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**REPORT ON WAR AID FURNISHED BY THE
UNITED STATES TO THE U.S.S.R.**

June 22, 1941 - September 20, 1945

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REPORT ON WAR AID FURNISHED BY THE
UNITED STATES TO THE U.S.S.R.

U. S. Army Military History Institute



Prepared by
the Protocol and Area Information Staff
of the U.S.S.R. Branch and the
Division of Research and Reports
November 28, 1945

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U.S. WAR AID TO THE U.S.S.R.
June 22, 1941 to September 20, 1945

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On June 24, 1941, two days after the invasion of the Soviet Union by Germany, the President inaugurated the United States policy of aiding the U.S.S.R. in obtaining war supplies from the United States for use against the German army. Shortly before the United States entered the war the President reaffirmed and strengthened this policy by declaring the U.S.S.R. eligible for aid under the terms of the Lend-Lease Act. After the defeat of Germany the President directed that lend-lease supplies be shipped to support Soviet forces opposing the Japanese in the Far East.

This report summarizes the aid which the United States furnished to the Soviet Union in the form of supplies, shipping and services during the period from the German invasion on June 22, 1941, to the capitulation of Japan and the sailing of the last vessel carrying war supplies to the Soviet Far East on September 20, 1945. This is the last of a series of monthly reports on the status of the Soviet aid program initiated at the request of the President to the Lend-Lease Administrator on March 17, 1942.

JUNE 22, 1941 TO SEPTEMBER 30, 1941

The freeing of frozen Soviet cash purchases in the United States, the expediting of deliveries of cash orders already placed, and the placing of new orders for munitions, marked the beginning of the U.S. Soviet aid program. Financial assistance was rendered in the form of advances by the U.S. Treasury against the delivery of gold (\$10,000,000) and an advance by the Defense Supplies Corporation against the purchase of special commodities needed by the U.S. (\$50,000,000). The small volume of munitions production in the United States and the limited size of the U.S. merchant fleet precluded substantial aid during this period.

A summary of the 166,000 long tons of cargo actually shipped during this period is given in the following table.

Shipments from the Western Hemisphere to the U.S.S.R.

June 22, 1941 to September 30, 1941

(Long Tons)

Type of Cargo	Route			Distribution of Total Tonnage
	Atlantic	Pacific	Total	
U.S. Supplies				
R.R. Transportation Equipment	0	0	0	0%
Trucks and Other Vehicles	1,561	14	1,575	1
Metals	1,251	3,404	4,655	3
Chemicals and Explosives	1,033	3,693	4,726	3
Petroleum Products	9,500	120,854	130,354	79
Machinery and Equipment	280	15,575	15,855	10
Food	19	3,899	3,918	2
Other U.S. Supplies	1,258	1,365	2,623	1
U.S. Total	14,902	148,804	163,706	99
Canadian and British Supplies	0	0	0	0
Supplies from Other Sources	0	2,494	2,494	1
Total	14,902	151,298	166,200	100%

Included in the above shipments were 59 pursuit planes and 444 cargo trucks.

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OCTOBER 1, 1941 TO JUNE 30, 1942

The First (Moscow) Protocol (Signed October 1, 1941)

In late September 1941, representatives from the United States and the United Kingdom met with Soviet officials in Moscow to determine Soviet needs and to inform the Soviet Government of the extent to which supplies could be furnished to aid the Soviet war effort. This conference resulted in the Moscow Protocol, the first of a series of tri-partite agreements between the United States and the United Kingdom as the supplying countries and the U.S.S.R. as the recipient. This Protocol listed the specific items which the supplying countries agreed to furnish to the U.S.S.R. to aid in the defeat of the common enemy.

United States entry into the war caused a serious interruption in the procurement and shipment of supplies under the First Protocol as material and shipping were diverted for the vital needs of U.S. forces. Difficulties in the adjustment of U.S. specifications to meet Soviet standards delayed procurement. However, after the seizure of all military supplies in this country by U.S. forces on December 8, 1941, the President directed on December 28, 1941 that monthly Protocol deliveries be reestablished as of January 1, 1942, and that all deficits be made up by April 1. A second directive from the President on March 17, 1942 placed Protocol commitments above other war programs.

Soviet dollar balances represented but a small portion of the financial needs for implementation of the First Protocol. In October 1941 and January 1942, additional advances totalling \$50,000,000 were made by the U.S. Treasury against the future delivery of gold. On November 7, 1941, the President declared the U.S.S.R. eligible for lend-lease aid and granted to the U.S.S.R. the first of two lend-lease credits of one billion dollars each. These credits were absorbed by the U.S.S.R. Master Lend-Lease Agreement executed on June 11, 1942.

By the end of the First Protocol period, June 30, 1942, approximately 80 percent of the estimated value of the supplies which the U.S. had agreed to make available "at U.S. centers of production" had been made ready for shipment. The value of extra-Protocol items made available more than compensated for the deficiencies in Protocol items.

U.S. supplies amounting to 1,273,600 long tons were shipped during the first Protocol period. Together with 146,600 long tons of supplies from other sources in the Western Hemisphere, a total of 1,420,300 long tons were shipped. Of this total, 306,700 long tons were lost at sea, primarily on the route to Murmansk. Twenty-two additional vessels enroute to Murmansk were unloaded in the United Kingdom during May and June to await movement to North Russia under the more favorable conditions of winter darkness. Cargo from these ships which could be used by allied forces in the United Kingdom were transferred from Soviet account.

A summary of cargo shipped during the First Protocol period is given below.

Shipments from the Western Hemisphere to the U.S.S.R.

October 1, 1941 to June 30, 1942

(Long Tons)

Type of Cargo	Route			Distribution of Total Tonnage
	Atlantic	Pacific	Total	
U.S. Supplies				
R.R. Transportation Equipment	0	0	0	0%
Trucks and Other Vehicles	214,148	16	214,164	15
Metals	411,619	12,906	424,525	30
Chemicals and Explosives	55,542	465	56,007	4
Petroleum Products	132,459	35,536	167,995	12
Machinery and Equipment	29,116	576	29,692	2
Food	129,999	175,038	305,037	22
Other U.S. Supplies	74,281	1,943	76,224	5
U.S. Total	1,047,164	226,480	1,273,644	90
Canadian and British Supplies	137,841	8,770	146,611	10
Supplies from Other Sources	0	0	0	0
Total	1,185,005	235,250	1,420,255	100%

During this period a total of 1,311 aircraft left the United States for the Soviet Union, 72 by air via the South Atlantic and 1,239 by water. Other items shipped during the period included 263 marine engines, 2,010 tanks, 20 field repair trucks, 6,292 jeeps, 36,881 trucks, 1,200 motorcycles, 171 tractors, 70,491 submachine guns, 1,887 short tons of smokeless powder and 10,488 short tons of TNT.

JULY 1, 1942 TO JUNE 30, 1943

The Second (Washington) Protocol (Signed October 6, 1942)

Although signature of the Second Protocol was delayed, procurement of supplies and shipping continued without interruption after the termination of the First Protocol on June 30, 1942. Convoys to North Russia were again delayed by enemy activities in the North Atlantic and 30 additional vessels were discharged in the United Kingdom to await more favorable shipping conditions. Shipping from the United States West Coast was increased by the transfer of 53 U.S. merchant vessels and 6 tankers to operate under Soviet registry for the movement of non-munitions items through Japanese waters to the Soviet Far East. The increase of cargo shipped from the West Coast, together with a substantial increase in the capacity of the Persian Gulf route, made possible by the improvement of the facilities in the Persian Corridor, more than offset the loss of capacity via North Russia.

On October 30, 1942, the President formed a Soviet Protocol Committee to be responsible for fulfillment and overall coordination of the Soviet Protocols. On January 9, 1943, the President implemented the Second Protocol, directing that the U.S. "provide — the maximum amount of supplies which can be delivered to (Soviet) ports."

Under the Second Protocol the United States made available both Protocol and extra-Protocol supplies estimated at 100 percent of the tonnage promised.

A total of 3,054,300 long tons of supplies were shipped from the Western Hemisphere to the U.S.S.R. during the Second Protocol period. This represented 76 percent of the 4,018,500 long tons planned. A summary of the types of cargo shipped during the period is given in the following table.

Shipments from the Western Hemisphere to the U.S.S.R.

July 1, 1942 to June 30, 1943

(Long Tons)

Type of Cargo	Route			Distribution of Total Tonnage
	Atlantic	Pacific	Total	
U.S. Supplies				
R.R. Transportation Equipment	0	0	0	0%
Trucks and Other Vehicles	308,919	139,569	448,488	15
Metals	460,874	289,016	749,890	24
Chemicals and Explosives	70,697	110,669	181,366	6
Petroleum Products	54,331	159,157	213,488	7
Machinery and Equipment	28,604	139,864	168,468	5
Food	294,236	703,547	997,783	33
Other U.S. Supplies	167,657	70,119	237,776	8
U.S. Total	1,385,318	1,611,941	2,997,259	98
Canadian and British Supplies	45,898	11,142	57,040	2
Supplies from Other Sources	0	0	0	0
Total	1,431,216	1,623,083	3,054,299	100%

The Alaskan-Siberian aircraft ferry route was opened in September 1942, for delivery of all types of aircraft direct from factories to the Soviet front.

A total of 3,816 aircraft departed for the U.S.S.R. during the period. Of the total, 995 planes were delivered by the United States in fulfillment of Protocol commitments of the United Kingdom.

Other important items shipped included: 1,335 marine engines, 882 naval guns, 1,206 tanks, 284 field repair trucks, 16,158 jeeps, 77,555 trucks, 10,200 motorcycles, 1,719 tractors, 62,292 submachine guns, 35,834 short tons of smokeless powder and 23,415 short tons of TNT.

JULY 1, 1943 TO JUNE 30, 1944

The Third (London) Protocol (Signed October 19, 1943)

Under the Third Protocol the Government of Canada became a signatory, joining the United States and the United Kingdom as a supplying country. The supply of material and shipping began immediately after the close of the Second Protocol on June 30, 1943, although formal signature did not occur until October 19, 1943.

On February 14, 1944, the President reiterated the importance of "providing the maximum amount of supplies which can be delivered to (Soviet) ports". In nearly all instances U.S. commitments to make available supplies at U.S. centers of production were met in full and additional items were supplied in many categories. Shipments from ports amounted to 5,745,700 long tons of cargo which was 30 percent in excess of Protocol shipping promises.

A summary of the types of cargo shipped during the period is given in the following table.

Shipments from the Western Hemisphere to the U.S.S.R.

July 1, 1943 to June 30, 1944

(Long Tons)

Type of Cargo	Route			Distribution of Total Tonnage
	Atlantic	Pacific	Total	
U.S. Supplies				
R.R. Transportation Equipment	39,455	31,011	70,466	1%
Trucks and Other Vehicles	641,618	100,719	742,337	13
Metals	699,971	312,430	1,012,401	18
Chemicals and Explosives	228,848	219,301	448,149	8
Petroleum Products *	45,272	401,434	446,706	8
Machinery and Equipment	182,335	305,166	487,501	8
Food	936,541	798,260	1,734,801	30
Other U.S. Supplies	350,517	122,451	472,968	8
U.S. Total	3,124,557	2,290,772	5,415,329	94
Canadian and British Supplies	31,741	298,652	330,393	6
Supplies from Other Sources	0	0	0	0
Total	3,156,298	2,589,424	5,745,722	100%

* In addition, the United States transported through the Persian Corridor 166,359 long tons of petroleum products supplied by British refineries at Abadan. This tonnage was replaced for British use from United States sources.

The United States delivered a total of 5,735 aircraft to the Soviet Union during the Third Protocol period. Of those delivered, 1,732 were for U.K. Protocol account.

Other important items shipped included: 70 submarine chasers, 3,172 marine engines, 2,958 naval guns, 1,770 tanks, 800 field repair trucks, 20,012 jeeps, 121,947 trucks, 12,716 motorcycles, 2,610 tractors, 2,850 submachine guns, 81,864 short tons of smokeless powder, 64,431 short tons of TNT, 339 steam locomotives and 1,640 flat cars.

JULY 1, 1944 TO MAY 12, 1945

The Fourth (Ottawa) Protocol (Signed April 17, 1945)

On January 5, 1945, the President restated the importance of supply to the U.S.S.R. placing deliveries of materials "second only to the operational requirements in the Pacific and the Atlantic". Although the Fourth Protocol period was designed to run to June 30, 1945, the capitulation of Germany on May 8, 1945, automatically brought commitments of the Fourth Protocol under review. A new policy of aid was established by the President on May 12, 1945, discontinuing assistance to the European front and approving the supply of materials to support Soviet military operations in the Far East on the assumption that the U.S.S.R. would enter the war against Japan.

Supply under the Fourth Protocol began immediately after termination of the Third Protocol, although formal signature did not occur until April 17, 1945.

Delay in signing the Fourth Protocol was caused primarily by Soviet requests for long-range industrial equipment on lend-lease terms. Such supplies were included in the Protocol schedules subject to the terms of financial arrangements to be agreed upon. Such arrangements were never completed and production was never initiated.

Shipping during the Fourth Protocol utilized all routes to the U.S.S.R. including large quantities which were safely convoyed to North Russia. The reopening of the Black Sea route allowed the closing of the route via the Persian Gulf in February 1945. Thirty-two additional merchant vessels were transferred to Soviet registry, increasing the quantities of supplies which could be shipped via the Pacific.

Cargo shipped during the Fourth Protocol period to May 12, 1945, totalled 5,532,800 long tons or 95 percent of the quantity scheduled in the Protocol for the entire period to June 30.

Types of cargo shipped in this period are summarized in the following table.

Shipments from the Western Hemisphere to the U.S.S.R.

July 1, 1944 to May 12, 1945

(Long Tons)

Type of Cargo	Route			Distribution of Total Tonnage
	Atlantic	Pacific	Total	
U.S. Supplies				
R.R. Transportation Equipment	146,901	208,838	355,739	6%
Trucks and Other Vehicles	531,235	114,035	645,270	12
Metals	654,164	468,432	1,122,596	20
Chemicals and Explosives	206,670	192,676	399,346	7
Petroleum Products *	250,455	498,285	748,740	13
Machinery and Equipment	232,585	243,060	475,645	9
Food	553,674	603,699	1,157,373	21
Other U.S. Supplies	188,986	121,515	310,501	6
U.S. Total	2,764,670	2,450,540	5,215,210	94
Canadian and British Supplies	51,863	265,707	317,570	6
Supplies from Other Sources	0	0	0	0
Total	2,816,533	2,716,247	5,532,780	100%

* In addition, the United States transported through the Persian Corridor 388,843 long tons of Petroleum products supplied by British refineries at Abadan. This tonnage was replaced for British use from U.S. sources.

During this period 2,983 U.S. aircraft were sent to the Soviet Union. Of these, 178 were in fulfillment of Protocol offerings of the United Kingdom.

Other items shipped included: 35 submarine chasers, 2,650 marine engines, 1,182 naval guns, 1,978 tanks, 350 field repair trucks, 6,615 jeeps, 105,006 trucks, 9,939 motorcycles, 2,413 tractors, 18,487 short tons of smokeless powder, 42,590 short tons of TNT, 1,256 steam locomotives and 8,358 flat cars.

MAY 13, 1945 TO SEPTEMBER 2, 1945

Soviet Participation in the Pacific War

Under the President's directive of May 12, 1945, Fourth Protocol supplies (Annex III) designed for use of the Soviet armies in the Far East continued to be shipped from West Coast ports. Additional supplies required by the Soviet armed forces were requested on May 30, 1945, and with supplies of Annex III of the Fourth Protocol were procured and shipped as rapidly as possible. The Soviet Union declared war on Japan on August 8, 1945. The rapid capitulation of Japan, followed by the official end of the war on September 2, 1945, halted the Soviet war aid program.

