie, Pa., adjustment 92 per cent, and that in the Clarion, Pa., adjustment 100 per cent.

As an example, were it desired to construct the rates from Erie, Pa., to Albany, it would be necessary in the first instance to construct the rates from Erie, Pa., to New York. Item 2 of Table 28 indicates that these rates are made on the basis of 60 per cent of the Chicago-New York rates which are as follows:

and 92 per cent of these figures, would produce the following:

These are the rates currently in effect from Erie and Erie rate points to Albany and Albany rate points.

From Clarion, Waterson, and Holden, the rates to Albany are made the same as the rates obtaining from those points of origin to New York.

To Syracuse and Points Basing Thereon.—So far as main line groups are concerned, the rates to Syracuse are made under the same principle as employed in the construction of rates to Albany, the percentage employed being somewhat less than that used in making rates to Albany.

From Clarion, Waterson, and Holden, there is no fixed basis to be used in establishing rates. Such rates as are published are made by the individual lines, observing as maximum the rates applying from and to more distant groups.

To Rochester, N. Y., Emporium, Pa., and Points Basing Thereon.—In this case, as in the adjustment from percentage groups west, the rates from the 60 per cent group are established on either a percentage basis or on an arbitrary basis, using the rate to Buffalo as a factor, retaining the highest rate.

Taking Erie, Pa., as a representative point of origin, the rates to New York which are 60 per cent of the Chicago-New York rates, are as follows:

Classes	1	<u>0</u>	3	-1	5	6
Rates	.14	47.5	36	25	21.5	18

and 62 per cent of this scale would be as follows:

Classes	1	2	3	4	5	6
Rates	33.5	29.5	22.5	20	13.5	11

The rates from Erie to Buffalo are as follows:

Classes	 1	2	3	4	5	6
Rates	 33.5	28.5	22.5	17	11.5	9.5

The addition of the arbitraries indicated in the basis, results in the following combination:

 Classes
  $\ddots$  1
 2
 3
 4
 5
 6

 Rates
  $\cdots$  37.5
 31.5 24.5 19
 12.5 10.5

It will be observed that on the Buffalo combination, Classes 2, 4, 5, and 6, are less than under the percentage adjustment. For Class 3, however, rates based on the combination are higher. The result is that a compromise scale is effected by retaining the highest rates obtained under the respective formulas, which produces the following scale to be applied from Eric, Pa., to the Rochester group:

Classes	1	2	3	4	5	6
Rates	33.5	31.5	24.5	20	13.5	11

In some cases, the scale of class rates to Buffalo, used as a factor in constructing the rates to Rochester, is not the same as the scale of class rates which applies from

point of origin to Buffalo, proper. For example, the class rates applicable from North East, Pa., to Buffalo, proper, are as follows:

Classes	1	2	3	-4	5	6
Rates	31.5	27	21	16	11	9

At the same time, and in the tariff which contains the class rates published to Rochester, N. Y., a different scale of rates is named to Buffalo, for example, as to North East, the scale is that shown in Table 29. The application of this latter scale is taken care of in the tariff by a note which provides that it is to be used only for basing purposes in connection with points taking arbitraries higher (as is the case with Rochester).

For the purpose of illustration, to enable those who so desire to work out the individual rates to the various points of origin, current rates published from several of the base points to various eastern destinations have been reproduced in Table 29.

TABLE.	29
--------	----

CONSTRUCTION OF RATES FROM 60 PER CENT TERRITORY TO EASTERN BASING POINTS

FROM		RATES IN CENTS PER 100 POUNDS										
FROM	То	Classes										
		1	2	R25	3	R26	R28	4	5	6		
Group 1 Dunkirk, N. Y.	Boston, Mass New York, N. Y. Philadelphia.Pa. ¹ Baltimore, Md. ² . J Albany, N. Y Syraeuse, N. Y Rochester, N. Y Emporium, Pa Cumberland, Md Putfele, N. Y.	$59 \\ 54 \\ 48 \\ 46 \\ 43 \\ 40.5 \\ 29.5 \\ 32.5 \\ 53 \\ 48.5 \\ 26 \\ 5$	$51.5 \\ 47.5 \\ 41.5 \\ 38 \\ 35.5 \\ 26 \\ 28.5 \\ 46.5 \\ 41 \\ 22 \\ 5 \end{bmatrix}$	44 40.5 33.5 34.5 32 30.5 22 24.5 39.5 35 19	39 36 34 29 27 20 21.5 35 32.5 18	31 29 27 24.5 23 22 16 17.5 28 26 14 5	32 29 27 24.5 23 22 16 17.5 28 27.5	28 25 23 21.5 20 19 14 15 24 24.5 13 5	24 21.5 19.5 18.5 17 16 12 13 20.5 17 9.5	20 18 16 15.5 16 13.5 10 11 17 13.5 7.5		

# ALL-RAIL RATES EASTBOUND

# TABLE 29-Continued

# Construction of Rates from 60 Per Cent Territory to Eastern Basing Points

			RATES	IN (	Cents	S PER	100	Poun	DS	
FROM	To				Cla	isses				
1 110.51		1	2 I	225	() ()	R26	R28	4	5	6
	Boston, Mass.	59	51.5	-14	39	31	32	28	24	20
	New York, N. Y.	54	47.5	40.5	36	29	29	25	21.5	18
	Philadelphia, Pa. }	48	41.5	33.5	34	27	27	23	19.5	16
	Baltimore, Md. ³⁴ )	40.5	12.5	37.5	33	26.5	26.5	25	20	16.5
Channe 9	Iltica N V	43	38	32	29	23	23	20	17	16
Erie Pa	Svracuse, N. Y	40.5	35.5	30.5	27	22	22	19	16	13.5
12110, 1 00	Rochester, N. Y. }	33.5	29.5	25	22.5	18	18	15.5	13.5	11
	Emporium, Pa)	46	20.5	20 5	33	26.5	26	22	18.5	15
	Cumberland, Ma	40	38.5	32.5	30	24	25	22.5	16	12.5
	Buffalo, N. Y	33.5	28.5	24	22.5	18	19	17	11.5	9.5
	Boston, Mass.	59	51.5	44	39	31	32	28	24	20
	New York, N. Y.	54	47.5	40.5	36	29	29	25	21.5	18
	Philadelphia, Pa.1	48	41.5	35.5	34	27	27	23	19.5	16
0	Albany N V	49.5	43.5	37.5	33	26.5	26.5	25	20	16.5
North	Utica, N. Y.	43	38	32	29	23	23	20	17	16
East.	Syracuse, N. Y	40.5	35.5	30.5	27	20	20	19	16	12.5
Pa.	Rochester, N. Y. ]	33.5	29.5	25	22.5	18	18	15.5	13.5	11
	Emporium, Pa )	53	46.5	39.5	35	28	28	24	20.5	17
	Pittshurgh, Pa.	48.5	41	35	32.5	26	27.5	24.5	17	13.5
	Buffalo, N. Y	31.5	27	19	21	14.5	15	16	11	9
	Boston, Mass	59	51.5	44	39	31	32	28	24	20
	New York, N. Y	54	47.5	40.5	36	29	29	25	21.5	18
	Philadelphia, Pa	48	41.5	35.5	34	27	27	23	19.0	16
	Baltimore, Md	40	- 39.0 - 42.5	- 33.9 - 27 5	33	26.5	26.5	25	20	16.5
Group 4	Hitiga N V	45.5	40.5	34.5	30.5	24.5	24.5	$\overline{21}$	18.5	15.5
Oil City,	Syracuse, N. Y	42	37	31.5	28	22.5	22.5	19.5	17	14
Pa.	Rochester, N. Y. }	39	33	28	26	21	22	19.5	13.5	11
	(Emporium, Pa)	46	39.5	33.5	33	26.5	26	22	18.5	15
	Pittsburgh, Pa., )	10	00.0	20.5	20	94	95	995	16	12.5
	Buffalo, N. Y }	40	38,9	52.0	.50	±د 		4	10	3. 44 49
	Boston, Mass.	66.5	59	50	46.5	37	- 38	34	29.5	24
	New York, N. Y.	61.5	55	46.5	43.5	-34 -92 #	- 30.5 - 22 5	31 90	27	20
	Philadelphia, Pa	55.5	49	41.0	41.0	- 30.9 - 32.5	39.5	28	24	19
	Albour N V	61.5	55	46.5	43.5	34	35.5	31	27	22
Group 5	Utica, N. Y.	56.5	60	44	42.5	34	34.5	30	25.5	21
Clarion,	Syracuse, N. Y	51	45	39.5	5 25.5	29	26	22.5	19	
Pa.	Rochester, N. Y. }	52	46	40.5	36.5	29.5	30	26.5	23	19.5
	Cumberland, Md	54.5	48	41	41.5	33	33.5	29	24.5	20
	Pittsburgh, Pa	43.5	37.5	32	28	22.5	22.5	19.5	17	14.5
	Buffalo, N. Y	51	44.5	38	35	28	28.5	25	21	17.0

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# TABLE 29—Continued

#### Construction of Rates from 60 Per Cent Territory to Eastern Basing Points

			RATE	S IN	Cent	S PEF	100	Pour	NDS	
From	То				C	lasses				
	,	1	2	R25	3	R26	R28	4	5	6
	Boston, Mass	66.5	59	50	46	37	38	34	28.5	23
	New York, N. Y.	61.5	55	46.5	43	34.5	35	31	26	21
	Philadelphia, Pa	55.5	49	41.0	41	33	33	29	24	19
	Aller N. W.	03.0 01.5	47	40	40	32	52	28	23	18
Group 6	Albany, N. Y	01.0	- DO	40	4.5	34.0	30	01 00	20	21
Waterson,	Utica, N. Y	00.0	49	42.0	41	- 53 - 00	33	29	24 99 m	19
Pa.	Byracuse, N. I	02	40	40	อบ	29	29.0	20	32.0	10
	Emporium. Pa.	52	46	40	36	29	29.5	26	22.5	18
	Cumberland, Md	54.5	48	41	41	33	33	28.5	24	18.5
	Pittsburgh, Pa	43.5	37.5	32	28	22.5	22.5	19.5	17	14.5
	Buffalo, N. Y	51	44.5	38	34.5	27.5	28	24.5	20.5	16
	Boston, Mass	65.5	58	49.5	45	36	37.5	33.5	28	23
	New York, N. Y	60.5	54	46	42	35.5	34.5	30.5	25.5	21
	Philadelphia, Pa	54.5	48	41	40	32	32.5	28.5	23.5	23
	Baltimore, Md	52.5	46	39	39	31	31.5	27.5	22.5	18
Group 7	Albany, N. Y	60.5	54	47	42	35.5	35	30.5	25.5	21
Holden,	Utica, N. Y	55	48.5	42.5	41	33	33.5	29	24.5	19.5
Pa.	Syracuse, N. Y	50	44	38.5	34.5	28	25	21	18	28
	Rochester, N. Y. }	50.5	44.5	39	35	28.5	29	25.5	22	18
	Cumberland, Md.	53	46.5	39.5	40	32	32	28	23.5	18.5
	Pittsburgh, Pa	43.5	37.5	32	28	22.5	22.5	19.5	17	14.5
	Buffalo, N. Y	49.5	43	36.5	33.5	27	27.5	24	20	16
1 Via B. Cl	& O. R. R. and W lasses 1	n. Md. Ri	Ry., 25	rate	s are R26	as i R28	ollov	vs:	6	
² Via B. Cl	& O. R. R. and Wr asses 1 2 ates 57 4	n. Md. R	Ry., 25	rates 3 1 37	are 30.5 30	as fo R28 29	26 0110W 4 25	s: ²² 5 20	10 6 17	
3 These	rates do not apply	in ed	onnec	tion	with	В. <i>8</i>	è Ő.	R. R	. or	Wn.
4 Via B	& O. R. R. and Wi	n. Md.	Rv.	rate	s are	as f	ollow	rs:		

Via	B. 8	& (	Э.	R.	R.	and	Wn.	Md.	Ry.,	rates	are as	follow	s:	
	Cla	sse	s			. 1	2	R2:	5 3	R26	R28	4	5	6
	Rat	tes				. 45	38	-32	32	26	25.5	22	18	15

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# CHAPTER XVII

#### ALL-RAIL RATES EASTBOUND-Continued

## SPECIFIC COMMODITY ADJUSTMENTS—Continued

# (a) Live Stock and Dressed Meat Rates

In this adjustment we have an example in which is shown the competition of commodities since any considerable increase in the rates or bases for rates on dressed meat not followed by a corresponding increase with respect to live stock rates, in all probability, would impair the meat packing industry at a given point by favoring the shipment of animals on the hoof or vice versa.

Consequently, an adjustment has to be built to enable abattoirs and packing houses at Indianapolis, Ind., Cincinnati, Ohio, and other eastern points to draw the cattle in from western ranges and to slaughter and distribute their products in competition with the great industries in this line at Chicago, St. Louis, and Missouri River points.

The transportation of live stock involves many considerations that do not have to be taken into account in the transportation of other freight. In the first place, special equipment is required for the accommodation of the stock which, as a rule, moves in one direction necessitating the return of the empty car to the loading point. In the second place, a very expeditious service is essential in order to enable the stock to be transported to market and disposed of with as little delay as pos-

sible. In the third place, free transportation is generally given to one or more attendants to look after, water, and feed such stock while in transit, and frequently return transportation is given the attendant as well. In the fourth place, the federal requirement that stock is not to be confined in cars for periods in excess of 28 hours, frequently necessitates the stopping of the stock in transit, short of the ultimate destination, for unloading, rest and water, which entails more or less expense. Most of these factors are eliminated in the transportation of dressed meats and meat products with the exception of an expedited service.

Concurrent with the general advance in rates in Official Classification Territory, changes were suggested in the basis obtaining heretofore for the construction of rates on live stock and dressed meats, and in the following pages the one adopted is set forth and, having been approved by the Commission, bids fair to stand for some time to come. The rates on dressed meats and packing-house products from Chicago to New York at the present time are shown in Table 30. These rates apply from all points in the 100 per cent group to New York and New York rate points and are used as a basing factor in establishing rates from other percentage groups to points in Trunk Line and New England territories.

As was the case with grain products, the list of packing-house products is quite diversified and includes many items, and as such, in several publications are included dried-chipped beef, boneless chicken, canned corned beef, extract of beef, lard, oleo, pigs feet (canned or pickled), roast beef canned, sausages of various kinds, soups, tallow, roast chicken and roast turkey canned, also various dried salted meats and sweet pickled meats and in general, except where specific commodity rates are authorized, they are on a basis of the existing fifth-class rate, as provided in the current Official Classification.

#### TABLE 30

#### RATES ON DRESSED MEATS, PACKING-HOUSE PRODUCTS, AND LIVE STOCK FROM CHICAGO TO NEW YORK AS BASES FOR RATES FROM PERCENTAGE POINTS ON MAP 4 TO POINTS IN TRUNK LINE AND NEW ENGLAND TERRITORIES

Commodities in Carloads	MINIMUM WEIGHTS (N	RATES otes 2 and 3)
Dressed beef, hogs, and sheep	21,000 lbs.	55
Cattle	21.000 lbs.	38
Calves, double-deck	21,000 "	38
Calves and hogs, single-deck	17,000 "	43.5
Goats and sheep, single-deck	14,000 "	47.5
Goats, double-deck	18,000 "	38
Sheep and lambs, double-deck	18,000 "	38
Hogs, double-deck	22,000 "	38
Horses and mules	(1)	74

¹As per Official Classification or current tariffs of exceptions thereto. ²Except for rates on horses and mules, the following rule (which constitutes an exception to the general rule) will govern the disposition of fractions in computing rates: When a fraction is .25 or less than .25 of a cent, omit it; when more than .25 and .75 or less, assume it to be ¹/₂ cent; and when more than .75, assume it to be 1 cent. For horses and mules, fractions will be disposed of as follows: When a fraction is less than .50 of a mill, omit it; when .50 of a mill, or over, increase to 1 mill.

³ From points in Illinois, Indiana, Kentucky, and prorating points on the Mississippi River taking higher than 100 per cent of Chicago-to-New York City rates, to all points east of the western termini of eastern trunk lines, including Virginia points, rates will be made by adding the following differentials to the rates from Chicago:

	F	rom					Diffe C In cei	erentials above hicago rates nts per 100 lbs.
Points	taking	over	100%	to	and	including	108%	2
. 44	+4	4.6	110%	4.6		6.6	112%	4
66	6.6		112%	6.8	**	44	117%	5
		120%	117%		but •	excluding	12017	8

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There is no definite relationship at this time existing between live stock, dressed meat, and packing-houseproducts rates. It has been felt by the traffic officials and has been reiterated from time to time by the Commission that the rates on these commodities should bear a definite relationship to each other but the basis has not yet been worked out.

As an exception to the general adjustment of rates applicable on domestic traffic, it will be observed from Table 31 that to Boston, Mass., the rates are made the same as the New York rates.

From percentage groups lying east of the 100 per cent group, the rates are made on the authorized percentages of the New York-Chicago rates applicable from such groups—that is, the rates from Cincinnati, Ohio (an 87 per cent point), would be 87 per cent of the rates applying from Chicago, Ill., indicated in Table 30.

From percentage points west of the 100 per cent group to New York, the rates are made by the addition of arbitraries to the Chicago-New York rates, these arbitraries being indicated in the foregoing table. For example, the rates on cattle from percentage points west of the 100 per cent group to New York are 38 cents per 100 pounds as shown in Table 30, plus the arbitrary shown in footnote 3 for the respective groups lying west of the 100 per cent group as indicated on Map 4, *Atlas of Railway Traffic Maps*.

The rate on dressed beef from Peoria, Ill., a 110 per cent point, is 55 cents plus 3 cents or 58 cents. The rate on dressed beef from St. Louis, Mo., a 117 per cent point, is 60 cents, which is obtained by adding the 5 cents arbitrary indicated in footnote 3, Table 30, for the 117 per cent group, to the Chicago basing rate of 55 cents.

In the application of this adjustment, as in that for grain and grain products, the special mode of rate construction, while differing in some respects, does not result in rates that are radical departures from those that would obtain under the application of the general percentage principle. The rate on sheep from Chicago to New York is 38 cents, and from St. Louis the rate is 43 cents, while 117 per cent of 38 cents yields 44.5 cents.

With reference to fractions, it is well to state that the rule employed in the live stock and dressed meat adjustment, is that when the fraction is .25 of a cent, omit it, when more than .25 and to and including .75, assume it to be  $\frac{1}{2}$  cent, and when more than .75, assume it to be 1 cent.

In justifying the higher rates on dressed meats and packing-house products than those applying on the animals on the hoof, it is well to call attention to the fact that while the risk of loss to the carrier by reason of damage to the stock or delay in transit, has been eliminated, the value of the same quantity has been enhanced a number of times, as pound for pound the prices on dressed meat as contrasted with the prices on live animals, are in many cases as three is to one.

# TO OTHER EASTERN BASE POINTS

In the following table are enumerated the various eastern base points and the formula for the construction of rates on live stock and dressed meat from percentage territory to other eastern groups; these rates are predicated on the rates that are established from Chicago to New York. Consequently, any change in the base rates from Chicago to New York is reflected by corresponding change in the rates to points based thereon.

#### TABLE 31

# Basis for Rates on Live Stock, Dressed Meats, Packing-House Products, Provisions, etc., from Percentage Territory (Map 4) to Eastern Groups (Map 10)

ITEM	TO EASTERN GROUPS	FROM PER- CENTAGE GROUPS	BASIS FOR RATES IN CARLOADS
1	Boston, Mass.	60-120	Same as to New York from same points
2	Rockland, Me.	60-120	Same as to Boston, but not less than from Cleveland, Ohio, to Boston
3	Stanstead, Que.	60-120	Same as to Boston, but not less than from Toledo, Ohio, to Boston
4	Philadelphia, Pa.	60-120	Two cents less than from same points to New York
5	Baltimore, Md.	60-120	Three cents less than from same points to New York
6	Albàny, N. Y.	60-120	Percentages of New York rates as shown in item 7, Table 22, for class rates
7	Utiea, N. Y.	60-120	Percentages of New York rates as shown in item 8, Table 22, for class rates
8	Syracuse, N. Y.	60-120	Percentages of New York rates as shown in item 9, Table 22.
9	Rochester-Mt. Morris, N. Y.	661-78	Add the following arbitraries, in cents per 100 pounds to Buffalo rates: Cattle, calves, hogs, and sheep, 2; meats, packing house products, and provisions, 2; and horses and mules, 3 ¹ ²
		79-120	Same basis as for class rates (Table 22)
10	Pittsburgh- Buffalo	60-120	Basis given on page 254 of this treatise
11	Grafton, W. Va.	60-120	Cents over Pittsburgh rates: Cattle and hogs, 2; dressed meats, calves, and sheep, 3; and horses or mules, 4
12	Cumberland,	60	Specific rates as per tariffs
	Md.	663-120	Same percentages of rates to New York as apply on class rates (Table 22, item 11)

#### ALL-RAIL RATES EASTBOUND

#### TABLE 31-Continued

#### BASIS FOR RATES ON LIVE STOCK, DRESSED MEATS, PACKING-HOUSE PRODUCTS, PROVISIONS, ETC., FROM PERCENTAGE TERRITORY (MAP 4) TO EASTERN GROUPS (MAP 10)

terror of the local division of the local di			
ITEM	To EASTERN GROUPS	FROM PER- CENTAGE GROUPS	BASIS FOR RATES IN CARLOADS
13	Belington- Elkins, W. Va.	60-120	Cumberland rates but not less than from Columbus, Ohio, to Cumberland, subject to minimum rate of 10.8 cents
		60-76	On cattle and other live stock (except horses and mules) rates will be made 3 cents less than applicable to New York on basis of 76 per cent of Chicago-to- New York rates; on horses and mules, rates will not be less than those appli- cable from Columbus, Ohio, to Balti- more, Md., on same traffic
14	Virginia Cities	77-87	On cattle and other live stock (except horses and mules) rates will be made 3 cents less than applicable to New York on basis of 87 per cent of Chicago-to-New York rates; on horses and nules, the rates to Baltimore, Md., will govern as minima, except that from points taking higher than 77 per cent of Chicago-to-New York rates which are located in the territory on and cast of the N. and W. Ry., Co- lumbus to Portsmouth, Ohio, and south of the P. C. C. & St. L. Ry., Columbus to and including Steubenville the rates will be not less than that applicable from Columbus, Ohio, to Baltimore, Md., on the same traffic
		\$8-120	Baltimore rates (subject to basis set forth in footnote 3 of Table 30)

¹Should the addition of these arbitraries make higher rates from points taking 66½ per cent to 78 per cent of rates from Chicago to New York, to Rochester, etc., than apply from points farther distant, or should it make higher rates to Rochester, etc., than apply to points east of Rochester, the arbitraries shall be reduced to such an extent as not to cause higher rates from 66½ per cent to 78 per cent points to Rochester, etc., than from or to points beyond. ²Under the foregoing, the rates to Rochester, etc., are not to be less than rates determined by using bases shown in item 10 of Table 22.

It is hardly necessary to explain the basis for each item, as the adjustment does not differ materially from that obtaining in the case of the class rates. For this

purpose it will be sufficient to call attention to the agreements with the general basis for the construction of class rates and a few exceptions thereto.

Rates from percentage territory to Boston, Mass., Rockland, Me., and Stanstead, Que., are on a different basis than that obtaining in connection with the class-rate and general commodity-rate adjustment. On the classified and general commodity traffic, these groups take arbitraries over the New York rates, while on live stock and dressed meats the same rates apply as to New York with certain minor exceptions. The rates to Philadelphia and Baltimore are the customary differentials less than the rate currently in effect to New York, while to Albany, Utica, Syracuse, and Rochester, the same percentages of the New York rates are applied as obtain in connection with the class-rate adjustment.

# CHAPTER XVIII

#### ALL-RAIL RATES EASTBOUND-Continued

# SPECIFIC COMMODITY ADJUSTMENTS-Continued

# (a) Rates on Iron and Steel Articles

To enumerate the many articles of iron and steel manufacture which are classified fourth, fifth, and sixth class in the current Official Classification, would involve a list far beyond the scope of this treatise. It does not of course comprise such articles as are manufactured from iron and steel which have a very high value as tools, utensils, implements, etc., but on the contrary it takes in the more crude and rough items of production. A few such representative commodities, selected at random, are reproduced in the following:

Angles, Iron	Ferrosilicon	Poles, Electric Wire
Axles, Car	Frogs. Railroad	Rods
Bands, Hay	Iron, Band	Shoes, Horse, Mule, or Ox
Beams, Brake	Iron, Bar	Spiegeleisen
Beams, Iron	Iron, Chain	Tubing
Bolsters, Car	Iron, Sheet	Weights, Bed or Elevator
Castings	Nails	Wire
Chains	Nuts	
Culverts	Pipe, Cast, Sheet, or	
Fastenings, Rail	Wrought	
Ferromanganese	Plate, Boiler	

In connection with the adjustment of rates employed with respect to grain and grain products and live stock and dressed meat, it should be noted that they are generally authorized and applied throughout the territory, both as to points of origin, on the one hand, and

as to points of destination, on the other, since these commodities may reasonably be inferred to move from and to any of the points therein.

As there are facilities for the working of iron at comparatively few points throughout the territory, and as the industry has, to a large extent, centered in eastern Ohio, western Pennsylvania, and New York the special iron and steel adjustments are confined in their application to these groups.

# (b) Grouping of Territory

The territory above mentioned has been roughly divided into a number of groups, and the principal point therein has usually been the name assigned to the group.

The Pittsburgh group takes in some 400 points in western Pennsylvania adjacent to Pittsburgh.

The Wheeling group includes some 40 stations near Wheeling in West Virginia and Ohio.

Cleveland rates apply from some 120 points in eastern Ohio near Cleveland.

The Youngstown group takes in some 160 stations in eastern Ohio and western Pennsylvania not included in either the Cleveland or Pittsburgh groups.

The Marietta-Zanesville group includes points mentioned and some 75 additional points in eastern Ohio not embraced in any of the foregoing groups.

The Dunkirk group applies from Dunkirk and relative points, the southwestern part of New York, and the extreme northwestern part of Pennsylvania.

The rates on manufactured articles of iron and steel, also pig iron, iron, and steel billetts, blooms, etc., are generally expressed, in so far as the manufactured articles are concerned, at rates in cents per 100 pounds, while the heavier commodities such as pig iron, iron and steel billets and blooms are quoted at rates, in cents per ton at 2000 pounds or gross 2240 pounds, as indicated.

The rates on manufactured articles of iron and steel, also pig iron, iron and steel billets, blooms, etc., from percentage points shown on Map 4 to the New York group shown on Map 10 are based on the rates from Chicago to New York, except from the more important groups named above, which adjustments will subsequently be taken up.

The rates currently in effect from Chicago to New York and used as basing factors are as follows:

Pig iron, mill cinder scale and ore	
cinder	r gross ton
Ingot molds 5.20 "	net ''
Billets, blooms, scrap iron, old rails,	
old car wheels, chain iron, tin plate,	
rods, etc 5.30 "	gross ''
Pig molds 5.20 "	net "

The rates from percentage territory, other than the groups above mentioned, are constructed by the application of the percentages employed in connection with the general commodity-rate adjustment, both as to points of origin, other than Chicago on the one hand, and to points of destination, other than New York, on the other hand.

