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Costs of Production for Major U.S. Crops, 1975-87

Robert McElroy
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Costs of Production for Major U.S. Crops, 1975-87. By Robert McElroy, Mir Ali, Robert Dismukes, and Annette Clauson. Agriculture and Rural Economy Division, Economic Research Service, U.S. Department of Agriculture. Staff Report No. AGES 89-22.

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Abstract

USDA's costs-of-production (COP) data series dates back to 1975. This report is a compilation of these costs for the history of the COP project. Thirteen major field crops are included, with costs of production at both the national and regional level. The budgets correspond to those published annually by the Economic Research Service (ERS) in Economic Indicators of the Farm Sector: Costs of Production.

Keywords: Costs of production, costs and returns, crops, enterprise budgets

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Costs of Production for Major U.S. Crops, 1975-87

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Methodology

USDA's costs-of-production (COP) data series dates back to 1975. Since then, the number of enterprises has been expanded and the methodology has been improved. This report is a compilation of these costs for the history of the COP project. Eleven major field crops are included, with costs of production at both the regional and national level. The budgets correspond to those published annually by the Economic Research Service (ERS) in Economic Indicators of the Farm Sector: Costs of Production.

ERS gathers COP data through producer surveys. The agency conducted its first Cost of Production Survey (COPS) in 1978, covering all major field crops in the major producing States. It focused primarily on the physical inputs used on the crop (for example, seeding rate, pounds of fertilizer, machines used in the field, and the times over for each field operation). Prices for these inputs and engineering relationships among operations were added from other sources to give a cost for each input per planted acre of the crop. The survey was repeated in 1982 and 1983. Between the survey years, prices were updated to derive annual COP estimates.

For the 1984 production year, ERS instituted the Farm Costs and Returns Survey (FCRS), replacing the COPS. The FCRS is a full-probability, random sample of producers that collects not only COP data, but also whole-farm financial data. The COP questions in the FCRS still focus on physical inputs, but costs for overhead and interest, which are not enterprise specific, can be more accurately estimated with the whole-farm data.

The FCRS is an annual survey of about 26,000 farmers and ranchers, but due to budget constraints not every COP commodity is surveyed every year. Rather, each commodity is on a 4-year rotation. Between survey years, prices are updated for new production costs as was done before 1984. The annual costs in this report, then, represent various production years, depending on the survey year. For example, all costs for 1975-80 are based

on the 1978 COPS. Costs for 1981-87 come from different years depending on the crop:

<u>Commodity</u>	<u>Production year</u>	<u>Commodity</u>	<u>Production year</u>
Corn	1982 & 1983	Soybeans	1986
Sorghum	1986	Sunflowers	1986
Barley	1982 & 1983	Peanuts	1982
Oats	1983	Flaxseed	1983
Wheat	1986	Cotton	1982
Rice	1984	Sugar beets	1980 & 1984
		Sugarcane	1980 & 1984

COP budgets published by the U.S. Senate prior to Economic Indicators of the Farm Sector: Costs of Production, 1982 (December 1983) were in a different format than is used today. They consisted only of cash expenses and capital replacement, with three different land charges. The current COP format adds a value of production (to allow estimating net returns) and opportunity costs of the producer's owned inputs (unpaid labor and the costs of using capital for farming rather than in some other investment).

To make the 13-year series consistent between years, ERS has made some adjustments to certain of the individual inputs. For example, before 1981, technical services like soil testing were included in custom operation costs and not listed separately. This category and another for miscellaneous could not be broken out for most crops prior to 1981. The other variable cash expenses are identical for all published budgets. For items like overhead and interest, early budgets used different data sources and methods. The overhead and interest expenses in this report are derived from more current data and supersede any earlier published estimates (pre-1982 reports). For sunflowers, sugar beets, and sugarcane, data were not collected for some of the early years and are not currently available.

For all costs except "miscellaneous" and "technical services," the current methodology and data sources have been backdated to provide a consistent series. In the case of "taxes and insurance," there is a jump between 1979 and 1980 where real estate tax data did not match precisely, particularly in the budgets covering the Corn Belt and Lake States regions.

For a complete description of definitions and methods, see Economic Indicators of the Farm Sector: Costs of Production, 1987.

COP Estimates Prior to 1975

Cost-of-production budgets prior to 1975 consistent with current USDA definitions and methods are not available. Many States, however, have similar COP projects for the major crops grown in

their particular State. Using one of these State budgets, particularly with respect to variable cash expenses, would probably provide an acceptable proxy. Choosing a State that is a major grower of the crop (for example, Kansas for wheat, Iowa or Illinois for corn and soybeans, or Texas for cotton) is important.

Table 1--Corn production costs, U.S., 1975-87

Item	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Dollars per planted acre													
Gross value (excl. direct Gov't. payments):													
Primary crop	217.50	187.11	180.12	225.94	275.97	279.46	260.17	243.63	252.90	273.23	252.63	164.48	200.08
Total	217.50	187.11	180.12	225.94	275.97	279.46	260.17	243.63	252.90	273.23	252.63	164.48	200.08
Cash expenses:													
Seed	9.30	9.49	11.06	11.61	12.41	14.24	16.16	16.45	16.65	18.03	18.48	16.82	16.64
Fertilizer	38.17	34.39	34.36	33.00	37.55	47.29	51.93	49.66	48.03	50.93	50.99	41.99	39.47
Lime and gypsum	.80	1.01	.99	1.09	1.18	1.38	1.48	1.52	1.59	1.63	1.66	1.63	1.70
Chemicals	11.65	10.01	8.95	13.15	13.27	14.24	15.56	18.24	19.12	19.51	19.51	19.36	18.93
Custom operations	2.84	3.10	3.43	4.15	4.44	4.76	5.43	6.73	6.69	6.89	6.84	6.56	6.93
Fuel, lube, and electricity	5.76	6.19	6.81	8.12	12.53	17.12	20.17	18.35	15.96	14.10	15.75	11.17	12.64
Repairs	6.19	6.14	6.29	7.39	8.99	10.25	11.98	10.75	10.34	11.12	11.05	11.14	11.12
Hired labor	2.23	2.63	3.01	2.74	3.13	3.39	3.87	3.78	3.52	1.62	4.02	4.28	4.32
Purchased irrigation water	.05	.05	.06	.07	.08	.09	.15	.35	.35	.36	.35	.34	.35
Drying	4.34	4.67	5.13	6.12	6.36	6.62	8.30	6.64	4.99	5.35	7.12	6.85	6.35
Miscellaneous	.00	.00	.00	.00	.00	.00	.01	.23	.23	.23	.23	.22	.23
Technical services	.00	.00	.00	.00	.00	.00	.05	.83	.83	.81	.80	.81	1.22
Total, variable cash expenses	81.34	77.69	80.09	87.44	99.94	119.38	135.09	133.52	128.30	130.58	136.81	121.17	119.90
General farm overhead	14.44	15.55	16.59	12.35	14.83	16.60	15.43	16.20	15.22	15.37	10.93	9.39	13.59
Taxes and insurance	4.74	4.96	5.64	6.12	6.94	14.55	14.92	13.93	13.45	17.00	17.47	17.82	19.18
Interest on operating loans	10.40	9.62	9.20	10.31	12.50	15.01	19.13	19.67	19.15	21.20	12.60	7.79	7.61
Interest on real estate	19.52	19.51	19.48	19.48	19.57	19.68	22.80	27.64	25.95	24.71	20.12	12.83	15.80
Total, fixed cash expenses	49.09	49.64	50.90	48.26	53.84	65.84	72.28	77.44	73.77	78.28	61.12	47.83	56.18
Total, cash expenses	130.43	127.34	131.00	135.70	153.78	185.22	207.37	210.96	202.07	208.86	197.93	169.00	176.08
Gross value less cash expenses (excl. direct Gov't. payments)	87.07	59.78	49.12	90.25	122.19	94.24	52.80	32.67	50.83	64.37	54.70	-4.52	24.00
Capital replacement	14.28	17.63	18.56	19.17	23.00	25.29	28.01	33.25	33.56	33.73	34.62	34.82	35.36
Gross value less cash expenses and replacement (excl. direct Gov't. payments)	72.79	42.15	30.56	71.08	99.19	68.95	24.79	-.58	17.27	30.64	20.08	-39.34	-11.36
Economic (full ownership) costs:													
Variable cash expenses	81.34	77.69	80.09	87.44	99.94	119.38	135.09	133.52	128.30	130.58	136.81	121.17	119.90
General farm overhead	14.44	15.55	16.59	12.35	14.83	16.60	15.43	16.20	15.22	15.37	10.93	9.39	13.59
Taxes and insurance	4.74	4.96	5.64	6.12	6.94	14.55	14.92	13.93	13.45	17.00	17.47	17.82	19.18
Capital replacement	14.28	17.63	18.56	19.17	23.00	25.29	28.01	33.25	33.56	33.73	34.62	34.82	35.36
Allocated returns to owned inputs:													
Return to operating capital	2.30	1.94	1.97	2.77	3.99	5.57	7.42	6.03	4.75	5.42	4.36	2.74	2.95
Return to other nonland capital	4.33	5.01	4.70	4.54	5.35	5.31	5.41	5.89	5.19	6.78	6.56	6.80	7.91
Net land return	54.80	47.96	47.18	60.17	75.11	66.27	61.32	51.29	47.95	67.63	54.82	32.35	40.37
Unpaid labor	6.34	7.50	8.56	7.80	8.90	9.63	11.00	10.74	10.03	13.10	11.45	12.18	12.28
Total, economic costs	182.57	178.24	183.30	200.36	238.07	262.60	278.60	270.86	258.45	289.61	277.02	237.27	251.55
Residual returns to management and risk (excl. direct Gov't. payments)	34.94	8.88	-3.18	25.59	37.90	16.86	-18.43	-27.23	-5.55	-16.38	-24.39	-72.79	-51.47
Harvest-period price (dollars/bu.)	2.54	2.15	2.03	2.25	2.52	3.10	2.38	2.14	3.21	2.58	2.15	1.39	1.63
Yield (bu./planted acre)	85.70	87.10	88.80	100.50	109.60	90.15	109.28	113.76	78.76	105.79	117.29	117.92	122.49

Table 2--Corn production costs, Lake States and Corn Belt, 1975-87

Item	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Dollars per planted acre													
Gross value (excl. direct Gov't. payments):													
Primary crop	228.30	189.46	190.21	234.18	286.21	299.44	268.66	250.64	256.72	275.04	255.32	168.51	204.59
Total	228.30	189.46	190.21	234.18	286.21	299.44	268.66	250.64	256.72	275.04	255.32	168.51	204.59
Cash expenses:													
Seed	9.51	9.52	11.20	11.77	12.62	14.66	16.64	16.86	17.39	18.62	18.84	17.08	16.88
Fertilizer	39.16	35.07	35.75	34.18	40.02	51.60	55.01	53.07	51.38	53.96	53.66	45.34	42.24
Lime and gypsum	.85	.93	.95	1.13	1.24	1.44	1.54	1.20	1.25	1.32	1.38	1.40	1.55
Chemicals	12.13	10.48	9.44	13.93	14.23	15.13	16.47	18.88	19.81	20.31	20.29	20.11	19.60
Custom operations	2.56	2.69	3.11	3.69	3.95	4.31	4.76	6.34	6.20	6.45	6.54	6.38	6.93
Fuel, lube, and electricity	4.01	4.16	4.77	5.58	9.23	12.62	15.19	14.79	11.96	10.51	11.89	7.65	9.29
Repairs	5.60	5.36	5.72	6.60	7.76	8.63	10.15	9.57	8.76	9.75	9.64	9.78	9.80
Hired labor	2.03	2.26	2.57	2.50	2.88	3.10	3.57	3.44	3.07	1.44	3.59	3.81	3.94
Drying	5.18	5.37	6.16	7.21	7.38	7.77	9.80	7.80	5.84	6.16	8.31	8.17	7.18
Miscellaneous	.00	.00	.00	.00	.00	.00	.00	.16	.16	.16	.16	.16	.16
Technical services	.00	.00	.00	.00	.00	.00	.00	1.03	1.05	1.02	1.02	1.02	1.57
Total, variable cash expenses	81.03	75.85	79.68	86.59	99.31	119.26	133.13	133.14	126.87	129.70	135.32	120.89	119.14
General farm overhead	14.77	15.69	16.71	12.02	14.85	16.46	15.38	16.82	14.28	14.61	10.49	8.89	13.17
Taxes and insurance	4.47	4.81	5.47	5.92	6.80	15.74	15.99	14.63	13.84	18.59	18.96	19.28	20.68
Interest on operating loans	10.02	9.27	8.87	9.94	12.05	14.47	18.82	19.92	18.89	20.84	13.16	7.81	7.53
Interest on real estate	20.71	20.70	20.67	20.66	20.76	20.88	24.35	28.53	26.88	26.45	21.16	13.85	16.02
Total, fixed cash expenses	49.98	50.48	51.72	48.54	54.46	67.55	74.54	79.90	73.89	80.49	63.77	49.83	57.40
Total, cash expenses	131.01	126.32	131.39	135.13	153.77	186.81	207.67	213.04	200.76	210.19	199.09	170.72	176.54
Gross value less cash expenses (excl. direct Gov't. payments)	97.29	63.14	58.82	99.05	132.44	112.63	60.99	37.60	55.96	64.85	56.23	-2.21	28.05
Capital replacement	13.51	15.74	16.90	18.01	21.02	22.02	25.04	34.01	34.11	34.18	34.87	35.06	35.43
Gross value less cash expenses and replacement (excl. direct Gov't. payments)	83.78	47.40	41.92	81.04	111.42	90.61	35.95	3.59	21.85	30.67	21.36	-37.27	-7.38
Economic (full ownership) costs:													
Variable cash expenses	81.03	75.85	79.68	86.59	99.31	119.26	133.13	133.14	126.87	129.70	135.32	120.89	119.14
General farm overhead	14.77	15.69	16.71	12.02	14.85	16.46	15.38	16.82	14.28	14.61	10.49	8.89	13.17
Taxes and insurance	4.47	4.81	5.47	5.92	6.80	15.74	15.99	14.63	13.84	18.59	18.96	19.28	20.68
Capital replacement	13.51	15.74	16.90	18.01	21.02	22.02	25.04	34.01	34.11	34.18	34.87	35.06	35.43
Allocated returns to owned inputs:													
Return to operating capital	2.36	1.94	2.01	2.77	4.00	5.65	7.44	6.05	4.76	5.44	4.34	2.74	2.95
Return to other nonland capital	4.14	4.51	4.33	4.31	4.94	4.71	4.87	5.98	5.18	6.80	6.55	6.80	7.84
Net land return	63.05	53.60	54.78	67.24	87.01	75.76	68.96	54.58	50.11	75.85	60.58	36.05	43.68
Unpaid labor	5.78	6.44	7.32	7.11	8.21	8.81	10.16	9.80	8.72	11.66	10.21	10.84	11.22
Total, economic costs	189.12	178.58	187.19	203.97	246.14	268.41	280.97	275.00	257.87	296.83	281.32	240.56	254.11
Residual returns to management and risk (excl. direct Gov't. payments)	39.18	10.88	3.02	30.21	40.07	31.03	-12.31	-24.36	-1.15	-21.79	-26.00	-72.05	-49.52
Harvest-period price (dollars/bu.)	2.49	2.10	1.99	2.20	2.47	3.04	2.32	2.09	3.17	2.53	2.09	1.33	1.61
Yield (bu./planted acre)	91.80	90.00	95.70	106.30	116.00	98.50	115.68	120.06	81.02	108.65	121.96	126.25	126.86

Table 3--Corn production costs, Northeast, 1975-87

Item	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Dollars per planted acre													
Gross value (excl. direct Gov't. payments):													
Primary crop	228.87	204.64	184.04	224.83	262.65	274.18	241.99	214.90	272.93	313.71	268.95	160.75	167.93
Total	228.87	204.64	184.04	224.83	262.65	274.18	241.99	214.90	272.93	313.71	268.95	160.75	167.93
Cash expenses:													
Seed	8.22	9.15	10.61	11.23	12.42	13.42	14.60	14.56	14.22	16.16	17.46	16.19	16.18
Fertilizer	43.06	33.87	39.01	39.08	42.03	52.48	56.82	47.90	44.19	46.40	45.63	39.11	36.88
Lime and gypsum	.00	2.07	2.06	1.25	1.35	1.49	1.63	8.38	8.32	8.81	8.72	8.47	9.31
Chemicals	6.65	10.71	9.59	14.05	14.33	15.21	16.55	18.14	19.05	19.47	19.50	19.34	18.88
Custom operations	3.98	4.52	4.67	5.50	5.88	6.37	6.95	8.11	7.93	8.47	11.28	8.79	8.97
Fuel, lube, and electricity	4.86	5.43	5.58	6.48	10.00	13.25	16.04	14.07	12.21	11.86	12.79	9.10	9.90
Repairs	6.12	6.31	6.04	6.91	7.71	8.33	9.78	10.58	10.25	12.27	12.08	12.64	12.47
Hired labor	3.22	2.79	3.16	3.39	3.63	3.81	4.33	4.20	3.99	1.86	4.61	5.20	5.88
Drying	3.96	4.43	4.55	5.28	5.71	5.95	8.28	5.19	4.64	5.26	6.40	5.30	5.15
Miscellaneous	.00	.00	.00	.00	.00	.00	.00	.28	.28	.28	.28	.27	.28
Technical services	.00	.00	.00	.00	.00	.00	.00	.15	.14	.14	.14	.14	.14
Total, variable cash expenses	80.09	79.28	85.26	93.17	103.06	120.31	134.98	131.56	125.22	130.99	138.90	124.55	124.05
General farm overhead	13.68	14.53	15.49	18.27	26.44	36.05	21.86	14.40	25.19	25.60	20.60	24.00	21.76
Taxes and insurance	4.66	4.61	5.24	5.84	6.58	12.79	14.40	15.25	16.34	17.64	18.69	20.23	20.71
Interest on operating loans	9.09	8.41	8.04	9.01	10.93	13.12	11.13	13.53	12.65	18.91	10.95	3.54	8.19
Interest on real estate	38.57	38.56	38.50	38.49	38.67	38.89	22.81	26.95	18.96	19.00	23.56	16.96	16.93
Total, fixed cash expenses	66.00	66.11	67.27	71.61	82.61	100.85	70.20	70.13	73.14	81.15	73.80	64.73	67.59
Total, cash expenses	146.08	145.39	152.53	164.78	185.67	221.16	205.18	204.69	198.36	212.14	212.70	189.28	191.64
Gross value less cash expenses (excl. direct Gov't. payments)	82.79	59.25	31.51	60.05	76.97	53.02	36.81	13.21	74.57	101.57	56.25	-28.53	-23.71
Capital replacement	15.75	14.50	15.81	17.50	19.78	21.32	23.51	26.18	26.54	29.65	30.19	32.26	32.19
Gross value less cash expenses and replacement (excl. direct Gov't. payments)	67.04	44.75	15.70	42.55	57.19	31.70	13.30	-12.97	48.03	71.92	26.06	-60.79	-55.90
Economic (full ownership) costs:													
Variable cash expenses	80.09	79.28	85.26	93.17	103.06	120.31	134.98	131.56	125.22	130.99	138.90	124.55	124.05
General farm overhead	13.68	14.53	15.49	18.27	26.44	36.05	21.86	14.40	25.19	25.60	20.60	24.00	21.76
Taxes and insurance	4.66	4.61	5.24	5.84	6.58	12.79	14.40	15.25	16.34	17.64	18.69	20.23	20.71
Capital replacement	15.75	14.50	15.81	17.50	19.78	21.32	23.51	26.18	26.54	29.65	30.19	32.26	32.19
Allocated returns to owned inputs:													
Return to operating capital	2.04	1.72	2.01	2.73	3.90	5.28	6.97	5.37	4.14	4.76	3.98	2.47	2.67
Return to other nonland capital	4.76	4.10	3.99	4.13	4.58	4.47	4.52	5.20	4.65	6.55	6.32	6.94	7.93
Net land return	11.66	20.63	20.16	27.83	32.87	27.44	28.60	24.50	27.86	29.83	26.31	22.16	22.79
Unpaid labor	9.18	7.94	8.98	9.63	10.35	10.86	12.34	11.96	11.35	15.09	13.14	14.81	16.75
Total, economic costs	141.81	147.31	156.95	179.10	207.56	238.52	247.18	234.42	241.29	260.10	258.12	247.42	248.84
Residual returns to management and risk (excl. direct Gov't. payments)	87.06	57.33	27.09	45.73	55.09	35.66	-5.19	-19.52	31.64	53.61	10.83	-86.67	-80.91
Harvest-period price (dollars/bu.)	2.80	2.37	2.24	2.48	2.78	3.50	2.52	2.24	3.70	2.94	2.45	1.70	1.86
Yield (bu./planted acre)	81.70	86.30	82.20	90.60	94.50	78.41	95.98	95.75	73.69	106.55	109.75	94.33	90.50

Table 4--Corn production costs, Northern Plains, 1975-87

Item	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Dollars per planted acre													
Gross value (excl. direct Gov't. payments):													
Primary crop	190.17	170.54	185.46	226.96	268.98	248.63	256.86	232.55	244.74	263.79	257.16	167.52	205.47
Total	190.17	170.54	185.46	226.96	268.98	248.63	256.86	232.55	244.74	263.79	257.16	167.52	205.47
Cash expenses:													
Seed	9.13	10.00	11.53	11.09	11.62	13.41	15.97	16.21	15.38	17.07	17.92	16.61	15.96
Fertilizer	25.81	23.12	20.33	20.00	23.50	23.53	31.67	29.37	28.91	33.44	38.45	25.28	24.32
Lime and gypsum	.02	.02	.03	.03	.04	.04	.04	.03	.03	.02	.02	.04	.03
Chemicals	9.22	8.27	7.26	8.87	8.84	9.59	10.21	16.21	17.09	16.98	17.17	17.36	16.78
Custom operations	1.95	2.22	2.77	3.27	3.56	3.68	4.08	5.14	5.22	5.13	5.39	5.40	5.26
Fuel, lube, and electricity	10.10	11.32	14.06	16.35	24.88	35.24	42.02	31.95	29.44	25.75	28.73	23.07	25.21
Repairs	7.56	7.81	9.03	10.36	14.42	17.88	21.30	15.19	15.75	15.74	15.83	15.96	16.18
Hired labor	2.43	3.43	4.18	2.96	3.57	4.06	4.65	4.57	4.52	2.05	5.04	5.46	5.11
Purchased irrigation water	.17	.20	.25	.29	.31	.36	.41	1.35	1.35	1.37	1.36	1.31	1.37
Drying	2.43	2.73	3.39	3.94	4.22	4.14	5.79	4.29	3.79	3.85	5.10	4.85	4.85
Miscellaneous	.00	.00	.00	.00	.00	.00	.00	.28	.28	.28	.28	.27	.28
Technical services	.00	.00	.00	.00	.00	.00	.00	.47	.49	.45	.46	.49	.48
Total, variable cash expenses	68.82	69.11	72.83	77.16	94.96	111.93	136.14	125.05	122.25	122.14	135.75	116.11	115.83
General farm overhead	17.24	18.30	19.50	12.86	15.15	14.52	16.89	15.71	17.81	17.77	11.66	9.08	15.88
Taxes and insurance	5.94	5.46	6.37	7.12	7.88	15.52	16.37	14.92	15.39	16.63	17.38	17.67	18.12
Interest on operating loans	10.12	9.35	8.95	10.02	12.16	14.60	24.02	20.25	25.60	26.08	14.02	8.65	8.59
Interest on real estate	13.70	13.70	13.68	13.68	13.74	13.82	21.29	26.68	25.52	22.14	17.12	10.54	18.19
Total, fixed cash expenses	47.00	46.82	48.50	43.68	48.93	58.46	78.57	77.56	84.32	82.62	60.18	45.94	60.78
Total, cash expenses	115.82	115.93	121.33	120.84	143.89	170.39	214.71	202.61	206.57	204.76	195.93	162.05	176.61
Gross value less cash expenses (excl. direct Gov't. payments)	74.34	54.61	64.13	106.12	125.09	78.24	42.15	29.94	38.17	59.03	61.23	5.47	28.86
Capital replacement	17.21	23.44	24.80	24.61	33.10	41.53	45.70	36.38	38.09	37.27	39.73	39.98	40.24
Gross value less cash expenses and replacement (excl. direct Gov't. payments)	57.13	31.17	39.33	81.51	91.99	36.71	-3.55	-6.44	.08	21.76	21.50	-34.51	-11.38
Economic (full ownership) costs:													
Variable cash expenses	68.82	69.11	72.83	77.16	94.96	111.93	136.14	125.05	122.25	122.14	135.75	116.11	115.83
General farm overhead	17.24	18.30	19.50	12.86	15.15	14.52	16.89	15.71	17.81	17.77	11.66	9.08	15.88
Taxes and insurance	5.94	5.46	6.37	7.12	7.88	15.52	16.37	14.92	15.39	16.63	17.38	17.67	18.12
Capital replacement	17.21	23.44	24.80	24.61	33.10	41.53	45.70	36.38	38.09	37.27	39.73	39.98	40.24
Allocated returns to owned inputs:													
Return to operating capital	1.84	1.73	1.58	2.41	3.78	4.97	7.11	5.85	4.59	5.26	4.47	2.71	2.88
Return to other nonland capital	5.23	6.67	6.30	5.84	7.71	8.54	8.92	6.62	6.18	7.84	7.75	8.01	9.37
Net land return	44.28	39.30	42.86	55.77	60.90	53.86	50.48	49.44	49.73	56.25	47.69	23.68	34.67
Unpaid labor	6.91	9.78	11.89	8.41	10.17	11.54	13.25	13.00	12.86	16.56	14.34	15.55	14.54
Total, economic costs	167.47	173.78	186.13	194.19	233.65	262.41	294.86	266.98	266.90	279.72	278.77	232.78	251.53
Residual returns to management and risk (excl. direct Gov't. payments)	22.70	-3.24	-.67	32.77	35.34	-13.78	-38.00	-34.43	-22.16	-15.93	-21.61	-65.26	-46.06
Harvest-period price (dollars/bu.)	2.57	2.18	2.05	2.28	2.55	3.12	2.41	2.28	3.08	2.55	2.21	1.44	1.61
Yield (bu./planted acre)	74.00	78.40	90.30	99.70	105.50	79.58	106.66	102.12	79.40	103.59	116.53	116.41	127.77