During this entire period shipments continued from U.S. West Coast ports through Japanese waters without loss. A total of 1,541,700 long tons of cargo was shipped from May 13 to September 2, 1945.

Shipments from the Western Hemisphere to the U.S.S.R.

May 13, 1945 to September 2, 1945

(Long Tons)

Type of Cargo	Route			Distribution of Total Tonnage
	Atlantic	Pacific	Total	
U.S. Supplies				
R.R. Transportation Equipment	9,067	32,313	41,380	3%
Trucks and Other Vehicles	28,353	209,764	238,117	15
Metals	37,988	211,214	249,202	16
Chemicals and Explosives	7,279	50,509	57,788	4
Petroleum Products	34,496	371,670	406,166	26
Machinery and Equipment	30,465	38,073	68,538	4
Food	22,594	235,607	258,201	17
Other U.S. Supplies	13,972	103,235	117,207	8
U.S. Total	184,214	1,252,385	1,436,599	93
Canadian and British Supplies	7,613	97,487	105,100	7
Supplies from Other Sources	0	0	0	0
Total	191,827	1,349,872	1,541,699	100%

During this short period, 744 U.S. aircraft departed for the U.S.S.R. via the Alaskan-Siberian ferry route. Other items shipped included: 454 marine engines, 92 tanks, 89 field repair trucks, 2,426 jeeps, 42,599 trucks, 1,115 motorcycles, 1,119 tractors, 2,459 short tons of smokeless powder, 5,459 short tons of TNT, 316 steam locomotives and 2 flat cars.

SEPTEMBER 3, 1945 TO SEPTEMBER 20, 1945

Period of Termination

Small quantities of materials continued to move to the Soviet Union after the capitulation of Japan. These movements were continued to avoid the difficulties inherent in an abrupt stoppage of supply. The Soviet Protocol Committee, which was formed to carry out the President's policies and which coordinated the U.S. war aid program to the Soviet Union, was dissolved by the President on September 20, 1945. On October 15, 1945 representatives of the two governments executed an agreement whereby the government of the United States agreed to sell on a credit basis and the government of the U.S.S.R. agreed to accept certain remaining lend-lease supplies valued at approximately \$300,000,000.

Cargo shipped during the period of termination is summarized in the following table.

Shipments from the Western Hemisphere to the U.S.S.R.

September 3, 1945 to September 20, 1945

(Long Tons)

Type of Cargo	Route			Distribution of Total Tonnage
	Atlantic	Pacific	Total	
U.S. Supplies				
R.R. Transportation Equipment	0	947	947	2%
Trucks and Other Vehicles	0	879	879	2
Metals	2,801	9,014	11,815	30
Chemicals and Explosives	39	343	382	1
Petroleum Products	0	0	0	0
Machinery and Equipment	819	1,330	2,149	5
Food	1,989	5,875	7,864	20
Other U.S. Supplies	1,325	2,683	4,008	10
U.S. Total	6,973	21,071	28,044	70
Canadian and British Supplies	2,331	9,603	11,934	30
Supplies from Other Sources	0	0	0	0
Total	9,304	30,674	39,978	100%

Individual items shipped included: 34 marine engines, 104 trucks and 42 tractors.

SUMMARY

During the period from June 22, 1941 to September 20, 1945 a total of 17,500,900 long tons of cargo were shipped to the U.S.S.R. from the Western Hemisphere. Of this total, 16,529,800 long tons (94 percent) were supplies of U.S. origin. A summary of the types of cargo shipped is given below.

Shipments from the Western Hemisphere to the U.S.S.R.

June 22, 1941 to September 20, 1945

(Long Tons)

Type of Cargo	Route			Distribution of Total Tonnage
	Atlantic	Pacific	Total	
U.S. Supplies				
R.R. Transportation Equipment	195,423	273,109	468,532	3%
Trucks and Other Vehicles	1,725,834	564,996	2,290,830	13
Metals	2,268,668	1,306,416	3,575,084	20
Chemicals and Explosives	570,108	577,656	1,147,764	7
Petroleum Products *	526,513	1,586,936	2,113,449	12
Machinery and Equipment	504,204	743,644	1,247,848	7
Food	1,939,052	2,525,925	4,464,977	25
Other U.S. Supplies	797,996	423,311	1,221,307	7
U.S. Total	8,527,798	8,001,993	16,529,791	94
Canadian and British Supplies	277,287	691,361	968,648	6
Supplies from Other Sources	0	2,494	2,494	0
Total	8,805,085	8,695,848	17,500,933	100%

* In addition, the United States transported through the Persian Corridor 555,202 long tons of petroleum products supplied by British refineries at Abadan. This tonnage was replaced for British use from U.S. sources.

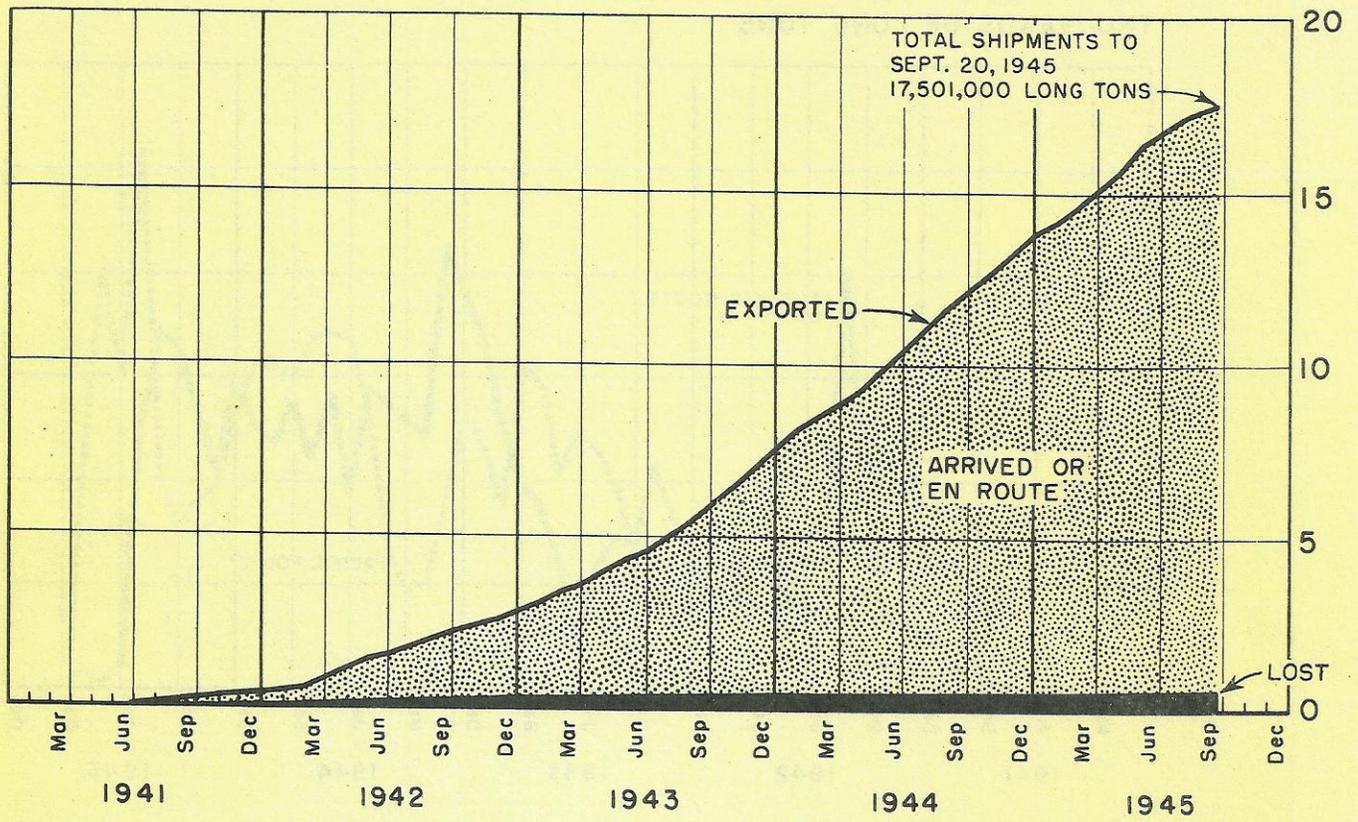
Approximately 98 percent of all U.S. supplies shipped to the Soviet Union during the period June 22, 1941 to September 20, 1945 was of lend-lease origin. The value of lend-lease supplies transferred to the U.S.S.R. is reported to be approximately \$10,200,000,000. In addition to the lend-lease supplies transferred, the United States provided many services under lend-lease. These services included ocean transportation for supplies shipped on U.S. controlled vessels, major alterations and voyage repairs of Soviet flag vessels, ships stores, bunkers, port dues etc. for Soviet flag vessels, training of Soviet crews for operation of lend-lease naval aircraft and naval vessels. The value of such services rendered is approximately \$700,000,000.

In addition to the above the United States provided aid indirectly through such projects as the operation of the Alaskan-Siberian air ferry route for delivery of lend-lease planes and the operation of the Persian Gulf Command which transported supplies through the Persian Corridor into Soviet custody in Northern Iran.

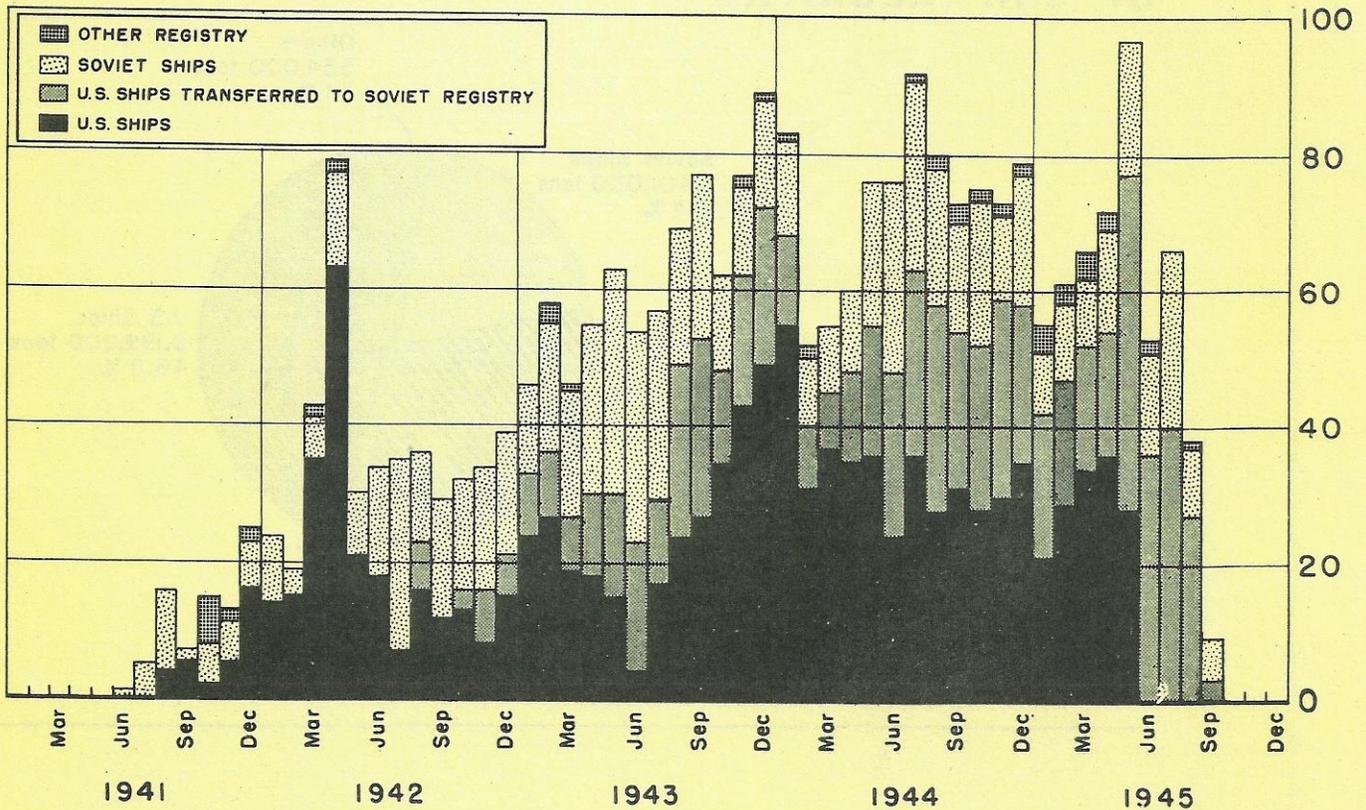
In return, the Soviet Government provided reverse lend-lease aid by servicing and storing U.S. vessels in Soviet ports and by providing supplies and services to U.S. Army Air Force shuttle bombing bases located in Soviet territory.

SHIPMENTS TO U.S.S.R.

