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28 January 1964

MEMORANDUM FOR: Eugene T. Olson
Special Assistant to the
Secretary of Agriculture
U.S. Department of Agriculture

SUBJECT: Information on Soviet Exports of Tractors and
Agricultural Machinery, and Soviet Bloc Aid to
North Vietnamese Agriculture

1. Attached are tables on Soviet exports of tractors and agricultural machinery for the period 1959-62, and information on Soviet Bloc aid to North Vietnamese agriculture. These materials are being sent in response to your request at our meeting on 23 January.

2. These draft materials have been prepared for your use, but because of time limitations they have not been checked for accuracy or coordinated with other components of the Agency and hence do not represent a CIA position.

Attachment:

1. Tables on Soviet Exports of Tractors and Agricultural Machinery for the Period 1959-62
2. Soviet Bloc Aid to North Vietnamese Agriculture

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Soviet Bloc Aid to North Vietnamese Agriculture

A preliminary survey indicates that total USSR economic aid to North Vietnam, since 1955, has amounted to \$359,000,000. While most of these funds have been for non-agricultural purposes, in June 1960 a loan of \$87,500,000 nearly 1/4 of the total, was granted mainly for expanding the production and processing of tropical crops. Under this loan, the DRV was to establish 25 factories for the preliminary processing of coffee, 15 tea processing factories, 4 fruit preserving factories and 4 fruit packing plants. The USSR planned to send specialists to help draw up draft plans for these factories and to permit North Vietnamese to go to the USSR to study production techniques. The Soviet Union was also to help in the establishment of 19 state farms and in the reorganization of 27 existing farms for growing coffee, tea, bananas, pineapples, citrons, rubber, pineapples and other tropical products.

In addition to the agricultural processing plants, the USSR has supplied the DRV with an apatite processing plant (ore for phosphate fertilizers), a superphosphate plant, timber mechanization facilities, equipment for laboratories for the Institute of Agriculture and Forestry, chemical fertilizers, insecticides, fish canneries and a corn mill. The superphosphate plant has an annual capacity of 100,000 metric tons and started production in mid-1962.

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The USSR has also invested heavily in electrical power facilities in the DRV. This would be of considerable benefit to the DRV irrigation program, which is very important for stabilizing the production of rice, the most important crop in the DRV.

The DRV, traditionally a food deficit area, is in great need of fertilizers. The USSR has supplied the DRV with the following amounts of ammonium phosphate:

1959	41,300 metric tons
1960	18,500 metric tons
1961	51,400 metric tons
1962	39,300 metric tons

The DRV also obtains additional chemical fertilizer from other sources particularly Japan.

In addition to the USSR, other eastern European countries have supported the DRV agricultural program. An incomplete list of the various types of assistance involved is given below.

Hungary

- a. Agricultural equipment (sic).
- b. A slaughter house to be completed during the current Five-year plan (1961-65).

Rumania

- a. More than 2,000 agricultural machines (sic).
- b. 1961-65 plan: enlargement of the apatite mine located at Lao Kay, including an improvement of the extracting process to improve the quality of the ore.
- c. An apatite mining equipment repair shop.

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- a. 1,000 agricultural machines (etc).
- b. a fleet of modern fishing trawlers (tonnages and number not indicated).
- c. 1961-65 plan: fertilizers (no amount given).

Bulgaria; 1961-65 plan:

- a. one fruit and vegetable cannery.
- b. two flour mills.
- c. one mechanized slaughterhouse.

Czechoslovakia

- a. aid in construction of 3 saw mills.

Poland

- a. a sugar refinery.

Grants and credits extended by the USSR and other bloc countries to North Vietnam are substantial. If Chinese aid is included -- the largest single source of aid --- total grants and credits amounted to 12% of DRV's GNP over the period 1955-59.

20 January 1964

SUBJECT: Tables on Soviet Exports of Tractors and
Agricultural Machinery for the Period 1959-62.

The four tables attached summarize Soviet exports of tractors and agricultural machinery for the period 1959-62 by units and by value and show the countries of destination. The sources of the data for each table are the annual Soviet foreign trade handbooks.