From the special groups, the rates are constructed under the application of an arbitrary basis, namely, from the Pittsburgh-Wheeling groups, the rates to New York are made the same as from Buffalo, with the exception that on articles taking fourth-class, fifth-class, and sixth-class rates, the rates are made 60 per cent of those obtaining from Chicago to New York.

From the Cleveland group, the rates are 3 cents per 100 pounds or 60 cents per ton higher than from Pittsburgh.

From the Youngstown group to the New York group,

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the rates are 2 cents per 100 pounds or 40 cents per ton higher than from Pittsburgh.

From the Marietta-Zanesville group to the New York group, the rates are  $3\frac{1}{2}$  cents per 100 pounds or 70 cents per ton higher than from Pittsburgh.

The rates from Dunkirk are the Pittsburgh rates, not to exceed in any event the rates that may be established from Youngstown. This was necessitated by the application of the long-and-short-haul clause.

Under the foregoing, in computing the rates on articles of iron and steel rated per gross ton from percentage points, except those mentioned above, the following method would be employed:

The base rate from Chicago to New York is established, we will say, on a per gross ton basis, and the rate for 100 pounds is obtained by using the weight of 2000 pounds per ton as a factor and dividing the rate per ton by 20 to obtain the rate per 100 pounds, retaining the actual fractions. With this rate obtained, the rates from percentage points other than the 100 per cent group are secured by applying the proper percentages shown on Map 4, Atlas of Railway Traffic Maps.

A basing rate of \$5.30 per gross ton on billets named from Chicago to New York is equivalent to a rate of 26.5 cents per 100 pounds. The rates from Defiance, Ohio, to New York is 85 per cent of the 26.5 cent rate from Chicago to New York which makes the rate from Defiance 22.5 cents or \$4.50 per gross ton.

To Eastern Base Points Other Than New York.—In the following table there has been reproduced the current basis for the establishment of rates on iron and steel articles and articles manufactured therefrom, from a few of the representative groups. These may be taken as typical of those applying from other groups and serve, in a measure, to illustrate the general adjustment that obtains with respect to this traffic.

ASIS ^t F	OR RATES IN C	) SQROADS (	T IN IRON AND S	ABLE 3: TEEL ART	ICLES FROM P	ITTSBURGE	I, CLEVELAND,	Youngs
			TUWN, ETC.	, TU EAST	LERN GROUPS			
FROM	PITTSBURGH-WI GROUP	HEELING	CLEVELAND (	GROUP	YOUNGSTOWN	GROUT	MARIETTA-ZA GROUI	NESVILLE
	In cents per 100 pounds	In cents per ton	In cents per 100 pounds	In cents per ton	100 pounds In cents per	In cents per ton	In cents per 100 pounds	In cents per ton
	Iron and steel articlesclassified Classes	Billets, pig iron,	Tron and steel articles classi- fied Classes	Billets, pig iron,	Iron and steel articles classi- fied Classes	Billets, pig iron,	Iron and steel articles classi- fied Classes	Billets, pig iron,
Lo	4 5 6	ete.	4 5 6	etc.	4 5 6	erc.	4 5 6	ete.
Ibany, N. Y.	100% of rates Pittsburgh to York	l from New	2 2 2 bigher than burgh	30 Pitts-	1 1 1 higher than burgh	20 Pitts-	3 3 3 higher than hurgh	60 Pitts-
alti- more, Md.	<b>3 3 3</b> less than to New	30 York	3 3 3 higher than burgh	60 Pitts-	2 2 2 higher than burgh	40 Pitts-	3 ¹ / ₂ 3 ¹ / ₂ 3 ¹ / ₂ higher than burgh	70 Pitts-
oston, Mass. ock-	3 2 <u>3</u> 2	40		60	01 01	40	31 31 31	70
land, Me. an-	higher than York ra	New tes	higher than burgh	Pitts-	higher than burgh	Pitts-	higher than burgh	Pitts-
Que. Vork, N V	60% of Chicago to New York	Buffalo rates	3 3 3 higher than	60 Pitts-	2 2 2 higher than	Pitts-	34 34 34 higher than	70 Pitts-
phia, Pa.	2 2 2 less than to New	20 York	3 3 3 higher than burgh	60 Pitts-	2 2 2 higher than burgh	40 Pitts-	31 31 32 34 higher than	70 Pitts-

ALL-RAIL RATES EASTBOUND

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Classespig iron, 4 5 6classespig iron, 4 5 6classespig iron, 4 5 6classespig iron, 6 cc.72% of rates, vork72% vork72% burgh to New72% vork8ame as from burghPitts- 1ess than Pitts103 2 2 burgh40Y vorkburgh to New72% vork8ame as from burgh to NewPitts- 1ess than Pitts1 1 1 burgh1 1 1 burgh1 1 1 burgh1 20Y vorkburgh to NewYorkSame as from burghPitts- 1ess than Pitts3/10 4/10 5/10 burgh8ame as from burghPitts- burgh1 1 1 burgh1 1 1 burgh1 20Y vorkburgh to NewYorkburghPitts- burgh0 0 $\frac{1}{8}$ burgh100 burgh1 1 1 burgh1 20Y vorkburgh to NewYorkburghPitts- burgh2020Y vorkburgh to NewYorkburghpiger thus1 1 burgh1 1 burgh1 1 burghN vorkburgh to NewYorkburghPitts- burgh2020Yburgh to NewNorkburghpiger thanPitts- burgh20N vorkburgh to NewNorkburghpiger burghPitts- burgh20N vorkNewNewNewNewNewPitts- burgh20N vorkNewNewNewNewNewPitts- burgh20N <b< th=""><th>ROM</th><th>PITTSBURGH-WH PITTSBURGH-WH GROUP In cents per 100 pounds tron and steel articles classi- fuel</th><th>(EELING In cents per ton Billets,</th><th>TOWN, ETC. CLEVELAND C CLEVELAND C In cents per 100 pounds Iron and steel articles classi- fied</th><th>, TO EAS' inour herton Billets,</th><th>TERN GROUPS YOUNGSTOWN In cents per 100 pounds Iron and steel articles classi- fied</th><th>GROUP In cents per ton Billets,</th><th>MARIETTA-ZA GROUJ In cents per 100 pounds fron and steel articles classi- fied</th><th>NESVILLE NESVILLE Per ton Billets,</th></b<>	ROM	PITTSBURGH-WH PITTSBURGH-WH GROUP In cents per 100 pounds tron and steel articles classi- fuel	(EELING In cents per ton Billets,	TOWN, ETC. CLEVELAND C CLEVELAND C In cents per 100 pounds Iron and steel articles classi- fied	, TO EAS' inour herton Billets,	TERN GROUPS YOUNGSTOWN In cents per 100 pounds Iron and steel articles classi- fied	GROUP In cents per ton Billets,	MARIETTA-ZA GROUJ In cents per 100 pounds fron and steel articles classi- fied	NESVILLE NESVILLE Per ton Billets,
e, S47% of rates, Pitts-       Same as from       Pitts-       3/10       4/10       5/10       Same as 1       1       1       20         burgh to New       York       Same as from       Pittsburgh       Durgh       Durgh       1       1       1       20         92% of rates,       Pitts-       Durgh to New       York       Same as from       Pittsburgh       Durgh       1       1       1       20         burgh to New       York       Same as from       Pittsburgh       less than Pitts       burgh       Nigher than       Pitts-         a       Columbus, Ohio,       higher       Same as from       Nigher       less than Pitts       burgh       Pitts-       20         a       Columbus, Ohio,       higher       Same as from       higher       Same as from       Pitts-         Md., rates       New       Pittsburgh       Pitts-       Durgh       Pitts-       Durgh       Pitts-         Md., rates       New       Pittsburgh       Pitts-       Durgh       Pitts-       Durgh       Pitts-         Nd., rates       New       Pitts-       Durgh       Pitts-       Durgh       Pitts-       Durgh       Pitts-         Nd., rates	-	Classes 4 5 6 72% of rates, York	pig iron, etc. 72% Pitts-	Classes 4 5 6 Same as from burgh	pig iron, etc. Pitts-	Classes456 $\frac{1}{2}$ $\frac{1}{2}$ less than l'itts	pig iron, ctc burgh	Classes 4 5 6 3 2 2 higher than burgh	Pignor, Post run, etc. 40 Pitts-
92% of rates, Pitts-       Same as from burgh       Pitts-       0       10       10       1       1       1       20         burgh to New       York       burgh       Same as from       Pitts-       20       1       10       1       10       1       1       1       20         a       Columbus, Ohio, higher       Pane       Same as from       1       20       20       20       20         a       Columbus, Ohio, higher       Pittsburgh       Pittsburgh       Pittsburgh       Pittsburgh       Pittsburgh       Pittsburgh       1       1       20         Md., rates       New       Pittsburgh       Pittsburgh <td>. 3c,</td> <td>84% of rates, burgh to New</td> <td>Pitts- York</td> <td>Same as from burgh</td> <td>Pitts-</td> <td>3/10 4/10 5/10 Less than from Pittsburgh</td> <td>Same as from Pitts- burgh</td> <td>1 1 1 higher than burgh</td> <td>20 Pitts-</td>	. 3c,	84% of rates, burgh to New	Pitts- York	Same as from burgh	Pitts-	3/10 4/10 5/10 Less than from Pittsburgh	Same as from Pitts- burgh	1 1 1 higher than burgh	20 Pitts-
a Columbus, Ohio, higher Same as from higher Same as from higher Same as from higher burgh Add, rates New York Nd, rates as to Buf alo, Same as to Ro hurgh burgh		92% of rates, burgh to New	Pitta- York	Same as from burgh	Pitts-	$\begin{bmatrix} 0 & 0 & \frac{1}{2} \\ less than Pitts \\ \cdot \\ \cdot \end{bmatrix}$	10 burgh	1 1 1 higher than burgh	20 Pitts-
- Same as to Buf falo, Same as to Ro chester Same as to Ro chester N. Y.	ര്ഗ	Columbus, Ohio, to Baltimore, Md., rates	20 higher than New York	Same as from Pittsburgh	20 higher than Pitts- burgh	Same as from Pittsburgh	20 higher than Pitts- burgh	Same as from Pittsburgh	20 higher than Pitts- burgh
	1	Same as to Buf N. Y.	falo,	Same as to Ro ter	chester	Same as to Ro	chester		

TABLE 32-Continued

FREIGHT RATES-OFFICIAL TERRITORY

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This table shows the formula to be employed in making rates to certain eastern groups only. To such eastern groups as are not shown in this table, the general commodity adjustment applies from the special groups in percentage territory. However, the arbitraries over Pittsburgh rates, indicated therein, as applied to existing rates will indicate, in some cases, a disregard of this adjustment which is optional with the several carriers.

The base rate for groups in the eastern part of percentage territory to eastern groups is the rate from Pittsburgh to New York. The rates from Pittsburgh to New York are 60 per cent of those from Chicago to New York except on billets, pig iron and articles taking the same rate and articles in the special list of iron and steel articles. On the excepted articles, rates from Pittsburgh are the same as from Buffalo.

The rates from the Pittsburgh-Wheeling group are usually a certain percentage of the rates from Pittsburgh to New York. However, there are a number of exceptions to this general statement. From Cleveland, Youngstown, Marietta, and Zanesville, the rates are usually arbitraries over or under those from Pittsburgh. The details of this basis are set forth in the preceding table. In most items of the table, the rates to the eastern groups in question are either percentages of the rates from Pittsburgh to New York or arbitraries over the Pittsburgh rates.

On the application of the basis set forth in the table, representative rates from Cleveland and Youngstown, Ohio, on articles of iron and steel manufacture, classified fourth class in less than carloads, are as follows:

	CLEVELAND	YOUNGSTOWN
New York Boston Philadelphïa	$     28 \\     31 \\     26 \\     27 $	27 30 25 26

	CLEVELAND	YOUNGSTOWN
Utica		23
Syracuse		21
Rochester		17.5

The rate on new iron and steel rails which are rated per gross ton is as follows from Cleveland and from Youngstown:

(	CLEVELAND YO	DUNGSTOWN
New York	\$3.70	\$3.50
Boston	4.20	4.00
Philadelphia	3.60	3.30
Baltimore	3.50	3.30
Albany	3.50	3.40
Utica	2.90	2.80
Svracuse	2.70	2.70
Rochester	2.30	2.20

# CHAPTER XIX

### DIFFERENTIAL RATES

#### OCEAN-AND-RAIL AND RAIL-AND-OCEAN RATES

# (a) Eastbound Rates

In railroad phraseology the arrangement of the names of the agencies employed in these routes indicates the course of the movement. A "rail-and-ocean route" means a rail haul in the first instance, and then an ocean haul, whereas the reverse order is meant by the term "ocean-and-rail route."

This service was inaugurated by the Baltimore and Virginia Cities' lines, which are the Baltimore & Ohio Railroad, the Chesapeake & Ohio Railway, the Norfolk and Western Railway, and the Southern Railway, and designed to give them an entrance into Trunk Line and New England territories and to enable them to compete with the all-rail lines serving these territories.

The principal ocean carriers engaged in this traffic are the Clyde Steamship Company, Old Dominion Steamship Company, and the Merchants & Miners Transportation Company. These carriers collectively serve the ports of Boston, Providence, New York, Philadelphia, Baltimore, Norfolk, and Newport News.

Owing to the necessity of the transfer from cars to vessel, or from dock to vessel and to the subsequent discharge from vessel to cars or docks, the time in transit considerably exceeds that of the rail lines. As thereby the element of risk is also considerably increased, the route has its disadvantages as compared with the standard all-rail route. In order to attract tonnage it is necessary for the water-and-rail routes to establish transportation charges which are less than those that obtain via the all-rail lines.

The question as to what is a proper scale of rates to be maintained by the ocean-and-rail routes has been a very vexatious problem confronting the traffic managers of the various organizations. Out of a series of rate wars, however, the present system has evolved. The all-rail lines, conceding to the demands of the rail-and-water lines agreed to the establishment of rates which should be on fixed figures, or differentials as they are called, to the extent that the rates by the water-and-rail routes might be established under the existing all-rail rates from and to the same points. Indeed, the lines are frequently designated as "differential routes" or "differential lines." The terms so used refer to routes or lines which, on account of a slightly inferior service, are conceded rates based on differentials under existing standard allrail rates.

The basis for rates via rail-and-ocean lines from Central Freight Association Territory to certain north Atlantic ports and to interior eastern points taking the same rates is set forth in Table 33. All the differentials are shown in Table 14, which should be consulted in this connection.

BASIS FOR RATES VIA RAIL AND OCEAN FROM CENTRAL FREIGHT Association Points to North Atlantic Seaboard Ports and Interior Eastern Points

Iten	To POINTS SPECIFIED IN ITEMS	FROM PER- CENTAGE POINTS		DIFFERENTIALS IN EENTS PER 100 POUNDS Classes 2 3 4 5 6					Remarks	
1	To Boston ¹ and Fall River, Mass., Prov- idence, R. I., and New York via Bal- timore and Phila- delphia	60-76 77-119	3 8	$2\frac{1}{2}$ 6	2 4	1 <u>1</u> 2	1 2	1 2	Under all-rail rates Under all-rail rates ²	

#### DIFFERENTIAL RATES

#### TABLE 33—Continued

ITEM	То	9 POINTS SPECIFIED IN ITEMS		From Per- centage Points	DIFFERENTIALS CENTS PER 100 P Classes 1 2 3 4			LS IN POUN 5	sds 6	Remarks		
2	To fi o V	all poi ed in tl f the Virginia	ints speci- he heading table via ports.	60-119	s	6	4	3	51	2	Under all-rail rates³	

¹ But not to Boston via Fall River or Providence. ⁸ But not less than rates established from 76 per cent points. ⁸ The rates to Baltimore via all rail are the minima for through rates. except from St. Louis and other 117 per cent points. From the St. Louis group the Baltimore rates are not the minima.

The ocean-and-rail rates eastbound, it will be observed, apply via two distinct groups of points, namely, (1) Baltimore and Philadelphia and (2) the Virginia ports, including Norfolk and Newport News.

As Baltimore and the Virginia Cities are the termini of rail lines it is, of course, natural to find that no adjustment is prescribed for rates to such ports.

To New York and to the New England ports specified and to points taking the same rates, the rates are made the differentials indicated in Table 33, under the all-rail rates applicable from and to the same points.

For example, the all-rail rates from the 117 per cent group to Boston are the following New York rates:

0 6 1 -3 4 5 Classes ..... 92.570 49 42 35 

to which are added the following differentials:

Classes ..... 1 2 3 5 6 6 7 5 - 4 3 2 Rates .....

resulting in the following through rates from East St. Louis to Boston via all-rail routes:

Classes 1	2	3	4	5	6
Rates	98.5	75	53	45	37
OTable 22, item 2.					

Using the foregoing all-rail rates from East St. Louis to Boston as a basis, the rates via Baltimore or Philadelphia in connection with the ocean-and-rail lines, are established by deducting the 8-cent scale of differentials, which results in the following rates:

Classes	1	2	3	4	5	6
Rates	104.5	92.5	71	50	43	35

The same principles are employed in establishing the rates via Virginia ports, but with the proviso that rates so established must not in any event be less than the rates established to Baltimore via all-rail routes. This has the effect of making the rates (except from St. Louis, Mo., East St. Louis, Ill., and points basing thereon) the following differentials under the all-rail rates:

1	DIFFERI	ENTIALS	IN CEN	TS PEB	100 I	POUNDS
То			Class	es		
	1	2	3	4	õ	6
Boston, Mass.	8	G	4	3	2	2
Providence, R. I	8	6	4	3	2	2
New York, N. Y	3	3	3	3	2	2
Jersey City, N. J	3	3	3	3	2	2
Philadelphia, Pa	1	1	1	1	1	1

As far as destinations are concerned, the base-point rates are not established to such wide zones as obtain in connection with the all-rail adjustment. To the greater part of New England, especially to interior points more distantly removed from the ports of Providence and Boston, the rates are made by the addition of certain arbitraries over the port rates, these arbitraries in some cases are the full local rates of the rail carriers serving the ports, and in other cases, they are certain amounts less than the local rates. This information is given in the guide books of these routes.
#### DIFFERENTIAL RATES

### (b) Westbound Rates

On westbound traffic from New York, there are two scales of differentials in use. One scale is based on a 16.8-cent scale applicable during the open season of navigation on the Great Lakes, which causes competition that is felt by the ocean-and-rail lines to a considerable degree. The other scale is based on a 10-cent differential on first class, and is applicable when navigation is closed, and results in rates slightly higher during the winter months than those that obtain during the summer months.

Table 14 indicates the rates applicable via the various ocean-and-rail routes, and from this it may be observed that while the rates from Boston and New York to Chicago during the season of open navigation are on the same basis when navigation on the Great Lakes is closed, the rates applicable via the ocean-and-rail routes from Boston are on a 5-cent scale of differentials over the rates from New York via the same routes.

It may be said in passing, that in recent years, due to improved methods in the handling of cargo freight, the time consumed by these routes has been materially reduced and modern marine equipment has greatly minimized the opportunities for loss or damage. Consequently the lines afford a service that is but slightly inferior to that of the all-rail routes, and they have succeeded in attracting to themselves a large volume of business which formerly moved via all-rail lines at higher rates.

### CHAPTER XX

#### DIFFERENTIAL RATES-Continued

### LAKE-AND-RAIL RATES

On the entrance of this country into the European war a large number of the lake boats were requisitioned for the Atlantic trade, consequently reducing the movement of merchandise to a minimum on the Great Lakes. Another important feature was Director-General McAdoo's order that all differential rates be removed, thus bringing the rates to the level of the all-rail routes. This naturally transferred the great bulk of freight to the railroads as there was no advantage in shipping over the slower routes. An outcry against this order was raised both by the lake carriers and the shippers, with the probability that these rates will be returned to their former status, and should therefore be very closely studied.

Navigation is possible upon the Great Lakes during the open season, when the lakes are unobstructed by ice. During this period, which usually extends from April 15 to November 15, from sixty million to one hundred million tons of freight are moved thereon. A large portion of the westbound tonnage, which is destined to and beyond western freight ports, originates at New York, Philadelphia, and Boston, and at other points in New England and Trunk Line territories.

The nature of the service, of course, is such that it attracts only such traffic for which the question of time and service is of secondary importance.

#### DIFFERENTIAL RATES

The figures shown in the following list are taken from a recent report of the United States Engineer Department.

	Receipts	SHIPMENTS
Duluth-Superior	\$9,424,962	\$21,247,884
Manistique		278,594
Gladstone Harbor		449,223
Menominec		222,604
Marionette		83,899
Green Bay	751,326	129,455
Sturgeon Bay		571,773
Kewance	143,584	73,282
Manitowoc	579,747	1,437,229
Milwaukee	6,224,239	1,388,002
Chicago	2,452,554	1,573,022
Calumet Harbor (South Chicago)	5,010,187	1,597,809
Buffalo	7,641,841	4,776,021

The shipments of the northern ports, such as Duluth and Superior, are confined to a greater extent to shipments of ore, grain, and grain products, and to other commodities that are peculiar to the northwest. Coal is also an item that figures in a large proportion in the lake traffic of the several ports. The following summary of the receipts at the port of Buffalo presents, however, a very diversified list of articles of commerce and may be taken as typical of those of other ports:

Beer 1,002	casks
Blanks, Button	sacks
Blocks, Butchers' 298	
Cakes, Oil 80,353	sacks
Casings 495	tons
Cereals	cases
Coal 71,395	tons
Cooperage 4,677	tons
Copper	tons
Cotton	bales
Feed 1,928,007	sacks
Fish	tons
Glucose 105,132	bbls.
Goods, Canned 42,980	cases
Goods, Woolen 42	cases
Grain and Flour-	
Barley	bu.
Corn 29,430,222	bu.
Flax	bu.
Flour	bu.
Oats	bu.
Rye 755,299	bu.
Wheat	bu.
Hair	bales

Hides	3,750	bales
Hops	1,050	bales
Implements, Agricultural	7,114	tons
Iron, Pig	62,487	gross tons
Iron, Serap	235	gross tons
Lard	900	tubs
Lath	3,386,000	
Lead	2,000	pigs
Lead. White	236	cases
Leather	227	bundles
Lumber	104,434,000	ft. bd. meas.
Matting	7,746	rolls
Merchandise	$165,\!671$	tons
Ore, Iron	2,317,048	gross tons
Oat Meal	290	bbls.
Ore, Sulphur	31,000	gross tons
Paint	21	tons
Peas	6,025	bu.
Pebbles	5,790	sacks
Pelts	396	bundles
Pickles	1,260	bbls.
Pork	10,923	bbls.
Posts	17,000	
Rags	19,296	bales
Rubber	12,608	bales
Sand, Furnace	1,100	tons
Seed, Grass	11,944	bu.
Shingles	688,000,590	
Starch	643,706	boxes
Stone	34,065	tons
Syrup	5,195	bbls.
Tallow	130	bbls.
Ties, Railroad	4.000	
Tobacco	145	cases
Twine	275	tons
Vinegar	1,090	bbls.
Water, Mineral	1,023	bbls.
Wool	13,144	bales
Zinc	45	tons

These figures, which were also obtained from the engineers' report previously mentioned, represent a valuation of \$230,304,221.

For a number of years it has been the policy of the trunk-line carriers to establish lake lines and to operate them as subsidiary properties. The more important of the lake lines with their parent companies were as follows (Annual Report—U. S. Engineer Department, 1912):

Anchor Line (Pennsylvania Railroad).

Erie & Western Transportation Company ("Anchor Line") (Pennsylvania Railroad).

Canada Atlantie Transit Company (Grand Trunk Railway). Canadian Pacific Steamship Lines (Canadian Pacific Railway).

The Lehigh Valley Transportation Company (Lehigh Valley Railroad).

Mutual Transit Company (the joint property of the Lehigh Valley, the Erie, the Delaware, Lackawanna & Western, and the New York Central railroads).

The Western Transit Company (New York Central Railroad). Rutland Transit Company (Rutland Railroad). Erie Railroad Lake Lines (Erie Railroad).

The map in Diagram 9 has been reproduced in this treatise¹ because it indicates the routes and the various ports of call served by several of the important companies.

The propriety of the continuance of the lake lines under railroad control was made the subject of legislation in the so-called Panama Canal Act. The ownership by rail carriers of water craft which, if operated as independent lines, might compete for trade was made an issue in the case of the lake lines, and the Interstate Commerce Commission decreed that a continuance of such ownership was contrary to the statute and contrary to the public interest. It therefore ordered the railroads to dispose of their interest in the lake lines not later than December 15, 1915.

In the issue above mentioned, it was alleged that the boat lines when operating as a distinct unit have been losing, but that by reason of the financial strength of the owning railroads the boats have been kept in service, though operating at a loss; that this condition could not or would not prevail if it were not for the joint ownership; that the boats would otherwise disappear from the lakes; and that the keeping of these boats in the service is indispensable and advantageous to the convenience and commerce of the people.

Even under these new conditions the rates maintained by the lake lines under railroad management for

¹See Diagram 9, page 106.

some years will serve as the criterion by which such rates as may be established in the future may be measured.

Owing to the aggressive competition between many lines participating in the traffic and in the complaints broughts by rival communities as to the adjustment, the general basis for the construction of rail-and-lake rates has been subject to many fluctuations. The adjustment currently in effect has been reproduced in Table 34, which shows the basis for rail-and-lake rates on classes from the eastern groups specified in the table to various western destinations.

TABLE 34 BASIS FOR RATES VIA RAIL AND LAKE ON CLASSES FROM EASTERN GROUPS TO WESTERN POINTS SPECIFIED

	FROM NEW YORK RATE	RATI IN C	ES OI	R D	IFFER R 100	ENTI Pou	ALS	
CM	GROUP TO			(la	isses			REMARKS
IT		1	2	3	4	5	6	
1	Chicago, Ill., Milwaukee and Manitowoc, ¹ Wis. Also to Gladstone ¹ and Sault Ste. Marie, ¹ Mich., for Lake Line Delivery	13	11	9	5	5	4	Lower than New York-to-Chicago all-rail rates
2	Cleveland, Ohio	5.9	5.5	3.3	3.1	2.4	1.7	Lower than all-rail rates
3	Detroit and Port Huron, Mich.	11.5	8.3	6	4.7	4.6	2.5	Lower than all-rail rates
4	Duluth, Minn., Marquette, ¹ Mich. Superior, Wis., Hancock, ¹ Houghton, Dollar Day, ¹ and Hubbel, ¹ Mich.							Same rates as from New York to Chicago via rail and lake
5	Sault Ste. Marie, ¹ Mieh., and stations on M. St. P. & S. S. M. Ry., St. Mary's Transfer to Rap- id River and Trenary, Mich., inclusive, via Lake Lines to Glad- stone, Mich., thence via rail	3	3 (1	3 nf.	3 11951	2 <u>1</u> )	21	Higher than New York-to-Chicago rail-and-lake rates

¹At the time of revision of this treatise the rail-and-lake rates are in a very uncertain state because the rail lines have been obliged to relinquish their control of the boat lines operating on the Great Lakes. A number of the boats formerly owned by the railfroads are being operated by The Great Lakes. Transit Corporation, an organization independent of the rail lines. The basis of rates therefore shown is subject to change, and careful investigation should be made to determine the rates in effect at any specified time.

