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UNITED STATES DEPARTMENT OF AGRICULTURE
Agricultural Research Administration
Bureau of Agricultural and Industrial Chemistry

1945-46 ANNUAL

NAVAL STORES REPORT

on

Production, Distribution, Consumption and Stocks

of

TURPENTINE AND ROSIN

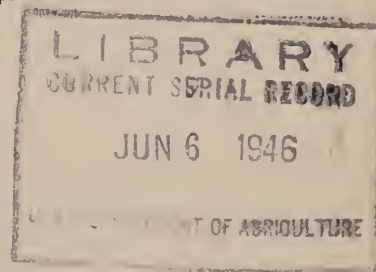
of the

UNITED STATES

By Crop Years

April 1, 1945 - March 31, 1946

Issued May 14, 1946



Compiled by

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Naval Stores Research Division

FOREWORD

This is the twelfth of the series of annual reports by the U. S. Department of Agriculture giving production, consumption, and stocks of naval stores. The period covered by the annual reports is that of the naval stores season, April 1 - March 31. Semi-Annual reports, covering the six-month period, April 1 - September 30, Quarterly reports covering the First and Third Quarters of the Naval Stores Season, and a Monthly Survey of Naval Stores Stocks are also issued. These reports are issued under Federal Act 278, providing for the publication of statistics relating to spirits of turpentine and rosin produced, held and used in the domestic and foreign commerce of the United States.

As in previous reports, carryover (stocks) of turpentine and rosin is separated into gum and wood products. Stocks of wood rosin do not include so-called "B wood rosin." While sulphate wood turpentine is carried in the regular production and carryover tables, data on tall oil are in a table separate from gum and wood resins. The term tall oil refers to the mixture of rosin and fatty acids recovered by the acidification of the soap curds (black liquor soap) obtained in the production of sulphate pulp. The tall oil so obtained contains approximately 42 percent of rosin acids.

The data on production, consumption and stocks are expressed in commercial units: For turpentine, barrels of 50 gage gallons; and for rosin, drums of approximately 520 pounds net weight. A unit of naval stores consists of one barrel of turpentine and two and two-thirds drums of rosin. Carryover figures do not include gum turpentine or rosin producible from stocks of crude gum on hand.

These reports are designed to be of use to the industry — producer, factor, distributor, and consumer. Every effort is made to obtain complete and accurate information but the completeness, accuracy and promptness of issue depend upon the cooperation of those reporting. In accepting the statistics given in this report, as well as those in previous reports, it should be borne in mind that the Bureau of Agricultural and Industrial Chemistry merely assembles the figures from the individual reports received and is not responsible for their accuracy.

The Bureau of Agricultural and Industrial Chemistry extends its thanks to those producers, factors, distributors, and consumers who have so kindly cooperated in furnishing the requested information. The assistance of Mrs. Clotilde H. Oubre in tabulating the data for this report is gratefully acknowledged.

SUMMARY OF TURPENTINE

SUPPLY, DISTRIBUTION AND CARRYOVER (Bbls. - 50 gals.)
 (By naval stores crop years, beginning April 1 and ending March 31)

	<u>1945-46</u>			<u>1944-45</u>		
	<u>12 mos. (Apr. - Mar.)</u>			<u>12 mos. (Apr. - Mar.)</u>		
	<u>Total</u>	<u>Gum</u>	<u>Wood</u>	<u>Total</u>	<u>Gum</u>	<u>Wood</u>

TABLE 1a - SUPPLY AND DISTRIBUTION

U. S. Carryover						
April 1 ^{1/}	202,546	168,011	34,535	295,581	262,057	33,524
Production ^{2/}	488,131	244,252	243,879	471,243	245,194	226,049
Imports	<u>14,932</u>	<u>14,932</u>	<u>---</u>	<u>15,382</u>	<u>15,382</u>	<u>---</u>
Available Supply	705,609	427,195	278,414	782,206	522,633	259,573
Less Carryover						
March 31 ^{1/}	<u>100,749</u>	<u>58,088</u>	<u>42,661</u>	<u>202,546</u>	<u>168,011</u>	<u>34,535</u>
Apparent Total						
Consumption	604,860	369,107	235,753	579,660	354,622	225,038
Less Exports	<u>92,445</u>	<u>67,111</u>	<u>25,334</u>	<u>65,263</u>	<u>49,780</u>	<u>15,483</u>
Apparent U. S.						
Consumption	512,415	301,996	210,419	514,397	304,842	209,555

