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Food and Agricultural
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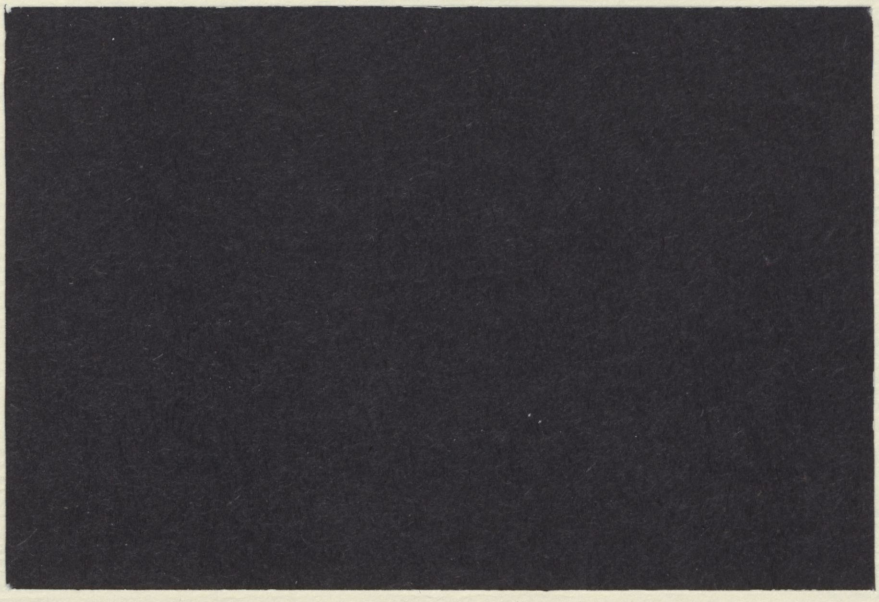

CTAP Staff Report

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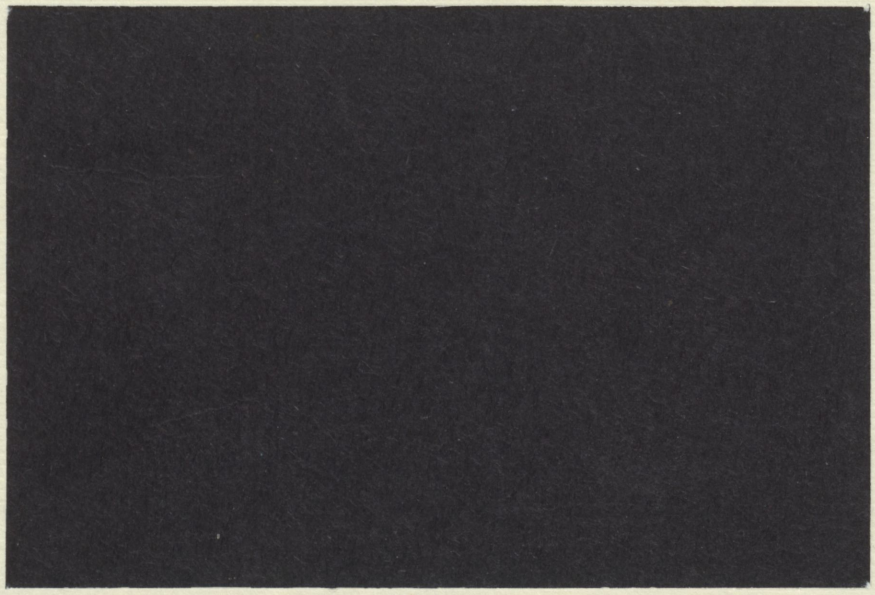

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Appendix to
CTAP Staff Report #11

The following tables document the data utilized in CTAP Staff Report #11, "Commercial World Commodity Export Demand Equations Utilizing Real Importer Prices and Income." Data sources, variable definitions and computations are found in Table A-24.

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TABLE A-1: WORLD WHEAT EXPORTS

	U.S. (MN. BU.)				COMPETITOR (MN. M.T.)		
	COMMER.	USSR-PRC	PL 480	TOTAL	COMMER.	USSR-PRC	TOTAL
1961	300.2	0.0	419.2	719.4	17.5	5.1	22.6
1962	165.8	64.4	413.6	643.8	15.0	5.1	20.1
1963	441.9	1.7	412.6	856.1	17.1	13.2	30.3
1964	238.8	0.0	486.2	725.0	22.6	7.2	29.8
1965	380.3	0.0	471.7	852.0	20.6	14.8	35.4
1966	491.6	0.0	279.4	771.0	22.6	8.1	30.7
1967	426.9	0.0	338.1	765.0	19.4	5.7	25.1
1968	338.2	0.0	205.8	544.0	22.3	3.8	26.1
1969	392.3	0.0	210.7	603.0	23.2	6.3	29.5
1970	551.8	0.0	189.2	741.0	25.5	4.1	29.6
1971	419.2	0.1	190.7	610.0	25.9	6.5	32.4
1972	650.3	369.6	115.1	1135.0	26.0	10.8	36.8
1973	951.6	217.3	48.1	1217.0	26.3	4.2	30.5
1974	830.5	89.8	97.7	1018.0	28.8	5.8	34.6
1975	923.8	144.2	105.0	1173.0	30.8	8.3	39.1
1976	777.1	96.1	76.8	950.0	33.8	4.9	38.7
1977	866.0	127.6	130.4	1124.0	31.1	11.7	42.8
1978	878.8	194.9	120.3	1194.0	31.2	7.7	38.9
1979	1043.2	222.9	108.9	1375.0	35.5	15.0	50.5
1980	983.1	430.0	96.9	1510.0	30.0	18.1	48.1
1981	1139.7	532.3	98.9	1770.9	31.5	17.8	49.3
1982	1121.3	319.6	68.1	1509.0	28.4	26.0	54.4
1983	1053.9	260.0	111.0	1424.9			58.0

	WORLD (MN. M.T.)			
	COMMERCIAL	USSR-PRC	PL 480	TOTAL
1961	25.6	5.1	11.4	42.2
1962	19.5	6.9	11.3	37.6
1963	29.1	13.2	11.2	53.6
1964	29.1	7.2	13.2	49.5
1965	30.9	14.8	12.8	58.6
1966	36.0	8.1	7.6	51.7
1967	31.1	5.7	9.2	45.9
1968	31.6	3.8	5.6	40.9
1969	33.9	6.3	5.7	45.9
1970	40.5	4.1	5.1	49.8
1971	37.3	6.5	5.2	49.0
1972	43.7	20.9	3.1	67.7
1973	52.2	10.2	1.3	63.6
1974	51.4	8.2	2.7	62.3
1975	55.9	12.2	2.9	71.0
1976	55.0	7.5	2.1	64.6
1977	54.7	15.1	3.5	73.4
1978	55.1	13.0	3.3	71.4
1979	63.9	21.1	3.0	87.9
1980	56.8	29.8	2.6	89.2
1981	62.5	32.3	2.7	97.5
1982	58.9	34.7	1.9	95.5
1983			3.0	96.8

TABLE A-2: WORLD CORN EXPORTS

	U.S. (MN. BU.)				COMPETITOR (MN. M.T.)		
	COMMER.	USSR-PRC	PL 480	TOTAL	COMMER.	USSR-PRC	TOTAL
1961	376.6	0.0	58.8	435.4	5.8	-1.1	4.7
1962	340.7	0.0	75.2	415.9	7.0	-0.8	6.1
1963	461.5	0.0	38.9	500.4	6.5	-0.6	6.0
1964	531.6	0.0	37.9	569.5	5.8	-0.5	5.2
1965	657.1	0.0	30.3	687.4	4.5	-0.2	4.3
1966	456.9	0.0	30.1	487.0	6.9	.0	6.9
1967	602.7	0.0	30.6	633.3	7.3	0.2	7.5
1968	519.8	0.0	15.8	535.6	7.2	0.2	7.4
1969	597.6	0.0	13.9	611.5	6.5	.0	6.4
1970	494.0	0.0	22.9	516.9	7.9	.0	7.9
1971	663.1	112.0	20.8	795.9	9.7	0.1	9.7
1972	1024.7	202.0	31.1	1257.8	6.9	0.1	7.1
1973	1031.7	183.0	28.5	1243.2	7.7	-0.1	7.6
1974	1103.7	35.0	9.8	1148.5	10.6	0.5	11.1
1975	1238.1	466.0	7.3	1711.4	6.4	.0	6.3
1976	1463.5	120.0	100.7	1684.2	8.1	1.1	9.2
1977	1460.1	411.7	76.0	1947.8	8.4	1.6	9.9
1978	1559.6	496.1	77.4	2133.1	6.4	5.1	11.5
1979	2209.3	181.1	42.2	2432.6	3.6	7.5	11.0
1980	2164.4	144.1	46.7	2355.2	14.8	5.8	20.6
1981	1600.9	339.2	26.8	1966.9	12.5	5.9	18.4
1982	1650.6	199.8	19.6	1870.0	12.9	3.5	16.4
1983	1650.0	200.0	25.0	1875.0	14.7	1.6	16.3

	WORLD (MN. M.T.)			
	COMMER.	USSR-PRC	PL 480	TOTAL
1961	15.3	-1.1	1.5	15.7
1962	15.6	-0.8	1.9	16.7
1963	18.3	-0.6	1.0	18.7
1964	19.3	-0.5	1.0	19.7
1965	21.2	-0.2	0.8	21.8
1966	18.5	.0	0.8	19.3
1967	22.7	0.2	0.8	23.6
1968	20.5	0.2	0.4	21.0
1969	21.6	.0	0.4	22.0
1970	20.5	.0	0.6	21.0
1971	26.5	2.9	0.5	30.0
1972	33.0	5.3	0.8	39.0
1973	33.9	4.6	0.7	39.2
1974	38.7	1.4	0.2	40.3
1975	37.8	11.8	0.2	49.8
1976	45.3	4.1	2.6	52.0
1977	45.5	12.0	1.9	59.4
1978	46.0	17.7	2.0	65.6
1979	59.7	12.1	1.1	72.8
1980	69.8	9.4	1.2	80.4
1981	53.1	14.5	0.7	68.3
1982	48.7	8.6	0.5	57.8
1983	48.7	6.7	0.6	56.0

TABLE A-3: WORLD SOYBEAN EXPORTS

	U.S. (MN. BU.)			COMPETITOR (MN. M.T.)		
	COMMER.	USSR-PRC	TOTAL	COMMER.	USSR-PRC	TOTAL
1961	149.4	0.0	149.4	0.07	0.00	0.07
1962	180.8	0.0	180.8	0.10	0.00	0.10
1963	187.2	0.0	187.2	0.03	0.00	0.03
1964	212.2	1.3	213.5	0.00	0.00	0.00
1965	250.6	0.9	251.5	0.10	0.00	0.10
1966	261.6	0.0	261.6	0.21	0.00	0.21
1967	266.6	0.0	266.6	0.19	0.00	0.19
1968	287.0	0.0	287.0	0.19	0.00	0.19
1969	432.6	0.0	432.6	0.30	0.00	0.30
1970	433.8	0.0	433.8	0.26	0.00	0.26
1971	416.8	0.0	416.8	0.63	0.00	0.63
1972	446.7	32.7	479.4	1.43	.00	1.43
1973	510.7	28.4	539.1	3.25	.00	3.25
1974	419.3	1.4	420.7	3.46	0.00	3.46
1975	544.5	10.6	555.1	2.54	0.47	3.01
1976	531.4	32.7	564.1	3.37	0.70	4.07
1977	668.9	31.6	700.5	3.35	0.18	3.53
1978	690.2	48.9	739.0	4.29	0.05	4.34
1979	812.9	62.1	875.0	3.78	0.69	4.47
1980	706.8	17.2	724.0	3.52	0.72	4.24
1981	888.2	40.8	929.0	0.63	0.85	1.48
1982	897.7	7.3	905.0	1.70	0.85	2.56
1983	710.0	15.0	725.0	4.01	0.69	4.70

	WORLD (MN. M.T.)		
	COMMER.	USSR-PRC	TOTAL
1961	4.14	0.00	4.14
1962	5.02	0.00	5.02
1963	5.13	0.00	5.13
1964	5.78	0.04	5.81
1965	6.92	0.02	6.94
1966	7.33	0.00	7.33
1967	7.44	0.00	7.44
1968	8.00	0.00	8.00
1969	12.07	0.00	12.07
1970	12.07	0.00	12.07
1971	11.97	0.00	11.97
1972	13.59	0.89	14.48
1973	17.15	0.78	17.92
1974	14.87	0.04	14.91
1975	17.36	0.76	18.12
1976	17.83	1.59	19.42
1977	21.55	1.04	22.59
1978	23.07	1.38	24.45
1979	25.91	2.38	28.29
1980	22.76	1.19	23.95
1981	24.81	1.95	26.76
1982	26.13	1.05	27.19
1983	23.33	1.10	24.43

TABLE A-4: WORLD SOYMEAL EXPORTS

	U.S. (MN. TON)	COMPETITOR (MN. M.T.)	WORLD (MN. M.T.) COMMER.	USSR-PRC	TOTAL
1961	1.06	0.00	0.97	0.00	0.97
1962	1.48	0.00	1.34	0.00	1.34
1963	1.48	0.06	1.40	0.00	1.40
1964	2.04	.00	1.85	0.00	1.85
1965	2.60	0.11	2.47	0.00	2.47
1966	2.66	0.19	2.60	0.00	2.60
1967	2.90	0.13	2.76	0.00	2.76
1968	3.04	0.24	3.00	0.00	3.00
1969	4.04	0.31	3.97	0.00	3.97
1970	4.56	0.58	4.72	0.00	4.72
1971	3.81	0.99	4.44	0.00	4.44
1972	4.75	1.51	5.81	0.00	5.81
1973	5.55	1.37	6.41	0.00	6.41
1974	4.30	2.40	6.30	0.00	6.30
1975	5.15	3.45	8.12	0.00	8.12
1976	4.56	4.08	8.22	0.00	8.22
1977	6.08	6.64	12.16	0.00	12.16
1978	6.61	5.83	11.77	0.05	11.83
1979	7.93	5.84	12.75	0.28	13.04
1980	6.78	6.88	12.07	0.97	13.03
1981	6.91	9.41	14.58	1.10	15.68
1982	7.11	8.66	12.30	2.81	15.11
1983	6.00	9.80	14.64	0.60	15.24

TABLE A-5: WORLD SOYOIL EXPORTS

	U.S. (MN. LB.)			COMPETITOR (MN. LB.)	WORLD (MN. M.T.)		
	COMMER.	PL 480	TOTAL	TOTAL	COMMER.	PL 480	TOTAL
1961	782	526	1308	549	0.60	0.24	0.84
1962	661	504	1165	199	0.39	0.23	0.62
1963	507	599	1106	194	0.32	0.27	0.59
1964	737	602	1339	233	0.44	0.27	0.71
1965	479	443	923	262	0.34	0.20	0.54
1966	283	793	1076	287	0.26	0.36	0.62
1967	89	873	963	365	0.21	0.40	0.60
1968	79	790	870	272	0.16	0.36	0.52
1969	664	755	1420	345	0.46	0.34	0.80
1970	900	842	1742	311	0.55	0.38	0.93
1971	626	773	1398	321	0.43	0.35	0.78
1972	623	442	1065	739	0.62	0.20	0.82
1973	1201	235	1435	1045	1.02	0.11	1.13
1974	811	217	1028	1273	0.95	0.10	1.04
1975	573	403	976	2041	1.19	0.18	1.37
1976	1177	371	1548	2284	1.57	0.17	1.74
1977	1581	476	2057	3103	2.13	0.22	2.34
1978	1999	335	2334	3213	2.36	0.15	2.52
1979	2173	517	2690	3075	2.38	0.23	2.62
1980	1054	577	1631	4955	2.73	0.26	2.99
1981	1535	542	2077	4591	2.78	0.25	3.03
1982	1489	536	2025	4862	2.88	0.24	3.12