Because of the time limitation, the data contained in the attached tables have not been checked for accuracy against the original sources. It is requested that the originating office be given the opportunity to check these tables for accuracy prior to their use for official purposes.

Table I. Soviet Exports
1950-6

	Units			
	1950	1960	1961	1962
Total Exports	<u>17453</u>	<u>15887</u>	<u>16128</u>	<u>15800</u>
Communist World	<u>15428</u>	<u>15824</u>	<u>12757</u>	<u>10530</u>
Albania	361	461	155	272
Bulgaria	4724	3719	2324	3756
China	341	1570	30	30
Cuba	0	601	1265	1022
Czechoslovakia	1608	1371	2400	2071
East Germany	1061	1438	1275	127
Hungary	3310	3518	2005	745
Malaysia	280	201	1071	1665
North Korea	756	250	1	
North Vietnam	25	42	40	130
Poland	1288	1360	213	200
Romania	157	462	216	310
Yugoslavia	357	212	0	11
Free World	<u>1955</u>	<u>3063</u>	<u>3371</u>	<u>5270</u>
Developing	<u>1872</u>	<u>2539</u>	<u>3006</u>	<u>1715</u>
Greece	286	280	272	150
Afghanistan	0	5	1	7
Burma	0	0	5	31
India	846	361	1442	500
Iran	10	18	26	12
Syria	4	11	43	0
Egypt	408	876	383	745
Ceylon	0	3	2	0
Sudan	1	1	0	2 2 2
Spain	2	350	0	2 2 2
Indonesia	116	0	22	130
Iraq	100	0	100	2
Ethiopia	1	0	11 2 2	21 2 2
Argentina	20	0	11 2 2	21 2 2
Guinea	0	17	31	0
Tunisia	0	52	12	0
Mexico	78	25	0	21 2 2
Chad	2 2 2	11 2 2	0	18
Uruguay	21 2 2	0	1	0
Lebanon	21 2 2	21 2 2	11 2 2	21 2 2
Turkey	0	0	11 2 2	21 2 2
Industrial	<u>73</u>	<u>522</u>	<u>350</u>	<u>66</u>
Denmark	1	0	11 2 2	21 2 2
Finland	72	122	33	0
France	0	100	12	10
Holland	2 2 2	2 2 2	0	0
Sweden	0	0	11 2 2	21 2 2
Other (Unaccounted for)	10	2	15	50 2

1 rub. = 0.05 percent

Ruble values in this table are given in new rubles established by the Soviet currency reform of 1 January 1961. A nominal rate of exchange based on the gold content of the respective currencies of 0.90 ruble to US \$1. This rate, however, should not be interpreted as an estimate of the equivalent dollar value of similar US goods or services.

Value 3

		1959	1960	1961	1962	Value
1000	1000	24245	73716	77153	72694	288708
1000	1000	60988	68906	70399	68558	265841
1017	11	2183	2636	1615	1123	6414
1005	234	12182	13525	11319	11632	48662
1015	10	5939	5114	355	973	10986
1024	13	0	1125	3237	6081	10453
1050	121	12148	10378	21562	18616	62702
1065	75	2787	19025	5467	3879	16938
1080	140	2101	10457	10488	7210	37506
1027	53	5865	2310	2780	4334	14009
1010	16	2432	1099	768	1244	5533
1016	23	1517	451	557	840	2165
1074	67	7659	7920	7679	9715	32962
1025	14	1017	3140	2472	2452	10971
1051	20	2404	5928	185	721	9528
1020	1218	2757	4310	6759	4341	13867
1032	141	5833	4262	6309	4230	18654
1006	15	586	297	404	253	1430
10	31	4	5	1	16	26
104	21	2	0	4	141	147
1012	29	789	1137	1769	641	4336
106	21	33	36	54	21	144
108	21	36	35	20	0	223
1054	26	1203	1815	3019	2734	8771
10	27	0	5	3	0	8
102	27	5	2	0	1123	7
1052	25	3	517	0	1123	520
1066	24	618	5	52	311	981
1022	23	297	0	450	4	751
10	27	1	0	1123	1123	1
100	27	208	58	3	2	271
108	22	0	42	442	0	484
104	21	0	72	16	0	88
108	22	153	146	0	1123	279
108	27	1123	1123	0	107	107
10	27	1123	0	2	0	2
1022	1123	2	1123	1123	1123	2
1022	1123	56	0	1123	222	56
1011	16	103	522	402	66	1113
101	27	1	0	1123	1123	1
102	24	93	98	66	5	262
107	12	124	424	386	74	834
103	27	1123	1123	0	7	7
102	27	9	0	1123	1123	9
107	27	21	26	13	25	120