TABLE 2a - CARRYOVER (Stocks)

U. S. Carryover						
April 1	202,546	168,011	34,535	295,581	262,057	33,524
U. S. Carryover						
March 31	<u>100,749</u>	<u>58,088</u>	<u>42,661</u>	<u>202,546</u>	<u>168,011</u>	<u>34,535</u>
Increase	---	---	8,126	---	---	1,011
Decrease	101,797	109,923	---	93,035	91,046	---

^{1/} Table 4a.

^{2/} Table 5a.

SUMMARY OF ROSIN

SUPPLY, DISTRIBUTION AND CARRYOVER (Drums - 520 lbs. net)
 (By naval stores crop years, beginning April 1 and ending March 31)

1945-46
 12 mos. (Apr. - Mar.)

1944-45
 12 mos. (Apr. - Mar.)

Total Gum Wood Total Gum Wood

TABLE 1b - SUPPLY AND DISTRIBUTION

U. S. Carryover						
April 1 ^{1/}	388,266	265,881	122,385	794,786	648,206	146,580
Production ^{2/}	1,452,036	694,476	757,560	1,317,912	692,212	625,700
Imports	9,795	9,795	---	17,238	17,238	---
Available Supply	1,850,097	970,152	879,945	2,129,936	1,357,656	772,280
Less Carryover						
March 31 ^{1/}	388,682	237,504	151,178	388,266	265,881	122,385
Apparent Total						
Consumption	1,461,415	732,648	728,767	1,741,670	1,091,775	649,895
Less Exports	206,810	105,354	101,466	215,683	160,092	55,591
Apparent U. S.						
Consumption	1,254,605	627,294	627,311	1,525,987	931,683	594,304

TABLE 2b - CARRYOVER (Stocks)

U. S. Carryover						
April 1	388,266	265,881	122,385	794,786	648,206	146,580
U. S. Carryover						
March 31	388,682	237,504	151,178	388,266	265,881	122,385
Increase	416	---	28,793	---	---	---
Decrease	---	28,377	---	406,520	382,325	24,195

^{1/} Table 4b.

^{2/} Table 5b. Includes reclaimed rosin.

DETAILS AND SUMMARY OF TURPENTINE CARRYOVER (Bbls. - 50 gals.)

	<u>1946</u> <u>March 31</u>			<u>1945</u> <u>March 31</u>		
	<u>Total</u>	<u>Gum</u>	<u>Wood</u>	<u>Total</u>	<u>Gum</u>	<u>Wood</u>
<u>TABLE 3a - DETAILS OF TURPENTINE CARRYOVER (Stocks)</u>						
<u>Production Points</u> ^{1/}						
Gum Stillts ^{2/}	10,102	10,102	---	23,460	23,460	---
Wood Plants						
Steam Dist.	8,866	---	8,866	7,948	---	7,948
Sulphate	7,764	---	7,764	5,260	---	5,260
Dest. Dist.	321	---	321	228	---	228
Total	27,053	10,102	16,951	36,896	23,460	13,436
<u>Sou. Concent. Points</u> ^{1/}						
	21,021	21,021	---	119,449	119,449	---
<u>Distribution Points</u>						
Eastern	10,402	7,664	2,738	7,940	4,735	3,205
Central	14,171	9,000	5,091	14,932	10,072	4,860
Western	5,835	4,134	1,501	3,971	3,078	893
Total ^{3/}	30,208	20,878	9,330	26,843	17,885	8,958
<u>Industrial Plants</u> ^{4/}						
	22,467	6,087	16,380	19,358	7,217	12,141

TABLE 4a - SUMMARY OF TURPENTINE CARRYOVER (Stocks)

Production Points	27,053	10,102	16,951	36,896	23,460	13,436
Sou. Concent. Points	21,021	21,021	---	119,449	119,449	---
Distribution Points	30,208	20,878	9,330	26,843	17,885	8,958
Industrial Plants	22,467	6,087	16,380	19,358	7,217	12,141
Total in U. S.	100,749	58,088	42,661	202,546	168,011	34,535

^{1/} Irrespective of ownership. Some of the turpentine may have been sold and may be awaiting shipment.