Table 5--Corn production costs, Southeast, 1975-87

Item	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Dollars per planted acre													
Gross value (excl. direct Gov't. payments):													
Primary crop	170.09	175.19	97.88	162.12	213.25	176.68	191.38	199.23	205.85	248.12	205.57	111.18	142.41
Total	170.09	175.19	97.88	162.12	213.25	176.68	191.38	199.23	205.85	248.12	205.57	111.18	142.41
Cash expenses:													
Seed	8.22	8.48	9.99	11.76	12.68	13.63	14.52	15.13	15.04	17.02	17.26	15.42	15.85
Fertilizer	49.90	44.65	45.26	44.34	45.44	57.07	60.39	60.75	60.02	62.38	57.42	51.43	49.10
Lime and gypsum	1.99	2.57	2.51	2.75	3.04	3.53	3.48	4.20	4.06	4.35	4.18	4.16	4.11
Chemicals	13.22	9.77	8.80	12.94	13.16	14.15	16.87	16.60	17.49	17.96	18.03	17.72	17.36
Custom operations	5.21	6.81	4.37	6.98	7.82	7.91	9.84	10.34	9.94	10.69	8.37	7.83	8.58
Fuel, lube, and electricity	4.91	6.32	4.03	6.35	9.58	13.86	16.73	15.62	13.08	11.57	12.88	7.69	9.86
Repairs	5.63	6.69	3.98	6.17	6.85	7.85	9.66	10.16	9.50	10.79	10.61	9.68	10.26
Hired labor	2.82	3.01	3.10	3.02	3.36	3.60	3.94	3.98	3.92	1.78	4.36	4.35	4.68
Drying	2.49	3.20	2.05	3.22	3.89	3.44	3.28	3.49	2.12	3.18	3.76	2.85	3.35
Miscellaneous	.00	.00	.00	.00	.00	.00	.12	.18	.18	.18	.18	.17	.18
Technical services	.00	.00	.00	.00	.00	.00	.20	.20	.18	.19	.17	.17	.18
Total, variable cash expenses	94.39	91.50	84.09	97.53	105.82	125.04	139.03	140.64	135.53	140.09	137.22	121.47	123.51
General farm overhead	8.96	9.52	10.14	10.48	10.06	12.51	9.42	10.99	10.26	10.44	7.38	4.76	7.94
Taxes and insurance	4.60	4.97	5.27	5.50	6.15	6.32	6.54	6.68	6.68	7.47	7.80	7.79	8.22
Interest on operating loans	12.89	11.92	11.40	12.78	15.50	18.61	14.28	17.11	9.96	14.85	5.45	4.97	4.35
Interest on real estate	11.08	11.07	11.06	11.06	11.11	11.17	14.47	24.37	23.03	19.35	16.98	6.49	8.21
Total, fixed cash expenses	37.53	37.49	37.87	39.82	42.81	48.61	44.71	59.15	49.93	52.11	37.61	24.01	28.72
Total, cash expenses	131.92	128.99	121.96	137.34	148.63	173.65	183.74	199.79	185.46	192.20	174.83	145.48	152.23
Gross value less cash expenses (excl. direct Gov't. payments)	38.16	46.20	-24.08	24.78	64.62	3.03	7.64	-.56	20.39	55.92	30.74	-34.30	-9.82
Capital replacement	14.32	17.08	15.47	16.28	18.14	19.62	21.25	23.19	22.93	24.77	24.05	22.83	23.70
Gross value less cash expenses and replacement (excl. direct Gov't. payments)	23.84	29.12	-39.55	8.50	46.48	-16.59	-13.61	-23.75	-2.54	31.15	6.69	-57.13	-33.52
Economic (full ownership) costs:													
Variable cash expenses	94.39	91.50	84.09	97.53	105.82	125.04	139.03	140.64	135.53	140.09	137.22	121.47	123.51
General farm overhead	8.96	9.52	10.14	10.48	10.06	12.51	9.42	10.99	10.26	10.44	7.38	4.76	7.94
Taxes and insurance	4.60	4.97	5.27	5.50	6.15	6.32	6.54	6.68	6.68	7.47	7.80	7.79	8.22
Capital replacement	14.32	17.08	15.47	16.28	18.14	19.62	21.25	23.19	22.93	24.77	24.05	22.83	23.70
Allocated returns to owned inputs:													
Return to operating capital	2.67	2.02	2.17	3.01	4.19	5.86	7.44	5.90	4.71	5.37	4.10	2.64	2.87
Return to other nonland capital	4.12	4.60	3.72	3.66	4.00	3.95	3.86	4.05	3.48	4.82	4.51	4.31	5.19
Net land return	29.18	30.93	21.17	30.51	40.25	36.40	39.52	36.70	33.48	42.84	35.43	22.81	25.92
Unpaid labor	8.01	8.56	8.81	8.59	9.57	10.23	11.20	11.31	11.16	14.41	12.41	12.37	13.32
Total, economic costs	166.26	169.19	150.83	175.57	198.18	219.93	238.26	239.47	228.23	250.21	232.90	198.98	210.67
Residual returns to management and risk (excl. direct Gov't. payments)	3.83	6.00	-52.95	-13.44	15.07	-43.25	-46.88	-40.24	-22.38	-2.09	-27.33	-87.80	-68.26
Harvest-period price (dollars/bu.)	2.75	2.33	2.20	2.44	2.73	3.39	2.62	2.14	3.67	2.79	2.34	1.68	1.82
Yield (bu./planted acre)	61.80	75.20	44.50	66.50	78.10	52.13	73.13	93.29	56.04	88.90	87.79	66.30	78.35

Table 6--Corn production costs, Southwest, 1975-87

Item	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Dollars per planted acre													
Gross value (excl. direct Gov't. payments):													
Primary crop	342.02	309.43	250.53	286.01	329.36	339.72	382.14	327.02	331.10	309.06	290.71	227.67	236.68
Total	342.02	309.43	250.53	286.01	329.36	339.72	382.14	327.02	331.10	309.06	290.71	227.67	236.68
Cash expenses:													
Seed	13.04	10.81	9.92	10.64	10.64	11.11	12.80	13.26	15.11	14.99	18.50	16.97	16.86
Fertilizer	42.35	32.48	30.28	32.72	30.60	34.94	53.40	52.64	48.80	47.78	47.21	41.59	36.29
Lime and gypsum	.00	.00	.00	.00	.00	.00	.34	.41	.44	.58	.57	.63	.74
Chemicals	17.79	7.48	6.19	19.84	17.34	18.92	17.81	19.09	19.74	19.27	19.19	18.80	18.06
Custom operations	7.53	8.65	8.05	8.86	9.22	10.08	14.62	15.15	15.22	14.35	13.18	12.34	11.75
Fuel, lube, and electricity	30.33	34.29	31.71	34.40	34.03	44.85	46.82	49.86	48.18	45.84	48.69	38.67	40.43
Repairs	14.82	15.45	13.31	14.24	15.41	18.60	18.08	18.21	19.14	17.43	17.35	17.08	17.06
Hired labor	7.38	6.06	6.49	5.76	5.30	5.81	6.73	7.15	6.81	2.68	7.11	7.22	7.34
Purchased irrigation water	.94	1.07	1.00	1.10	1.21	1.30	4.48	4.60	4.62	4.70	4.66	4.49	4.68
Drying	3.60	4.07	3.76	4.08	4.06	4.06	1.29	1.36	1.32	1.25	1.34	1.26	1.16
Miscellaneous	.00	.00	.00	.00	.00	.00	.00	1.63	1.64	1.67	1.65	1.59	1.66
Technical services	.00	.00	.00	.00	.00	.00	1.69	.41	.41	.34	.34	.34	.34
Total, variable cash expenses	137.79	120.36	110.72	131.64	127.81	149.67	178.06	183.78	181.43	170.88	179.79	160.98	156.38
General farm overhead	29.59	31.42	33.49	17.41	18.55	21.11	23.25	23.63	23.01	22.30	16.23	20.70	16.37
Taxes and insurance	5.09	6.75	7.61	7.28	7.58	9.69	9.43	9.19	9.27	9.57	9.87	10.07	10.08
Interest on operating loans	15.24	14.09	13.47	15.10	18.31	21.99	32.12	28.18	26.75	24.87	15.63	17.69	12.45
Interest on real estate	29.45	29.45	29.40	29.39	29.53	29.70	23.22	19.64	26.45	21.28	17.69	17.80	12.53
Total, fixed cash expenses	79.37	81.71	83.97	69.19	73.97	82.49	88.02	80.64	85.48	78.02	59.42	66.26	51.43
Total, cash expenses	217.16	202.07	194.69	200.82	201.78	232.16	266.08	264.42	266.91	248.90	239.21	227.24	207.81
Gross value less cash expenses (excl. direct Gov't. payments)	124.86	107.35	55.84	85.19	127.58	107.56	116.06	62.60	64.19	60.16	51.50	.43	28.87
Capital replacement	19.15	41.71	39.85	27.80	31.53	39.54	34.40	36.61	38.18	35.94	37.57	36.97	36.80
Gross value less cash expenses and replacement (excl. direct Gov't. payments)	105.71	65.64	15.99	57.39	96.05	68.02	81.66	25.99	26.01	24.22	13.93	-36.54	-7.93
Economic (full ownership) costs:													
Variable cash expenses	137.79	120.36	110.72	131.64	127.81	149.67	178.06	183.78	181.43	170.88	179.79	160.98	156.38
General farm overhead	29.59	31.42	33.49	17.41	18.55	21.11	23.25	23.63	23.01	22.30	16.23	20.70	16.37
Taxes and insurance	5.09	6.75	7.61	7.28	7.58	9.69	9.43	9.19	9.27	9.57	9.87	10.07	10.08
Capital replacement	19.15	41.71	39.85	27.80	31.53	39.54	34.40	36.61	38.18	35.94	37.57	36.97	36.80
Allocated returns to owned inputs:													
Return to operating capital	3.28	2.90	2.58	4.06	5.00	6.71	10.01	8.32	6.51	6.94	5.74	3.68	3.91
Return to other nonland capital	5.27	10.74	9.16	5.97	6.66	7.67	6.01	6.12	5.73	6.66	6.49	6.54	7.49
Net land return	47.24	35.76	26.12	41.90	40.05	57.65	58.02	63.67	63.52	60.12	56.66	42.71	44.90
Unpaid labor	21.02	17.26	18.48	16.38	15.08	16.55	19.17	20.35	19.39	21.72	20.22	20.56	20.89
Total, economic costs	268.43	266.90	248.01	252.46	252.26	308.59	338.35	351.66	347.04	334.13	332.58	302.21	296.82
Residual returns to management and risk (excl. direct Gov't. payments)	73.59	42.52	2.52	33.56	77.10	31.13	43.79	-24.64	-15.94	-25.07	-41.87	-74.54	-60.14
Harvest-period price (dollars/bu.)	3.14	2.66	2.51	2.78	3.11	3.64	3.24	2.99	3.25	3.07	2.63	1.95	1.94
Yield (bu./planted acre)	109.00	116.50	99.90	102.90	105.80	93.28	117.90	109.35	101.93	100.78	110.55	116.71	122.04

Table 7--Grain sorghum production costs, U.S., 1975-87

Item	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Dollars per planted acre													
Gross value (excl. direct Gov't. payments):													
Primary crop	108.91	93.69	98.79	152.12	144.15	131.17	141.50	121.36	131.58	123.73	124.99	91.57	96.44
Total	108.91	93.69	98.79	152.12	144.15	131.17	141.50	121.36	131.58	123.73	124.99	91.57	96.44
Cash expenses:													
Seed	3.10	3.18	3.56	2.66	2.49	2.74	3.18	3.70	3.89	3.76	3.81	3.81	3.40
Fertilizer	17.01	12.63	12.36	12.33	14.87	15.62	18.61	19.52	18.53	19.76	20.34	17.65	15.39
Lime and gypsum	.00	.00	.00	.00	.00	.00	.03	.63	.59	.73	.00	.00	.00
Chemicals	3.97	3.33	3.08	6.25	6.22	6.70	7.26	8.64	9.26	9.41	9.71	9.73	10.11
Custom operations	1.73	1.86	2.38	2.50	2.69	2.93	3.45	3.95	3.75	3.54	3.90	3.94	3.79
Fuel, lube, and electricity	6.11	6.48	8.23	8.52	12.51	16.59	19.26	18.59	16.61	14.25	13.76	9.33	10.80
Repairs	6.61	6.47	7.65	7.81	9.34	10.52	11.76	10.05	10.30	9.58	7.75	7.87	7.97
Hired labor	1.88	2.11	2.33	2.01	2.29	2.36	2.67	2.73	2.63	1.77	2.39	2.54	2.47
Purchased irrigation water	.09	.10	.12	.13	.08	.09	.25	.35	.30	.31	.13	.13	.13
Drying	.58	.62	.78	.81	.93	.71	.79	.53	.47	.55	.76	.70	.62
Miscellaneous	.00	.00	.00	.00	.00	.00	.00	.30	.26	.27	.00	.00	.00
Technical services	.00	.00	.00	.00	.00	.00	.18	.17	.17	.17	.06	.06	.06
Total, variable cash expenses	41.07	36.78	40.49	43.02	51.42	58.26	67.44	69.16	66.76	64.11	62.61	55.75	54.74
General farm overhead	5.49	5.83	6.19	6.61	7.26	7.71	9.13	8.11	7.65	7.68	5.67	6.01	6.84
Taxes and insurance	4.89	4.86	5.53	5.92	6.71	8.03	8.47	7.45	7.82	8.34	7.51	7.78	8.19
Interest on operating loans	5.04	4.66	4.45	4.99	6.06	7.27	12.83	10.69	10.43	10.59	6.63	5.51	4.40
Interest on real estate	7.15	7.15	7.14	7.14	7.17	7.21	10.51	11.50	10.33	9.35	7.08	5.95	6.94
Total, fixed cash expenses	22.57	22.50	23.31	24.66	27.20	30.22	40.94	37.79	36.23	35.96	26.89	25.25	26.37
Total, cash expenses	63.64	59.28	63.80	67.68	78.62	88.48	108.38	106.91	102.99	100.07	89.50	81.00	81.11
Gross value less cash expenses (excl. direct Gov't. payments)	45.26	34.41	34.99	84.44	65.54	42.69	33.12	14.45	28.59	23.66	35.49	10.57	15.33
Capital replacement	14.09	17.26	17.91	18.58	22.61	25.67	27.26	23.87	26.74	23.93	22.56	22.58	22.66
Gross value less cash expenses and replacement (excl. direct Gov't. payments)	31.17	17.15	17.08	65.86	42.93	17.02	5.86	-9.42	1.85	-.27	12.93	-12.01	-7.33
Economic (full ownership) costs:													
Variable cash expenses	41.07	36.78	40.49	43.02	51.42	58.26	67.44	69.16	66.76	64.11	62.61	55.75	54.74
General farm overhead	5.49	5.83	6.19	6.61	7.26	7.71	9.13	8.11	7.65	7.68	5.67	6.01	6.84
Taxes and insurance	4.89	4.86	5.53	5.92	6.71	8.03	8.47	7.45	7.82	8.34	7.51	7.78	8.19
Capital replacement	14.09	17.26	17.91	18.58	22.61	25.67	27.26	23.87	26.74	23.93	22.56	22.58	22.66
Allocated returns to owned inputs:													
Return to operating capital	1.16	.89	.92	1.21	1.83	2.38	3.33	2.90	2.29	2.42	2.17	1.39	1.46
Return to other nonland capital	4.03	4.62	4.28	4.15	4.96	5.15	4.99	4.10	4.04	4.73	4.11	4.25	4.95
Net land return	21.98	18.28	19.46	23.11	31.81	28.61	31.51	28.23	31.18	28.86	33.79	25.72	26.51
Unpaid labor	7.53	8.42	9.34	8.06	9.17	9.46	10.69	10.92	10.52	10.90	9.56	10.17	9.88
Total, economic costs	100.25	96.95	104.13	110.67	135.78	145.27	162.82	154.74	157.00	150.97	147.98	133.65	135.23
Residual returns to management and risk (excl. direct Gov't. payments)	8.66	-3.26	-5.34	41.46	8.38	-14.10	-21.32	-33.38	-25.42	-27.24	-22.99	-42.08	-38.79
Harvest-period price (dollars/bu.)	2.38	2.04	1.83	2.86	2.35	3.04	2.25	2.11	2.84	2.34	1.90	1.37	1.40
Yield (bu./planted acre)	45.80	46.00	54.10	53.20	61.40	43.16	62.95	57.64	46.29	52.81	65.89	66.91	68.79

Table 8--Grain sorghum production costs, Central Plains, 1975-87

Item	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Dollars per planted acre													
Gross value (excl. direct Gov't. payments):													
Primary crop	101.01	89.64	107.86	160.95	155.11	131.23	141.56	126.18	127.27	120.36	126.18	94.60	98.65
Total	101.01	89.64	107.86	160.95	155.11	131.23	141.56	126.18	127.27	120.36	126.18	94.60	98.65
Cash expenses:													
Seed	2.74	2.99	3.59	2.38	2.19	2.52	2.83	3.27	3.50	3.55	3.52	3.54	3.15
Fertilizer	16.43	12.15	12.34	12.39	15.06	16.51	17.57	19.66	18.08	20.66	20.64	18.02	15.84
Lime and gypsum	.00	.00	.00	.00	.00	.00	.00	1.19	.96	1.13	.00	.00	.00
Chemicals	4.67	4.47	4.06	6.39	6.44	6.93	7.53	9.87	10.26	10.46	11.76	11.80	11.95
Custom operations	.93	1.04	1.51	1.54	1.69	1.96	2.20	2.60	2.57	2.53	2.84	2.85	2.85
Fuel, lube, and electricity	3.84	4.21	6.09	6.11	9.68	13.42	17.70	15.20	14.06	11.34	10.19	7.01	8.47
Repairs	5.18	5.23	7.05	6.98	8.72	10.20	12.97	9.34	9.56	9.03	7.18	7.36	7.52
Hired labor	1.41	1.63	1.93	1.69	1.97	2.04	2.42	2.28	2.27	1.59	1.91	2.04	1.96
Purchased irrigation water	.00	.00	.00	.00	.00	.00	.00	.10	.09	.09	.00	.00	.00
Drying	.58	.63	.92	.92	1.05	.75	1.26	.93	.73	.80	1.09	1.01	.82
Miscellaneous	.00	.00	.00	.00	.00	.00	.00	.15	.13	.14	.00	.00	.00
Technical services	.00	.00	.00	.00	.00	.00	.00	.25	.24	.21	.09	.08	.09
Total, variable cash expenses	35.78	32.35	37.49	38.40	46.80	54.33	64.48	64.85	62.45	61.53	59.22	53.71	52.65
General farm overhead	5.79	6.13	6.53	6.52	7.64	7.37	8.75	8.77	7.76	7.75	5.25	4.86	7.30
Taxes and insurance	4.44	4.55	5.22	5.92	6.80	9.32	10.56	9.40	9.53	9.82	8.58	8.90	9.19
Interest on operating loans	5.13	4.75	4.54	5.09	6.17	7.41	12.41	11.17	11.10	11.32	6.44	4.76	3.98
Interest on real estate	6.96	6.96	6.95	6.95	6.98	7.02	10.86	15.29	11.93	10.64	8.37	5.94	8.15
Total, fixed cash expenses	22.33	22.39	23.24	24.47	27.59	31.12	42.58	44.63	40.32	39.53	28.64	24.46	28.62
Total, cash expenses	58.11	54.74	60.73	62.87	74.39	85.45	107.06	109.48	102.77	101.06	87.86	78.17	81.27
Gross value less cash expenses (excl. direct Gov't. payments)	42.90	34.91	47.13	98.08	80.73	45.78	34.50	16.70	24.50	19.30	38.32	16.43	17.38
Capital replacement	11.23	13.20	14.66	18.32	22.59	26.19	31.00	24.17	28.20	24.14	21.93	22.14	22.19
Gross value less cash expenses and replacement (excl. direct Gov't. payments)	31.67	21.71	32.47	79.76	58.14	19.59	3.50	-7.47	-3.70	-4.84	16.39	-5.71	-4.81
Economic (full ownership) costs:													
Variable cash expenses	35.78	32.35	37.49	38.40	46.80	54.33	64.48	64.85	62.45	61.53	59.22	53.71	52.65
General farm overhead	5.79	6.13	6.53	6.52	7.64	7.37	8.75	8.77	7.76	7.75	5.25	4.86	7.30
Taxes and insurance	4.44	4.55	5.22	5.92	6.80	9.32	10.56	9.40	9.53	9.82	8.58	8.90	9.19
Capital replacement	11.23	13.20	14.66	18.32	22.59	26.19	31.00	24.17	28.20	24.14	21.93	22.14	22.19
Allocated returns to owned inputs:													
Return to operating capital	.95	.70	.80	1.11	1.70	2.25	3.06	2.75	2.23	2.37	2.12	1.38	1.44
Return to other nonland capital	3.35	3.68	3.65	4.27	5.17	5.35	5.94	4.43	4.42	4.98	4.17	4.37	5.05
Net land return	23.85	20.61	25.36	26.74	38.36	31.13	31.13	29.16	30.24	27.89	34.40	26.57	27.13
Unpaid labor	5.64	6.52	7.74	6.75	7.87	8.18	9.66	9.14	9.07	9.78	7.63	8.17	7.84
Total, economic costs	91.03	87.74	101.45	108.03	136.92	144.12	164.58	152.67	153.90	148.26	143.30	130.01	132.79
Residual returns to management and risk (excl. direct Gov't. payments)	9.98	1.90	6.41	52.92	18.19	-12.89	-23.02	-26.49	-26.63	-27.90	-17.12	-35.50	-34.13
Harvest-period price (dollars/bu.)	2.28	1.95	1.75	2.74	2.25	2.91	2.12	2.02	2.78	2.22	1.80	1.26	1.36
Yield (bu./planted acre)	44.30	45.90	61.60	58.70	68.90	45.03	66.65	62.59	45.73	54.29	70.21	75.28	72.69