CUMULATIVE - MILLIONS OF LONG TONS

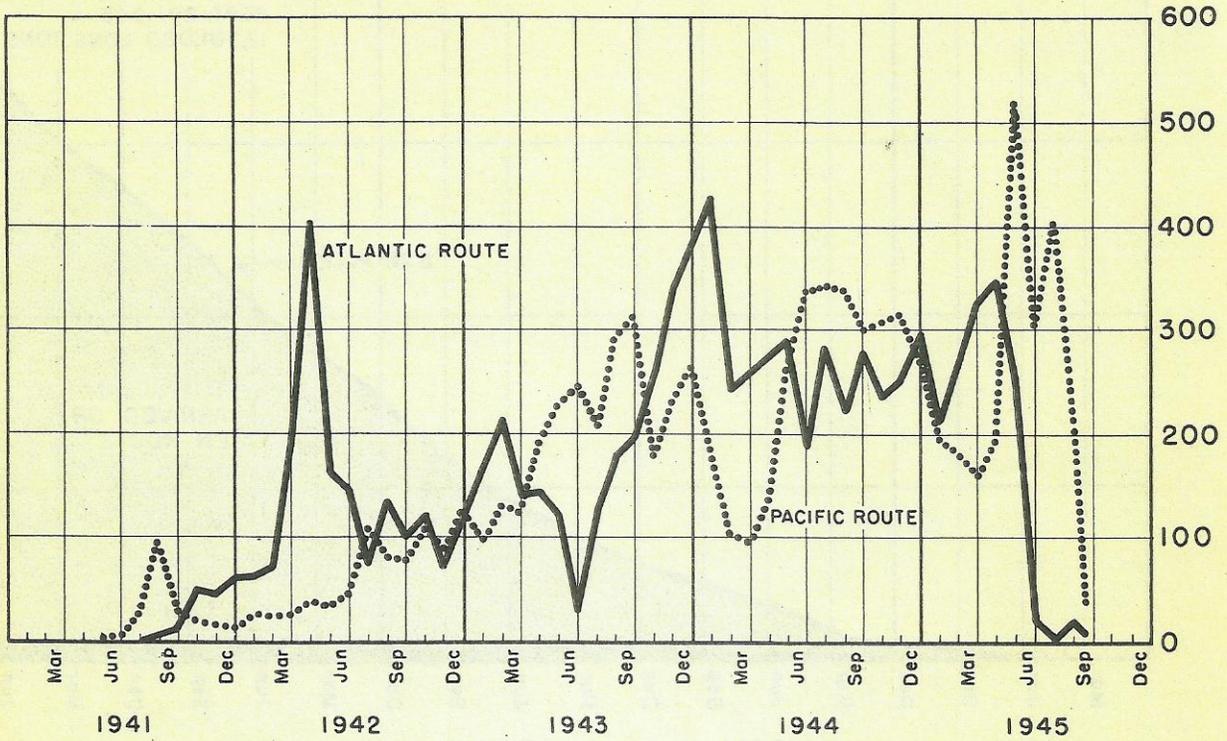


NUMBER OF SHIPS SAILING EACH MONTH

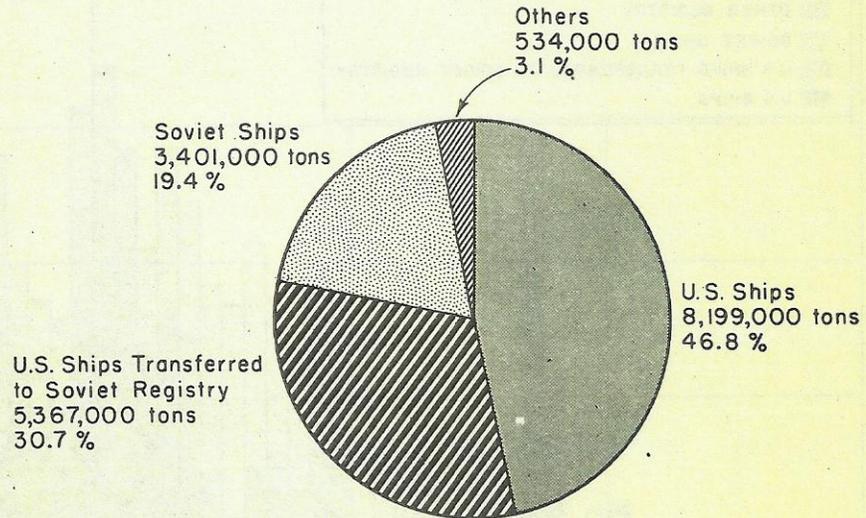


MONTHLY SHIPMENTS BY ROUTE

THOUSANDS OF LONG TONS



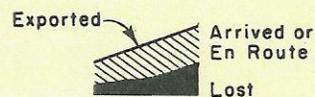
DISTRIBUTION OF TONNAGE BY SHIP REGISTRY



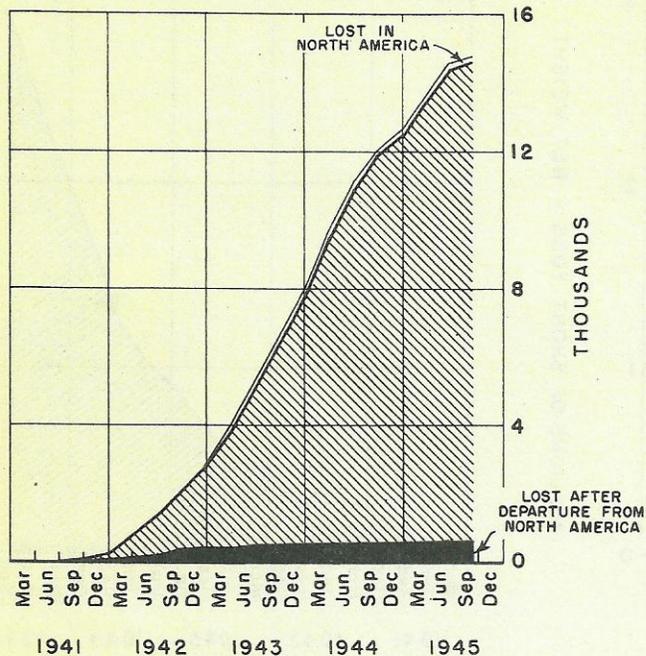
SHIPMENTS, IN GROSS LONG TONS, FROM JUNE 22, 1941 TO SEPTEMBER 20, 1945

EXPORTS

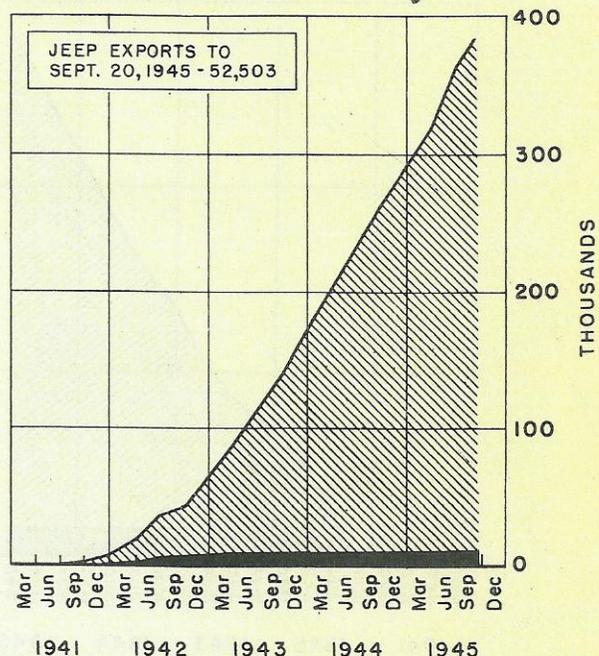
CUMULATIVE SINCE JUNE 22, 1941



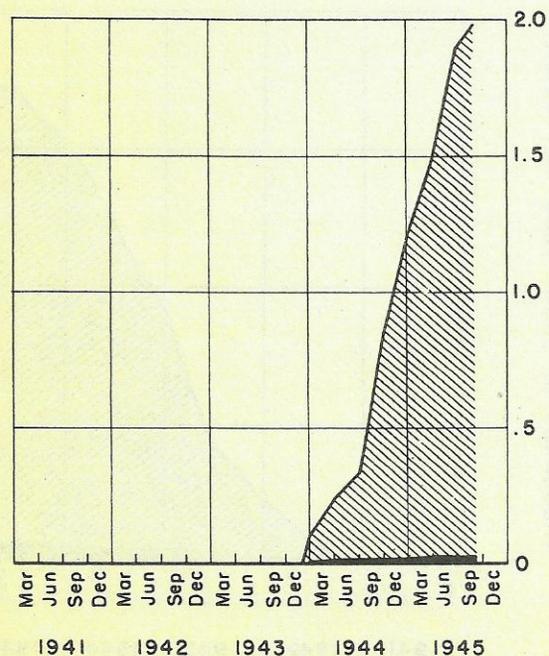
ARMY AIRCRAFT



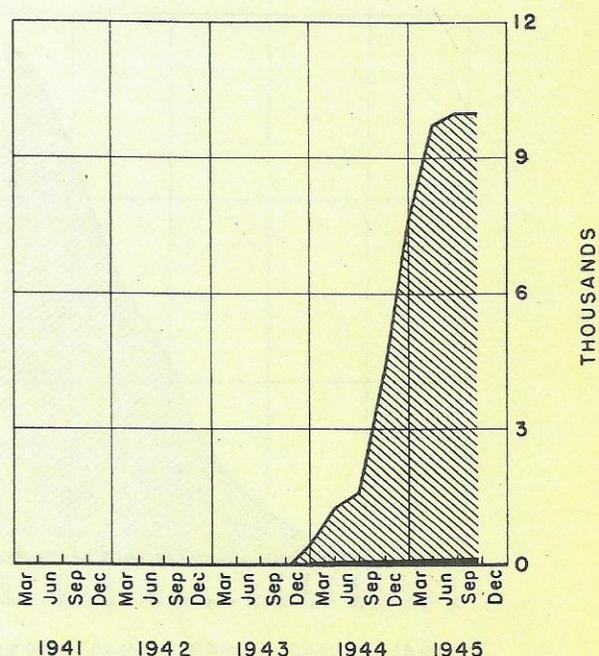
TRUCKS (EXCLUDING JEEPS)