^{2/} Compiled from reports by producers and factors.

^{3/} Compiled from reports of individual distributors.

^{4/} Compiled from reports of individual consumers.

DETAILS AND SUMMARY OF ROSIN CARRYOVER (Drums - 520 lbs. net)

	<u>1946</u>			<u>1945</u>		
	<u>March 31</u>			<u>March 31</u>		
	<u>Total</u>	<u>Gum</u>	<u>Wood</u>	<u>Total</u>	<u>Gum</u>	<u>Wood</u>
<u>TABLE 3b - DETAILS OF ROSIN CARRYOVER (Stocks)</u>						
<u>Production Points</u> ^{1/}						
Gum Still ^{2/}	63,282	63,282	---	27,777	27,777	---
Wood Plants						
Steam Dist. ^{3/}	53,578	---	53,578	46,491	---	46,491
Sulphate	---	---	---	---	---	---
Dest. Dist.	---	---	---	---	---	---
Total	116,860	63,282	53,578	74,268	27,777	46,491
<u>Sou. Concent. Points</u> ^{1/}	18,524	18,524	---	29,439	29,439	---
<u>Distribution Points</u>						
Eastern	8,502	6,523	1,979	4,413	3,051	1,362
Central	6,073	3,335	2,738	4,839	3,316	1,523
Western	464	165	299	444	251	193
Total ^{4/}	15,039	10,023	5,016	9,696	6,618	3,078
<u>Industrial Plants</u> ^{5/}	238,259	145,675	92,584	274,863	202,047	72,816

TABLE 4b - SUMMARY OF ROSIN CARRYOVER (Stocks)

Production Points	116,860	63,282	53,578	74,268	27,777	46,491
Sou. Concent. Points	18,524	18,524	---	29,439	29,439	---
Distribution Points	15,039	10,023	5,016	9,696	6,618	3,078
Industrial Plants	238,259	145,675	92,584	274,863	202,047	72,816
Total in U. S.	388,682	237,504	151,178	388,266	265,881	122,385

- ^{1/} Irrespective of ownership. Some of the rosin may have been sold and may be awaiting shipment.
- ^{2/} Compiled from reports by producers and factors. Includes reclaimed rosin.
- ^{3/} Does not include by-products resulting from making paler grades from FF wood rosin.
- ^{4/} Compiled from reports of individual distributors.
- ^{5/} Compiled from reports of individual consumers.

DETAILS OF PRODUCTION

(By naval stores crop years, beginning April 1 and ending March 31)

1945-46 <u>12 mos. (Apr. - Mar.)</u>	1944-45 <u>12 mos. (Apr. - Mar.)</u>
---	---

	<u>Total</u>	<u>Gum</u>	<u>Wood</u>	<u>Total</u>	<u>Gum</u>	<u>Wood</u>
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TABLE 5a - PRODUCTION OF TURPENTINE (Bbls. - 50 gals.)

Gum	244,252	244,252	---	245,194	245,194	---
Wood						
Steam Dist.	129,101	---	129,101	117,265	---	117,265
Sulphate	110,262	---	110,262	104,307	---	104,307
Dest. Dist.	<u>4,516</u>	<u>---</u>	<u>4,516</u>	<u>4,477</u>	<u>---</u>	<u>4,477</u>
Total	488,131	244,252	243,879	471,243	245,194	226,049

TABLE 5b - PRODUCTION OF ROSIN (Drums 520 lbs. net)