TABLE A-6: DERIVATION OF INCOME VARIABLE WEIGHTS

	AVG. CORN IMPORTS, 1978/79-1982/83, IN MN. M.T.	WEIGHTS	AVERAGE SOYBEAN IMPORTS	WEIGHTS
MEXICO	2.10	0.048	0.91	0.042
EC-10	10.10	0.231	11.70	0.543
JAPAN	12.64	0.290	4.25	0.197
E. EUROPE	6.52	0.149	0.67	0.031
TAIWAN	2.64	0.060	1.09	0.051
S. KOREA	2.48	0.057		
SPAIN	4.68	0.107	2.94	0.136
PORTUGAL	2.50	0.057		
USSR	14.10		1.61	
CHINA	1.58		0.50	
OTHERS	13.62		3.25	
TOTAL	72.96		26.92	
SUBTOTAL	43.66		21.56	

	AVERAGE SOYMEAL IMPORTS	WEIGHTS	AVERAGE MEAL-EQ. IMPORTS	WEIGHTS
MEXICO	0.13	0.012	0.85	0.031
EC-10	6.28	0.593	15.64	0.562
JAPAN	0.22	0.021	3.62	0.130
E. EUROPE	3.65	0.344	4.18	0.150
TAIWAN			0.87	0.031
S. KOREA				
SPAIN	0.16	0.015	2.51	0.090
PORTUGAL	0.16	0.015	0.16	0.006
USSR	0.84		2.13	
CHINA			0.40	
OTHERS	3.36		5.96	
TOTAL	14.79		36.32	
SUBTOTAL	10.59		27.83	

	AVERAGE SOYOIL IMPORTS	WEIGHTS	AVERAGE WHEAT IMPORTS	WEIGHTS
IND. COUNTRIES	0.17	0.063	7.65	0.128
OIL-EXPORTING LDCS	0.49	0.187	13.98	0.234
NON-OIL LDCS	1.79	0.678	32.51	0.545
EAST EUROPE	0.19	0.072	5.56	0.093
USSR	0.11		14.35	
CHINA	0.07		11.78	
TOTAL	2.81		85.83	
SUBTOTAL	2.64		59.70	

TABLE A-7: REAL GDP INDICES, 1980=100

	MEXICO	EC-9	JAPAN	E.EUROPE	TAIWAN	S.KOREA
1961	28.106	50.318	24.426	51.982	19.413	19.524
1962	29.427	52.478	26.136	54.097	21.101	19.934
1963	31.788	54.673	28.872	56.300	22.936	21.749
1964	35.497	57.908	32.658	58.502	24.930	23.858
1965	37.802	60.413	36.346	60.881	26.783	25.225
1966	40.416	62.509	40.205	63.260	29.297	28.290
1967	42.974	64.470	44.553	65.727	32.482	29.969
1968	46.431	67.836	50.220	68.282	35.503	33.346
1969	49.354	71.681	56.375	70.925	39.182	40.590
1970	52.782	75.065	61.969	73.833	43.698	45.529
1971	55.003	77.632	64.875	76.476	49.194	49.727
1972	59.668	80.783	70.713	79.207	55.815	52.655
1973	64.671	85.485	76.942	82.026	62.182	60.250
1974	68.634	86.758	76.014	85.022	60.805	65.014
1975	72.456	85.929	77.846	88.106	63.321	69.875
1976	75.520	90.534	81.974	91.189	73.230	78.758
1977	78.078	92.571	86.321	94.449	80.307	87.251
1978	84.542	95.666	90.718	97.621	89.978	96.076
1979	92.327	98.925	95.432	99.295	96.641	103.085
1980	100.000	100.000	100.000	100.000	100.000	100.000
1981	107.982	99.714	104.006	98.062	104.998	106.892
1982	107.336	100.254	107.450	99.559	110.484	112.768
1983	102.399	101.452	110.674	101.053	116.008	121.381

	SPAIN	PORTUG.	INDUST. COUNTRIES	OIL-EX. LDCS	NON-OIL LDCS
1961	37.397	35.186	47.3	26.9	37.1
1962	40.875	37.509	49.9	28.9	38.7
1963	44.465	39.374	52.2	31.1	41.0
1964	48.242	41.942	55.4	33.5	43.4
1965	51.272	45.074	58.5	36.0	45.7
1966	54.936	48.030	61.7	38.7	48.1
1967	57.292	51.830	63.8	41.6	50.4
1968	61.182	56.369	67.2	44.2	53.2
1969	66.642	57.460	70.6	48.8	56.9
1970	69.372	62.773	72.6	54.5	59.8
1971	72.812	66.925	75.2	59.2	63.3
1972	78.721	72.273	79.3	64.6	66.3
1973	84.929	80.366	84.0	69.2	70.5
1974	89.791	81.281	84.6	77.4	74.6
1975	90.763	77.762	84.3	78.8	78.3
1976	93.493	83.146	88.4	86.4	82.3
1977	96.597	87.861	91.9	92.1	86.7
1978	98.317	90.676	95.6	93.0	90.6
1979	98.504	94.757	98.7	97.5	94.9
1980	100.000	100.000	100.0	100.0	100.0
1981	100.187	105.067	101.6	102.0	102.7
1982	101.384	109.078	101.5	101.6	103.4
1983	103.716	107.494	103.9	100.0	104.1

TABLE A-8: REAL IMPORTER INCOME VARIABLES, CROP YEARS

	CORMINC	SOYMINC	SOMMINC	SOOMINC	WHEMINC	MEQMINC
1961	37.637	42.646	51.270	38.247	38.345	45.926
1962	39.974	45.054	53.477	40.395	40.414	48.256
1963	42.944	48.181	56.205	42.781	42.781	51.233
1964	45.835	51.091	58.805	45.185	45.247	54.025
1965	48.766	53.813	61.135	47.664	47.764	56.598
1966	51.730	56.432	63.373	50.102	50.266	59.072
1967	55.484	59.968	66.301	52.792	52.887	62.377
1968	59.855	64.258	69.661	56.317	56.177	66.320
1969	64.091	68.198	73.008	59.787	59.785	70.028
1970	67.465	71.309	75.804	63.333	63.298	73.018
1971	71.662	75.243	78.828	66.859	66.930	76.607
1972	76.924	80.249	82.739	70.888	70.884	81.196
1973	79.367	82.581	85.204	75.365	75.253	83.579
1974	80.709	83.241	86.142	78.738	78.803	84.345
1975	84.467	86.658	89.324	82.941	82.484	87.672
1976	88.500	89.975	92.259	87.473	87.111	90.844
1977	92.617	93.445	95.275	91.054	90.904	94.141
1978	96.517	96.937	98.140	94.926	94.431	97.394
1979	99.367	99.449	99.708	98.986	98.202	99.548
1980	101.644	100.892	99.566	101.623	100.982	100.388
1981	103.946	102.264	100.155	102.540	102.170	101.462
1982	106.164	103.913	101.333	102.991	102.604	102.932

ALTERNATIVE DEMAND SHIFT VARIABLES

	LIVEPUJ1	LIVIND	IRESDEV	IRESIND	YCAPI5	YCAPIND
1961	1.514	42.40	7653	10.66	4.529	52.78
1962	1.535	42.99	8171	11.38	4.658	54.28
1963	1.717	48.08	9308	12.97	4.662	54.33
1964	1.847	51.72	9111	12.69	4.840	56.40
1965	1.935	54.19	10345	14.41	4.800	55.94
1966	2.000	56.01	11282	15.72	4.870	56.75
1967	2.100	58.81	12002	16.72	5.000	58.27
1968	2.187	61.24	14006	19.51	5.306	61.83
1969	2.386	66.82	15361	21.40	5.462	63.65
1970	2.541	71.16	16875	23.51	5.668	66.05
1971	2.705	75.75	18412	25.65	5.883	68.56
1972	2.812	78.75	26132	36.41	6.046	70.46
1973	2.846	79.70	32307	45.01	6.420	74.82
1974	2.836	79.42	32973	45.94	6.724	78.36
1975	2.977	83.37	32288	44.98	6.981	81.35
1976	3.103	86.89	42790	59.62	7.330	85.42
1977	3.294	92.24	52795	73.56	7.720	89.97
1978	3.462	96.95	61673	85.92	8.181	95.34
1979	3.568	99.92	68703	95.72	8.418	98.10
1980	3.571	100.00	71776	100.00	8.581	100.00
1981	3.589	100.50	74356	103.59		
1982			83076	115.74		

TABLE A-9: DERIVATION OF PRICE VARIABLE WEIGHTS

	AVG. CORN IMPORTS, 1978/79-1982/83, IN MN. M.T.	WEIGHTS	AVERAGE SOYBEAN IMPORTS	WEIGHTS
MEXICO	2.10	0.057	0.91	0.043
EC-10	10.10	0.272	11.70	0.560
JAPAN	12.64	0.340	4.25	0.203
E. EUROPE	6.52		0.67	
TAIWAN	2.64	0.071	1.09	0.052
S. KOREA	2.48	0.067		
SPAIN	4.68	0.126	2.94	0.141
PORTUGAL	2.50	0.067		
USSR	14.10		1.61	
CHINA	1.58		0.50	
OTHERS	13.62		3.25	
TOTAL	72.96		26.92	
SUBTOTAL	37.14		20.89	

	AVERAGE SOYMEAL IMPORTS	WEIGHTS	AVERAGE MEAL-EQ. IMPORTS	WEIGHTS
MEXICO	0.13	0.018	0.85	0.036
EC-10	6.28	0.904	15.64	0.661
JAPAN	0.22	0.032	3.62	0.153
E. EUROPE	3.65		4.18	
TAIWAN			0.87	0.037
S. KOREA				
SPAIN	0.16	0.023	2.51	0.106
PORTUGAL	0.16	0.022	0.16	0.007
USSR	0.84		2.13	
CHINA			0.40	
OTHERS	3.36		5.96	
TOTAL	14.79		36.32	
SUBTOTAL	6.94		23.65	

TABLE A-9, CONT.

	AVERAGE SOYOIL IMPORTS	WEIGHTS	AVERAGE WHEAT IMPORTS	WEIGHTS
MEXICO			0.96	0.041
JAPAN			5.68	0.244
S.KOREA			1.94	0.083
INDIA	0.62	0.411		
PAKISTAN	0.24	0.160		
NIGERIA	0.08	0.050	1.50	0.065
COLOMBIA	0.10	0.065		
TURKEY	0.10	0.067		
MOROCCO	0.12	0.079	1.80	0.077
EGYPT			5.64	0.243
BRAZIL			4.11	0.177
IRAN	0.25	0.167	1.61	0.069
USSR	0.11		14.35	
CHINA	0.07		11.78	
OTHERS	1.12		36.47	
TOTAL	2.81		85.83	
SUBTOTAL	1.52		23.23	

TABLE A-10: EXCHANGE RATES IN FOREIGN CURRENCY PER DOLLAR

	MEXICO	JAPAN	TAIWAN	S.KOREA	SPAIN	PORTUGAL
1961	12.500	360.00	40.10	127.50	60.000	28.750
1962	12.500	360.00	40.10	130.00	60.000	28.750
1963	12.500	360.00	40.10	130.00	60.000	28.750
1964	12.500	360.00	40.10	213.85	60.000	28.750
1965	12.500	360.00	40.10	266.27	60.000	28.750
1966	12.500	360.00	40.10	271.33	60.000	28.750
1967	12.500	360.00	40.10	270.51	61.667	28.750
1968	12.500	360.00	40.10	276.65	70.000	28.750
1969	12.500	360.00	40.10	288.23	70.000	28.750
1970	12.500	360.00	40.10	310.57	70.000	28.750
1971	12.500	349.33	40.10	348.20	69.469	28.323
1972	12.500	303.17	40.10	392.90	64.271	27.011
1973	12.500	271.70	38.10	398.32	58.260	24.673
1974	12.500	292.08	38.05	400.43	57.687	25.408
1975	12.500	296.79	38.05	484.00	57.407	25.553
1976	15.426	296.55	38.05	484.00	66.903	30.223
1977	22.573	268.51	38.05	484.00	75.962	38.277
1978	22.767	210.44	36.05	484.00	76.668	43.940
1979	22.805	219.14	36.08	484.00	67.125	48.924
1980	22.951	226.74	36.06	607.43	71.702	50.062
1981	24.515	220.54	37.98	681.03	92.314	61.546
1982	56.402	249.05	39.60	731.13	109.858	79.473
1983	120.094	237.52	40.00	775.75	143.430	110.780

	INDIA	PAKISTAN	NIGERIA	COLOMBIA	TURKEY	MOROCCO
1961	4.7619	4.7619	0.71429	6.700	9.000	5.0605
1962	4.7619	4.7619	0.71429	6.962	9.000	5.0605
1963	4.7619	4.7619	0.71429	9.000	9.000	5.0605
1964	4.7619	4.7619	0.71429	9.000	9.000	5.0605
1965	4.7619	4.7619	0.71429	10.475	9.000	5.0605
1966	6.3591	4.7619	0.71429	13.500	9.000	5.0605
1967	7.5000	4.7619	0.71429	14.510	9.000	5.0605
1968	7.5000	4.7619	0.71429	16.291	9.000	5.0605
1969	7.5000	4.7619	0.71429	17.320	9.000	5.0605
1970	7.5000	4.7619	0.71429	18.443	11.500	5.0605
1971	7.5008	4.7619	0.71220	19.932	14.917	5.0500
1972	7.5945	8.9413	0.65790	21.866	14.150	4.5959
1973	7.7420	9.9943	0.65789	23.637	14.150	4.1069
1974	8.1016	9.9000	0.62929	26.064	13.927	4.3698
1975	8.3759	9.9000	0.61550	30.929	14.442	4.0525
1976	8.9604	9.9000	0.62660	34.694	16.053	4.4193
1977	8.7386	9.9000	0.64470	36.775	18.002	4.5034
1978	8.1928	9.9000	0.63527	39.095	24.282	4.1667
1979	8.1258	9.9000	0.60401	42.550	31.077	3.8991
1980	7.8629	9.9000	0.54678	47.280	76.038	3.9367
1981	8.6585	9.9000	0.61771	54.491	111.219	5.1723
1982	9.4551	11.8470	0.67322	64.102	162.553	6.0230
1983	10.0990	13.1170	0.72343	78.857	225.460	7.1113

TABLE A-10, CONT.