### DIFFERENTIAL RATES

### TABLE 34—Continued

### BASIS FOR RATES VIA RAIL AND LAKE ON CLASSES FROM EASTERN GROUPS TO WESTERN POINTS SPECIFIED

-				_				the second se
	D. N. W. D.	RAT	ES OF	R DI	FFE	RENT	IALS	8
W	FROM NEW YORK RATE		ENTS	Clas	200	100	) N D:	REMARKS
[TE	GROUP TO	1	2	$\frac{01a}{3}$	4	5	6	-
6	St. Paul rate territory	21	18	13	8	7		Higher than Du- luth rail-and- lake rates
	Aurora-Elgin, 111.	14.3	11.1	8.2	6.4	5.7	4.]	
	Altamont, Annawan, Laura	14.4	12.2	8.9	5.7	5.5	4.5	2
	Mason City	14.3	11.5	8.8	6.2	5.3	4.5	5
	Galva, St. Louis	14.2	11.9	8.4	6.1	5.9	4.8	B.
	St. Marys	14.2	11.3	8.1	5.9	5.4	4.1	
7	Westville	14.1	11.8	8.7	5.7	6	4.4	Lower than all-rail
	Neponset	14.6	11.5	8.4	6.3	5.2	4.2	rates
	Danville, Joliet, Kanka- kee, Racine	13.8	11.3	8.5	5.8	5.5	4.3	
	Peoria, Streator	13.7	11.1	8.8	5.5	5.7	3.9	
	Atkinson, Carthage, Mon- mouth, Moline	12.2	9,9	7.4	5.1	4.9	3.8	
	Springfield	14	12.2	8.3	5.6	5.6	4.7	
	FROM PHILADELPHIA RATE GROUP TO							
8	All destination territories above enumerated	6	6	2	2	2	2	Lower than rail- and-lake rates from New York
	FBOM BALTIMORE RATE GROUP TO							
9	All destination territories above enumerated	8	8	3	3	3	3	Lower than rail- and-lake rates from New York
	FROM CERTAIN POINTS IN VICINITY OF NEW YORK ² TAKING NEW YORK BASIS ON RAIL-AND-LAKE TRAFFIC, TO							
	Galion, Ohio	5.9	4.9	1.9	3	1.9	2	
	Tiffin, Ohio Forest, Ohio	7.5	6.3	3	3.7	2.6	2.5	
	Findlay, Ohio	9	7.6	4	4.4	3.2	3	
10	Urbana, Ohio	10.6	9	5.1	5.2	3.8	3.6	Lower than New
	Springfield, Ohio	11.4	9.7	5.6	5.5	4.1	3.8	York all-rail
	Dayton, Ohio	12.2	10.4	6.1	5.9	4.5	4.1	rates ^a
	Ansonia, Ohio	13	11.1	6.6	5.3	4.8	4.4	
	Union City, Ohio	12.8	10.7	7.2	5.6	5.1	3.6	

#### TABLE 34-Continued

#### BASIS FOR RATES VIA RAIL AND LAKE ON CLASSES FROM EASTERN GROUPS TO WESTERN POINTS SPECIFIED

1	FROM CERTAIN POINTS IN	RATI	ES O	R DI	FFER	ENTI	ALS	
	VICINITY OF NEW YORK ²	in C	ENTS	PER	100	Pou	NDS	Dancepro
M	TAKING NEW YORK BASIS			Clas	ses			REMARKS
E	UN KAIL-AND-LAKE TRAFFIC TO	1	2	3	4	õ	6	
	Cincinnati Obio	13.6	10.4	7.7	6	5.4	3.9	
	Winehester, Ind.	13.3	11.1	8.2	5.4	5.7	4.1	
	Muneje Ind.	12.9	10.5	8.3	5.1	5.4	3.7	
	Anderson, Ind.	13.5	10.8	8.3	5.9	5	4.2	Lower than New
10	Indianapolis, Ind.	13.3	11.5	7.8	5.2	5.3	4.5	York all-rail
10	Fairmount, Ind.	13.9	10.9	7.9	6	4.9	4	rates ³
	Lebanon, Ind.	13.6	11.6	8.4	5.3	5.2	4.2	
	Martinsville, Ind.	13.4	11.3	7.9	5.7	5.6	4.5	
	Crawfordsville, Ind.	13.8	11.3	8.5	5.8	5.5	4.3	
	FROM BOSTON RATE GROUP ⁴ TO							
11	Cleveland, Ohio	7.9	6.5	4.3	4.1	3.4	1.7	Lower than Boston all-rail rates
12	Detroit, Port Huron, Chi- eago, Milwankee, Maui- towoe, Gladstone, Sault Ste. Marie, Duluth, Su- perior, Marquette, Han- cock, Houghton, Dollar Bay, Hubbel, St. Paul, Green Bay, Racine, Jol- iet, Kankakee, Aurora, Elgin, Streator, Ne- ponset, Laura, Galva, Annawan, Atkinson, Moline, and Monmouth rate territories							Same as rail-and- lake rates from New York
	Danville, 111.	8.8	7.3	<b>ð.</b> ð	4.8	3.5	2.3	Lower than Boston
	St. Mary's, Ind.	19.2	7.3	5,1	4.9	3.4	2.1	all-rail rates
	Westville, 111.	9.1	7.8	5.7	4.7	4	2.4	
	Peoria, Ill.	S.7	7.1	5.8	4.5	3.7	1.9	
13	Mason City, Ill.	9.3	7.5	5.8	5.2	3.3	2.5	•
	Springfield, Ill.	9	8.2	5.3	4.6	3.6	2.7	
	Altamont, Ill.	9.4	8.2	5.9	4.7	3.5	2.5	
	St. Louis, Mo. Trans-Mississippi	9.2	7.9	5.4	5.1	3.9	2.8	
	Carthage, 111.	7.2	5.9	4.4	4.1	2,9	1.8	
			1.4.2		Y	3.7	3 63.6	

Table 34 indicates only some of the important terminal points. Other points are grouped with these, and the same rate is made thereto.

It will be observed that this adjustment is applied as far west as St. Paul, and that through rates are published by the rail-and-lake lines governed by the Official Classification, although a considerable portion of the territory involved lies wholly within Western Classification Territory.

In general, it may be stated that the rail-and-lake rates are certain arbitraries under the all-rail rates between the same points. This scale of differentials, however, is not the same in all cases, as it varies to a considerable degree as is indicated in Table 34.

The rates to Duluth are at present the same as the rail-and-lake rates to Chicago. These rates were established by the carriers under an order of the Interstate Commerce Commission resulting from a complaint made by the Commercial Club of Duluth that the then existing rates, which were made on a 6S-cent scale, were unduly prejudicial to the interests of Duluth and favored Chicago as a distributing point for northwestern territory at the expense of the Duluth interests.

In touching upon the adjustment employed in the establishment of rail-and-lake rates, the Commission called attention to the fact that in addition to the general investment in boats, wharves, and other property used in the service there are, of course, a number of special factors that properly enter into these rail-andlake rates that are not characteristic of all-rail rates. The capacity of the boat, for example, is necessarily an important element. Properly related to this is the depth of the channels through which the boat must pass—this controls its loading. The sufficiency and convenience of the wharf and dock facilities is another matter which must be considered. The character and condition of the

harbor and of the harbor entrance are of no less importance. The length of haul is entitled to some consideration, although mere distance, as all agree, has even less influence on a water rate than it has on a rail rate. The time taken in making the trip has some relation to the rate, although a difference of merely a few hours is not of great importance. A feature of more importance is the conditions of navigation with respect to the matter of storms, fogs, and similar perils that are incident to water transportation. And finally, as with all rates, the density of the traffic and the cost of operation must not be overlooked.

A comparison of the distance to Duluth with the distance to Chicago on traffic originating in the seaboard indicates that it is practically the same. As a matter of fact, the actual distance in favor of Chicago as reckoned from New York is but 96 miles.

The rates to Sault Sainte Marie, Mich., and to other points taking the same rates are the differentials shown in item 5 of Table 34 higher than the rail-and-lake rates from New York to Chicago.

The lake-and-rail rates to points south and west of Chicago shown in item 7 of the Table 34 are arbitraries under the all-rail rates to the same points.

### CHAPTER XXI

#### **DIFFERENTIAL RATES-Continued**

### LAKE-AND-RAIL RATES-Continued

The water-and-rail-rates from New York and from other points taking the same rates to Canadian percentage groups shown on Map 9, *Atlas of Railway Traffic Maps*, are set forth in Table 35.

#### TABLE 35

BASIS FOR RATES VIA WATER AND RAIL ON CLASSES FROM EASTERN GROUPS TO WESTERN POINTS SPECIFIED

Toppar	FROM NEW YORK RATE GROUP TO	RAT C	ES OR ENTS	DIE PER	TERE:	NTIAL Poun	S IN DS
LIEM	CANADIAN PERCENTAGE GROUPS			Cla	isses		
		1	2	3	4	5	6
	76C, 76D, 78C, 78D % points via water-and-rail lines via Long Island Sound, New London, Conn., or Bos- ton, Mass., or Portland, Me.	53.5	47.3	37	25.7	21.6	18.5
1	Points taking higher than 78% rates via water-and-rail lines via Long Island Sound, New London, Conn., or Boston, Mass., or Port- land, Me., are not less than on basis of the following differentials below standard all-rail-rates.	8	6	4	3	3	2

The rates from New York via the New York, Ontario & Western Railway via the Niagara Frontier are slightly less than the all-rail rates; thus, from New York to Canadian percentage groups, via Rouse's Point, the rates are not less than the standard all-rail rates. From New York points to points taking not higher than 78 per cent of the rates from New York to Chicago via water lines through Long Island Sound and New England ports, the rates are slightly less than the all-rail rates, as is shown by the

differentials in Table 35. To the Canadian percentage groups taking higher than 78 per cent of the rates from New York to Chicago via water lines through Long Island water routes and through New England ports, the rates are made certain differentials under the all-rail rates.

From Philadelphia and Baltimore via rail and lake to all destination groups named in Table 35, except in Canadian percentage territory, the rail-and-lake rates are regular Philadelphia and Baltimore differentials under the rail-and-lake rates from New York to the same points. The Philadelphia and Baltimore differentials are based on the 6-cent scale and 8-cent scale respectively, as shown in items 8 and 9 of Table 34.

From certain points in the vicinity of New York to certain groups in Central Freight Association Territory, rail-and-lake differentials are the scales shown in Table 34. These scales are lower than the regular scale applying from New York proper.

# RAIL-AND-LAKE AND RAIL-LAKE-AND-RAIL RATES FROM C. F. A. TERRITORY

The basis for rates from C. F. A. Territory to Lake Huron, Lake Superior, and Lake Michigan ports, and also to Detroit, Port Huron, St. Paul, and points taking the same rates is set forth in Table 36. For rates between these points C. F. A. Territory is divided into the following groups:

AkronOhio	Indianapolis Ind.	New Philadelphia
Beaver	Jeffersonville Ind.	Ohio
Cambridge Ohio	LouisvilleKy.	OrrvilleOhio
Canal DoverOhio	Mahoning and Shen-	ParkersburgW. Va.
Canton Ohio	ango Valley	PittsburghPa.
CincinnatiOhio	Points Ohio-Pa.	Springfield Ohio
ColumbusOhio	MariettaOhio	Steubenville Ohio
DavtonOhio	Massillon Ohio	ToledoOhio
Ellwood CityPa.	New AlbanyInd.	Wheeling W. Va.
Evansville Ind.	New Comerstown	ZanesvilleOhio
Hamilton Ohio	Ohio	

From C. F. A. Territory to a number of the groups the rates are made by a combination of the local rates to and from the Lake Erie ports, observing the rail-and-lake rates from Baltimore, Md., as maxima. From C. F. A. Territory to other groups the rates are usually certain differentials under the all-rail rates, subject in some cases to the combination of local rates to and from Lake Erie ports and the rail-and-lake rates from Baltimore, Md., as maxima.

#### TABLE 36

BASIS FOR RATES VIA RAIL AND LAKE AND VIA RAIL, LAKE, AND RAIL FROM C. F. A. TERRITORY TO LAKE HURON, LAKE MICHIGAN, AND LAKE SUPERIOR PORTS, ST. PAUL, AND POINTS TAKING THE SAME RATES¹

	1	Dn	FERE	NTIA	LS I	N CE	INTS	
W2	FROM C. F. A. TER-	1	PER	100	Pou	NDS		1
[T]	RITORY TO			Cla	sses			REMARKS
	1	1	2	3	4	5	6	
1	Alpena (Au Sable, Oscada, Harris- ville, and Alpena. Mich.)		•••	i.	••			Combination of local rates to and from Lake Eric ports, observing the rail-and-lake rates from Baltimore, Md., to Sault Ste. Marie, Mich., as maxima
3	Bay City (Bay City, Saginaw, La Peer, and Flint, Mich.)	3	3	3	2	1	1	Less than all-rail rates
3	Cheboygan (Mich.)²		•••	••	•••	• •	• •	Combination of loeal rates to and from Lake Erie ports, observing the rail-and-lake rates from Baltimore, Md., as maxima
+	Detroit (Detroit and Sugar Island Park, Mich:)	3	3	3	2	1	1	Less than all-rail rates
5	Duluth (Minn.)*							Combination of local rates to and from Lake Erie ports, observing the rail-and-lake rates from Baltimore, Md., as maxima

#### TABLE 36—Continued

#### BASIS FOR RATES VIA RAIL AND LAKE AND VIA RAIL, LAKE, AND RAIL FROM C. F. A. TERRITORY TO LAKE HURON, LAKE MICHIGAN, AND LAKE SUPERIOR PORTS, ST. PAUL, AND POINTS TAKING THE SAME RATES

WELL.	FROM C. F. A. TER- RITORY TO	Dıf	FERE: PER	NTIA 100 Clas	LS IN POUR	CE: NDS	NTS	Remarks
-		1	2	3	4	5	6	
6	Gladstone (Mich.)			•••				Combination of local rates to and from Lake Eric ports, observing the rail-and-lake rates from Baltimore, Md., as maxima
7	Harbor Beach (Lex- ington, Port Sani- lae, Forester, Har- bor Beach, and Port Hope, Mich.)	3	3	3	2	1	1	Less than all-rail rates, subject to combination of local rates to and from Lake Erie ports and rail-and-lake rates from Baltimore, Md., as maxima
8	Port Huron (Marine City. St. Clair. Port Huron. Sar- nia, and South Port Huron. Mich.)							All-rail rates, subject to rail-and-lake rates to Bay City, Mich., as maxima
9	St. Paul (Minn.)4	10	10	10	5	5	5	Less than all-rail rates
10	Sault Ste. Marie (Mich.) ⁶						÷ .	Combination of local rates to and from Lake Eric ports, observing the rail-and-lake rates from Baltimore, Md., as maxima

² The groups of C. F. A. Territory are shown on page 238. ² Glen Haven, Glen Arbor, South Manitou, North Manitou, Leland, North-port, Omena, Suttons Bay, Traverse Bay, Elk Rapids, Old Mission, Norwood, Charlevoix, Ironton, South Arm, East Jordan, Boyne City, Petoskey, Harbor Springs, St. James, St. Ignace, Rogers City, Cheboygan, and Mackinac Island, Mich., except that when via the C. & D. Tr. Co., St. Ignace and Mackinac Island, Mich., take Sault Ste. Marie rates. ³ Duluth and Superior, Wis., points on shore of Lake Superior from Superior, Wis., to but not including Ashland, Wis., territory, lying north of line of the C. & N. W. Ry., Ashland to Saxon, Wis.; thence territory north of the line of the D. S. S. & A. Ry., Saxon, Wis., to Marquette, Mich.; thence all points on shore of Lake Superior to but not including Sault Ste. Marie, Mich., also Sault Ste. Marie, Ft. Williams, and Port Arthur, Ont. ⁴ East of the Mississippi River, Minneapolis, Minn., to La Crosse, Wis., in-cluding South St. Paul, Red Wing, St. Louis Park, Hopkins, and Winona, Minn.; thence on and north of the line of the C. M. & St. P. Ry., through Portage, Wis.; thence on and west of the line of the M. St. P. & S. S. M. Ry., to Fond du Lac, Wis.; thence on, north, and west of the line of the C. & N. W. Ry., through Sheboygan, Wis.; to Manitowoc, Wis.; thence on and south of the line of the St. P. & S. S. M. Ry., to Green Bay, Wis.; including stations

Green Bay to Kewaunee, Wis. on the R. G. B. & W. R. R.: thence on and west of the west shore of Green Bay and north bank of the Menominee River to Menominee, Mich.: thence on west, and north of the line of the C. & N. W. to Narenta, Mich.: thence north of an imaginary line to Larch, Mich. (M. St. P. & S. S. M. Ry.), including stations west thereof on the M. St. P. & S. S. M. Ry.; thence via an imaginary line to a point west of Alecto, Mich., on the C. & N. W. Ry.; thence on and west of the line of the Superior to the city limits of Superior, Wis.; thence south of the shore of Lake Superior to the city limits of Superior, Wis.; thence south of the corporation boundaries of Superior, Wis., to a point whence an imaginary line drawn westward to Cloquet, Minn., will include Summit, Minn., on the Northern Pacific Ry.; thence on and east of the line of the Northern Pacific Ry.; to Minneapolis, Minn, the point of beginning. ⁶ Stations on the M. St. P. & S. S. M. Ry., Masonville to Sault Ste. Marie, Mich.; Detour, Mich., via the Arnold Transit Co.; Mackinac Island and St. Ignace, Mich., via the C. & D. Tr. Co.

The rates presented in Table 36 are fixed via the shorter or more direct routes, but apply also via the longer or more circuitous routes. The lines that comprise the shorter or more direct routes from and to some groups are the longer and more circuitous routes from and to other groups, and the fourth section of the Act to Regulate Commerce is violated in many cases via the circuitous routes.

# OCEAN-RAIL-AND-LAKE RATES

Certain traffic is carried from New York via ocean-railand-lake routes. The principal route of this character is from New York via Long Island Sound to New London, thence via rail to Georgian Bay, and thence via lake. The scale of rates via this route from New York to Chicago is shown in Table 14 and is established on a stated differential lower than the rates of the standard rail-and-lake routes.

Another route is that from Boston, Mass., or Providence, R. I., via Merchants & Miners Transportation Company (ocean route) to Baltimore, thence via rail to Sandusky, Ohio, and Ashley & Dustin Steamer Line to Detroit, or via rail to Cleveland, and Detroit and Cleveland Navigation Company to Detroit.

Rates via this route are the following differentials below the Boston-to-Detroit all-rail rates:

Classes Cents per 100 lbs	$\frac{1}{15.5}$	$\frac{2}{12.3}$	3 9	$\frac{4}{7.7}$	$\frac{5}{6.6}$	$\frac{6}{3.5}$
				1 - 1	0.0	0.1)

## RIVER-CANAL-AND-LAKE RATES

The Erie Canal, begun in 1816 and completed in 1825, represented at that time an initial cost of \$7,602,000. Up to and including 1896, it was estimated that the cost of construction, upkeep, and improvements aggregated \$52,540,000. So effective did this agency prove in the past decades, as a transportation medium, that the question of its improvement was put to popular vote and a vast appropriation was authorized to improve the canal to enable vessels of one thousand to twelve hundred tons capacity to use it. This work is rapidly nearing completion.

With the resumption of independent water line competition on the Great Lakes it may reasonably be inferred that the Erie Canal will be similarly favored. No through rates have been in effect for a number of years by independent water lines. The New York & Western Canal Line, Inc., of New York, however, published for the season of 1916, the following rates from New York to western destinations:

FROM NEW YORK TO Utica, N. Y Syracuse, N. Y	RAT	ES IN	Cents	PER 1	00 Pot	INDS					
	Classes										
	1	2	3	4	5	6					
Utica, N. Y	17	15	14	12	11	10					
Syracuse, N. Y.	20	18	15	12	11	10					
Buffalo, N. Y.	21	19	15	12	11	10					
Cleveland, Ohio	40	35	28	19	17	15					
Detroit, Mich	41	37	29	20	17	16					

The foregoing rates are not made on a fixed basis. This company has not extended service, at this writing, to Lake Michigan and Lake Superior ports, but it is its intention to do so. The canal-and-lake rates to Cleveland and Detroit are much less than the rail-and-lake rates, and the service provided by the all-water route compares favorably with that of the rail-and-lake service. Whether or not there is any traffic on the Erie Canal, the potential competition is of incalculable value since any considerable increase in rail charges causes the competition to become sufficiently active and aggressive to divert the tonnage from the rail lines.

There are numerous other artificial waterway projects under consideration, among the important ones are a 9-foot stage of water on the Ohio and Mississippi rivers and a proposed canal which would connect the Ohio River with Lake Erie, and run along the eastern part of the state of Ohio thus serving as an outlet to the Pittsburgh district.

#### TEST QUESTIONS

These questions are for the student to use in testing his knowledge of the assignment. The answers are not to be sent to the University.

1. Define the term "short-haul points."

2. At the present time does the same rule for the disposition of fractions apply in computing both eastbound and westbound rates?

3. Are the outlines of the percentage groups the same for both eastbound and westbound traffic?

4. How do the rates from Chicago to the Virginia Cities compare with the Chicago-to-Baltimore rates?

5. What minimum rate must be observed in constructing rates from percentage groups to Rockland, Me.?

6. How are rates from the 60 per cent group to Cumberland, Md., constructed?

7. What condition is established in connection with the construction of rates to the Virginia Cities from points taking less than 77 per cent of the Chicago-New York rates?

8. How do the class rates from Chicago to Boston compare with the rates in the reverse direction?

9. What arguments may be advanced to substantiate the disparity between the eastbound adjustment and the westbound adjustment?

10. As concerns New England, how does the Interstate Commerce Commission view the propriety of the existing rate adjustment?

11. Enumerate the more important interior eastern basing points.

12. How does the eastbound commodity-rate adjustment correspond with the adjustment obtaining in connection with the establishment of class rates?

13. When the commodity rate is not the same as the class rate, how would you determine the proper differential to be added or to be deducted?

14. Illustrate the construction of a commodity rate from Cincinnati to New York, on the basis of a rate of 21 cents from Chicago to New York.

15. On the basis of 33 cents, Chicago to New York, what will be the corresponding rate from East St. Louis to Albany?

16. How do you view the propriety of making rates "what the traffic will bear"?

17. On what basis must the rates on grain be adjusted?

18. What is accomplished through the establishment of low commodity rates?

19. On what basis may the distinction in rates applicable on grain as compared with those on grain products be defined?

20. What competing factors influence the adjustment of rates on grain and grain products from points in Central Freight Association Territory to the Atlantic scaboard?

21. Is the adjustment widely different from that applicable on general commodities?

22. What is the reshipping rate on domestic grain from Chicago to New York?

23. What is the reshipping rate on grain for export from Chicago to Baltimore?

24. Do Boston, Mass., and New York, N. Y., compete on the same basis for export grain trade?

25. For what purpose are reshipping rates established?

26. What is the necessity of the varying percentages established in connection with the adjustment of rates obtaining from the 60 per cent group?

27. What is the adjustment for the establishment of rates from Dunkirk, N. Y., to Albany, N. Y., and points basing thereon ?

28. In what manner do the rates on dressed meat and live stock influence each other?

29. What class of goods is included in the designation, packing-house products?

30. What prime factors are to be considered in the establishment of rates on live stock?

31. Illustrate the construction of rates on dressed meats from Peoria to Syracuse.

32. What class of iron and steel articles are generally accorded specific rate adjustments?

33. What is the basing rate applicable on pig iron?

34. How are the rates on iron and steel articles from the Pittsburgh district to Boston constructed?

35. How do the rates from Youngstown compare with these?

36. How are the rates from Cleveland to Albany constructed?

37. Name several of the differential routes available between Chicago and New York.

38. What is the character of the traffic handled by the lake lines?

39. What is the principal item of tonnage?

40. On what scale of differentials are lake-and-rail rates established from Chicago to New York?

41. What are the class rates from New York to Canadian percentage group 76-C via water-and-rail routes?

42. How are the lake-and-rail rates to St. Paul, Minn., from Central Freight Association adjusted with respect to the all-rail rates?

43. How does the river-canal-and-lake rate on first-class traffic from New York to Detroit compare with the all-rail rates?

44. Is the lake-and-rail service available to shippers at all times?

### CHAPTER XXII

### WESTERN TERMINI ADJUSTMENT

RATES TO AND FROM WESTERN TERMINI POINTS

The Western Termini Points, of which Buffalo, N. Y., Oil City, Pa., Pittsburgh, Pa., Wheeling, W. Va., Charleston, W. V., and Ashland, Ky., are the more important, originally marked the western termini of the "Eastern Trunk Lines," namely, The New York Central Railroad, the Erie Railroad, the Pennsylvania Railroad, the Baltimore & Ohio Railroad, and the Chesapeake & Ohio Railway. In the early days the Western Termini Points as such gained considerable prominence as jobbing centers from which goods were distributed to the then undeveloped Middle West. At the present time, these points also represent the eastern termini of many Central Freight Association roads, and owing to the fact that a different adjustment of rates applies between points in Trunk Line Territory, on the one hand, and in Central Freight Association Territory, on the other, it has been necessary to design a special adjustment in construction of rates which eliminates, as far as possible, abrupt breaks in the intraterritorial rate adjustment.

This particular zone is an intensified manufacturing district, and from Buffalo on the north to Charleston, W. Va., on the south, traffic of various kinds moves in immense quantities. Competition in various localities with the principal termini points has led to the establishment of the termini adjustment to other points, and as a result the tariffs of the individual lines name many points other than the termini points proper to which application of termini rates is authorized.

To exemplify this adjustment, the construction of rates to Buffalo, N. Y., and Pittsburgh, Pa., may be taken as typical, and accordingly in Table 37 have been reproduced some of the rates applicable from some of the more important common points on the line of the New York Central Railroad (formerly the Lake Shore & Michigan Southern Railway) to Buffalo, N. Y., and to Pittsburgh,

### TABLE 37

CLASS RATES FROM CENTRAL FREIGHT ASSOCIATION POINTS TO BUFFALO, N. Y., AND PITTSBURGH, PA.