	25004	28224	37252	35913	12
<u>Exports</u>					
<u>Industrial World</u>	<u>25716</u>	<u>37909</u>	<u>46315</u>	<u>22726</u>	<u>12</u>
Albania	909	765	328	212	1
Bulgaria	6340	9311	10177	13285	41
China	3601	2743	247	13	6
Cuba	0	17	52	2145	2
Czechoslovakia	1602	2291	10684	4061	18
East Germany	246	259	1581	220	2
Hungary	6260	13902	6301	1512	34
Moldavia	3416	5409	6128	6365	21
North Korea	352	140	15	1	2
North Vietnam	45	60	16	59	1
Poland	96	1808	1920	1617	40
Romania	140	429	296	126	5
Yugoslavia	7	176	1	2	1
<u>World</u>	<u>188</u>	<u>315</u>	<u>328</u>	<u>177</u>	<u>10</u>
<u>Developing</u>	<u>165</u>	<u>260</u>	<u>299</u>	<u>132</u>	<u>5</u>
Afghanistan	7	5	1	1	
Burma	18	0	1	1	2
Ceylon	0	4	0	22	
Egypt (U.A.R.)	21	11	67	13	11
Ghana	112	112	0	20	2
Greece	26	1	1	4	3
Guinea	112	0	103	0	10
India	19	26	51	22	11
Indonesia	0	17	0	0	1
Iran	28	0	18	71	11
Iraq	0	150	50	5	20
Mexico	39	21	0	22	20
Morocco	0	1	0	22	1
Syria	9	9	0	0	11
Tunisia	0	1	0	22	1
Turkey	7	23	4		
<u>Industrial</u>	<u>7</u>	<u>2</u>			
Finland	7	2			
<u>Other (Unaccounted for)</u>	<u>16</u>	<u>53</u>	<u>29</u>	<u>45</u>	

1/ Excluding outright gifts. 2/ Excluding outright gifts. 3/ Probably from 1954-1955.
 4/ Soviet trade handbooks.

7

Ruble values in 1955
of 1 January 1955
currencies is 0.16
rate of the 1955

Thousands of rubles

Value	Percent																			
27221	100.0																			
26276	96.9																			
1302	1.4																			
41013	30.5																			
6654	4.8																			
2214	1.6																			
18638	13.6																			
2306	1.7																			
32765	25.3																			
21408	15.6																			
508	0.4																			
189	0.1																			
4612	3.4																			
581	0.7																			
186	0.1																			
1018	0.7																			
355	0.6																			
19	0.1																			
20	0.1																			
4	0.1																			
112	0.1																			
20	0.1																			
22	0.1																			
106	0.1																			
113	0.1																			
17	0.1																			
117	0.1																			
200	0.1																			
60	0.1																			
1	0.1																			
22	0.1																			
1	0.1																			
34	0.1																			
12	0.1																			
12	0.1																			
1.50	0.1																			
0.5 percent	5/ less than 500 rubles	4/ less than 1000 rubles																		

is table are given in new rubles established by the Soviet currency reform
 A nominal rate of exchange based on the gold content of the respective
 ruble to US \$1. This rate, however, should not be interpreted as an esti-
 mated dollar value of similar US goods or services.