	EGYPT	BRAZIL	IRAN	EC-10
1961	0.34824	0.270	75.750	0.93694
1962	0.40651	0.388	75.750	0.93475
1963	0.43478	0.575	75.750	0.93475
1964	0.43478	1.253	75.750	0.93475
1965	0.43478	1.899	75.750	0.93475
1966	0.43478	2.220	75.750	0.93475
1967	0.43478	2.663	75.750	0.93914
1968	0.43478	3.396	75.750	0.97191
1969	0.43478	4.075	75.750	0.97828
1970	0.43478	4.594	75.750	0.97828
1971	0.43478	5.288	75.750	0.95438
1972	0.43478	5.934	75.750	0.89142
1973	0.39801	6.126	68.882	0.81189
1974	0.39131	6.790	67.625	0.83843
1975	0.39131	8.127	67.639	0.80593
1976	0.39131	10.673	70.222	0.89437
1977	0.39131	14.144	70.617	0.87635
1978	0.39131	18.070	70.475	0.78474
1979	0.70000	26.945	70.475	0.72955
1980	0.70000	52.714	70.615	0.71824
1981	0.70000	93.125	78.328	0.90810
1982	0.70000	179.510	83.603	1.03810
1983	0.70000	577.040	86.358	1.13071

TABLE A-11: PRICE INDICES

	WPI MEXICO	CPI JAPAN	WPI TAIWAN	WPI S.KOREA	WPI SPAIN	WPI PORTUGAL
1961	48.0	35.0	54.0	14.8	44.0	45.0
1962	49.0	37.3	54.0	16.2	47.0	45.0
1963	49.0	40.2	54.0	19.5	49.0	46.0
1964	51.0	41.7	54.3	26.2	50.0	46.0
1965	52.0	44.5	51.8	28.8	55.0	48.0
1966	53.0	46.7	52.5	31.4	56.0	50.0
1967	54.0	48.6	53.8	33.4	57.0	51.0
1968	55.0	51.2	55.4	36.1	58.0	54.0
1969	57.0	53.9	55.3	38.5	60.0	56.0
1970	60.0	58.0	56.8	42.1	60.0	57.0
1971	62.0	61.6	56.8	45.7	64.0	59.0
1972	64.0	64.3	59.4	52.0	68.0	62.0
1973	74.0	71.9	72.9	55.6	75.0	69.0
1974	91.0	89.4	102.5	79.0	92.0	89.0
1975	100.0	100.0	97.3	100.0	100.0	100.0
1976	122.0	109.3	100.0	112.1	113.0	119.0
1977	173.0	118.1	102.8	122.2	136.0	154.0
1978	200.0	122.6	106.4	136.4	159.0	202.0
1979	236.0	127.0	121.1	162.1	182.0	262.0
1980	294.0	137.2	147.2	225.1	213.0	279.0
1981	366.0	143.9	158.4	271.0	247.0	339.0
1982	571.4	147.7	177.1	283.6	277.1	416.1
1983	1184.8	150.3	179.0	284.3	316.4	520.6

	WPI INDIA	WPI PAKISTAN	CPI NIGERIA	WPI COLOMBIA	CPI TURKEY	CPI MOROCCO
1961	32.9	33.1	37.0	13.8	32.9	58.0
1962	33.3	33.7	39.0	14.1	33.9	61.0
1963	34.6	34.0	38.0	17.9	34.9	64.0
1964	38.2	34.5	39.0	21.0	35.5	67.0
1965	41.4	36.9	40.0	22.7	37.6	69.0
1966	46.3	40.4	44.0	26.7	39.3	68.0
1967	53.3	42.6	42.0	28.5	41.9	68.0
1968	53.1	42.6	42.0	30.3	42.1	68.0
1969	54.2	44.6	46.0	32.3	45.5	70.0
1970	56.3	45.0	53.0	34.8	48.5	71.0
1971	59.1	47.4	61.0	38.7	56.1	74.0
1972	64.3	52.3	63.0	45.8	62.8	77.0
1973	74.9	66.6	67.0	58.6	72.4	79.0
1974	96.2	81.5	75.0	79.7	83.9	93.0
1975	100.0	100.0	100.0	100.0	100.0	100.0
1976	98.1	108.0	124.0	122.9	117.3	109.0
1977	105.5	118.0	148.0	155.7	149.1	122.0
1978	105.2	124.1	176.0	183.2	216.7	134.0
1979	117.2	135.6	196.0	234.1	343.8	145.0
1980	141.0	149.8	218.0	290.8	722.6	159.0
1981	158.3	169.3	263.0	360.7	986.9	179.0
1982	162.2	176.5	282.8	453.1	1309.3	197.9
1983	174.9	188.7	339.4	551.7	1686.9	210.2

TABLE A-11, CONT.

	WPI EGYPT	WPI BRAZIL	WPI IRAN	GDP DEFLATOR EC-9	WPI U.S.
1961	57.0	1.5	55.0	28.2	94.5
1962	57.0	2.3	55.0	30.3	94.8
1963	56.0	4.1	56.0	31.5	94.5
1964	59.0	7.8	58.0	32.8	94.7
1965	63.0	11.7	60.0	34.3	96.6
1966	68.0	16.0	60.0	35.5	99.8
1967	73.0	20.1	60.0	36.1	100.0
1968	71.0	24.9	60.0	37.2	102.5
1969	71.0	29.9	62.0	39.3	106.5
1970	75.0	36.6	63.0	42.1	110.4
1971	75.0	43.9	67.0	45.3	114.0
1972	76.0	52.1	71.0	48.3	119.1
1973	81.0	60.9	79.0	51.8	134.7
1974	93.0	78.6	93.0	57.3	160.1
1975	100.0	100.0	100.0	64.3	174.9
1976	108.0	143.3	109.0	70.5	183.0
1977	118.0	204.1	128.0	76.4	194.2
1978	135.0	280.8	141.0	82.4	209.3
1979	148.0	437.8	161.0	89.8	235.6
1980	181.0	903.9	211.0	100.0	268.8
1981	195.0	1881.7	260.0	109.9	292.4
1982	213.2	3613.4	293.1	120.4	298.5
1983	247.2	9693.2	305.0	129.2	302.3

TABLE A-12: REAL EXCHANGE RATES, CALENDAR YEARS

	MEXICO	JAPAN	TAIWAN	S.KOREA	SPAIN	PORTUGAL
1961	117.28	218.81	106.57	112.24	142.41	125.18
1962	115.25	205.97	106.91	104.88	133.75	125.57
1963	114.88	190.50	106.57	86.85	127.88	122.46
1964	110.61	184.04	106.26	106.56	125.59	122.71
1965	110.66	175.92	113.67	123.13	116.46	119.96
1966	112.17	173.19	115.72	118.89	118.17	118.98
1967	110.31	166.75	113.11	111.66	119.56	116.88
1968	111.02	162.24	112.59	108.29	136.71	113.14
1969	111.30	160.13	117.26	109.92	137.31	113.36
1970	109.61	154.26	118.34	112.28	142.34	115.45
1971	109.53	145.53	122.18	119.75	136.75	113.46
1972	110.86	126.41	122.20	124.06	124.40	107.58
1973	108.43	114.58	106.88	133.04	115.64	99.86
1974	104.80	117.75	90.25	111.88	110.94	94.76
1975	104.19	116.85	103.86	116.70	110.96	92.66
1976	110.27	111.77	105.74	108.93	119.74	96.36
1977	120.76	99.39	109.20	106.04	119.87	100.08
1978	113.54	80.87	107.70	102.39	111.53	94.39
1979	108.50	91.51	106.59	96.98	96.03	91.21
1980	100.00	100.00	100.00	100.00	100.00	100.00
1981	93.34	100.88	106.46	101.30	120.77	110.06
1982	140.43	113.27	101.34	106.09	130.77	118.20
1983	146.03	107.51	102.59	113.73	151.43	133.36

	INDIA	PAKISTAN	NIGERIA	COLOMBIA	TURKEY	MOROCCO
1961	91.25	76.48	270.59	104.98	91.39	123.89
1962	90.44	75.49	257.53	107.11	88.98	118.17
1963	86.76	74.52	263.47	108.72	86.16	112.28
1964	78.75	73.55	257.26	92.87	84.88	107.48
1965	74.12	70.26	255.86	102.00	81.75	106.45
1966	91.44	66.25	240.31	115.46	80.80	111.60
1967	93.87	62.86	252.25	116.50	75.94	111.82
1968	96.58	64.54	258.56	126.10	77.47	114.62
1969	98.31	64.05	245.29	130.67	74.48	115.69
1970	98.11	65.82	220.69	133.88	92.55	118.23
1971	96.52	64.44	197.42	134.35	107.17	116.90
1972	93.84	114.55	184.48	130.11	94.87	106.81
1973	92.89	113.83	196.18	124.32	93.07	105.22
1974	89.95	109.54	199.25	119.80	93.96	113.03
1975	97.73	97.46	159.67	123.78	89.30	106.50
1976	111.51	94.45	137.16	118.21	88.54	111.49
1977	107.31	91.71	125.48	104.95	82.90	107.71
1978	108.74	93.96	112.05	102.20	82.91	97.79
1979	108.97	96.79	107.69	97.99	75.29	95.20
1980	100.00	100.00	100.00	100.00	100.00	100.00
1981	106.70	96.26	101.86	101.07	116.50	126.95
1982	116.12	112.81	105.40	96.62	131.02	136.48
1983	116.43	118.30	95.59	98.88	142.84	153.68

TABLE A-12, CONT.

	EGYPT	BRAZIL	IRAN	EC-10
1961	55.54	108.51	144.68	162.53
1962	65.04	102.02	145.14	151.37
1963	70.58	84.54	142.10	145.40
1964	67.13	97.04	137.49	139.58
1965	64.13	100.02	135.57	136.48
1966	61.38	88.33	140.06	136.28
1967	57.29	84.52	140.34	134.78
1968	60.38	89.18	143.85	138.55
1969	62.74	92.59	144.64	137.42
1970	61.56	88.40	147.56	132.88
1971	63.57	87.60	143.27	124.42
1972	65.54	86.53	141.25	113.88
1973	63.67	86.44	130.56	109.36
1974	64.80	88.23	129.41	121.41
1975	65.83	90.67	131.50	113.48
1976	63.78	86.95	131.06	120.26
1977	61.95	85.85	119.10	115.42
1978	58.36	85.92	116.29	103.20
1979	107.19	92.50	114.64	99.17
1980	100.00	100.00	100.00	100.00
1981	100.97	92.31	97.92	125.13
1982	94.29	94.60	94.66	133.28
1983	82.33	114.80	95.15	137.06

TABLE A-13: REAL EXCHANGE RATES, CROP YEARS

	CORN	BEANS	MEAL	SOYOIL	WHEAT	MEAL-EQ.	1/SDROCT 1980=100
1961	148.17	140.49	131.22	104.95	134.81	137.70	120.80
1962	139.77	133.37	125.04	102.82	129.20	130.85	120.80
1963	135.58	128.35	120.17	97.89	125.64	125.88	120.80
1964	132.58	124.38	116.85	94.62	125.18	122.11	120.80
1965	131.20	123.26	116.00	99.55	122.65	121.07	120.80
1966	128.68	121.76	114.92	102.02	119.11	119.69	120.80
1967	128.72	123.68	116.86	104.55	118.10	121.62	120.80
1968	128.66	124.00	116.94	105.54	118.69	121.87	120.80
1969	126.94	121.81	114.05	106.40	116.98	119.47	120.80
1970	122.69	116.42	107.99	105.34	113.70	113.88	120.80
1971	113.84	107.23	99.55	107.81	109.32	104.91	113.32
1972	106.09	99.99	94.19	107.10	105.07	98.24	104.14
1973	104.78	102.21	99.98	105.41	103.75	101.54	100.33
1974	103.99	100.86	97.63	104.38	102.81	99.88	98.94
1975	104.67	102.88	100.14	107.03	99.84	102.06	104.14
1976	101.79	100.81	98.63	103.45	95.24	100.15	104.14
1977	92.51	91.71	89.95	101.10	88.69	91.18	98.69
1978	89.52	87.32	84.94	100.15	91.95	86.60	93.57
1979	91.84	88.11	84.86	97.16	99.31	87.13	92.57
1980	100.00	100.00	100.00	100.00	100.00	100.00	100.00
1981	110.00	110.63	110.73	106.74	102.93	110.66	107.38
1982	115.02	115.67	115.30	110.67	105.79	115.56	112.37

TABLE A-14: DERIVATION OF WHECSPM (WHEAT SUPPLIES IN NON-SOCIALIST, NON-WHEAT EXPORTING COUNTRIES)

WHEAT PRODUCTION, IN MN. M.T.

	WORLD	USSR	CHINA	U.S.	EC-10	CANADA
1961	224.73	66.48	14.25	33.56	28.22	7.71
1962	251.79	70.78	16.67	29.72	36.41	15.39
1963	233.89	49.69	18.48	31.22	29.84	19.69
1964	270.38	74.40	20.84	34.92	36.01	16.35
1965	263.27	59.69	25.22	34.92	37.53	17.67
1966	306.72	100.50	25.28	35.79	32.52	22.52
1967	297.53	77.42	28.49	41.01	37.92	16.14
1968	330.84	93.39	27.46	42.38	38.33	17.69
1969	309.92	79.92	27.29	39.27	37.43	18.27
1970	313.73	99.73	29.19	36.80	36.68	9.02
1971	350.91	98.76	32.58	44.05	42.08	14.41
1972	343.47	85.99	35.99	42.08	43.22	14.51
1973	373.00	109.78	35.23	46.56	43.13	16.16
1974	360.19	83.91	40.87	48.50	47.67	13.30
1975	356.42	66.22	45.31	57.89	40.18	17.08
1976	421.26	96.88	50.39	58.49	41.47	23.59
1977	384.08	92.16	41.08	55.68	40.21	19.86
1978	446.77	120.82	53.84	48.34	50.26	21.15
1979	424.35	90.20	62.73	58.08	48.84	17.19
1980	442.52	98.18	55.21	64.62	55.07	19.16
1981	450.20	80.00	59.64	76.18	54.38	24.80
1982	480.61	86.00	68.42	76.54	59.80	26.79

	AUS.	ARG.
1961	6.73	5.73
1962	8.35	5.70
1963	8.93	8.94
1964	10.04	11.26
1965	7.07	6.08
1966	12.70	6.25
1967	7.55	7.32
1968	14.80	5.74
1969	10.55	7.02
1970	7.89	4.92
1971	8.61	5.68
1972	6.59	6.90
1973	11.99	6.56
1974	11.36	5.97
1975	11.98	8.57
1976	11.67	11.00
1977	9.37	5.70
1978	18.09	8.10
1979	16.19	8.10
1980	10.86	7.78
1981	16.36	8.30
1982	8.90	14.50

TABLE A-14, CONT.

BEGINNING & ENDING WHEAT STOCKS, IN MN. M.T.

	WORLD		**	USSR		*
	BEGIN	END	CHANGE **	BEGIN	END	CHANGE *
1961	81.76	70.14	-11.61	3.00	0.00	-3.00
1962	70.14	73.86	3.71	0.00	1.00	1.00
1963	73.86	67.66	-6.20	1.00	4.00	3.00
1964	67.66	73.38	5.72	4.00	14.00	10.00
1965	73.38	55.07	-18.31	14.00	5.00	-9.00
1966	55.07	82.02	26.95	5.00	32.00	27.00
1967	82.02	90.52	8.50	32.00	31.00	-1.00
1968	90.52	114.89	24.38	31.00	33.00	2.00
1969	114.89	97.63	-17.27	33.00	14.00	-19.00
1970	97.63	74.10	-23.53	14.00	6.00	-8.00
1971	74.10	80.77	6.67	6.00	9.00	3.00
1972	80.77	62.39	-18.38	9.00	11.00	2.00
1973	62.39	70.05	7.66	11.00	24.00	13.00
1974	70.05	63.82	-6.23	24.00	13.00	-11.00
1975	63.82	64.08	0.26	13.00	2.00	-11.00
1976	64.08	99.46	35.38	2.00	10.00	8.00
1977	99.46	83.94	-15.52	10.00	1.00	-9.00
1978	83.94	100.57	16.63	1.00	19.00	18.00
1979	100.57	80.83	-19.74	19.00	6.00	-13.00
1980	80.83	80.58	-0.25	6.00	5.00	-1.00
1981	80.58	85.08	4.50	5.00	2.00	-3.00
1982	85.08	96.60	11.52	2.00	2.00	0.00

*		U.S.	**		EC-10	*
*	BEGIN	END	CHANGE **	BEGIN	END	CHANGE *
1961	40.88	38.67	-2.20	7.66	7.45	-0.21
1962	38.67	34.56	-4.11	7.45	9.53	2.08
1963	34.56	27.05	-7.51	9.53	7.34	-2.19
1964	27.05	25.07	-1.99	7.34	7.08	-0.26
1965	25.07	17.96	-7.10	7.08	8.50	1.42
1966	17.96	13.96	-4.00	8.50	6.74	-1.76
1967	13.96	17.15	3.18	6.74	9.00	2.26
1968	17.15	24.60	7.46	9.00	8.77	-0.23
1969	24.60	26.75	2.15	8.77	5.21	-3.56
1970	26.75	22.40	-4.35	5.21	5.69	0.48
1971	22.40	26.81	4.41	5.69	7.18	1.49
1972	26.81	16.25	-10.56	7.18	5.88	-1.30
1973	16.25	9.25	-7.00	5.88	7.54	1.66
1974	9.25	11.84	2.59	7.54	10.03	2.49
1975	11.84	18.13	6.29	10.03	7.68	-2.35
1976	18.13	30.29	12.17	7.68	7.40	-0.28
1977	30.29	32.06	1.77	7.40	6.22	-1.19
1978	32.06	25.15	-6.91	6.22	9.13	2.91
1979	25.15	24.55	-0.60	9.13	8.00	-1.12
1980	24.55	26.92	2.37	8.00	8.82	0.82
1981	26.92	31.68	4.76	8.82	7.72	-1.10
1982	31.68	41.94	10.26	7.72	11.26	3.54

TABLE A-14, CONT.