20			Bru	TO		v		PITTSBURGH, PA.											
- H			DUI	MET	, <u>1</u> .	1.			1111	5501									
ES	FROM	R	ATES	INC	ENTS	PER		R	ATES	INC	ENTS	PER							
J.A	I KOA		10	N PO	UNDS				1	10 PO	UNDS								
12				Clas	ses				(	Class	ses								
RH.		1	2	3	4	5	6	1	2	3	4	5	6						
10	Dunkirk																		
-10	NY	96.5	995	18	13.5	9.5	7.5	195	41	32.5	24.5	17	13.5						
58	Westfield.	20.0	~~.0	10	20.0			10.0	1.	02.0									
00	N. Y	30	25.5	20	15	10.5	8.5	48.5	41	32.5	24.5	17	13.5						
73	North East,	0.						10.0											
	Pa	31.5	27	21	16	11	9	48.5	41	32.5	24.5	17	13.5						
88	Erie,											- 0							
	Pa	33.5	28.5	22.5	17	11.5	9.5	45	38.5	30	22.5	16	12.5						
103	NGirard,			~ .			-			01 8			0						
	Pa	35.5	30	24	18	12.5	10	33.5	28.5	21.5	19	11.9	9						
183	Cleveland,	0.5	00 5	00 "	10	1.9	10	00 5	00 F	91 5	15	115	Q						
	Onio	35	30.5	23.5	10	19	10	33.0	28.9	÷1.0	10	11.0	3						
208	Dhio	12	26.5	97.5	19	15	12	25.5	30	93	15.5	12.5	9.5						
949	Sandusky.	40	50.0	21.0	10	10	1.0	00.0	00		10.0	12.0	0.0						
240	Ohio	47.5	40	30.5	21	16.5	13	52	44	34	24.5	19.5	15.5						
296	Toledo.	11.0	10	0010															
200	Ohio	41.5	36	27.5	19.5.	15.5	12.5	42	35.5	27.5	18.5	14.5	11.5						
361	Detroit,																		
	Mich.	42	35.5	27.5	18.5	14.5	11.5	45	38	29.5	20	16	13						
350	Bryan,				~~ ~						10 5		10 5						
	Ohio	46	39	30.5	20.5	16.5	13.5	44	37	29	19.5	•15.5	12.5						
329	Adrian,	4.4	07	9.0	10 5	155	19 5	4.4	97	20	10.5	15.5	195						
100	Mich.	44	31	49	19.0	10.0	12.0	44	34	45	19.0	10.0	12.0						
408	Mich	17	40	21.5	91.5	17	14	47	40	31.5	21.5	17	14						
154	So Bend		-10	01.0	41.0	11	11	- 7.1	10	01.0	21.0								
TUT	Ind	50	42.5	33.5	23	18.5	15.5	45	38	29.5	20	16	13						
481	LaPorte.					2.510		- 0											
	Ind	61	52	41	30.5	21.5	17	61	52	41	30.5	21.5	17						
540	Chicago,								~~~~										
	III	62	52.5	41.5	31	21.5	17.5	62	52.5	41.5	31	21.5	17.5						

Pa., as well as the distance such points are removed from Buffalo.

It will be noted from the foregoing table that, from the short-haul points, the rates to Buffalo (owing to the fact that the distance is so much less than to Pittsburgh) are lower than to Pittsburgh, but as the points of origin become more and more distant the rates to Pittsburgh and to Buffalo are the same although the mileage to one or the other of these points might be such as to warrant the application of a lower scale to such points.

To place these points on an equality, however, it has long been the custom to make the rates to or from all of them the same where the distance was such as not to involve the integrity of the Central Freight Association scale, as far as rates to or from intermediate points in Central Freight Association Territory might be concerned. Consequently, throughout that part of Central Freight Association Territory lying east of the Indiana-Illinois state line, the Central Freight Association scale adjusted to distance via reasonably workable routes is applied in the construction of rates to the various Western Termini Points. As far, however, as Ashland, Ky., and Charleston, W. Va., are concerned, lower rates are sometimes named, especially from the southern part of the territory, to Ashland on the one hand, and higher rates to Charleston on the other, which is occasioned by the lack of competition in so far as the production of certain commodities and the movement of other traffic is concerned.

From the territory lying beyond, and including, the 100 per cent group the rates to the Western Termini Points are made on a percentage relationship using Chicago-to-New York rates as basing factors. The current adjustment, in so far as class rates are concerned, is set forth in Table 38.¹

¹ At the time of revision of this treatise the current rates are at variance with the basis because the carriers have increased the rates between the points mentioned by adding 25% to the rates rather than by taking the various percentages of the new base rates. It is presumed that the interested carriers will restore rates on the old basis, that is, will again establish the percentage relationship.

#### TABLE 38

#### BASIS FOR CLASS RATES BETWEEN THE WESTERN TERMINI AND PERCENTAGE GROUPS 100-120 IN CENTRAL FREIGHT ASSOCIATION TERRITORY 1

	A PARTY AND AN A PARTY AND AN A PARTY AND A PA		
Points on Map 4 taking 100 p of the rates from Chicago	per cent or higher to New York	Per cent o centage gro	f rates from per oups to New York
100 per cont			60
() and including 11	A summer summer set		69
over 100 to and including 110	per cent		04
Over 110 to and including 110	i per cent		64
117 per cent			$64\frac{1}{2}$
Over 117 to and including 12	) per cent ²		70
Section of the Act to Regulat ² Except that to and from the same rates, the rates are of those between Chicago and Benton, Ill. Brooklyn, Ill. Carbondale, Ill. Carbondale, Ill. Chester, Ill. Coulterville, Ill. DuQuoin, Ill. East Cape Girardeau, Ill. While rates between the Wo 64½ per cent of New York Cairo, Ill. Henderson, Ky. Owensboro, Ky. Thebes, Ill.	je Commerce. points listed below eastbound, 64 per New York. Eldorado, Ill. Enfield, Ill. Gale, Ill. Marion, Ill. Mound City, Ill. Murphysboro, Ill. Norris, Ill. Paducah, Ky. estern Termini au rates.	r and statio cent, westb Park Perc Pinci Shaw Spar Tam 1d points r	ns usually taking ound, 70 per cent er City, Ill. kneyville, Ill. kneyville, Ill. kneyville, Ill. ta, Ill. aroa, Ill. named below are

It is necessary in the application of this adjustment to construct the rates from the required percentage groups in question to New York and then to apply to the base rate thus determined, the percentages shown in the above table applying from the corresponding groups.

For example, if class rates were desired from the 110 per cent group to the Western Termini Points, the rates from the 110 per cent group to New York would first be constructed, resulting in the following:

Classes		2	3	4	5	6
Rates	99	87 '	66	46	40	33

From these rates, then, 62 per cent should be figured, according to Table 38, and the result, which is as follows:

Classes	1	2	3	-4	5	6
Rates	61.5	54	41	28.5	24.5	20.5

250

would be the rates to all of the Western Termini Points from Ashland, Ky., on the south, to Buffalo, N. Y., on the north, from the 110 per cent group.

So likewise, the rates from Chicago to Pittsburgh are made 60 per cent of the rates from Chicago to New York. The rates from Evansville, Ind., to Buffalo are 62 per cent of the rates from Evansville to New York, and the same rates apply westbound. The rates from Evansville, Ind., to New York are 105 per cent of the rates from Chicago to New York. The westbound rates from New York to Evansville are 110 per cent of the rates from New York to Chicago, as shown on Map 3 in *Atlas* of *Railway Traffic Maps*. This 110 per cent of the New York-to-Chicago rate is not used as a basis for class rates from the Western Termini Points to Evansville as the adjustment obtained under the application of the eastbound New York rates is applied in both directions.

# GENERAL COMMODITY RATES

Rates on general commodities that take rates of 26.3 cents per 100 pounds or higher, are made under the same formula that is applied in the establishment of class rates. In other words, on such commodities, the basis set forth in Table 38 is to be used, with this exception, that on eastbound traffic, rates are based on eastbound rates and percentage groups, and on westbound traffic, on westbound rates and percentage groups.

This is necessary owing to the dissimilarity of freight traffic movement. The preponderance of tonnage eastbound is confined to crude and raw materials, agricultural products, live stock, and lumber while the westbound movement is, to a large extent, of textiles, machinery, and other manufactures, and under the foregoing, if a commodity takes a rate of 40 cents per 100 pounds between Chicago and New York, the rate from Evansville to New York is 105 per cent of 40, or 42 cents; whereas the rate from New York to Evansville is 110 per cent of the rate from New York to Chicago, or 44 cents, and the rates on the commodity adjustment from or to Western Termini Points would be adjusted on these figures according to the direction of the movement.

As concerns commodities bearing a rate of less than 26.3 cents per 100 pounds, they are established under an adjustment which is proportionately higher than the class-rate adjustment between percentage points in the 100 to 120 per cent groups, inclusive, and the current basis has been reproduced in the following table.

#### TABLE 39

Basis for Commodity Rates Between the Western Termini and Percentage Groups 100-120 for Commodities on Which the New York-Chicago Rates are Less Than 26.3 Cents per 100 Pounds

Points taking percentages shown below of the rates from Chicago to New York or from New York to Chicago	Per cent of rates to or from New York
110 per cent Over 100 to and including 110 per cent Over 110 to and including 117 per cent Over 117 to and including 125 per cent ¹	$\begin{array}{c} 62\frac{1}{6}\\ 64\frac{1}{2}\\ 66\frac{1}{2}\\ 72\frac{1}{3}\end{array}$

¹ Except that between points listed in footnote 2 of Table 38 and Western Termini the rates are 66½ per cent of those to or from New York. But on westbound traffic, to all points in said footnote, except Cairo, Ill., Henderson and Owensboro, Ky., and Thebes, Ill., rates are made 72 per cent of New York-to-Chicago rates.

Rates between the percentage points shown in Table 39 and the Western Termini Points are, as before stated, based on the rates applicable either from or to New York. That is, if the rates were desired from Buffalo to Springfield, Ill., the basing rates would be the rates on the same commodity from New York to Springfield. Whereas if the rates were desired in the opposite direction, the rates from Springfield to New York would be employed in connection with the percentages. It will be recalled that the rates on live stock to eastern cities from percentage groups lying west of the Indiana-Illinois state line were made certain arbitraries over the rates on like traffic from Chicago to the same eastern cities. For example, the rate from St. Louis, a 117 per cent point, to New York on horses would be made by adding a 5-cent arbitrary to the basing rate of 74 cents, resulting in 79 cents as the rate from East St. Louis to New York, and if, under the foregoing, it were desired to construct the rate on horses to the Western Termini Points, the commodity rate being higher than 26.3 cents, the formula in Table 38 would be employed, and as a final result, 50.95 cents, or 51 cents would be obtained as the rate on horses from East St. Louis to any of the Western Termini Points.

If, on the other hand, a commodity rate were established between Chicago and New York which was less than the 26.3 cents per 100 pounds, Table 39 would be used. Consequently, in the construction of commodity rates, two things must be borne in mind, namely, the basing rate and the direction of the movement.

If a commodity rate is authorized between Chicago and the Western Termini of trunk lines as a basing rate which is not the same as the established class rate between the same points, the same percentage of reduction is made between other points taking 100 per cent or less, on the one hand, and Western Termini Points on the other, as between Chicago and the Western Termini. If, however, a duly authorized commodity rate is made applicable only between specified points and not as a basing rate, it is not applied to or from the Western Termini Points. It might so happen, for example, that there be a movement of a certain class of traffic or of a certain commodity to only one of the termini points and there is no logical reason therefore to extend its application to other termini points thereby burdening the tariff

publications of the carriers with a lot of unnecessary or "paper" rates.

### RATES ON GRAIN AND GRAIN PRODUCTS

To feed the industrial population of this district, vast quantities of foodstuffs are required, and rather than establish a special adjustment to the Western Termini Points, rates on both grain and grain products are made, to a great extent, with relation to existing class rates, the authorized basis being, at this time, that on both grain and grain products rates are to be 86.66 per cent of the existing sixth-class rate from the same point of origin to destination. In some few instances, specific rates on a lower basis are established by carriers to offset the disadvantage of location in so far as one or more of the mills on their line may be concerned, which as a general rule, will be found to be on the basis set forth above.

### RATES ON LIVE STOCK AND DRESSED MEATS

Likewise no formula is announced for the construction of rates on live stock or dressed meats, rates applicable thereon being made in accordance with the principles obtaining in the class-rate adjustments. Rates are established from some of the primary markets, such as Cincinnati, Indianapolis, Chicago, and St. Louis which, in some cases, in accordance with the mileage scale prescribed by the Interstate Commerce Commission, are slightly lower than the rates that would obtain under the application of the classification basis.

### RATES ON IRON AND STEEL ARTICLES

As to these articles, this district is a producer rather than a consumer, although quantities of crude iron, etc., are transported through Official Classification Territory for smelting and working. No general basis has been authorized for the construction of rates, and as a general rule, the general commodity adjustment is applied, except in such instances where it is necessary to establish specific rates to overcome competitive influences.

### CHAPTER XXIII

#### WESTERN TERMINI ADJUSTMENT-Continued

RATES TO POINTS ADJUSTED WITH REFERENCE TO WESTERN TERMINI POINTS

As before stated, while many points in this district have been accorded the termini adjustment, there are other points the location of which is such as not to warrant the application of the termini adjustment proper, and as a result, rates thereto or therefrom are made on an arbitrary relationship, the arbitrary indicating, as far as it is possible by this medium, the disadvantage of location.

Within recent years, additional groups have been established by several of the trunk lines, among the more important of which may be mentioned, Belle Vernon, Bessemer, Blairsville, Connellsville, Crabtree, Driftwood, Du Bois, Elizabeth, Indiana, Johnstown, Kittanning, Lekrone, and Oil City, Pa.

To illustrate the present adjustment of rates to some of these points, it is well to consider the current basis as set forth in the bases for rate construction to points in these groups as announced by the terminal lines.¹

In announcing this adjustment, the terminal lines, through the medium of the Central Freight Association,

¹ The following data (except for Blairsville, Driftwood, DuBois, Kittanning, and Oil City) is taken from Circular No. 785 issued by the Baltimore & Ohio Railroad and is authentic only as to the interest of the issuing company. The exceptions are covered by the provisions of Circular No. 10 issued for the Pennsylvania Lines West of Pittsburgh, by Eugene Couffer, Chief of Tariff Bureau, and the same statement as to authenticity is applicable in this connection, the two issues conflicting in minor detail.

divided the territory, as to points of origin, into two groups, which are defined as follows: Group A—all points east of a line drawn from Sandusky through Monroeville, Chicago Junction, Plymouth, Shelby, Mansfield, Mount Vernon, Newark, Thornville, New Lexington, Corning, and Athens, Ohio, to the Ohio River at Pomeroy (See Map 4 Atlas of Railway Traffic Maps). Group B all points on and west of the above line.

Belle Vernon, Pa.—From points in group A, specific rates have been named, these rates to a great extent respecting the distance principle employed in establishing rates from and to western termini points under the application of the Central Freight Association scale.

Commodity rates are such as are announced in Central Freight Association circulars issued from time to time.

From group B, Pittsburgh rates should be applied to Belle Vernon, Pa., on both classified and commodity traffic.

Bessemer, Pa.—The same basis of rates is applicable to this point as obtains to Belle Vernon.

Blairsville, Pa.—From points in group A, such class and commodity rates as are announced through the Central Freight Association from time to time will be applied.

From group B, class and commodity rates will be established by the addition of the following arbitraries in cents per 100 pounds governed by the same minimum weight, classification rating, and rules and regulations, or exceptions thereto, as apply to the rate to Pittsburgh:

						Iron & Ste	el Articles
Classes 1	2	3	4	5	6	C. L.	L. C. L.
Rates7½	$5\frac{1}{2}$	$3\frac{1}{2}$	3	$2\frac{1}{2}$	2	11/2	2

The Baltimore rates are to be observed as maximum rates except on traffic originating south of the Ohio River and east of that portion of the Mississippi River extend-

ing from Cairo, Ill., to New Orleans, La. On such traffic, there will be no deviation from the basis shown.

Connellsville, Pa.—From group A, class and commodity rates will be as named in Central Freight Association circulars issued from time to time. In the absence of such rates, commodity rates will be made by the addition of the arbitraries shown below, applying from group B to the rates current to Pittsburgh, Pa.

From group B, rates will be established by the addition of the following arbitraries, in cents per 100 pounds, governed by the same minimum weight and classification rating, and rules and regulations or exceptions thereto, as apply over the rates to Pittsburgh:

							Iron & Sto	el Articles
Classes	1	2	3	4	5	6	C. L.	L. C. L.
Rates	Ð.	4	3	2	2	2	$1\frac{1}{2}$	2

Cumberland, Md., rates to be observed as maximum.

Driftwood, Pa.—From group A, class and commodity rates will be as named in Central Freight Association. circulars issued from time to time.

From group B, class and commodity rates will be established on same basis as maintained from the same points of origin to Baltimore, Md.

Du Bois, Pa.—From group A, class and commodity rates will be as named in Central Freight Association circulars issued from time to time, except that from certain points in 60 per cent territory, the current rate from the same point to Buffalo, N. Y., will be applied to Du Bois, Pa.

From group B, class and commodity rates will be the same as those currently maintained and in effect to Rochester, N. Y.

*Elizabeth, Pa.*—From group A, class and commodity rates will be as named in Central Freight Association circulars issued from time to time. From group B, such rates as are currently in effect and apply to Pittsburgh will be applied to Elizabeth.

*Grafton, W. Va.*—From group A, class and commodity rates will be as announced in Central Freight Association circulars issued from time to time.

From group B, class and commodity rates will be established by the addition of the following arbitraries in cents per 100 pounds, governed by the Official Classification to the rates currently in effect to Pittsburgh:

							Iron & Steel Article	s
Classes .	1	2	3	4	5	6	C. L. L. C. L.	
Rates	.j	4	3	2	2	2	$1\frac{1}{2}$ 2	

observing rates from the 60 per cent group to Baltimore as minimum rates.

Indiana, Pa.—From group A, class rates will be as named in Central Freight Association circulars. Commodity rates will be made the arbitraries noted below in addition to the current rates applicable to Pittsburgh, Pa.

From group B, class and commodity rates will be the Pittsburgh rates plus the following arbitraries in cents per 100 pounds:

						-Iron & Ste	el Article	S
Classes . 1	2	3	4	5	6	C. L.	L. C. L.	
Rates 10	8	6	5	4	- 3	11/2	2	

the Cumberland rates to be observed as maximum rates.

Johnstown, Pa.—From group A, class rates will be as named in the circulars of the Central Freight Association issued from time to time. Commodity rates will be the arbitraries noted below in addition to the rates current to Pittsburgh, Pa.

From group B, class and commodity rates will be the Pittsburgh rates plus the following arbitraries in cents per 100 pounds:

	-					Iron & Sto	eel Articles
Classes . 1	2	3	-4	.5	6	C. L.	L. C. L.
Rates 10	8	6	.5	4	3	11/2	2

the Baltimore rates to be observed as maximum rates.

*Kittanning, Pa.*—From group A, class and commodity rates will be as announced in Central Freight Association circulars issued from time to time.

From group B, the rates currently in effect to Pittsburgh, Pa., will be applied to Kittanning, Pa.

Lekrone, Pa.—From points in group A, class and commodity rates will be the same as those announced in Central Freight Association circulars issued from time to time. Commodity rates will be the arbitraries noted below in addition to the rates currently in effect to Pittsburgh, Pa.

From group B, class and commodity rates will be established which are the Pittsburgh rates plus the following arbitraries in cents per 100 pounds:

							Iron & Ste	el Articles
Classes .	1	2	3	4	.,	6	C. L.	L. C. L.
Rates	õ	4.	3	2	2	2	114	2

the Cumberland rates to be observed as maximum rates.

*Oil City, Pa.*—From group A, class and commodity rates will be the same as those announced in Central Freight Association circulars.

From group B, class and commodity rates will be the same as those established from Buffalo, N. Y., observing the rates from the same point of origin to Pittsburgh, Pa., as minimum.

## RULES GOVERNING THE ARBITRARIES UPON ARTICLES TAK-ING SPECIAL COMMODITY RATES TO THE FOREGOING BASE POINTS

(1) If the special or commodity rate is the same as the class rate between the same points, the arbitrary for such class rate will apply to the special or commodity rate.

(2) When the special or commodity rate is not the same as the standard class rate between the same points, the arbitrary to be used will be that applying to the class which the special or commodity rate most nearly approximates.

(3) When the special or commodity rate as nearly approximates one class as another, the arbitrary for the next higher class will be used.

(4) Where the arbitrary is the same to all classes, rates on articles classified higher than first class shall be constructed by using the Official Classification to the basing point and adding thereto the arbitrary.

(5) The foregoing rules will apply only where the specific arbitrary has not been provided.

Grain and Grain Products.—No special basis has been announced in connection with the construction of rates applicable on grain and grain products, and under the provision of the foregoing rule, rates to these points are constructed by the addition of the regular classification basis, as for example, rates to Grafton on grain and grain products will be made 2 cents over the Pittsburgh rate, Connellsville 2 cents, and Johnstown 3 cents above.

Live Stock.—Exceptions to the foregoing basis have been announced in connection with the transportation of live stock, and as specific arbitraries are not provided, the following class arbitraries will be used:

Horses	and	m	ule	s.	 			 														Class	$\overline{2}$
Sheep	and	ca	lve	s.				 				 								•		Class	3
Hogs .					 			 					• •	•			•				• •	Class	+
Cattle					 			 			,	 	•		• •		•	• •	 •	• •		Class	5

Rates to Chesapeake & Ohio Railway Stations.—Chesapeake & Ohio Railway also maintains some arbitrary adjustments with respect to points on its line which are made with respect to rates established to Ashland, Ky. The more important points are Huntington, Charleston, and Gauley Bridge, W. Va.

If a commodity rate, for example, be established from Chicago to Pittsburgh that is not the same as an established class rate from the same point of origin and if a corresponding reduction below the established class rate is to be made from all other Central Freight Association points, the same percentage adjustments are to be made to Huntington, Charleston, Gauley Bridge, and Parkersburg as are made to Pittsburgh from the same points of origin; that is, if a commodity rate of 25.2 cents is established from Chicago to Pittsburgh on an article classified as first-class in the Official Classification and the rates are to be established on a corresponding basis from other points in Central Freight Association Territory, the rates from the same points of origin to Charleston, Gauley Bridge, Huntington, and Parkersburg are reduced relatively.

From some percentage points taking higher than the 100 per cent basis, the rates are not based directly on the rates from Chicago to New York but are made by adding arbitraries to the Western Termini rates as illustrated in the preceding adjustment.

In connection with group A, it has not been possible to tabulate the many rates authorized by the Central Freight Association on classified traffic in a treatise of this character, since to do so would virtually amount to a reproduction of all of the tariffs obtaining in this particular territory which would serve no particular end and unduly burden the treatise.

A comparison of the bases set forth in these chapters with tariff publications of the carriers shows that to a very great degree the bases authorized are not disregarded but generally observed throughout the territory.
## CHAPTER XXIV

#### SPECIAL ADJUSTMENTS

## THE VIRGINIAN RAILWAY

The location of this line is such that it might reasonably be inferred that it could be governed, as far as its rates and fares are concerned, by the Southern Classification. Owing to the fact that it must compete for traffic, of which there is a considerable volume, with both the Chesapeake & Ohio Railway and Norfolk and Western Railway to and from the Virginia ports, it is necessary for it to apply the same medium and to adjust its rates on the same general basis as obtains in connection with the other roads.

The local traffic of the line consists largely of coal, a great portion of which is shipped to tidewater for exporor for distribution by means of vessel throughout the entire Atlantic Coast.

The latest available statistics of the Interstate Commerce Commission indicate that this line carried 4,410,-622 tons of revenue freight, the average return per ton per mile being .00343 cents, which is considerably less than the average for all railroads in the country (which is slightly in excess of 7 mills).

Coal needs low rates to stimulate its movement, and it is not surprising therefore that, as far as classified traffic is concerned, this road establishes the rates to the greater part of its line on local traffic on a somewhat higher basis than obtains with respect to business destined to competitive points, or to Virginia Gateways on business destined beyond.

For the purpose of enabling the reader to follow the adjustments, the map showing the location of this line and the stations thereon, has been incorporated in the treatise.

The basis to Virginian Railway stations as announced in Table 40 is set forth geographically, beginning at the western terminus, Deepwater, Va. It will be noted there are really two distinct bases—that for the percentage territory lying west of the Cleveland-Marietta-Belpre line as described in footnote 1 under Table 40 and that for the percentage territory lying east of the line.

To Roanoke, Norfolk, Sewalls Point, and Suffolk from all the territory both east and west of the lines mentioned, the rates are naturally the rates to Virginia Cities since these points constitute part of the groups known as "Virginia Common Points."

To Alberta, Brookneal, Jarratt, and Meherrin, Va., on shipments which are destined to southern points beyond, the rates to Virginia Cities are applied as proportional rates from the percentage territory which lies west of the lines described in footnote 1 under Table 40, including points which are located directly on that line. From points in the percentage territory lying east of the Cleveland-Marietta-Belpre line to other points on the Virginian Railway except (a) points east of Roanoke to, and including, Altavista and (b) points east of Altavista through, but not including, Suffolk, Va., and to, but not including. Norfolk, the rates are the same as currently applicable to those destinations from Baltimore, Md. To points covered by the last two exceptions noted above, the rates are made on the basis outlined in Table 40. It will be noted that this basis includes Alberta, Brookneal, Jarratt, and Meherrin, named above, on local shipments.

From points on the Cleveland-Marietta-Belpre line and from the percentage territory lying west thereof, the



same rates are made to Salem and to points east of Roanoke to, and including, Altavista, Va., as are made to Virginia Cities, while to other points the rates are made certain arbitraries in excess thereof, as noted in items 1, 2, and 6 of Table 40.

There are exceptions to the application of the basis set forth in Table 40. For example, in applying the rate basis in Table 40 on various commodities, it will be found through published tariffs, that on several commodities, such as bleach, brick, calcium chloride, sulphate, paper filler, soda ash, etc., the full sixth-class rate is charged owing to notice served by the terminal Virginia lines that they will not join in a lower basis, this rate being observed as a minimum rate.