Gum	685,938	685,938	---	684,146	684,146	---
Reclaimed gum	8,538	8,538	---	8,066	8,066	---
Wood						
Steam Dist.	757,560 ^{1/}	---	757,560 ^{1/}	625,700	---	625,700
Sulphate	---	---	---	---	---	---
Dest. Dist.	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>
Total	1,452,036	694,476	757,560 ^{1/}	1,317,912	692,212	625,700

TABLE 5c - PRODUCTION OF BLACK LIQUOR SOAP AND TALL OIL^{2/}

	<u>1945-46</u>	<u>1944-45</u>
	<u>12 mos. (Apr. - Mar.)</u>	<u>12 mos. (Apr. - Mar.)</u>
Black Liquor Soap		
Reported as produced	200,130 tons	197,437 tons
Black Liquor Soap		
Reported as acidified	194,895 tons	162,354 tons
To produce according to reports		
Crude Tall Oil	94,814 tons	80,060 tons

1/ This figure now represents the total primary production of FF wood rosin. Much of this is refined to produce pale grades with concomitant production of "B wood resin" as a by-product. The total production of wood rosin shown in previous reports was incomplete.

2/ See foreword for definition.

TABLE 6 - PRODUCTION OF GUM TURPENTINE BY STATES^{1/}

	<u>1945-46</u>		<u>1944-45</u>	
	<u>12 mos. (Apr. - Mar.)</u>		<u>12 mos. (Apr. - Mar.)</u>	
	<u>Barrels</u>	<u>Percentage</u>	<u>Barrels</u>	<u>Percentage</u>
South Carolina	1,807	0.74	2,184	0.89
Georgia	180,715	73.99	167,538	68.33
Florida	43,986	18.01	57,624	23.50
Alabama	13,735	5.62	13,973	5.70
Mississippi	3,099	1.27	3,208	1.31
Louisiana	910	0.37	667	0.27
Total	244,252	100.00	245,194	100.00

TABLE 7 - MISCELLANEOUS NAVAL STORES (Bbls. - 50 gals.)

	<u>1945-46</u>		<u>1944-45</u>	
	<u>12 mos. (Apr. - Mar.)</u>	<u>1946</u> <u>Mar. 31</u>	<u>12 mos. (Apr. - Mar.)</u>	<u>1945</u> <u>Mar. 31</u>
	<u>Production</u>	<u>Stocks</u>	<u>Production</u>	<u>Stocks</u>
Pine Oil	110,066	12,017	103,487	10,299
Pine Tar	81,992	1,785	84,767	1,526
Rosin Oil	18,083	2,972	24,965	2,907
Dipentene	19,395	3,164	18,636	3,189
Other Monocyclic Hydrocarbons	33,711	6,325	33,716	5,021

^{1/} A unit of naval stores consists of one 50-gallon barrel of turpentine and two and two-thirds drums (each 520 lbs. net) of rosin.

TABLE 8a - REPORTED CONSUMPTION OF TURPENTINE IN UNITED STATES (Bbls. - 50 gal.)
 (By naval stores crop years, beginning April 1 and ending March 31)

	<u>1945-46</u>			<u>1944-45</u>		
	<u>12 mos. (Apr. - Mar.)</u>			<u>12 mos. (Apr. - Mar.)</u>		
	<u>Total</u>	<u>Gum^{1/}</u>	<u>Wood^{1/}</u>	<u>Total</u>	<u>Gum^{1/}</u>	<u>Wood^{1/}</u>
Abattoirs	0			0		
Adhesives & plastics	264			352		
Asphaltic products	0			0		
Automobiles & wagons	131			175		
Chemicals & pharmaceuticals	107,078			129,957		
Ester gum & synthetic resins	16,945			13,914		
Foundries & foundry supplies	616			626		
Furniture	164			176		
Insecticides & disinfectants	16			115		
Linoleum & floor covering	36			41		
Matches	0			0		
Oils & greases	72			274		
Paint, varnish & lacquer	17,828			20,745		
Paper & paper size	0			0		
Printing ink	216			307		
Railroads & shipyards	3,518			9,977		
Rubber	629			657		
Shoe polish & shoe materials	11,336			12,620		
Soap	0			0		
Other industries	211			260		
Total industrial reported	164,090	33,580	130,510	190,196	44,064	146,132
Not accounted for ^{2/}	348,325	268,416	79,909	324,201	260,778	63,423
Apparent U. S. consumption ^{3/}	512,415	301,996	210,419	514,397	304,842	209,555

^{1/} Separation of gum and wood turpentine consumption will be limited for the present to the total reported.