LOCOMOTIVES

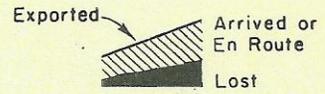


FLAT CARS

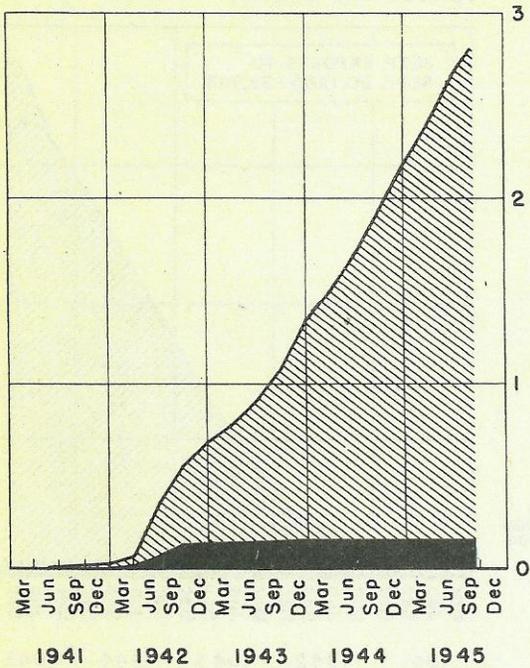


EXPORTS

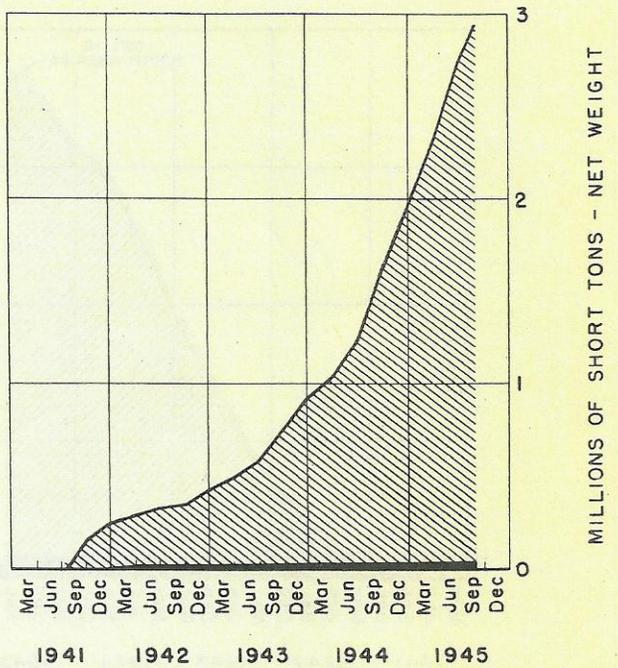
CUMULATIVE SINCE JUNE 22, 1941



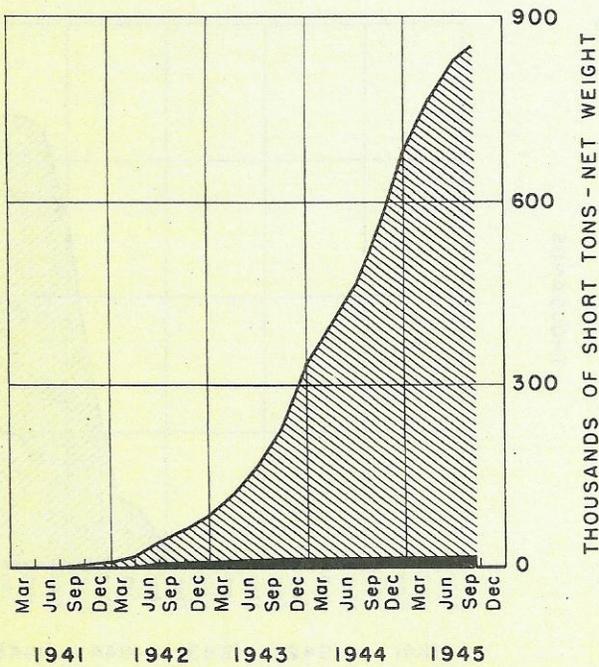
STEEL



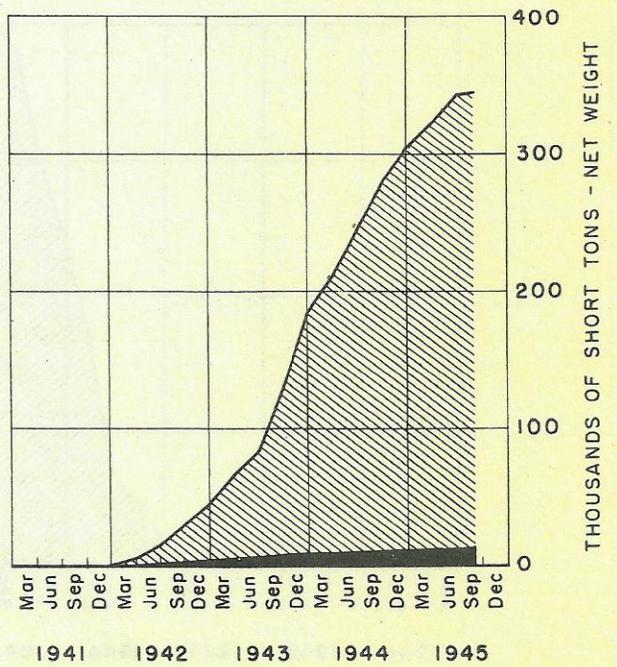
PETROLEUM PRODUCTS



CHEMICALS

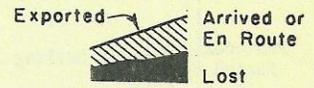


EXPLOSIVES

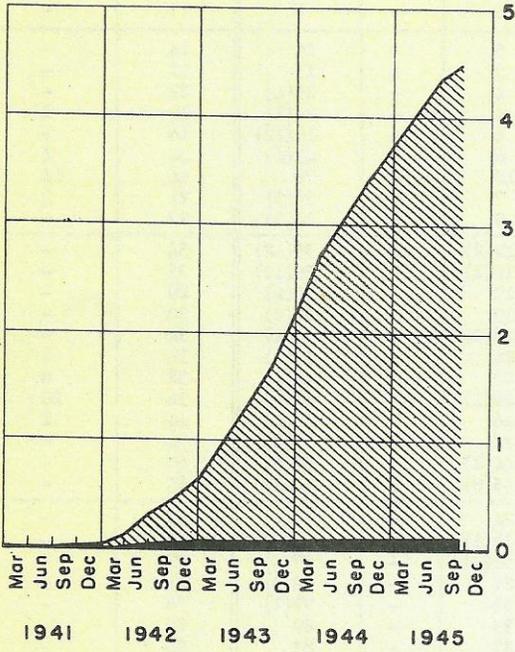


EXPORTS

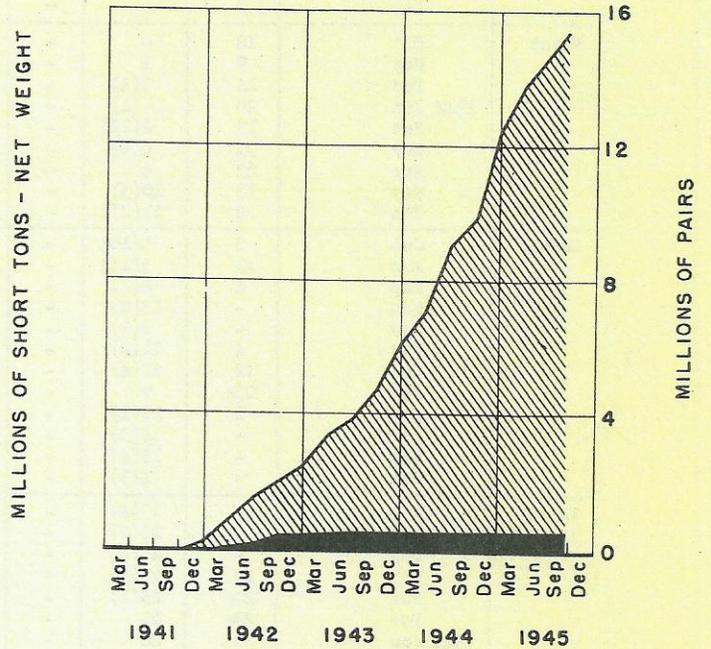
CUMULATIVE SINCE JUNE 22, 1941



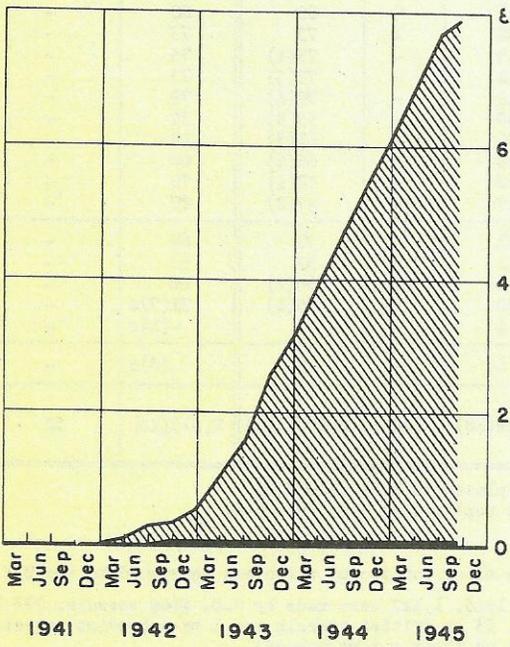
FOODSTUFFS



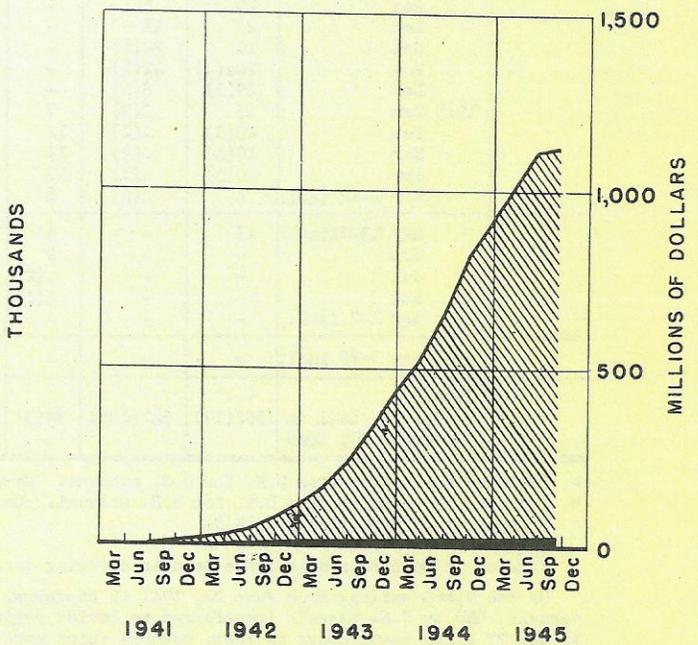
ARMY BOOTS



MARINE ENGINES



MACHINERY AND EQUIPMENT



STATEMENT OF VESSELS SAILED TO U.S.S.R. FROM THE WESTERN HEMISPHERE
June 22, 1941 to September 20, 1945

Protocol Period	Date of Sailing	Number of Vessels Sailing						Arrived	Cargo Discharged in U.K.	Lost	Losses by Month	
		For North Russia	For Persian Gulf	For Black Sea	For Soviet Far East	For Soviet Arctic	Total					
	1941 Jun 22-30incl.	-	-	-	1	-	1	1	-	-	-	
	Jul	-	-	-	5	-	5	5	-	-	-	
	Aug	1	-	-	15	-	16	16	-	-	-	
	Sep	3	-	-	4	-	7	7	-	-	-	
First	Oct	10	-	-	5	-	15	14	-	1	-	
	Nov	9	1	-	3	-	13	12	-	1	-	
	Dec	14	7(4)	-	4	-	25(4)	22	-	3	1	
	1942 Jan	20	-(1)	-	4	-	24(1)	19	1	4	3	
	Feb	13	2(12)	-	4	-	19(12)	16	-	3	1	
	Mar	31	6(6)	-	6	-	43(6)	32	4	7	9	
	Apr	63	6	-	10	-	79	46	14	19	-	
	May	13	10(3)	-	7	-	30(3)	21	3	6	6	
	Jun	8	11(2)	-	9	6	34(2)	27	-	7	6	
Second	Jul	2	5(10)	-	12(2)	16	35(12)	34	-	1	16	
	Aug	11	5(11)	-	19(1)	1	36(12)	33	-	3	1	
	Sep	4	8(2)	-	17	-	29(2)	29	-	-	10	
	Oct	-	13(2)	-	19	-	32(2)	32	-	-	-	
	Nov	-	8(2)	-	26(2)	-	34(4)	32	-	2	3	
	Dec	4	11(4)	-	24	-	39(4)	38	1	-	-	
	1943 Jan	12	12(4)	-	22	-	46(4)	38	8	-	-	
	Feb	23a	7	-	28(1)	-	58(1)	36	20	2	1	
	Mar	1	19(1)	-	26	-	46(1)	44	1	1	2	
	Apr	-	18(3)	-	37	-	55(3)	54	-	1	1	
	May	-	15(4)	-	44(1)	4	63(5)	62	-	1	-	
	Jun	-	4(3)	-	45(8)	5	54(11)	54	-	-	2	
	Third	Jul	-	17(4)	-	24	16	57(4)	57	-	-	-
		Aug	-	24(2)	-	38(1)	7	69(3)	67	-	2	2
Sep		-	27(2)	-	50(2)	-	77(4)	77	-	-	-	
Oct		10	25(3)	-	27	-	62(3)	61	-	1	-	
Nov		20a	25(1)	-	32	-	77(1)	76	-	1	1	
Dec		29a	21	-	39	-	89	87	-	2	-	
1944 Jan		30	26	-	27	-	83	82	-	1	3	
Feb		17b	16	-	19	-	52	51	-	1	1	
Mar		16	21(1)	-	18	-	55(1)	53	-	2	1	
Apr		-	35	-	25	-	60	59	-	1	3	
May		-	36	-	40	-	76	76	-	-	-	
Jun		-	24(2)	-	43	9	76(2)	76	-	-	-	
Fourth		Jul	20	17(3)	-	40	15	92(3)	91	-	1	-
		Aug	25	5	-	41	9	80	80	-	-	1
	Sep	23	11	-	38	1	73	73	-	-	-	
	Oct	10	20(1)	-	45	-	75(1)	75	-	-	-	
	Nov	20a(4)	12(1)	-	41	-	73(5)	73	-	-	-	
	Dec	29(3)	8(1)	-	42	-	79(4)	79	-	-	-	
	1945 Jan	15	3(3)	7	30	-	55(3)	55	-	-	-	
	Feb	20(3)	-(2)	12	29	-	61(5)	59	-	2	-	
	Mar	19(4)	-(2)	19	28	-	66(6)	66	-	-	2	
	Apr	20(3)	-(1)	20	32	-	72(4)	72	-	-	-	
	May 1-12 incl.	4	-(2)	6	17	-	27(2)	27	-	-	-	
	May 13-31incl.	13	-	6	51	-	70	69	-	1	-	
	Jun	-	-	2	44	7	53	53	-	-	1	
	Jul	-	-	(2)	46	20	66(2)	66	-	-	-	
Aug	-	-	4(1)	30	4	38(1)	31(7)c	-	-	-		
Sep 1-2 incl.	-	-	-	1	-	1	-(1)c	-	-	-		
Sep 3-20 incl.	-	-	2	6	-	8	-(8)c	-	-	-		
Total	June 22, 1941 to September 20, 1945	582(17)	541(105)	78(3)	1,339(18)	120	2,660(143)	2,515[16]	52	77	77	

a Includes one tanker from U.K. for U.S. account. Cargo replaced to U.K. from U.S.

b Includes two tankers from U.K. for U.S. account. Cargoes replaced to U.K. from U.S.

c Enroute as of September 20, 1945.

Figures in parentheses indicate vessels carrying cargo, a minor portion of which was consigned to the U.S.S.R.

Of the 2,660 sailing from June 22, 1941 to September 20, 1945, 1,127 were made by U.S. flag vessels, 793 by Soviet flag vessels, 686 by U.S. vessels transferred to Soviet registry, 53 by British vessels and 1 by a Swedish vessel. In addition to the 77 ships shown above as lost, several ships were lost on their return voyages.

STATEMENT OF CARGO SHIPPED FROM WESTERN HEMISPHERE TO U.S.S.R.
June 22, 1941 To September 20, 1945
(Thousand of Gross Long Tons)

Protocol Period	Date of Sailing	For North Russia	For Persian Gulf	For Black Sea	For Soviet Far East	For Soviet Arctic	Total	Arrived	Cargo Discharged in U.K.	Lost	Losses by Month	
First	1941 Jun 22-30incl.	-	-	-	3	-	3	3	-	-	-	
	Jul	-	-	-	28	-	28	28	-	-	-	
	Aug	4	-	-	93	-	97	97	-	-	-	
	Sep	11	-	-	27	-	38	38	-	-	-	
	Oct	48	-	-	17	-	65	62	-	3	-	
	Nov	41	3	-	14	-	58	55	-	3	-	
	Dec	50	10	-	11	-	71	63	-	8	3	
	1942 Jan	63	-	-	26	-	89	70	3	16	9	
	Feb	65	6	-	22	-	93	79	-	14	5	
	Mar	170	18	-	26	-	214	146	28	40	39	
Apr	382	21	-	38	-	441	239	84	118	-		
May	75	87	-	33	-	195	132	14	49	37		
Jun	55	91	-	30	18	194	138	-	56	55		
Second	Jul	13	63	-	63	44	183	174	-	9	106	
	Aug	69	66	-	79	2	216	193	-	23	7	
	Sep	28	72	-	80	-	180	180	-	-	62	
	Oct	-	121	-	108	-	229	229	-	-	3	
	Nov	-	70	-	107	-	177	165	-	12	17	
	Dec	29	91	-	123	-	243	236	7	-	-	
	1943 Jan	74	87	-	97	-	258	210	48	-	-	
	Feb	173	40	-	129	-	342	178	150	14	7	
	Mar	9	131	-	123	-	263	246	9	8	15	
	Apr	-	145	-	193	-	338	331	-	7	7	
	May	-	121	-	216	12	349	341	-	8	-	
	Jun	-	29	-	230	17	276	276	-	-	16	
	Third	Jul	-	126	-	153	57	336	336	-	-	-
		Aug	-	177	-	261	32	470	456	-	14	14
Sep		-	198	-	313	-	511	511	-	-	-	
Oct		66	193	-	181	-	440	431	-	9	-	
Nov		145	195	-	229	-	569	561	-	8	9	
Dec		214	166	-	263	-	643	629	-	14	-	
1944 Jan		222	201	-	176	-	599	596	-	3	22	
Feb		127	114	-	100	-	341	333	-	8	3	
Mar		110	151	-	91	-	352	338	-	14	8	
Apr		-	275	-	134	-	409	405	-	4	18	
May		-	289	-	264	-	553	553	-	-	-	
Jun		-	187	-	308	28	523	523	-	-	-	
Fourth		Jul	156	127	-	276	66	625	623	-	2	-
		Aug	186	36	-	309	31	562	562	-	-	2
	Sep	191	88	-	298	3	580	580	-	-	-	
	Oct	79	157	-	309	-	545	545	-	-	-	
	Nov	155	96	-	314	-	565	565	-	-	-	
	Dec	228	68	-	269	-	565	565	-	-	-	
	1945 Jan	119	31	61	195	-	406	406	-	-	-	
	Feb	153	5	111	181	-	450	435	-	15	-	
	Mar	149	4	172	162	-	487	487	-	-	15	
	Apr	167	1	178	194	-	540	540	-	-	-	
	May 1-12incl.	33	3	63	109	-	208	208	-	-	-	
	May 13-31incl.	105	-	46	409	-	560	551	-	9	-	
	Jun	-	-	22	274	33	329	329	-	-	9	
	Jul	-	-	1	314	93	408	408	-	-	-	
Aug	-	-	18	201	16	235	202(33)*	-	-	-		
Sep 1-2 incl.	-	-	-	10	-	10	-(10)*	-	-	-		
Sep 3-20incl.	-	-	9	31	-	40	-(40)*	-	-	-		
Total	June 22, 1941 to September 20, 1945	3,964	4,160	681	8,244	452	17,501	16,587(83)*	343(a)	488	488	

In addition to the above, the U.S. has aided in the movement through the Persian Corridor of petroleum products originating at British refineries in Abadan, reported to total 555,202 long tons. This product was replaced by allocation from U.S. supplies for British use.

In addition to the above the U.S. turned over to Soviet use substantial quantities of supplies originally shipped to U.S. Air Force shuttle bases in the U.S.S.R. and equipment used by the Persian Gulf Command in Iran.

* Enroute as of September 20, 1945.

(a) The major portion of cargo discharged in the United Kingdom in 1942 and 1943 was onshipped to North Russia without loss.

INDUSTRIAL PLANTS AND PROJECTS FOR THE U.S.S.R.

Tire Plant

This \$10,000,000 project, placed in procurement in November 1942, was designed to produce a minimum of 1,000,000 military tires a year from U.S.S.R. rubber supplies. To utilize U.S. equipment which was idle at the time, the tire plant of the Ford Motor Company was purchased and its basic elements were supplemented with new equipment necessary to complete the production process for large military tires. The project included a power plant to supply the necessary steam and electrical power. Most of the plant was shipped by October 1944, but construction delays prevented production before the end of the war.

Petroleum Refinery Project

This project, approved in September 1942, was developed to replace Soviet refining facilities destroyed by the German army. It consists of four basic plants and two subsidiary plants designed to produce aviation gas, motor gas and lubricating oils. The entire project is valued at \$41,000,000 including engineering and replacements. Fifteen U.S. engineers were sent to the U.S.S.R. to aid in construction. All equipment necessary for operation of all plants was exported by May 1945. A report by the engineers at the end of September stated that the first basic plant was 97 percent completely erected, the second 48 percent, the third 98 percent and the fourth 80 percent completed. Field engineers report that the combination units at basic plants one and three are producing acceptable motor gasoline.

Orders valued at \$17,900,000 were approved in April 1944 for additions to supplement the facilities already supplied. On September 30, 1945, all purchase orders had been placed, 92 percent of the equipment had been delivered by suppliers and 38 percent had been exported. The unexported portions will be shipped under the terms of the Agreement of October 15, 1945, after the U.S.S.R. has negotiated licenses with U.S. patent owners.

Power Program

Under the Second and subsequent Protocols, various projects were approved to increase the power supply in areas of the U.S.S.R. to which war plants had been transferred and for the needs of the Soviet armies in devastated areas. These programs were valued at \$178,000,000 and were capable of producing 1,457,274 K.W. of power as follows:

Stationary Steam Plants	631,939 K.W.
R.R. Power Trains, Steam	267,500 K.W.
Stationary Diesel Plants	327,498 K.W.
Trailer Mounted Diesel Plants	72,945 K.W.
R.R. Power Cars, Diesel	103,000 K.W.
Hydro-Electric Stations	54,392 K.W.

Of the total approved, equipment valued at \$135,000,000 was exported to the U.S.S.R. by September 20, 1945. Of the remaining portion, equipment valued at \$7,000,000 has been diverted to other claimants, equipment valued at \$4,000,000 has been cancelled from production, and the balance of \$32,000,000 is being shipped to the U.S.S.R. under the terms of the Agreement of October 15, 1945.

(continued)

R.R. Block Signal System

This project, approved in January 1943, was designed to permit automatic signal operation of a portion of the U.S.S.R. railroad system. It will increase the carrying capacity of existing rail facilities without increase of rolling stock. The system, valued at \$10,900,000, will provide signal and signal operating equipment for 3,000 K.M. of track. All of the equipment was exported by April 1945. Soviet representatives report that a portion of the system has been placed in operation.

Rolling Mills

An aluminum rolling mill to supply aluminum sheet for the U.S.S.R. aircraft industry was approved for procurement in December 1941. This mill valued at \$6,367,000 was shipped by September 1944.

An 18" merchant mill valued at \$3,500,000 was placed in procurement in November 1942. Most of the equipment required for operation was exported by the end of February 1945.