This condition governs also rates on salt from wells in Michigan and Ohio, and a further condition governs rates on this commodity named proportionally to Virginia Gateways, such as Alberta, Brookneal, Jarratt, and Meherrin. These commodity rates are lower than the sixth-class rates (but somewhat higher than the rates to Virginia Cities, announced in item 7 of Table 40) because they are made necessary through competition with wells in the state of New York from which rates are based on

## TABLE 40

BASIS FOR RATES FROM PERCENTAGE GROUPS ON MAP 4 TO STA-TIONS ON THE VIRGINIAN RAILWAY

TTEM	To STATIONS	FROM POINTS IN PERCENTAGE TERRITORY	ARBITRABIES IN CENTS PER 100 POUNDS Classes 1 2 3 4 5 6	Remarks
1	First station south of Deep Water, W. Va.	On and <i>west</i> of the Cleveland- Marietta- Belpre line ¹	² 654322	Over rates to Vir- ginia Cities
	to, and includ- ing, Lester, W. Va.	East of Cleveland- Marietta- Belpre line ¹		Rates currently applicable from Baltimore to s a m e destina- tions

# SPECIAL ADJUSTMENTS

## TABLE 40—Continued

# BASIS FOR RATES FROM PERCENTAGE GROUPS ON MAP 4 TO STA-TIONS ON THE VIRGINIAN RAILWAY

ų		FROM POINTS IN	ARBITRARIES IN CENTS PER 100	
TEN	To Stations	PERCENTAGE	Pounds	Remarks
Ĥ		TERRITORY	Classes	
			$1 \ 2 \ 3 \ 4 \ 5 \ 6$	
	South and east of Lester, W. Va.	On and west of the Cleveland Marietta Belpre line ¹	² 12 10 8 7 6 5	Over rates to Vir- ginia Cities
2	to, but not in- cluding, Salem, Va.	East of Cleveland- M a r i e t t a - Belpre line ¹		Rates currently applicable from Baltimore to s a m e destina- tions
3	Salem, Va.	On and west of the Cleveland- Marietta- Belpre line ¹		Rates to Virginia Cities
		East of Cleveland- Marietta- Belpre line ¹		Current rates from Baltimore to Salem
4	Roanoke, Va.	All points in Cen- tral Freight As- sociation Terri- tory		Rates to Virginia Cities
5	East of Roanoke, Va., to, and in-	On and <i>west</i> of the Cleveland- Marietta- Belpre line ¹		Rates to Virginia Cities
	eluding, Alta- vista, Va.	East of Cleveland- M a r i e t t a - Belpre line ¹	⁸ 20 16 13 11 9 8 (Classes) A B C D E F H 7 8 7 7 9 14 11	Over eurrent rates to Vir- ginia Cities
_	East of Altavista, Va., through, but not includ- ing, Suffolk,	On and west of the Cleveland- Marietta- Belpre line ¹	°12 10 8 7 6 5	Over rates to Vir- ginia Cities
6	Va., to, but not including, Nor- folk, Va. (See item 7 for pro- portional basis to Alberta, Brookneal, Jarratt, and Meherrin, Va.)	East of Cleveland- Marietta- Belpre line ¹	³ 20 16 13 11 9 8 (Classes) A B C D E F H 7 8 7 7 9 14 11	Over current rates to Vir- ginia Cities

#### TABLE 40—Continued

#### BASIS FOR RATES FROM PERCENTAGE GROUPS ON MAP 4 TO STA-TIONS ON THE VIRGINIAN RAILWAY

ITEM	To STATIONS	From Points in Percentage Territory	Arbitraries in Cents per 100 Pounds Classes 1 2 3 4 5 6	Remarks
7	Alberta Va. Brookneal Va. Jarratt Va. Meberrin Va. on shipments destined be- yond.	On and west of the Cleveland- Marietta- Belpre line ¹		Rates to Virginia Cities'
8	NorfolkVa. Sewalls Point,Va. SuffolkVa.	All points in Cen- tral Freight As- sociation Terri- tory		Rates to Virginia Cities

¹ Description of Cleveland-Marietta-Eelpre line: Eeginning at, and in-cluding, Cleveland, Ohio; thence via, and including points on the Pennsyl-vania Lines West of Pittsburgh to, and including, Hudson, Ohio; thence via, and including points on, the C. A. & C. Ry, to, and including, Akron, Ohio; thence via, and including points on, the B. & O. R. R. to, and including Canton, Ohio; thence via, and including points on, the E. & O. R. R. to, and including, Valley Junction, Ohio; thence via, and including points on, the lines of the Pennsylvania Lines West of Pittsburgh to, and including, Canal Dover, Ohio; thence via, and including points on, the B. & O. R. R. Ry. to Uhrichsville, Ohio; thence via, and including points on, the B. C. C. & St. L. Ry. to, and including, New Comerstown, Ohio: thence via, and including, below of Pittsburgh to, and in-cluding points on, the lines of the Pennsylvania Lines West of Pittsburgh to, and including, Marietta, Ohio: thence via, and including points on, the P. C. C. ⁸ Governed by Official Classification or exceptions thereto. ⁹ Governed by Southern Classification. ⁴ Rates to Virginia Cities will be applied proportionally to Alberta, Brook-neal, Jarratt, and Meherrin, Va., only on shipments destined to points named in Agent J. J. Cottrell's Tariff I. C. C. No. 66 (Carolina Basing Tariff No. 3) and supplements thereto or reissues thereof.

specifics to the Virginia Gateways when shipments are destined to the southeastern territory involved.

Wherever the rates from the percentage points west of the line (referred to above) to Deepwater plus the local rates from Deepwater to stations on the Virginian Railway lying west of Salem make lower rates than on the regular basis, the lower rates will apply.

It will be noted that the rates are made on a combination basis, using the rates to Virginia Cities as basing factors and adding thereto the arbitraries specified in the various items of the table.

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Since the Virginian Railway lies between two rate adjustment territories, this is a natural consequence. It is extremely interesting to the rate student to note the blending of the two systems. Where the rates from percentage territory to points on the Virginian Railway are made on the rates to Virginia Cities plus the arbitraries, the resulting through rates are usually less than the combination rates breaking on the Virginia Gateways.

Taken as a whole, it is but natural and just to accord to these stations lying within Trunk Line Territory and Southern Territory, rates neither so high as the combination rates to southern points, nor so low as the rates to Virginia Cities. This adjustment will bring out the non-observance on the long-and-short-haul clause as concerns local points on this line. The carriers justify procedure under the competition that exists on the more important junction points not found at the other points on the line.

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## CHAPTER XXV

#### SPECIAL ADJUSTMENTS-Continued

# RATES BETWEEN POINTS EAST OF THE WESTERN TERMINI AND ST. PAUL, MINN., AND POINTS WEST OF LAKE MICHIGAN

In the preceding chapters the various rail rates based on the New York-Chicago percentage system have been explained. The rates to and from percentage territory, shown on Maps 3 and 4, Atlas of Railway Traffic Maps, applicable on local shipments have been set forth. In addition to these local rates moving between percentage territory on the west and points east of the Western Termini, there is also a large movement of freight between points lying west of Lake Michigan, west of the Mississippi and the Missouri rivers, and south of the Ohio and the Potomac rivers, that moves on proportional rates applying within the New York-Chicago territory. A notable example of this is the proportional rate applying east of Chicago, Chicago Junctions, and Lake Michigan on shipments between the Atlantic seaboard, on the one hand, and points grouped with St. Paul, Minn., on the other.

# (a) Westbound

The rates from the Atlantic seaboard territory to St. Paul, Minneapolis, Minnesota Transfer, Duluth, Minn., and points taking the same rates are based on the rates from the Atlantic seaboard points to Chicago, plus proportional rates shown in Table 41 applying on the portion of the haul west of Chicago. The proportional rates

# TABLE 41

BASIS FOR RATES FROM ATLANTIC SEABOARD POINTS EAST OF THE WESTERN TERMINI OF TRUNK LINES TO ST. PAUL, MINNE-APOLIS, MINNESOTA TRANSFER, DULUTH, MINN., SUPERIOR AND ASHLAND, WIS., AND STATIONS TAKING SAME RATES AS NAMED IN TARIFFS OF THE INDIVIDUAL LINES

			Proi	PORTI PLYII C	ONAI NG W HICA(	A RA EST	TES A	Ap-
TEM	WHEN FROM	То	In C	ENTS	PER	100	Pou	NDS
È					Clas	ses		
			1	2	3	4	5	6
1	All points named in eastern lines' tar- iffs, except the Syracuse group.②	St. Paul, Minneapolis, Minnesota Transfer, and Duluth, Minn.(3)	40	34	26	18	16	13
2	Syracuse group.	St. Paul, Minneapolis, Minnesota Transfer, and Duluth, Minn.③	42	34	26	18	16	13

Governed by the Official Classification.

OThe Syracuse group is shown on Map 9 of the Atlas of Railway Traffic Maps.
 OAnd stations taking the same rates as provided in eastern lines' tariffs.

shown in item 1 of Table 41 apply west of Chicago, Chicago junctions, Kankakee, Bloomington, Peoria, and certain lake ports on shipments from eastern groups east of the Syracuse group. On shipments from the Syracuse rate points the proportional rates applying west of Chicago, etc., are shown in item 2 of the table. They are

the same as those from other groups except on the first class, in which case the rates are 2 cents higher than the proportion applying over the same part of the route from other eastern groups. It should not be concluded from this, however, that the first-class rate from the Syracuse group to St. Paul is higher than that from New York to St. Paul. The rates from the Syracuse group to Chicago are only 70 per cent of the rates from New York to Chicago. The rate on first-class freight is only 63 cents. The first-class rate from Syracuse to St. Paul is therefore 63 cents plus 42 cents, or only 105 cents, which is 25 cents less than the rate from New York to St. Paul.

From points east of the Western Termini, shown in the groups of Map 9, to Albert Lea and points grouped therewith, and also to points on the Chicago Great Western Railroad shown in section 2 of Table 42 the rates are arbitraries over the rates from the same groups to St. Paul. These arbitraries are shown in Table 42. The arbitraries applying to Albert Lea and other points grouped therewith are a 15-cent scale, while those applying to Mankato are a 20-cent scale.

Table 43 shows the rates applying on the part of the haul east of Chicago and other junctions and on the portion west of Chicago, and on through rates on shipments from eastern groups, Map 9, to St. Paul, Albert Lea. and Mankato, each of which is taken as representing a group of stations. It may be seen that the rates from New York to St. Paul are a 130-cent scale. The rates from New York to Albert Lea and points taking the same rates are a 145-cent scale, and the rates from New York to the Mankato group are a 150-cent scale. The scales of rates presented in Table 43 are merely illustrative of the rates from the other eastern groups to the three groups specified. From Syracuse, Cumberland, and other eastern groups the rates are less, but they are made up of the rates to Chicago plus the proportional

rates shown in Table 41. The rates from all eastern groups, shown on Map 9, to St. Paul, Albert Lea, Maukato, and other points taking the same rates are made up of the local rates from the eastern groups to Chicago, and the proportional rates and arbitraries, shown in Tables 41 and 42, applying west of Chicago and other junctions.

## TABLE 42

Arbitraries Over St. Paul Rates Applying from Atlantic Seaboard to Groups Specified

and the state of t								
			ARB	ITR	ARI	ES	IN CENTS PER	100 Pounds
То		(	Clas	ses	Commodities ex- cept canned fish, fruits, meats, vegetables, sugar,			
	1	2	3	4	ð	6	С. L.	and coffee C. L.
Albert Lea Minn. Austin Minn. Faribault Minn. Hastings Minn. Le Roy Minn. Owatonna Mina. Rochester Minn. Waseca Minn. Zumbrota Minn.	15	12	10	ī	4	4	4	Class arbitraries
MankatoMinu.	20	17	13	9	6	6	6	Class arbitraries
Chicago Great West- ern Railroad sta- tions named below Douglas Minn. Judge Minn. Lena Minn. Le Roy Minn. Ostrander Minn. Pine Island. Minn. Simpson Minn. Spring Valley. Minn. Stewartville Minn. Zumbrota Minn.	15	12	10	7	4	4	4	Class arbitraries

The rates from the eastern groups to points west of Lake Michigan, south of Lake Superior, and east of Du-

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## TABLE 43

1			RATI	es in C	ENTS 1	per 10	0 Pou	NDS
TEN	То				Class	ses		
Ĩ			1	2	3	4	5	6
1	St. Paul,	N. YChicago	90	79	60	42	36	30
	Minn.	Chicago-St. Paul	40	34	26	18	16	13
		Through	130	113	86	60	52	43
2	Albert Lea,	N. YChicago	90	79	60	42	36	30
-	Minn.	Chicago-Albert Lea	55	46	36	25	20	17
		Through	145	125	96	67	56	47
3	Mankato.	N. YChicago	90	79	60	42	36	30.
	Minn.	Chicago-Mankato	60	51	39	27	22	19
1		Through	150	130	99	69	58	49

THROUGH CLASS RATES FROM NEW YORK TO ST. PAUL, ALBERT LEA, AND MANKATO, MINN.¹⁰

OThe rates east of Chicago and the proportional rates west of Chicago are governed by the Official Classification and exceptions.

luth and St. Paul are made in relation to the St. Paul rates or are arbitraries over the rates to Chicago or the Lake Michigan ports. The rates from the eastern groups to certain points on the west bank of Lake Michigan are the same as from the same groups to Chicago. That is, certain points on the west bank of Lake Michigan are accorded the 100 per cent rates. The rates to other points immediately west of the western shore of Lake Michigan are arbitraries over the Chicago rates, while to points farther west and to points south of Lake Superior the rates are either arbitraries over the Chicago rates with the St. Paul rates as maxima, or in some cases are higher than the St. Paul rates by certain arbitraries. For rates from C. F. A. Territory the area lying south of Lake Superior and west of Lake Michigan is grouped into the following territories: The Duluth-St. Paul, the Winona, the New London, Wis., the Marquette-Michigamme, Mich., and the Hancock-Houghton groups.

# (b) Eastbound

The rates from territory lying south of Lake Superior and west of Lake Michigan, as far west as the St. Paul

group, to points east of Lake Michigan and the Illinois-Indiana state line are made on combinations breaking on Chicago, Chicago junctions, Peoria junctions, and lake ports. However, there are no proportional rates, as in the case of the westbound rates applying west of Chicago and the lake ports. The rates are made up of the local rates from point of origin to Chicago or the other junctions indicated and the rates east of those junctions. The western proportion is governed by the Western Classification to the Chicago junctions or lake ports, while the rates east of Chicago and other points are governed by the Official Classification. From St. Paul to Chicago, for example, the rates are the following scale:

In a few cases the combinations are made on interior C. F. A. or eastern points, such as Toledo, Ohio, or Buffalo, N. Y.

This 60-cent scale applies on classes from St. Paul to Chicago as a proportion of a thorough rate to eastern points instead of the 40-cent scale governed by the Official Classification, shown in Table 41, on through westbound rates. The rates from St. Paul to Chicago, shown above, are the local rates. From the other groups south of Lake Superior and west of Lake Michigan to C. F. A. points and eastern groups, the rates are made in relation to the St. Paul rates.

RATES BETWEEN TRANS-MISSISSIPPI TERRITORY AND POINTS EAST OF THE WESTERN TERMINI

Between points in Trans-Mississippi Territory¹ and points east of the Western Termini, rates are made on

¹ Map 1 of the Atlas of Railway. Traffic Maps.

combinations breaking on the Mississippi River, on St. Paul, or on the Missouri River. When rates break on the Mississippi River the rates east of the river are the same as the St. Louis rates. The St. Louis rates are those for the 117 per cent group. That is, on all shipments between points east of the Western Termini and points in Trans-Mississippi River Territory that pass through the Mississippi River Crossings (St. Louis to Dubuque, inclusive) the rates are the 105.5-cent scale the St. Louis rates.

# RATES FROM C. F. A. TERRITORY TO MISSISSIPPI VALLEY POINTS

The rates from Central Freight Association Territory to specified Mississippi Valley points are based under or over the rate from St. Louis, Mo., or Louisville, Ky., to the same points of destination. To the specified Mississippi Valley points the rates from St. Louis, Mo., are the same as from Louisville, Ky.

The rates from Central Freight Association Territory to Mississippi Valley points are governed by the Southern Classification and are contained in C. F. A. Tariff No. 15 Series, published by E. Morris, Agent. The differentials or arbitraries under or over the St. Louis-Louisville rates used in arriving at the through rates from the several C. F. A. groups are shown in Table 44. Some of the representative Mississippi Valley points are Gulfport, Miss., Memphis, Tenn., Mobile, Ala., New Orleans, La., and Pensacola, Fla.

RATES FROM POINTS EAST OF THE ILLINOIS-INDIANA STATE LINE TO POINTS IN GREEN LINE TERRITORY

From points in the states of Indiana, Ohio, and Michigan to points in Green Line Territory (Map 5) the rates are based on the rates fixed by the southern lines from the Ohio River Crossings, Hagerstown, Md., Strasburg Junction, Va., Shenandoah Junction, W. Va., Potomac

## TABLE 44

BASES FOR RATES FROM CENTRAL FREIGHT ASSOCIATION TERRITORY TO MISSISSIPPI VALLEY POINTS-DIFFERENTIALS OR ARBI-TRARIES OVER OR UNDER THE ST. LOUIS-LOUISVILLE

$R_A$	TES (	1
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	То			In	CE	NTS	PER	100	) Po	OUN	DS			ol.
Gr	OUP MISSISSIPPI VALLEY O. POINTS						Clas	ses						28
	From	1	2	3	-4	5	6	Α	В	С	D	Е	11	F
1	Evansville (under St.LL.).	3	3	3	2	2	2	2	2	$2^{1}_{2}$	2	2	3	č
22	Vincennes		D A1	bitr	arie	s (2]	pply	sai	me	rate	s)		-	100
	Ft Wayne Columbus "	10	10	10	0	7	6	6	0 6	С С	C C	- ±	6	100
1	Detroit Teledo ")	<i>4</i> 0	19	10	3	4	0	0	0	0	0	9	0	شد
6	Cleveland "	00	20	1.4	11	0	0	0	0	0	0		11	10
7	Buffalo-Pittsburgh "	20	<i>4</i> 0	1.4	11	9	0	0	0	0	0	4	11	10
Š	Howard City "	31	24	173	131	$10\frac{1}{2}$	9	9	9	9	9	8	12	18
9	Owendale	32	25	18	14	11	10	10	10	10	10	<u>9</u>	13	20
10	Clare"	35	28	21	16	13	101	101	101	101	101	91	131	21
11	Cadillac"	37	29	21	16	13	11	11	11	11	11	10	14	22
12	Traverse City	431	35	251	19	15	13	13	13	13	13	12	16	26
13	Cheboygan"	46	37	28	21	17	14	14	14	14	14	13	17	28
14	Manistique(3)"	23	171	12	91	8	7	7	7	7	7	6	9	14
15	Kentucky(4)"	20	18	16	10	8	7	6	7	5	5	7	10	10

⁽¹⁾The rates are governed by the Southern Classification. ⁽²⁾New Orleans: 8, 8, 8, 4, 4, 3, 4, 2, 2, 3, 4, 4. ⁽³⁾Applicable only on traffic originating beyond. ⁽³⁾New Orleans, only; Memphis, 22, 20, 18, 11, 9, 8, 8, 8, 8, 8, 8, 13, 16.

Yards, D. C., Baltimore, Md., and the Virginia Gateways plus the established rates from points of origin to said crossings and gateways.

From Western Termini and points grouped therewith to Green Line Territory the rates are also made up of the rates south of the Ohio River Crossings and other gateways mentioned above, plus the rates from the Western Termini to those crossings and gateways. However, these rates cannot exceed the all-rail rates from New York to the same points in Green Line Territory by more than the following differentials:

Classes							 				 	 	 		1	2	33	4	- 5	6
Rates .		•	• •		•	•	 	•	•	•	 				15	13	11	9	7	6

Rates between Western Termini and southern points may also break on the South Atlantic ports. Where

rates are made through the South Atlantic ports the following basing rates from the Western Termini to Charleston, Savannah, and Brunswick are used.

 Classes
 1
 2
 3
 4
 5
 6

 Rates
 9.5
 80
 75
 70
 58
 46

All-rail rates to Charleston, Savannah, and Brunswick proper are observed as minima to points of destination through these ports.

In constructing through rates on the combinations through the Virginia Gateways and the Ohio River Crossings the first six classes of the Southern are used as equivalent to the six classes of the Official, and the lettered classes of the Southern Classification are assimilated as follows with Classes 4, 5, and 6 of the Official:

Southern Classification, Class A B C D E H F Equivalent to Official Classification, Class...6 6 6 6 5 4 twice-sixth class

The through rates on commodities not covered by published tariffs are made not higher than combinations of established rates to the Ohio River Crossings and Virginia Cities plus the full rates south of such crossings and Virginia Cities. The through rates constructed on the combination of the rates north and south of the crossings and the gateways are governed by the Southern Classification, except that to the territory of the associated railways of Virginia and the Carolinas the associated railways' exceptions are applied. When commodity rates are made on combinations they are subject to class rates as maxima, except on petroleum and its products.

Rates on classes and commodities from points in Buffalo-Pittsburgh Territory to points in Florida on, and south of, the Jacksonville-Lake City-Live Oak Line (ex-

## SPECIAL ADJUSTMENTS

cept to Jacksonville, Fla., and group) are made on the Virginia Cities, the Ohio River, or the Jacksonville combination, whichever makes lower. If rates are made by combination on Ashland, Ky., or Kenova, W. Va., in order to take care of the Chesapeake & Ohio Ry., and Norfolk & Western Ry., and connections to the Southeast, east of the Chattanooga-Athens-Augusta-Macon-Carbolt Line, the Cincinnati combination rates will apply as minima. Via Kenova, W. Va., the Cincinnati combination is equalized to Southern Ry. Stations from Atlanta to Brunswick. To destinations west of Atlanta to Brunswick the Cincinnati combination will be equalized from points on and east of Chicago-Indianapolis-Cincinnati line only.

# CHAPTER XXVI

#### CANADIAN FREIGHT RATES

# EASTERN PROVINCIAL RATES

The topography and climate of the Dominion of Canada is such that railroad construction has, to a great extent, adhered closely to the international border. A few lines have been constructed east of Winnipeg that penetrate north of 50 degrees latitude, and west of Winnipeg that extent to 55 degrees latitude.¹ The density of population is also greatly less than that throughout the states in general. Consequently, it has been the policy of the Canadian carriers to look beyond their local territory for additional traffic from which to derive their revenue.

In 1853 the Grand Trunk Railway had its American beginning through the leasing of a line from Portland, Me., running northwesterly through the states of Maine and New Hampshire. In the construction of the Grand Trunk Railway as well as other railways in the Dominion, the government has largely assisted by means of subsidies, or land grants, which amount to many thousands of dollars for each mile constructed. To their promoters, the Canadian lines do not represent such an expenditure as is involved in the construction of lines in the United States east of the Mississippi River.

Government ownership is being tested. The Dominion owns several thousand miles of railway, the services of which compare favorably with those rendered by pri-

¹See Map 1, Atlas of Railway Traffic Maps.

# CANADIAN FREIGHT RATES

vately owned interests and the properties of which are naturally operated on a high scale of efficiency.

It is not surprising to find that the element of capitalization and density of traffic affects in some degree the measure of transportation charges, as will be disclosed in these chapters, and that the local rates established by the Canadian railways are generally lower (particularly as applied to long hauls) than the rates obtaining for similar distances in this country.

The advance of the Grand Trunk Railway as a factor in the commerce of this country is marked by a substantial reduction in the previously existing rates on certain commodities from New England to western points. For instance, the rate of \$1.50 previously prevailing on boots and shoes from Boston to Chicago by way of the Boston & Albany Railroad and its connections was reduced to 50 cents per hundred pounds. So successful was this venture that, at the instance of the mercantile interests of Chicago, an extension of the system from Port Huron, Mich., to Chicago was undertaken and completed in 1880. A similar action was then taken by the Canadian Pacific Railway, which thereby gained an entrance to Duluth and subsequently into St. Paul, Milwaukee, and Chicago.

When lake navigation is closed, the competition of these lines is the most potent factor in influencing the establishment by American railways of a lower standard, or base rate, to or from Chicago. From this it may be seen that practically the entire commerce of the country, whether actually passing over the Canadian routes or not, receives an absolute and direct benefit from Canadian railway competition.

There is no question that when the competition was at its height, the rates named did not bear a fair share of the transportation costs. Indiscriminate and senseless competition, however, has been dispensed with to a great degree through the concession of agreed differentials by

the direct American lines on the one hand and by the indirect Canadian lines on the other. On this basis, the Canadian lines are permitted to adjust their rates to certain figures below the rates obtaining via the standard all-rail routes. This adjustment, however, will be taken up in a later part of the chapter devoted to the Canadian adjustment.

Before the discussion of the international rate adjustment is taken up, it seems appropriate to discuss the interprovincial and the intraprovincial and the regional rate structures obtaining within the Dominion of Canada.

It will be noted from the Atlas of Railway Traffic Maps that railroad building in the Dominion has, to a great extent, in so far as the eastern section of the country is concerned, followed the natural waterways of that terri-The maritime provinces, New Foundland, New tory. Brunswick, and Nova Scotia, all have important ports which are served by many boat lines affording a cheap and ready means of distribution. The St. Lawrence River and the Great Lakes offer the same advantages to many of the inland provinces. It will be observed also that the transportation lines parallel the shores of the St. Lawrence and the shores of the Great Lakes. The fact that these waters are navigable the greater portion of the year has occasioned the application of a very low scale of local rates, that is, considering the volume of traffic involved.

In Table 45 are given representative distance rates applicable on traffic moving on the Grand Trunk Railway System from Toronto, Ont., to stations between York and Montreal, both inclusive. The figures in the left-hand column indicate the distance such points are removed from the point of origin.

A comparison of these rates with the rates obtaining under the Central Freight Association scale² and the

² See Chapter II.

#### TABLE 45

# CLASS RATES APPLYING BETWEEN TORONTO, ONT., AND STATIONS SHOWN BELOW

			RAT	es n	N CEI	NTS P	ER 10	00 Pc	OUNDS	5	
MIL	es To	•				Class	ses				
		1	2	3	4	•5	6	7	8	9	10
6	YorkOnt.	11.5	9	8	7	6	6	4.5	4.5	4.5	4.5
10.	Scarboro JctOnt.	14	12.5	10.5	9	7	7	6	6	6	4.5
17	Port Union Ont.	16	14	12.5	10.5	8	7	7	7	7	6
23	Pickering Ont.	18.5	16	14	11.5	9.	8	7	8	8	6
29	Whitby Jet Ont.	20.5	18.5	16	12.5	10.5	9	8	9	8	7
34	Oshawa Jct Ont.	23	20.5	17.5	15	11.5	10.5	8	9	9	7
49	Newcastle Ont.	27.5	24	20.5	17.5	14	12.5	10.5	11.5	10.5	8
56	Newtonville Ont.	30	26.5	23	18.5	15	14	11.5	12.5	11.5	9.5
70	CobourgOut.	32	29	24	20.5	16	15	12.5	14	12.5	10.5
78	GraftonOnt.	37	32	27.5	23	18.5	16	14	15	14	11.5
93	Brighton Ont.	39	34.5	30	24	19.5	17.5	15	16	15	12.5
102	TrentonOnt.	41.5	37	31	26.5	20.5	18.5	16	17.5	16	14
136	Napanee Ont.	$\pm 6$	40.5	34	29	23	20.5	17.5	18.5	18.5	15
186	Gananoque JctOut.	53	46	40.5	33.5	26.5	24	19.5	20.5	20.5	17.5
197	Mallorytown Ont.	53	46	40.5	33.5	26.5	24	20.5	22	22	18.5
221	PrescottOnt.	57.5	50.5	43.5	35.5	29	26.5	22	23	24	19.5
260	MoulinetteOnt.	62	54	47	39	31	29	23	24	26.5	20.5
297	Coteau JctQue.	69	61	52	43.5	34.5	32	24	25.5	27.5	23
335	MontrealQue.	76	66.5	57.5	47	38	35.5	26.5	27.5	30	25.5

Governed by the Canadian Classification

Trunk Line scale is not practicable because the rates applicable on traffic in the Dominion of Canada are governed by the Canadian Classification, which is adjusted on a ten-class division instead of on the regular six-class division as provided by the Official Classification.

It will be observed that no rates are indicated for Class 9. The rate for this group, according to the classification, applies to special tariffs issued by the individual carriers on live stock, reference being made in their classrate applications for the commodity publications carrying such rates.

The rates shown as applying between Toronto, Ont., and the points designated are constructed in accordance with the advanced basis which the Canadian Railway Commission recently authorized upon application of the carriers. This scale of rates is applied solely throughout

the territory lying east of Lake Huron and north of Lakes Erie and Ontario, and far enough east to include points in the Province of Quebec, west of Montreal.