	CANADA			AUS.		
	BEGIN	END	CHANGE	BEGIN	END	CHANGE
1961	16.56	10.64	-5.91	0.99	0.81	-0.18
1962	10.64	13.26	2.62	0.81	0.96	0.15
1963	13.26	12.50	-0.76	0.96	0.88	-0.08
1964	12.50	13.96	1.46	0.88	0.99	0.11
1965	13.96	11.43	-2.53	0.99	0.77	-0.22
1966	11.43	15.56	4.13	0.77	2.52	1.74
1967	15.56	18.30	2.74	2.52	1.74	-0.78
1968	18.30	23.18	4.88	1.74	7.59	5.85
1969	23.18	27.45	4.27	7.59	7.55	-0.04
1970	27.45	19.98	-7.47	7.55	3.67	-3.88
1971	19.98	15.89	-4.09	3.67	1.58	-2.08
1972	15.89	9.95	-5.94	1.58	0.57	-1.02
1973	9.95	10.09	0.14	0.57	1.98	1.42
1974	10.09	8.04	-2.05	1.98	1.66	-0.32
1975	8.04	8.22	0.18	1.66	2.67	1.01
1976	8.22	13.32	5.10	2.67	2.07	-0.60
1977	13.32	12.12	-1.20	2.07	0.82	-1.26
1978	12.12	14.91	2.79	0.82	4.63	3.81
1979	14.91	10.72	-4.19	4.63	4.36	-0.27
1980	10.72	8.57	-2.15	4.36	4.57	0.20
1981	8.57	9.76	1.19	4.57	4.93	0.36
1982	9.76	10.10	0.34	4.93	2.40	-2.53

	ARG.		
	BEGIN	END	CHANGE
1961	0.76	0.24	-0.52
1962	0.24	0.50	0.26
1963	0.50	2.21	1.71
1964	2.21	3.34	1.13
1965	3.34	0.18	-3.17
1966	0.18	0.25	0.07
1967	0.25	1.01	0.76
1968	1.01	0.85	-0.16
1969	0.85	0.78	-0.07
1970	0.78	0.68	-0.11
1971	0.68	0.37	-0.31
1972	0.37	0.27	-0.10
1973	0.27	1.03	0.76
1974	1.03	0.71	-0.31
1975	0.71	0.74	0.03
1976	0.74	1.60	0.86
1977	1.60	1.18	-0.42
1978	1.18	1.10	-0.07
1979	1.10	0.45	-0.66
1980	0.45	0.41	-0.04
1981	0.41	0.78	0.36
1982	0.78	0.98	0.20

TABLE A-14, CONT.

	IMPORTER			
	PROD.	BEG. ST.	END. ST.	WHECSPM
1961	62.05	11.91	12.33	61.634
1962	68.77	12.33	14.04	67.059
1963	67.11	14.04	13.67	67.485
1964	66.57	13.67	8.94	71.293
1965	75.10	8.94	11.23	72.816
1966	71.17	11.23	10.99	71.404
1967	81.68	10.99	12.32	80.357
1968	91.05	12.32	16.90	86.474
1969	90.19	16.90	15.89	91.196
1970	89.50	15.89	15.69	89.702
1971	104.74	15.69	19.94	100.487
1972	108.18	19.94	18.48	109.640
1973	103.59	18.48	16.16	105.911
1974	108.63	16.16	18.54	106.251
1975	109.18	18.54	24.64	103.082
1976	127.79	24.64	34.77	117.652
1977	120.02	34.77	30.56	124.236
1978	126.18	30.56	26.65	130.081
1979	123.02	26.65	26.74	122.932
1980	131.64	26.74	26.29	132.089
1981	130.53	26.29	28.22	128.602
1982	139.66	28.22	27.93	139.954

TABLE A-15: DERIVATION OF RICCSPM (RICE SUPPLIES IN NON-SOCIALIST, NON-WHEAT EXPORTING COUNTRIES)

RICE PRODUCTION, IN MN. M.T.

	WORLD	USSR	CHINA	U.S.	EC-10	AUS.	ARG.
1961	137.67	0.16	37.55	1.76	0.63	0.10	0.12
1962	145.06	0.18	44.09	2.13	0.60	0.10	0.12
1963	159.13	0.24	51.64	2.30	0.52	0.10	0.12
1964	170.77	0.31	58.10	2.39	0.59	0.11	0.17
1965	163.38	0.38	61.41	2.50	0.49	0.13	0.11
1966	169.89	0.46	66.77	2.81	0.55	0.15	0.14
1967	179.58	0.58	65.58	2.95	0.66	0.16	0.18
1968	185.98	0.69	66.17	3.46	0.57	0.18	0.22
1969	190.61	0.72	66.55	3.00	0.73	0.18	0.27
1970	202.05	0.83	76.99	2.80	0.68	0.21	0.19
1971	204.62	0.93	80.64	2.84	0.72	0.18	0.19
1972	197.89	1.07	79.35	2.83	0.61	0.22	0.17
1973	215.12	1.15	85.22	3.03	0.83	0.29	0.21
1974	213.29	1.24	86.73	3.67	0.83	0.28	0.23
1975	230.74	1.31	87.89	4.10	0.80	0.30	0.20
1976	222.56	1.30	88.06	3.78	0.71	0.38	0.21
1977	237.62	1.44	90.00	3.12	0.57	0.35	0.20
1978	250.40	1.37	95.85	4.27	0.75	0.50	0.20
1979	243.01	1.56	100.63	4.32	0.87	0.44	0.17
1980	256.08	1.81	97.93	4.84	0.75	0.52	0.19
1981	264.76	1.56	100.77	5.97	0.68	0.61	0.23
1982	269.62	1.56	112.87	4.95	0.70	0.38	0.18

TABLE A-15, CONT.

BEGINNING & ENDING RICE STOCKS, IN MN. M.T.

	WORLD BEGIN	WORLD END	** CHANGE **	U.S. BEGIN	U.S. END	* CHANGE *
1961	7.45	6.37	-1.08	0.33	0.17	-0.16
1962	6.37	6.35	-0.01	0.17	0.25	0.08
1963	6.35	8.02	1.66	0.25	0.25	-0.01
1964	8.02	10.74	2.72	0.25	0.25	0.01
1965	10.74	10.98	0.25	0.25	0.27	0.02
1966	10.98	9.51	-1.47	0.27	0.28	0.01
1967	9.51	12.43	2.92	0.28	0.22	-0.06
1968	12.43	16.04	3.61	0.22	0.53	0.31
1969	16.04	17.54	1.50	0.53	0.54	.00
1970	17.54	16.76	-0.78	0.54	0.61	0.07
1971	16.76	14.34	-2.41	0.61	0.37	-0.24
1972	14.34	9.78	-4.56	0.37	0.17	-0.21
1973	9.78	11.49	1.71	0.17	0.26	0.09
1974	11.49	9.42	-2.07	0.26	0.23	-0.02
1975	9.42	18.23	8.81	0.23	1.21	0.97
1976	18.23	16.63	-1.60	1.21	1.27	0.07
1977	16.63	21.25	4.63	1.27	0.88	-0.40
1978	21.25	25.92	4.66	0.88	1.01	0.14
1979	25.92	21.23	-4.69	1.01	0.84	-0.17
1980	21.23	20.16	-1.06	0.84	0.55	-0.30
1981	20.16	19.11	-1.05	0.55	1.60	1.06
1982	19.11	14.91	-4.21	1.60	2.30	0.70

	* * BEGIN	EC-10 END	** CHANGE **	AUS. BEGIN.	AUS. END	* CHANGE *
1961	0.12	0.14	0.02	0.03	0.04	.00
1962	0.14	0.13	.00	0.04	0.04	0.01
1963	0.13	0.16	0.03	0.04	0.05	.00
1964	0.16	0.14	-0.02	0.05	0.06	0.01
1965	0.14	0.15	0.01	0.06	0.06	.00
1966	0.15	0.16	0.02	0.06	0.07	0.01
1967	0.16	0.16	.00	0.07	0.07	.00
1968	0.16	0.18	0.03	0.07	0.07	.00
1969	0.18	0.22	0.04	0.07	0.09	0.02
1970	0.22	0.24	0.02	0.09	0.06	-0.03
1971	0.24	0.16	-0.09	0.06	0.02	-0.04
1972	0.16	0.19	0.03	0.02	0.01	-0.01
1973	0.19	0.33	0.14	0.01	0.04	0.04
1974	0.33	0.16	-0.17	0.04	0.09	0.04
1975	0.16	0.16	.00	0.09	0.04	-0.05
1976	0.16	0.15	-0.01	0.04	0.10	0.07
1977	0.15	0.20	0.05	0.10	0.14	0.04
1978	0.20	0.19	-0.01	0.14	0.15	0.01
1979	0.19	0.11	-0.08	0.15	0.24	0.08
1980	0.11	0.17	0.06	0.24	0.23	-0.01
1981	0.17	0.21	0.04	0.23	0.06	-0.17
1982	0.21	0.16	-0.05	0.06	0.11	0.05

TABLE A-15, CONT.

	* BEGIN	ARG. END	CHANGE *
1961	0.02	0.01	-0.01
1962	0.01	0.02	0.02
1963	0.02	0.04	0.02
1964	0.04	0.06	0.02
1965	0.06	0.03	-0.03
1966	0.03	0.03	0.00
1967	0.03	0.05	0.03
1968	0.05	0.08	0.03
1969	0.08	0.10	0.02
1970	0.10	0.06	-0.05
1971	0.06	0.06	.00
1972	0.06	0.06	0.00
1973	0.06	0.07	0.02
1974	0.07	0.10	0.03
1975	0.10	0.05	-0.05
1976	0.05	0.02	-0.03
1977	0.02	0.01	-0.01
1978	0.01	0.03	0.01
1979	0.03	.00	-0.02
1980	.00	.00	0.00
1981	.00	0.02	0.02
1982	0.02	0.02	0.00

=====WHEAT-IMPORTER======

	RICE PROD.	RICE BEG. ST.	RICE END. ST.	RICCSPM
1961	97.35	6.95	6.01	98.286
1962	97.85	6.01	5.90	97.961
1963	104.20	5.90	7.52	102.581
1964	109.11	7.52	10.23	106.401
1965	98.37	10.23	10.48	98.118
1966	99.00	10.48	8.98	100.502
1967	109.47	8.98	11.93	106.519
1968	114.69	11.93	15.17	111.447
1969	119.17	15.17	16.59	117.753
1970	120.35	16.59	15.79	121.153
1971	119.12	15.79	13.74	121.166
1972	113.64	13.74	9.37	118.013
1973	124.39	9.37	10.79	122.963
1974	120.31	10.79	8.84	122.263
1975	136.15	8.84	16.78	128.212
1976	128.12	16.78	15.08	129.821
1977	141.94	15.08	20.02	136.994
1978	147.45	20.02	24.53	142.940
1979	135.02	24.53	20.04	139.518
1980	150.04	20.04	19.22	150.859
1981	154.94	19.22	17.22	156.937
1982	148.98	17.22	12.31	153.892

TABLE A-16: DERIVATION OF CORCSPM (CORN SUPPLIES IN NON-SOCIALIST, NON-CORN EXPORTING COUNTRIES)

CORN PRODUCTION, IN MN. M.T.

	WORLD	USSR	CHINA	U.S.	S.AFRICA	ARG.	THAI.
1961	200.16	17.11	15.98	91.39	6.00	5.22	0.60
1962	203.00	15.47	19.09	91.61	6.10	4.36	0.67
1963	213.71	11.14	20.17	102.09	4.28	5.35	0.86
1964	210.97	13.85	21.34	88.50	4.58	5.14	0.94
1965	221.87	8.03	22.96	104.22	5.12	7.04	1.02
1966	243.32	8.42	24.07	105.86	9.76	8.00	1.12
1967	256.07	9.16	26.93	123.46	5.32	6.56	1.32
1968	246.92	8.83	24.68	113.02	5.34	6.86	1.51
1969	263.34	11.95	24.98	119.06	6.13	9.36	1.70
1970	259.44	9.43	28.20	105.47	8.60	9.93	1.94
1971	296.40	8.60	27.70	143.42	9.48	5.86	2.30
1972	291.13	9.83	25.52	141.73	4.16	9.00	1.32
1973	317.38	13.22	29.86	144.04	11.11	9.90	2.35
1974	285.97	12.10	33.23	119.42	9.14	7.70	2.50
1975	322.18	7.33	35.64	148.36	7.31	5.86	2.86
1976	350.26	10.14	48.00	159.74	9.73	8.30	2.68
1977	359.41	10.98	49.50	165.23	10.20	9.70	1.68
1978	384.70	8.95	55.90	184.61	8.27	9.00	2.79
1979	418.04	8.40	60.04	201.66	10.79	6.40	3.30
1980	401.05	9.45	62.60	168.79	14.65	12.90	3.20
1981	434.82	8.00	59.21	208.33	8.36	9.60	4.35
1982	434.28	13.50	60.30	212.34	4.08	9.00	3.45

TABLE A-16, CONT.

BEGINNING & ENDING CORN STOCKS, IN MN. M.T.