^{2/} Principally unreported distribution of turpentine through retailers who sell in small quantities to ultimate consumers.

^{3/} From Table 1a, page 1.

TABLE 8b - REPORTED CONSUMPTION OF ROSIN IN UNITED STATES (Drums - 520 lbs. net)
 (By naval stores crop years, beginning April 1 and ending March 31)

	<u>1945-46</u>			<u>1944-45</u>		
	<u>12 mos. (Apr. - Mar.)</u>			<u>12 mos. (Apr. - Mar.)</u>		
	<u>Total</u>	<u>Gum^{1/}</u>	<u>Wood^{1/}</u>	<u>Total</u>	<u>Gum^{1/}</u>	<u>Wood^{1/}</u>
Abattoirs	455			874		
Adhesives & plastics	22,656			30,926		
Asphaltic products	1,727			2,473		
Automobiles & wagons	109			246		
Chemicals & pharmaceuticals	272,303			265,022		
Ester gum & synthetic resins	250,835			249,252		
Foundries & foundry supplies	14,364			14,979		
Furniture	3			7		
Insecticides & disinfectants	5,407			6,032		
Linoleum & floor covering	9,602			19,152		
Matches	1,304			1,291		
Oils & greases	26,431			42,372		
Paint, varnish & lacquer	101,240			133,136		
Paper & paper size	274,022			379,383		
Printing ink	7,435			12,680		
Railroads & shipyards	17,747			24,855		
Rubber	21,234			22,529		
Shoe polish & shoe materials	5,604			7,235		
Soap	182,683			324,164		
Other industries	4,073			4,758		
Total industrial reported	1,219,234	616,189	603,045	1,541,366	947,473	593,893
Not accounted for ^{2/}	35,371	11,105	24,266	-15,379	-15,790	411
Apparent U. S. consumption ^{3/}	1,254,605	627,294	627,311	1,525,987	931,683	594,304

^{1/} Separation of gum and wood rosin consumption will be limited for the present to the total reported. The breakdown shown is an approximation.

^{2/} The discrepancy between the total industrial consumption reported and the apparent U. S. consumption is due partly to unreported industrial consumption and partly to failure of some consumers to distinguish between gum rosin, wood rosin, and modified or derived rosins in their reports.

^{3/} From Table 1b, page 2.

TABLE 9a - SUPPLY AND DISTRIBUTION OF TURPENTINE

SUMMARY FOR EIGHT YEARS
(Bbls. - 50 gals.)

	1945-46	1944-45	1943-44	1942-43	1941-42	1940-41	1939-40	1938-39
Crop Year, April 1 to March 31	202,546	295,531	288,213	156,369	209,910	220,267	314,323	218,774
U. S. Stocks at Opening of Crop Year, April 1	214,252	245,194	238,382	321,930	285,050	343,938	382,781	534,291
Production During Crop Year:								
Gum	129,101	117,265	125,171	148,166	190,048	161,161	158,575	129,091
Wood	110,262	104,307	91,045	84,434	64,936	54,081	56,531	40,467
Steam Distilled	4,516	4,477	3,834	5,771	8,712	7,161	6,791	5,369
Destructively Distilled	488,131	471,243	508,432	560,351	548,796	566,341	604,778	709,218
Total Production	14,932	15,382	17,818	11,288	13,632	16,688	16,492	16,319
Imports	705,509	732,206	814,463	728,008	772,338	803,296	935,593	944,311
Total Available Supplies	100,749	202,546	295,581	288,213	156,369	209,910	220,267	314,323
U. S. Stocks at End of Crop Year, March 31	604,860	579,660	518,882	439,795	615,969	593,386	715,326	629,983
Total Disappearance	67,111	49,780	26,812	21,872	79,447	103,127	169,684	174,908
Less Exports:	25,334	15,433	19,072	20,808	33,523	27,728	48,754	35,309
Gum								
Wood	92,445	65,263	45,884	42,680	112,970	130,855	238,438	210,217
Total Exports	512,415	514,397	472,998	397,115	502,999	462,531	476,888	449,771
Apparent U. S. Consumption								