To continue the adjustment farther east, and to exemplify certain modifications of the application of the Canadian mileage scale, the line of the Intercolonial Railway has been taken from Montmagny, Que., to Halifax, N. S., and to Sydney, N. S. The Temiscouata Railway (connec-

#### TABLE 46

CLASS RATES FROM MONTREAL, QUE., TO STATIONS IN CANADA EAST THEREOF

	Governed by the Canadian Classification											
	1		RATI	es in	CENT	FS PE	r 100	) Pou	INDS			
MIL	es To				(	lasse	s					
		1	2	3	4	5	6	7	8	9	10	
	Intercolonial Ry.											
199	Montmagny Que.	38	33	29	24	19	17	15	15	•••	13	
229	Ste. Louise Que.	40	35	30	25	20	18	16	16	••	14	
265	St. AlexandreQue.	42	37	32	26	21	19	17	17		15	
293	Isle Verte , Que.	44	39	33	28	22	20	17	18	• •	15	
323	St. FabienQue.	46	40	35	29	<b>23</b>	21	18	19	• •	16	
342	RimouskiQue.	48	42	36	30	24	22	18	19	• •	16	
369	Petit Metis Que.	50	44	38	31	25	23	19	20	• •	17	
396	Val Brillant Que.	52	46	3 <b>9</b>	33	26	24	20	20	• •	18	
435	MillstreamQue.	54	47	41	34	27	25	20	21		19	
465	Campbellton N. B.	56	49	42	35	28	26	20	21		19	
651	MonetonN. B.	58	51	44	36	29	27	21	22		20	
775	Truro N. S. ]											
836	HalifaxN.S.	60	53	45	38	30	28	21	22		20	
830	PietouN.S.											
897	MulgraveN. Ś.	64	56	48	40	32	30	22	23		21	
998	SydneyN.S.	68	60	51	43	34	32	23	24	• •	22	
	Temiscouata Rv.											
284	Ste Modeste One	66.5	58.5	50.5	41.5	33.5	31	24	25.5		23	
294	Whitworth Que	69	61	52	43.5	34.5	32	24	25.5		23	
304	St Honore Oue	73.5	64 5	55	46	37	34.5	25.5	26.5		24	
311	Vauhan Que	73.5	64.5	55	46	37	34.5	25.5	26.5		24	
315	St. Louis du Hat	10.0	01.0	00	10	0.	0	-0.0				
010	Hal Oue	73 5	64 5	55	46	37	34.5	25.5	26.5		24	
320	Cahano Que	73.5	64.5	55	46	37	34.5	25.5	26.5		24	
338	Ste Rose	76	66.5	57.5	47	38	35.5	26.5	27.5		25.5	
353	St Jacques Ch N B	78	69	58.5	49.5	39	37	26.5	27.5		25.5	
359	Edmunston Jet N R	78	69	58.5	49.5	39	37	26.5	27.5		25.5	
372	Baker Brook N B	78	69	58.5	49.5	39	37	26.5	27.5		25.5	
383	Ledges N B	80.5	70	61	50.5	40.5	38	27.5	29		26.5	
390	Connors N.B.	80.5	70	61	50.5	40.5	38	27.5	29		26.5	
		00.0		01	00.0	10.0						

Governed by	the	Canadian	Classification
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tion or feeder extending from Riviere du Loup to Connors) is also included, the rates being indicated in Table 46.

A comparison of rates with the length of haul between Montreal and Sydney, a distance of 998 miles, with the rates from Chicago to New York, 912 miles, seemingly indicates an advantage of lower rates applying via the Canadian lines. The comparison is not correct, however, for reason of the differences existing in the classifications governing the respective rate systems.

So far as the Intercolonial Railway is concerned, it will be observed that the rates applied for distances that correspond with those shown in Table 45 are relatively on the same basis, illustrating in some degree that main line rates have to be built on the same measure, or scale, in order to avoid abrupt increases or decreases where the differences or measures overlap.

To the stations on the Temiscouata Railway (although the distances are very much shorter), the rates are considerably higher in all cases. The rates to Ste. Modiste, although but 284 miles from the point of origin via the route traveled, are the same as the main line rates on the Intercolonial Railway to Millstream, Que., a distance of 435 miles. The propriety of making joint-line rates somewhat higher than those that obtain for single-line hauls and of making rates on branch lines or feeders higher than main or parent lines has long been recognized by the Interstate Commerce Commission and the Board of Railway Commissioners for Canada and others connected with the establishment of freight rates.

Take the instance of the Temiscouata Railway, for example, for the statistical year of 1913, it handled 187,553 tons of revenue freight. A great bulk of the traffic handled (no less than 92 per cent) on this road originated thereon, and of this tonnage 93 per cent is concerned with forest products, while of the total tonnage carried by the road 87.4 per cent is represented by the

same item. By taking up the more important items of freight, the following result is obtained on percentages:

Anthracite coal	1.7%
Bituminous coal	1.7%
Manufactures	2.7%
Products of agriculture	4.9%
Miscellaneous	3.7%
Forest products	37.4%

The average haul per ton is 43.35 miles; the length of the road is 113 miles; freight train mileage on the Temiscouata Railway is to mixed train mileage as one is to seven, while the preponderance of mixed train mileage vitiates somewhat many averages computed as to the tonnage per train. Subject to this caution, it appears that the average tonnage per train moving freight is 97 tons.

For the year 1912 the average haul per ton on the Canadian Pacific Railway was 372 miles, while the average tonnage per freight train was 392 tons. In the case of the Grand Trunk Railway the figures were respectively 304 and 102. It is stated by officials of the Temiscouata Railway that the railway is disadvantageously situated, as 50 per cent of its line is said to have one and one-half per cent grade.³

From the foregoing we have a preponderance of very low grade traffic, namely, (1) forest products; (2) short average hauls; (3) a low train-tonnage loading; and, (4) an ascending or grading roadbed. All of these argue for, and compel the application of, higher rates in order to produce revenue and profit.

## WESTERN PROVINCIAL RATES

For that portion of the Dominion lying west of the Great Lakes the Board of Railway Commissioners for Canada recently investigated the propriety of the then

^aNinth Report of the Board of Railway Commissioners for Canada, 1914.

existing rates, and the complaint of shippers that these rates were unduly high as contrasted with those applicable throughout the territory lying east, and the complaint that to this extent these rates restricted the development of this vast western territory.

The findings of the commission, in some measure, sustained this contention, and lower rates for the future were prescribed. The territory was first divided into three divisions—the first, the Prairie Division, extending from the Great Lakes to the Rocky Mountains; the second, or the Pacific Section, including the main-land rail lines and British Columbia; and the third, the British Columbia Lake Regions, including the inland navigable waters in that province.

Having this outline of the zones the commission established the standard scale of maximum freight rates for each zone. The commission took the current Manitoba rates as a basis and with modifications adopted them as a standard. The resulting scale of rates provides for a progression of mileage rates up to and including 2100 miles. It applies generally throughout the entire provincial sections and the British Columbia Lake Regions, abolishing the previous and higher scales formerly charged in the provinces of Saskatchewan and Alberta. The Pacific scale, applicable in the Pacific section, was adjusted on a slightly higher basis.

Both of these scales, however, are subject in some degree to the influence of the lines operating within the northern 'part of the United States, such as the Great Northern and the Northern Pacific railways. As concerns through traffic to eastern Canadian destinations, their rates cannot materially exceed the rates established by the United States lines if they are to hold their share of the traffic. The adjustment of rates in the United States affecting this region is more fully dealt with in the treatise on *Freight Rates: Western Territory*.

It is true, in general, that rates established from Fort William, Ont., are made the same from Minneapolis, St. Paul, and Duluth. To give the reader some idea of the measure of rates so established under the foregoing rule, the rates currently in effect to some of the more important points, Winnipeg and west thereof, are reproduced in the following table:

## TABLE 47

CLASS RATES FROM MINNEAPOLIS, ST. PAUL, AND DULUTH, MINN., TO CANADIAN PROVINCIAL POINTS INDICATED Governed by the Canadian Classification

		R.	TES I	N CEN	TS PER	100 ]	Poun	DS	_	
То				C	lasses					
	1	2	3	4	5	6	7	8	9	10
Portage La										
Prairie Man.	110.5	92	73.5	55	49.5	41.5	30	31		24
WinnipegMan.	98	81.5	64.5	48.5	43.5	37	27.5	27.5		22
Brandon Man.	126.5	106	84	63.5	57.5	48.5	34.5	34.5		29
ReginaSask.	170	147.5	117.5	88	79	68.5	49	46.5		41
Moosejaw Sask.	184	154	122.5	92.5	83.5	73	51	49		43:5
Saskatoon Sask.	196.5	164.5	131.5	98.5	89	77.5	54.5	51		45.5
Medicine Hat. Alta.	224	186.5	149	112	100.5	89	64	57		52.5
Lethbridge Alta.	239	199	158	119	107.5	95	68.5	59		56
Henry House Alta.	280.5	236	186.5	141	126	116.5	83.5	70.5		69.5
Prince George. B. C	.317.5	261	205	158	143	129.5	96	81	• •	80

Most of these points appear in Map 1 of the Atlas of Railway Traffic Maps. Their location can readily be determined, and an estimate formed of the relative location of the points, and the measure of rates established for such distances as can be taken as representative of those employed in this territory.

## INTER-REGIONAL RATES

Taking the rates enumerated in the foregoing section as the basis, the rates are then constructed between destinations and points of origin in eastern Canada, on the one hand, and in western Canada, on the other. These rates are adjusted on an arbitrary basis, using Montreal rates as the base rates in so far as the territory lying east of Montreal is concerned. The rates from Montreal to representative destinations in western Canada are expressed in Table 48.

## TABLE 48

CLASS RATES FROM MONTREAL, QUE., TO CANADIAN PROVINCIAL POINTS

							the second se			
		RATE	ES IN	CENT	S PER	100	Pour	DS		
То	Classes									
	1	2	3	4	5	6	7	8	9	10
Winnineg	166	138	111	86	71	63	50	50		45
Portage La Prairie	177	147	119	92	76	67	52	53	• •	47
Paging	227	189	153	117	98	87	65	63		59
Colgary	294	245	197	150	128	116	86	77		75
Calgary	245	204	165	126	107	95	70	67		63
Monophy	234	195	157	121	102	91	67	65		61
Vallow Hood	399	268	216	165	143	130	97	85		-85
Prince George	350	288	229	178	154	140	106	93		93

Taking the line of the Grand Trunk Railway, east of Montreal to Quebec, and the Intercolonial Railway, east of Montreal to Halifax, the representative grouping of the lines may be thus given:

GROUPING OF	STATIONS	EAST OF	MONTREAL
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Stations						
Grand Trunk Railway Stations						
St. Lambert to St. Bazile. Beloeil to Ste. Rosalie Junct. Britannia Mills to St. Liboire. Upton to Victoriaville. Princeville to Quebec.						
Intercolonial Railway Stations						
St. Charles Junct. to Dalhousie Eel River to Painsec Junct	15 17 19					

The rates from the above groups are constructed with reference to the rates established from Montreal, on a

differential-higher adjustment. The differentials from the groups enumerated above are as follows:

## TABLE 49

DIFFERENTIALS TO BE ADDED TO MONTREAL RATES TO CONSTRUCT RATES FROM EASTERN GROUPS OF ORIGIN

	ŀ	ATES	IN	CEI	NTS	PER	100	Pou	NDS	
FROM		Classes								
	1	2	3	4	5	6	7	8	9	10
Group 3	6	5	5	4	3	3	3	3		2
Group 5	8	7	6	5	- 4	4	4	4		- 3
Group 6	10	8	7	6	- 5	5	4	4		4
Group 7	12	11	- 9 -	8	6	6	- 5	5		4
Group 10	14	12	11	- 9	7	7	6	6		5
Group 15	18	16	14	11	9	9	- 9	9		9
Group 17	20	18	15	13	10	10	10	10		10
Group 19	22	20	17	14	11	11	11	11		11

The through rates are constructed by adding the foregoing differentials to the Montreal base rates. This is to equalize to some degree various production points in Canada and to enable them to compete with each other on somewhat equal terms. By a comparison of these differentials with the local rates applying to Montreal, it will be seen that they are materially less than the local rates. Taking Halifax as the point of origin, it will be noted that the manufacturer or merchant located thereat is by no means at so great a disadvantage under the application of the differential adjustment as he would be were the full combination of locals exacted on this traffic.

## Commodity Rates

Because the advantage of location that one point possesses over another is preserved to each as far as is practicable on local traffic, it is unnecessary to burden this treatise with an illustration of typical commodity rates which are, as a rule, based on existing class rates. On long hauls and particularly on grain, grain products, live

stock, products of the forest, etc., common to the northwest, rates on export traffic are made considerably less than those applying on domestic business, and the same rate is blanketed over larger areas, placing long stretches of line on the same basis. This practice is, of course, necessary to enable the residents in the western part of the Dominion to find a profitable market for their products. Both from the western part of Canada and from the eastern part the rates of necessity must be made with reference to the rates maintained for similar distances in the United States, where the adjustments are of long standing and have been so made as to permit of the equitable marketing of products to the fullest degree possible. The close relationship between the commerce of the United States and Canada is well illustrated by the way in which rates in the one country are related to the rates in the other. The railway companies of Canada and those of the United States must bear in mind what the competitive roads on the other side of the line are doing, and in order to avoid disastrous competition it is often advisable for them to agree as to adjustments of rates.

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## CHAPTER XXVII

#### CANADIAN FREIGHT RATES-Continued

Since the Canadian lines have effected entrances and acquired rights of way through the United States to several points, the more important of which are Chicago, Duluth, Minneapolis, and St. Paul, they are, of course, in competition with the American lines serving such places. To adjust this competition on an equitable basis it is necessary that the Canadian roads employ the same medium of classification and the same bases for rates in adjusting their charges as is employed by the American lines. Consequently, we will find, in taking up the construction of rates to various base points in the eastern part of Canada and the United States, that the application of the percentage principle of making rates has been extended to that territory.

# Adjustment of Rates from Central Freight Association Territory

It will be observed from Map 4 of the Atlas of Railway Traffic Maps, that from Central Freight Association Territory, traffic may move into Eastern Canada by way of the Detroit or the St. Clair rivers (through Detroit or Port Huron, Mich.) or through the Niagara Frontier by way of Black Rock or Suspension Bridge, N. Y.

#### TABLE 50

#### STANDARD RATES FROM CHICAGO TO EASTERN POINTS

FROM Снісадо То	RATES IN CENTS PER 100 POUNDS Classes							E STOCK 00 Pound	Dressed Meats Per 100	
	1	2	3	4	5	6	Hors	sesCattleSheep		POUNDS
Detroit Port Huron Buffalo Philadelphia Montreal New York Foston	50.5 56.5 62 88 90 90 97	43 48 52.5 77 79 79 85	$     \begin{array}{r}       34 \\       38 \\       41.5 \\       58 \\       60 \\       60 \\       65 \\       65 \\       \end{array} $	25.5 28.5 31 40 42 42 42 46	$17.5 \\ 20 \\ 21.5 \\ 34 \\ 36 \\ 36 \\ 39 \\ 39$	$     \begin{array}{r}       14 \\       16 \\       17.5 \\       28 \\       30 \\       30 \\       32 \\       32     \end{array} $	$\begin{array}{r} 47 \\ 47 \\ 58 \\ 72 \\ 74 \\ 74 \\ 74 \\ 74 \end{array}$	$23 \\ 25.5 \\ 30.5 \\ 36 \\ 38 \\ 38 \\ 38 \\ 38 \\ 38 \\ 38 \\ 38$	$ \begin{array}{r} 29\\321.5\\41.55443.55\\433.55\\433.55\end{array} $	433 450 555 555 555

For the purposes set forth in this treatise, the rates in Table 50 will be considered as the standard rates from Chicago to the Eastern basing points named. Should the above standard rates be reduced, it will not be permissible to reduce the rates to any of the base points except where such base points are in the direct line to Buffalo or Boston, in which case the current Buffalo or Boston rates, as the case may be, will be the maximum (subject to the rates from Detroit or Port Huron, as a minimum from points taking lower than 78 per cent under C. F. A. rules).

Considerable traffic, which has neither origin nor destination in the Dominion, is handled through the two frontiers by the Canadian lines and their connections. The Michigan Central Railroad, for example, is in competition for traffic from Detroit to Buffalo with the American lines operating south of Lake Erie and, as the latter lines employ the C. F. A. scale as their basis for rates, the Michigan Central is compelled to employ the same schedule. It having done so, this forms a maximum, though not a minimum, above which rates to intermediate points between Detroit and Buffalo cannot rise without violating the long-and-short-haul principle.¹ Consequently, through successive expansions of the original adjustment, a modification of the C. F. A. scale has come to be employed on international traffic as far east as Toronto. This fact is disclosed by Map 8, wherein the borders of Central Freight Association are clearly set forth and which includes that portion of Canada immediately north of Lake Erie and between the Detroit and the St. Clair rivers and the Niagara Frontier, extending as far east as Toronto.

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¹As the fourth section of the Act to Regulate Commerce does not apply to intermediate points in Canada, the carriers are in many cases charging higher rates to Canadian points intermediate to Buffalo.

In the application of the scale, however, several base points have been established, intermediate to Buffalo, on the line through Detroit, these points being Windsor, Sarnia, Belle River, Comber, Kingsville, Forest, London, and Hamilton, Ont. The formulas announced in Table 51 are employed in the construction of both class and commodity rates.

## TABLE 51

BASIS FOR MAKING RATES TO CANADIAN GROUPS FROM CENTRAL FREIGHT ASSOCIATION, WESTERN, AND SOUTHERN TERRITORIES

To Groups	BASIS FOR GENERAL MERCHANDISE (For standard rates see Table 50)	BASIS FOR LIVE STOCK AND DRESSED MEATS, CARLOADS (For standard rates see		
	Classes	From points taking	Rates	
Windsor, Ont. ¹	8.4 7.4 5.3 4.2 3.2 2.6 above Detroit rates, but not to exceed Belle River, Comber, or Kingsville	78%	Buffalo current	
Sarnia, Ont. ²	8.4 7.4 5.3 4.2 3.2 2.6 above Pt. Huron rates, but not to exceed Forest rates	and over	rates	
Belle River, Ont. ¹ Comber, Ont. ¹ Kingsville, Ont. ¹ Forest, Ont. ²	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	78% and over	Buffalo current rates	
London, Ont. Hamilton, Ont.	From points taking 78% and over of Chicago-to-New York rates. under Central Freight Associa- tion rules, current Buffalo rates apply From points taking less than 78% of Chicago-to-New York rates, under Central Freight Associa- tion rules, Toronto rates apply, except that from other than Pittsburgh, Ironton, Johnstown, and Connellsville points, the rates Cincinnati to Buffalo are the maximum and to stations	78% and over	Buffalo current rates	

## TABLE 51—Continued

#### BASIS FOR MAKING RATES TO CANADIAN GROUPS FROM CENTRAL FREIGHT ASSOCIATION, WESTERN, AND SOUTHERN TERRITORIES

Party and a second seco				
	BASIS FOR GENERAL MERCHANDISE (For standard rates see Table 50)	BASIS FOR LIVE STO AND DRESSED MEATS CARLOADS (For standard rates)		
To GROUPS	RATES IN CENTS PER 100 POUNDS	Table	50)	
	Classes	From points	Rates	
	1 2 3 4 5 6	faking		
London, Ont. Hamilton, Ont.	shown as taking $2\frac{1}{2}$ , $1\frac{1}{2}$ ,	78% and over	Buffalo current rates	
Toronto, Ont.	From Ohio, Western Pennsyl- vania, Indiana, and certain Illi- nois and Kentucky stations named in Table 53 rates are on bases shown in Tables 52 and 53 From Chicago and other Illinois points not specified in Table 53 and from points in Michigan, Buffalo standard class rates ap- ply. Such rates are called To- ronto rates in tariffs	78% and over	Buffalo standard rates	

¹ Via Detroit. ² Via Pt, Huron Tunnel.

It will be recalled that in the chapter dealing with the construction of rates under the Central Freight Association scale, that from all common points in Central Freight Association Territory east of the 100 per cent group, rates to Buffalo are made on the basis of the shortest workable route. Having determined the proper scale to employ to Detroit and Port Huron, Mich., and Buffalo, N. Y., these rates are used as the bases for constructing through rates to the Canadian base points and the related points enumerated above.

As the rates to the Belle River group are the maximum in fixing the rates to Windsor and Sarnia, that adjustment will be taken up first.

According to the Chicago Minimum Rate Sheet, the agreed rates from Chicago to Detroit and Port Huron, Mich., are as follows:

and to Buffalo as follows:

The first step now necessary is to determine the existing difference between the Buffalo rates, on the one hand, and the Detroit and Port Huron rates, on the other, the difference in this instance amounting to the following figures on the various classes:

As these differences are in excess of the  $7\frac{1}{2}$ -cent scale mentioned in Table 51, the rates to the Belle River group are made by deducting the  $2\frac{1}{2}$ -cent scale of arbitraries shown in the same item from the Buffalo rate, obtaining the following as a result:

Classes	1	2	3	4	5	6
Rates	59.5	51	40	29.5	20	16.5

Should it have so happened that the fifth-class Detroit rate was 15.7 cents, the resulting difference would have been but 3.2 cents, which is less than the  $3\frac{1}{2}$  cents difference prescribed for this class in the item of the table. In such a case the Buffalo rate would have been applied to Belle River without regard to the differential adjustment under Buffalo rates. Having thus determined the proper rates to apply from Chicago to Belle River, the construction of rates to either Windsor or Sarnia simply involves the addition of the arbitraries indicated in the first two items of Table 51 to the Detroit rates, observing as maximum, the rates to Belle River previously established.

For example, the combination indicating the adjustment is as follows:

Classes	1	2	3	4	5	6
Chicago to Detroit rates	50.5	43	34	25.5	17.5	14
Arbitraries	8.4	7.4	5.3	4.2	3.2	2.6
Result	59	50.5	39,5	29.5	21	16.5

It will be observed that the Belle River arbitrary combination exceeds the Windsor rates on all classes except the sixth class. The final result and scale of rates from Chicago to Windsor is as follows:

Classes	 1	2	3	-4	5	6
Rates	 54	46	36	27	19	15

The above illustration also exemplifies the matter of rates to Sarnia. There are instances, however, particularly in so far as short-haul points are concerned, in which the rates to Port Huron vary as compared with those to Sarnia. This will necessitate individual comparisons in order to determine which are the proper scales to be employed.

To London and Hamilton, Ont., and Points Taking the Same Rates.—From points shown on Map 4 as taking 78 per cent, and over, of the Chicago-New York rates under Central Freight Association rules, such rates as may be currently in effect and established by the lines to Buffalo, are applied also to London and Hamilton.

From points taking less than 78 per cent of the Chicago-New York rate, aside from Pittsburgh, Ironton, Johnstown, and Connellsville, hereinafter described, the rates established to Toronto, Ont., are applied to London and Hamilton but with the proviso that the following rates from Cincinnati to Buffalo be observed as maximum.

Classes	1	2	3	4	5	б
Rates	51	43.5	32.5	22.5	18.5	16

To such stations as Belle River, Comber, Kingsville, etc., which are shown as taking an arbitrary scale of  $2\frac{1}{2}$ cents less on first class below the Buffalo rates, the same differences may be observed below the Toronto rates, when shipments are forwarded via Detroit.

To Toronto, Ont., and Points Taking the Same Rates.— In working out an equitable adjustment of rates to apply to Toronto, the Canadian Freight Association, in conjunction with the Central Freight Association, checked in a line of mileage rates and base-point scales to be applied from all points in Central Freight Association Territory. Representative junction points throughout the territory were selected and the base scale or mileage scale of rates that were to be published therefrom was indicated as follows:

## TABLE 52

Miles	1	RATES IN CENTS PER 100 POUNDS Classes						
	.							
	-	1	2	3	4	5	6	
300		48.5	41	30	20.5	17.5	14	
3251		49.5	41.5	31	21.5	18	14.5	
350		50.5	42.5	32.5	22.5	18.5	15.5	
375		52	44	33	23	19.5	16.5	
400		53	45.5	34	23.5	20.5	17	
425		53.5	46.5	35	24.5	21	17.5	
450		54.5	47	36	25.5	21.5	18	

ARBITRARY AND DISTANCE RATES TO TORONTO APPLICABLE IN CON-NECTION WITH CANADIAN INTERNATIONAL TRAFFIC

¹ This scale is not in use.
#### TABLE 52—Continued

	R	ATES IN	CENTS PI	er 100	Pounds	
FROM			Classe	s		
	1	2	3	4	5	· 6
Indianapolis, Ind	56	49	36.5	26	22.5	18.5
Danville, Ill.	58	50	38.5	27	23	19.5
Terre Haute. Ind	60	52	40	28	<b>24</b>	20
Louisville, Ky.	61.5	53	41	29	24.5	20.5
Essex, Ill.	61.5	53.5	41	29	24.5	20.5
Evansville, Ind.	65	57	43.5	30	26	22
Ironton, Ohio	59	52	40	<b>28</b>	24	20

ARBITRARY AND DISTANCE RATES TO TORONTO. APPLICABLE IN CON-NECTION WITH CANADIAN INTERNATIONAL TRAFFIC

These rates in Table 52 are used as assumed mileage rates from the various points from which they are authorized to apply.

In Table 53 is given a list of representative points in Central Freight Association Territory with the mileage rates or the base-point rates that are to be applied therefrom.

For example, if it were desired to construct the rate from Adams, Ind., to Toronto, the 400-mile scale appear-

### TABLE 53

BASIS FOR MAKING RATES TO CANADIAN GROUPS FROM CENTRAL FREIGHT ASSOCIATION, WESTERN, AND SOUTHERN TERRITORIES

Figures in Toronto column indicate assumed mileage to be used in establishing rates. Figures in Montreal column indicate the percentage of the Chicago-to-New York class rates.