Unit 4

		1959	1960	1961	1962	
Total Exports		-	-	-	-	
9100	Planes	1,200	2,500	5,500	4,000	
9102	Helicopters	600	3,700	5,500	600	
9103	Cultivators	1,600	2,800	1,000	1,800	
9110-11	Drills	3,600	12,400	6,700	7,000	
9112-13	9120	Combines	3,400	5,500	5,300	5,000
9122	Mowers	500	300	600	1,000	
9123	Rakes	200	600	1,500	600	
9124	Mulch	2,400	1,200	500	500	
9126	Reapers	2,300	2,100	2,200	2,100	
9131-32	Threshing machines	181	61	40	13	
9136	Minnow-graders	584	2	233	283	
9138	Grain cleaning machines	141	693	664	613	
9139	Grain driers	30	5	0	16	
9162	Electric sheep shearing units	863	135	484	70	
9153	Straw-silage choppers	153	633	303	03	
9112	Potato planters	03	143	593	703	
9101	Stalk-plows	103	03	1503	2453	
9108	Water-filled rollers	12	12	3103	4753	
9148	Sprinkling units	12	03	43	03	
9159	Haulers	12	12	613	853	
9163	Agricultural cutters [frezy]	12	03	203	03	
9161	Grain loaders	13	173	143	1253	
9166	Spare parts	-	-	-	-	
	Other machines	-	-	-	-	

for 1959-60 trade

1960 handbook includes categories 1310 & 1311 with heading of Drills but data in table indicates that the data for 1959 includes horse-drawn drills.

1 Deleted from handbook. Trade presumably zero.

This category was not broken out in the 1960 handbook on 1959-60 trade but the 1961 handbook 1960-62 for totals plus Albania and Mongolia for 1959. 3 Albania only. 4 Albania and Egypt for 6 and 9.

Source: Soviet trade handbooks.

(1)

Ruble values in this table are as of 1 January 1962. The currencies of U.S.S.R. are in rubles. The rate of the equivalent

Value (Thousands of Rubles) ¹¹

	1959	1960	1961	1962	1963	Percent
	25004	35224	57253	35913	137204	100.0
20000	1033	2350	1742	1370	7300	5.3
10,100	295	919	585	154	1936	1.4
7200	432	972	291	540	2235	1.6
32300	3143	3962	2468	1214	10830	7.9
13500	12400	21084	19536	19278	72217	52.6
2,100	103	64	190	298	661	0.5
2,050	22	78	535	312	917	0.7
4,000	501	250	186	110	1047	0.8
3,500	2142	2544	2452	3060	10525	7.7
295	300	102	67	19	488	0.4
586	800	1	23 ²	22 ²	301	0.2
2911	122	183	1526	1421	4122	3.0
51	78	12	0	41	131	0.1
1075 ²	100 ²	552	614	89	1364 ²	1.0
109 ²	6 ²	22 ²	10 ²	0 ²	38 ²	0.03
88 ²	0 ²	9 ²	33 ²	12 ²	51 ²	0.04
405 ²	1 ²	0 ²	73 ²	143 ²	220 ²	0.2
789 ²	1 ²	1 ²	120 ²	171 ²	291 ²	0.2
4 ²	1 ²	0 ²	5 ²	0 ²	5 ²	0.001
146 ²	12 ²	12 ²	103 ²	155 ²	256 ²	0.2
20 ²	1 ²	0 ²	12 ²	0 ²	12 ²	0.01
172 ²	1 ²	1 ²	21 ²	122 ²	155 ²	0.1
-	1708	3584	5448	6112	10852	7.9
-	1483	1286	1236	1272	5277	3.8

Books for 1960: 2 trade is only for 1960, that is, tractor drills. This would be...

at an 1960 trade gave the data for 1960. Data shown for 1959 is for Albania and Mongolia...
 2 See footnotes 5 and 6. 3 Mongolia only. 4 Egypt only. 5 See...

are given in new rubles established by the Soviet currency reform...
 rate of exchange based on the gold content of the respective...
 to US \$1. This rate, however, should not be interpreted as an esti-
 value of similar US goods or services.

