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DEPARTMENT OF JUSTICE
WAR DIVISION
ECONOMIC WARFARE SECTION

SUPPLEMENTARY REPORT ON
MANCHURIAN HIGHWAY AND WATERWAY TRANSPORTATION

March 26, 1943

Submitted by: Charles Layng
Economic Warfare Section
Department of Justice
Chicago, Illinois

Economic Warfare Section
War Division
Department of Justice
Washington, D.C.

Supplementary Report

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Re: Manchurian Highway and
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Submitted by: Charles Layng
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Much later statistics are now available on Manchurian highways and additional information is at hand with reference to waterways. The list of bus lines contained in the previous report, #2807, was as of June 1, 1936. An official list as of April 1939 is now available and is included as part of this report. These lists of bus lines have value simply as such, but their greatest value is in the fact that they show the principal highways and the distances by road between various points. The latest list follows:

State Bus Lines
(April, 1939)

MUKDEN RAILWAY BUREAU
(Total Length: 1,857 km.)

	<u>Kms.</u>		<u>Kms.</u>
ANCHENG LINE:		FENGHU LINE:	
Antung-Chengtzutuan	232	Mukden-Fushun	56
Antung-Hungchikai	52	HUTIEH LINE:	
Antung-Wulungpei	22	Hushun-Tiehling	65
Hoshenkou-Kungwangmiao	45	LIAOHU LINE:	
Takushan-Fenghuangcheng	96	Hushun-Waitoushan	60
Takushan-Tashihchiao	175	Waitoushan-Liaoyang	65
Chuangho-Paipin	120	CHENGHU LINE:	
Chuangho-Siuyen	72	Hushun-Chengchang	110
Siuyen-Haicheng	100	FENGCHENG LINE:	
Chehmucheng-Pachakou	12	Mukden-Kangping	119
HAINIU LINE:		Faku-Changkutai	108
Haicheng-Niuchuang	25	Faku-Tungchiangkou	29
Yingkow-Neuchuang	40	Hsiaokou-Kangping	39
HAILIAO LINE:		Faku-Ilu	72
Haicheng-Liaoyang	62	MINCHANG LINE:	
ANREN LINE:		Hsinmin-Changwu	62
Lishan-Liaoyang	16		

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CHINCHOW RAILWAY BUREAU
(Total Length: 3,146 km.)

JEHOL LINE:		Chinchow City	11
Lingyuan-Suichung	184	Chaoyang-Chienping	82
Suichung-Minshuitangpienmen	43	Yehaishou-Hsinghui	115
Pingchuan-Hsifengkou	97	Tahushan-Hsiatientzu	32
Lamatung-Chinglung	103	Weichang-Chihfeng	*130
Chinglung-Hsiatien	69	Weichang-Tolun	*130
Pingchuan-Hsichiao	131	Chihfeng-Linhsi	210
Hsichiao-Nolin	20	PEIHA LINE:	
Hsichiao-Chihfeng	* 59	Fuhsin-Halaton	62
Chengteh-Weichang	135	Paituchangpienmen-Peichen	37
Sanchakou-Kupeikou	91	Fuhsin-Tunglumutewang	21
Yingpang-Fengning	47	PEIKAI LINE:	
Lingyuan-Lengkou	164	Peipiao-Numanchi	152
Chengteh City	3	Kailu-Namanchiao	115
CHINFU LINE:		Tungliao-Koutsinsuchi	92
Chinchow-Sihaikuo	36	TUNGCHIENG LINE:	
Hsingshan-Hulutao	45	Tungliao-Kailu	86
Chinsi-Yangchiachangtzu	35	Kailu-Lintung	180

KIRIN RAILWAY BUREAU
(Total Length: 1,861 km.)