	TORONTO	Mox-		TORONTO	Mon-
	BASIS	TREAL		BASIS	TREAL
FROM	(See Table	%	From	(See Table	%
	52)	BASIS		52)	BASIS
AdamsInd.	400	98	ButlerPa.	Pittsburgh	(1)
Adams Mills. Ohio	Pittsburgh	95	CambridgeOhio	Ironton	95
Akron ³ Ohio	Pittsburgh	95	Cambridge City		
AlexandriaInd.	Indianapolis	100	Ind.	Indianapolis	98
AlvordtonOhio	375	93	CareyOhio	375	88
AshtabulaOhio	400	86	Cayuga Ind.	Terre Haute	108
AthensOhio	Ironton	95	CecilOhio	375	93
BedfordInd.	Louisville	108	CelinaOhio	425	93
Bellefontaine. Ohio	425	92	Chicago JctOhio	400	90
BereaOhio	400	86	ChillicotheOhio	450	95
Bowling Green			CincinnatiOhio	450	95
Ohio	350	86	Cleveland ² Ohio	400	86

# TABLE 53—Continued

### BASIS FOR MAKING RATES TO CANADIAN GROUPS FROM CENTRAL FREIGHT ASSOCIATION, WESTERN, AND SOUTHERN TERRITORIES

				10	
	TORONTO	MON-		TORONTO	Mon-
	BASIS	TREAL		BASIS	TREAL
From	(See Table	%	FROM	(See Table	_%
	52)	BASIS		52)	BASIS
Coal City Ill.	Essex	110	KnoxInd.	450	100
Columbus ³ . Ohio	450	92	KokomoInd.	Indianapolis	100
Columbus Grove			Kouts Ind.	450	100
Ohio	400	88	LaCrosse Ind.	450	100
Connellsville, Pa.	Connellsville	(*)	Ladoga Ind.	Terre Haute	108
Danville	Danville	108	Lafavette Ind.	Indianapolis	108
Davton Ohio	450	92	Laketon Ind.	425	100
Decatur Ind.	425	98	Lancaster Ohio	450	95
Defiance Ohio	375	93	La Otto Ind	400	98
Deshler Ohio	375	86	La Porte Ind	425	96
Dunkirk Ohio	400	88	Latty Ohio	400	93
Fast Chiesgo Ind	450	100	Lebanon Ind	Indianapolia	108
Elkhart Ind	400	90	Lima Ohio	400	88
Flyrig Ohio	400	86	Loudon Ohio	450	02
Freez III	Feroy	110	Louisvillo Kr	Louisville	108
Evonevillo Ind	Evanevilla	110	Madicon Ind	Louisville	108
Eindley Obio	375	87	Magoo Ind	495	100
Forest Ohio	400	66	Malcolm Ind.	Fecor	110
Fort Wayne Ind	400	00	Mancholds Obio	400	02
For Wayne. Ind.	Donvillo	100	Mariotto Ohio	Ironton	05
Fuendalin Ohio	150	100	Marian ³ Ohio	400	00
Calaton Ohio	275	90 96	Martol ³ Ohio	400	02
Calion Ohio	400	00	Marceillon ³ Ohio	Pittshurgh	05
Gallinolis Ohio	Irontou	05	Medina Ohio	425	99
Gromeastle Ind	Torro Hauto	108	Michigan City	400	]
Greenville Ohio	450	93	Ind.	450	100
Greenwich Ohio	400	90	Middleport Ohio	Ironton	95
Hagerstown, Ind.	Indianapolis	98	Millersburg . Ind.	425	96
Hamilton Ohio	450	95	Minerva Ohio	Pittsburgh	95
HammondInd.	450	100	Minooka Ill.	Essex	110
Hartford Ind.	450	98	Mitchell Ind.	Louisville	108
Haskells Ind.	425	100	Momence Ill.	450	108
Hibbardlnd.	450	100	Mt. Gilead ^a .Ohio	425	92
HuntingtonInd.	425	100	Mt. VernonInd.	Evansville	110
HuronOhio	375	86	Mt. Vernon ³ . Ohio	425	95
IndianapolisInd.	Indianapolis	100	New Albany Ind.	Louisville	108
IrontonOhio	Ironton	95	Newark ³ Ohio	450	95
JamestownPa.	Pittsburgh	(1)	NewcastleInd.	Indianapolis	98
Jeffersonville Ind.	Louisville	108	New CastlePa.	Pittsburgh	(1)
JohnstownPa.	Johnstown	(6)	New Comerstown		
Justus ³ Ohio	Pittsburgh	95	Ohio	Pittsburgh	95
Kankakee Ill.	450	108	New Haven Ind.	400	98
Kendallville. Ind.	400	98	New Lexington		
Kent Ohio	Pittsburgh	95	Ohio	Pittsburgh	95
Kenton Ohio	400	88	New London Ohio	400	90
Kingsbury Ind.	425	96	New Paris Ind.	425	96
Kingsland Ind.	425	98	New Philadelphia	DUCIN	07
Knightstown Ind.	Indianapolis	100	Pa.	Fittsburgh	95

#### TABLE 53-Continued

1	TOPONTO	Mox.		TORONTO	Mox-
1	RASIS	TREAL		BASIS	TREAL
Epoy	(See Table	0%	FROM	(See Table	C/c
PROM	52	BASIS		52	BASIS
Newton	Evansville	110	Seymour Ind.	Louisville	108
Newton Ind.	425	100	Shelby Ohio	400	90
N. Baltimore Ohio	375	86	Shenango Pa.	Pittsburgh	(1)
N. Judson Ind.	450	100	Sidney Ohio	425	92
N. Manchester			South Bend. Ind.	400	96
Ind.	425	100	Sullivan Ind.	Evansville	110
N. Marion Ind.	450	100	Switz City Ind.	Louisville	100
N. Vernon Ind.	Louisville	108	TiffinOhio	375	88
Norwalk Ohio	375	86	Toledo Ohio	300	84
Oak Harbor. Ohio	350	86	Tontogany Ohio	350	86
Olney	Evansville	110	Troy Ohio	450	92
Oxford Ind.	Danville	108	Uhrichsville ³		
Painesville .Ohio	400	86	Ohio	Pittsburgh	95
PeruInd.	450	100	Union CityInd.	450	94
Phalanx Ohio	Pittsburgh	(1)	UrbanaOhio	450	92
PiquaOhio	450	92	Valparaiso Ind.	425	100
PittsburghPa.	Pittsburgh	(1)	Veedersburg . Ind.	Danville	108
PlymouthInd.	450	100	Vermillion . Ohio	400	86
PorterInd.	450	100	Versailles Ohio	450	93
Portland Ind	450	96	Wabash Ind.	450	100
Portsmouth Ohio	Ironton	95	Warren Ohio	Pittsburgh	(1)
RichmondInd	450	96	Westfield Ind.	Indianapolis	100
RobinsonIll	Evansville	110	Wheeling. W. Va.	Pittsburgh	(1)
Rochester Ind	450	100	XeniaOhic	450	92
Rochester Pa	Pittsburgh	(1)	Youngstown Ohio	Pittsburgh	(1)
Rushville Ind	Indianapolis	s 100	Zanesville ² . Ohio	Pittsburgh	95
Sandusky Ohio	375	86	11		1

BASIS FOR MAKING RATES TO CANADIAN GROUPS FROM CENTRAL FREIGHT ASSOCIATION, WESTERN, AND SOUTHERN TERRITORIES

¹ Pittsburgh rates. ² The rates from Cleveland to Montreal not to exceed the rates from Pittsburgh. ³ To base points intermediate to Buffalo or Montreal; Lancaster, Ohio, rates not to be exceeded. ⁴ Connellsville rates. (See page 302.) ⁵ Johnstown rates. (See page 302.)

ing in Table 52 would be applied, whereas if rates from Alexandria, Ind., were desired, the Indianapolis scale would be applied. In the application of this basis the long-and-short-haul clause has been generally observed, few, if any, deviations therefrom occurring in the application of the basis.

From Pittsburgh, Pa., and related points, specific rates have been checked in by the initial lines to the base points

previously described, which are indicated in the following table, and are applied by way of the Niagara Frontier.

# TABLE 54

MINIMUM CLASS RATES FROM PITTSBURGH, PA., AND RELATED POINTS

	RATES	IN	CENTS	PER	100	POUNDS
FROM PITTSBURGH TO			Clas	sses		
	1	2	3	4	ł	5 6
Windsor, Sarnia, Belle River, Comber, Kingsville, London, Toronto, and						
Hamilton, Ont	54.5	47	36	25.5	2	1 18

This basis places the entire Canadian territory involved on the same footing from the Pittsburgh group.

Using the foregoing rates as a basis, rates from Connellsville and Johnstown, Pa., are made the following arbitraries over the rates from Pittsburgh:

Classes	1	2	3	4	5	6
Connellsville, Pa., rate	5	4	3	2	2	2
Johnstown, Pa., rate	10	8	6	5	4	3

# CHAPTER XXVIII

### CANADIAN FREIGHT RATES-Continued

Adjustment of Rates to Base Points East of Toronto

Taken as a whole, this adjustment of rates for traffic moving between points in the United States does not materially differ from that employed in constructing rates from and to trunk line points, on the one hand, and to and from Central Freight Association Territory, on the other.

The Montreal rates are the base factor. The rates to other points in Canada, east of Toronto, are made with relation to the Montreal rates, either on a percentage basis or by the addition of fixed differentials.

In Table 55 we have reproduced the bases authorized by the Canadian Freight Association for the construction of rates from western points of origin to the more important base points in the Dominion of Canada, east of Toronto.

In order to clearly illustrate the application of the various formulas for the construction of rates contained therein, each item will be taken up, and an illustration given of its application in the construction of specific rates.

Since the same percentage adjustment employed to New York does not hold good with respect to the construction of rates to Montreal on traffic destined to that point proper, that is when not destined beyond, the first step in the application of this basis for rates is the con-

# TABLE 55

# BASIS FOR MAKING RATES TO CANADIAN GROUPS FROM CENTRAL FREIGHT ASSOCIATION, WESTERN, AND SOUTHERN TERRITORIES

	BASIS (For st	FOR GEN tandard	eral Mei rates see	RCHANDISE Table 50)	BASIS AND 1	for 1 Dress	LIVE SED M	STOCK EATS,		
	RATES	IN CENT	'S PER 10	0 Pounds	CABLOADS (For standard rates					
To GROUPS		Cl	asses		se	e Tab	le 50	))		
	1	2 3	4	5 6	Fro poi tak	om nts ing	Rates			
	From York rules to M Tabl as a	points x class r s, the fo fontreal le <b>53</b> () ap maximu	taking a cates, und llowing p from the oply, subje im to sta	percenta ler Centra percentages e same po ect to the tious in th	ge of al Frei s of th ints m current ne dire	Chica ight a sta ade o Mon et lin	ago-to Assoc ndaro on ba treal e	o-New iation l rate sis of rates		
	Under		79 to	Over		79	to	Over		
	78%	78%	100%	100%	78%	100	%	100%		
Agineourt, Ont. Myrtle, Ont}	74%	68%	74%	76%	68%	74	%	76%		
Cobourg, Ont) Lindsay, Ont)	80%	76%	80%	84%	87%	90	%	91%		
Peterboro, Ont. Cent. Ont. Jet., Ont Trenton, Ont Sharbot Lake, Ont Napanee, Ont Kingston, Ont	90%	87%	90%	91%	96%	96	%	96%		
Brockville, Ont. Prescott, Ont. Smith's Falls. Ont.	Montro	eal curre	nt rates		78 and	% over	Mo cui r:	ntreal rrent ates		
Carleton Place, Ont. Ottawa, Ont.	Montre	al stand	ard rates		78 and	% over	Mo sta r	ntreal ndard ates		
Montreal, Que.	From point and stand ply, to I From	Chicago ts not sp from pe dard rate subject f Soston as Ohio,	and oth- becified in oints in es to New to the cur a maxi Western	er Illinois n Table 53 Michigan 7 York ap rrent rates mum Pennsyl	78 and	over	Boston current rates			
	vania nois rates base class	a, Indiar and I s are m s of Cl s rates as	ia, and e Kentucky ade on licago-to- s shown i	ertain Illi stations percentage New York n Table 53	- - 					

### CANADIAN FREIGHT RATES

#### TABLE 55—Continued

# BASIS FOR MAKING RATES TO CANADIAN GROUPS FROM CENTRAL FREIGHT ASSOCIATION, WESTERN, AND SOUTHERN TERRITORIES

To Groups	BASIS FOR GENERAL MERCHANDISE (For standard rates see Table 50) RATES IN CENTS PER 100 POUNDS Classes	BASIS FOR B AND DRESS CARL (For stand see Tab	ED MEATS, OADS lard rates le 50)	
	1 2 3 4 5 6	From points taking	Rates	
St. Johns, Que. Sherbrooke, Que.	7 6 5 4 3 2 over standard rates to Montreal, except that from points taking 78% and over of Chicago-to- New York rates, the current rates to Boston will be the maximum	78% and over	Boston current rates	
Quebec, Que.③ Point Levi, Que.③	141210865over the current Montreal rates, as the case may be	78% and over	Boston standard rates	
North Sydney, N. S.③	15 12 $10\frac{1}{2}$ 9 $7\frac{1}{2}$ 6 over New York domestic rates, ex- cept that from points taking less than 78% of Chicago-to-New York rates, the 78% rates will be the minimum			
Mont Joli, Que.②	$\begin{array}{cccccccccccccccccccccccccccccccccccc$			
St. John, N. B.(2)	30 26 23 19 15 13 over the standard rates to Mon- treal④			
Halifax, N. S.@	32 28 24 20 16 14 over the standard rates to Mon- treal(4)			
Mulgrave, N. S.@	36 32 27 23 18 16 over the standard rates to Mon- treal ⁴			
Sydney, N. S.2	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	-		

OThese percentage groupings are those under the Chicago-to-New York per-centage system. To find the rates from Toledo (a 78% point) to Agincourt, first obtain the rate, Toledo to Montreal, on basis of 84 per cent of the Chicago-to-Montreal rate, as per Table 50, then ascertain 68 per cent thereof. The result is the Toledo-to-Agincourt rate. (a) Above bases will apply only where through percentages are in effect. Where there are no through percentages the traffic is subject to the current local rates from Montreal to destination. (a) Applicable only on traffic destined to points in Newfoundland. (b) Rates on grain and grain products, carloads, to the following base points: Quebec and Point Levi (proper), Mont Joli, St. John, Halifax, Mulgrave, and Sydney are made up by adding the sixth-class arbitraries shown above to the current Montreal (local) rates.

struction of rates from various Central Freight Association points to Montreal.

An inspection of Table 53 will disclose many of the important base points in Central Freight Association Territory. In the column headed "Montreal per cent basis" appear certain figures which represent the percentages of the Chicago-Montreal rates, which such points are to be given in establishing through rates therefrom. Toledo, Ohio, although a 78 per cent point, in the construction of rates from Toledo to New York, is assigned to the 84 per cent group for the construction of rates to Montreal. Cincinnati, while an 87 per cent point in the United States adjustment, takes 95 per cent in the construction of rates to Montreal. Indianapolis, a 93 per. cent point, in the construction of rates to New York, takes 100 per cent in the construction of rates to Montreal. The rates obtained under these formulas are known as "standard" rates.

# EXCEPTIONS TO APPLICATION OF CANADIAN RATE BASIS

(1) When rates to eastern United States points are reduced below the bases provided in the Official Classification, or below standard rates, the rates to Canada shall not be reduced, provided that from points taking 78 per cent of Chicago-New York rates, or higher, the Buffalo rates may be applied to points shown in Table 51 as taking Buffalo rates, or lower, and the rates to Portland, Me., or Boston, Mass., shall be the maxima to intermediate stations in the direct line of the Grand Trunk and the Canadian Pacific railways in Ontario and Quebec, shown in Table 55.

(2) From points east of Cincinnati, shown as taking Pittsburgh rates, if the traffic is forwarded via Detroit to stations east of Toronto, the through rate must not, in any case, be less than from Cincinnati. Traffic from points taking Pittsburgh, Connellsville, or Johnstown rates must be forwarded via the Niagara Frontier unless specially authorized via Detroit. Shipments from Cleveland, Ohio, may be forwarded either via the Detroit or the Niagara Frontier, from points east of Cleveland, via the Niagara Frontier, and from other points via Detroit.

(3) To points in the vicinity of Detroit, Port Huron, or the Niagara Frontier, in the event that the sum of local rates, plus transfer charges, if any, would be less than the basis provided herein, the sum of the local rates plus such transfer charges, if any, is to be applied.

(4) From points taking less than 78 per cent of Chicago-New York rates, the 78 per cent rates are to be the minima.

(5) Upon traffic to Canadian territory, from points south of the Ohio River, via the crossings east of Cincinnati, the proportion accruing to the roads north of Detroit shall be their proportion of the Cincinnati tariff rates.

(6) Upon traffic from the south via Cincinnati (Louisville proper excepted), tariff rates are to be applied from Cincinnati; in other words, Canadian railways will not accept a division of proportional rates to Canadian territory. In like manner, on business from points south of the Ohio River, and via Louisville, Evansville, Cairo, and East St. Louis, or the Ohio River Crossings west of Cincinnati, destined to all points in Canadian territory, tariff rates in effect from these points proper shall be applied.

This basis of rates is applicable only between points and via routes where through percentages are in effect. Between points from and to which there are no through percentages, traffic is to be subject to through tariff rates from or to the nearest prorating junction point.

Under the foregoing, if it were desired to construct the rates from Toledo, Ohio, to Montreal, it would be

done by taking 84 per cent of the Chicago-Montreal rates, obtaining the following result:

These rates are materially higher on each class than are the rates from Toledo to New York, made under the United States adjustment.

It will be noted in the exceptions to the application of these bases, however, that from points taking 78 per cent and higher of the Chicago-to-New York rate, such rates as are established to Portland, Me., or Boston, Mass., are to be applied to intermediate stations on the direct line of the Canadian Pacific or the Grand Trunk railways, and as Montreal is on the direct line, it is necessary to determine what the rate is from Toledo to Boston to see whether or not the Montreal rate as obtained above exceeds the Boston rate.

It will be recalled that the Boston rate from 78 per cent territory is made by adding the following fixed differentials:

Classes	1	2	3	4	5	6
Rates	7	6	5	4	3	2

to the Toledo-New York rates which are as follows:

Classes	1	2	3	4	5	6
Rates	70	61.5	47	33	28	23.5

This results in the following through rates:

Classes	1	2	3	4	5	6
Rates	77	66.5	52	37	31	25.5

which are in all cases higher than the Montreal rates obtained under the adjustment just set forth. Generally speaking, it may be said that the current rates only affect such commodity rates as are established on the bases of rates which are materially less than those obtaining under the application of the Official Classification. For example, the Official Classification provides a sixth-class rating, with a minimum weight of 36,000 pounds, on shipments of pig lead, which is the basis that would apply to Montreal under the application of the standard rates. Central Freight Association legislation, however, authorizes the publication of specific commodity rates, based on a rate of 19 cents, Chicago to New York. The rates to Boston from Detroit under this adjustment would be the New York rate of 15 cents plus the Boston arbitrary of 2 cents, or 17 cents, against the standard class rate to Montreal of 22.1 cents. Consequently, the Detroit-Boston rates would be applied on this commodity to Montreal and the standard basis disregarded, as the application of Boston current rates is authorized.

Agincourt, Ont., and Group.—This particular adjustment conforms closely to that employed in the construction of rates under the domestic basis to Rochester, Syracuse, and Utica, and it involves the application of the double percentage system in that it is necessary first to construct the rates from the originating points to Montreal, as indicated in the preceding section of this chapter, and then to take the percentage, indicated in Table 55, of the amount thus obtained.

For example, under this principle the first-class rate from Cincinnati to Agincourt would be constructed by taking 95 per cent of the Chicago-Montreal rate of 90 cents, obtaining 85.5 cents as the rate from Cincinnati to Montreal, and then taking 74 per cent of this amount, which results in 63.5 cents as the rate from Cincinnati to Agincourt.

Lindsay, Ont., and Group.—What has been said with respect to the construction of rates to Agincourt holds good with relation to this adjustment, with the exception that there is a variance in the percentages assigned to the various percentage groups of origin.

For example, taking Louisville, Ky., as a representa-

tive point of origin, Table 53 shows that to Montreal rates are made 108 per cent of the Chicago-Montreal rates. First class rate under this formula is 97.2 cents, as the Louisville-Montreal rate, and 91 per cent of this rate yields 88.5 cents, or the Louisville-Lindsay rate.

Brockville, Ont., and Carlton, Ont., and Points Taking the Same Rates.—What has previously been said with respect to the construction of rates to Montreal is true, in so far as the construction of class rates is concerned, of rates to points in this group. The rates are the same as the Montreal rates in practically all instances, except from some short-haul points adjacent to the Niagara Frontier from which, it occasionally happens, the rates to Boston are less than those that obtain to Montreal.

Quebec, Que., and Points Taking the Same Rates.— The arbitraries indicated in the table are to be added to whatever rates may be established to Montreal, in so far as local traffic to Quebec and Quebec rate points are concerned.

For example, St. Louis, Mo., takes 117 per cent of the Chicago-New York rates in establishing rates to Montreal, this results in a rate of \$1.05 as the first-class rate, St. Louis to Montreal. Adding 14 cents, the first-class arbitrary indicated in Table 55, \$1.19 is obtained as the rate from St. Louis, Mo., to Quebec, Que.

Mont Joli, Que., and Points Taking the Same Rates.— As Quebec, Que., is the last station on the direct lines of the Canadian Pacific and Grand Trunk railways, the rates established to Boston as current rates to Montreal are no longer observed, and existing rates are fixed only with reference to standard rates to Montreal.

Rates from St. Louis to Mont Joli would be made the same as in the Quebec illustration, substituting for the Quebec arbitraries those indicated in the table for Mont Joli.

St. John, N. B., Halifax, N. S., and Points Taking the

Same Rates.—As these points are a greater distance east than Mont Joli, it is only natural to find that, although the same principle is employed in constructing rates, the arbitraries are slightly increased to compensate the carriers for the difference in the hauls involved. Such difference in hauls, however, by no means approximates the difference existing in the local charges between the same points.

A representative line of rates from Chicago to these groups appears in the following tabulation:

Cla	sses	1	2	3	4	5	6
То	St. John, N. B	120	105	83	61	51	43
То	Halifax, N. S	122	117	84	62	52	44

Mulgrave, N. S., and Sydney, N. S., and Points Taking the Same Rates.—These two points mark the furthermost eastern termini of any rail carriers serving the North American Continent, and as such it is only natural that the arbitraries employed in adjusting rates thereto should be the highest.

The following tabulation indicates rates published by the carriers from Chicago:

Clas	sses	1	2	3	4	5	6
To	Mulgrave, N. S	126	111	87	65	54	46
то	Sydney, N. S	130	114	90	67	56	48

From Pittsburgh, Pa., and related points, specific rates have been checked in to the various Canadian base points as indicated in Table 56.

From Johnstown and Connellsville, Pa., rates are made by adding the arbitraries indicated in Table 57 to the Pittsburgh rates shown above.

# Commodity Rates

Table 58 showing the adjustment applicable on pig iron is reproduced as a matter of information. Under the basis set forth in this table the rate per ton (not the

### TABLE 56

MINIMUM RATES FROM THE PITTSBURGH GROUP TO CANADIAN POINTS SPECIFIED VIA NIAGARA FRONTIER

	RATE	S IN CE	NTS P	ER 100	Poun	DS
FROM PITTSBURGH TO			Class	es		
	1	2	3	4	5	6
Agincourt, Myrtle, OshawaOnt.	63.5	55	42.5	29.5	25.5	21
CobourgOnt.	69	59	46	32	28	23
Lindsay, Peterboro, Cent. Ont. Jet., TrentonOnt. Sharbot Lake, Napanee, Kingston.	77.5	67	51,5	35.5	30	25.5
Brockville, Prescott, Smith's Falls. Ont. ( Carleton Place, OttawaOnt. ( MontrealOne.	78.5	67.5	52	36	30	26
St. Johns, Sherbrooke, Que.	86.5	74.5	57.5	41	33.5	28.5
Quebec, Point LeviQue.	94.5	81.5	63.5	45.5	37	31.5
Mont JoliQue.	108.5	94	75	54.5	45	38
St. JohnN. B.	113	97.5	78.5	58	47.5	41
HalifaxN.S.	115.5	100	79.5	59	48.5	42
MulgraveN.S.	120	104.5	83	62.5	51	44.5
SydneyN.S.	124.5	108	86.5	65	53	46.5

equivalent rate per 100 pounds) must in all cases be used in computing rates to points taking a percentage of the rates to Montreal.

DISPOSITION OF FRACTIONS OVER THE EVEN 10 CENTS

21/2 cents and under-Omit. Over 21/2 to 71/2 cents-Add 5 cents. Over 71/2 cents-Add 10 cents.

### TABLE 57

ABBITRARIES OVER PITTSBURGH RATES APPLICABLE FROM THE JOHNSTOWN AND CONNELLSVILLE GROUPS TO CANADIAN GROUPS SPECIFIED IN TABLE 56

	RATE	S I	N CEN	NTS	PER	100		
12			Pous	DS			IRON COM	MODITIES
FROM			Class	ses			L. C. L.	C. L.
	1	2	3	4	5	6		
Connellsville, Pa	ō	+	3	2	2	2	2	11
Johnstown, Pa	10	8	6	5	4	3	2	11

# CANADIAN FREIGHT RATES

#### TABLE 58

# BASIS FOR RATES ON PIG IRON IN CARLOADS FROM POINTS SPECI-FIED TO CANADIAN BASE POINTS

		F	ROM GROUPS			
To GROUPS	Chicago, Ill. Louisville, Ky.	Detroit, Mich.	Cincinnati, O. Cleveland, " Ironton, " Jackson, Mahoning, " Wellston, " Columbus, "	Evansville, Ind.	East St. Louis III.	Cairo, Ill.
Windsor, ① Sarnia①Ont. Belle River, ① Comber①.Ont. Kingsville, ① Forest①Ont. London, ① Hamilton①Ont.	٩	4	٩	(4)	4	4
Toronto@Ont.	50 cents rates, s mum	per gr ubject	oss ton over to sixth-clas	curren s rates	t Buffa as a m	lo axi-
To the following p centages of the cur	oints, the rent Mon	under treal r	mentioned ates apply	per-		
Agincourt, (2) Myrtle (2) Ont. Oshawa (2) Ont.	74%	68%	74%	76%	76%	76%
Cobourg ² Ont.	80%	76%	80%	840%	84%	840%
Lindsay, ? Peterboro ? Ont. Central Ontario Junct ? Ont. Trenton, ? Sherbot Lake ? Ont. Napanee, ? Kingston ? Ont.	90%	80%	90%	91%	91%	91%
Brockville, Prescott Ont. Smith's Falls Ont. Carleton Place, Ottawa Ont.	5	5	5	3	5	٩
Montreal(3)Que. St. Johns,(3)Sherbrooke(3).Que.	6	6	6	6	6	(6)
Quebec, @ Point Levi@Que. St. John, @ McAdam Junct.@N.B. Halifax@N.S. Mulgrave@N.S. Sydney@N.S.	\$1.00 2.00 2.00 2.40 2.80	Per gro	oss ton over rates from al	current l origin	Montr points.	eal

On traffic from south of the Ohio River, forwarded via Cincinnati, Ironton, or other Ohio River Crossings east of Cincinnati, the Cincinnati proportional rate to Buffalo applies. On traffic from south of the Ohio River, forwarded via Cincinnati, Ironton, or other Ohio River Crossings east of Cincinnati, the local rate from Cincin-nati must be used as a basis, subject to the current Montreal rate as a maximum to intermediate base points. On traffic from south of the Ohio River, forwarded via Cincinnati, Ironton, or other Ohio River Crossings east of Cincinnati, the proportional rate to Boston applies.

OCurrent Buffalo rates apply.
 OCurrent Montreal rates apply.
 OCurrent Boston rates apply.

# CHAPTER XXIX

#### **CANADIAN FREIGHT RATES-Continued**

# TRUNK LINE RATES

The general outline of the territory covered by the variously numbered percentage groups in the establishment of rates from eastern points of origin to points in Canadian territory is indicated on Map 9, Atlas of Railway Traffic Maps. To distinguish these groups from similarly numbered groups in the United States, letter suffixes have been employed.