Types of Soviet Agricultural Machinery Exported During 1959-62
 Showing the Percentage Each Type of Machine Represents of
 Total Exports* and of Exports* to Individual Countries
 Based on Ruble Value

Destination	Type of Machine and Percent of Total
Total Exports	Combines - 52.6; spare parts - 12.3; drills - 7.9; reapers - 7.7; plows - 5.3; unknown - 3.8; grain cleaning machines - 3.0; cultivators - 1.6; harrows - 1.4; electric sheep shearers - 1.0; mowers, rakes, pickup attachments for combines, threshing machines, winnowers, straw-silage choppers, potato planters, surface plows, water-filled rollers, sprinkling units, hay balers, and grain loaders - 3.4.
Albania	Combines - 22.5; plows - 19.7; harrows - 18.8; spare parts - 16.0; tractor drills - 8.3; unknown - 6.8; electric sheep shearers - 5.4; cultivators - 1.3; straw-silage choppers - 1.3.
Bulgaria	Combines - 66.5; unknown - 17.3; spare parts - 7.8; reapers - 7.2; pickup attachments for combines - 1.1.
Comm. China	Combines - 19.5; unknown - 13.7; plows - 13.1; tractor drills - 12.1; reapers - 10.6; harrows - 10.4; cultivators - 8.2; grain cleaning machines - 4.6; winnowers - 3.7; spare parts - 3.5; mowers - 0.1.
Cuba	Combines - 58.5; unknown - 41.5.
Czechoslovakia	Combines - 56.9; spare parts - 16.3; grain cleaning machines - 8.2; tractor drills - 7.0; reapers - 6.9; unknown - 2.0; harrows - 1.6; plows - 1.0; grain driers and mowers - each less than 0.1.
East Germany	Combines - 37.7; spare parts - 33.5; tractor drills - 27.8; unknown - 1.0.
Hungary	Combines - 50.0; spare parts - 14.3; tractor drills - 12.0; reapers - 10.5; plows - 8.3; unknown - 3.2; cultivators - 1.7.
Mongolia	Combines - 41.3; spare parts - 11.8; unknown - 9.7; reapers - 8.6; grain cleaning machines - 7.2; tractor drills - 6.5; plows - 3.9; pickup attachments for combines - 2.2; mowers - 1.7; harrows - 1.5; water-filled rollers - 1.4; hay balers - 1.2; rakes, shallow plows, potato planters, electric sheep shearers, cultivators, winnower-graders - 3.0.
North Korea	Plows - 49.4; unknown - 50.6.
North Vietnam	Spare parts - 43.4; harrows - 28.6; plows - 13.8; unknown - 6.9; tractor drills - 5.8; cultivators - 1.6.
Poland	Combines - 53.4; spare parts - 23.2; plows - 13.0; unknown - 10.1; mowers - 0.3.
Rumania	Electric sheep shearers - 32.9; spare parts - 28.5; combines - 14.5; plows - 13.7; unknown - 9.2; cultivators - 0.9; mowers - 0.3.
Yugoslavia	Combines - 95.7; unknown - 3.2; tractor drills - 1.1.

* of agricultural machinery

<u>Destination</u>	<u>Type of Machine and Percent of Total</u>
Afghanistan	Unknown - 85.7; plows - 14.3.
Burma	Plows - 85.0; unknown - 15.0.
Ceylon	Unknown - 100.0.
Egypt (UAR)	Cultivators - 33.9; plows - 25.0; straw-silage cutters - 11.6; rotary cutters - 10.7; harrows - 8.9; sprinkling units - 4.5; shallow plows - 3.6; combines - 1.8.
Ghana	Harrows - 100.0.
Greece	Plows - 75.0; mowers - 12.5; unknown - 12.5.
Guinea	Plows - 100.0.
India	Plows - 39.8; spare parts - 35.6; cultivators - 13.6; unknown - 7.6; harrows - 3.4.
Indonesia	Rice combines - 100.0.
Iran	Unknown - 76.1; plows - 12.0; spare parts - 6.0; harrows - 4.3; reapers - 1.7.
Iraq	Plows - 37.5; harrows - 32.5; tractor drills - 30.0.
México	Unknown - 48.3; plows - 30.0; tractor drills - 21.7.
Morocco	Cultivators - 100.0.
Syria	Unknown - 100.0.
Tunisia	Plows - 100.0.
Turkey	Rakes - 52.9; mowers - 35.3; unknown - 11.8.
Finland	Mowers - 100.0.

Source: Soviet Trade Handbooks.