	WORLD			U.S.		
	BEGIN	END	CHANGE	BEGIN	END	CHANGE
1961	61.61	53.31	-8.30	51.21	41.99	-9.22
1962	53.31	45.60	-7.70	41.99	34.67	-7.31
1963	45.60	50.40	4.79	34.67	39.04	4.37
1964	50.40	41.45	-8.95	39.04	29.14	-9.90
1965	41.45	32.98	-8.48	29.14	21.38	-7.76
1966	32.98	36.97	3.99	21.38	20.99	-0.39
1967	36.97	43.70	6.74	20.99	29.69	8.70
1968	43.70	40.31	-3.39	29.69	28.41	-1.28
1969	40.31	37.71	-2.60	28.41	25.53	-2.87
1970	37.71	30.37	-7.34	25.53	16.84	-8.69
1971	30.37	41.15	10.78	16.84	28.60	11.76
1972	41.15	30.34	-10.80	28.60	17.98	-10.62
1973	30.34	28.27	-2.07	17.98	12.29	-5.69
1974	28.27	24.31	-3.96	12.29	9.17	-3.12
1975	24.31	25.72	1.40	9.17	10.16	0.99
1976	25.72	39.91	14.19	10.16	22.50	12.34
1977	39.91	45.39	5.48	22.50	28.22	5.72
1978	45.39	47.76	2.37	28.22	33.12	4.90
1979	47.76	57.94	10.18	33.12	41.07	7.95
1980	57.94	49.84	-8.10	41.07	26.26	-14.81
1981	49.84	75.93	26.08	26.26	55.42	29.16
1982	75.93	95.84	19.92	55.42	79.76	24.34

	S.AFRICA			ARGENTINA		
	BEGIN	END	CHANGE	BEGIN	END	CHANGE
1961	1.11	1.09	-0.02	0.07	0.04	-0.03
1962	1.09	0.86	-0.23	0.04	0.16	0.12
1963	0.86	0.58	-0.28	0.16	0.07	-0.09
1964	0.58	0.27	-0.31	0.07	0.10	0.03
1965	0.27	0.68	0.41	0.10	0.08	-0.02
1966	0.68	3.07	2.40	0.08	0.18	0.10
1967	3.07	0.83	-2.24	0.18	0.14	-0.04
1968	0.83	0.87	0.04	0.14	0.13	-0.01
1969	0.87	0.75	-0.12	0.13	0.11	-0.02
1970	0.75	1.63	0.87	0.11	0.62	0.51
1971	1.63	2.01	0.38	0.62	0.09	-0.53
1972	2.01	0.47	-1.54	0.09	0.45	0.36
1973	0.47	2.02	1.55	0.45	0.18	-0.27
1974	2.02	1.58	-0.44	0.18	0.76	0.58
1975	1.58	0.99	-0.59	0.76	0.52	-0.25
1976	0.99	1.64	0.65	0.52	0.18	-0.33
1977	1.64	2.12	0.48	0.18	0.43	0.25
1978	2.12	1.36	-0.76	0.43	0.17	-0.26
1979	1.36	1.95	0.59	0.17	0.11	-0.06
1980	1.95	4.55	2.59	0.11	0.21	0.10
1981	4.55	1.32	-3.22	0.21	0.55	0.34
1982	1.32	0.21	-1.11	0.55	0.19	-0.36

TABLE A-16, CONT.

	THAILAND		
	BEGIN	END	CHANGE
1961	0.39	0.38	-0.01
1962	0.38	0.31	-0.07
1963	0.31	0.23	-0.09
1964	0.23	0.24	0.01
1965	0.24	0.10	-0.14
1966	0.10	0.01	-0.09
1967	0.01	0.05	0.05
1968	0.05	0.17	0.11
1969	0.17	0.19	0.02
1970	0.19	0.25	0.06
1971	0.25	0.15	-0.09
1972	0.15	0.14	-0.02
1973	0.14	0.01	-0.12
1974	0.01	0.03	0.02
1975	0.03	0.14	0.11
1976	0.14	0.05	-0.09
1977	0.05	0.03	-0.02
1978	0.03	0.05	0.02
1979	0.05	0.15	0.10
1980	0.15	0.10	-0.05
1981	0.10	0.14	0.04
1982	0.14	0.30	0.15

	IMPORTER			
	PROD.	BEG. ST.	END. ST.	CORCSPM
1961	63.86	8.82	9.81	62.874
1962	65.71	9.81	9.60	65.913
1963	69.82	9.60	10.47	68.943
1964	76.62	10.47	11.71	75.388
1965	73.49	11.71	10.74	74.456
1966	86.09	10.74	12.71	84.114
1967	83.33	12.71	12.99	83.049
1968	86.68	12.99	10.73	88.934
1969	90.16	10.73	11.13	89.763
1970	95.87	11.13	11.04	95.966
1971	99.04	11.04	10.30	99.784
1972	99.57	10.30	11.31	98.561
1973	106.91	11.31	13.77	104.446
1974	101.87	13.77	12.77	102.867
1975	114.82	12.77	13.91	113.676
1976	111.68	13.91	15.54	110.051
1977	112.12	15.54	14.59	113.072
1978	115.18	14.59	13.05	116.712
1979	127.46	13.05	14.66	125.858
1980	129.46	14.66	18.72	125.393
1981	136.98	18.72	18.49	137.203
1982	131.62	18.49	15.39	134.729

TABLE A-17: DATA FOR WHEAT EQUATION

	WHECXT	WHERPM	WHEMINC	WHECSPM	RICCSPM	WHEMGMT	CORRPWM
1961	25.637	180.946	38.345	61.634	98.286	11.410	166.561
1962	19.477	195.088	40.414	67.059	97.261	11.257	162.527
1963	29.123	181.914	42.781	67.485	102.581	11.228	156.729
1964	29.090	150.697	45.247	71.293	106.401	13.233	162.807
1965	30.920	110.382	47.764	72.816	98.118	12.837	154.101
1966	35.427	176.327	50.266	71.404	100.502	7.605	157.179
1967	31.054	160.012	52.887	80.357	106.519	9.202	127.739
1968	31.551	125.960	56.177	86.474	111.447	5.602	130.450
1969	33.906	120.937	59.785	91.196	117.753	5.733	133.096
1970	40.472	122.760	63.298	89.702	121.153	5.150	143.347
1971	37.319	118.919	66.930	100.487	121.166	5.189	107.811
1972	43.678	142.002	70.884	109.640	118.013	3.132	138.838
1973	52.159	277.997	75.253	105.911	122.963	1.309	192.231
1974	51.431	249.753	78.803	106.251	122.263	2.659	197.531
1975	55.942	197.323	82.484	103.082	128.212	2.858	150.800
1976	54.991	137.064	87.111	117.652	129.821	2.089	115.622
1977	54.691	101.973	90.904	124.236	136.994	3.550	94.694
1978	55.096	122.121	94.431	130.081	142.940	3.275	98.764
1979	63.881	148.350	98.202	122.932	139.518	2.965	105.934
1980	56.874	138.525	100.982	132.089	150.859	2.637	118.019
1981	62.602	126.121	102.170	128.602	156.937	2.692	92.529
1982	58.968	124.088	102.604	139.954	153.892	1.853	101.089
1983						2.449	

	PETRPWM	RICRPWM	WHEPSDR	CORPSDR	RICPSDR	YCAPIND
1961	5.579	555.40	47.019	43.293	144.362	52.78
1962	5.463	568.85	52.896	44.080	154.280	54.28
1963	5.162	508.42	50.692	43.686	141.717	54.33
1964	4.772	476.90	42.611	46.048	134.885	56.40
1965	4.702	509.60	32.693	45.654	150.974	55.94
1966	4.489	549.42	54.733	48.803	170.590	56.75
1967	4.284	600.74	50.765	40.538	190.646	58.27
1968	4.096	574.95	41.031	42.506	187.340	61.83
1969	3.928	505.67	41.472	45.654	173.455	63.65
1970	3.790	478.63	44.815	52.345	174.777	66.05
1971	4.519	401.38	43.970	39.874	148.450	68.56
1972	4.819	631.90	54.467	53.268	242.440	70.46
1973	6.067	1156.70	120.512	83.356	501.575	74.82
1974	18.694	728.90	123.046	97.345	359.210	78.36
1975	17.816	576.84	112.733	86.179	329.650	81.35
1976	17.363	424.63	86.450	72.946	267.900	85.42
1977	16.943	544.73	69.925	64.952	373.636	89.97
1978	15.127	398.22	84.791	68.593	276.567	95.34
1979	19.250	476.70	106.400	76.000	342.000	98.10
1980	30.622	465.18	118.897	101.325	399.384	100.00
1981	31.337	531.22	119.179	87.460	502.120	102.00
1982	31.475	548.07	121.305	98.850	535.931	102.50
1983	27.883					

	WHEMG	WHEPX	WHEPF	WHERFCI	SDROCT
1961	419.231	0.550	1.83	384.73	1.000
1962	413.640	0.600	2.04	368.71	1.000
1963	412.554	0.470	1.85	358.76	1.000
1964	486.229	0.210	1.37	353.56	1.000
1965	471.671	0.460	1.35	337.54	1.000
1966	279.423	0.140	1.63	322.07	1.000
1967	338.105	0.008	1.39	315.11	1.000
1968	205.832	0.123	1.24	306.90	1.000
1969	210.654	0.121	1.25	291.53	1.000
1970	189.230	0.110	1.33	273.85	1.000
1971	190.677	0.064	1.34	253.64	1.066
1972	115.065	0.040	1.76	224.69	1.160
1973	48.105	0.000	3.95	191.54	1.204
1974	97.693	0.000	4.09	166.19	1.221
1975	105.006	0.000	3.56	150.85	1.160
1976	76.750	0.000	2.73	136.64	1.160
1977	130.435	0.000	2.33	119.11	1.224
1978	120.318	0.000	2.98	111.53	1.291
1979	108.935	0.000	3.78	106.81	1.305
1980	96.877	0.000	3.91	96.42	1.208
1981	98.908	0.000	3.65	94.04	1.125
1982	68.091	0.000	3.55	95.13	1.075
1983	90.000	0.000	3.55		

	CORPF	PETROP	RICPSMG	RICPXMG
1961	1.10	1.45	9.400	2.85
1962	1.12	1.42	9.300	2.30
1963	1.11	1.40	8.800	2.37
1964	1.17	1.33	8.350	2.23
1965	1.16	1.33	8.150	1.30
1966	1.24	1.33	8.350	0.61
1967	1.03	1.33	8.650	0.00
1968	1.08	1.30	8.500	0.00
1969	1.16	1.28	8.650	0.78
1970	1.33	1.30	8.900	0.97
1971	1.08	1.65	9.150	1.97
1972	1.57	1.90	13.550	0.79
1973	2.55	2.70	27.400	0.00
1974	3.02	9.76	19.900	0.00
1975	2.54	10.72	17.350	0.00
1976	2.15	11.51	14.100	0.00
1977	2.02	12.40	20.750	0.00
1978	2.25	12.70	16.200	0.00
1979	2.52	17.26	20.250	0.00
1980	3.11	28.67	21.890	0.00
1981	2.50	32.50	25.630	0.00
1982	2.70	33.47	26.140	0.00
1983	3.27	29.31	26.670	0.00

TABLE A-18: DATA FOR CORN EQUATION

	CORCXT	CORRPM	CORMINC	CORCSPM	WHERPCM	PETRPCM
1961	15.332	258.519	37.637	62.874	213.418	6.582
1962	15.619	247.552	39.974	65.913	226.818	6.445
1963	18.262	241.769	42.944	68.943	210.691	6.003
1964	19.265	245.315	45.835	75.388	170.562	5.528
1965	21.215	234.981	48.766	74.456	125.752	5.324
1966	18.536	242.948	51.730	84.114	204.465	5.116
1967	22.657	220.968	55.484	83.049	186.137	4.968
1968	20.450	219.963	59.855	88.934	145.238	4.767
1969	21.632	216.591	64.091	89.763	139.648	4.531
1970	20.468	216.797	67.465	95.966	141.126	4.377
1971	26.512	175.250	71.662	99.784	131.550	5.196
1972	32.959	202.002	76.924	98.561	149.342	5.333
1973	33.898	226.677	79.367	104.446	288.467	6.382
1974	38.681	221.580	80.709	102.867	265.233	19.404
1975	37.811	208.812	84.467	113.676	219.525	18.925
1976	45.269	174.538	88.500	110.051	154.926	19.322
1977	45.467	148.166	92.617	113.072	112.087	19.157
1978	46.007	143.675	96.517	116.712	124.495	16.632
1979	59.707	142.977	99.367	125.858	142.379	19.630
1980	69.808	167.182	101.644	125.393	145.423	29.398
1981	53.141	148.125	103.946	137.203	144.065	32.906
1982	48.694	154.031	106.164	134.729	144.422	35.964
1983	48.653					32.461

	SOYRPCM	CORPSDR	WHEPSDR	PETPSDR	SOYPSDR	LIVIND
1961	401.826	57.470	47.019	1.45	88.527	42.40
1962	393.781	58.104	52.896	1.42	91.833	42.99
1963	395.428	58.718	50.692	1.40	95.139	48.08
1964	413.172	61.940	42.611	1.33	103.221	51.72
1965	411.168	61.692	32.693	1.33	106.894	54.19
1966	392.463	65.487	54.733	1.33	105.057	56.01
1967	351.532	60.463	50.765	1.33	95.874	58.81
1968	330.263	62.315	41.031	1.30	93.303	61.24
1969	312.941	64.743	41.472	1.28	92.935	66.82
1970	347.031	69.615	44.815	1.30	110.200	71.16
1971	334.030	59.601	43.970	1.65	111.647	75.75
1972	540.061	74.433	54.467	1.78	196.967	78.75
1973	446.941	94.230	120.512	2.33	186.718	79.70
1974	409.846	102.640	123.046	8.11	190.135	79.42
1975	324.354	106.253	112.733	8.78	166.567	83.37
1976	415.973	95.987	86.450	9.92	232.117	86.89
1977	295.371	90.789	69.925	10.69	184.267	92.24
1978	297.033	96.801	84.791	10.38	202.304	96.95
1979	245.208	106.629	106.400	13.37	183.244	99.92
1980	282.291	133.511	118.897	21.97	230.800	100.00
1981	246.293	119.202	119.179	26.90	203.748	100.50
1982	244.500	126.702	121.305	29.75	205.365	101.16
1983				27.27		

TABLE A-18, CONT.