As concerns the haul from the north port points of origin, namely, New York, Philadelphia, and Baltimore, it will be noted that it is rather north and south than east

#### TABLE 59

CLASS RATES FROM NEW YORK RATE POINTS VIA STANDARD ALL-RAIL LINES AND NIAGARA FRONTIER, OGDENSBURG, OR ROUSE'S POINT, N. Y., TO CANADIAN PERCENTAGE GROUPS

	m D.	RA	TES I	V CEN	TS PER	r 100	Pount	os
FROM FLOTTERN CROUP	TO PERCENTAGE			(	llasses			
LASTERN GROUP	GROUPS		1	.,	3	4	5	6
	$ \begin{array}{c} 76-C \\ 76-D \end{array} $		68.5	60	45.5	32	27.5	23
~	$\left.\begin{array}{c}78\text{-C}\\78\text{-D}\end{array}\right\}$		70	61.5	47	33	28 [.]	23.5
	80-C		72 - 2	63	48	33.5	29	24
New York, N. Y.	82-C		74	65	49	34.5	29.5	24.5
	84-C		75.5	66.5	50.5	35.5	30	25
	87-C		78.5	68.5	52	36.5	31.5	26
	89-C		80	70.5	53.5	37.5	32	26.5
	93-C		83.5	73.5	56	39	33.5	28
	100-C		90	79	60	42	36	30

and west. The distances from Baltimore and Philadelphia, in general, are in excess of those from New York. Consequently, as opposed to the adjustment in the United States, the rates from these points of origin to the greater part of Canadian percentage territory are made the same as the New York rates and they are accorded no differentials.

To illustrate the rates established from New York and New York rate points to various percentage groups in Canada, Table 59 indicates the standard all-rail rates applicable via the direct lines.

Collingwood, Ont., on the south shore of the Georgian Bay, appears in the 89-C percentage group, and 89 per cent of the New York-Chicago rate yields the following rates:

Classes	1	2	3	4	5	6
Rates	8.0	70.5	53.5	37.5	32	26.5

From the above it is seen that the construction of rates from New York is not materially different when obtained with respect to establishment of rates under the domestic adjustment.

# Adjustment of Rates from Other Eastern Points of Origin

As in the domestic adjustment, the rates from other seaboard points and interior base points are made with respect to the rates from New York set forth in the preceding table. Table 60 has been prepared to indicate the adjustment employed at this time in establishing such rates.

Boston, Mass., and Points Taking the Same Rates.—Of the all-rail adjustment, rates from Boston are made to all Canadian percentage territory the same as the rates currently in effect from New York.

# TABLE 60

### BASIS OF WESTBOUND RATES FROM THE EASTERN BASING POINTS SPECIFIED TO CANADIAN PERCENTAGE GROUPS 76-C TO 100-C¹

_	FROM	To	ARBITH	RARIE	S IN (	CENT	S PER	100	
LEN	EASTERN	PERCENT-			Class	105			REMARKS
F	GROUPS	GROUPS		2	3	4	5	6	
1	Boston, Mass.	76-C to 100-C							New York rates
2	Albany, N. Y.	76—C to 100—C							New York rates less 20% of New York- to-Chitago rates
		76-C	4.4	3.6	1.9	1.3	1.3	1.5	
		76-D	6.4	4.6	2.9	2.3	2.3	1.5	
		78-C	6	õ	3	2	2	2	Less than
	Ogdensburg, N. Y.	78–D	8	6	4	3	2	2	from New
	United States	80-C	7.5	6	4	2.7	2.6	2	York to
	only)	82-C to							same points
3		and ineluding 100–C	8	6	4	3	3	5	
		76-C	6.9	5.9	3.9	3	2.9	2	
	Ogdensburg, N. Y.	76-D	8.9	6.9	4.9	4	3.9	2	
		78-C	8.5	7.3	5	3.7	3.6	2.5	
	Athelstan,	78-D	10.5	8.3	6	4.7	4.6	2.5	T these
	Beauharnois.	80-C	10	8.6	6	4.4	4.2	3	from New
	Bellevue, Que.,	82-C	10.6	9	6.1	4.2	3.8	2.6	York to
1	Berwick, Ont., Black River	84-C	11.2	8.4	6.1	4,9	4.5	3.1	same
	Ont., and	87-C	11.6	8.4	5.7	5	4.4	2.9	points
	other points	89-C	11.1	8.8	5.7	4.8	4	3.4	
	in Canada)	93-C	11.3	9.5	5.8	4.2	4.3	3.5	
		100-C	11.8	9.3	6.5	4.8	4.5	3.3	
4	Syracuse, N. Y.	76-C to 100-C		1					70% of New York rates
		76—C	-						New York rates
		76—D	4.4	4.6	.9	1.3	1.3	1.5	Less than New York
5	Philadelphia and Scranton Pa.	78—C							New York rates
		78—D	6	6	2	2	2	2	Less than New York
		80—C to 100—C							New York rates

#### CANADIAN FREIGHT RATES

#### TABLE 60—Continued

#### BASIS OF WESTBOUND RATES FROM THE EASTERN BASING POINTS SPECIFIED TO CANADIAN PERCENTAGE GROUPS 76-C TO 100-C

TEM	FROM EASTERN CROUTS	To Percent- Age	Arbitraries in Cents per 100 Pounds Classes						Remarks
	GROUPS	1	2	3	4	5	6		
		76—C							New York rates
6 1	Baltimore, Md., Williamsport, Pa.	76—D	6.4	6.6	1.9	2.3	2.3	2.5	Less than New York
		78—C							New York rates
		78—D	8	8	3	3	3	3	Less than New York
		80-C to 100-C							New York rates

¹ Compiled from Revised Percentage Bases for Through Westbound Freight Rates (supplements 1-12) and from N. Y. C. & H. R. R. E. freight tariff I. C. C. No. B-18971 and supplements 23 and 30.

Albany, N. Y., and Points Taking the Same Rates.— Here we have the same formula that is embodied in the construction of westbound rates from Albany to western percentage groups, in that it is first necessary to construct the rates from New York to the desired percentage group and from this amount to deduct 20 per cent of the New York-Chicago rates.

Ogdensburg, N. Y., and Points Taking the Same Rates.—Rates from Ogdensburg to all Canadian percentage territory are the arbitraries indicated under such rates as may be established from New York. The 5 per cent increase in rates granted in 1914 by the Interstate Commerce Commission has caused a split in this group, owing to the fact that some stations fall within Canadian boundaries. Therefore, from such stations, the traffic is wholly local to Canada, and is not affected by the advance. Consequently, the rates from the

Canadian origin points in the Ogdensburg group to the destinations in groups 76-C to 100-C, inclusive, are less than the rates from New York State origin points in the Ogdensburg group to the same destinations.

Syracuse, and Points Taking the Same Rates.—The percentage employed in the establishment of rates from Syracuse to western percentage groups in the Dominion of Canada is the same as is employed in establishing rates to similar percentage groups in the United States. It is appropriate, in this instance, to call attention to the situation of Ogdensburg and Syracuse with respect to the Canadian percentage groups, in that from points bordering the shores of Lakes Erie and Ontario through water routes are available by way of which charges are in effect which are materially less than any that could be profitably maintained by the rail carriers from this territory.

Philadelphia, Baltimore, and Points Taking the Same Rates.—To the greater part of Canadian percentage territory, New York rates, as previously stated, are applied from Philadelphia and likewise from Scranton, Pa. We find that in order to preserve the integrity of rates to points west of Detroit certain differentials are conceded under New York rates to points in percentage groups 76-D and 78-D, as they are in direct line to Detroit on movements by way of Niagara Frontier. This, however, obtains only with respect to points in Canadian territory which are on a direct line between the Niagara Frontier and Detroit.

Baltimore, Md., and Williamsport, Pa.—The Philadelphia rate adjustment is reflected in that applying from Baltimore. Precisely the same procedure is involved with the exception of an increase in the differentials or arbitraries applying to points in 78-D and 76-D percentage groups.

# RATES VIA DIFFERENTIAL ROUTES

The adjustment of rates to the Canadian points just given applies in connection with the standard all-rail routes. There are many other routes available and in active competition with rail lines. It is well to consider the adjustment of rates that is employed in connection with such other routes.

There are important routes operated by the navigation companies plying upon the Hudson River with rail-andwater connections by way of Rouses Point, N. Y. They influence the movement of more or less competitive traffic, but as a large portion of their traffic is local, these lines or routes have held their rates up to approximately the same figures as those obtaining via the all-rail routes.

Further routes are that via Long Island Sound and New London, Conn., in connection with the Central Vermont Railway, and that via Boston, Mass., or Portland, Me., in connection with subsidiary lines of the Canadian railways which are in each instance accorded substantial differentials under the all-rail rates, the present-day differentials, except to group 76-C, being the following amounts per hundred pounds:

less than the existing all-rail rates. To points in group 76-C the differentials are as follows:

Via many of these river and rail and sound or ocean and rail routes the rates from New York to any of the Canadian percentage groups would be made by deducting

these differentials from all-rail rates established to the particular group in question.

For example, rates by way of Portland, Me., to points in the 93-C per cent group would be as follows:

To Eastern Basing Points.—The all-rail rates to points lying east of the Canadian percentage groups are established to the more important points such as Montreal, Que., and Carleton Place, Ont., and the rates thus obtained are blanketed over considerable areas of territory. From New York to Montreal and Ottawa, via the New York Central Railroad, the rates are on the basis of 73 per cent of the rates obtaining from New York to Chicago, which results in the following rates:

While via the New York, New Haven & Hartford Railroad, thence via the Boston and Maine Railroad and the Canadian Pacific Railway, the rates are on a lower basis, namely, as follows:

The rates published to apply via boat lines on the Hudson River to Albany or Troy, thence by rail, are as follows:

To Carleton Place the adjustment via certain routes is at present 76 per cent of the rates, New York to Chicago, which are as follows:

Classes	1	2	3	4	5	6
Rates	68.5	60	45.5	32	27.5	22.9

While via the New York, New Haven & Hartford Railroad, etc., the rates are as follows:

Classes	1	2	3	4	5	6
Rates	72.5	63	48	34	29	24

To Quebee, owing to the length of the haul, the rates are adjusted on a somewhat higher basis than that which obtains to Montreal. The authorized percentage to employ is 78 per cent of such rates as may be established from New York to Chicago, which are as follows:

Via the New York, New Haven & Hartford, etc., the rates are as follows:

These are also the rates published by the Hudson River boat lines.

Rates to stations lying east of Quebec, in the northern part of Maine and in the maritime provinces of the Dominion are adjusted by the addition of arbitraries to the rates to the above points, such arbitraries approximating, in some degree, those employed in the adjustment from percentage territory.

From Philadelphia and Boston to Montreal, Carleton Place and Quebec, the same rates are established as are made from New York, thus placing wide areas of the country on a common footing with respect to transportation charges applicable on traffic to this territory.

### Southbound Rates

It is true, in general, that the grouping of Canadian territory is the same for the construction of rates from or to points in the United States. Such differences as

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exist, however, are determined by reference to and comparison of Maps 3 and 4 of the *Atlas of Railway Traffic Maps*. There is some difference, as will be observed in the fact that in Table 61 no rates are shown for the 76 per cent group.

### TABLE 61

CLASS RATES FROM CANADIAN PERCENTAGE GROUPS TO NEW YORK RATE POINTS

	FROM	RATES IN CENTS PER 100 POUNDS								
TO EASTERN GROUP	PERCENTAGE		Classes							
OROOF	GROUPS -	1	2	3	4	5	6			
	73	65	57.5	44	30.5	26.5	22			
	78 } 78-A (	70	61.5	47	33	28	23.5			
	80	72	63	48	33.5	29	24			
	82	74	65	49	34.5	29.5	-24.5			
New York, N. Y.	84	75.5	66.5	50.5	35.5	30	25			
,	85	76.5	67	51	36	30.5	25.5			
	87	78.5	68.5	52	36.5	31.5	26			
	89	80	70.5	53.5	37.5	32.5	26.5			
	93	83.5	73.5	56	39	33.5	28			
	100	90	79	60	42	36	30			

In Table 62 appears the basis that has been authorized to apply from various percentage groups to base points in the United States.

# DIFFERENTIAL RATES BETWEEN POINTS IN THE UNITED STATES

# (a) Ocean-and-Rail Rates

With respect to that traffic which has neither its origin nor destination in the Dominion and is moved by vessel from some of the termini of the Grand Trunk System lines to destination, and to offset the disadvantages occasioned by the greater haul involved, the slower time, and the element of insurance, certain differentials have been exacted by the Canadian lines as concerns this traffic. The differentials from New York being at the present time as follows:

less than the standard all-rail rates, on shipments to Chicago, Ill., which are in connection with the following routes from New York; the National Despatch, and the Eastern Steamship Corporation—Great Eastern Line. When navigation is closed upon the Great Lakes the figures are somewhat less than those shown above. The current figures are as follows:

Classes	1	2	3	4	5	6
Rates	10	8	6	4	4	3

on the respective classes given above.

From Boston and Boston rate points owing to the fact that no water haul is involved, the differentials are not as great as those employed from New York and New York rate points. The differentials offered at the present time being as follows:

Classes				 				 										•		1	<b>2</b>	3	4	5	6
Rates .	•	•	•	 	•	•	•	 	-	•	•		•	•	•	•	• •	•	•	5	4	3	3	2	1

less per one hundred pounds than the rates established by the standard all-rail lines to Chicago.

From Baltimore and Philadelphia, owing to the fact of the number of carriers involved in a haul by way of Canadian points and the length of the haul and to the fact that there are no lines affiliated with the Canadian lines, no differential is established via northbound routes from this territory, as it is not competitive with the Canadian lines which confine their operation to New England and New York rate points. TABLE 62

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BASES FOR CONSTRUCTION OF CLASS RATES FROM PERCENTAGE GROUPS IN CANADA TO EASTERN BASE POINTS

	REMARKS						<b>Base</b> rates						Over New York rates	78% of ChgoN. Y. rates Same as to New York	Arbitrary rates 96% of New York rates
NDS		R28												37	34
Pour		R26												37	33.5
ER 100		R25												52.5	48
INTS P	20	9	22	23.5	24	24.5	25	25.5	26	26.5	80 80	30	63	23.5	21
IN CE	Classe	10	26.5	50 80	29	29.5	30	30.5	31.5	32.5	33.5	96	63	80 61	23
ARIES		- uţi	30.5	33	33.5	34.5	35.5	36.5	36.5	37.5	39	сı Г	4	33	29.5
ARBITT		ಾ	44	47	10 17	49	50.5	51	52 .	53.5	56	60	10	11	10
ES OR		¢1	57.5	61.5	63	65	66.5	67	68.5	70.5	73.5	50	9	61.5	56.5
RAT		1	65	20	72	74	75.5	76.5	78.5	80	83.5	00	2	70	63
FROM	PER- CENTAGE	GROUPS	73	78 { 78-A {	80	82	84	85	87	68	93	100	73-100	$73 \\ 78-100$	73 78-100
	TO EASTERN GROUPS						New York, N. Y.						Boston, Mass.	Philadelphia, Pa. } Baltimore, Md. }	Albany, N. Y. Sehenectady,N.Y. Troy, N. Y.
	ITEM												¢1	es	41

# FREIGHT RATES-OFFICIAL TERRITORY

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BASES FOR CONSTRUCTION OF CLASS RATES FROM PERCENTAGE GROUPS IN CANADA TO

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2	To EASTERN (ROUPS Binghamton, N. Y. Utica, N. Y.	FROM PER- CENTAGE GROUPS 73 78-100 73-100	RATI 1	IO SI	ARBIT 3	RARIES	IN C lasses 5	ENTS 6	PER 10 R25	00 Pov R26	NDS 1128	REMARKS 90% of New York rates 87% of New York rates
	<pre>dmira, N. Y. Jorning, N. Y. Iornell N W</pre>	73-78 78A 80-100 73-78										85% 76% of New York rates 86% 80%
12 10 20	Vayland, N. Y. yracuse, N. Y. eneva, N. Y. swego, N. Y.	78A 80-100 73 78-78A 80-100	53.5	47	301 19	10	5.12	18	40	10.00	61	(68% of New York rates 82% Arbitrary rates 76% 30% 30% 30% New York rates
	tochester, N. Y. J. It. Morris, N. Y. Orpew, N. Y.	73 78-78.A 80-100	46.2	39.9	51 51	22.6	19.4	15.8	39.9	25.6	25.9	Arbitrary rates 68% 74% Jof New York rates
<u> </u>	gdensburg. N. Y.	$73 \\ 78-100$	1-	9	10	77	<i></i>	01				Arbitrary rates over New York rates

# CANADIAN FREIGHT RATES

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# (b) Lake-and-Rail Rates

The Grand Trunk Railway System in conjunction with its subsidiary lake line—the Canada Atlantic Transit Company—operating from Parry Sound on the Georgian Bay, through Lakes Huron, Michigan, and Superior to western ports, maintains a differential scale of rates which is adjusted on a much lower basis than obtains in connection with the direct rail lines and connecting steamship companies. Present day differentials from New York and New York rate points to Chicago, Ill., by way of this route, are as follows:

Classes	1	2	3	4	5	6
Rates	18	15	12	8	7	5

and from Boston they are the same.

A reference to Table 14 of this unit of study will indicate the current differentials obtaining at this time from and to various port cities by the respective routes.

The rates to other western points on the great lakes and points related thereto are adjusted in the same general way but not necessarily on the same figures.

The subject of lake-and-rail rates for domestic traffic, applying in connection with the adjustment discussed, should be considered in connection with this discussion.

In so far as the revision of charges established by the several carriers comprising the routes are concerned, interstate rates are subject to review and approval by both the Interstate Commerce Commission and by the Board of Railway Commissioners for Canada, either body having power to condemn as unreasonable such rates as may be established by the carriers.

Railway legislation in the Dominion has followed closely the trend of public opinion in the States, and various acts designed to correct abuses have been approved. Taken as a whole, however, it must be admitted that the governmenta! regulations applicable in the Dominion are by no means as stringent as those that obtain in this country

It should be borne in mind that the greater part of the Dominion is yet unsupplied with transportation facilities and, until such time as it is, it is unlikely that any provisions will be established which will tend to discourage the promotion and construction of such facilities.

# CHAPTER XXX

#### **CANADIAN FREIGHT RATES-Continued**

# RATES ON EXPORT TRAFFIC

It was shown in a preceding chapter that the rates on local traffic to Quebec, Que., and to seaboard cities in the maritime provinces of the Dominion of Canada are adjusted on the basis of arbitraries over the rates established to Montreal. The addition of these arbitraries in each instance results in higher rates than those that obtain to New York under the bases of rates established by carriers in the United States.

The British Government. by means of ship subsidies, has done much to encourage the building of vessels engaged in the transatlantic and transpacific trade, and both the east-coast and the west-coast ports are well supplied with cargo-carrying and passenger-carrying vessels of the liner type and of huge tonnage capacity. By reason of the low rates established these vessels have been successful in attracting to Canadian ports considerable export and import traffic originating at, or destined to, points in the United States.

The question of what rates apply to the ports is a very vexations one. The present adjustment was brought about only after a number of disastrons rate wars between the American carriers, on the one hand, and the Canadian lines, on the other. An agreement was, however, reached whereby rates to the Canadian ports were to be made not to exceed to any great degree the rates maintained to the American ports similarly situated. The subject of export and import freight rates, as far as the country as a whole is concerned, is discussed in the treatise devoted to export and import freight rates.⁽²⁾ For the purpose of this adjustment, however, it is sufficient to say that on export traffic by way of New York the same basis of rates applies as is applied on domestic traffic. Some few special bases, less than the domestic rates, are authorized to apply on shipments of grain, grain products, agricultural implements, and articles of iron and steel manufacture, which require a somewhat lower basis of rates in order to facilitate their movements.

To Boston the rates are made the same as to New York. This puts the port of Boston on an equality with New York, although it is more distantly located from western points of production, and under the domestic rate adjustment it takes certain arbitraries over New York.

Philadelphia and Baltimore are accorded the same differentials under New York that they are given on domestic traffic, and on this adjustment the Canadian export rate structure is hinged.

The basis currently in effect to Canadian ports is set forth in the following table.

### TABLE 63

### BASIS FOR RATES ON EXPORT TRAFFIC

To Groups	From	Basis for General Merchandise	Basis for Live Stock and Dressed Meats, Car- loads
Quebec, Que. Point Levi, Que. Portland, Me. St. John, N. B. W. St. John, N. B.	78% and over	New York current rates, except that from points taking less than 78% of Chicago-to-New York rates, the 78% rates will be the minimum	New York cur- rent rates

OFreight Rates: Western Territory, Part 4.

### TABLE 63—Continued

#### BASIS FOR RATES ON EXPORT TRAFFIC

To Grotis	From	BASIS FOR General Merchandise	Basis for Live Stock and Dressed Meats, Car- Loads
Montreal, Que.	78% and over	Philadelphia current rates, except that from points taking less than 78% of Chicago-to-New York rates, the 78% rates will be the minimum, subject to Montreal (local) rates as max- ima	On live stock, New York current rates On dressed meats, Phila- delphia cur- rent rates
Halifax, N. S.	78% and over	One cent per 100 pounds over St. John, N. B., export rates	One cent per 100 pounds over St. John, N. B., export rates

In a previous chapter there is shown a rate of 31.5 cents applicable from Chicago to New York on shipments of agricultural implements. This is a specially authorized commodity rate.

In the application of the export rate adjustment to Canadian ports on this commodity, the rate to Montreal would be made the same as to Philadelphia, which, in turn, would be made by deducting the fifth-class differential of 2 cents from the New York rate, resulting in a rate of 29.5 cents, Chicago to Montreal.

To Quebec and Point Levi, the New York current rate would be applied without arbitrary deduction, as would the rates to St. John and West St. John, N. B.

To Halifax, N. S., irrespective of upon what basis or approximate class rate the commodity rate is established, rates on export traffic are made by the addition of 1 cent to the rates established to New York. This arbitrary is to be added in all instances after the rate to New York has first been constructed from the desired point of

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origin. In other words, it is not proper to add the arbitrary to the Chicago rate and then scale it on the basis of 78 per cent, in constructing the rate from Toledo. The proper procedure is, first make the Chicago-New York rate, take 78 per cent of it, and, to this amount, add the full arbitrary of 1 cent per hundred pounds.

In regard to the adjustment employed in establishing export and import freight rates the Board of Railway Commissioners for Canada stated in its sixth annual report, that "the railway companies maintained that their import rates are proportionals of through oceanand-rail rates from Great Britain, and that as such they cannot fairly be compared with their domestic rates which apply on traffic carried under dissimilar circumstances and conditions." The board also stated that these rates are kept down by competition with traffic via competing lines of railways in the United States. It is, however, to be noted that the import rates of the Canadian railway companies via Montreal are somewhat lower than the lowest of the import rates charged to the same points in Canada by the competing railway lines in the United States. This fact is no doubt due to two or three things: (1) The determination to divert, as much as possible, of the import traffic to the St. Lawrence routes; (2) The necessity of offsetting the higher rates of marine insurance; and, (3) A praiseworthy desire to protect the port of Montreal and to increase the traffic of the steamships which sail to and from this Canadian port.

As a general proposition, rates on import traffic through Canadian ports of entry to Western percentage groups are adjusted in conformity with the basis set forth in the following tabulation:

(1) Montreal, Que., the same commodity rates as established from Baltimore, which are usually 3 cents per hundred pounds under the New York rates. The important class rates from Montreal, Que., approximate those from Newport News.

(2) Quebec, Que., the same rates as established from Montreal.
(3) St. John and West St. John, N. B., the same rates as established from Montreal.

The foregoing indicates that while there are some differences in the adjustment employed on export traffic, these ports, as related to import traffic, take the same or a common basis of rates.

The Grand Trunk Railway, through its eastern terminus at Portland, maintains the Baltimore basis of rates in connection with import traffic moving by way of that port.

### TEST QUESTIONS

These questions are for the student to use in testing his knowledge of the assignment. The answers are not to be sent to the University.

1. What are the Western Termini Points, and how was this term derived?

2. How are the class rates from Central Freight Association points east of the Indiana-Illinois state line to Buffalo, N. Y., and Pittsburgh, Pa., constructed?

3. How does this differ from the basis employed from points in the territory lying beyond and including the 100 per cent group?

4. How does the class-rate adjustment differ from the commodity-rate adjustment to Western Termini Points from the 116 per cent group?

5. What comparison can you make with respect to eastbound traffic v. westbound traffic to and from Western Termini Points?

6. (a) How are the rates on grain and grain products to Western Termini Points constructed? (b) On live stock and dressed meats? (c) On iron and steel articles?

7. Illustrate the elass-rate and commodity-rate adjustment to Blairsville, Pa.

S. In the addition of arbitraries if the special or commodity rate is the same as a class rate, what arbitrary will be added?

9. When the special or commodity rate is not the same as the class rate, what arbitrary will be added?

10. Briefly outline the current basis of rates applying to Virginian Railway stations from points east of the Cleveland-Marietta-Belpre Line.

11. Trace roughly the course of the Cleveland-Marietta-Belpre Line.

12. How are through rates from points in Trunk Line Territory on the Atlantic seaboard to St. Paul, Minn., constructed?

13. How are rates to Albert Lea, Minn., constructed with regard to the rates to St. Paul?

14. In general, how are rates from Trunk Line destinations to points in Trans-Mississippi River Territory constructed?

15. How are rates from Central Freight Association Territory to Mississippi Valley points constructed?

16. How are rates from Indianapolis. Ind., to points in southeastern territory constructed?

17. Sum up briefly the trend of railroad construction in the Dominion of Canada.

18. Do the Canadian railways exert any influence on our domestic rates?

19. What are the class rates from Toronto, Ont., to Brighton, Ont.?

20. What are the class rates from Montreal, Que., to Halifax, N. S.?

21. Is the same scale of rates applied for corresponding distances on the Temiscouata Railway as are applied to stations on the Intercolonial Railway?

22. For rate-making purposes, how was that portion of the Dominion of Canada lying west of the Great Lakes treated by the Board of Railway Commissioners for Canada?

23. What are the class rates from Duluth, Minn., to Medicine Hat, Alta.?

24. What are the rates from Quebec, Que., to Calgary, Alta.?

25. Outline the adjustment of rates from points in Central Freight Association Territory taking 78 per cent and higher of the Chicago-New York rates to Belle River, Ont.

26. What rates are observed as maxima from Central Freight Association points to London and Hamilton, Ont.?

27. On what basis are the rates from Adams, Ind., to Toronto, Ont., made?

28. How do the rates from Cincinnati, Ohio, to Montreal. Que., compare with the rates from Cincinnati to New York?

29. What are the minimum class rates from Pittsburgh, Pa., to Hamilton, Ont.?
30. What are the arbitraries employed in establishing rates from Johnstown, Pa., to Hamilton, Ont.

31. How are the class rates from Zanesville, Ohio, to Mont Joli, Que., constructed?

32. What are the class rates from Chicago to Sydney, N. S.?

33. Compare these rates with the rates from Johnstown, Pa.; what is the resulting difference?

34. How are the rates on pig iron from Cincinnati, Ohio, to Toronto, Ont., constructed?

35. What are the class rates from New York to the Canadian 80-C per cent group?

36. How are the rates from Ogdensburg, N. Y., to percentage group 78-D adjusted with respect to the New York rates?

37. Is there any difference between the Baltimore rates and the New York rates to Canadian percentage territory 80-C?

38. Name some of the important differential routes.

39. What is the subsidiary lake line of the Grand Trunk Railway System?

40. What is the basis for the construction of rates on export traffic from Indianapolis, Ind., to Quebec, Que.?

41. How do the rates to Halifax, N. S., compare therewith?

42. What is the necessity for a special adjustment of this character so far as the Canadian lines are concerned?



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