Table 9--Grain sorghum production costs, Southern Plains, 1975-87

Item	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Dollars per planted acre													
Gross value (excl. direct Gov't. payments):													
Primary crop	114.80	96.20	84.52	136.55	127.15	126.81	139.64	115.87	135.47	128.49	123.15	86.95	92.22
Total	114.80	96.20	84.52	136.55	127.15	126.81	139.64	115.87	135.47	128.49	123.15	86.95	92.22
Cash expenses:													
Seed	3.20	3.17	3.39	2.81	2.73	2.87	3.49	4.06	4.30	4.05	4.24	4.19	3.90
Fertilizer	16.51	12.36	11.76	11.50	14.05	13.66	19.69	19.23	18.99	18.03	19.88	17.07	14.55
Lime and gypsum	.00	.00	.00	.00	.00	.00	.08	.07	.13	.03	.00	.00	.00
Chemicals	3.16	2.27	1.90	5.96	5.88	6.30	6.81	7.37	7.91	7.54	6.52	6.58	6.60
Custom operations	2.81	2.95	3.14	3.46	3.74	4.02	4.82	5.17	5.07	5.17	5.56	5.60	5.61
Fuel, lube, and electricity	9.65	9.98	10.55	11.46	15.81	20.60	20.83	21.79	19.65	19.19	19.30	12.87	15.25
Repairs	8.83	8.43	8.30	8.89	10.09	10.93	10.03	10.72	11.19	10.48	8.64	8.64	8.82
Hired labor	2.07	2.40	2.66	2.28	2.62	2.70	2.90	3.12	3.03	2.05	3.14	3.30	3.44
Purchased irrigation water	.00	.00	.00	.00	.00	.00	.42	.58	.50	.52	.35	.34	.34
Drying	.53	.55	.58	.63	.74	.60	.17	.14	.14	.12	.26	.21	.23
Miscellaneous	.00	.00	.00	.00	.00	.00	.01	.49	.42	.44	.00	.00	.00
Technical services	.00	.00	.00	.00	.00	.00	.42	.09	.09	.08	.02	.02	.02
Total, variable cash expenses	46.75	42.10	42.27	46.99	55.66	61.68	69.67	72.84	71.42	67.71	67.91	58.82	58.77
General farm overhead	5.02	5.33	5.68	6.47	6.59	7.92	9.48	7.31	7.37	7.41	6.32	7.78	5.96
Taxes and insurance	5.23	5.09	5.86	5.90	6.60	5.82	5.33	5.38	5.53	5.66	5.86	6.07	6.30
Interest on operating loans	4.69	4.34	4.15	4.65	5.64	6.77	13.27	10.10	9.47	9.23	6.92	6.67	5.20
Interest on real estate	6.94	6.94	6.93	6.93	6.96	7.00	9.78	7.68	8.11	6.94	5.07	5.97	4.65
Total, fixed cash expenses	21.89	21.70	22.62	23.95	25.79	27.51	37.86	30.47	30.48	29.24	24.17	26.49	22.11
Total, cash expenses	68.64	63.80	64.89	70.93	81.45	89.19	107.53	103.31	101.90	96.95	92.08	85.31	80.88
Gross value less cash expenses (excl. direct Gov't. payments)	46.16	32.39	19.63	65.62	45.70	37.62	32.11	12.56	33.57	31.54	31.07	1.64	11.34
Capital replacement	16.08	20.63	21.71	19.01	22.52	24.84	21.98	23.44	24.72	23.40	23.54	23.25	23.58
Gross value less cash expenses and replacement (excl. direct Gov't. payments)	30.08	11.76	-2.08	46.61	23.18	12.78	10.13	-10.88	8.85	8.14	7.53	-21.61	-12.24
Economic (full ownership) costs:													
Variable cash expenses	46.75	42.10	42.27	46.99	55.66	61.68	69.67	72.84	71.42	67.71	67.91	58.82	58.77
General farm overhead	5.02	5.33	5.68	6.47	6.59	7.92	9.48	7.31	7.37	7.41	6.32	7.78	5.96
Taxes and insurance	5.23	5.09	5.86	5.90	6.60	5.82	5.33	5.38	5.53	5.66	5.86	6.07	6.30
Capital replacement	16.08	20.63	21.71	19.01	22.52	24.84	21.98	23.44	24.72	23.40	23.54	23.25	23.58
Allocated returns to owned inputs:													
Return to operating capital	1.24	.99	1.01	1.28	1.93	2.46	3.60	3.02	2.33	2.48	2.24	1.41	1.51
Return to other nonland capital	4.28	5.14	4.83	3.95	4.60	4.85	3.67	3.74	3.53	4.26	4.01	4.06	4.76
Net land return	18.58	14.84	12.66	17.21	24.28	24.59	31.87	26.99	31.94	30.18	32.85	24.41	25.32
Unpaid labor	8.27	9.59	10.64	9.10	10.47	10.79	11.60	12.50	12.14	12.62	12.54	13.21	13.78
Total, economic costs	105.47	103.72	104.66	109.91	132.65	142.95	157.20	155.21	158.98	153.71	155.27	139.01	139.97
Residual returns to management and risk (excl. direct Gov't. payments)	9.33	-7.52	-20.15	26.64	-5.50	-16.14	-17.56	-39.34	-23.51	-25.22	-32.12	-52.06	-47.75
Harvest-period price (dollars/bu.)	2.50	2.14	1.92	3.00	2.46	3.20	2.42	2.21	2.90	2.57	2.08	1.61	1.50
Yield (bu./planted acre)	46.00	45.00	44.10	45.50	51.60	39.60	57.60	52.47	46.65	49.94	59.17	54.15	61.38

Table 10--Barley production costs, U.S., 1975-87

Item	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Dollars per planted acre													
Gross value (excl. direct Gov't. payments):													
Primary crop	96.36	91.13	69.13	86.24	107.35	113.75	119.99	114.07	116.99	115.52	83.46	69.35	78.19
Secondary crop	4.70	5.40	4.78	5.04	4.30	4.94	4.81	3.58	3.32	3.75	3.58	3.04	3.08
Total	101.06	96.53	73.91	91.28	111.65	118.69	124.80	117.65	120.31	119.27	87.04	72.39	81.27
Cash expenses:													
Seed	6.38	6.12	4.64	4.68	4.94	5.76	7.55	6.54	5.53	6.48	6.08	4.41	4.09
Fertilizer	10.04	7.38	6.79	12.10	12.88	14.30	14.80	18.10	16.20	16.27	15.63	13.39	12.56
Lime and gypsum	.00	.00	.03	.05	.05	.05	.05	.04	.04	.04	.03	.03	.04
Chemicals	1.62	1.80	1.62	3.36	3.51	3.73	4.11	5.71	5.91	6.04	6.03	5.87	5.60
Custom operations	.98	1.07	1.11	1.37	1.49	1.50	2.02	4.19	3.77	3.48	2.88	2.86	2.34
Fuel, lube, and electricity	5.02	5.41	5.59	6.81	10.99	14.57	14.84	13.12	11.74	10.18	10.88	7.27	7.66
Repairs	6.35	6.30	6.07	7.29	8.64	9.53	10.56	9.44	9.66	9.56	9.00	8.90	8.64
Hired labor	3.51	4.05	4.63	4.98	5.07	5.29	5.24	5.09	5.20	1.37	4.91	5.21	4.97
Purchased irrigation water	.62	.68	.70	.87	1.32	1.29	1.55	1.61	1.62	1.65	1.63	1.57	1.64
Miscellaneous	.13	.13	.13	.13	.15	.21	.21	.69	.69	.70	.70	.67	.70
Technical services	.00	.00	.00	.00	.00	.00	.48	.14	.13	.12	.12	.13	.13
Total, variable cash expenses	34.64	32.92	31.31	41.64	49.04	56.23	61.41	64.67	60.49	55.89	57.89	50.31	48.37
General farm overhead	4.61	4.90	5.07	6.54	8.29	8.23	9.35	8.36	9.33	9.35	5.49	5.39	6.95
Taxes and insurance	4.32	4.53	5.05	5.75	6.58	8.96	9.17	8.28	8.53	8.91	9.00	9.31	9.41
Interest on operating loans	5.58	5.16	4.93	5.53	6.70	8.05	11.34	9.67	11.39	11.71	5.53	3.90	3.58
Interest on real estate	9.58	9.58	9.56	9.56	9.60	9.66	14.54	9.40	12.97	13.20	8.03	6.45	8.87
Total, fixed cash expenses	24.09	24.17	24.61	27.38	31.18	34.90	44.40	35.71	42.22	43.17	28.05	25.05	28.81
Total, cash expenses	58.73	57.09	55.93	69.01	80.22	91.13	105.81	100.38	102.71	99.06	85.94	75.36	77.18
Gross value less cash expenses (excl. direct Gov't. payments)	42.32	39.44	17.99	22.26	31.43	27.56	18.99	17.27	17.60	20.21	1.10	-2.97	4.09
Capital replacement	11.34	13.02	13.38	17.32	21.87	23.29	25.01	23.71	24.56	24.94	24.06	24.41	24.29
Gross value less cash expenses and replacement (excl. direct Gov't. payments)	30.98	26.42	4.61	4.94	9.56	4.27	-6.02	-6.44	-6.96	-4.73	-22.96	-27.38	-20.20
Economic (full ownership) costs:													
Variable cash expenses	34.64	32.92	31.31	41.64	49.04	56.23	61.41	64.67	60.49	55.89	57.89	50.31	48.37
General farm overhead	4.61	4.90	5.07	6.54	8.29	8.23	9.35	8.36	9.33	9.35	5.49	5.39	6.95
Taxes and insurance	4.32	4.53	5.05	5.75	6.58	8.96	9.17	8.28	8.53	8.91	9.00	9.31	9.41
Capital replacement	11.34	13.02	13.38	17.32	21.87	23.29	25.01	23.71	24.56	24.94	24.06	24.41	24.29
Allocated returns to owned inputs:													
Return to operating capital	.78	.72	.72	.92	1.37	1.74	2.24	2.03	1.53	1.65	1.30	.79	.83
Return to other nonland capital	3.30	3.55	3.26	3.94	4.88	4.73	4.60	4.18	3.90	4.89	4.47	4.65	5.32
Net land return	20.92	19.63	15.80	24.77	27.38	28.06	28.88	31.25	31.83	30.77	21.15	18.59	20.31
Unpaid labor	3.95	4.56	5.23	5.61	5.71	5.96	5.91	5.73	5.87	9.15	5.54	5.88	5.60
Total, economic costs	83.87	83.84	79.81	106.49	125.12	137.20	146.57	148.21	146.04	145.55	128.90	119.33	121.08
Residual returns to management and risk (excl. direct Gov't. payments)	17.18	12.69	-5.90	-15.21	-13.47	-18.51	-21.77	-30.56	-25.73	-26.28	-41.86	-46.94	-39.81
Harvest-period price (dollars/bu.)	2.37	2.21	1.75	1.88	2.25	2.63	2.42	2.13	2.36	2.29	1.86	1.47	1.67
Yield (bu./planted acre)	40.60	41.30	39.60	45.80	47.80	43.28	49.61	53.44	49.65	50.46	44.96	47.21	46.96

Table 11--Barley production costs, Northeast, 1975-87

Item	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Dollars per planted acre													
Gross value (excl. direct Gov't. payments):													
Primary crop	99.59	77.77	74.38	79.36	91.35	113.50	104.98	94.65	112.93	124.24	93.75	71.87	66.30
Secondary crop	56.65	53.67	60.02	54.04	44.20	41.16	73.50	67.62	67.62	70.07	55.32	51.63	61.77
Total	156.25	131.44	134.40	133.41	135.55	154.66	178.48	162.27	180.55	194.31	149.07	123.50	128.07
Cash expenses:													
Seed	7.29	6.86	6.23	6.50	8.38	8.93	9.26	9.15	8.60	9.92	9.59	9.26	8.60
Fertilizer	21.94	16.66	14.78	14.90	16.28	21.17	22.02	21.52	19.25	20.28	19.24	16.92	16.33
Lime and gypsum	.00	.00	2.13	3.54	3.83	4.25	4.64	4.88	4.84	5.06	5.04	4.88	5.35
Chemicals	.12	2.10	1.89	.14	.14	.15	.17	.18	.19	.19	.19	.19	.19
Custom operations	3.96	3.57	4.68	4.95	5.15	5.80	5.81	6.65	6.74	6.84	6.98	6.98	6.79
Fuel, lube, and electricity	5.14	4.56	5.95	6.20	9.41	13.17	15.04	13.75	12.69	11.03	11.90	8.14	9.23
Repairs	6.61	5.42	6.58	6.76	7.18	8.35	9.00	8.62	9.00	8.38	8.45	8.45	8.36
Hired labor	4.16	4.28	4.86	6.95	7.41	8.38	8.86	9.15	8.83	2.33	8.92	9.75	11.27
Miscellaneous	1.04	1.02	1.02	1.06	1.14	1.88	1.94	1.92	1.93	1.96	1.95	1.87	1.96
Total, variable cash expenses	50.26	44.47	48.13	51.00	58.92	72.08	76.74	75.82	72.07	65.99	72.26	66.45	68.08
General farm overhead	5.03	5.34	5.69	8.56	12.38	17.51	9.55	5.36	10.31	10.51	11.42	18.44	16.60
Taxes and insurance	4.06	4.37	4.95	5.67	6.25	15.65	15.18	19.28	20.69	20.89	22.19	23.43	23.86
Interest on operating loans	4.41	4.08	3.90	4.37	5.31	6.37	4.87	5.04	5.18	7.76	6.07	2.72	6.25
Interest on real estate	18.73	18.73	18.70	18.70	18.78	18.89	9.97	10.03	7.76	7.80	13.06	13.03	12.91
Total, fixed cash expenses	32.24	32.53	33.24	37.30	42.72	58.42	39.57	39.71	43.94	46.96	52.74	57.62	59.62
Total, cash expenses	82.50	77.00	81.37	88.30	101.64	130.50	116.31	115.53	116.01	112.95	125.00	124.07	127.70
Gross value less cash expenses (excl. direct Gov't. payments)	73.75	54.45	53.03	45.11	33.91	24.16	62.17	46.74	64.54	81.36	24.07	-.57	.37
Capital replacement	10.57	11.92	13.23	16.49	17.77	19.87	20.93	24.31	25.63	28.94	29.41	29.41	29.26
Gross value less cash expenses and replacement (excl. direct Gov't. payments)	63.18	42.53	39.80	28.62	16.14	4.29	41.24	22.43	38.91	52.42	-5.34	-29.98	-28.89
Economic (full ownership) costs:													
Variable cash expenses	50.26	44.47	48.13	51.00	58.92	72.08	76.74	75.82	72.07	65.99	72.26	66.45	68.08
General farm overhead	5.03	5.34	5.69	8.56	12.38	17.51	9.55	5.36	10.31	10.51	11.42	18.44	16.60
Taxes and insurance	4.06	4.37	4.95	5.67	6.25	15.65	15.18	19.28	20.69	20.89	22.19	23.43	23.86
Capital replacement	10.57	11.92	13.23	16.49	17.77	19.87	20.93	24.31	25.63	28.94	29.41	29.41	29.26
Allocated returns to owned inputs:													
Return to operating capital	1.99	1.57	1.43	1.69	2.89	1.78	2.31	1.65	1.24	1.41	1.10	.73	.82
Return to other nonland capital	3.19	3.36	3.33	3.88	4.11	4.17	4.00	5.34	5.08	6.75	6.51	6.69	7.64
Net land return	5.38	9.46	14.74	23.11	24.67	17.65	19.02	31.45	30.78	34.27	29.17	26.22	29.03
Unpaid labor	4.69	4.83	5.48	7.84	8.35	9.44	10.00	10.31	9.95	15.60	10.06	11.00	12.72
Total, economic costs	85.17	85.32	96.98	118.23	135.34	158.15	157.73	173.52	175.75	184.36	182.12	182.36	188.01
Residual returns to management and risk (excl. direct Gov't. payments)	71.07	46.12	37.42	15.17	.20	-3.49	20.75	-11.25	4.80	9.95	-33.05	-58.86	-59.94
Harvest-period price (dollars/bu.)	2.18	2.03	1.61	1.73	2.07	2.42	2.20	1.96	2.20	2.56	1.62	1.29	1.26
Yield (bu./planted acre)	45.60	38.30	46.30	45.80	44.20	46.90	47.72	48.29	51.33	48.53	57.87	55.71	52.62

Table 12--Barley production costs, Northern Plains, 1975-87

Item	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Dollars per planted acre													
Gross value (excl. direct Gov't. payments):													
Primary crop	75.48	71.95	60.68	72.87	87.72	80.44	99.39	91.55	92.81	93.95	65.11	51.59	64.22
Secondary crop	4.11	4.76	4.69	4.75	4.80	4.98	4.31	2.29	2.14	2.93	3.27	2.69	2.69
Total	79.59	76.71	65.36	77.62	92.51	85.42	103.70	93.84	94.95	96.88	68.38	54.28	66.91
Cash expenses:													
Seed	5.27	4.86	4.00	4.04	4.08	4.56	6.04	4.97	4.14	5.54	5.01	3.66	3.47
Fertilizer	8.13	5.80	5.64	11.10	12.20	12.14	12.50	15.39	13.76	14.51	14.20	12.23	11.72
Chemicals	1.75	1.48	1.32	2.80	2.89	3.06	3.34	5.20	5.36	5.52	5.51	5.45	5.32
Custom operations	.24	.26	.30	.36	.38	.36	.38	1.60	1.57	1.66	1.40	1.59	1.54
Fuel, lube, and electricity	3.11	3.38	3.88	4.55	7.97	10.39	12.16	10.01	8.95	7.46	8.27	5.23	6.14
Repairs	5.36	5.36	5.74	6.64	7.88	8.34	9.83	7.66	8.00	7.93	7.46	7.58	7.60
Hired labor	2.70	3.11	3.41	3.40	3.76	3.83	4.30	4.11	4.28	1.16	4.15	4.48	4.29
Purchased irrigation water	.14	.15	.18	.21	.37	.32	.30	.31	.31	.32	.31	.30	.31
Miscellaneous	.12	.12	.12	.12	.15	.21	.21	.21	.21	.21	.21	.20	.21
Technical services	.00	.00	.00	.00	.00	.00	.00	.14	.12	.12	.13	.13	.14
Total, variable cash expenses	26.82	24.52	24.59	33.22	39.68	43.21	49.06	49.60	46.70	44.42	46.66	40.86	40.75
General farm overhead	3.76	4.00	4.26	4.81	6.22	5.75	7.81	5.87	7.19	7.39	3.54	3.49	5.57
Taxes and insurance	4.29	4.38	4.99	5.64	6.40	6.61	7.23	7.00	7.31	7.80	7.89	8.31	8.48
Interest on operating loans	4.01	3.70	3.54	3.97	4.81	5.78	10.17	7.50	9.78	10.31	4.25	2.84	3.01
Interest on real estate	5.42	5.42	5.41	5.41	5.44	5.47	12.18	8.73	10.29	10.58	5.52	4.25	7.34
Total, fixed cash expenses	17.48	17.50	18.20	19.83	22.87	23.61	37.39	29.10	34.57	36.08	21.20	18.89	24.40
Total, cash expenses	44.29	42.02	42.79	53.05	62.55	66.82	86.45	78.70	81.27	80.50	67.86	59.75	65.15
Gross value less cash expenses (excl. direct Gov't. payments)	35.29	34.68	22.58	24.57	29.97	18.60	17.25	15.14	13.68	16.38	.52	-5.47	1.76
Capital replacement	11.26	11.40	12.75	16.78	19.74	20.26	23.66	22.28	23.05	23.06	22.37	23.31	23.36
Gross value less cash expenses and replacement (excl. direct Gov't. payments)	24.03	23.28	9.83	7.79	10.23	-1.66	-6.41	-7.14	-9.37	-6.68	-21.85	-28.78	-21.60
Economic (full ownership) costs:													
Variable cash expenses	26.82	24.52	24.59	33.22	39.68	43.21	49.06	49.60	46.70	44.42	46.66	40.86	40.75
General farm overhead	3.76	4.00	4.26	4.81	6.22	5.75	7.81	5.87	7.19	7.39	3.54	3.49	5.57
Taxes and insurance	4.29	4.38	4.99	5.64	6.40	6.61	7.23	7.00	7.31	7.80	7.89	8.31	8.48
Capital replacement	11.26	11.40	12.75	16.78	19.74	20.26	23.66	22.28	23.05	23.06	22.37	23.31	23.36
Allocated returns to owned inputs:													
Return to operating capital	.54	.40	.43	.69	1.01	1.29	1.71	1.64	1.28	1.42	1.13	.69	.73
Return to other nonland capital	3.31	3.14	3.14	3.86	4.46	4.13	4.42	4.00	3.70	4.60	4.22	4.48	5.16
Net land return	18.63	17.49	15.99	22.69	25.75	25.47	29.55	28.89	28.56	27.75	18.75	16.80	18.32
Unpaid labor	3.04	3.51	3.84	3.83	4.24	4.32	4.85	4.64	4.83	7.73	4.69	5.06	4.84
Total, economic costs	71.65	68.84	69.99	91.52	107.50	111.04	128.29	123.91	122.62	124.16	109.24	102.99	107.21
Residual returns to management and risk (excl. direct Gov't. payments)	7.94	7.87	-4.63	-13.90	-14.98	-25.62	-24.59	-30.07	-27.67	-27.30	-40.86	-48.71	-40.30
Harvest-period price (dollars/bu.)	2.13	1.98	1.56	1.69	2.01	2.49	2.18	1.82	2.13	2.11	1.59	1.18	1.48
Yield (bu./planted acre)	35.50	36.40	38.80	43.20	43.60	32.31	45.69	50.18	43.55	44.54	41.08	43.78	43.53