Two pipe fabricating mills were approved in February 1943 at a cost of \$1,252,000. Although the principal components of these mills were diverted to the U.S. Army to meet the needs for seamless pipe for the rapid advance through France, replacements were completed and the final shipment was made in May 1945.

A project consisting of a blooming mill, rail and structural mill and a railroad tie and fish plate mill and soaking pits was approved for production in November 1943 at a total cost of \$15,000,000. Approximately 80 percent of this equipment was exported prior to September 20, 1945. The balance is being exported under the terms of the Agreement of October 15, 1945.

Steel Expansion Program

Beginning in December 1942, auxiliary equipment for expansion of U.S.S.R. steel facilities was placed in production. When completely installed it is expected to increase Soviet production of carbon steel ingots by 2,500,000 tons a year. Of the total project valued at \$13,200,000, nearly all had been exported by September 20, 1945. Some small components which remained in this country on September 20, 1945 are expected to be delivered under the terms of the Agreement of October 15, 1945.

Other Plants

Wall Board Plant	\$ 662,587
Voltol Pilot Plant	46,005
Nitric Acid Plant	535,398
Hydrogen Gas Plants	531,798
Hydrogen and Catalyst Plants	\$2,626,868

Nearly all of the above equipment was exported to the U.S.S.R. before the close of the program on September 20, 1945. Such equipment as remained unshipped is expected to be delivered under the terms of the Agreement of October 15, 1945.

AIRCRAFT DELIVERIES TO THE U.S.S.R.

18

June 22, 1941 to September 20, 1945

All U.S. Protocol commitments for delivery of aircraft were met in full with the exception of those of the First Protocol. As against First Protocol commitments for 900 bombers and 900 pursuit planes, 697 bombers and 747 pursuits were actually delivered.

Departure points from North America were: U.S. ports for water shipments, Fairbanks for flight-deliveries via the Alaskan-Siberian Ferry route, and Miami, Florida or adjacent fields for flight deliveries via the South Atlantic. Planes shipped by water to North Russia were considered delivered upon arrival at Murmansk or Archangel. Planes shipped by water to the Persian Gulf were assembled at Abadan and with planes arriving there over the South Atlantic Ferry Route were delivered at Abadan to U.S.S.R. pilots. Alaskan-Siberian Ferry Route planes were delivered to Soviet pilots at Fairbanks.

This schedule includes all aircraft which departed from the U.S. for direct delivery to the U.S.S.R. Aircraft shipped from the U.S. intended for use in the United Kingdom but retransferred from the United Kingdom to the U.S.S.R. are not included.

	Delivered at Factories	Lost in North America		Departed North America	Lost After Departure	Diverted to Others	Arrived at Destination	Delivered to U.S.S.R. at Destination
		In U.S.	In Canada and Alaska					
BY ROUTE								
Alaskan-Siberian Ferry Route	8,058	74	59(4)*	7,925	0	0	7,925	7,925
South Atlantic Ferry Route to Abadan	1,055	17	0	1,038	43	1	994	993
Water to North Russia	1,543	0	0	1,543	310	1	1,232	1,232
Water to Persian Gulf Assembly at Abadan	4,142	0	0	4,142	231	0	3,911	(17)** 3,868
Total	14,798^a	91	59(4)*	14,648	584	2	14,062	(17)** 14,018
BY TYPE OF PLANE								
Pursuit Planes								
P-40 Alsib	50	0	2(1)	48	0	0	48	48
P-40 North Russia, Water	1,159	0	0	1,159	248	1	910	910
P-40 North Russia, Water, U.K. Acct.	49	0	0	49	0	0	49	49
P-40 Persian Gulf, Water	872	0	0	872	54	0	818	(6)**
P-40 Persian Gulf, Water, U.K. Acct.	300	0	0	300	0	0	300	1,090
P-39 Alsib	1,022	9	14(1)*	999	0	0	999	999
P-39 Alsib, U.K. Acct.	1,637	28	17	1,592	0	0	1,592	1,592
P-39 Alsib, Reimbursement Account	30	0	3	27	0	0	27	27
P-39 North Russia, Water	57	0	0	57	7	0	50	50
P-39 North Russia, Water, U.K. Acct.	35	0	0	35	5	0	30	30
P-39 North Russia, Water, Reim. Acct.	28	0	0	28	0	0	28	28
P-39 Persian Gulf, Water	1,101	0	0	1,101	38	0	1,063	(1)**
P-39 Persian Gulf, Water, U.K. Acct.	893	0	0	893	53	0	840	(1)** 2,020
P-39 Persian Gulf, Water, Reim. Acct.	121	0	0	121	0	0	121	(1)**
P-47 Alsib	3	0	0	3	0	0	3	3
P-47 North Russia, Water	4	0	0	4	0	0	4	4
P-47 Persian Gulf, Water	196	0	0	196	7	0	189	188
P-63 North Russia, Water	3	0	0	3	0	0	3	3
P-63 Alsib, U.K. Account	85	0	0	85	0	0	85	85
P-63 Alsib	2,333	10	11(2)*	2,312	0	0	2,312	2,312
Total Pursuit Planes	9,978	47	47(4)*	9,884	412	1	9,471	(9)** 9,438
Light Bombers								
A-20 Alsib	1,396	24	9	1,363	0	0	1,363	1,363
A-20 South Atlantic	927	17	0	910	39	1	870	869
A-20 North Russia, Water	165	0	0	165	39	0	126	126
A-20 Persian Gulf, Water	637	0	0	637	79	0	558	(7)** 550
Total Light Bombers	3,125	41	9	3,075	157	1	2,917	(7)** 2,908
Medium Bombers								
B-25 Alsib	737	1	3	733	0	0	733	733
B-25 South Atlantic	128	0	0	128	4	0	124	124
B-25 North Russia, Water	5	0	0	5	0	0	5	5
Total Medium Bombers	870	1	3	866	4	0	862	862
Heavy Bombers								
B-24 Alsib	1 ^b	0	0	1	0	0	1	1
Cargo Planes								
C-46 Alsib	1	0	0	1	0	0	1	1
C-47 Alsib	709	2	0	707	0	0	707	707
Total Cargo Planes	710	2	0	708	0	0	708	708
Observation Planes								
O-52 North Russia, Water	30	0	0	30	11	0	19	19
Advanced Trainers								
AT6-C North Russia, Water	8	0	0	8	0	0	8	8
AT6-C Persian Gulf, Water	22	0	0	22	0	0	22	(1)** 20
AT6-F Alsib	54	0	0	54	0	0	54	54
Total Advanced Trainers	84	0	0	84	0	0	84	(1)** 82
PBW Navy Patrol Planes	138	1	0	137 ^c	-	-	-	-
PBY-6A Navy Patrol Planes	48	-	-	48 ^d	-	-	-	-
Total Navy Aircraft	186	1	-	185	-	-	-	-

* At Fairbanks

** Water shipments received at Abadan washed out before delivery to U.S.S.R. pilots.

^a/ Does not include 186 PBW and PBY Patrol Planes.

^b/ One heavy bomber carrying a U.S. mission became stranded in Siberia and was transferred to the Soviet government.

^c/ Departed Elizabeth City, N.C.

^d/ Fifteen departed Kodiak, Alaska, 33 departed Elizabeth City, North Carolina.

EXPORTS TO THE U.S.S.R.

June 22, 1941 to September 20, 1945

Ref. No.	Item	Lend-Lease Exports	Other Exports	Total Exports	Arrived	Lost Enroute	Diverted Enroute	Enroute on Sept. 20, 1945
I AIRCRAFT AND EQUIPMENT								
Aircraft (For U.S. Protocol Account) a/								
I-1A	Pursuit Planes	6,744	0	6,744	} See Detailed Schedule on page 18.			
1B	Light Bombers	3,075	0	3,075				
1C	Medium Bombers	866	0	866				
1D	Heavy Bombers	1	0	1				
1E	Transport Planes	708	0	708				
1F	Flying Boats, PEN	137	0	137				
	Flying Boats, PBY	48	0	48				
1G	Observation Planes	30	0	30				
1H	Advanced Trainers	84	0	84				
Aircraft (For U.K. Protocol Account) (Under Reciprocal Agreement) a/								
I-1A	Pursuit Planes	2,915	49	2,964				
Aircraft (For Reimbursement Account) a/								
I-1A	Pursuit Planes	176	0	176				
I-6A	Link Trainers	11	0	11	11	0	0	0
6B	Aircraft Landing Mats (1000 sq.ft.)	55,927 b/	0	55,927 b/	49,408	0	0	0
II MILITARY SUPPLIES								
Combat Vehicles a/								
II-1A1	Light Tanks	1,682	0	1,682	1,239	443	0	0
1A2	Medium Tanks	5,374	0	5,374	4,957	417	0	0
1B1	Self-Propelled Guns, A.T. 76 mm	5	0	5	5	0	0	0
1B2	Self-Propelled Guns, A.T. 57 mm	650	0	650	650	0	0	0
1B3	Self-Propelled Guns, A.T. 3 mm	52	0	52	52	0	0	0
1B4	Self-Propelled Guns, A.T. 37 mm	100	0	100	100	0	0	0
1B5	Self-Propelled Guns, A.A. 50 Cal.	1,000	0	1,000	1,000	0	0	0
1C	Half Tracks	1,158	0	1,158	1,104	54	0	0
1D	Armored Scout Cars	3,282	0	3,282	3,054	228	0	0
Total		13,303	0	13,303	12,161	1,142	0	0
Ordnance Service Vehicles a/								
II-2A	Field Repair Trucks	1,543	0	1,543	1,534	9	0	0
2B	Tank Recovery Units	130	0	130	130	0	0	0
2C	Tank Transporters	655	0	655	629	26	0	0
Total		2,328	0	2,328	2,293	35	0	0
Trucks a/								
II-3A1	Jeeps (1/4 Ton 4x4)	47,993	1,000	48,993	43,728	3,657	1,378	230
3A2	Jeeps, Amphibian	3,510	0	3,510	3,510	0	0	0
3B1	Trucks, 3/4 Ton	25,240	0	25,240	24,564	78	598	0
3B2	Trucks, 1-1/2 Ton	153,415	6,079	159,494	148,664	6,660	1,826	2,344
3B3	Trucks, 2-1/2 Ton	190,952	2,651	193,603	182,938	4,300	1,130	5,235
3B4	Trucks, 2-1/2 Ton, Amphibian	589	0	589	586	3	0	0
3C	Trucks, 5 Ton and Over	852	6	858	814	0	0	44
3D	Trucks, Special Purpose	2,792	0	2,792	2,784	8	0	0
3I1	Truck-Tractors with Trailers	1,941	19	1,960	1,938	6	0	16
3I2	Trailers (without Truck Tractors)	(102)	(3)	(105)	(105)	(0)	(0)	(0)
3E	Engines for Trucks	(2,000)	(0)	(2,000)	(2,000)	(0)	(0)	(0)
Total Trucks		427,284	9,755	437,039	409,526	14,712	4,932	7,869
Other Vehicles and Track-Laying Tractors a/								
II-4A1	Motorcycles	35,170	0	35,170	32,200	1,870	1,100	0
4B1&2	Track-Laying Tractors	8,071	3	8,074	7,570	253	0	251
4B3	Engines for Tractors	3,282	0	3,282	3,216	66	0	0
Artillery and Ammunition a/								
II-5A1	A.A. Guns, 90 mm	270	0	270	241	9	0	20
5A2	A.A. Guns, 40 mm	5,595	0	5,595	5,399	196	0	0
5A3	A.A. Guns, 37 mm	424	0	424	340	16	0	68
5A4	A.A. Machine Guns, 50 cal.	1,925	0	1,925	1,525	0	0	400
5A7	A.A. Guns, 4.7"	4	0	4	4	0	0	0
5B1	A.T. Guns, 27 mm	63	0	63	35	28	0	0

a/ In most instances spare parts were supplied in accordance with U.S. Army standards.

b/ Includes approximately 6,519,000 sq. ft. transferred from U.S. Army Air Force in the U.S.S.R.

Ref. No.	Item	Lend-Lease Exports	Other Exports	Total Exports	Arrived	Lost Enroute	Diverted Enroute	Enroute on Sept. 20, 1945
II MILITARY SUPPLIES (cont.)								
Artillery and Ammunition (cont.) a/								
II-5C1	Submachine Guns, .45 Cal.	131,633	4,000	135,633	112,293	23,340	0	0
5D1	Pistols and Revolvers	13,000	0	13,000	11,500	1,500	0	0
5F	Mortars	30	0	30	30	0	0	0
5G	Smoke Pots (1000 units)	1,423	0	1,423	1,423	0	0	0
5H	Ammunition, except for Naval Armament (1000 rds.)							
5J	Rocket Launchers							
		3,000	0	3,000	3,000	0	0	0
Ammunition supplied with Armament in accordance with U.S. Standards								
Explosives (tons)								
II-6A1	Smokeless Powder	140,531	0	140,531	129,667	4,909	0	5,955
6A2	Stick Powder	2,210	0	2,210	2,210	0	0	0
6A3	Other Powder	18	39	57	55	2	0	0
6A4	Cordite Powder	927	100	1,027	1,027	0	0	0
6B	TNT	136,335	0	136,335	129,138	3,848	250	3,099
6B	TNT (from U.K.)	10,048	0	10,048	10,048	0	0	0
6C	Dynamite, Including Ammonite	46,153	0	46,153	46,153	0	0	0
6D	Picric Acid	1,649	0	1,649	1,411	92	0	146
6E	Colloxylin (Nitrocellulose in Alcohol)	7,864	0	7,864	6,075	1,401	86	302
6F	Detonators, Blasting Supplies, etc. (\$1000)	**	**	**	**	**	**	**
6G	Other Explosives and Components (\$1000)	**	**	**	**	**	**	**
	Total Explosives (tons)	345,735	139	345,874	325,784	10,252	336	9,502
Wireless Communication Equipment a/								
II-7A1	Radio Stations, over 1 KW, Marine	**	**	**	**	**	**	**
7A2	Radio Stations, over 1 KW, Other	30	0	30	30	0	0	0
7B1	Radio Stations, 1 KW	**	**	**	**	**	**	**
7B2	Radio Stations, 1 KW and under, Other	35,911	930	36,841	35,779	966	32	64
7C1	Radio Receivers, Marine	**	**	**	**	**	**	**
7C2	Radio Receivers, Other	5,898	70	5,968	5,899	69	0	0
7D1	Radio Locators, Marine	52	0	52	32	20	**	0
7D2	Radio Locators, Ground	328	0	328	316	12	0	0
7D3	Radio Locators, Aircraft	**	**	**	**	**	**	**
7E	Radio Direction Finders	705	0	705	705	0	0	0
7F1	Radio Altimeters, Marine	538	0	538	538	0	0	0
7F2	Radio Altimeters, Other	0	0	0	0	0	0	0
7G1	Radio Beacons, Marine	19	0	19	19	0	0	0
7G2	Radio Beacons, Other	44	0	44	44	0	0	0
7H	Radio Tubes (1000 units)	**	**	**	**	**	**	**
7I	Radio Components, Parts and Acc. (\$1000)	4,358	30	4,388	4,352	35	0	1
7J	Radio Measuring & Testing Equip. (\$1000)	3,219	13	3,232	3,174	24	0	34
7K	Radio Compasses	800	0	800	800	0	0	0
Construction Machinery (\$1000)								
II-8A	Road & Aircraft Construction Equipment	5,716	108	5,824	5,599	135	0	90
8B	Tractor Mounted Construction Equipment	2,459	0	2,459	2,459	0	0	0
8C	Mixers and Pavers	2,100	20	2,120	2,099	9	0	12
8D	R.R. Construction Equipment	635	0	635	635	0	0	0
	Total (\$1000)	10,910	128	11,038	10,792	144	0	102
R.R. Transportation Equipment a/								
II-9A1	Steam Locomotives	1,911	0	1,911	1,900	11	0	0
9A3	Diesel-Electric Locomotives	70	0	70	66	4	0	0
9B1	Flat Cars	10,000	0	10,000	9,920	80	0	0
9B2	Dump Cars	1,000	0	1,000	1,000	0	0	0
9B3	Tank Cars	120	0	120	120	0	0	0
9B4	Heavy Machinery Cars	35	0	35	35	0	0	0
	Total (Units)	13,136	0	13,136	13,041	95	0	0
Medical Supplies (\$1000)								
II-10	Medical Supplies (Protocol Items only)	**	**	**	**	**	**	**
Other Military Items a/								
II-11A	Cableway Bridges	15	0	15	15	0	0	0
11C1	Portable Pipelines	5	0	5	5	0	0	0
11C2	Portable Storage Tanks	63	0	63	62	0	0	1
11D	Flashlights w/Dry Cells	100,000	0	100,000	100,000	0	0	0
11E	Pontoon Bridges	13	0	13	13	0	0	0

All tons are 2000 lbs. net weight

** Data not yet available.

a/ In most instances spare parts were supplied in accordance with U.S. Army standards.