TABLE 9b - SUPPLY AND DISTRIBUTION OF ROSIN

SUMMARY FOR EIGHT YEARS
(Drums - 520 lbs. net)

	1945-46	1944-45	1943-44	1942-43	1941-42	1940-41	1939-40	1938-39
Crop Year, April 1 to March 31	194,476	794,736	1,284,229	1,147,742	1,499,328	1,255,517	1,297,577	799,478
U. S. Stocks at Opening of Crop Year, April 1	388,266							
Production During Crop Year:								
Gum	694,476	692,212	783,565	868,698	791,710	938,911	1,054,236	1,466,344
Wood	757,560	625,700	679,266	787,105	916,764	778,581	759,474	610,330
Total Production	1,452,036	1,317,912	1,462,831	1,655,803	1,708,474	1,717,492	1,813,710	2,076,674
Imports	9,795	17,238	4,340	1,211	1,651	1,788	2,326	284
Total Available Supplies	1,850,097	2,129,936	2,751,400	2,904,756	3,209,453	2,974,797	3,113,613	2,876,436
U. S. Stocks at End of Crop Year, March 31	388,682	388,266	794,786	1,284,229	1,147,742	1,499,328	1,255,517	1,297,576
Total Disappearance	1,461,415	1,741,670	1,956,614	1,520,527	2,061,711	1,475,469	1,858,096	1,578,860
Less Exports:								
Gum	105,354	160,092	311,007	189,576	342,935	220,337	471,076	401,013
Wood	101,456	55,591	143,680	139,560	233,411	203,473	309,628	256,212
Total Exports	206,810	215,683	454,687	329,136	576,346	423,810	780,704	657,225
Apparent U. S. Consumption	1,254,605	1,525,987	1,501,927	1,191,391	1,485,365	1,051,659	1,077,392	921,635

TABLE 10a - WEIGHTED^{1/} AVERAGE MONTHLY AND CROP YEAR PRICES OF GUM SPIRITS OF TURPENTINE - 1930-31 to 1945-46^{2/}
 (Based upon Wednesdays and Saturdays Closing Savannah Prices)^{3/}

Crop Year	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Average
1930-31	48.42	43.51	41.33	37.56	35.32	38.26	35.50	37.03	36.14	38.11	39.97	47.81	39.34
1931-32	50.44	49.42	50.69	39.77	31.40	31.88	31.17	35.21	33.83	34.68	34.84	40.06	40.10
1932-33	39.50	39.44	38.64	35.94	37.68	41.09	40.86	39.71	37.04	39.88	39.75	39.46	38.82
1933-34	37.88	42.47	40.39	46.39	42.83	41.97	40.81	42.14	42.07	47.44	57.00	55.00	42.72
1934-35	53.66	50.81	46.44	42.82	41.83	41.19	46.59	48.00	45.46	49.59	50.53	49.71	45.64
1935-36	47.37	47.07	44.46	42.40	38.47	40.91	45.76	44.92	43.96	45.19	44.44	39.31	43.56
1936-37	37.43	36.26	35.86	36.44	38.73	37.19	36.33	38.25	41.59	43.13	41.84	39.01	37.48
1937-38	35.97	35.83	34.07	33.44	31.94	29.93	27.28	26.92	26.14	28.18	26.47	25.42	31.36
1938-39	23.18	22.69	22.56	23.24	22.53	20.92	22.81	22.32	22.31	24.78	25.56	28.42	22.61
1939-40	24.96	23.93	24.00	24.11	23.72	26.11	27.16	25.72	27.00	30.17	32.91	31.67	25.31
1940-41	28.78	27.65	26.25	26.69 ^{4/}	28.69	30.80	34.99	38.37	37.11	42.05	38.78	39.25	30.03
1941-42 ^{1/}	42.11	43.00	42.17	48.28	67.83	74.84	78.08	75.61	73.44	75.89	75.19	73.08	63.85
1942-43	65.47	61.22	62.12	64.30	61.06	66.28	70.08	69.84	69.50	69.59	69.09	69.69	66.52
1943-44	69.46	69.47	72.08	72.77	73.03	72.14	74.53	81.60	80.87	83.03	83.59	82.60	76.26
1944-45	82.58	83.31	83.53	82.53	84.47	84.67	84.50	84.50	85.00	85.31	87.00	86.63	84.50
1945-46	86.16	86.83	85.44	80.93	82.19	83.44	86.31	87.69	89.38	89.50	89.50	89.50	86.44