Table 13--Barley production costs, Northwest, 1975-87

Item	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Dollars per planted acre													
Gross value (excl. direct Gov't. payments):													
Primary crop	128.61	126.69	68.57	121.31	135.69	178.63	148.38	149.40	163.42	152.99	115.73	117.30	138.73
Secondary crop	3.59	4.29	2.72	4.05	3.80	4.04	2.47	4.64	4.38	4.46	3.43	3.12	3.17
Total	132.20	130.98	71.28	125.36	139.49	182.67	150.85	154.04	167.80	157.45	119.16	120.42	141.90
Cash expenses:													
Seed	7.83	7.45	5.41	5.57	5.48	7.34	9.16	7.87	7.21	7.78	7.59	5.95	5.77
Fertilizer	14.52	10.86	9.27	12.44	12.44	15.85	17.71	20.69	19.57	19.37	18.44	16.08	15.35
Chemicals	1.50	2.56	2.48	4.45	4.51	4.96	5.57	6.82	7.33	7.56	7.77	7.47	7.29
Custom operations	.41	.47	.35	.61	.71	.81	.91	3.89	3.83	3.88	3.26	3.30	3.20
Fuel, lube, and electricity	6.28	7.04	5.19	8.97	14.98	20.65	18.62	15.23	15.01	13.71	13.29	10.28	11.55
Repairs	8.02	8.29	5.70	9.71	11.30	13.05	12.71	12.87	13.49	13.29	12.58	12.79	13.05
Hired labor	3.83	4.65	5.14	7.59	5.59	6.22	5.87	5.98	6.61	1.67	6.11	6.59	6.93
Purchased irrigation water	.00	.00	.00	.00	.88	.85	.78	2.94	2.95	3.00	2.98	2.86	2.99
Miscellaneous	.00	.00	.00	.00	.12	.16	.14	.63	.63	.64	.64	.61	.64
Technical services	.00	.00	.00	.00	.00	.00	.00	.08	.08	.08	.07	.07	.07
Total, variable cash expenses	42.39	41.32	33.54	49.34	56.01	69.89	71.47	77.00	76.71	70.99	72.73	66.01	66.84
General farm overhead	5.26	5.58	5.94	8.66	10.54	13.25	11.46	11.26	12.31	12.58	9.06	10.11	12.54
Taxes and insurance	4.70	14.60	5.04	6.05	7.22	11.08	11.70	9.32	9.99	10.63	11.08	11.71	12.15
Interest on operating loans	9.56	8.84	8.46	9.48	11.49	13.80	12.74	12.17	13.60	14.07	7.91	6.61	6.09
Interest on real estate	18.49	18.48	18.45	18.45	18.53	18.64	18.61	9.91	17.00	18.03	12.59	12.18	16.04
Total, fixed cash expenses	38.00	47.50	37.89	42.63	47.78	56.77	54.51	42.66	52.90	55.31	40.64	40.61	46.82
Total, cash expenses	80.39	88.82	71.43	91.98	103.79	126.66	125.98	119.66	129.61	126.30	113.37	106.62	113.66
Gross value less cash expenses (excl. direct Gov't. payments)	51.80	42.16	-.15	33.39	35.70	56.01	24.87	34.38	38.19	31.15	5.79	13.80	28.24
Capital replacement	12.90	13.14	10.07	18.94	28.38	31.63	31.07	26.88	28.37	29.40	27.96	27.99	28.85
Gross value less cash expenses and replacement (excl. direct Gov't. payments)	38.90	29.02	-10.22	14.45	7.32	24.38	-6.20	7.50	9.82	1.75	-22.17	-14.19	-.61
Economic (full ownership) costs:													
Variable cash expenses	42.39	41.32	33.54	49.34	56.01	69.89	71.47	77.00	76.71	70.99	72.73	66.01	66.84
General farm overhead	5.26	5.58	5.94	8.66	10.54	13.25	11.46	11.26	12.31	12.58	9.06	10.11	12.54
Taxes and insurance	4.70	14.60	5.04	6.05	7.22	11.08	11.70	9.32	9.99	10.63	11.08	11.71	12.15
Capital replacement	12.90	13.14	10.07	18.94	28.38	31.63	31.07	26.88	28.37	29.40	27.96	27.99	28.85
Allocated returns to owned inputs:													
Return to operating capital	.80	.66	.67	.97	1.31	1.80	2.34	2.09	1.64	1.80	1.41	.91	1.02
Return to other nonland capital	3.73	3.56	2.43	4.28	6.29	6.43	5.66	4.60	4.39	5.58	5.05	5.19	6.18
Net land return	22.84	21.40	13.36	29.22	24.57	33.69	26.44	37.56	41.03	38.65	26.90	25.33	30.34
Unpaid labor	4.31	5.25	5.80	8.56	6.31	7.02	6.61	6.75	7.46	11.21	6.90	7.44	7.81
Total, economic costs	96.93	105.50	76.86	126.03	140.62	174.79	166.75	175.46	181.90	180.83	161.08	154.69	165.73
Residual returns to management and risk (excl. direct Gov't. payments)	35.27	25.48	-5.57	-.66	-1.13	7.88	-15.90	-21.42	-14.10	-23.38	-41.92	-34.27	-23.83
Harvest-period price (dollars/bu.)	2.64	2.45	1.94	2.10	2.50	2.68	2.63	2.58	2.61	2.39	2.22	2.07	2.16
Yield (bu./planted acre)	48.70	51.60	35.30	57.90	54.30	66.64	56.36	57.94	62.58	64.08	52.05	56.68	64.29

Table 14--Barley production costs, Southern Plains, 1975-87

Item	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Dollars per planted acre													
Gross value (excl. direct Gov't. payments):													
Primary crop	102.80	100.67	74.04	89.87	127.45	124.30	144.32	147.07	155.22	145.42	127.59	90.57	117.26
Secondary crop	9.55	11.35	9.76	10.00	10.75	12.62	15.22	5.57	4.68	3.72	2.97	2.87	2.77
Total	112.35	112.01	83.79	99.86	138.20	136.92	159.54	152.64	159.90	149.14	130.56	93.44	120.03
Cash expenses:													
Seed	4.09	5.80	4.88	4.48	4.61	5.29	6.91	7.60	7.21	7.62	6.97	4.65	2.16
Fertilizer	8.53	6.56	6.73	12.50	13.60	18.86	20.64	23.93	19.66	16.63	15.00	11.86	11.00
Chemicals	1.39	3.24	2.98	3.59	3.70	4.12	4.55	7.89	7.17	6.14	5.70	5.52	5.33
Custom operations	.51	.58	.58	.70	.59	.70	1.41	18.79	16.73	14.49	13.76	12.93	12.83
Fuel, lube, and electricity	5.51	6.13	6.15	7.29	12.60	18.65	20.02	28.25	25.09	20.95	19.17	15.87	16.44
Repairs	5.90	6.06	5.66	6.62	8.09	9.70	10.03	14.94	14.49	12.50	11.87	11.69	11.77
Hired labor	4.20	3.46	5.64	7.04	8.82	9.80	9.78	7.44	7.02	1.76	6.18	7.75	6.25
Purchased irrigation water	2.61	2.95	2.98	3.58	7.33	8.90	9.80	2.51	2.52	2.56	2.54	2.45	2.55
Miscellaneous	.25	.24	.24	.25	.27	.44	.46	.45	.45	.46	.45	.44	.46
Technical services	.00	.00	.00	.00	.00	.00	.00	.08	.07	.05	.05	.05	.05
Total, variable cash expenses	32.98	35.03	35.85	46.05	59.61	76.46	83.60	111.88	100.41	83.16	81.69	73.20	68.84
General farm overhead	5.81	6.17	6.57	7.06	9.34	10.92	14.98	11.44	15.54	13.90	9.88	7.57	9.21
Taxes and insurance	4.35	5.58	5.69	5.64	6.50	7.15	7.43	8.21	8.25	7.91	8.30	8.43	8.67
Interest on operating loans	6.46	5.98	5.72	6.41	7.77	9.33	15.72	14.35	18.88	17.26	9.96	4.49	9.26
Interest on real estate	9.56	9.56	9.54	9.54	9.59	9.64	28.59	15.15	23.18	22.92	11.64	9.10	10.95
Total, fixed cash expenses	26.19	27.29	27.52	28.65	33.20	37.04	66.72	49.15	65.85	61.99	39.78	29.59	38.09
Total, cash expenses	59.17	62.32	63.37	74.69	92.81	113.50	150.32	161.03	166.26	145.15	121.47	102.79	106.93
Gross value less cash expenses (excl. direct Gov't. payments)	53.18	49.69	20.43	25.17	45.39	23.42	9.22	-8.39	-6.36	3.99	9.09	-9.35	13.10
Capital replacement	10.19	26.70	19.01	16.33	20.81	24.08	25.10	30.82	30.77	28.37	27.84	27.51	27.82
Gross value less cash expenses and replacement (excl. direct Gov't. payments)	42.99	22.99	1.42	8.84	24.58	-.66	-15.88	-39.21	-37.13	-24.38	-18.75	-36.86	-14.72
Economic (full ownership) costs:													
Variable cash expenses	32.98	35.03	35.85	46.05	59.61	76.46	83.60	111.88	100.41	83.16	81.69	73.20	68.84
General farm overhead	5.81	6.17	6.57	7.06	9.34	10.92	14.98	11.44	15.54	13.90	9.88	7.57	9.21
Taxes and insurance	4.35	5.58	5.69	5.64	6.50	7.15	7.43	8.21	8.25	7.91	8.30	8.43	8.67
Capital replacement	10.19	26.70	19.01	16.33	20.81	24.08	25.10	30.82	30.77	28.37	27.84	27.51	27.82
Allocated returns to owned inputs:													
Return to operating capital	.77	1.02	.93	1.05	1.72	2.28	2.98	2.89	2.12	2.18	1.65	1.05	1.05
Return to other nonland capital	3.02	7.41	4.71	3.78	4.73	4.99	4.69	5.46	4.90	5.43	5.05	5.12	5.95
Net land return	19.55	19.28	14.03	27.74	30.85	30.05	36.71	28.14	31.90	32.05	27.81	16.26	23.69
Unpaid labor	4.73	3.91	6.36	7.93	9.95	11.06	11.03	8.40	7.92	11.79	6.96	8.74	7.04
Total, economic costs	81.41	105.10	93.15	115.58	143.52	166.99	186.52	207.24	201.81	184.79	169.19	147.88	152.27
Residual returns to management and risk (excl. direct Gov't. payments)	30.94	6.92	-9.36	-15.72	-5.32	-30.07	-26.98	-54.60	-41.91	-35.65	-38.63	-54.44	-32.24
Harvest-period price (dollars/bu.)	2.38	2.21	1.75	1.89	2.25	2.32	2.64	2.22	2.33	2.67	2.28	1.76	2.03
Yield (bu./planted acre)	43.20	45.50	42.30	47.60	56.60	53.61	54.70	66.36	66.52	54.37	55.99	51.56	57.62

Table 15--Barley production costs, Southwest, 1975-87

Item	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Dollars per planted acre													
Gross value (excl. direct Gov't. payments):													
Primary crop	153.32	135.59	104.18	100.50	151.89	174.87	177.27	156.51	175.23	184.19	145.78	110.52	84.14
Secondary crop	.00	.00	.00	.00	.00	.00	2.15	2.81	2.77	2.08	2.26	1.78	1.72
Total	153.32	135.59	104.18	100.50	151.89	174.87	179.42	159.32	178.00	186.27	148.04	112.30	85.86
Cash expenses:													
Seed	9.78	9.56	6.72	6.52	7.77	9.31	13.75	12.91	12.37	10.69	12.50	8.22	8.35
Fertilizer	12.07	8.96	8.79	16.24	16.07	20.80	19.41	26.96	26.34	22.63	21.65	20.24	18.80
Chemicals	1.49	1.79	1.62	5.03	5.03	5.29	5.75	5.75	6.46	6.15	5.71	6.00	5.87
Custom operations	7.14	7.30	7.69	7.35	7.72	8.77	16.32	17.80	18.72	15.53	12.94	12.50	11.23
Fuel, lube, and electricity	15.43	15.52	16.26	15.31	17.95	24.97	20.86	23.22	21.28	19.48	29.26	18.79	19.18
Repairs	9.03	8.38	8.17	7.59	8.25	9.79	10.22	9.90	10.25	10.57	10.64	9.46	9.70
Hired labor	6.02	7.14	9.88	8.52	8.40	9.50	7.54	7.99	8.08	2.15	8.08	7.75	8.16
Purchased irrigation water	1.67	1.71	1.80	1.72	4.03	4.56	8.57	9.87	9.91	10.08	10.00	9.62	10.05
Miscellaneous	.04	.04	.04	.04	.06	.08	.14	5.78	5.80	5.90	5.85	5.63	5.88
Technical services	.00	.00	.00	.00	.00	.00	5.39	.41	.43	.33	.33	.30	.29
Total, variable cash expenses	62.66	60.39	60.97	68.32	75.28	93.07	107.95	120.59	119.64	103.51	116.96	98.51	97.50
General farm overhead	5.96	6.33	6.75	10.53	12.20	10.86	11.77	16.23	16.95	15.17	11.01	10.04	7.38
Taxes and insurance	4.12	4.74	5.18	5.93	6.45	17.99	16.09	13.00	14.19	13.64	13.06	12.98	13.40
Interest on operating loans	6.80	6.29	6.02	6.74	8.18	9.82	14.37	16.18	16.63	14.63	8.31	7.68	3.04
Interest on real estate	15.42	15.42	15.39	15.39	15.46	15.55	13.91	10.57	21.02	16.96	17.27	11.75	6.13
Total, fixed cash expenses	32.31	32.78	33.34	38.59	42.29	54.22	56.14	55.98	68.79	60.40	49.65	42.45	29.95
Total, cash expenses	94.97	93.17	94.31	106.91	117.58	147.29	164.09	176.57	188.43	163.91	166.61	140.96	127.45
Gross value less cash expenses (excl. direct Gov't. payments)	58.35	42.42	9.87	-6.41	34.31	27.58	15.33	-17.25	-10.43	22.36	-18.57	-28.66	-41.59
Capital replacement	10.61	15.29	15.01	18.23	22.19	24.93	18.58	21.94	22.72	24.68	24.76	21.85	22.88
Gross value less cash expenses and replacement (excl. direct Gov't. payments)	47.74	27.13	-5.14	-24.64	12.12	2.65	-3.25	-39.19	-33.15	-2.32	-43.33	-50.51	-64.47
Economic (full ownership) costs:													
Variable cash expenses	62.66	60.39	60.97	68.32	75.28	93.07	107.95	120.59	119.64	103.51	116.96	98.51	97.50
General farm overhead	5.96	6.33	6.75	10.53	12.20	10.86	11.77	16.23	16.95	15.17	11.01	10.04	7.38
Taxes and insurance	4.12	4.74	5.18	5.93	6.45	17.99	16.09	13.00	14.19	13.64	13.06	12.98	13.40
Capital replacement	10.61	15.29	15.01	18.23	22.19	24.93	18.58	21.94	22.72	24.68	24.76	21.85	22.88
Allocated returns to owned inputs:													
Return to operating capital	1.57	1.79	2.08	1.90	2.81	3.80	5.30	4.34	3.45	3.40	2.82	1.74	1.91
Return to other nonland capital	2.83	3.82	3.35	3.80	4.55	4.90	3.09	3.66	3.41	4.62	4.42	4.00	4.80
Net land return	25.56	22.57	18.29	27.72	36.34	32.29	28.18	30.08	31.78	30.26	19.96	16.10	13.74
Unpaid labor	6.79	8.06	11.14	9.60	9.48	10.72	8.51	9.00	9.12	14.35	9.11	8.73	9.20
Total, economic costs	120.11	122.99	122.77	146.04	169.29	198.56	199.47	218.84	221.26	209.63	202.10	173.95	170.82
Residual returns to management and risk (excl. direct Gov't. payments)	33.21	12.60	-18.58	-45.54	-17.41	-23.69	-20.05	-59.52	-43.26	-23.36	-54.06	-61.65	-84.96
Harvest-period price (dollars/bu.)	2.99	2.78	2.20	2.38	2.83	3.07	3.13	2.66	3.14	3.18	2.69	2.10	2.05
Yield (bu./planted acre)	51.20	48.70	47.30	42.30	53.60	56.90	56.57	58.90	55.84	57.85	54.22	52.72	41.11

Table 16--Oats production costs, U.S., 1975-87

Item	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Dollars per planted acre													
Gross value (excl. direct Gov't. payments):													
Primary crop	60.99	60.23	56.70	57.60	66.32	74.28	91.15	78.33	70.82	83.96	55.61	49.39	74.27
Secondary crop	29.84	31.11	38.42	32.57	21.38	27.24	30.22	25.44	23.78	20.78	23.82	20.26	22.98
Total	90.83	91.34	95.12	90.17	87.70	101.52	121.37	103.77	94.60	104.74	79.43	69.65	97.25
Cash expenses:													
Seed	3.28	3.18	2.79	4.60	4.90	5.63	7.13	7.15	5.71	8.82	8.47	5.49	6.10
Fertilizer	7.42	5.57	5.20	6.83	7.55	9.26	9.26	11.17	9.91	10.81	10.01	9.22	9.13
Lime and gypsum	.59	.61	.63	.78	.93	1.08	1.10	1.35	1.31	1.42	1.42	1.71	1.79
Chemicals	.31	.29	.26	.78	.80	.87	.95	1.25	1.34	1.38	1.23	1.35	1.32
Custom operations	1.97	1.96	2.84	2.82	3.05	3.49	3.75	4.21	4.04	4.10	3.01	2.56	2.42
Fuel, lube, and electricity	3.29	3.22	4.63	4.54	7.20	10.34	11.70	11.89	10.53	8.80	8.76	6.78	8.09
Repairs	4.76	4.30	5.76	5.57	6.01	6.79	7.71	7.59	7.86	7.54	6.42	7.86	7.91
Hired labor	.63	.70	.78	1.18	1.28	1.40	1.53	1.61	1.55	1.22	1.51	1.89	1.94
Miscellaneous	.69	.67	.67	.70	.77	1.24	1.22	.96	.96	.98	.97	.93	.97
Technical services	.00	.00	.00	.00	.00	.00	.00	.06	.06	.06	.06	.07	.07
Total, variable cash expenses	22.94	20.48	23.55	27.80	32.49	40.10	44.35	47.23	43.27	45.13	41.85	37.86	39.74
General farm overhead	2.86	3.30	3.42	4.65	6.04	5.73	6.57	4.67	5.18	5.32	3.90	3.48	4.78
Taxes and insurance	3.94	4.24	4.79	5.29	5.84	10.57	10.65	12.21	12.35	13.58	13.53	15.68	16.04
Interest on operating loans	3.16	2.92	2.79	3.13	3.80	4.56	8.31	5.79	6.80	7.51	4.64	4.09	5.66
Interest on real estate	6.59	6.58	6.57	6.57	6.60	6.64	9.51	7.38	7.27	7.15	7.05	6.19	8.52
Total, fixed cash expenses	16.55	17.05	17.58	19.64	22.28	27.50	35.04	30.05	31.60	33.56	29.12	29.44	35.00
Total, cash expenses	39.49	37.53	41.13	47.44	54.77	67.60	79.39	77.28	74.87	78.69	70.97	67.30	74.74
Gross value less cash expenses (excl. direct Gov't. payments)	51.34	53.81	53.98	42.72	32.93	33.92	41.98	26.49	19.73	26.05	8.46	2.35	22.51
Capital replacement	8.91	10.34	11.46	14.05	15.25	16.60	18.39	22.05	22.98	23.42	19.17	27.25	27.37
Gross value less cash expenses and replacement (excl. direct Gov't. payments)	42.43	43.47	42.52	28.67	17.68	17.32	23.59	4.44	-3.25	2.63	-10.71	-24.90	-4.86
Economic (full ownership) costs:													
Variable cash expenses	22.94	20.48	23.55	27.80	32.49	40.10	44.35	47.23	43.27	45.13	41.85	37.86	39.74
General farm overhead	2.86	3.30	3.42	4.65	6.04	5.73	6.57	4.67	5.18	5.32	3.90	3.48	4.78
Taxes and insurance	3.94	4.24	4.79	5.29	5.84	10.57	10.65	12.21	12.35	13.58	13.53	15.68	16.04
Capital replacement	8.91	10.34	11.46	14.05	15.25	16.60	18.39	22.05	22.98	23.42	19.17	27.25	27.37
Allocated returns to owned inputs:													
Return to operating capital	.40	.33	.34	.58	.86	1.21	1.60	1.40	1.03	1.23	.94	.61	.69
Return to other nonland capital	2.66	2.89	2.86	3.27	3.49	3.45	3.47	4.48	4.18	5.33	4.15	6.05	6.98
Net land return	15.44	13.84	14.81	19.45	22.70	19.39	23.52	26.82	24.25	26.35	17.46	14.69	17.55
Unpaid labor	4.63	5.10	5.68	8.69	9.41	10.23	11.21	11.79	11.37	12.34	11.03	13.87	14.21
Total, economic costs	61.78	60.52	66.92	83.78	96.08	107.28	119.76	130.66	124.61	132.70	112.04	119.49	127.36
Residual returns to management and risk (excl. direct Gov't. payments)	29.05	30.82	28.20	6.38	-8.38	-5.76	1.61	-26.89	-30.01	-27.96	-32.61	-49.84	-30.11
Harvest-period price (dollars/bu.)	1.40	1.49	1.05	1.15	1.30	1.49	1.73	1.42	1.45	1.65	1.23	.86	1.35
Yield (bu./planted acre)	43.60	40.30	53.80	50.10	50.90	49.92	52.84	55.25	48.92	50.82	45.14	57.64	55.21

Table 17--Oats production costs, Lake States and Corn Belt, 1975-87

Item	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Dollars per planted acre													
Gross value (excl. direct Gov't. payments):													
Primary crop	66.98	71.71	65.72	60.29	70.83	84.63	103.47	79.99	80.06	93.19	60.68	53.89	82.63
Secondary crop	39.84	45.03	54.14	41.44	24.70	31.32	33.23	39.08	38.70	30.02	34.36	28.25	34.11
Total	106.82	116.74	119.85	101.73	95.53	115.95	136.70	119.07	118.76	123.21	95.04	82.14	116.74
Cash expenses:													
Seed	3.10	2.98	2.65	5.04	5.45	6.14	7.54	7.75	6.37	10.26	9.65	6.20	7.16
Fertilizer	6.62	5.20	4.92	7.73	8.32	10.42	10.83	12.54	11.33	12.16	10.75	10.11	10.31
Lime and gypsum	1.07	.97	1.01	1.26	1.50	1.64	1.80	1.40	1.47	1.60	1.56	1.86	1.90
Chemicals	.23	.31	.28	.66	.66	.73	.80	1.25	1.39	1.49	1.17	1.39	1.35
Custom operations	1.96	2.11	2.97	2.67	2.79	3.32	3.55	5.32	5.48	5.15	3.75	3.07	2.69
Fuel, lube, and electricity	4.20	4.45	6.23	5.52	8.49	12.15	13.70	13.52	12.34	10.11	9.91	7.85	9.40
Repairs	5.43	5.31	6.93	6.05	6.61	7.56	8.39	7.59	8.12	7.58	6.52	8.06	8.09
Hired labor	.66	.74	.82	1.38	1.53	1.63	1.79	1.93	1.88	1.45	1.76	2.22	2.33
Miscellaneous	.89	.87	.88	.91	.99	1.55	1.54	1.34	1.34	1.36	1.35	1.30	1.36
Technical services	.00	.00	.00	.00	.00	.00	.00	.08	.08	.08	.08	.09	.09
Total, variable cash expenses	24.15	22.93	26.68	31.22	36.34	45.14	49.94	52.72	49.80	51.24	46.50	42.15	44.68
General farm overhead	3.79	4.34	4.62	5.09	6.77	5.76	7.46	5.15	5.48	5.61	4.52	3.97	5.55
Taxes and insurance	3.92	4.33	4.88	5.44	6.05	13.03	13.02	15.47	16.48	17.90	17.25	19.93	20.42
Interest on operating loans	3.51	3.24	3.10	3.47	4.21	5.06	9.86	6.43	7.63	8.41	5.96	5.25	7.32
Interest on real estate	7.24	7.24	7.23	7.23	7.26	7.30	12.22	7.50	8.42	8.73	9.34	8.21	11.47
Total, fixed cash expenses	18.46	19.15	19.83	21.22	24.29	31.15	42.56	34.55	38.01	40.65	37.07	37.36	44.76
Total, cash expenses	42.61	42.08	46.51	52.45	60.62	76.29	92.50	87.27	87.81	91.89	83.57	79.51	89.44
Gross value less cash expenses (excl. direct Gov't. payments)	64.21	74.67	73.34	49.28	34.91	39.66	44.20	31.80	30.95	31.32	11.47	2.63	27.30
Capital replacement	8.69	11.12	12.17	15.09	16.65	18.35	19.76	24.30	26.26	26.05	20.70	30.52	30.57
Gross value less cash expenses and replacement (excl. direct Gov't. payments)	55.52	63.55	61.17	34.19	18.26	21.31	24.44	7.50	4.69	5.27	-9.23	-27.89	-3.27
Economic (full ownership) costs:													
Variable cash expenses	24.15	22.93	26.68	31.22	36.34	45.14	49.94	52.72	49.80	51.24	46.50	42.15	44.68
General farm overhead	3.79	4.34	4.62	5.09	6.77	5.76	7.46	5.15	5.48	5.61	4.52	3.97	5.55
Taxes and insurance	3.92	4.33	4.88	5.44	6.05	13.03	13.02	15.47	16.48	17.90	17.25	19.93	20.42
Capital replacement	8.69	11.12	12.17	15.09	16.65	18.35	19.76	24.30	26.26	26.05	20.70	30.52	30.57
Allocated returns to owned inputs:													
Return to operating capital	.40	.34	.38	.67	.98	1.35	1.80	1.65	1.26	1.49	1.07	.72	.82
Return to other nonland capital	2.60	3.11	3.04	3.52	3.82	3.82	3.74	4.93	4.80	6.04	4.57	6.93	7.96
Net land return	20.07	17.95	19.88	25.77	29.78	29.39	28.12	33.38	31.83	33.50	22.09	18.28	20.82
Unpaid labor	4.84	5.41	5.98	10.15	11.19	11.96	13.14	14.19	13.79	14.63	12.89	16.28	17.11
Total, economic costs	68.46	69.53	77.64	96.94	111.57	128.80	136.98	151.78	149.70	156.46	129.59	138.78	147.93
Residual returns to management and risk (excl. direct Gov't. payments)	38.36	47.22	42.22	4.79	-16.04	-12.85	-.28	-32.71	-30.94	-33.25	-34.55	-56.64	-31.19
Harvest-period price (dollars/bu.)	1.42	1.51	1.07	1.16	1.32	1.46	1.72	1.45	1.52	1.69	1.32	.86	1.37
Yield (bu./planted acre)	47.30	47.40	61.60	51.80	53.70	57.92	60.05	55.14	52.73	55.10	45.89	62.35	60.43