	CORPA	CORPF	CORRFCI	CORECCI	CORPAD	CORPFMT	CORRPOM
1961	73.92	1.10	334.93	118.97	95.384	43.305	204.31
1962	73.92	1.12	315.27	113.53	95.607	44.092	195.82
1963	76.48	1.11	306.71	108.92	98.918	43.698	188.80
1964	80.75	1.17	295.89	104.39	104.441	46.061	191.98
1965	80.86	1.16	283.96	100.69	104.583	45.667	182.67
1966	85.13	1.24	274.72	98.85	110.106	48.816	188.91
1967	88.37	1.03	267.92	98.74	113.763	40.549	153.03
1968	92.69	1.08	258.53	95.44	115.301	42.517	154.84
1969	93.70	1.16	247.16	89.57	115.798	45.667	158.99
1970	93.70	1.33	233.08	81.83	115.798	52.359	171.91
1971	94.56	1.08	208.29	72.37	119.788	42.517	124.75
1972	112.08	1.57	174.39	61.98	152.009	61.808	151.83
1973	99.67	2.55	142.40	56.41	148.421	100.388	201.37
1974	98.85	3.02	127.11	49.43	142.539	118.891	212.88
1975	123.66	2.54	119.98	47.89	185.506	99.995	169.00
1976	135.24	2.15	109.90	44.59	182.815	84.641	131.03
1977	141.86	2.02	93.07	37.89	195.709	79.523	104.26
1978	144.34	2.25	81.64	32.09	222.374	88.578	101.87
1979	148.48	2.52	74.45	28.09	246.058	99.207	104.04
1980	157.58	3.11	70.99	30.26	265.253	122.434	122.43
1981	172.46	2.50	75.15	32.30	229.605	98.420	104.19
1982	185.69	2.70	77.73	33.02	216.260	106.294	116.39
1983	193.97	3.27			207.400	128.733	

	CORRPEC	SDROCT	WHEPF	WHEPX	SOYPM	PETROP
1961	375.01	1.000	1.83	0.550	2.41	1.45
1962	358.70	1.000	2.04	0.600	2.50	1.42
1963	356.05	1.000	1.85	0.470	2.59	1.40
1964	360.30	1.000	1.37	0.210	2.81	1.33
1965	348.00	1.000	1.35	0.460	2.91	1.33
1966	359.68	1.000	1.63	0.140	2.86	1.33
1967	371.21	1.000	1.39	0.008	2.61	1.33
1968	363.66	1.000	1.24	0.123	2.54	1.30
1969	342.76	1.000	1.25	0.121	2.53	1.28
1970	313.14	1.000	1.33	0.110	3.00	1.30
1971	286.48	1.066	1.34	0.064	3.24	1.65
1972	311.35	1.160	1.76	0.040	6.22	1.90
1973	276.68	1.204	3.95	0.000	6.12	2.70
1974	232.84	1.221	4.09	0.000	6.32	9.76
1975	293.58	1.160	3.56	0.000	5.26	10.72
1976	269.39	1.160	2.73	0.000	7.33	11.51
1977	245.06	1.224	2.33	0.000	6.14	12.40
1978	235.82	1.291	2.98	0.000	7.11	12.70
1979	228.41	1.305	3.78	0.000	6.51	17.26
1980	265.25	1.208	3.91	0.000	7.59	28.67
1981	245.08	1.125	3.65	0.000	6.24	32.50
1982	235.99	1.075	3.55	0.000	6.01	33.47
1983			3.48	0.000	8.15	29.31

TABLE A-19: DATA FOR SOYBEAN EQUATION

	SOYCXT	SOYRPM	VALRPM	CORRPBM	SOYMINC
1961	4.139	398.664	426.408	322.619	42.646
1962	5.018	393.159	415.226	309.222	45.054
1963	5.128	391.706	402.338	303.790	48.181
1964	5.775	405.578	413.128	306.506	51.091
1965	6.918	404.166	448.666	294.843	53.813
1966	7.333	388.562	407.580	305.319	56.432
1967	7.441	353.369	366.168	298.354	59.968
1968	7.999	333.038	352.615	294.844	64.258
1969	12.074	314.223	381.071	283.783	68.198
1970	12.066	344.576	373.939	270.632	71.309
1971	11.970	329.225	341.462	232.792	75.243
1972	13.585	532.570	600.841	259.227	80.249
1973	17.147	455.536	516.377	259.195	82.581
1974	14.872	416.084	417.330	237.112	83.241
1975	17.360	333.523	353.718	256.927	86.658
1976	17.830	431.057	428.141	225.670	89.975
1977	21.550	306.390	332.403	198.707	93.445
1978	23.072	303.303	322.569	191.292	96.937
1979	25.908	246.229	265.426	187.106	99.449
1980	22.756	295.138	301.170	218.620	100.892
1981	24.809	259.197	265.656	198.567	102.264
1982	26.134	257.262	285.548	198.631	103.913
1983	23.329				

	SOYPSDR	VALSDR	LIVIND	SOYPM	SOOPM
1961	88.527	94.713	42.40	2.41	9.50
1962	91.833	97.013	42.99	2.50	8.90
1963	95.139	97.747	48.08	2.59	8.50
1964	103.221	105.170	51.72	2.81	11.30
1965	106.894	118.695	54.19	2.91	11.80
1966	105.057	110.228	56.01	2.86	10.10
1967	95.874	99.373	58.81	2.61	8.40
1968	93.303	98.813	61.24	2.54	8.40
1969	92.935	112.736	66.82	2.53	11.20
1970	110.200	119.622	71.16	3.00	12.80
1971	111.647	115.827	75.75	3.24	11.30
1972	196.967	222.275	78.75	6.22	16.50
1973	186.718	211.711	79.70	6.12	31.50
1974	190.135	190.754	79.42	6.32	30.70
1975	166.567	176.699	83.37	5.26	18.30
1976	232.117	230.607	86.89	7.33	23.90
1977	184.267	199.964	92.24	6.14	24.50
1978	202.304	215.211	96.95	7.11	27.20
1979	183.244	197.582	99.92	6.51	24.30
1980	230.800	235.578	100.00	7.59	22.70
1981	203.748	208.880	100.50	6.24	19.00
1982	205.365	228.005	101.16	6.01	20.60
1983				8.15	28.00

TABLE A-19, CONT.

	SOMPM44D	SOOSC	SOMSC	VALCRS	CORPFMT
1961	63.60	0.111	0.479	94.713	43.305
1962	71.30	0.108	0.471	97.013	44.092
1963	71.00	0.110	0.486	97.747	43.698
1964	70.20	0.107	0.471	105.170	46.061
1965	81.50	0.108	0.480	118.695	45.667
1966	78.80	0.109	0.482	110.228	48.816
1967	76.90	0.105	0.474	99.373	40.549
1968	74.10	0.108	0.481	98.813	42.517
1969	78.40	0.107	0.477	112.736	45.667
1970	78.50	0.109	0.474	119.622	52.359
1971	90.20	0.109	0.472	123.472	42.517
1972	229.00	0.104	0.463	257.838	61.808
1973	146.30	0.109	0.479	254.900	100.388
1974	130.90	0.105	0.476	232.911	118.891
1975	147.80	0.111	0.480	204.971	99.995
1976	199.80	0.109	0.468	267.504	84.641
1977	163.56	0.111	0.482	244.756	79.523
1978	190.06	0.111	0.478	277.837	88.578
1979	181.91	0.108	0.483	257.845	99.207
1980	218.18	0.111	0.479	284.579	122.434
1981	182.50	0.108	0.476	234.990	98.420
1982	187.20	0.108	0.475	245.105	106.294
1983	210.00	0.108	0.475	294.367	128.733

	CORPAD	SOYRFCI	SOYECCI	SDROCT
1961	95.384	205.09	245.12	1.000
1962	95.607	194.09	233.92	1.000
1963	98.918	187.19	224.42	1.000
1964	104.441	177.73	215.09	1.000
1965	104.583	170.55	207.45	1.000
1966	110.106	166.11	203.65	1.000
1967	113.763	165.05	203.43	1.000
1968	115.301	160.21	196.64	1.000
1969	115.798	153.48	184.54	1.000
1970	115.798	144.00	168.60	1.000
1971	119.788	127.45	149.10	1.066
1972	152.009	105.32	127.71	1.160
1973	148.421	86.35	116.23	1.204
1974	142.539	77.34	101.84	1.221
1975	185.506	73.91	98.66	1.160
1976	182.815	68.17	91.88	1.160
1977	195.709	57.74	78.07	1.224
1978	222.374	49.99	66.11	1.291
1979	246.058	45.07	57.87	1.305
1980	265.253	43.48	62.35	1.208
1981	229.605	46.50	66.55	1.125
1982	216.260	48.48	68.02	1.075
1983	207.400			

TABLE A-20: DATA FOR SOYMEAL EQUATION

	SOMCXT	SOMRPM	SOMMINC	FIMRPMM	CORRPMM
1961	0.965	306.66	51.270	597.89	395.491
1962	1.338	328.08	53.477	556.31	378.575
1963	1.404	313.74	56.205	592.58	375.220
1964	1.851	297.06	58.805	698.21	379.512
1965	2.468	332.43	61.135	648.55	366.271
1966	2.596	315.32	63.373	560.22	378.696
1967	2.756	307.01	66.301	483.07	387.262
1968	2.997	285.97	69.681	621.33	379.875
1969	3.971	284.54	73.008	646.02	359.257
1970	4.717	261.03	75.804	515.42	330.604
1971	4.443	265.53	78.828	497.50	299.505
1972	5.812	576.16	82.739	1250.44	327.018
1973	6.407	331.96	85.204	766.93	296.794
1974	6.297	260.46	86.124	439.74	253.535
1975	8.119	284.63	89.324	656.68	310.892
1976	8.215	358.72	92.259	732.51	283.460
1977	12.158	249.82	95.275	568.18	256.613
1978	11.774	246.18	98.140	463.71	246.862
1979	12.754	206.86	99.708	416.20	239.516
1980	12.065	264.55	99.566	429.24	278.419
1981	14.575	236.79	100.155	486.56	256.759
1982	12.299	249.29	101.333	530.00	249.166
1983	14.644				

	SOYRPMM	SOMPSDR	FIMPSDR	LIVIND
1961	387.342	70.087	136.648	42.40
1962	383.450	78.573	133.232	42.99
1963	381.499	78.242	147.778	48.08
1964	396.357	77.360	181.830	51.72
1965	395.657	89.813	175.218	54.19
1966	381.484	86.838	154.280	56.01
1967	347.332	84.744	133.342	58.81
1968	326.746	81.658	177.422	61.24
1969	306.073	86.397	196.156	66.82
1970	332.529	86.507	170.810	71.16
1971	317.927	93.246	174.707	75.75
1972	521.646	217.550	472.150	78.75
1973	462.880	133.906	309.365	79.70
1974	419.178	118.142	199.461	79.42
1975	337.647	140.410	323.950	83.37
1976	438.671	189.810	387.600	86.89
1977	312.602	147.257	334.922	92.24
1978	306.984	162.236	305.589	96.95
1979	246.762	153.613	309.067	99.92
1980	306.770	199.035	322.937	100.00
1981	269.879	178.769	367.333	100.50
1982	266.775	191.902	407.996	101.16

TABLE A-20, CONT.

	SOMPM44D	SOMRFCI	SOMECCI	FIMPW	CORPFMT
1961	63.60	41.96	395.58	124.00	43.305
1962	71.30	40.05	377.50	120.90	44.092
1963	71.00	38.81	362.18	134.10	43.698
1964	70.20	36.88	347.11	165.00	46.061
1965	81.50	35.36	334.78	159.00	45.667
1966	78.80	34.46	328.66	140.00	48.816
1967	76.90	33.98	328.30	121.00	40.549
1968	74.10	32.85	317.35	161.00	42.517
1969	78.40	31.53	297.81	178.00	45.667
1970	78.50	29.66	272.09	155.00	52.359
1971	90.20	26.51	240.62	169.00	42.517
1972	229.00	22.21	206.10	497.00	61.808
1973	146.30	18.33	187.57	338.00	100.388
1974	130.90	16.21	164.35	221.00	118.891
1975	147.80	15.53	159.22	341.00	99.995
1976	199.80	14.65	148.27	408.00	84.641
1977	163.56	12.60	126.00	372.00	79.523
1978	190.06	10.85	106.69	358.00	88.578
1979	181.91	9.80	93.39	366.00	99.207
1980	218.18	9.41	100.62	354.00	122.434
1981	182.50	10.35	107.39	375.00	98.420
1982	187.20	11.06	109.78	398.00	106.294
1983	210.00			421.00	128.733

	CORPAD	SDROCT	SOYPM
1961	95.384	1.000	2.41
1962	95.607	1.000	2.50
1963	98.918	1.000	2.59
1964	104.441	1.000	2.81
1965	104.583	1.000	2.91
1966	110.106	1.000	2.86
1967	113.763	1.000	2.61
1968	115.301	1.000	2.54
1969	115.798	1.000	2.53
1970	115.798	1.000	3.00
1971	119.788	1.066	3.24
1972	152.009	1.160	6.22
1973	148.421	1.204	6.12
1974	142.539	1.221	6.32
1975	185.506	1.160	5.26
1976	182.815	1.160	7.33
1977	195.709	1.224	6.14
1978	222.374	1.291	7.11
1979	246.058	1.305	6.51
1980	265.253	1.208	7.59
1981	229.605	1.125	6.24
1982	216.260	1.075	6.01
1983	207.400		8.15

TABLE A-21: DATA FOR MEAL EQUIVALENTS AND MEAL SHARE EQUATIONS

	MECXT	SOMRPEM	MEQMINC	FIMRPEM	CORRPEM	SOMCXT	CRSMAR
1961	4.270	312.93	45.926	610.12	344.001	0.965	27.618
1962	5.278	333.89	48.258	566.16	329.572	1.338	22.010
1963	5.558	319.61	51.233	603.66	324.747	1.404	10.652
1964	6.385	301.88	54.025	709.56	327.930	1.851	7.607
1965	8.002	337.42	56.598	658.28	315.799	2.468	44.335
1966	8.487	319.41	59.072	567.47	326.859	2.596	19.019
1967	8.634	310.72	62.377	488.91	324.442	2.756	12.829
1968	9.410	289.80	66.320	629.67	319.795	2.997	19.556
1969	13.570	289.84	70.028	658.06	305.935	3.971	66.427
1970	14.249	267.66	73.018	528.50	288.222	4.717	29.153
1971	13.859	272.14	76.607	509.88	252.361	4.443	12.200
1972	16.295	584.56	81.196	1268.68	279.114	5.812	68.002
1973	20.096	328.17	83.579	758.17	270.222	6.407	61.252
1974	18.095	259.06	84.345	437.38	241.939	6.297	1.358
1975	22.007	282.12	87.672	650.89	272.762	8.119	20.359
1976	22.122	354.27	90.844	723.43	242.637	8.215	-2.818
1977	29.466	246.27	94.141	560.11	215.706	12.158	26.251
1978	30.155	244.05	97.394	459.69	207.599	11.774	19.416
1979	33.610	206.50	99.548	415.47	202.478	12.754	19.274
1980	30.232	257.41	100.388	417.65	236.164	12.065	6.181
1981	36.062	230.12	101.462	472.84	215.632	14.575	6.607
1982	32.988	242.97	102.932	516.58	213.474	12.299	28.665
1983	31.932					14.644	

	SOMPM44D	MEQRFCI	MEQECCI	FIMPW	CORPFMT	CORPAD
1961	63.60	157.22	289.27	124.00	43.305	95.384
1962	71.30	148.89	276.05	120.90	44.092	95.607
1963	71.00	143.65	264.84	134.10	43.698	98.918
1964	70.20	136.40	253.83	165.00	46.061	104.441
1965	81.50	130.88	244.81	159.00	45.667	104.583
1966	78.80	127.48	240.34	140.00	48.816	110.106
1967	76.90	126.59	240.07	121.00	40.549	113.763
1968	74.10	122.84	232.06	161.00	42.517	115.301
1969	78.40	117.70	217.78	178.00	45.667	115.798
1970	78.50	110.45	198.96	155.00	52.359	115.798
1971	90.20	97.83	175.95	169.00	42.517	119.788
1972	229.00	80.93	150.71	497.00	61.808	152.009
1973	146.30	66.39	137.16	338.00	100.388	148.421
1974	130.90	59.40	120.19	221.00	118.891	142.539
1975	147.80	56.78	116.43	341.00	99.995	185.506
1976	199.80	52.47	108.43	408.00	84.641	182.815
1977	163.56	44.49	92.14	372.00	79.523	195.709
1978	190.06	38.50	78.02	358.00	88.578	222.374
1979	181.91	34.72	68.29	366.00	99.207	246.058
1980	218.18	33.48	73.58	354.00	122.434	265.253
1981	182.50	35.89	78.53	375.00	98.420	229.605
1982	187.20	37.50	80.28	398.00	106.294	216.260
1983	210.00			421.00	128.733	207.400

TABLE A-21, CONT.