TUNGHUA LINE:		NUNGAN LINE:	
Tunghua-Tsian	*116	Nungan-Fulungchuan	50
Tsian-Yangyutao	19	Nungan-Kuochiatun	* 25
Tsian-Huangpai	34	Nungan-Kaoshantun	60
Tunghua-Pataohao	60	Kuochiatun-Tafangshen	49
Tunghua-Haunjen	94	Mimen-Kaoshantung	30
Tunghua-Tunghua Station	5	CHIUTAI LINE:	
Shanchengchen-Liuho Station	37	Hsiachiutai Sta.-Shanghowan	82
Liuho-Wufenglou	51	Chitamu-Pachitun	45
CHAoyangchen LINE:		Hsiachiutai Sta.-Ssutsingsuitzu	*
Chaoyangchen-Fushung	145	Nankuan-Hsiachiutai Station	30
Peipinanchuan-Wutaokou	85	CHIAOHO LINE:	
Liuho-Kushantzu	28	Chiaoho-Pachiatzu	27
KINGKI LINE:		TUNHAI LINE:	
Hsinking-Kirin	126	Tunhua-Kuanti	32
Kirin-Hsiaofengman	25	Kuanti-Emu	30
ITUNG LINE:		Tungmen-Mahao	28
Itung-Panshih Station	80	Tunhua-Emu	* 50
Itung-Yentungshan Station	90	ANTU LINE:	
Itung-Shihling Station	60	Mingyuehkuo-Antu	124
Chaluo-Shuangyang	37		

* Built in 1938.

MUTANKIANG RAILWAY BUREAU
(Total Length: 1,894 kms.)

TUNGMAN LINE:

Tumen-Mishan	* 45
Hungchung-Tinghsingchen	100
Hungchung-Chingyuchia	51
Tahungkou-Lotzukou	82
Suifenho-Sanchakou	62
Sanchakou-Tinghsingchen	120

MISHAN LINE:

Mishan-Pingyuan	78
Pingyuan-Lishuchen	52
Lishuchen-Mishan	22
Mishan-Mishan Sta.	12
Pingyuan-Pingyuan Sta.	12

Poli-Chitaiho	32
HARTUNG LINE:	
Shanhsin-Chiamussu	106
Chiamussu-Huachuan	39
Huachuan-Fuchin	*113
Fuchin-Tungkiang	76
Shanhsin-Poli	110
Chiamussu-Fuchin	166
Fuchin-Paoching	120
Shakang-Paoching	139
Chiamussu-Hsingshantun	205
Chienchen Sta.-Huanying	5
Huanying-Shanhsinchien	100
Chiamusse City	19

HARBIN RAILWAY BUREAU
(Total Length: 2,225 kms.)

HARTUNG LINE:

Harbin-Hulan	23
Hulan-Mulan	122
Mulan-Tungho	75
Tungho-Shanhsin	81
Fangcheng-Talomi	55
Tungho-Fengshan	60

PINGFENG LINE:

Harbin-Pingfeng	26
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LALIN LINE:

Harbin-Acheng Sta.	45
Hsiangfang-Acheng	36
Acheng-Lalin Sta.	38
Acheng Sta.-Barrack	3

MANKOU LINE:

Mankou-Yuyuan	98
Yuyuan-Fuyu	50
Mankou-Hsikang	82
Hsikang-Mingshui	60
Hsikang-Chifeipaching	52
Lanhsi-Hulan	50
Harbin-Loanthen	30

SANCHAHO LINE:

Sanchaho-Wuchang	120
Sanchaho-Yushu	60
Yushu-Pachitun	60
Wukoshu-Taolaichao	23
Kungpengtzu-Tapahao	12
Hsinglungtien-Ssuchiafang	74
Sanchaho-Fuyu	125
Suchiaputzu-Wuchiachan	18
Hsiaokungpengtzu-Fuyu	72

LALIN LINE:

Yushu-Lalin	59
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NOHEI LINE:

Heiho Aigun	33
Aigun-Chiko	114
Heiho-Chinshangchen	*225
Heiho-Kantachi	124
Sunwu-Chiko	115
N. Sunwu Sta.-Barrack	5

TSITSIHAR RAILWAY BUREAU
(Total Length: 2,826 kms.)