Table 18--Oats production costs, Northeast, 1975-87

Item	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Dollars per planted acre													
Gross value (excl. direct Gov't. payments):													
Primary crop	73.31	79.79	56.61	66.25	79.90	98.99	103.64	92.44	86.17	106.09	85.76	53.42	73.83
Secondary crop	40.60	46.65	43.41	42.40	38.92	43.45	62.94	37.78	37.91	41.34	32.67	38.43	34.78
Total	113.90	126.43	100.02	108.65	118.82	142.44	166.58	130.22	124.08	147.43	118.43	91.85	108.61
Cash expenses:													
Seed	3.86	3.58	3.88	6.37	6.16	6.90	9.25	8.70	7.29	12.47	12.61	7.63	7.94
Fertilizer	21.29	16.15	14.52	14.29	15.97	20.39	21.28	22.35	19.82	20.86	20.09	17.63	16.82
Lime and gypsum	.00	.91	1.93	1.55	1.65	1.79	1.92	9.69	9.78	10.30	10.00	9.82	10.70
Chemicals	.43	.36	.42	2.82	2.88	3.06	3.32	3.06	3.13	3.17	3.29	3.20	3.15
Custom operations	4.16	4.55	4.97	5.69	6.26	6.91	7.35	5.51	5.56	5.53	5.82	5.53	5.24
Fuel, lube, and electricity	4.80	5.17	5.61	6.34	9.36	12.86	15.39	14.79	13.52	11.70	12.62	8.98	9.96
Repairs	5.84	5.80	5.86	6.53	6.89	7.68	8.65	9.79	10.08	9.81	9.74	9.99	10.07
Hired labor	1.05	1.18	1.31	1.75	1.81	1.97	2.14	2.20	2.22	1.63	2.26	2.59	2.89
Miscellaneous	.98	.96	.96	1.00	1.06	1.75	1.80	1.34	1.34	1.36	1.35	1.30	1.36
Technical services	.00	.00	.00	.00	.00	.00	.00	.17	.16	.15	.17	.16	.17
Total, variable cash expenses	42.40	38.65	39.46	46.35	52.04	63.31	71.10	77.60	72.90	76.98	77.95	66.83	68.30
General farm overhead	3.68	4.22	4.49	7.85	11.35	15.09	9.82	5.56	9.57	9.75	9.07	7.04	8.32
Taxes and insurance	3.93	4.46	5.09	5.52	6.09	11.77	13.19	16.47	17.04	17.55	18.71	21.06	21.62
Interest on operating loans	3.80	3.52	3.36	3.77	4.57	5.49	5.00	5.22	4.81	7.20	4.82	3.74	4.42
Interest on real estate	16.15	16.14	16.12	16.11	16.19	16.28	10.25	10.41	7.20	7.23	10.37	8.05	9.51
Total, fixed cash expenses	27.56	28.34	29.06	33.25	38.20	48.63	38.26	37.66	38.62	41.73	42.97	39.89	43.87
Total, cash expenses	69.96	66.99	68.53	79.59	90.24	111.94	109.36	115.26	111.52	118.71	120.92	106.72	112.17
Gross value less cash expenses (excl. direct Gov't. payments)	43.94	59.45	31.50	29.06	28.57	30.50	57.22	14.96	12.56	28.72	-2.49	-14.87	-3.56
Capital replacement	9.31	12.91	14.60	15.13	16.48	18.13	19.83	28.78	30.07	31.31	31.61	37.26	37.53
Gross value less cash expenses and replacement (excl. direct Gov't. payments)	34.63	46.54	16.90	13.93	12.09	12.37	37.39	-13.82	-17.51	-2.59	-34.10	-52.13	-41.09
Economic (full ownership) costs:													
Variable cash expenses	42.40	38.65	39.46	46.35	52.04	63.31	71.10	77.60	72.90	76.98	77.95	66.83	68.30
General farm overhead	3.68	4.22	4.49	7.85	11.35	15.09	9.82	5.56	9.57	9.75	9.07	7.04	8.32
Taxes and insurance	3.93	4.46	5.09	5.52	6.09	11.77	13.19	16.47	17.04	17.55	18.71	21.06	21.62
Capital replacement	9.31	12.91	14.60	15.13	16.48	18.13	19.83	28.78	30.07	31.31	31.61	37.26	37.53
Allocated returns to owned inputs:													
Return to operating capital	.85	.67	.71	1.03	1.51	2.10	2.83	2.50	1.89	2.25	1.76	1.10	1.24
Return to other nonland capital	2.83	3.67	3.71	3.59	3.84	3.84	3.83	6.28	5.92	7.45	7.09	8.59	9.94
Net land return	5.69	6.44	8.56	13.87	14.54	10.48	10.82	11.55	11.04	12.03	8.76	6.61	8.05
Unpaid labor	7.66	8.62	9.61	12.86	13.30	14.48	15.70	16.14	16.25	16.49	16.54	19.02	21.22
Total, economic costs	76.35	79.65	86.23	106.19	119.15	139.20	147.12	164.88	164.68	173.81	171.48	167.51	176.22
Residual returns to management and risk (excl. direct Gov't. payments)	37.55	46.78	13.79	2.47	-.34	3.24	19.46	-34.66	-40.60	-26.38	-53.05	-75.66	-67.61
Harvest-period price (dollars/bu.)	1.52	1.63	1.15	1.25	1.42	1.72	1.76	1.53	1.60	1.96	1.12	.83	1.27
Yield (bu./planted acre)	48.20	49.10	49.40	53.00	56.40	57.68	59.01	60.51	53.74	54.24	76.89	64.53	58.30

Table 19--Oats production costs, Northern Plains, 1975-87

Item	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Dollars per planted acre													
Gross value (excl. direct Gov't. payments):													
Primary crop	50.78	40.73	45.56	52.47	57.59	51.81	72.15	74.08	59.06	70.24	44.31	42.90	63.92
Secondary crop	15.48	13.11	19.24	18.49	13.31	16.89	19.66	6.74	6.27	7.24	8.03	6.71	6.90
Total	66.26	53.83	64.80	70.96	70.90	68.70	91.81	80.82	65.33	77.48	52.34	49.61	70.82
Cash expenses:													
Seed	3.41	3.42	2.82	3.74	3.89	4.52	6.17	6.18	4.80	6.65	6.27	4.19	4.44
Fertilizer	6.38	4.44	4.31	4.41	4.92	4.82	4.75	7.74	7.08	7.88	7.53	6.54	6.26
Chemicals	.39	.25	.22	.60	.61	.61	.69	.98	1.05	1.01	1.01	.95	.96
Custom operations	1.64	1.32	2.28	2.57	2.82	2.99	3.33	2.64	2.32	2.69	1.57	1.36	1.56
Fuel, lube, and electricity	1.93	1.53	2.62	2.91	4.98	6.83	8.28	9.45	8.22	6.89	6.62	5.00	6.11
Repairs	3.73	2.73	4.35	4.77	5.02	5.34	6.60	7.24	7.29	7.20	5.81	7.20	7.30
Hired labor	.52	.56	.66	.82	.84	.88	1.05	1.11	1.11	.90	1.05	1.34	1.27
Miscellaneous	.38	.37	.38	.39	.41	.63	.66	.51	.51	.52	.51	.50	.52
Technical services	.00	.00	.00	.00	.00	.00	.00	.02	.02	.02	.02	.03	.02
Total, variable cash expenses	18.38	14.62	17.63	20.21	23.49	26.62	31.53	35.87	32.40	33.76	30.39	27.11	28.43
General farm overhead	1.60	1.83	1.95	3.43	4.03	3.53	4.74	3.94	4.26	4.38	2.30	2.21	3.15
Taxes and insurance	4.00	4.07	4.66	5.06	5.51	6.31	6.96	7.55	7.39	8.03	7.66	9.27	9.55
Interest on operating loans	2.46	2.27	2.18	2.44	2.96	3.55	6.89	5.08	6.21	6.50	2.80	2.67	3.82
Interest on real estate	3.33	3.33	3.33	3.32	3.34	3.36	5.72	6.77	6.07	5.31	3.42	3.27	4.67
Total, fixed cash expenses	11.39	11.51	12.11	14.25	15.84	16.75	24.31	23.34	23.93	24.22	16.18	17.42	21.19
Total, cash expenses	29.77	26.13	29.74	34.46	39.33	43.37	55.84	59.21	56.33	57.98	46.57	44.53	49.62
Gross value less cash expenses (excl. direct Gov't. payments)	36.48	27.71	35.06	36.50	31.57	25.33	35.97	21.61	9.00	19.50	5.77	5.08	21.20
Capital replacement	9.15	8.76	10.19	12.46	13.03	13.42	16.28	18.24	18.59	19.28	15.26	21.22	21.48
Gross value less cash expenses and replacement (excl. direct Gov't. payments)	27.33	18.95	24.87	24.04	18.54	11.91	19.69	3.37	-9.59	.22	-9.49	-16.14	-.28
Economic (full ownership) costs:													
Variable cash expenses	18.38	14.62	17.63	20.21	23.49	26.62	31.53	35.87	32.40	33.76	30.39	27.11	28.43
General farm overhead	1.60	1.83	1.95	3.43	4.03	3.53	4.74	3.94	4.26	4.38	2.30	2.21	3.15
Taxes and insurance	4.00	4.07	4.66	5.06	5.51	6.31	6.96	7.55	7.39	8.03	7.66	9.27	9.55
Capital replacement	9.15	8.76	10.19	12.46	13.03	13.42	16.28	18.24	18.59	19.28	15.26	21.22	21.48
Allocated returns to owned inputs:													
Return to operating capital	.34	.24	.26	.39	.58	.77	1.08	.92	.68	.79	.63	.38	.42
Return to other nonland capital	2.71	2.43	2.52	2.88	2.96	2.75	3.05	3.65	3.29	4.22	3.15	4.47	5.20
Net land return	13.15	10.39	12.15	13.42	15.86	14.95	19.88	21.13	18.13	20.01	12.36	11.65	15.25
Unpaid labor	3.85	4.07	4.80	6.02	6.18	6.47	7.74	8.17	8.18	9.10	7.68	9.85	9.30
Total, economic costs	53.18	46.42	54.16	63.87	71.64	74.82	91.26	99.47	92.92	99.57	79.43	86.16	92.79
Residual returns to management and risk (excl. direct Gov't. payments)	13.08	7.41	10.64	7.09	-.74	-6.12	.55	-18.65	-27.59	-22.09	-27.09	-36.55	-21.97
Harvest-period price (dollars/bu.)	1.35	1.44	1.02	1.11	1.26	1.47	1.72	1.36	1.33	1.55	1.12	.85	1.33
Yield (bu./planted acre)	37.70	28.30	44.90	47.40	45.90	35.16	41.95	54.57	44.29	45.39	39.56	50.37	48.14

Table 20--All wheat production costs, U.S., 1975-87

Item	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Dollars per planted acre													
Gross value (excl. direct Gov't. payments):													
Primary crop	100.49	73.27	63.92	87.95	121.30	112.41	114.35	110.32	128.52	113.97	93.52	66.23	75.69
Secondary crop	3.90	4.18	3.96	3.89	3.56	4.07	4.61	4.37	4.45	4.48	2.48	2.18	2.31
Total	104.39	77.46	67.88	91.84	124.86	116.48	118.96	114.69	132.97	118.45	96.00	68.41	78.00
Cash expenses:													
Seed	6.44	5.83	3.93	4.00	5.01	6.51	7.19	6.65	6.37	6.48	7.59	7.29	6.64
Fertilizer	11.30	10.22	9.28	8.02	9.90	13.63	17.26	16.93	17.69	17.75	15.09	13.29	12.07
Lime and gypsum	.14	.15	.13	.12	.16	.23	.35	.63	.67	.62	.82	.95	.79
Chemicals	1.19	1.30	1.14	2.12	2.08	2.23	2.41	3.16	3.27	3.19	4.26	4.30	4.15
Custom operations	1.80	1.84	2.04	2.35	2.68	2.94	4.41	5.74	5.90	5.93	3.98	3.87	3.71
Fuel, lube, and electricity	4.02	4.04	4.45	5.06	7.64	10.62	12.33	11.77	11.06	9.54	9.93	6.87	7.71
Repairs	5.36	4.97	5.10	5.72	6.47	7.23	7.80	7.18	7.77	7.49	6.56	6.42	6.55
Hired labor	2.10	2.23	2.49	2.50	2.68	2.88	3.00	3.02	3.21	.81	2.43	2.52	2.51
Purchased irrigation water	.14	.14	.16	.18	.25	.29	.30	.38	.33	.35	.25	.24	.24
Miscellaneous	.12	.12	.12	.12	.14	.20	.11	.44	.38	.40	.00	.00	.00
Technical services	.00	.00	.00	.00	.00	.00	.13	.12	.12	.11	.19	.19	.18
Total, variable cash expenses	32.59	30.82	28.83	30.19	37.01	46.76	55.29	56.03	56.77	52.67	51.10	45.94	44.56
General farm overhead	4.06	4.53	4.83	5.60	6.62	7.08	7.39	7.11	8.05	8.62	5.10	4.81	5.98
Taxes and insurance	4.21	4.39	4.93	5.34	5.95	7.33	7.39	6.90	7.69	7.86	7.44	7.68	7.85
Interest on operating loans	4.72	4.36	4.17	4.68	5.67	6.81	9.74	8.97	10.32	11.35	5.35	3.87	3.35
Interest on real estate	7.70	7.70	7.69	7.69	7.73	7.77	10.07	9.48	11.54	11.63	7.34	5.37	6.70
Total, fixed cash expenses	20.69	20.99	21.62	23.31	25.97	28.99	34.59	32.46	37.60	39.46	25.23	21.73	23.88
Total, cash expenses	53.28	51.81	50.45	53.50	62.97	75.75	89.88	88.49	94.37	92.13	76.33	67.67	68.44
Gross value less cash expenses (excl. direct Gov't. payments)	51.10	25.65	17.43	38.34	61.89	40.73	29.08	26.20	38.60	26.32	19.67	.74	9.56
Capital replacement	10.46	11.73	12.49	14.64	16.87	18.15	19.30	19.41	21.02	20.48	19.63	19.64	20.03
Gross value less cash expenses and replacement (excl. direct Gov't. payments)	40.64	13.92	4.94	23.70	45.02	22.58	9.78	6.79	17.58	5.84	.04	-18.90	-10.47
Economic (full ownership) costs:													
Variable cash expenses	32.59	30.82	28.83	30.19	37.01	46.76	55.29	56.03	56.77	52.67	51.10	45.94	44.56
General farm overhead	4.06	4.53	4.83	5.60	6.62	7.08	7.39	7.11	8.05	8.62	5.10	4.81	5.98
Taxes and insurance	4.21	4.39	4.93	5.34	5.95	7.33	7.39	6.90	7.69	7.86	7.44	7.68	7.85
Capital replacement	10.46	11.73	12.49	14.64	16.87	18.15	19.30	19.41	21.02	20.48	19.63	19.64	20.03
Allocated returns to owned inputs:													
Return to operating capital	1.21	1.01	.96	1.22	1.95	2.83	3.91	3.09	2.51	2.72	2.11	1.37	1.40
Return to other nonland capital	2.97	3.12	2.97	3.25	3.68	3.64	3.46	3.24	3.19	3.84	3.67	3.73	4.39
Net land return	24.64	18.39	16.27	36.41	35.30	30.06	29.44	29.75	34.41	29.78	30.81	23.94	25.34
Unpaid labor	4.66	4.95	5.53	5.56	5.95	6.40	6.67	6.72	7.14	9.35	5.40	5.61	5.60
Total, economic costs	84.81	78.95	76.82	102.21	113.33	122.25	132.85	132.25	140.78	135.31	125.26	112.72	115.14
Residual returns to management and risk (excl. direct Gov't. payments)	19.58	-1.49	-8.94	-10.37	11.53	-5.77	-13.89	-17.56	-7.81	-16.86	-29.26	-44.31	-37.14
Harvest-period price (dollars/bu.)	3.53	2.70	2.31	2.94	3.74	3.76	3.63	3.38	3.48	3.37	2.98	2.30	2.39
Yield (bu./planted acre)	28.50	27.10	27.70	29.90	32.40	29.87	31.47	32.64	36.89	33.79	31.41	28.74	31.64

Table 21--All wheat production costs, Central Plains, 1975-87

Item	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Dollars per planted acre													
Gross value (excl. direct Gov't. payments):													
Primary crop	88.61	65.93	57.29	84.87	123.85	111.36	88.50	104.95	130.40	111.90	98.30	63.26	76.85
Secondary crop	1.12	1.16	1.12	1.14	.98	1.10	1.24	2.12	2.11	2.19	.58	.51	.53
Total	89.73	67.09	58.41	86.01	124.82	112.46	89.74	107.07	132.51	114.09	98.88	63.77	77.38
Cash expenses:													
Seed	4.11	3.84	2.27	2.24	2.98	4.11	4.28	4.54	4.30	4.30	6.67	6.20	5.43
Fertilizer	6.40	6.21	5.62	4.68	5.73	8.29	9.38	10.12	10.14	9.99	7.75	6.73	6.07
Lime and gypsum	.00	.00	.00	.00	.00	.00	.00	.67	.63	.51	3.36	4.34	3.49
Chemicals	.42	.72	.64	.79	.78	.87	.96	1.09	1.15	1.15	.97	.97	.97
Custom operations	2.19	2.18	2.45	2.94	3.08	3.47	3.54	6.54	6.90	6.94	4.60	4.44	4.36
Fuel, lube, and electricity	3.55	3.47	3.88	4.59	7.12	9.97	11.38	10.72	9.99	8.45	7.51	4.65	5.79
Repairs	4.91	4.43	4.61	5.37	6.08	6.99	7.55	7.02	7.58	7.17	6.36	6.19	6.39
Hired labor	.59	.61	.68	.60	.64	.67	.68	.74	.79	.78	2.28	2.47	2.28
Purchased irrigation water	.00	.00	.00	.00	.00	.00	.00	.03	.03	.03	.00	.00	.00
Miscellaneous	.01	.01	.01	.01	.01	.01	.00	.22	.22	.22	.00	.00	.00
Technical services	.00	.00	.00	.00	.00	.00	.00	.06	.06	.07	.07	.07	.07
Total, variable cash expenses	22.18	21.47	20.16	21.22	26.42	34.38	37.77	41.75	41.79	39.62	39.57	36.06	34.85
General farm overhead	4.48	4.77	5.27	5.08	6.10	7.18	5.84	6.19	8.79	9.04	5.31	3.85	6.19
Taxes and insurance	4.25	4.37	4.88	5.22	5.83	7.58	8.04	7.53	8.11	8.64	8.57	8.66	9.00
Interest on operating loans	4.99	4.62	4.42	4.95	6.01	7.21	8.08	7.97	12.48	13.08	5.99	3.21	3.35
Interest on real estate	6.77	6.77	6.76	6.76	6.79	6.83	7.78	10.44	12.64	11.63	7.26	4.55	7.77
Total, fixed cash expenses	20.50	20.53	21.33	22.01	24.73	28.80	29.74	32.13	42.02	42.39	27.13	20.27	26.31
Total, cash expenses	42.68	41.99	41.50	43.23	51.15	63.18	67.51	73.88	83.81	82.01	66.70	56.33	61.16
Gross value less cash expenses (excl. direct Gov't. payments)	47.04	25.10	16.91	42.78	73.68	49.28	22.23	33.19	48.70	32.08	32.18	7.44	16.22
Capital replacement	10.25	11.47	11.93	13.81	15.76	17.62	18.81	18.95	20.33	19.74	18.46	18.00	18.47
Gross value less cash expenses and replacement (excl. direct Gov't. payments)	36.79	13.63	4.98	28.97	57.92	31.66	3.42	14.24	28.37	12.34	13.72	-10.56	-2.25
Economic (full ownership) costs:													
Variable cash expenses	22.18	21.47	20.16	21.22	26.42	34.38	37.77	41.75	41.79	39.62	39.57	36.06	34.85
General farm overhead	4.48	4.77	5.27	5.08	6.10	7.18	5.84	6.19	8.79	9.04	5.31	3.85	6.19
Taxes and insurance	4.25	4.37	4.88	5.22	5.83	7.58	8.04	7.53	8.11	8.64	8.57	8.66	9.00
Capital replacement	10.25	11.47	11.93	13.81	15.76	17.62	18.81	18.95	20.33	19.74	18.46	18.00	18.47
Allocated returns to owned inputs:													
Return to operating capital	1.03	.89	.82	1.09	1.78	2.59	3.49	2.85	2.22	2.36	1.96	1.30	1.33
Return to other nonland capital	2.99	3.13	2.91	3.15	3.53	3.57	3.46	3.22	3.15	3.72	3.54	3.52	4.19
Net land return	25.76	18.44	15.55	21.93	34.90	29.31	20.87	28.98	36.52	30.13	24.10	15.20	18.17
Unpaid labor	6.75	7.00	7.82	6.91	7.36	7.65	7.88	8.56	9.05	9.02	5.09	5.51	5.09
Total, economic costs	77.70	71.54	69.34	78.40	101.68	109.88	106.16	118.03	129.96	122.26	106.60	92.10	97.29
Residual returns to management and risk (excl. direct Gov't. payments)	12.03	-4.45	-10.93	7.61	23.15	2.58	-16.42	-10.96	2.55	-8.17	-7.72	-28.33	-19.91
Harvest-period price (dollars/bu.)	3.34	2.69	2.26	2.98	3.80	3.50	3.67	3.37	3.37	3.29	2.81	2.13	2.26
Yield (bu./planted acre)	26.50	24.50	25.40	28.50	32.60	31.79	24.09	31.13	38.73	34.02	35.01	29.69	33.98