Ref. No.	Item	Lend-Lease Exports	Other Exports	Total Exports	Arrived	Lost Enroute	Diverted Enroute	Enroute on Sept. 20, 1945
III NAVAL AND MARINE EQUIPMENT								
Ships except Combat								
III-1A	Dry Cargo Vessels, Transferred	90a/	0	90				
1B1	Tankers, Ocean Going	10a/	0	10				
1B2	Tankers, Wye	9	0	9				
1C	Icebreakers, Transferred	3	0	3				
1D	Tugboats	20	0	20				
1F	Steam Schooners	1	0	1				
1G	Pneumatic Floats	3,000	0	3,000	2,398	552	0	50
1I	Motor Launches	1	0	1	1	0	0	0
1J	Floating Repair Shops	2	0	2	2	0	0	0
Combat Ships b/								
III-2A	Submarine Chasers, 110'	46	0	46				
2B	Submarine Chasers, 65'	59	0	59	57	2	0	0
2C	Torpedo Boats	197	0	197	175	3	7	12
2C	Torpedo Boats (from U.K.)	24	0	24	24	0	0	0
2D	Minesweepers	77	0	77				
2E	Escort Vessels (Frigates)	28	0	28				
2G	Landing Craft, Small	52	0	52	52	0	0	0
2G2	Landing Craft, Tank	13	0	13	8	0	0	5
2G2	Landing Craft, Tank (from U.K.)	2	0	2	2	0	0	0
2J	Cargo Barges	6	0	6	6	0	0	0
Marine Propulsion Machinery b/								
III-3A	Marine Diesel Engines	3,425	0	3,425	3,320	35	0	70
3B	Marine Gasoline Engines	4,359	0	4,359	4,297	46	0	16
3C	Wooden Gas Engines	124	0	124	108	0	0	16
3D	Outboard Motors	2,150	0	2,150	2,150	0	0	0
3E	Shafting & Ship Propellers (\$1000)	296	0	296	254	0	0	42
3F	Steering Gears (\$1000)	62	0	62	50	12	0	0
3G	Storage Batteries for Submarines	40	0	40	40	0	0	0
3I	Parts & Equip. for Marine Propulsion Machinery (\$1000)	2,805	0	2,805	2,774	26	0	5
Special Ship Equipment								
III-4A	Salvage Stations & Diving Gear (\$1000)	1,057	7	1,064	1,047	3	0	14
4B	Jetting Apparatus (\$1000)	109	0	109	109	0	0	0
4D	Submarine Rescue Chambers	1	0	1	1	0	0	0
4E	Distilling Apparatus (\$1000)	36	0	36	36	0	0	0
4G	Misc. Special Ship Equip. (\$1000)	42	6	48	44	0	0	4
2D1	Trawling Equip. for Minesweepers (\$1000)	3,855	0	3,855	3,778	6	0	71
1D1	Mech. & Elec. Equip. for Tugboats (\$1000)	545	0	545	545	0	0	0
1H	Mech. & Elec. Equip. for Ferry Boats (\$1000)	1,717	0	1,717	1,717	0	0	0
Naval Artillery and Ammunition b/								
III-5A	3"/.50 cal. D.D. Guns	516	0	516	477	3	36	0
5B	5"/.38 cal. D.D. Guns	146	0	146	140	6	0	0
5C	.50 cal. Machine Guns	2,250	0	2,250	2,250	0	0	0
5F	Oerlikon Guns	2,110	0	2,110	1,849	111	150	0
5G	Spare Parts & Equip. for Naval Guns (\$1000)	2,692	0	2,692	2,692	0	0	0
5H	Ammunition for Naval Armament							
Furnished with Armament								
IV FOODSTUFFS								
(short tons, 2000 lbs. net weight)								
IV-1A	Wheat	55,713	0	55,713	55,113	600	0	0
1B	Wheat Flour	659,051	0	659,051	638,796	3,827	5,062	6,366
1C1	Other Grains	5,362	0	5,362	5,362	0	0	0
1C2	Other Flour	40,121	0	40,121	40,121	0	0	0
1C3	Other Basic Grain Mill Products	28,423	0	28,423	28,293	130	0	0
1C4	Other Finished Cereals and Products	112,550	0	112,550	109,629	1,065	528	1,328
1D	Dried Peas and Beans	270,514	0	270,514	239,429	7,905	23,138	42
1E1	Seeds, Lend-Lease	37,477	0	37,477	37,437	40	0	0
1E2	Seeds, R.W.R.	(0)	(2,307)	(2,307)	(2,307)	(0)	(0)	(0)
Sub-total		1,209,211	0	1,209,211	1,154,180	18,567	28,728	7,736
IV-2A	Sugar, U.S. Stocks	532,345	0	532,345	502,195	18,285	12,364	1
2B	Sugar, Other Sources	170,234	0	170,234	170,234	0	0	0
Sub-total		703,079	0	703,079	672,429	18,285	12,364	1

a/ Represents the number of vessels transferred to the Soviet flag less the number returned to the U.S. Twelve dry cargo vessels and ten tankers were returned to the U.S. under exchange agreements. Disposition of those vessels under Soviet flag as of September 20, 1945 has not yet been determined.

b/ In most instances spare parts and auxiliary equipment were supplied in accordance with U.S. standards.

Ref. No.	Item	Lend-Lease Exports	Other Exports	Total Exports	Arrived	Lost Enroute	Diverted Enroute	Enroute on Sept. 20, 1945
IV FOODSTUFFS (cont) (short tons, 2000 lbs. net weight)								
IV-3A	Canned Dehydrated Meat	14,942	0	14,942	14,942	0	0	0
3B	Canned Tushonka	272,009	0	272,009	265,569	2,904	0	3,536
3C1	Other Canned Meat	485,181	0	485,181	452,084	17,497	15,422	178
3C2	Canned Meat purchased from U.K. on U.S. account	50,378	0	50,378	50,378	0	0	0
	Sub-total	822,510	0	822,510	782,973	20,401	15,422	3,714
IV-4B1	Fatcuts	299,758	472	300,230	292,742	3,328	4,142	18
4B2	Smoked Meats	19,076	0	19,076	18,041	499	302	234
4B2	Sausage and Meat Preparations	507	0	507	507	0	0	0
4C1	Butter	69,772	0	69,772	67,876	1,010	735	151
4C2	Butter Oil	11,026	0	11,026	11,026	0	0	0
4C3	Carter's Spread	24,507	0	24,507	24,363	144	0	0
4A	Lard	316,824	1,084	317,908	293,210	7,833	16,846	19
4D	Other Animal Fats and Oils	24,304	9	24,313	23,137	637	539	0
	Sub-total	765,774	1,565	767,339	730,902	13,451	22,564	422
IV-5A1	Vegetable Oil in Bulk	419,664	0	419,664	418,992	672	0	0
5A2	Vegetable Oil in Drums	16,271	390	16,661	16,623	38	0	0
5B	Shortening	33,062	0	33,062	30,636	286	2,140	0
5C	Oleomargarine	51,697	0	51,697	51,160	537	0	0
5D	Essential and Floral Oils	106	5	111	111	0	0	0
	Sub-total	520,800	395	521,195	517,522	1,533	2,140	0
IV-6A	Canned Milk	31,021	0	31,021	30,727	282	0	12
6B	Dried Milk	77,352	0	77,352	71,410	1,145	4,394	403
6C	Dried Eggs	121,144	0	121,144	110,651	4,949	5,296	248
6D	Cheese	35,021	0	35,021	34,702	295	0	24
6E1	Soya Flour	51,873	0	51,873	47,302	4,541	0	30
6E2	Soya Grits	19,202	0	19,202	19,202	0	0	0
6F	Fruits & Veg. Pastes & Purees	10,024	0	10,024	10,023	0	0	1
6G	Concentrated Juices	1,799	0	1,799	1,799	0	0	0
6H	Dried Fruits	2,340	0	2,340	2,340	0	0	0
6I	Dried & Dehydrated Vegetables	15,687	0	15,687	15,396	0	0	291
6J	Dried Soups	9,485	26	9,511	9,373	105	0	33
6K	Concentrated Cereals	9,738	0	9,738	9,496	95	0	147
	Sub-total	384,686	26	384,712	362,421	11,412	9,690	1,189
IV-7A	Soap	9,212	0	9,212	9,102	110	0	0
7B	Soap Stock	322	0	322	0	0	322	0
	Sub-total	9,534	0	9,534	9,102	110	322	0
IV-8A	Canned Fruits	369	0	369	369	0	0	0
8B	Canned Vegetables	1,938	0	1,938	1,930	0	0	8
8C	Fresh Fruit	183	16	199	199	0	0	0
8D	Fresh Vegetables	2,505	0	2,505	2,505	0	0	0
8E	Vitamins	1,432	0	1,432	1,344	9	36	43
8F	Yeast	1,155	0	1,155	1,043	0	112	0
8G	Tea	1,217	0	1,217	1,176	0	0	41
8H	Coffee	10,581	329	10,910	10,350	0	560	0
8I	Salt	2,181	0	2,181	2,181	0	0	0
8J	Spices	655	1,707	2,362	2,357	0	0	5
8K	Flavoring Extracts	171	11	182	180	2	0	0
8L1	Hazel Nuts from Turkey	3,638	0	3,638	3,638	0	0	0
8L2	Other Nuts	58	0	58	58	0	0	0
8M	Other Foodstuffs	2,799	3,005	5,804	5,726	1	0	77
8N	Feed	33,631	0	33,631	28,417	5,214	0	0
8O	Other Misc. Agric. Products	9	1	10	10	0	0	0
	Sub-total	62,522	5,069	67,591	61,483	5,226	708	174
	Total Foodstuffs	4,478,116	7,055	4,485,171	4,291,012	88,985	91,938	13,236
V MACHINERY AND EQUIPMENT (\$1000)								
V-1	Engines and Turbines, General Purpose	9,088	669	9,757	8,834	882	0	41
2A	Compressors, Marine	890	0	890	690	0	0	200
2B	Compressors, Other	14,453	1,466	15,919	15,336	340	0	243
3A	Pumps, Marine	2,621	0	2,621	2,523	0	0	98
3B	Pumps, Other	11,236	1,053	12,289	11,904	193	0	192
V-4	Crushing, Screening & Mixing Machinery	8,009	241	8,250	8,048	109	0	93
5	Conveyors and Conveying Systems	1,654	0	1,654	1,651	0	0	3
6A	Winches, Marine	479	0	479	460	0	0	19
6B	Cranes, Derricks, Hoists, Other	32,986	742	33,728	33,272	312	0	144
7	Industrial Trucks and Tractors	7,344	196	7,540	7,213	108	0	219

Ref. No.	Item	Lend-Lease Exports	Other Exports	Total Exports	Arrived	Lost Enroute	Diverted Enroute	Enroute on Sept. 20, 1945
V MACHINERY AND EQUIPMENT (cont. in \$1000)								
V-8A	Fan and Blower Equipment, Marine	586	0	586	586	0	0	0
8B	Fan and Blower Equipment, Other	3,110	6	3,116	3,116	0	0	0
9	Mech. Power Transmission Equipment	141	6	147	111	0	0	36
10	Bearings	25,839	223	26,062	25,813	233	0	16
11	Valves and Steam Specialties	7,805	1,075	8,880	8,521	58	0	301
V-12	Misc. General Purpose Ind. Machinery	4,470	42	4,512	4,508	4	0	0
13A1	Electric Rotating Equip., Marine	1,856	11	1,867	1,867	0	0	0
13A2	Electric Rotating Equip., Other	17,433	795	18,228	17,700	364	3	161
13B1	Generator Sets, Military	27,462	0	27,462	26,803	623	0	36
13B2	Generator Sets, Marine	12,981	85	13,066	12,852	35	0	179
13B3	Generator Sets, Other	135,361	11	135,372	134,090	465	0	817
V-14	Primary Elec. Power Trans. Equip.	7,260	28	7,288	7,107	43	0	138
15	Power Conversion Equip.	7,189	4	7,193	6,923	270	0	0
16A	Secondary Distribution Equip., Marine	70	0	70	70	0	0	0
16B	Secondary Distribution Equip., Other	1,174	159	1,333	1,323	7	0	1
17	Motor Starters and Controllers	1,235	151	1,386	1,260	17	23	86
V-18	Electric Lamps	102	2	104	101	-	0	3
19	Misc. Electrical Equipment	3,758	38	3,796	3,722	36	0	38
20	Food Products Machinery	713	26	739	735	4	0	0
21	Textile Industries Machinery	617	469	1,086	977	109	0	0
22	Pulp and Paper Ind. Machinery	367	0	367	367	0	0	0
V-23	Printing Trades Machinery & Equipment	28	27	55	52	0	0	3
24A	Tire Plant	8,207	470	8,677	8,675	0	0	2
24B	Rubber Working Machinery	115	0	115	115	0	0	0
25	Woodworking Machinery	1,266	13	1,279	1,233	12	0	34
26	Metal Melting & Heating Furnaces	21,930	2,013	23,943	23,208	638	0	97
V-27	Blast & Reverberating Furnaces	5,186	0	5,186	5,186	0	0	0
28	Foundry Equipment	2,033	114	2,147	2,132	15	0	0
29	Spec. Ind. Furnaces, Kilns, Ovens	3,259	9	3,268	3,268	0	0	0
30A	Petroleum Refinery Plants	42,104*	816	42,920*	42,610*	263	0	47
30B	Petroleum Refinery Machinery & Equip.	528	0	528	528	0	0	0
V-31	Spec. Machinery for Glass Industry	671	0	671	671	0	0	0
32	Spec. Machinery for Chemical Mfg.	1,460	-	1,460	1,460	0	0	0
33	Gas Generating, Cond. & Prod. App.	13,509	168	13,677	13,677	0	0	0
34A	Misc. Spec. Ind. Machinery	6,481	91	6,572	6,550	5	0	17
34B	Cartridge Manufacturing Lines	30,217	0	30,217	29,855	110	0	252
V-35	Machine Tools	305,899	17,996	323,895	310,058	8,607	0	5,230
36	Rolling Mills & Aux. Equip.	25,207	154	25,361	25,356	0	1	4
37	Drawing Machines	2,262	150	2,412	2,412	0	0	0
38	Other Primary Metal Forming Machinery	304	-	304	304	0	0	0
39	Secondary Metal Forming Machinery	59,215	9,523	68,738	66,567	995	27	1,149
V-40A	Welding Machinery, Marine }	8,863	321	9,184	9,049	104	0	31
40B	Welding Machinery, Other }							
41	Testing and Measuring Machinery	2,739	133	2,872	2,830	25	0	17
42	Misc. Metalworking Equip.	93	22	115	107	8	0	0
43A	Port. Metalworking Machines, Marine }	3,216	108	3,324	3,213	4	0	107
43B	Port. Metalworking Machines, Other }							
V-44A	Cemented Carbide Cutting Tools	5,914	1	5,915	5,904	11	0	0
44B	Metal Cutting Tools	34,736	200	34,936	34,878	55	0	3
45	Cutting and Forming Tools	75	0	75	75	0	0	0
46	Attach. & Access. for Machine Tools	3,946	60	4,006	3,945	47	0	14
47	Tool Room Specialties	238	2	240	240	0	0	0
V-48	Agr. Machinery except Tractors	709	42	751	751	0	0	0
49	Mining & Quarrying Machinery	1,698	65	1,763	1,763	0	0	0
50	Earth & Rock Boring & Drilling Machinery	9,074	87	9,161	8,983	159	0	19
51	Well & Blast Hole Drilling Machinery	6,350	2,720	9,070	9,023	25	0	22
52	Excavating & Dredging Machinery	33,443	798	34,241	31,050	2,036	1,005	150
V-53	Misc. Construction Equipment	797	0	797	797	0	0	0
54	Office Machines	32	26	58	58	0	0	0
55	Misc. Machinery	1,086	111	1,197	1,195	2	0	0
58B	Teletype Apparatus	4,470	6	4,476	4,470	6	0	0
58C1	Field Telephones	19,272	280	19,552	16,968	1,850	26	708
58C1	Field Telephones (units)	(415,426)	(7,000)	(422,426)	(380,135)	(39,328)	0	(2,963)