	SDROCT	SOYPM	SOMSC	SOYRPEM	VALCRS	VALRPEM
1961	1.000	2.41	0.479	395.266	94.713	422.884
1962	1.000	2.50	0.471	390.237	97.013	412.247
1963	1.000	2.59	0.486	388.635	97.747	399.287
1964	1.000	2.81	0.471	402.798	105.170	410.405
1965	1.000	2.91	0.480	401.590	118.695	445.925
1966	1.000	2.86	0.482	386.422	110.228	405.441
1967	1.000	2.61	0.474	351.532	99.373	364.361
1968	1.000	2.54	0.481	331.131	98.813	350.687
1969	1.000	2.53	0.477	311.779	112.736	378.207
1970	1.000	3.00	0.474	340.970	119.622	370.122
1971	1.066	3.24	0.472	325.842	123.472	338.042
1972	1.160	6.22	0.463	529.254	257.838	597.256
1973	1.204	6.12	0.479	457.597	254.900	518.849
1974	1.221	6.32	0.476	416.927	232.911	418.285
1975	1.160	5.26	0.480	334.672	204.971	355.030
1976	1.160	7.33	0.468	433.232	267.504	430.414
1977	1.224	6.14	0.482	308.159	244.756	334.410
1978	1.291	7.11	0.478	304.320	277.837	323.736
1979	1.305	6.51	0.483	246.332	257.845	265.606
1980	1.208	7.59	0.479	298.490	284.579	304.670
1981	1.125	6.24	0.476	262.269	234.990	268.876
1982	1.075	6.01	0.475	260.020	245.105	288.685
1983		8.15	0.475		294.367	

TABLE A-22: DATA FOR SOYOIL EQUATION

	SOOCXT	SOORPM	SOOMINC	PALRPOM	SOYRPOM	SOOPSDR
1961	0.604	647.95	38.247	664.51	273.96	209.38
1962	0.390	595.65	40.395	656.60	278.86	196.16
1963	0.318	541.17	42.781	664.21	274.83	187.34
1964	0.440	684.84	45.185	724.63	283.84	249.05
1965	0.336	730.28	47.664	684.22	300.16	260.07
1966	0.258	634.60	50.102	643.39	299.50	222.60
1967	0.206	530.69	52.792	521.52	274.82	185.14
1968	0.159	517.42	56.317	504.98	260.76	185.14
1969	0.458	670.54	59.787	654.20	252.45	246.85
1970	0.549	734.11	63.333	680.31	286.76	282.11
1971	0.429	636.55	66.859	584.24	304.19	233.63
1972	0.618	834.45	70.888	771.66	524.27	313.50
1973	1.019	1337.63	75.365	1180.06	433.14	576.63
1974	0.945	1154.06	78.738	832.37	395.96	554.16
1975	1.186	666.30	82.941	665.86	319.20	347.70
1976	1.570	796.24	87.473	751.10	407.01	454.10
1977	2.125	742.85	91.054	801.71	310.28	441.16
1978	2.365	734.31	94.926	784.49	319.91	464.36
1979	2.381	560.32	98.986	628.52	250.18	410.40
1980	2.726	488.00	101.623	559.66	271.95	414.16
1981	2.779	420.31	102.540	478.24	230.06	372.23
1982	2.882	465.69	102.991	499.86	226.44	422.35
1983						

	PALPSDR	IRESIND	SOOMGMT
1961	214.73	10.66	0.239
1962	216.23	11.38	0.229
1963	229.94	12.97	0.272
1964	263.52	12.69	0.273
1965	243.67	14.41	0.201
1966	225.69	15.72	0.360
1967	181.94	16.72	0.396
1968	180.69	19.51	0.359
1969	240.83	21.40	0.343
1970	261.44	23.51	0.382
1971	214.43	25.65	0.351
1972	289.91	36.41	0.201
1973	508.70	45.01	0.106
1974	399.69	45.94	0.099
1975	347.47	44.98	0.183
1976	428.36	59.62	0.168
1977	476.12	73.56	0.216
1978	496.09	85.92	0.152
1979	460.36	95.72	0.234
1980	474.98	100.00	0.262
1981	423.54	103.59	0.246
1982	453.33	115.74	0.243
1983			0.159

	SOOPM	SOORFCI	SOYCXT	SOOSC	SDROCT
1961	9.50	309.46	4.139	0.111	1.000
1962	8.90	303.66	5.018	0.108	1.000
1963	8.50	288.87	5.128	0.110	1.000
1964	11.30	274.98	5.775	0.107	1.000
1965	11.80	280.80	6.918	0.108	1.000
1966	10.10	285.08	7.333	0.109	1.000
1967	8.40	286.65	7.441	0.105	1.000
1968	8.40	279.48	7.999	0.108	1.000
1969	11.20	271.64	12.074	0.107	1.000
1970	12.80	260.22	12.066	0.109	1.000
1971	11.30	255.59	11.970	0.109	1.066
1972	16.50	229.46	13.585	0.104	1.160
1973	31.50	192.67	17.147	0.109	1.204
1974	30.70	170.56	14.872	0.105	1.221
1975	18.30	165.20	17.360	0.111	1.160
1976	23.90	151.16	17.830	0.109	1.160
1977	24.50	137.57	21.545	0.111	1.224
1978	27.20	122.49	23.072	0.111	1.291
1979	24.30	104.62	25.908	0.108	1.305
1980	22.70	97.54	22.756	0.111	1.208
1981	19.00	100.37	27.084	0.108	1.125
1982	20.60	102.57	26.134	0.108	1.075
1983	28.00		21.837	0.108	

	SOYPM	PALMOPC	PALMOP
1961	2.41	228.42	214.73
1962	2.50	210.17	216.23
1963	2.59	218.25	229.94
1964	2.81	233.83	263.52
1965	2.91	273.42	243.67
1966	2.86	233.75	225.69
1967	2.61	223.00	181.94
1968	2.54	168.25	180.69
1969	2.53	184.83	240.83
1970	3.00	259.50	261.44
1971	3.24	262.08	228.59
1972	6.22	217.42	336.30
1973	6.12	375.92	612.48
1974	6.32	691.33	488.02
1975	5.26	420.25	403.06
1976	7.33	397.33	496.89
1977	6.14	530.08	582.77
1978	7.11	600.33	640.46
1979	6.51	653.83	600.77
1980	7.59	583.08	573.77
1981	6.24	570.67	476.48
1982	6.01	445.08	487.34
1983	8.15	501.42	

Table A-23: Actual and Fitted Dependent Variables

	Wheat Equation 1		Corn Equation 1		Bean Equation 1C-0	
	Actual	Fitted	Actual	Fitted	Actual	Fitted
1961	25.6	25.0	15.3	15.5		
1962	19.5	24.3	15.6	17.2	5.02	3.89
1963	29.1	26.3	18.3	18.2	5.13	4.73
1964	29.1	27.4	19.3	18.2	5.78	5.10
1965	30.9	30.4	21.2	19.1	6.92	7.36
1966	35.4	34.3	18.5	19.5	7.33	6.86
1967	31.1	31.7	22.7	21.0	7.44	8.50
1968	31.6	34.3	20.5	20.5	8.00	9.68
1969	33.9	35.7	21.6	21.1	12.10	12.10
1970	40.5	40.8	20.5	23.1	12.10	11.90
1971	37.3	37.3	26.5	28.7	12.00	13.30
1972	43.7	40.7	33.0	35.4	13.60	13.80
1973	52.2	51.3	33.9	32.6	17.10	15.70
1974	51.4	52.5	38.7	38.9	14.90	15.60
1975	55.9	55.7	37.8	36.9	17.40	18.00
1976	55.0	52.6	45.3	44.4	17.80	16.80
1977	54.7	53.8	45.5	42.9	21.60	21.60
1978	55.1	53.7	46.0	43.3	23.10	22.50
1979	63.9	61.7	59.7	62.4	25.90	24.50
1980	56.9	61.3	69.8	67.1	22.80	24.60
1981	62.6	63.7	53.1	52.0	24.80	24.00
1982	59.0	59.6	48.7	53.5	26.10	26.10

	Meal Equation 1		Meal-equivalents Equation 1C-0		Meal Share Equation 1	
	Actual	Fitted	Actual	Fitted	Actual	Fitted
1961	0.97	0.55				
1962	1.34	0.77	5.28	2.67	0.254	0.270
1963	1.40	1.36	5.56	5.62	0.253	0.278
1964	1.85	2.05	6.39	7.46	0.290	0.285
1965	2.47	2.23	8.00	5.88	0.308	0.288
1966	2.60	2.51	8.49	7.97	0.306	0.298
1967	2.76	2.90	8.63	8.97	0.319	0.306
1968	3.00	3.81	9.41	12.50	0.318	0.312
1969	3.97	4.42	13.60	12.80	0.293	0.313
1970	4.72	4.75	14.20	14.90	0.331	0.324
1971	4.44	5.22	13.90	16.40	0.321	0.333
1972	5.81	6.06	16.30	15.80	0.357	0.333
1973	6.41	6.54	20.10	20.90	0.319	0.341
1974	6.30	6.38	18.10	20.00	0.348	0.355
1975	8.12	7.22	22.00	22.60	0.369	0.360
1976	8.22	7.57	22.10	23.20	0.371	0.370
1977	12.20	12.10	29.50	26.60	0.413	0.373
1978	11.80	12.40	30.20	29.80	0.390	0.381
1979	12.80	12.70	33.60	31.60	0.379	0.388
1980	12.10	12.50	30.20	31.50	0.399	0.396
1981	14.60	12.80	36.10	32.10	0.404	0.403
1982	12.30	13.00	33.00	35.30	0.373	0.407

	Implied Soymeal Exports	Implied Soybean Exports	Soyoil Equation 1	
			Actual	Fitted
1961				
1962	0.72	2.48	0.390	0.419
1963	1.56	5.01	0.318	0.391
1964	2.13	6.79	0.440	0.309
1965	1.69	5.23	0.336	0.293
1966	2.38	6.96	0.258	0.302
1967	2.74	7.88	0.206	0.181
1968	3.90	10.73	0.159	0.184
1969	4.01	11.06	0.458	0.302
1970	4.83	12.75	0.549	0.539
1971	5.46	13.91	0.429	0.595
1972	5.26	13.66	0.618	0.688
1973	7.13	17.25	1.020	1.050
1974	7.10	16.26	0.945	0.929
1975	8.14	18.08	1.190	1.260
1976	8.58	18.74	1.570	1.500
1977	9.92	20.76	2.130	2.000
1978	11.35	23.15	2.370	2.430
1979	12.26	24.02	2.380	2.590
1980	12.47	23.83	2.730	2.600
1981	12.94	24.16	2.780	2.780
1982	14.37	26.44	2.880	2.810

TABLE A-24: Data sources and variable definitions

Table A-1

U.S. exports and total competitor exports were taken from the University of Missouri Agricultural Modeling Group Data Bank, as updated in November 1984 (hereafter referred to as UMAMGDB). USSR and PRC wheat imports from countries other than the U.S. were obtained from the USDA OSF data tape. Commercial exports equal total exports minus USSR and PRC imports and PL 480 exports. World totals sum U.S. and competitor exports.

Table A-2

All data were obtained from UMAMGDB. Commercial exports equal total exports minus USSR and PRC imports and PL 480 exports.

Table A-3

All data were obtained from UMAMGDB. Commercial exports equal total exports minus USSR and PRC imports.

Table A-4

USSR and PRC imports were taken from USDA Foreign Agricultural Service (FAS) **Foreign Agricultural Circulars.** All other data were obtained from UMAMGDB. Commercial exports equal total exports minus USSR and PRC imports.

Table A-5

U.S. exports were obtained from UMAMGDB. Competitor exports were taken from USDA FAS **Foreign Agricultural Circulars.** Commercial exports equal total exports minus PL 480 exports.

Table A-6

Each country's imports for crop years 1978/79 to 1982/83 were taken from USDA FAS **Foreign Agricultural Circulars.** In all cases, only net EC imports were considered. For soyoil and wheat, imports by the country groupings equal the sum of imports by countries belonging to each category, with non-oil LDCs defined as the residual category. Weights equal the average imports of a country (or group of countries) divided by the subtotal of exports by weighted countries (i.e., excluding USSR, China and "Others").

Table A-7

The income indices for countries and country groupings other than Taiwan, the EC and Eastern Europe are based on reported annual changes in real GDP in IMF's **International Financial Statistics**, 1984, pp. 120-123. The income index for Taiwan was obtained from the Council for Economic Planning and Development (CEPD 1982) **Taiwan Statistical Data Book.** The income index for the EC was based on "EC Grains, Oilseeds, and Livestock: Selected Statistics, 1960-80," by

Herlihy, et al. (1983), for years prior to 1981. For later years, a weighted average of growth rates in EC member countries, as reported in **International Financial Statistics**, was calculated.

Table A-8

The MINC variables were calculated as follows:

$$MINCit = \sum_j (ait*wij*RGDPjt + ait+1*wij*RGDPjt+1), \text{ where}$$

MINCit is the index of real importer income for commodity i in crop year t;
ait is the weight assigned to calendar year t (ait = .25 for corn, soybeans, soymeal, soyoil and meal equivalents; a1t = .5 for wheat);
wij is the weight assigned to country or region j for commodity i (wij were derived in Table A-6);
RGDPjt is the index of real GDP in country or region j for calendar year t (RGDPjt were reported in Table A-7);
ait+1 is the weight assigned to calendar year t+1 (ait+1 = .75 for corn, soybeans, soymeal, soyoil and meal equivalents; ait+1 = .5 for wheat); and
RGDPjt+1 is the index of real GDP in country or region j for calendar year t+1.

Since the wij sum to 1 and the RGDPjt have the value 100 in 1980, MINC would take the value 100 in calendar year 1980. However since MINC is reported on a crop year basis, the 1980 value generally differs from 100. CORMINC, SOYMINC, SOMMINC, SOOMINC, WHEMINC, and MEQMINC are, respectively, the importer income indices for corn, soybeans, soymeal, soybean oil, wheat and meal equivalents.

LIVEPUJ1, IRESDEV and YCAPI5 are all taken from Westhoff and Meyers CTAP Staff Report No. 1-84. LIVEPUJ1 sums an index of pork production and an index of poultry production for the EC and Japan, using UMAMGDB data. LIVIND is the same as LIVEPUJ1, except 1980 is set equal to 100. IRESDEV is defined as international reserves of non-oil exporting LDCs, as reported in **International Financial Statistics**. IRESIND converts IRESDEV to an index with 1980 set equal to 100. YCAPI5 is the sum of real per capita income indices for India, Indonesia, South Korea, Morocco and Mexico, derived from IMF data. YCAPIND converts YCAPI5 to an index with 1980 set equal to 100.

Table A-9

The same data are used as were used in Table A-6. The weights differ because Eastern Europe is not assigned a weight and because country groupings are not used for soyoil and wheat.

Table A-10

Exchange rates for all countries other than the EC and Taiwan are period average rates in foreign currency per

dollar, as reported in International Financial Statistics. The EC rate was taken from Herlihy, et al. 1983 for years prior to 1981, and from International Financial Statistics for later years. The Taiwan rate was taken from CEPD 1982 for years through 1982, and was arbitrarily specified to be 40 in 1983, for lack of better information.

Table A-11

Price indices were taken from the same sources as exchange rates. The EC price index for 1983 was estimated by taking a weighted average of inflation rates in member countries. The Taiwan index was arbitrarily set at 179 in 1983.

Table A-12

Calendar year real exchange rate indices were created by multiplying the nominal exchange rate by the US WPI, dividing by the country's price index, and then setting 1980 equal to 100.

Table A-13

Crop year real exchange rates were computed in a manner analagous to that used to derive the income indices in Table A-8. The weights used are those found in Table A-9, and the country real exchange rates are those found in Table A-12. The same manner is used to adjust for crop years as was used in Table A-8, although here the crop year index for 1980 is set equal to 100.

Table A-14

Competing importer supply variables were derived based on data from the USDA OSF data tape. Importer wheat production is defined as world production minus production by the USSR, PRC, US, EC, Canada, Australia and Argentina. Importer beginning and ending stocks are defined in a similar way. WHECSPM equals importer production plus beginning stocks minus ending stocks.

Table A-15

Wheat importer rice production and stocks are defined as in Table A-14 (Canada does not produce rice). RICCSPM equals wheat importer production plus beginning stocks minus ending stocks.