Table 22--All wheat production costs, North Central, 1975-87

Item	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Dollars per planted acre													
Gross value (excl. direct Gov't. payments):													
Primary crop	126.47	97.41	92.85	109.30	166.40	169.84	145.71	112.96	142.00	131.91	127.95	69.28	113.55
Secondary crop	27.10	29.25	30.77	24.98	17.28	16.20	17.58	12.97	13.36	13.24	16.65	13.52	16.75
Total	153.56	126.66	123.63	134.28	183.68	186.04	163.29	125.93	155.36	145.15	144.60	82.80	130.30
Cash expenses:													
Seed	10.66	9.05	6.07	5.71	8.52	10.72	10.69	9.31	9.09	10.91	12.27	11.86	10.40
Fertilizer	26.61	20.94	22.63	18.92	22.80	33.98	36.38	30.03	37.25	40.45	26.61	25.01	23.75
Lime and gypsum	.62	.66	.71	.72	.83	.98	1.07	2.11	2.19	2.52	.36	.39	.35
Chemicals	.40	.30	.27	.34	.32	.34	.37	.43	.47	.41	1.36	1.47	1.49
Custom operations	2.03	2.09	2.58	2.46	2.67	2.99	3.11	5.30	5.47	5.54	1.75	1.75	1.75
Fuel, lube, and electricity	4.01	4.06	4.98	4.68	7.16	10.18	11.30	10.67	10.11	8.07	8.49	4.85	6.54
Repairs	5.01	4.68	5.35	4.95	5.64	6.38	6.86	5.64	6.35	5.88	5.63	4.73	5.59
Hired labor	.42	.46	.51	.78	.86	.93	1.03	.93	.94	.91	3.13	2.97	3.39
Technical services	1.02	1.00	1.00	1.04	1.04	1.36	.71	1.00	1.00	1.01	.04	.04	.02
Total, variable cash expenses	50.80	43.24	44.11	39.60	49.84	67.86	71.52	65.41	72.87	75.69	59.63	53.07	53.27
General farm overhead	4.57	5.21	5.56	6.09	7.33	8.71	7.58	5.56	7.57	7.48	5.36	3.96	7.78
Taxes and insurance	4.00	4.28	4.77	5.31	6.00	11.82	10.97	11.88	13.14	12.58	11.70	11.97	12.65
Interest on operating loans	5.31	4.91	4.69	5.26	6.38	7.66	8.99	6.43	9.80	10.29	6.46	3.31	4.52
Interest on real estate	10.96	10.96	10.94	10.94	10.99	11.05	11.83	10.02	15.35	14.84	10.63	6.52	9.79
Total, fixed cash expenses	24.83	25.36	25.96	27.60	30.70	39.24	39.37	33.89	45.86	45.19	34.15	25.76	34.74
Total, cash expenses	75.63	68.60	70.07	67.19	80.54	107.10	110.89	99.30	118.73	120.88	93.78	78.83	88.01
Gross value less cash expenses (excl. direct Gov't. payments)	77.94	58.06	53.56	67.08	103.15	78.94	52.40	26.63	36.63	24.27	50.82	3.97	42.29
Capital replacement	9.53	10.66	11.40	14.56	16.67	17.69	18.53	20.27	22.44	22.12	22.63	19.24	21.81
Gross value less cash expenses and replacement (excl. direct Gov't. payments)	68.41	47.40	42.16	52.52	86.48	61.25	33.87	6.36	14.19	2.15	28.19	-15.27	20.48
Economic (full ownership) costs:													
Variable cash expenses	50.80	43.24	44.11	39.60	49.84	67.86	71.52	65.41	72.87	75.69	59.63	53.07	53.27
General farm overhead	4.57	5.21	5.56	6.09	7.33	8.71	7.58	5.56	7.57	7.48	5.36	3.96	7.78
Taxes and insurance	4.00	4.28	4.77	5.31	6.00	11.82	10.97	11.88	13.14	12.58	11.70	11.97	12.65
Capital replacement	9.53	10.66	11.40	14.56	16.67	17.69	18.53	20.27	22.44	22.12	22.63	19.24	21.81
Allocated returns to owned inputs:													
Return to operating capital	2.24	1.67	1.55	1.77	2.85	4.29	5.52	4.01	3.60	4.21	3.12	2.12	2.22
Return to other nonland capital	2.80	2.93	2.79	3.34	3.75	3.61	3.45	3.65	3.69	4.43	4.24	3.68	4.88
Net land return	37.10	28.25	26.96	35.68	57.10	47.53	37.58	29.84	35.91	32.21	50.43	29.26	44.23
Unpaid labor	4.88	5.31	5.89	8.93	9.87	10.74	11.80	10.66	10.79	10.45	6.95	6.62	7.53
Total, economic costs	115.90	101.56	103.02	115.28	153.42	172.25	166.95	151.28	170.01	169.18	164.07	129.92	154.38
Residual returns to management and risk (excl. direct Gov't. payments)	37.66	25.10	20.61	19.00	30.26	13.79	-3.66	-25.35	-14.65	-24.03	-19.47	-47.12	-24.08
Harvest-period price (dollars/bu.)	3.39	2.73	2.29	3.02	3.85	3.80	3.42	3.14	3.28	3.26	2.89	2.29	2.37
Yield (bu./planted acre)	37.30	35.70	40.60	36.20	43.20	44.73	42.55	35.97	43.30	40.44	44.34	30.29	47.96

Table 23--All wheat production costs, Northeast, 1975-87

Item	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Dollars per planted acre													
Gross value (excl. direct Gov't. payments):													
Primary crop	115.13	83.83	76.51	99.48	129.63	151.68	122.08	116.91	133.15	129.91	146.17	117.68	104.50
Secondary crop	61.20	62.45	62.91	56.40	42.29	42.51	66.56	61.26	59.31	72.14	83.88	82.74	95.48
Total	176.33	146.28	139.41	155.87	171.92	194.19	188.64	178.17	192.46	202.05	230.05	200.42	199.98
Cash expenses:													
Seed	11.03	9.45	7.25	7.37	9.89	12.16	13.98	12.52	12.13	15.03	18.78	15.20	18.03
Fertilizer	26.60	23.54	24.78	23.02	25.12	37.31	41.19	35.44	25.81	23.34	33.64	29.55	26.31
Lime and gypsum	.00	1.92	1.94	2.42	2.50	2.79	3.06	5.96	5.56	8.19	10.96	10.68	10.40
Chemicals	.05	.10	.09	.10	.10	.11	.12	.86	1.00	.33	5.74	5.70	6.42
Custom operations	3.76	3.65	4.31	4.54	4.67	5.28	5.62	5.28	5.41	5.60	4.38	4.38	4.38
Fuel, lube, and electricity	5.20	4.98	5.84	6.06	8.87	12.43	14.47	15.47	14.23	12.93	11.46	7.75	8.39
Repairs	6.60	5.83	6.37	6.52	6.77	7.81	8.67	9.63	10.21	9.94	7.75	7.61	7.61
Hired labor	.67	.70	.78	1.12	1.14	1.27	1.37	1.60	1.53	1.82	3.71	4.03	4.57
Miscellaneous	1.04	1.02	1.02	1.06	1.15	1.88	1.94	2.05	2.06	2.10	.00	.00	.00
Technical services	.00	.00	.00	.00	.00	.00	.00	.16	.16	.14	.00	.00	.00
Total, variable cash expenses	54.95	51.18	52.40	52.21	60.21	81.04	90.42	88.97	78.10	79.42	96.42	84.90	86.11
General farm overhead	4.58	5.23	5.58	9.48	13.71	19.37	10.59	6.64	12.40	12.19	17.62	29.92	25.92
Taxes and insurance	4.01	4.34	4.88	5.62	6.18	13.87	15.31	18.37	19.17	21.05	20.81	21.89	22.52
Interest on operating loans	4.89	4.52	4.32	4.84	5.87	7.05	5.39	6.24	6.23	9.00	9.36	4.41	9.76
Interest on real estate	20.72	20.71	20.68	20.67	20.77	20.89	11.05	12.44	9.34	9.04	20.15	21.14	20.16
Total, fixed cash expenses	34.19	34.80	35.46	40.61	46.53	61.18	42.34	43.69	47.14	51.28	67.94	77.36	78.36
Total, cash expenses	89.13	85.99	87.85	92.82	106.74	142.22	132.76	132.66	125.24	130.70	164.36	162.26	164.47
Gross value less cash expenses (excl. direct Gov't. payments)	87.20	60.29	51.56	63.05	65.18	51.97	55.88	45.51	67.22	71.35	65.69	38.16	35.51
Capital replacement	10.17	11.64	12.66	16.01	17.21	19.16	20.71	29.90	32.00	34.02	30.48	30.34	30.10
Gross value less cash expenses and replacement (excl. direct Gov't. payments)	77.03	48.65	38.90	47.04	47.97	32.81	35.17	15.61	35.22	37.33	35.21	7.82	5.41
Economic (full ownership) costs:													
Variable cash expenses	54.95	51.18	52.40	52.21	60.21	81.04	90.42	88.97	78.10	79.42	96.42	84.90	86.11
General farm overhead	4.58	5.23	5.58	9.48	13.71	19.37	10.59	6.64	12.40	12.19	17.62	29.92	25.92
Taxes and insurance	4.01	4.34	4.88	5.62	6.18	13.87	15.31	18.37	19.17	21.05	20.81	21.89	22.52
Capital replacement	10.17	11.64	12.66	16.01	17.21	19.16	20.71	29.90	32.00	34.02	30.48	30.34	30.10
Allocated returns to owned inputs:													
Return to operating capital	2.10	1.66	1.99	2.57	3.94	6.02	8.12	6.42	4.50	5.07	5.43	3.43	3.73
Return to other nonland capital	3.08	3.30	3.21	3.79	4.00	4.04	3.98	5.86	5.63	7.55	5.73	5.84	6.69
Net land return	7.85	10.68	13.63	21.20	22.11	17.08	17.25	19.82	20.70	22.88	33.57	26.94	30.53
Unpaid labor	7.66	8.10	9.02	12.88	13.14	14.59	15.73	18.34	17.63	20.99	8.26	8.96	10.16
Total, economic costs	94.39	96.14	103.35	123.76	140.49	175.17	182.11	194.33	190.13	203.17	218.32	212.22	215.76
Residual returns to management and risk (excl. direct Gov't. payments)	81.94	50.14	36.06	32.12	31.43	19.02	6.53	-16.16	2.33	-1.12	11.73	-11.80	-15.78
Harvest-period price (dollars/bu.)	3.43	2.76	2.31	3.05	3.89	3.97	3.28	3.26	3.38	3.56	2.96	2.69	2.50
Yield (bu./planted acre)	33.60	30.40	33.10	32.60	33.30	38.18	37.24	35.91	39.37	36.46	49.31	43.74	41.84

Table 24--All wheat production costs, Northern Plains, 1975-87

Item	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Dollars per planted acre													
Gross value (excl. direct Gov't. payments):													
Primary crop	96.32	66.46	65.41	82.08	92.31	73.40	105.23	109.72	108.35	118.11	86.36	67.61	74.32
Secondary crop	.00	.00	.00	.00	.00	.00	.00	.89	.91	.90	1.95	1.41	1.55
Total	96.32	66.46	65.41	82.08	92.31	73.40	105.23	110.61	109.26	119.01	88.31	69.02	75.87
Cash expenses:													
Seed	7.66	6.85	5.02	5.35	5.40	6.70	7.86	7.33	7.10	7.50	6.86	6.62	5.82
Fertilizer	8.26	7.95	6.32	7.52	8.25	8.84	9.70	10.55	12.38	11.15	11.97	10.30	9.48
Chemicals	2.04	1.17	1.01	3.05	3.04	3.36	3.65	5.39	5.81	5.61	4.40	4.39	4.39
Custom operations	.81	.90	1.05	1.19	1.39	1.36	1.50	1.89	1.95	2.04	3.24	3.46	3.43
Fuel, lube, and electricity	3.11	3.37	3.91	4.38	6.51	8.82	10.76	9.26	8.86	7.55	6.63	4.15	5.01
Repairs	4.69	4.69	5.07	5.60	6.47	6.84	8.49	6.69	7.18	7.29	5.79	6.01	6.09
Hired labor	.48	.54	.59	.56	.57	.57	.68	.63	.68	.71	1.80	2.00	1.93
Purchased irrigation water	.02	.02	.03	.03	.01	.01	.01	.23	.23	.23	.00	.00	.00
Miscellaneous	.00	.00	.00	.00	.00	.00	.00	.21	.21	.21	.00	.00	.00
Technical services	.00	.00	.00	.00	.00	.00	.00	.24	.25	.23	.04	.04	.04
Total, variable cash expenses	27.07	25.48	22.99	27.68	31.64	36.50	42.65	42.42	44.65	42.53	40.73	36.97	36.19
General farm overhead	3.74	4.42	4.55	4.52	5.68	4.64	7.39	6.99	7.36	11.53	4.27	3.62	6.14
Taxes and insurance	4.22	4.40	4.98	5.35	6.04	6.32	6.95	6.74	7.22	8.03	6.63	7.15	7.32
Interest on operating loans	3.24	2.99	2.86	3.21	3.89	4.67	10.04	8.99	10.26	15.82	5.26	4.28	3.32
Interest on real estate	4.38	4.38	4.38	4.37	4.40	4.42	11.04	10.62	10.33	16.99	6.85	5.47	7.56
Total, fixed cash expenses	15.58	16.19	16.77	17.45	20.00	20.05	35.42	33.34	35.17	52.37	23.01	20.52	24.34
Total, cash expenses	42.66	41.68	39.76	45.13	51.64	56.55	78.07	75.76	79.82	94.90	63.74	57.49	60.53
Gross value less cash expenses (excl. direct Gov't. payments)	53.66	24.79	25.65	36.95	40.67	16.85	27.16	34.85	29.44	24.11	24.57	11.53	15.34
Capital replacement	10.84	11.54	12.67	14.69	16.96	17.09	20.95	20.29	21.59	22.42	19.77	21.14	21.47
Gross value less cash expenses and replacement (excl. direct Gov't. payments)	42.82	13.25	12.98	22.26	23.71	-.24	6.21	14.56	7.85	1.69	4.80	-9.61	-6.13
Economic (full ownership) costs:													
Variable cash expenses	27.07	25.48	22.99	27.68	31.64	36.50	42.65	42.42	44.65	42.53	40.73	36.97	36.19
General farm overhead	3.74	4.42	4.55	4.52	5.68	4.64	7.39	6.99	7.36	11.53	4.27	3.62	6.14
Taxes and insurance	4.22	4.40	4.98	5.35	6.04	6.32	6.95	6.74	7.22	8.03	6.63	7.15	7.32
Capital replacement	10.84	11.54	12.67	14.69	16.96	17.09	20.95	20.29	21.59	22.42	19.77	21.14	21.47
Allocated returns to owned inputs:													
Return to operating capital	.71	.62	.58	.75	1.13	1.51	2.03	1.50	1.27	1.37	.90	.56	.59
Return to other nonland capital	3.18	3.17	3.11	3.37	3.82	3.47	3.90	3.51	3.35	4.35	3.70	4.04	4.71
Net land return	21.96	17.95	19.03	27.15	31.01	26.89	34.61	34.88	34.07	35.59	30.96	28.31	27.88
Unpaid labor	5.56	6.20	6.79	6.47	6.52	6.61	7.83	7.24	7.87	8.20	4.02	4.46	4.31
Total, economic costs	77.29	73.78	74.71	89.98	102.80	103.03	126.31	123.56	127.38	134.02	110.98	106.25	108.61
Residual returns to management and risk (excl. direct Gov't. payments)	19.03	-7.32	-9.29	-7.91	-10.49	-29.63	-21.08	-12.95	-18.12	-15.01	-22.67	-37.23	-32.74
Harvest-period price (dollars/bu.)	3.98	2.68	2.45	2.89	3.62	3.97	3.69	3.46	3.77	3.54	3.03	2.28	2.41
Yield (bu./planted acre)	24.20	24.80	26.70	28.40	25.50	18.51	28.51	31.68	28.76	33.36	28.49	29.69	30.81

Table 25--All wheat production costs, Northwest, 1975-87

Item	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Dollars per planted acre													
Gross value (excl. direct Gov't. payments):													
Primary crop	185.72	159.75	90.35	124.03	145.20	194.77	212.09	192.05	231.23	187.59	146.65	122.12	152.33
Secondary crop	.00	.00	.00	.00	.00	.00	.00	2.43	2.32	1.97	.94	.89	.82
Total	185.72	159.75	90.35	124.03	145.20	194.77	212.09	194.48	233.55	189.56	147.59	123.01	153.15
Cash expenses:													
Seed	6.55	5.50	5.06	4.25	6.21	7.37	6.72	6.58	6.61	7.08	9.36	8.83	8.29
Fertilizer	22.71	15.42	14.08	13.42	14.16	18.72	23.24	25.81	27.40	25.39	22.61	20.15	19.29
Lime and gypsum	.36	.43	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Chemicals	4.24	5.33	4.80	6.11	6.10	6.48	7.20	9.97	10.38	11.30	10.03	10.07	10.08
Custom operations	1.94	2.03	1.60	2.39	2.67	2.97	3.21	3.80	3.76	3.51	2.69	2.73	2.69
Fuel, lube, and electricity	4.80	4.94	3.85	5.69	8.56	12.24	13.53	14.26	13.91	12.16	14.43	11.94	13.31
Repairs	7.13	6.77	4.91	7.16	8.12	9.54	10.05	11.51	12.37	12.11	10.71	10.80	11.39
Hired labor	.65	.65	.71	.68	.74	.82	.86	1.07	1.18	1.11	3.23	3.43	3.78
Purchased irrigation water	.72	.75	.59	.88	1.58	1.82	1.82	1.70	1.71	1.74	1.91	1.85	1.86
Miscellaneous	.10	.10	.10	.10	.11	.13	.00	.37	.37	.38	.00	.00	.00
Technical services	.00	.00	.00	.00	.00	.00	.00	.16	.16	.16	.35	.34	.34
Total, variable cash expenses	49.20	41.93	35.69	40.68	48.25	60.09	66.63	75.23	77.85	74.94	75.32	70.13	71.03
General farm overhead	7.40	5.96	6.35	12.69	14.12	12.74	14.59	19.44	14.80	14.67	11.02	10.77	13.31
Taxes and insurance	4.52	4.88	5.43	6.21	6.72	11.64	12.50	10.43	11.30	12.93	10.12	10.65	11.20
Interest on operating loans	9.19	8.50	8.13	9.11	11.05	13.27	17.52	19.74	15.09	14.59	8.53	7.85	5.86
Interest on real estate	17.78	17.78	17.75	17.74	17.83	17.93	18.43	13.62	19.00	17.31	16.95	12.72	13.36
Total, fixed cash expenses	38.89	37.12	37.66	45.76	49.71	55.58	63.04	63.23	60.19	59.50	46.62	41.99	43.73
Total, cash expenses	88.09	79.04	73.35	86.44	97.97	115.67	129.67	138.46	138.04	134.44	121.94	112.12	114.76
Gross value less cash expenses (excl. direct Gov't. payments)	97.63	80.71	17.00	37.59	47.23	79.10	82.42	56.02	95.51	55.12	25.65	10.89	38.39
Capital replacement	13.71	17.00	17.37	19.68	23.63	26.46	25.73	25.10	26.65	27.57	26.10	26.45	27.96
Gross value less cash expenses and replacement (excl. direct Gov't. payments)	83.92	63.71	-.37	17.91	23.60	52.64	56.69	30.92	68.86	27.55	-.45	-15.56	10.43
Economic (full ownership) costs:													
Variable cash expenses	49.20	41.93	35.69	40.68	48.25	60.09	66.63	75.23	77.85	74.94	75.32	70.13	71.03
General farm overhead	7.40	5.96	6.35	12.69	14.12	12.74	14.59	19.44	14.80	14.67	11.02	10.77	13.31
Taxes and insurance	4.52	4.88	5.43	6.21	6.72	11.64	12.50	10.43	11.30	12.93	10.12	10.65	11.20
Capital replacement	13.71	17.00	17.37	19.68	23.63	26.46	25.73	25.10	26.65	27.57	26.10	26.45	27.96
Allocated returns to owned inputs:													
Return to operating capital	2.23	1.65	1.69	2.01	2.82	3.93	5.38	4.67	3.79	3.97	3.86	2.57	2.76
Return to other nonland capital	3.92	4.55	4.15	4.39	5.18	5.20	4.68	4.21	4.05	5.10	4.76	4.97	6.08
Net land return	46.24	39.65	21.88	47.32	38.82	40.20	47.79	47.54	59.27	45.96	52.47	43.21	51.03
Unpaid labor	7.52	7.51	8.16	7.88	8.53	9.38	9.90	12.33	13.58	12.78	7.18	7.62	8.41
Total, economic costs	134.73	123.12	100.71	140.87	148.07	169.64	187.20	198.95	211.29	197.92	190.83	176.38	191.78
Residual returns to management and risk (excl. direct Gov't. payments)	50.99	36.63	-10.36	-16.83	-2.87	25.13	24.89	-4.47	22.26	-8.36	-43.24	-53.37	-38.63
Harvest-period price (dollars/bu.)	4.02	3.55	2.78	2.72	3.30	3.68	3.84	3.75	3.75	3.40	3.14	2.41	2.50
Yield (bu./planted acre)	46.20	45.00	32.50	45.60	44.00	52.90	55.22	51.18	61.72	55.21	46.69	50.69	60.82