* Estimated

Ref. No.	Item	Lend-Lease Exports	Other Exports	Total Exports	Arrived	Lost Enroute	Diverted Enroute	Enroute on Sept. 20, 1945
V MACHINERY AND EQUIPMENT (\$1000) (cont.)								
V-58C2	Other Telephone & Telegraph Equip.	14,324	248	14,572	14,419	59	0	94
58D	Sound Equipment	347	206	553	543	-	0	10
58E	Automatic Clock & Signal System	10,880*	0	10,880*	10,830*	0	0	0
59A	Ind. Type Locomotive, Cars & Pts.	902	779	1,681	1,655	26	0	0
59B	Mine Type Locomotives, Rail Cars & Pts.	281	886	1,167	1,133	0	0	34
V-60	Passenger Vehicles & Parts	439	194	633	582	3	0	48
61	Airconditioning & Refrigerator Equipment	587	7	594	593	0	0	1
62A	Lighting Fixtures, Marine	1,064	1	1,065	1,045	15	0	5
62B	Lighting Fixtures, Other	385	70	455	421	33	0	1
63	Photographic Equipment	1,481	231	1,712	1,244	75	0	393
V-64A	Optical, Indicating, Recording & Control Instruments	6,415	549	6,964	6,902	52	0	10
64B	Navigation Instruments	772	44	816	727	0	0	89
65	Professional & Scientific Instruments	1,316	327	1,643	1,596	38	0	9
66	Miscellaneous Equipment	328	102	430	396	34	0	-
67	Hand Tools, Non-Powered	2,007	823	2,830	2,810	20	0	-
V-68	Mechanic's Measuring Tools	3,625	48	3,673	3,672	1	0	0
69A	Power Boilers, Marine	88	17	105	90	0	0	15
69B	Power Boilers, Industrial	16,096	0	16,096	15,880	216	0	0
70	Agric. Tractors except Track-laying	2,707	123	2,830	2,773	0	0	57
71	Other Miscellaneous Equipment	0	78	78	78	0	0	-
Grand Total		1,078,965	48,757	1,127,722	1,095,140	19,761	1,085	11,736
VI MATERIALS AND PRODUCTS								
Steel (Short Tons - Net Weight)								
VI-1-10	Bimetal	44,544	0	44,544	43,168	1,093	0	283
14	Armor Plate	8,950	0	8,950	5,786	2,897	267	0
16A	Polished Drill Rods, plain carbon	404	0	404	386	2	0	16
16B	Polished Drill Rods, H.S. Alloy	296	0	296	269	0	0	27
16C	Polished Drill Rods, plain alloy	237	0	237	237	0	0	0
17	High Speed Tool Steel	15,065	0	15,065	14,203	554	0	308
18	Tool Steel	43,396	213	43,609	40,766	1,640	48	1,155
19	Cold Finished Bars	171,555	0	171,555	160,248	7,407	671	3,229
20	H.R. Aircraft Steel	237,580	0	237,580	233,170	3,401	0	1,009
21	Cr. Si. Mn. Billets	123,922	0	123,922	110,255	9,823	509	3,335
22	Cold Rolled Sheets	100,681	0	100,681	68,582	29,679	1,709	711
22A	Cold Rolled Strip	85,940	8	85,948	71,686	12,077	798	1,387
23	Stainless Steel	13,156	0	13,156	12,822	98	0	236
24	Tinplate	169,616	337	169,953	153,971	11,696	2,871	1,415
25	Steel Wire	123,975	0	123,975	115,555	6,289	673	1,458
26	Wire Rope	37,910	24	37,934	36,506	903	0	525
27	Steel Alloy Tubes	58,247	0	58,247	56,845	168	53	1,181
28	Stainless Steel Wire	5,033	0	5,033	4,857	119	13	44
29	Special Alloy Wire	3,954	0	3,954	3,827	127	0	0
31	Barbed Wire Staples	51,362	4,477	55,839	44,652	10,758	203	226
32	Pipe and Tubing	244,096	0	244,096	222,107	17,320	1,654	3,015
33	H.R. Sheets and Plates	393,052	0	393,052	365,612	19,693	2,357	5,390
34	Wire Nails & Tacks	16,924	1	16,925	16,686	118	0	121
101	R.R. Rails and Accessories	721,047	0	721,047	685,740	25,835	1,421	8,051
102	Mounted Sets, Wheels & Axles	24,092	456	24,548	23,547	90	0	911
103	Car Axles	36,231	0	36,231	30,814	1,367	0	4,050
104	Locomotive Car Wheel Tires	46,769	0	46,769	45,595	53	0	1,121
105	Rolled Steel Car Wheels	22,020	0	22,020	21,410	98	0	512
107	Locomotive Axles	252	0	252	252	0	0	0
108	Electric Locomotive Axles	222	0	222	222	0	0	0
Total Steel		2,800,528	5,516	2,806,044	2,589,776	163,305	13,247	39,716

* Estimated

Ref. No.	Item	Lend-Lease Exports	Other Exports	Total Exports	Arrived	Lost Enroute	Diverted Enroute	Enroute on Sept. 20, 1945
VI MATERIALS AND PRODUCTS (cont.)								
Ferro-Alloys (Net Weight - Short Tons)								
VI-2A	Ferro-Silicon	8,028	224	8,252	7,174	1,050	0	28
2B	Ferro-Chromium	4,197	0	4,197	3,703	494	0	0
2C	Ferro-Phosphorus	10	0	10	10	0	0	0
2D	Ferro-Vanadium	558	0	558	558	0	0	0
2E	Ferro-Tungsten	1,593	0	1,593	1,593	0	0	0
2F	Ferro-Molybdenum	2,906	0	2,906	2,906	0	0	0
2G	Manganese Metal	11	0	11	11	0	0	0
2H	Other Ferro-Alloys	103	0	103	103	0	0	0
Total Ferro-Alloys		17,406	224	17,630	16,058	1,544	0	28
Non-Ferrous Metals (Net Weight - Short Tons)								
VI-3A1	Copper, Electrolytic	17,944	0	17,944	17,944	0	0	0
3A2	Copper, Tubes, Etc.	35,751	0	35,751	34,168	1,193	36	354
3A3	Copper, Base Alloys	356,523	1,971	358,494	339,599	17,510	0	1,385
3A4	Bare Copper Cable & Wire	23,140	1,515	24,655	24,228	148	0	279
3B1	Aluminum Ingots & Wire Bars	193,163	1,367	194,530	189,237	5,293	0	0
3B2	Fabricated Aluminum	68,320	6,349	74,669	71,872	2,393	0	404
3B3	Aluminum Foil	202	0	202	202	0	0	0
3C	Magnesium	9,060	0	9,060	9,060	0	0	0
3D1	Pig Nickel	14,671	0	14,671	13,843	828	0	0
3D2	Monel Scrap	413	0	413	413	0	0	0
3D3	Nichrome Wire and Strip	1,579	108	1,687	1,549	115	0	23
3D4	Other Nichrome Basic Shapes	920	0	920	896	0	0	24
3D5	Nickel Foil	5	0	5	5	0	0	0
3D6	Other Pure Nickel Shapes	273	0	273	261	12	0	0
3E1	Tin	13	0	13	13	0	0	0
3E2	Tin Foil	53	0	53	49	4	0	0
3E3	Babbitt	292	0	292	272	20	0	0
3F	Zinc	57,148	1	57,149	54,826	2,323	0	0
3G	Lead	20,145	0	20,145	20,139	0	0	6
3H1	Cadmium	493	0	493	493	0	0	0
3H2	Cerium	18	0	18	18	0	0	0
3H3	Cobalt	345	17	362	362	0	0	0
3H4	Mercury	895	0	895	895	0	0	0
3H5	Sodium	1,494	0	1,494	1,218	258	0	18
3H9	Misc. Non-Ferrous Metals	11	90	101	101	0	0	0
Total Non-Ferrous Metals		802,871	11,418	814,289	781,663	30,097	36	2,493
Other Metals and Products (Net Weight-Short Tons)								
VI-4A	Molybdenum Concentrates (tons)	15,850	2,529	18,379	16,949	1,430	0	0
4B	Misc. Metallic Ores, Tailings and Concentrates (tons)	0	3	3	3	0	0	0
5	Pig Iron (tons)	8,210	0	8,210	8,210	0	0	0
6A1	Marine Cable (miles)	2,339	0	2,339	2,118	129	0	92
6A2	Submarine Cable (miles)	1,186	0	1,186	1,136	50	0	0
6A3	Field Telephone Wire (miles)	1,105,024	0	1,105,024	956,688	134,684	197	13,455
6A4	Other Insulated Wire and Cable (\$1000)	60,661	49	60,710	58,913	924	0	873
6A5	Copper Magnet Wire (\$1000)	216	0	216	184	0	0	32
6B1	Wire Cloth & Screen (\$1000)	2,212	12	2,224	2,217	7	0	0
6B2	Wire Netting and Fencing (tons)	1,469	0	1,469	1,469	0	0	0
6C	Fabr. Structural Iron & Steel (tons)	5,788	0	5,788	5,431	0	0	357
6D	Chains and Attachments (tons)	6,503	331	6,834	6,601	0	0	233
6E	Bolts, Nuts, Screws, Washers, Rivets, etc. (tons)	8,963	0	8,963	8,565	0	0	398
6F	Other Fabr. Metal Basic Prod. (\$1000)	274	2	276	254	22	0	0
6G	Special Fine Wires, Strip, etc. (tons)	720	0	720	711	4	0	5
6H	Sucker Rods (tons)	3,324	0	3,324	2,372	0	0	952
6I	Pipe Fittings (tons)	277	85	362	338	0	0	24
6J	Welding Electrodes (tons)	4,030	0	4,030	4,030	0	0	0
7A	Anchors (tons)	1,423	4	1,427	1,381	0	0	46
7B	Other Metal End Products (\$1000)	1,517	3	1,520	1,465	42	0	13
8	Coal, Crude Petroleum, etc. (tons)	7	0	7	7	0	0	0

Ref. No.	Item	Lend-Lease Exports	Other Exports	Total Exports	Arrived	Lost Enroute	Diverted Enroute	Enroute on Sept. 20, 1945
VI MATERIALS AND PRODUCTS (cont.)								
Petroleum Products and Additives (Short Tons - Net Weight)								
VI-9A	Aviation Gas over 99 Octane	602,949	25,185	628,134	590,484	0	37,650	0
9B	Aviation Gas over 87 thru 99	18,220	130,729	148,949	122,415	2,069	24,465	0
9C	Aviation Gas 87 Octane and under	19,269	421	19,690	19,690	0	0	0
9D	Automotive Gas	207,222	71,548	278,770	267,088	0	11,682	0
9E	Gas Blending Agents	729,225	33,353	762,578	732,295	17,236	12,373	674
9F	Kerosene	16,864	6	16,870	16,870	0	0	0
9G	Fuel Oil	269,639	19,022	288,661	287,262	0	0	1,399
9H	Lubricating Oil and Grease	104,841	10,078	114,919	111,676	1,678	0	1,565
9I	Petroleum Waxes	6,301	121	6,422	5,769	204	199	250
9J	Chemical Additives	5,453	-	5,453	4,788	0	81	584
9K	Other Petroleum Products	558	441	999	999	-	0	0
	Sub-total	1,980,541	290,904	2,271,445	2,159,336	21,187	86,450	4,472
From U.K. for U.S. Account (Replacement to U.K. from U.S.)								
	Aviation Gas over 99 Octane	53,285		53,285	53,285	0	0	0
	Aviation Gas 87 thru 99 Octane	14,719		14,719	14,719	0	0	0
From Abadan for U.S. Account (Replacement to British from U.S.)								
	Aviation Gas over 99 Octane	519,694		519,694	519,694	0	0	0
	Gas Blending Agents	102,132		102,132	102,132	0	0	0
	Total	2,670,371	290,904	2,961,275	2,849,166	21,187	86,450	4,472
Chemicals								
Basic Inorganic (short tons - net wt.)								
VI-10A1	Ammonium Chloride	726	0	726	726	0	0	0
10A2	Ammonium Nitrate	3,394	0	3,394	2,602	113	0	679
10A3	Ammonium Sulphocyanide	3	0	3	3	0	0	0
10A4	Barium Peroxide	100	34	134	134	0	0	0
10A5	Boric Acid	1,243	0	1,243	1,076	167	0	0
10A6	Calcium Carbide	853	0	853	853	0	0	0
10A7	Calcium Chloride	1,177	-	1,177	1,177	0	0	0
10A8	Caustic Soda	99,052	23	99,075	98,210	707	0	158
10A9	Phosphorous	2,085	489	2,574	2,089	485	0	0
10A10	Potassium Carbonate	784	0	784	784	0	0	0
10A11	Potassium Chlorate	996	0	996	956	0	0	40
10A12	Potassium Dichromate	1,409	0	1,409	1,409	0	0	0
10A13	Potassium Nitrate	2,190	0	2,190	2,052	0	0	138
10A14	Potassium Sulphate	580	0	580	535	0	45	0
10A15	Potassium Tetroxide	772	0	772	761	11	0	0
10A16	Soda Ash	2,199	11	2,210	2,210	0	0	0
10A17	Sodium Cyanide	929	0	929	929	0	0	0
10A18	Sodium Bromide	1,715	97	1,812	1,420	334	43	15
10A19	Thorium Nitrate	9	3	12	6	6	0	0
10A20	Sodium Dichromate	1,564	0	1,564	1,509	55	0	0
10A99	Misc. Organic Chemicals	2,503	36	2,539	2,465	17	0	57
Basic Organic (short tons - net weight)								
VI-10B1	Acetone	12,977	0	12,977	12,264	654		59
10B2	Aniline Oil	3,522	-	3,522	2,467	927	16	112
10B3	Anthracene	9	0	9	9	0	0	0
10B4	Butyl Acetate	5,603	0	5,603	5,264	215	0	124
10B5	Butyl Alcohol	8,917	0	8,917	8,567	103	0	247
10B6	Camphor	1,627	0	1,627	1,523	34	0	70
10B7	Casein	3,919	0	3,919	3,919	0	0	0
10B8	Citric Acid	1,100	0	1,100	1,044	56	0	0
10B9	Cresols	422	0	422	361	61	0	0
10B10	Dibutyl Phthalate	6,331	0	6,331	5,383	859	70	19
10B11	Diethylene Glycol	2,446	0	2,446	2,446	0	0	0
10B12	Dimethyl Aniline	2,302	0	2,302	1,797	420	0	85