^{1/} Prior to 1941-42 monthly prices were obtained by averaging Wednesday and Saturday closing prices. The crop year average price was obtained by multiplying each monthly price by the combined reported receipts during that month at Savannah, Jacksonville, and Pensacola and dividing the total of these figures for the crop year by the total receipts for that crop year, thereby giving the months of heavy receipts and of low receipts their proper relative value. For 1941-42 and thereafter, only simple averages are shown.

^{2/} Prices for 1921-22 to 1930-31 crop years will be found in previous annual and semi-annual reports in this series.

^{3/} After November, 1936, Wednesday and Friday Savannah prices were used when there was no quoted Saturday market.

^{4/} Beginning July 1, 1940, quoted Savannah turpentine prices were exclusive of package. To complete this table and to present figures comparable with previous quotations, beginning July 1, 1940, 6 cents per gallon has been added to the Savannah quotations.

Sources of data: Florida inspections and monthly receipts at Savannah, Jacksonville, and Pensacola, The Naval Stores Review, Daily Market Reports of the Savannah Exchange, Jacksonville and Pensacola Chambers of Commerce and Economic Analysis Unit, General Crops Section, Agricultural Adjustment Administration.

TABLE 10b - WEIGHTED^{1/} AVERAGE MONTHLY AND CROP YEAR PRICES^{2/} OF GUM ROSIN - 1930-31 to 1945-46^{3/}
 (Based upon Wednesdays and Saturdays Closing Savannah Prices)^{4/}

Crop Year	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Average
1930-31	2.98	2.68	2.46	2.08	1.92	2.07	1.90	1.93	1.94	1.87	1.97	2.15	2.18
1931-32	2.16	2.18	2.29	1.72	1.36	1.32	1.28	1.42	1.35	1.35	1.38	1.60	1.69
1932-33	1.30	1.27	1.19	1.10	1.01	1.40	1.33	1.28	1.27	1.30	1.26	1.26	1.23
1933-34	1.28	1.54	1.53	1.78	1.67	1.70	1.68	1.70	1.70	1.84	2.19	2.20	1.69
1934-35	2.21	2.12	1.98	1.87	1.90	1.93	1.97	1.93	1.95	2.06	2.11	2.08	1.98
1935-36	2.03	2.05	1.99	1.93	1.79	1.90	2.09	2.05	1.98	2.00	1.99	2.00	1.97
1936-37	1.90	1.88	2.04	2.36	2.90	2.61	2.71	3.16	4.03	4.43	4.24	3.90	2.79
1937-38	3.51	3.61	3.54	3.48	3.47	3.49	3.20	2.70	2.41	2.57	2.34	2.06	3.20
1938-39	2.12	2.03	2.09	2.24	2.17	2.05	2.30	2.45	2.21	2.23	2.30	2.52	2.18
1939-40	2.27	2.26	2.32	2.39	2.32	2.46	2.49	2.41	2.34	2.41	2.40	2.43	2.37
1940-41	2.26	2.20	2.04	1.74	1.94	1.83	1.93	2.05	1.96	2.07	2.04	2.10	1.98
1941-42	2.04	1.99	2.01	2.28	2.55	2.62	2.58	2.77	3.09	3.43	3.52	3.40	2.69
1942-43	3.07	2.89	2.93	3.10	2.93	3.33	3.49	3.50	3.48	3.57	3.55	3.75	3.30
1943-44	3.67	3.64	3.63	3.75	4.01	4.02	4.21	4.47	4.55	4.60	4.78	5.08	4.20
1944-45	4.93	5.09	5.68	5.55	5.51	5.55	5.76	5.85	5.85	5.85	5.85	5.85	5.61
1945-46	5.85	5.85	5.85	5.85	6.38	6.80	6.80	6.80	6.80	6.80	6.80	6.80	6.45

Note: Rosin Grades included in average prices are:-- X, WW, WG, N, M, K, I, H, G, F, E, D, B.