Table 26--All wheat production costs, Southeast, 1975-87

Item	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Dollars per planted acre													
Gross value (excl. direct Gov't. payments):													
Primary crop	86.89	89.44	70.66	94.48	123.21	124.90	135.87	105.33	105.57	117.61	79.45	67.63	79.56
Secondary crop	16.03	23.12	20.16	18.59	13.52	18.36	3.18	1.52	1.60	1.48	1.83	1.37	1.48
Total	102.92	112.56	90.81	113.06	136.73	143.26	139.05	106.85	107.17	119.09	81.28	69.00	81.04
Cash expenses:													
Seed	9.83	8.56	6.73	6.85	8.65	11.18	11.78	10.16	9.68	11.20	11.75	10.61	10.00
Fertilizer	30.58	22.24	23.72	23.20	24.72	31.08	36.58	33.39	32.33	33.82	32.40	28.79	27.02
Lime and gypsum	2.85	1.70	1.60	2.69	2.73	2.40	2.65	2.31	2.32	2.42	1.22	.99	.93
Chemicals	.44	.28	.26	.88	.95	.94	2.57	2.75	2.87	2.96	1.95	1.83	1.74
Custom operations	1.84	2.53	2.59	2.80	3.02	3.54	6.58	7.22	7.23	7.25	4.23	3.32	2.99
Fuel, lube, and electricity	3.49	4.72	4.80	5.12	7.12	11.00	11.04	10.14	8.99	7.43	7.70	4.55	5.82
Repairs	4.20	5.24	4.96	5.22	5.40	6.42	6.02	6.02	6.27	6.45	6.30	5.98	6.25
Hired labor	.56	.55	.62	.80	.83	.93	.80	.77	.78	.78	2.60	2.59	2.70
Miscellaneous	.46	.45	.45	.47	.47	.79	.21	.86	.86	.87	.00	.00	.00
Technical services	.00	.00	.00	.00	.00	.00	.76	.12	.12	.13	.01	.01	.01
Total, variable cash expenses	54.26	46.28	45.74	48.03	53.89	68.28	78.99	73.73	71.45	73.32	68.15	58.67	57.46
General farm overhead	3.49	4.00	4.27	7.13	6.88	7.42	6.66	4.89	4.98	5.10	3.39	4.01	4.63
Taxes and insurance	4.14	4.29	4.76	5.24	5.70	4.09	3.71	3.82	4.09	4.38	7.32	7.21	7.48
Interest on operating loans	5.22	4.82	4.61	5.17	6.27	7.53	10.33	9.08	5.83	6.74	3.11	3.44	3.11
Interest on real estate	9.72	9.72	9.70	9.70	9.74	9.80	9.13	8.16	7.91	7.76	5.72	4.11	4.22
Total, fixed cash expenses	22.57	22.83	23.34	27.24	28.59	28.84	29.83	25.95	22.81	23.98	19.54	18.77	19.44
Total, cash expenses	76.83	69.11	69.08	75.26	82.48	97.12	108.82	99.68	94.26	97.30	87.69	77.44	76.90
Gross value less cash expenses (excl. direct Gov't. payments)	26.09	43.45	21.74	37.80	54.25	46.14	30.23	7.17	12.91	21.79	-6.41	-8.44	4.14
Capital replacement	9.78	10.45	11.01	14.20	15.07	17.11	16.81	17.53	18.47	18.39	17.60	17.53	18.21
Gross value less cash expenses and replacement (excl. direct Gov't. payments)	16.31	33.00	10.73	23.60	39.18	29.03	13.42	-10.36	-5.56	3.40	-24.01	-25.97	-14.07
Economic (full ownership) costs:													
Variable cash expenses	54.26	46.28	45.74	48.03	53.89	68.28	78.99	73.73	71.45	73.32	68.15	58.67	57.46
General farm overhead	3.49	4.00	4.27	7.13	6.88	7.42	6.66	4.89	4.98	5.10	3.39	4.01	4.63
Taxes and insurance	4.14	4.29	4.76	5.24	5.70	4.09	3.71	3.82	4.09	4.38	7.32	7.21	7.48
Capital replacement	9.78	10.45	11.01	14.20	15.07	17.11	16.81	17.53	18.47	18.39	17.60	17.53	18.21
Allocated returns to owned inputs:													
Return to operating capital	2.20	1.52	1.65	2.05	3.01	4.08	5.93	4.42	3.38	3.94	3.04	1.90	1.99
Return to other nonland capital	2.57	2.57	2.42	2.92	3.04	3.37	2.75	2.67	2.53	3.19	3.10	3.14	3.78
Net land return	17.54	17.17	14.23	21.09	26.65	23.74	24.94	21.66	21.18	22.81	21.13	20.54	19.91
Unpaid labor	6.48	6.38	7.16	9.14	9.52	10.72	9.26	8.80	9.00	9.00	5.77	5.77	6.00
Total, economic costs	100.46	92.66	91.23	109.79	123.76	138.81	149.05	137.52	135.08	140.12	129.51	118.77	119.46
Residual returns to management and risk (excl. direct Gov't. payments)	2.46	19.90	-.42	3.27	12.97	4.45	-10.00	-30.67	-27.91	-21.03	-48.23	-49.77	-38.42
Harvest-period price (dollars/bu.)	3.37	2.71	2.27	3.00	3.83	3.75	3.45	3.09	3.26	3.23	2.97	2.47	2.47
Yield (bu./planted acre)	25.80	33.00	31.10	31.50	32.20	33.33	39.40	34.09	32.38	36.46	26.79	27.33	32.19

Table 27--All wheat production costs, Southern Plains, 1975-87

Item	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Dollars per planted acre													
Gross value (excl. direct Gov't. payments):													
Primary crop	70.92	50.27	51.71	62.85	122.00	87.23	86.35	83.93	102.60	80.04	65.97	39.45	38.17
Secondary crop	5.75	5.71	6.48	5.43	5.41	5.42	9.62	9.51	9.51	9.35	.10	.09	.12
Total	76.66	55.99	58.19	68.29	127.41	92.65	95.97	93.44	112.11	89.39	66.07	39.54	38.29
Cash expenses:													
Seed	4.76	4.64	2.79	3.02	4.20	5.39	5.54	5.30	5.02	4.08	5.40	5.73	5.61
Fertilizer	7.68	9.78	8.19	6.20	8.38	12.45	15.58	15.00	12.20	15.52	13.44	11.87	10.25
Chemicals	.27	1.34	1.22	1.62	1.64	1.75	1.74	1.86	1.94	1.98	5.77	5.88	5.56
Custom operations	2.30	2.18	2.90	2.85	3.64	3.95	7.70	8.07	8.43	7.84	4.29	4.11	3.74
Fuel, lube, and electricity	5.31	4.95	6.55	6.35	9.58	12.88	14.60	14.75	14.30	12.62	14.53	10.71	11.23
Repairs	5.64	4.85	5.97	5.71	6.61	7.38	6.97	7.27	7.92	7.36	6.45	6.15	6.09
Hired labor	.51	.55	.65	.68	.74	.80	.71	.75	.78	.78	2.51	2.49	2.55
Miscellaneous	.06	.06	.06	.06	.06	.07	.00	.01	.01	.01	.00	.00	.00
Technical services	.00	.00	.00	.00	.00	.00	.01	.00	.01	.00	.47	.48	.45
Total, variable cash expenses	26.53	28.33	28.32	26.49	34.85	44.67	52.85	53.01	50.61	50.19	52.85	47.42	45.48
General farm overhead	2.65	2.82	3.01	4.30	4.37	5.95	5.63	4.91	4.80	5.00	3.38	3.58	2.55
Taxes and insurance	4.15	4.22	4.79	4.96	5.56	4.33	3.97	3.85	4.08	4.16	4.85	4.86	4.97
Interest on operating loans	3.53	3.26	3.12	3.49	4.24	5.09	7.93	6.70	6.19	6.23	3.71	3.09	2.17
Interest on real estate	5.22	5.22	5.21	5.21	5.23	5.26	5.70	5.12	5.39	4.61	2.78	2.82	2.14
Total, fixed cash expenses	15.55	15.52	16.12	17.96	19.39	20.63	23.23	20.58	20.46	20.00	14.72	14.35	11.83
Total, cash expenses	42.07	43.85	44.44	44.45	54.24	65.30	76.08	73.59	71.07	70.19	67.57	61.77	57.31
Gross value less cash expenses (excl. direct Gov't. payments)	34.59	12.14	13.75	23.84	73.17	27.35	19.89	19.85	41.04	19.20	-1.50	-22.23	-19.02
Capital replacement	9.60	10.81	11.98	12.38	14.82	16.44	15.61	16.33	17.87	16.14	17.58	16.85	16.62
Gross value less cash expenses and replacement (excl. direct Gov't. payments)	24.99	1.33	1.77	11.46	58.35	10.91	4.28	3.52	23.17	3.06	-19.08	-39.08	-35.64
Economic (full ownership) costs:													
Variable cash expenses	26.53	28.33	28.32	26.49	34.85	44.67	52.85	53.01	50.61	50.19	52.85	47.42	45.48
General farm overhead	2.65	2.82	3.01	4.30	4.37	5.95	5.63	4.91	4.80	5.00	3.38	3.58	2.55
Taxes and insurance	4.15	4.22	4.79	4.96	5.56	4.33	3.97	3.85	4.08	4.16	4.85	4.86	4.97
Capital replacement	9.60	10.81	11.98	12.38	14.82	16.44	15.61	16.33	17.87	16.14	17.58	16.85	16.62
Allocated returns to owned inputs:													
Return to operating capital	.97	.98	.91	1.29	2.19	3.28	3.92	3.14	2.34	2.61	2.50	1.63	1.70
Return to other nonland capital	2.47	2.61	2.58	2.49	2.93	3.18	2.48	2.49	2.49	2.88	3.27	3.14	3.55
Net land return	13.99	9.55	9.79	14.47	28.67	19.65	21.62	20.58	25.28	19.82	22.03	14.45	13.68
Unpaid labor	5.89	6.28	7.42	7.80	8.48	9.20	8.21	8.65	8.93	8.95	5.57	5.54	5.67
Total, economic costs	66.26	65.60	68.80	74.18	101.87	106.70	114.29	112.96	116.40	109.75	112.04	97.47	94.22
Residual returns to management and risk (excl. direct Gov't. payments)	10.41	-9.61	-10.61	-5.90	25.54	-14.05	-18.32	-19.52	-4.29	-20.36	-45.97	-57.93	-55.93
Harvest-period price (dollars/bu.)	3.38	2.72	2.28	3.01	3.84	3.56	3.72	3.45	3.32	3.36	2.94	2.28	2.32
Yield (bu./planted acre)	21.00	18.50	22.70	20.90	31.80	24.51	23.18	24.36	30.92	23.80	22.41	17.30	16.46

Table 28--All wheat production costs, Southwest, 1975-87

Item	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Dollars per planted acre													
Gross value (excl. direct Gov't. payments):													
Primary crop	227.35	172.24	120.44	202.13	281.39	266.81	287.45	249.42	253.36	240.90	266.55	207.00	201.49
Secondary crop	7.77	8.25	6.37	7.37	8.04	9.78	3.94	4.16	4.75	4.53	.91	.73	.66
Total	235.12	180.49	126.81	209.50	289.42	276.59	291.39	253.58	258.11	245.43	267.46	207.73	202.15
Cash expenses:													
Seed	12.37	11.59	8.94	10.32	10.92	14.29	14.52	13.74	13.89	12.31	17.40	16.58	17.23
Fertilizer	32.23	23.93	23.48	19.03	18.92	23.53	45.59	45.28	41.00	43.52	21.40	19.93	18.16
Chemicals	3.51	5.44	4.89	7.00	7.19	7.66	9.16	9.79	10.15	10.37	10.24	10.22	10.18
Custom operations	6.51	6.58	5.96	8.09	8.45	9.28	31.43	31.45	31.42	31.96	21.78	21.63	21.09
Fuel, lube, and electricity	10.56	10.52	9.46	12.67	17.83	23.38	35.52	41.13	40.77	38.63	29.01	25.77	28.07
Repairs	8.03	7.38	6.18	8.16	9.73	11.11	13.05	12.66	13.50	14.56	9.66	9.72	9.99
Hired labor	1.20	1.26	1.54	2.04	2.19	2.39	1.86	1.93	1.92	2.02	8.11	8.40	8.70
Purchased irrigation water	6.27	6.34	5.74	7.80	8.49	9.46	10.96	11.17	11.21	11.40	7.52	7.27	7.32
Miscellaneous	.19	.18	.18	.19	.23	.25	.05	4.44	4.46	4.54	.00	.00	.00
Technical services	.00	.00	.00	.00	.00	.00	4.32	.99	.97	1.00	1.02	1.02	1.00
Total, variable cash expenses	80.87	73.22	66.38	75.30	83.95	101.35	166.46	172.58	169.29	170.31	126.14	120.54	121.74
General farm overhead	11.08	11.77	12.54	15.79	18.54	16.64	18.53	26.63	28.16	28.77	19.81	18.46	17.41
Taxes and insurance	4.23	4.89	5.10	5.96	6.97	19.00	16.71	14.00	15.01	15.46	17.22	17.45	17.67
Interest on operating loans	12.01	11.10	10.62	11.90	14.43	17.33	22.97	26.12	27.50	27.15	14.45	13.96	7.26
Interest on real estate	23.21	23.21	23.17	23.17	23.28	23.41	20.50	16.15	34.77	30.93	31.81	21.67	14.92
Total, fixed cash expenses	50.53	50.97	51.43	56.81	63.22	76.38	78.71	82.90	105.44	102.31	83.29	71.54	57.26
Total, cash expenses	131.40	124.20	117.81	132.12	147.17	177.73	245.17	255.48	274.73	272.62	209.43	192.08	179.00
Gross value less cash expenses (excl. direct Gov't. payments)	103.71	56.30	9.00	77.38	142.26	98.86	46.22	-1.90	-16.62	-27.19	58.03	15.65	23.15
Capital replacement	11.62	16.86	14.20	19.92	25.33	27.24	27.10	29.82	31.42	31.75	24.57	24.61	24.89
Gross value less cash expenses and replacement (excl. direct Gov't. payments)	92.09	39.44	-5.20	57.46	116.93	71.62	19.12	-31.72	-48.04	-58.94	33.46	-8.96	-1.74
Economic (full ownership) costs:													
Variable cash expenses	80.87	73.22	66.38	75.30	83.95	101.35	166.46	172.58	169.29	170.31	126.14	120.54	121.74
General farm overhead	11.08	11.77	12.54	15.79	18.54	16.64	18.53	26.63	28.16	28.77	19.81	18.46	17.41
Taxes and insurance	4.23	4.89	5.10	5.96	6.97	19.00	16.71	14.00	15.01	15.46	17.22	17.45	17.67
Capital replacement	11.62	16.86	14.20	19.92	25.33	27.24	27.10	29.82	31.42	31.75	24.57	24.61	24.89
Allocated returns to owned inputs:													
Return to operating capital	2.19	1.93	2.81	2.88	4.18	5.59	9.90	8.16	6.34	7.16	4.48	3.06	3.37
Return to other nonland capital	3.19	4.33	3.26	4.27	5.33	5.49	4.64	5.05	4.82	5.97	4.98	5.12	5.93
Net land return	51.04	41.87	31.49	59.14	70.46	60.86	60.19	67.16	67.46	67.12	108.97	90.03	92.60
Unpaid labor	13.78	14.52	17.69	23.49	25.14	27.54	21.41	22.14	22.08	23.18	18.05	18.70	19.36
Total, economic costs	178.00	169.38	153.46	206.75	239.91	263.71	324.94	345.54	344.58	349.72	324.22	297.97	302.97
Residual returns to management and risk (excl. direct Gov't. payments)	57.12	11.11	-26.65	2.75	49.51	12.88	-33.55	-91.96	-86.47	-104.29	-56.76	-90.24	-100.82
Harvest-period price (dollars/bu.)	3.70	2.98	2.49	3.29	4.20	3.86	3.97	3.67	3.87	3.47	3.38	2.85	2.77
Yield (bu./planted acre)	61.50	57.90	48.30	61.40	67.00	69.03	72.43	67.95	65.47	69.50	78.74	72.72	72.85

Table 29--Rice production costs, U.S., 1975-87

Item	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Dollars per planted acre													
Gross value (excl. direct Gov't. payments):													
Primary crop	364.59	314.93	400.26	348.08	460.07	462.37	487.67	356.65	400.12	393.22	430.71	218.41	263.89
Total	364.59	314.93	400.26	348.08	460.07	462.37	487.67	356.65	400.12	393.22	430.71	218.41	263.89
Cash expenses:													
Seed	28.00	23.48	19.72	25.69	23.07	28.94	29.95	26.10	25.89	25.51	24.21	25.00	24.22
Fertilizer	44.39	29.62	28.00	27.24	28.49	36.04	38.85	37.78	35.51	35.61	34.06	31.16	25.99
Chemicals	17.72	25.02	22.20	20.84	21.54	22.93	25.08	26.63	28.04	5.51	5.69	6.56	5.14
Custom operations	19.26	21.26	21.70	23.44	26.16	28.88	30.64	31.88	32.60	47.92	47.81	50.40	45.78
Fuel, lube, and electricity	19.94	21.66	21.97	23.40	33.35	43.41	49.83	50.48	46.45	38.72	44.56	30.96	35.96
Repairs	13.62	13.65	12.89	13.54	16.21	18.27	19.59	21.01	22.24	28.23	28.72	28.86	28.77
Hired labor	19.09	21.49	14.48	15.41	17.15	18.52	19.38	20.86	20.79	15.90	26.09	27.03	27.87
Purchased irrigation water	5.48	6.05	6.17	6.67	7.83	7.91	7.66	20.03	20.10	20.45	20.29	19.52	20.45
Drying	21.46	23.31	23.64	25.18	27.56	29.30	35.78	36.30	35.29	32.04	34.67	35.91	34.57
Technical services	.30	.29	.29	.30	.28	.26	1.51	1.48	1.48	5.24	5.31	5.26	5.27
Total, variable cash expenses	189.25	185.84	171.06	181.71	201.64	234.46	258.27	272.55	268.39	255.13	271.41	260.66	254.02
General farm overhead	20.09	20.99	22.35	24.82	27.00	27.95	25.99	23.40	23.08	23.67	26.08	18.21	17.38
Taxes and insurance	5.38	5.63	6.43	6.85	8.13	9.86	9.55	9.96	10.47	12.26	13.21	14.29	14.23
Interest on operating loans	21.53	19.91	19.04	21.34	25.88	31.08	35.13	35.64	26.53	27.16	25.20	14.05	12.97
Interest on real estate	31.21	31.20	31.15	31.15	31.29	31.47	26.44	22.59	22.85	26.86	27.20	15.42	12.67
Total, fixed cash expenses	78.21	77.74	78.98	84.15	92.30	100.36	97.11	91.59	82.93	89.95	91.69	61.97	57.25
Total, cash expenses	267.46	263.58	250.03	265.86	293.94	334.82	355.38	364.14	351.32	345.08	363.10	322.63	311.27
Gross value less cash expenses (excl. direct Gov't. payments)	97.13	51.35	150.23	82.21	166.14	127.55	132.29	-7.49	48.80	48.14	67.61	-104.22	-47.38
Capital replacement	29.04	26.86	28.82	31.05	37.08	40.15	42.94	45.27	47.94	49.71	51.44	51.55	51.39
Gross value less cash expenses and replacement (excl. direct Gov't. payments)	68.09	24.49	121.41	51.16	129.06	87.40	89.35	-52.76	.86	-1.57	16.17	-155.77	-98.77
Economic (full ownership) costs:													
Variable cash expenses	189.25	185.84	171.06	181.71	201.64	234.46	258.27	272.55	268.39	255.13	271.41	260.66	254.02
General farm overhead	20.09	20.99	22.35	24.82	27.00	27.95	25.99	23.40	23.08	23.67	26.08	18.21	17.38
Taxes and insurance	5.38	5.63	6.43	6.85	8.13	9.86	9.55	9.96	10.47	12.26	13.21	14.29	14.23
Capital replacement	29.04	26.86	28.82	31.05	37.08	40.15	42.94	45.27	47.94	49.71	51.44	51.55	51.39
Allocated returns to owned inputs:													
Return to operating capital	4.35	3.69	3.21	4.69	6.42	8.40	11.00	8.89	6.78	7.88	6.18	4.31	4.48
Return to other nonland capital	8.03	6.95	6.66	6.70	7.86	7.76	7.51	7.62	7.31	10.12	10.03	10.50	11.68
Net land return	67.37	58.12	74.36	70.47	96.26	87.84	92.13	53.80	65.00	68.86	75.74	29.16	40.36
Unpaid labor	13.26	14.94	10.06	10.71	11.91	12.87	13.47	14.50	14.44	27.07	18.13	18.79	19.36
Total, economic costs	336.77	323.01	322.94	337.00	396.30	429.29	460.86	435.99	443.42	454.70	472.21	407.47	412.90
Residual returns to management and risk (excl. direct Gov't. payments)	27.82	-8.08	77.32	11.07	63.78	33.08	26.81	-79.34	-43.30	-61.48	-41.50	-189.06	-149.01
Harvest-period price (dollars/cwt.)	8.01	6.73	9.10	7.82	10.07	10.69	10.21	7.61	8.79	8.05	8.01	3.83	4.83
Yield (cwt./planted acre)	45.54	46.79	43.99	44.49	45.70	43.24	47.75	46.86	45.53	48.87	53.78	56.97	54.67

Table 30--Rice production costs, Arkansas (non-Delta), 1975-87

Item	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Dollars per planted acre													
Gross value (excl. direct Gov't. payments):													
Primary crop	376.42	320.74	391.81	346.46	431.31	426.21	450.74	333.63	381.21	379.02	445.69	208.77	263.69
Total	376.42	320.74	391.81	346.46	431.31	426.21	450.74	333.63	381.21	379.02	445.69	208.77	263.69
Cash expenses:													
Seed	26.14	21.00	20.57	27.43	22.23	31.74	31.82	24.95	27.43	26.75	21.78	22.48	21.79
Fertilizer	38.55	26.24	26.48	25.89	26.48	34.51	36.74	36.00	32.08	27.89	27.11	24.09	20.18
Chemicals	18.45	27.17	21.15	19.93	20.33	21.61	23.59	25.40	26.69	1.21	1.21	.95	1.20
Custom operations	15.29	16.65	16.33	17.94	19.18	21.63	22.93	23.79	24.61	36.92	36.51	38.84	35.56
Fuel, lube, and electricity	21.19	22.72	22.14	23.98	33.96	45.45	54.48	52.82	48.61	46.28	54.54	36.35	44.10
Repairs	13.72	13.56	12.31	13.15	15.31	17.42	18.63	19.91	21.14	32.25	33.08	35.85	32.03
Hired labor	22.43	23.57	14.48	15.88	17.32	19.12	19.49	22.19	21.20	16.95	26.85	27.14	27.84
Purchased irrigation water	.64	.70	.68	.75	.96	1.07	1.07	.00	.00	.00	.00	.00	.00
Drying	23.24	24.91	24.28	26.30	28.52	29.99	35.89	34.12	33.78	20.73	23.31	20.99	23.17
Technical services	.00	.00	.00	.00	.00	.00	1.61	1.61	1.61	5.28	5.28	5.17	5.28
Total, variable cash expenses	179.66	176.52	158.43	171.25	184.29	222.54	246.25	240.79	237.15	214.26	229.67	211.86	211.15
General farm overhead	20.92	21.86	23.27	25.09	25.69	25.38	24.04	17.37	17.25	17.78	26.25	16.41	15.77
Taxes and insurance	5.90	5.94	6.24	6.76	7.99	7.74	8.02	8.25	8.84	11.27	12.16	13.50	12.90
Interest on operating loans	22.04	20.38	19.49	21.84	26.49	31.81	32.96	34.49	21.38	22.69	27.45	12.03	13.84
Interest on real estate	32.72	32.71	32.66	32.65	32.80	32.99	24.33	21.59	13.80	22.47	22.42	11.96	11.52
Total, fixed cash expenses	81.57	80.89	81.66	86.34	92.97	97.92	89.35	81.70	61.27	74.21	88.28	53.90	54.03
Total, cash expenses	261.23	257.41	240.09	257.59	277.27	320.46	335.60	322.49	298.42	288.47	317.95	265.76	265.18
Gross value less cash expenses (excl. direct Gov't. payments)	115.18	63.33	151.72	88.87	154.04	105.75	115.14	11.14	82.79	90.55	127.74	-56.99	-1.49
Capital replacement	33.28	30.03	25.94	28.79	34.34	38.12	40.16	41.70	44.32	56.15	57.58	60.83	56.38
Gross value less cash expenses and replacement (excl. direct Gov't. payments)	81.90	33.30	125.78	60.08	119.70	67.63	74.98	-30.56	38.47	34.40	70.16	-117.82	-57.87
Economic (full ownership) costs:													
Variable cash expenses	179.66	176.52	158.43	171.25	184.29	222.54	246.25	240.79	237.15	214.26	229.67	211.86	211.15
General farm overhead	20.92	21.86	23.27	25.09	25.69	25.38	24.04	17.37	17.25	17.78	26.25	16.41	15.77
Taxes and insurance	5.90	5.94	6.24	6.76	7.99	7.74	8.02	8.25	8.84	11.27	12.16	13.50	12.90
Capital replacement	33.28	30.03	25.94	28.79	34.34	38.12	40.16	41.70	44.32	56.15	57.58	60.83	56.38
Allocated returns to owned inputs:													
Return to operating capital	4.00	3.48	2.87	4.32	5.49	7.77	10.16	8.05	6.34	6.86	5.33	3.71	3.79
Return to other nonland capital	9.47	8.00	6.17	6.40	7.50	7.58	7.24	7.30	7.02	10.97	10.72	11.73	12.32
Net land return	79.93	69.46	85.72	82.62	100.88	87.63	90.61	53.92	67.27	78.15	94.90	34.84	47.57
Unpaid labor	15.59	16.38	10.06	11.03	12.04	13.29	13.54	15.42	14.74	28.86	18.66	18.86	19.35
Total, economic costs	348.75	331.67	318.69	336.26	378.21	410.05	440.02	392.80	402.93	424.30	455.27	371.74	379.23
Residual returns to management and risk (excl. direct Gov't. payments)	27.66	-10.93	73.12	10.20	53.09	16.16	10.72	-59.17	-21.72	-45.28	-9.58	-162.97	-115.54
Harvest-period price (dollars/cwt.)	7.96	6.69	9.05	7.78	10.01	10.30	9.95	7.74	8.93	8.19	8.57	3.87	4.92
Yield (cwt./planted acre)	47.30	47.94	43.32	44.55	43.10	41.38	45.30	43.10	42.69	46.28	52.01	53.95	53.60