TSICHA LINE:		Paichuan-Kotung Sta.	66
Tsitsihar-Kannan	107	Koshan-Peihsingchen	58
Meiliszu-Fulaerhchi	14	Paichuan-Taian Sta.	81
Yungankai-Anganghsi	20	Taian Sta.-Ian	47
TSITA LINE:			
Anganghsi-Tuerpete	100	ANTAI LINE:	
Talahar-Taikang Sta.	106	Anta Sta.-Tatungchen	67
Talahar-Tatungchen	74	Tatungchen-Yuchow	57
NOHEI LINE:		HSINGAN LINE:	
Noho-Puhsi	30	Wengchuan-Hailar	*285
Nunkiang City	6	Hailar-Nalemutu	180
TAILAI LINE:		Hailar City	10
Tailai Chinghsing	107	Taonan-Fengchuan	105
Tatzucheng-Chalainoerh	22	Wangyehmiao-Fengchuan	113
Fulaerchi-Puhsi	54	Sanchiatzu-Wafangchen	44
LINTIEH LINE:		Wangyehmiao-Wafangchen	65
Taikang Sta.-Lintieh	55	KINGTAO LINE:	
Lintieh-Ian	55	Taonan-Ankuang	* 86
Tsitsihar-Lintieth	80	Ankuang-Lungchuantun	30
PAICHUAN LINE:		KANAN LINE:	
Anta Sta.-Paichuan	160	Kaitung-Chienkuochi	155
Paichuan-Koshan Sta.	65	Taipingchuang-Tanyu	45
Anta-Hsikiang	42	Tanyu-Kaitung	50
Paichuan-Hailun	85	CHIENKUOCHI LINE:	
Paichuan-Ian	65	Chienkuochi-Fuyu	8

LENGTH OF ROADS CLASSIFIED

A further interesting list is that showing the classification and mileage of the roads, divided as between the various provinces, as follows:

(End of 1937; Unit: Kilometers)

Province:	Usable year-round	Unusable after rains	Unusable in rainy season	Usable in winter only	Total Length
Kirin	1,015	1,220	2,839	1,577	6,652
Lungkiang	504	3,486	637	1,230	5,857
Sankiang	----	371	2,037	755	3,163
Mutankiang	187	181	625	632	1,625
Pinkiang	1,080	3,490	1,918	319	6,806
Chientao	194	512	249	286	1,241
Tunghua	845	667	432	112	2,056
Antung	652	1,357	2,727	20	4,756
Fengtien	2,900	3,205	1,518	129	7,841

Length of Roads Classified (Cont'd.)

Province:	Usable year-round	Unusable after rains	Unusable in rainy season	Usable in winter only	Total Length
Chinchow	1,847	1,122	1,189	237	4,395
Jehol	1,118	1,711	1,159	166	4,153
Hsingan S	295	761	494	45	1,495
Hsingan E	47	185	---	199	431
Total...	(10,773 (20%	18,267 36%	15,723 31%	5,706 12%	50,468 100%

North East. It will be noted that this does not include Heiho, Hsingan-West or Hsingan-East. This information is not available for these three provinces.

WATERWAYS

Additional and later statistics are also available as to the waterways, as follows:

Regular River Voyage Course
(September, 1938)

	Km.
Harbin-Fuchin	623
Harbin-Chiamussu	451
Harbin-Heiho	1,418
Harbin-Hulin	1,286
Chiamussu-Hulin	835
Chiamussu-Heiho	967
Harbin-Fuyu-Talai	332
Heiho-Moho	453
Heiho-Chikote	154
Hulin-Lungwangmiao	275
Chiamussu-Lienklangkou	5
Total	6,799

Number of Registered River Vessels
(August, 1938)

Capacity: (tons)	<u>Steamers</u>		<u>Sailing Vessels</u>		<u>Tugboats</u>	
	No.	tons	No.	tons	No.	tons
Above 20	16	672	112	3,652	101	6,964
100	41	9,034	---	---	56	8,677
300	35	13,948	---	---	64	25,830
500	28	20,058	---	---	---	33,575
1,000	7	8,172	---	---	---	---
Total:	127	51,883	112	3,652	273	74,945

The Sungari River

In the upper region of the Sungari, above Kirin, the river is shallow and navigable only by steam launches, with a draught of two feet. Between Kirin and Sincheng, the river is navigable for boats up to 9 ft. draught and between Harbin and the mouth, boats up to 1,000 tons are used.

The Liaohe River

This river is navigable from its mouth to Chengchiatun, but there are numerous sand bars. In addition, drifting ice stops all traffic about November 28 each year, and the river is frozen over by about December 31. The thaw usually sets in about the middle of March and the river is usually free of drifting ice by about March 30.

The Yalu River

The Yalu Transport Company and the Yalu Steam Craft Company conduct navigation of sorts on this river, by means of air-propeller boats and other special craft. However, boats of more than 10 ft. draught cannot even get up as far as Antung. The Yalu is important however because of the rafting of timber. At Antung, the Yalu is frozen over from December to March.