^{1/} Prior to 1941-42, monthly prices were obtained by multiplying the average of the Wednesday and Saturday closing prices of each grade by the number of barrels of each grade reported as inspected in Florida during that month, and dividing the total of the resulting figures by the total number of barrels inspected in Florida during that month, thereby giving the proper relative value to each grade. The crop year average price was obtained by multiplying each monthly price by the combined reported receipts during that month at Savannah, Jacksonville, and Pensacola and dividing the total of these figures for the crop year by the total receipts for the crop year, thereby giving the months of heavy receipts and of low receipts their proper relative value.

^{2/} For 1941-42 and thereafter, only simple averages in terms of dollars per 100 pounds net weight are shown. Prior to 1941, all rosin prices were quoted in dollars per trade barrel of 280 pounds gross weight. Since 1941, prices are quoted in dollars per 100 pounds net weight. In order to simplify comparisons, all prices in this table have been calculated to the basis of 100 pounds net weight.

^{3/} Prices for 1921-22 to 1930-31 crop years will be found in previous annual and semi-annual reports in this series. After November, 1936, Wednesday and Friday Savannah prices were used when there was no quoted Saturday market.

^{4/} Sources of data: Florida inspections and monthly receipts at Savannah, Jacksonville, and Pensacola, the Naval Stores Review, Daily Market Reports of the Savannah Exchange, Jacksonville and Pensacola Chambers of Commerce and Economics Analysis Unit, General Crops Section, Agricultural Adjustment Administration.

TABLE 11 - TURPENTINE CUPS SOLD FOR SEASONS 1923-24 to 1946-47

A compilation of information furnished by the manufacturers of turpentine cups shows that a total of 6,376,000 cups was sold during this naval stores season for use in gathering the 1946-47 crop of naval stores.

Sales of new cups for the past 24 seasons were reported as follows:

1946-47	6,376,000	1934-35	11,707,839
1945-46	6,084,000	1933-34	11,088,333
1944-45	4,659,000	1932-33	3,620,000
1943-44	4,253,000	1931-32	1,085,000
1942-43	8,648,400	1930-31	11,178,800
1941-42	2,744,000	1929-30	24,488,760
1940-41	7,567,659	1928-29	12,589,000
1939-40	1,638,300	1927-28	32,310,000
1938-39	10,525,180	1926-27	20,500,000
1937-38	17,204,900	1925-26	10,059,000
1936-37	17,530,000	1924-25	13,249,000
1935-36	6,219,240	1923-24	24,828,500

ADDENDA

Additional information pertaining to naval stores may be obtained as follows:

For periods prior to 1942, for monthly, quarterly and annual reports on imports and exports of turpentine and rosin, address: Foreign Trade Statistics, Bureau of the Census, Department of Commerce, Washington, D. C. Price ten cents per copy.

For biennial census of the production of turpentine and rosin, address: Bureau of the Census, Department of Commerce, Washington, D. C.

For information on the Naval Stores Conservation Program, write to the Regional Forester, U. S. Forest Service, Glenn Building, Atlanta 3, Georgia.

For information on the southern forest survey showing turpentine timber resources, address: Southern Forest Experiment Station, Box 7295, Midcity Station, New Orleans 19, Louisiana.

For information regarding the production, distribution, consumption and stocks of turpentine and rosin, address: Naval Stores Research Division, Bureau of Agricultural and Industrial Chemistry, 2100 Robert E. Lee Boulevard, New Orleans 19, Louisiana.