Table A-16

Importer corn production is defined as world production minus production by the USSR, PRC, US, South Africa and Thailand. Importer stocks are defined in a similar way. CORCSPM equals importer production plus beginning stocks minus ending stocks.

Table A-17

Variable definitions and sources are as follows:

WHECXT Commercial world wheat exports, in millions of metric tons. Table A-1.

WHERPM Real importer price of wheat, in real foreign currency units per metric ton. Calculated: WHERPM = (WHEPF-WHEPX) * 2204/60 * WHERFCI/100.

WHEMINC Real GDP index for wheat importing countries. Table A-8.

WHECSPM Wheat supplies in importing countries, in millions of metric tons. Table A-14.

RICCSPM Rice supplies in wheat importing countries, in millions of metric tons. Table A-15.

WHEMGMT PL 480 exports, in millions of metric tons. Calculated: WHEMGMT = WHEMG * 60/2204.

CORRPWM Real wheat importer price of corn, in real foreign currency units per metric ton. Calculated: CORRPWM = CORPF * 2204/56 * WHERFCI/100.

PETRPWM Real wheat importer price of petroleum, in real foreign currency units per barrel. Calculated: PETRPWM = PETROP * WHERFCI/100.

RICRPWM Real wheat importer price of rice, in real foreign currency units per metric ton. Calculated: RICRPWM = (RICPSMG-RICPXMG) * 22.04 * WHERFCI/100.

WHEPSDR Nominal importer price of wheat, in SDRs per metric ton. Calculated: WHEPSDR = (WHEPF-WHEPX) * 2204/60/SDROCT.

CORPSDR Nominal wheat importer price of corn, in SDRs per metric ton. Calculated: CORPSDR = CORPF * 2204/56/ SDROCT.

RICPSDR Nominal wheat importer price of rice, in SDRs per metric ton. Calculated: RICPSDR = (RICPSMG-RICPXMG) * 22.04/SDROCT.

YCAPIND Index of per-capita income in 5 wheat-importing countries. Table A-8.

WHEMG PL 480 wheat exports, in millions of bushels. UMAMGDB.

WHEPX US wheat export subsidy, in dollars per bushel. UMAMGDB.

WHEPF US farm price of wheat, in dollars per bushel. UMAMGDB.

WHERFCI Conversion index used to create real wheat importer prices. Construction of the index is similar to that of real exchange rate indices in Table A-13. For each country, the nominal exchange rate is divided by the price index, and calendar year 1980 is set equal to 100. The country indices are multiplied by the weights in Table A-9. Finally, a weighted average of current and following year values is taken to create a crop year index.

SDROCT Dollars per SDR, average of quarterly means, October-September year. UMAMGDB.

CORPF US farm price of corn, in dollars per bushel. UMAMGDB.

PETROP Saudi light petroleum price, in dollars per barrel. International Financial Statistics.

RICPSMG US Gulf price of rice, in dollars per hundredweight. UMAMGDB.
RICPXMG US rice export subsidy, in dollars per hundredweight. UMAMGDB.

Table A-18
Variable definitions and sources are as follows:

CORCXT Commercial world corn exports, in millions of metric tons. Table A-2.
CORRPM Real importer price of corn, in real foreign currency units per metric ton. Calculated: CORRPM = (CORPFMT*CORRFCI + CORPAD*CORECCI)/100.
CORMINC Real GDP index for corn importing countries. Table A-8.
CORCSPM Corn supplies in importing countries, in millions of metric tons. Table A-16.
WHERPCM Real corn importer price of wheat, in real foreign currency units per metric ton. Calculated: WHERPCM = (WHEPF-WHEPX) * 2204/60 * (CORRFCI +CORECCI)/100.
PETRPCM Real corn importer price of petroleum, in real foreign currency units per barrel. Calculated: PETRPCM = PETROP * (CORRFCI+CORECCI)/100.
SOYRPCM Real corn importer price of soybeans, in real foreign currency units per metric ton. Calculated: SOYRPCM = SOYPM * 2204/60 * (CORRFCI+CORECCI)/100.
CORPSDR Nominal importer price of corn, in SDRs per metric ton. Calculated: CORPSDR = CORPF * 2204/56/SDROCT.
WHEPSDR Nominal importer price of wheat, in SDRs per metric ton. Calculated: WHEPSDR = (WHEPF-WHEPX) * 2204/60/SDROCT.
PETPSDR Nominal importer price of petroleum, in SDRs per barrel. Calculated: PETPSDR = PETROP/SDROCT.
SOYPSDR Nominal importer price of soybeans, in SDRs per metric ton. Calculated: SOYPSDR = SOYPM * 2204/60/SDROCT.
LIVIND Index of livestock production in the EC and Japan. Table A-8.
CORPA EC threshold price of corn, in Units of Account per metric ton. UMAMGDB.
CORPF US farm price of corn, in dollars per bushel. UMAMGDB.
CORRFCI Conversion index used to create real corn importer prices for countries other than the EC. Construction of the index is similar to that of WHERFCI in Table A-17. The only difference is that the EC is not included, and the weights therefore sum to .728.
CORECCI Conversion index used to create real corn importer prices for the EC. The index is calculated in the same manner as CORRFCI, except the EC receives a weight of .272, and no other countries are included.

CORPAD EC threshold price of corn, in dollars per metric ton. Calculated: CORPAD = CORPA * 1.209 * the dollar/ECU exchange rate.

CORPFMT US farm price of corn, in dollars per metric ton. Calculated: CORPFMT = CORPF * 2204/56.

CORRPOM Real price of corn in importers other than the EC, in real foreign currency units per metric ton. Calculated: CORRPOM = CORPFMT * CORRFCI * 1/72.8.

CORRPEC Real price of corn in the EC, in real foreign currency units per metric ton. Calculated: CORRPEC = CORPAD * CORECCI * 1/27.2.

SDROCT Dollars per SDR, average of quarterly means, October-September year. UMAMGDB.

WHEPX US farm price of wheat, in dollars per bushel. UMAMGDB.

WHEPF US wheat export subsidy, in dollars per bushel. UMAMGDB.

SOYPM US market price of soybeans, in dollars per bushel. UMAMGDB.

PETROP Saudi light petroleum price, in dollars per barrel. International Financial Statistics.

Table A-19

Variable definitions and sources are as follows:

SOYCXT Commercial world soybean exports, in millions of metric tons. Table A-3.

SOYRPM Real importer price of soybeans, in real foreign currency units per metric ton. Calculated: SOYRPM = SOYPM * 2204/60 * (SOYRFCI+SOYECCI)/100.

VALRPM Real value of meal and oil which could be extracted from a metric ton of soybeans, in real foreign currency units. Calculated: VALRPM = VALCRS * (SOYRFCI+SOYECCI)/100.

CORRPBM Real soybean importer price of corn, in real foreign currency units per metric ton. Calculated: CORRPBM = (CORPFMT*SOYRFCI + CORPAD*SOYECCI)/100.

SOYMINC Real GDP index for soybean importing countries. Table A-8.

SOYPSDR Nominal importer price of soybeans, in SDRs per metric ton. Calculated: SOYPSDR = SOYPM * 2204/60/ SDROCT.

VALSDR Nominal value of meal and oil which could be extracted from a metric ton of soybeans, in SDRs. Calculated: VALSDR = VALCRS/SDROCT.

LIVIND Index of livestock production in the EC and Japan. Table A-8.

SOYPM US market price of soybeans, in dollars per bushel. UMAMGDB.

SOOPM US market price of soyoil, in dollars per hundredweight. UMAMGDB.

SOMPM44D US market price of soybean meal, in dollars per short ton. UMAMGDB.

SOOSC Soybean oil crushing yield, in hundredweight per

bushel. UMAMGDB.

SOMSC Soybean meal crushing yield, in hundredweight per bushel. UMAMGDB.

VALCRS Nominal value of meal and oil which could be extracted from a metric ton of soybeans, in dollars. Calculated: VALCRS = (SOOPM*SOOSC + SOMPM44D*SOMSC/20) * 2204/60.

CORPFMT US farm price of corn, in dollars per metric ton. Table A-18.

CORPAD EC threshold price of corn, in dollars per metric ton. Table A-18.

SOYRFCI Conversion index used to create real soybean importer prices for countries other than the EC. Construction of the index is similar to that of CORRFCI in Table A-18, except the weights sum to .44.

SOYECCI Conversion index used to create real soybean importer prices for the EC. The index is constructed in the same way as CORECCI in Table A-18, except the weight is .56.

SDROCT Dollars per SDR, average of quarterly means, October-September year. UMAMGDB.

Table A-20

Variable definitions and sources are as follows:

SOMCXT Commercial world soymeal exports, in millions of metric tons. Table A-4.

SOMRPM Real importer price of soymeal, in real foreign currency units per metric ton. Calculated: SOMRPM = SOMPM44D * 2204/2000 * (SOMRFCI+ SOMECCI)/100.

SOMMINC Real GDP index for soymeal importing countries. Table A-8.

FIMRPMM Real soymeal importer price of fishmeal, in real foreign currency units per metric ton. Calculated: FIMRPMM = FIMPW * 2204/2000 * (SOMRFCI+SOMECCI)/ 100.

CORRPMM Real soymeal importer price of corn, in real foreign currency units per metric ton. Calculated: CORRPMM = (CORPFMT*SOMRFCI + CORPAD*SOMECCI)/100.

SOYRPMM Real soymeal importer price of soybeans, in real foreign currency units per metric ton. Calculated: SOYRPMM = SOYPM * 2204/60 * (SOMRFCI+SOMECCI)/100.

SOMPSDR Nominal importer price of soymeal, in SDRs per metric ton. Calculated: SOMPSDR = SOMPM44D * 2204/ 2000/SDROCT.

FIMPSDR Nominal importer price of fishmeal, in SDRs per metric ton. Calculated: FIMPSDR = FIMPW * 2204/ 2000/SDROCT.

LIVIND Index of livestock production in the EC and Japan. Table A-8.

SOMPM44D US market price of soymeal, in dollars per short ton. UMAMGDB.

SOMRFCI Conversion index used to create real soymeal importer prices for countries other than the EC. Construction of the index is similar to that of CORRFCI in Table A-18, except the weights sum to .096.

SOMECCI Conversion index used to create real soymeal importer prices for the EC. The index is constructed in the same way as CORECCI in Table A-18, except the weight is .904.

FIMPW Price of fishmeal, in dollars per short ton. UMAMGDB.

CORPFMT US farm price of corn, in dollars per metric ton. Table A-18.

CORPAD EC threshold price of corn, in dollars per metric ton. Table A-18.

SDROCT Dollars per SDR, average of quarterly means, October-September year. UMAMGDB.

SOYPM US market price of soybeans, in dollars per bushel. UMAMGDB.

Table A-21

Variable definitions and sources are as follows:

MECXT Commercial exports of soybeans and soymeal, in millions of metric tons of meal-equivalents. Calculated: MECXT = SOYCXT*SOMSC/60 + SOMCXT.

SOMRPEM Real soybean and soymeal importer price of soymeal, in real foreign currency units per metric ton. Calculated: SOMRPEM = SOMPM44D * 2204/2000 * (MEQRFCI+MEQECCI)/100.

MEQMINC Real GDP index for soybean and soymeal importing countries. Table A-8.

FIMRPEM Real soybean and soymeal importer price of fishmeal, in real foreign currency units per metric ton. Calculated: FIMRPEM = FIMPW * 2204/2000 * (MEQRFCI+MEQECCI)/100.

CORRPEM Real soybean and soymeal importer price of corn, in real foreign currency units per metric ton. Calculated: CORRPEM = (CORPFMT*MEQRFCI + CORPAD *MEQECCI)/100.

SOMCXT Commercial world soymeal exports, in millions of metric tons. Table A-4.

CRSMAR Soybean crushing margin, in real foreign currency units per metric ton. Calculated: CRSMAR = VALRPEM - SOYRPEM.

SOMPM44D US market price of soymeal, in dollars per short ton. UMAMGDB.

MEQRFCI Conversion index used to create real soybean and soymeal importer prices for countries other than the EC. Construction of the index is similar to that of CORRFCI in Table A-18, except the weights sum to .339.

MEQECCI Conversion index used to create real soybean and soymeal importer prices for the EC. The index is

constructed in the same way as CORECCI in Table A-18, except the weight is .661.

FIMPW Price of fishmeal, in dollars per short ton. UMAMGDB.

CORPFMT US farm price of corn, in dollars per metric ton. Table A-18.

CORPAD EC threshold price of conr, in dollars per metric ton. Table A-18.

SDROCT Dollars per SDR, average of quarterly means, October-September year. UMAMGDB.

SOYPM US market price of soybeans, in dollars per bushel. UMAMGDB.

SOMSC Soymeal crushing yield, in hundredweight per bushel. UMAMGDB.

SOYRPEM Real soybean and soymeal importer price of soybeans, in real foreign currency units per metric ton. Calculated: SOYRPEM = SOYPM * 2204/60 * (MEQRFCI+MEQECCI)/100.

VALCRS Nominal value of meal and oil which could be extracted from a metric ton of soybeans, in dollars. Table A-19.

VALRPEM Real value of meal and oil which could be extracted from a metric ton of soybeans, in real foreign currency units. Calculated: VALRPEM = VALCRS * (SOYRFCI+SOYECCI)/100.

Table A-22

Variable definitions and sources are as follows:

SOOCXT Commercial world soyoil exports, in millions of metric tons. Table A-5.

SOORPM Real importer price of soyoil, in real foreign currency units per metric ton. Calculated: SOORPM = SOOPM * 2204/100 * SOORFCI/100.

SOOMINC Real GDP index for soyoil importing countries. Table A-8.

PALRPOM Real soyoil importer price of palm oil, in real foreign currency units per metric ton. Calculated: PALRPOM = PALMOP * SOORFCI/100.

SOYRPOM Real soyoil importer price of soybeans, in real foreign currency units per metric ton. Calculated: SOYRPOM = SOYPM * 2204/60 * SOORFCI/100.

SOOPSDR Nominal importer soyoil price, in SDRs per metric ton. Calculated: SOOPSDR = SOOPM * 2204/100/ SDROCT.

PALPSDR Nominal importer palm oil price, in SDRs per metric ton. Calculated: PALPSDR = PALMOP/SDROCT.

IRESIND Index of international reserve holdings of non-petroleum exporting LDCs. Table A-8.

SOOMGMT PL 480 exports, in millions of metric tons. Calculated: SOOMGMT = SOOPL * 100/2204. SOOPL is taken from UMAMGDB.

SOOPM US market price of soyoil, in dollars per hundred-weight. UMAMGDB.

SOORFCI	Conversion index used to create real soyoil importer prices. Construction of the index is similar to that of WHERFCI in Table A-17.
SOYCXT	Commercial world soybean exports, in millions of metric tons. Table A-3.
SOOSC	Soybean oil crushing yield, in hundredweight per bushel. UMAMGDB.
SDROCT	Dollars per SDR, average of quarterly means, October-September year. UMAMGDB.
SOYPM	US market price of soybeans, in dollars per bushel. UMAMGDB.
PALMOPC	Rotterdam price of palm oil, calendar year basis, in dollars per metric ton. International Financial Statistics.
PALMOP	Rotterdam price of palm oil, crop year basis, in dollars per metric ton. Calculated: PALMOP = .25 * PALMOPCt + .75 * PALMOPCt+1.

Table A-23

Actual values are taken from Tables A-17 to A-22, and fitted values are taken from regression outputs. Actual meal shares are defined as SOMCXT/MECXT. Implied soymeal exports are defined as the fitted meal share multiplied by fitted meal-equivalents exports. Implied soybean exports are defined (1 - the fitted meal share) multiplied by fitted meal-equivalents exports, multiplied by .60/SOMSC.