Ref. No.	Item	Lend-Lease Exports	Other Exports	Total Exports	Arrived	Lost Enroute	Diverted Enroute	Enroute on Sept. 20, 1945
<u>VI MATERIALS AND PRODUCTS (cont.)</u>								
<u>Chemicals (cont.)</u>								
<u>Basic Organic (cont.) (short tons-net wt.)</u>								
VI-10B13	Diphenylamine	1,514	0	1,514	1,258	256	0	0
10B14	Diphenylguanidine	444	0	444	444	0	0	0
10B15	Ethyl Acetate	6,296	0	6,296	6,261	0	0	35
10B16	Ethyl Alcohol from U.S.	368,261	-	368,261	359,554	159	0	8,548
	Ethyl Alcohol from U.K. for U.S. account, replacement to U.K. from U.S.	20,188	0	20,188	20,188	0	0	0
10B17	Ethylene Chlorohydrine	232	0	232	232	0	0	0
10B18	Ethylene Dibromide	2,042	0	2,042	2,042	0	0	0
10B19	Ethylene Glycol	14,227	120	14,347	13,800	189	0	358
10B20	Formaldehyde	494	0	494	432	62	0	0
10B21	Furfural	1,131	0	1,131	1,130	0	0	1
10B22	Glycerine from U.S.	16,367	0	16,367	16,066	301	0	0
	Glycerine from Lend-Lease retransferred from U.K.	5,478	0	5,478	5,478	0	0	0
10B23	Hexamine (Urotropine)	14,964	0	14,964	14,381	357	195	31
10B24	Methanol	28,070	0	28,070	23,774	3,242	371	683
10B25	Napthenic Acid	601	0	601	601	0	0	0
10B26	Phenol from U.S.	38,458	448	38,906	36,554	1,732	171	449
	Phenol from U.K. for U.S. Account Replacement to U.K. from U.S.	1,995	0	1,995	1,995	0	0	0
10B27	Potassium Butyl Xanthogenate	2,473	0	2,473	2,417	56	0	0
10B28	Resorcin	111	0	111	101	0	0	10
10B29	Rhodamine	6	0	6	6	0	0	0
10B30	Saccharin	708	10	718	701	17	0	0
10B31	Strontium Oxalate	88	0	88	84	4	0	0
10B32	Toluol	116,619	2,627	119,246	113,884	3,192	350	1,811
10B33	Trichlorethylene	252	0	252	252	0	0	0
10B34	Paraphentidine & Paranitrochlorobenzol	591	0	591	591	0	0	0
10B99	Miscellaneous Organic Chemicals	4,655	16	4,671	4,626	25	0	20
<u>Gases, Compressed and Liquified (\$1000)</u>								
VI-10C	Gases	(77)	(1)	(78)	(67)	0	0	(11)
<u>Paints, Pigments, etc. (Short tons - net weight)</u>								
VI-10D1	Paints, Varnishes, Lacquers, etc.	1,605	96	1,701	1,625	0	0	76
10D2	Carbon and Lamp Black	2,538	4,328	6,866	6,866	0	0	0
10D3	Other Pigments	3,045	70	3,115	3,061	52	0	2
10D9	Dryers, etc.	-	-	-	-	0	0	0
<u>Plastics (short tons - net weight)</u>								
VI-10G1	Phenol Formaldehyde Resins	1,216	2	1,218	1,139	79	0	0
10G2	Vulcanized, Fiber	5,135	1	5,136	4,463	496	3	174
10G3	Cellulose Film Base	623	0	623	593	0	0	30
10G9	Other Plastics	1,340	4	1,344	1,344	0	0	0
<u>Misc. Chemicals Including Industrial (short tons - net weight)</u>								
VI-10H1	Ammonia Rubber Paste	983	0	983	962	0	0	21
10H2	Ethyl Centralite	1,925	0	1,925	1,925	0	0	0
10H3	Boiler Compounds	1,589	0	1,589	1,589	0	0	0
10H4	Misc. Floatation Reagents	858	0	858	835	23	0	0
10H5	Twitchell Reagents	800	0	800	800	0	0	0
10H6	Photo Gelatin	356	-	356	356	0	0	0
10H99	Other Chemicals	744	362	1,106	1,062	44	0	0
Total Chemicals		842,480	8,777	851,257	820,422	15,510	1,273	14,052

Ref. No.	Item	Lend-Lease Exports	Other Exports	Total Exports	Arrived	Lost Enroute	Diverted Enroute	Enroute on Sept. 20, 1945
VI MATERIALS AND PRODUCTS (cont.)								
Textiles								
VI-11A	Cotton Cloth (1000 yds.)	106,893	2	106,895	102,673	2,662	0	1,560
11B	Woolen Cloth (1000 yds.)	62,485	263	62,748	60,138	1,258	0	1,352
11C	Webbing (1000 yds.)	55,843	2,414	58,257	53,803	2,427	0	2,027
11D	Tarpaulin (1000 yds.)	13,432	235	13,667	13,528	74	0	65
11E	Other Cloth (1000 yds.)	0	0	0	0	0	0	0
11F	Cordage & Twine (tons)	14,805	777	15,582	15,356	90	0	136
11G	Other Basic Textiles (\$1000)	4,325	0	4,325	4,322	0	0	3
12A	Fish Nets (tons)	1,408	0	1,408	1,395	0	0	13
12B	Other Textile Products (\$1000)	10,819	7	10,826	10,561	238	0	27
Leather								
VI-13	Leather (tons)	49,861	1,954	51,815	46,161	4,861	469	324
14	Leather Products (\$1000)	359	3	362	362	0	0	0
Rubber								
VI-15	Crude Rubber (tons)	269	0	269	269	0	0	0
16A	Vistanex (tons)	998	14	1,012	984	28	0	0
16B	Other Synthetic Rubber (tons)	10,221	3	10,224	9,825	0	0	399
17A	Shock Absorber Cord (1000 yds.)	171	0	171	166	5	0	0
17B	Other Rubber Material (\$1000)	5,571	17	5,588	5,490	81	0	17
18A	Tires (1000 units)	3,775	11	3,786	3,606	110	61	9
18A	Tubes (1000 units)	3,813	11	3,824	3,640	111	63	10
18A	Tires (From U.K. for U.S. Account) (1000 units)	75	0	75	75	0	0	0
18A	Tubes (From U.K. for U.S. Account) (1000 units)	36	0	36	36	0	0	0
18B	Rubber Hose (\$1000)	7,888	51	7,939	7,784	155	0	0
18C	Other Rubber Products (\$1000) (Except apparel)	21,114	4	21,118	20,843	174	0	101
Footwear								
VI-19A	Army Boots (1000 prs.)	14,704	713	15,417	14,572	578	6	261
19B	Ski Boots (1000 prs.)	225	0	225	221	0	0	4
19C	Rubber Boots and Shoes (\$1000)	111	19	130	130	0	0	0
19D	Other Boots and Shoes (\$1000)	4,069	193	4,262	4,248	14	0	0
Apparel Except Footwear								
VI-20A	Leather Jackets (1000 units)	**	**	**	**	**	**	0
20B	Leather Belts (1000 units)	2,770	-	2,770	2,577	193	0	0
20C	Misc. Leather Apparel (\$1000)	**	**	**	**	**	**	0
20D	Rubber Apparel (\$1000)	**	**	**	**	**	**	0
20E	Other Apparel (\$1000)	13,803	14	13,817	12,841	80	0	896
Abrasives								
VI-21A	Abrasive Grain (tons)	18,002	0	18,002	17,711	91	0	200
21B	Abrasive Products (\$1000)	16,242	662	16,904	15,497	1,030	33	344
Carbon and Graphite								
VI-22A	Graphite Powder (tons)	2,566	672	3,238	3,017	221	0	0
22B	Graphite and Carbon Electrodes (\$1000)	22,517	158	22,675	20,933	1,496	25	221
22C	Other Graphite Material (\$1000)	1,434	232	1,666	1,532	100	0	34
Paper and Products								
VI-23A	Parchment Paper (tons)	4,208	13	4,221	4,201	0	0	20
23B	Map Paper (tons)	9,277	3	9,280	8,835	265	0	180
23C	Cigarette Paper (tons)	1,055	0	1,055	987	68	0	0
23D	Condenser Paper (tons)	403	0	403	403	0	0	0
23E	Other Pulp Paper, etc. (tons)	1,096	6	1,102	1,089	0	0	13
24	Paper Products (\$1000)	58	-	58	58	-	0	0
Photographic Material								
VI-25A1	Photographic Film Paper (\$1000)	1,684	19	1,703	1,631	59	0	13
25A2	Reproduction Paper Stock (\$1000)	236	0	236	236	0	0	0
25B	Finished Pictures (\$1000)	6	0	6	6	0	0	0
25C	Misc. Photographic Material (\$1000)	3	0	3	3	0	0	0
Asbestos								
VI-26A	Asbestos (tons)	0	0	0	0	0	0	0
26B	Asbestos Material (\$1000)	478	13	491	483	4	0	4
Other								
VI-27	Buttons (\$1000)	1,647	0	1,647	1,598	49	0	0
97	Other Crude Material (\$1000)	18	0	18	18	0	0	0
98	Other Basic Material (\$1000)	123	1	124	118	0	0	6
99	Other End Products (\$1000)	773	26	799	722	56	0	21

In addition to the supplies shown in the above tables the U.S. Army has transferred to the U.S.S.R. the following:

From U.S. Army equipment in the Persian Corridor

2 Truck Assembly Plants
792 Ten-Ton Mack Cargo Trucks
21 Cranes of various types
1,751 Short Tons of 75# R.R. Rails plus Accessories

From U.S. Army Air Force shuttle bases in the U.S.S.R.

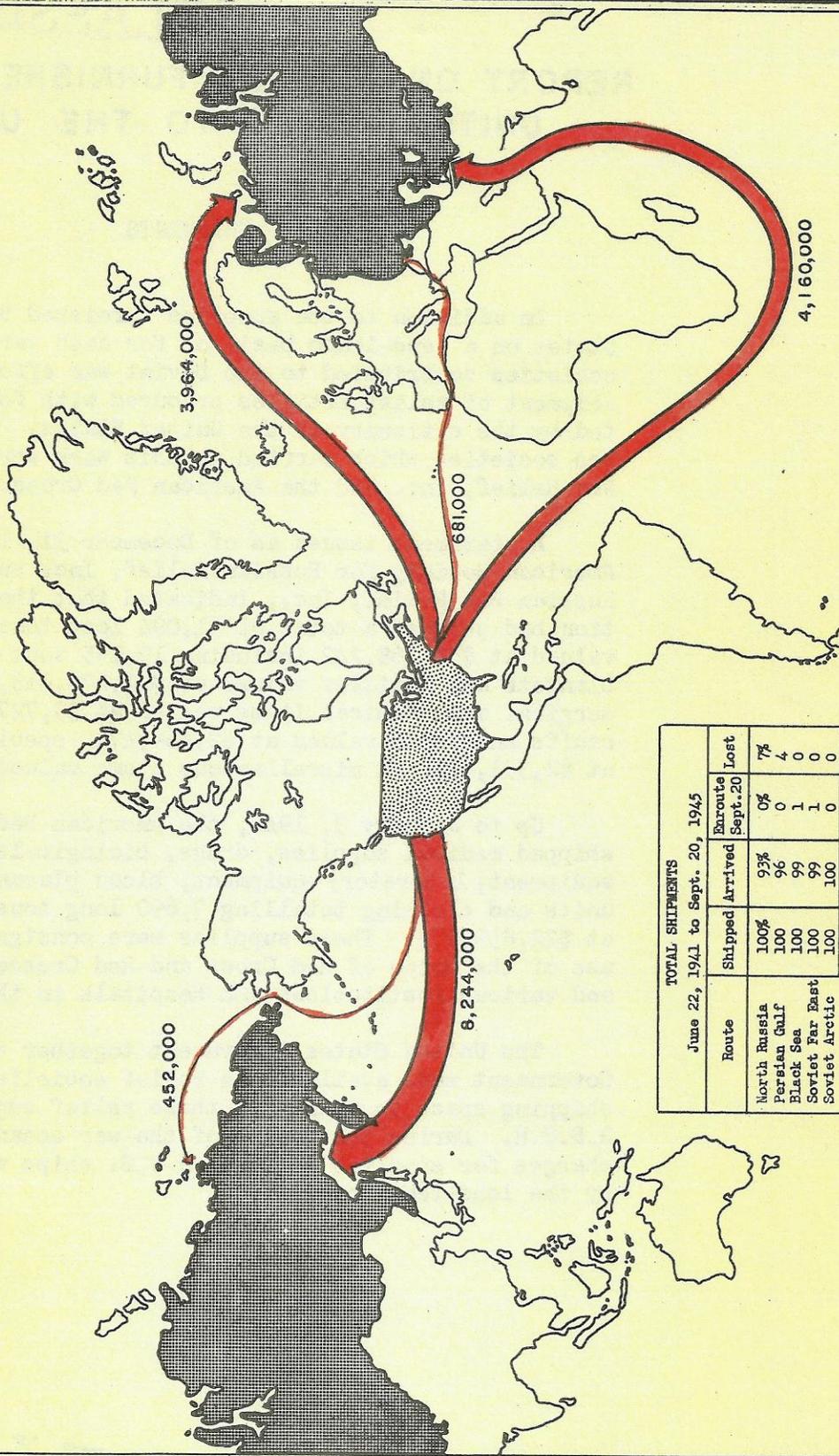
Materials and Services (Complete Enumeration and Valuation is not yet available)

Fifty-one storage tanks were also retransferred to the U.S.S.R. by the British for use in the Caspian Area. These tanks were originally supplied under lend-lease from U.S. to the British.

** Data not yet available
All tons are 2000 lbs. net weight.

SHIPMENTS TO U. S. S. R.

(FIGURES SHOW GROSS TONS SHIPPED - JUNE 22, 1941 TO SEPT. 20, 1945)



TOTAL SHIPMENTS				
June 22, 1941 to Sept. 20, 1945				
Route	Shipped	Arrived	Enroute	Lost
North Russia	100%	93%	0%	7%
Persian Gulf	100	96	0	4
Black Sea	100	99	1	0
Soviet Far East	100	99	1	0
Soviet Arctic	100	100	0	0
Total	100	97	1	2

NOTE: SHIPMENTS TO THE PERSIAN GULF ARE MADE BY SEVERAL ROUTES. THE TONNAGE SHOWN IS THE TOTAL FOR ALL ROUTES.

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REPORT ON WAR AID FURNISHED BY THE
UNITED STATES TO THE U.S.S.R.

RELIEF SHIPMENTS

In addition to the supplies furnished by the United States on a lend-lease basis or for cash various relief societies contributed to the Soviet war effort by the shipment of relief articles procured with funds contributed by the citizenry of the United States. Chief among the societies which carried on this work were the Russian War Relief, Inc. and the American Red Cross.

A statement issued as of December 31, 1945 by the American Society for Russian Relief, Inc. successor to Russian War Relief, Inc., indicated that that organization had shipped a total of 31,094 long tons of supplies valued at \$56,368,242 including 19,155 tons of clothing, blankets and textiles valued at \$41,275,618, medical, surgical and chemical items valued at \$9,727,272, foodstuffs and seeds valued at \$2,669,474, special kits valued at \$2,331,693 and miscellaneous items valued at \$364,185.

Up to January 3, 1946, the American Red Cross had shipped medical supplies, drugs, biologicals, hospital equipment, laboratory equipment, blood plasma processing units and clothing totalling 7,690 long tons and valued at \$22,859,979. These supplies were consigned for the use of the Union of Red Cross and Red Crescent Societies and various institutions and hospitals in the U.S.S.R.

The United States Government together with the Soviet Government made available to relief societies sufficient shipping space to transport these relief supplies to the U.S.S.R. During the period of the war ocean freight charges for supplies carried on U.S. ships were absorbed by the lend-lease program.

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