Table 31--Rice production costs, California, 1975-87

Item	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Dollars per planted acre													
Gross value (excl. direct Gov't. payments):													
Primary crop	443.80	362.69	508.61	392.68	631.12	697.05	671.87	489.34	582.15	534.86	531.88	281.84	316.19
Total	443.80	362.69	508.61	392.68	631.12	697.05	671.87	489.34	582.15	534.86	531.88	281.84	316.19
Cash expenses:													
Seed	24.55	24.55	20.07	31.01	28.23	25.79	30.68	31.33	24.15	26.56	26.56	26.56	26.56
Fertilizer	44.57	34.47	33.29	32.97	32.94	41.48	43.66	45.35	43.52	37.38	34.70	32.93	29.93
Chemicals	10.23	15.43	20.24	18.98	19.36	20.60	22.41	24.03	25.24	6.00	6.00	6.00	6.00
Custom operations	32.89	34.35	38.67	37.09	43.27	48.54	52.90	55.08	57.75	58.34	57.77	57.80	56.04
Fuel, lube, and electricity	12.45	12.80	14.32	13.54	18.67	25.76	29.88	30.54	28.50	26.82	32.28	22.76	25.56
Repairs	16.41	15.56	16.21	15.12	17.41	20.16	22.00	23.69	25.15	34.65	34.53	35.36	34.43
Hired labor	20.37	20.37	14.42	15.36	16.60	18.24	18.50	19.55	19.41	19.39	32.65	34.07	35.02
Purchased irrigation water	13.38	13.97	15.73	15.09	16.65	18.37	19.81	24.32	24.41	24.83	24.63	23.70	24.83
Drying	22.04	22.65	25.35	23.97	30.23	37.62	45.43	49.72	51.26	46.04	47.33	47.51	47.51
Technical services	.00	.00	.00	.00	.00	.00	1.42	1.42	1.42	8.28	8.28	8.28	8.28
Total, variable cash expenses	198.81	194.15	198.30	203.13	223.36	256.56	286.69	305.03	300.80	288.29	304.73	294.97	294.16
General farm overhead	30.20	31.56	33.59	36.21	42.94	41.00	38.03	53.59	54.13	55.16	39.09	25.53	26.97
Taxes and insurance	5.83	6.20	6.55	6.97	8.09	18.85	18.96	16.44	18.68	22.28	22.78	23.86	24.08
Interest on operating loans	29.59	27.37	26.17	29.33	35.57	42.71	47.57	52.01	52.12	51.28	26.86	20.15	10.53
Interest on real estate	57.20	57.19	57.10	57.09	57.35	57.68	40.30	30.96	66.00	57.71	65.26	29.71	18.75
Total, fixed cash expenses	122.82	122.31	123.41	129.59	143.95	160.24	144.86	153.00	190.93	186.43	153.99	99.25	80.33
Total, cash expenses	321.63	316.46	321.71	332.73	367.31	416.80	431.55	458.03	491.73	474.72	458.72	394.22	374.49
Gross value less cash expenses (excl. direct Gov't. payments)	122.17	46.23	186.90	59.95	263.81	280.25	240.32	31.31	90.42	60.14	73.16	-112.38	-58.30
Capital replacement	26.27	30.35	27.94	30.38	35.90	39.27	43.49	46.87	49.75	62.22	64.34	65.57	64.28
Gross value less cash expenses and replacement (excl. direct Gov't. payments)	95.90	15.88	158.96	29.57	227.91	240.98	196.83	-15.56	40.67	-2.08	8.82	-177.95	-122.58
Economic (full ownership) costs:													
Variable cash expenses	198.81	194.15	198.30	203.13	223.36	256.56	286.69	305.03	300.80	288.29	304.73	294.97	294.16
General farm overhead	30.20	31.56	33.59	36.21	42.94	41.00	38.03	53.59	54.13	55.16	39.09	25.53	26.97
Taxes and insurance	5.83	6.20	6.55	6.97	8.09	18.85	18.96	16.44	18.68	22.28	22.78	23.86	24.08
Capital replacement	26.27	30.35	27.94	30.38	35.90	39.27	43.49	46.87	49.75	62.22	64.34	65.57	64.28
Allocated returns to owned inputs:													
Return to operating capital	4.19	3.62	3.17	4.98	6.84	8.51	11.23	9.44	7.27	10.05	7.93	5.49	5.92
Return to other nonland capital	7.02	7.59	6.23	6.33	7.35	7.34	7.35	7.56	7.26	12.22	11.97	12.61	14.09
Net land return	99.50	80.85	114.05	83.92	158.83	159.63	150.95	101.71	125.29	111.15	108.62	49.70	59.13
Unpaid labor	14.10	14.15	10.02	10.68	11.54	12.68	12.85	13.58	13.48	33.02	22.68	23.68	24.34
Total, economic costs	385.91	368.47	399.86	382.60	494.85	543.84	569.54	554.22	576.67	594.39	582.14	501.41	512.97
Residual returns to management and risk (excl. direct Gov't. payments)	57.88	-5.78	108.76	10.07	136.27	153.21	102.33	-64.88	5.48	-59.53	-50.26	-219.57	-196.78
Harvest-period price (dollars/cwt.)	7.74	6.51	8.80	7.57	9.74	10.90	9.85	7.21	8.32	7.63	7.38	3.69	4.49
Yield (cwt./planted acre)	57.30	55.70	57.78	51.88	64.80	63.95	68.21	67.87	69.97	70.10	72.07	76.38	70.42

Table 32--Rice production costs, Delta, 1975-87

Item	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Dollars per planted acre													
Gross value (excl. direct Gov't. payments):													
Primary crop	312.62	294.55	375.75	331.68	413.22	372.28	441.71	307.97	353.60	344.73	396.26	202.77	239.94
Total	312.62	294.55	375.75	331.68	413.22	372.28	441.71	307.97	353.60	344.73	396.26	202.77	239.94
Cash expenses:													
Seed	32.40	24.30	20.08	26.41	21.41	30.58	30.58	23.91	26.27	23.48	23.48	23.48	23.48
Fertilizer	32.40	24.00	29.56	20.72	22.36	26.96	30.75	28.57	29.87	39.61	37.62	33.08	27.65
Chemicals	19.05	27.75	22.05	24.92	25.42	27.04	29.44	31.55	33.14	12.87	12.87	12.87	12.87
Custom operations	16.36	19.69	20.17	22.12	23.62	26.42	28.34	29.46	30.49	49.32	50.40	50.47	49.01
Fuel, lube, and electricity	20.35	24.12	24.55	26.54	36.47	43.54	52.07	52.77	47.20	43.98	48.54	38.42	41.88
Repairs	10.34	11.31	10.72	11.43	13.27	15.16	16.29	17.53	18.66	22.03	22.87	23.17	22.40
Hired labor	16.81	21.28	15.22	13.82	15.62	16.33	17.05	16.92	17.82	12.64	20.42	21.79	21.09
Drying	19.85	23.53	23.95	25.89	28.63	26.73	32.08	30.38	30.24	26.18	30.58	30.77	30.48
Technical services	.00	.00	.00	.00	.00	.00	1.44	1.44	1.44	5.54	5.54	5.54	5.54
Total, variable cash expenses	167.56	175.98	166.29	171.85	186.80	212.76	238.04	232.53	235.13	235.65	252.32	239.59	234.40
General farm overhead	15.10	15.78	16.80	20.05	20.53	22.07	22.23	15.99	16.41	16.37	23.34	15.94	14.35
Taxes and insurance	5.64	5.64	6.63	6.52	7.66	6.88	6.88	8.82	8.03	10.33	11.35	12.18	12.09
Interest on operating loans	22.74	21.03	20.11	22.54	27.33	32.82	30.47	31.75	20.34	20.89	24.41	11.68	12.60
Interest on real estate	19.53	19.52	19.49	19.49	19.58	19.69	22.50	19.88	13.13	20.69	19.93	11.62	10.49
Total, fixed cash expenses	63.01	61.98	63.03	68.59	75.10	81.46	82.08	76.44	57.91	68.28	79.03	51.42	49.53
Total, cash expenses	230.57	237.96	229.33	240.44	261.89	294.22	320.12	308.97	293.04	303.93	331.35	291.01	283.93
Gross value less cash expenses (excl. direct Gov't. payments)	82.05	56.60	146.42	91.24	151.33	78.06	121.59	-1.00	60.56	40.80	64.91	-88.24	-43.99
Capital replacement	30.77	28.04	32.86	26.55	31.70	35.36	37.45	38.96	41.43	45.11	46.38	46.83	45.78
Gross value less cash expenses and replacement (excl. direct Gov't. payments)	51.28	28.56	113.56	64.69	119.63	42.70	84.14	-39.96	19.13	-4.31	18.53	-135.07	-89.77
Economic (full ownership) costs:													
Variable cash expenses	167.56	175.98	166.29	171.85	186.80	212.76	238.04	232.53	235.13	235.65	252.32	239.59	234.40
General farm overhead	15.10	15.78	16.80	20.05	20.53	22.07	22.23	15.99	16.41	16.37	23.34	15.94	14.35
Taxes and insurance	5.64	5.64	6.63	6.52	7.66	6.88	6.88	8.82	8.03	10.33	11.35	12.18	12.09
Capital replacement	30.77	28.04	32.86	26.55	31.70	35.36	37.45	38.96	41.43	45.11	46.38	46.83	45.78
Allocated returns to owned inputs:													
Return to operating capital	3.74	3.46	3.62	4.27	5.66	7.43	9.91	7.76	5.42	6.80	5.34	3.60	3.80
Return to other nonland capital	8.73	7.44	7.79	5.88	6.90	7.00	6.73	6.81	6.56	10.03	9.96	10.39	11.48
Net land return	51.67	50.60	64.82	62.63	79.59	63.50	77.69	38.33	48.93	47.91	50.89	20.91	23.49
Unpaid labor	11.68	14.79	10.58	9.61	10.85	11.35	11.85	11.75	12.38	21.53	14.19	15.14	14.65
Total, economic costs	294.90	301.73	309.40	307.36	349.68	366.35	410.78	360.95	374.29	393.73	413.77	364.58	360.04
Residual returns to management and risk (excl. direct Gov't. payments)	17.72	-7.18	66.35	24.32	63.54	5.93	30.93	-52.98	-20.69	-49.00	-17.51	-161.81	-120.10
Harvest-period price (dollars/cwt.)	7.99	6.72	9.09	7.81	10.05	10.13	10.43	7.68	8.86	8.03	7.90	3.91	4.98
Yield (cwt./planted acre)	39.10	43.82	41.35	42.45	41.10	36.75	42.35	40.10	39.91	42.93	50.16	51.86	48.18

Table 33--Rice production costs, Gulf Coast, 1975-87

Item	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Dollars per planted acre													
Gross value (excl. direct Gov't. payments):													
Primary crop	344.24	302.69	375.81	340.36	419.34	431.64	466.07	345.07	363.62	371.69	384.13	203.13	247.68
Total	344.24	302.69	375.81	340.36	419.34	431.64	466.07	345.07	363.62	371.69	384.13	203.13	247.68
Cash expenses:													
Seed	29.00	24.35	16.68	21.46	21.99	26.98	27.01	26.11	24.74	25.14	26.35	27.17	26.37
Fertilizer	51.41	32.06	22.53	29.03	31.22	40.37	45.27	42.61	39.59	40.05	38.74	32.99	29.90
Chemicals	20.19	26.50	26.56	20.37	21.33	22.70	24.49	25.57	27.07	4.45	4.52	4.64	4.74
Custom operations	17.74	19.94	19.87	22.36	24.01	26.91	28.84	29.47	30.33	53.31	53.02	53.71	50.50
Fuel, lube, and electricity	21.65	23.95	23.73	26.32	38.62	50.54	53.75	57.31	52.70	32.84	36.49	25.12	28.21
Repairs	13.88	14.16	13.06	14.29	17.96	20.03	22.05	23.39	24.77	25.20	25.29	25.89	25.23
Hired labor	17.42	20.67	12.49	15.85	18.19	19.51	21.69	23.25	23.32	15.38	26.31	27.88	27.87
Purchased irrigation water	8.76	9.84	9.81	11.04	12.90	13.74	14.56	53.96	54.15	55.09	54.65	52.58	55.09
Drying	20.13	22.27	22.06	24.47	24.87	26.03	33.54	35.73	32.67	41.31	44.24	43.89	43.78
Technical services	.81	.79	.79	.82	.78	.80	1.50	1.42	1.39	3.40	3.40	3.32	3.25
Total, variable cash expenses	200.99	194.52	167.58	186.01	211.87	247.61	272.70	318.81	310.74	296.17	313.01	297.19	294.94
General farm overhead	20.68	21.61	23.00	22.50	22.85	27.30	24.70	18.78	18.85	19.26	20.68	17.34	15.55
Taxes and insurance	4.78	5.18	6.14	7.04	8.52	9.04	8.34	9.06	9.98	9.63	10.49	11.32	11.32
Interest on operating loans	16.17	14.95	14.30	16.03	19.44	23.34	34.62	30.77	23.94	24.24	22.26	14.13	13.58
Interest on real estate	23.92	23.91	23.88	23.87	23.98	24.12	24.51	21.11	18.36	20.33	16.96	13.08	11.83
Total, fixed cash expenses	65.55	65.66	67.32	69.43	74.79	83.80	92.17	79.72	71.13	73.46	70.39	55.87	52.28
Total, cash expenses	266.53	260.18	234.90	255.44	286.66	331.41	364.87	398.53	381.87	369.63	383.40	353.06	347.22
Gross value less cash expenses (excl. direct Gov't. payments)	77.70	42.51	140.91	84.92	132.68	100.23	101.20	-53.46	-18.25	2.06	.73	-149.93	-99.54
Capital replacement	27.13	22.86	24.27	35.57	42.82	45.47	50.21	53.10	56.13	39.80	41.09	41.89	40.82
Gross value less cash expenses and replacement (excl. direct Gov't. payments)	50.57	19.65	116.64	49.35	89.86	54.76	50.99	-106.56	-74.38	-37.74	-40.36	-191.82	-140.36
Economic (full ownership) costs:													
Variable cash expenses	200.99	194.52	167.58	186.01	211.87	247.61	272.70	318.81	310.74	296.17	313.01	297.19	294.94
General farm overhead	20.68	21.61	23.00	22.50	22.85	27.30	24.70	18.78	18.85	19.26	20.68	17.34	15.55
Taxes and insurance	4.78	5.18	6.14	7.04	8.52	9.04	8.34	9.06	9.98	9.63	10.49	11.32	11.32
Capital replacement	27.13	22.86	24.27	35.57	42.82	45.47	50.21	53.10	56.13	39.80	41.09	41.89	40.82
Allocated returns to owned inputs:													
Return to operating capital	4.86	3.95	2.80	5.07	7.32	9.53	12.68	10.37	8.10	8.67	6.90	4.71	4.92
Return to other nonland capital	7.32	5.77	5.47	7.49	8.86	8.63	8.55	8.64	8.27	8.22	8.13	8.59	9.54
Net land return	53.43	46.49	58.16	60.90	78.38	66.59	74.02	39.01	43.73	52.70	55.72	21.44	30.54
Unpaid labor	12.10	14.36	8.68	11.01	12.64	13.55	15.08	16.15	16.21	26.18	18.29	19.37	19.36
Total, economic costs	331.28	314.74	296.10	335.58	393.26	427.71	466.28	473.93	472.00	460.63	474.31	421.85	426.99
Residual returns to management and risk (excl. direct Gov't. payments)	12.96	-12.05	79.71	4.79	26.08	3.93	-.21	-128.86	-108.38	-88.94	-90.18	-218.72	-179.31
Harvest-period price (dollars/cwt.)	8.27	6.96	9.40	8.09	10.41	11.24	10.64	7.77	8.98	8.23	7.94	3.86	4.89
Yield (cwt./planted acre)	41.60	43.51	39.96	42.09	40.30	38.40	43.82	44.40	40.48	45.15	48.36	52.65	50.63

Table 34--Soybean production costs, U.S., 1975-87

Item	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Dollars per planted acre													
Gross value (excl. direct Gov't. payments):													
Primary crop	139.93	172.46	178.46	195.43	201.32	199.71	179.48	160.64	204.46	166.72	165.96	150.64	172.81
Total	139.93	172.46	178.46	195.43	201.32	199.71	179.48	160.64	204.46	166.72	165.96	150.64	172.81
Cash expenses:													
Seed	8.32	6.26	9.48	8.88	9.19	7.87	10.70	8.52	7.98	10.97	12.92	10.82	12.03
Fertilizer	4.95	4.41	5.36	5.70	6.49	8.14	8.47	8.27	7.58	7.70	5.80	5.01	4.99
Lime and gypsum	.71	.80	.83	.94	1.00	1.22	1.31	1.19	1.16	1.19	.38	.34	.29
Chemicals	10.19	10.30	9.34	12.51	12.78	13.64	14.86	18.33	19.18	19.56	12.41	12.37	12.34
Custom operations	1.88	1.80	2.34	2.42	2.59	2.85	3.48	3.83	3.84	3.87	4.01	4.01	3.86
Fuel, lube, and electricity	4.61	4.34	5.61	5.71	8.89	12.23	12.93	11.81	10.35	8.42	11.62	7.37	9.06
Repairs	5.75	5.00	6.02	6.04	6.77	7.37	7.51	6.46	6.63	6.45	7.04	6.79	6.86
Hired labor	1.82	1.98	2.25	2.61	2.87	3.06	2.99	2.39	2.37	1.47	2.45	2.53	2.62
Miscellaneous	.00	.00	.00	.00	.00	.00	.09	.40	.34	.36	.00	.00	.00
Technical services	.00	.00	.00	.00	.00	.00	.18	.18	.18	.16	.05	.05	.05
Total, variable cash expenses	38.23	34.88	41.23	44.81	50.58	56.38	62.52	61.38	59.61	60.15	56.68	49.29	52.10
General farm overhead	6.41	6.74	7.17	8.47	9.43	10.30	9.56	8.79	10.43	10.81	6.85	7.87	10.87
Taxes and insurance	4.45	4.72	5.35	5.55	6.24	10.43	10.45	10.57	11.18	11.94	12.85	13.23	13.71
Interest on operating loans	6.76	6.25	5.98	6.70	8.13	9.76	12.44	11.96	13.49	15.13	7.94	6.79	6.51
Interest on real estate	12.88	12.88	12.86	12.86	12.92	12.99	13.97	15.19	19.08	18.69	12.38	11.37	12.63
Total, fixed cash expenses	30.50	30.60	31.36	33.57	36.72	43.48	46.42	46.51	54.18	56.57	40.02	39.26	43.72
Total, cash expenses	68.73	65.48	72.58	78.39	87.30	99.86	108.94	107.89	113.79	116.72	96.70	88.55	95.82
Gross value less cash expenses (excl. direct Gov't. payments)	71.19	106.98	105.87	117.05	114.03	99.85	70.54	52.75	90.67	50.00	69.26	62.09	76.99
Capital replacement	13.42	15.18	16.28	16.43	18.62	19.37	20.59	23.16	24.50	24.17	29.60	29.46	29.74
Gross value less cash expenses and replacement (excl. direct Gov't. payments)	57.77	91.80	89.59	100.62	95.41	80.48	49.95	29.59	66.17	25.83	39.66	32.63	47.25
Economic (full ownership) costs:													
Variable cash expenses	38.23	34.88	41.23	44.81	50.58	56.38	62.52	61.38	59.61	60.15	56.68	49.29	52.10
General farm overhead	6.41	6.74	7.17	8.47	9.43	10.30	9.56	8.79	10.43	10.81	6.85	7.87	10.87
Taxes and insurance	4.45	4.72	5.35	5.55	6.24	10.43	10.45	10.57	11.18	11.94	12.85	13.23	13.71
Capital replacement	13.42	15.18	16.28	16.43	18.62	19.37	20.59	23.16	24.50	24.17	29.60	29.46	29.74
Allocated returns to owned inputs:													
Return to operating capital	1.05	.89	1.05	1.66	2.35	3.00	3.87	2.88	2.21	2.54	1.72	1.09	1.23
Return to other nonland capital	3.83	4.06	3.89	3.66	4.08	3.91	3.70	3.70	3.50	4.32	4.99	5.08	5.90
Net land return	44.57	54.04	57.12	63.37	64.17	64.98	56.86	52.54	63.46	52.71	48.16	43.64	45.78
Unpaid labor	6.84	7.43	8.47	9.83	10.80	11.52	11.24	9.01	8.92	9.84	9.22	9.53	9.86
Total, economic costs	118.80	127.95	140.55	153.78	166.27	179.89	178.79	172.02	183.81	176.48	170.07	159.20	169.19
Residual returns to management and risk (excl. direct Gov't. payments)	21.12	44.51	37.90	41.66	35.05	19.82	.69	-11.38	20.65	-9.76	-4.11	-8.56	3.62
Harvest-period price (dollars/bu.)	4.94	6.84	5.91	6.69	6.31	7.72	6.05	5.13	7.95	6.05	4.86	4.57	5.06
Yield (bu./planted acre)	28.30	25.20	30.20	29.20	31.90	25.86	29.68	31.32	25.72	27.54	34.17	32.94	34.15

Table 35--Soybean production costs, Delta, 1975-87

Item	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Dollars per planted acre													
Gross value (excl. direct Gov't. payments):													
Primary crop	116.48	146.38	135.55	160.45	181.94	129.08	129.83	132.54	158.68	154.29	121.93	88.26	113.53
Total	116.48	146.38	135.55	160.45	181.94	129.08	129.83	132.54	158.68	154.29	121.93	88.26	113.53
Cash expenses:													
Seed	9.88	6.09	10.82	10.00	10.36	7.87	12.94	8.08	7.67	10.78	11.37	9.31	10.96
Fertilizer	5.08	4.53	5.31	5.39	5.59	7.38	9.33	9.31	4.92	5.83	6.84	6.06	6.04
Lime and gypsum	.59	.68	.69	.59	.65	.79	.37	.40	.41	.42	.00	.00	.00
Chemicals	11.82	12.66	11.42	15.14	15.58	16.74	18.57	19.75	20.82	21.03	8.54	8.53	8.51
Custom operations	1.40	1.37	1.59	1.78	1.91	2.16	4.69	4.76	4.89	5.05	2.28	2.30	2.29
Fuel, lube, and electricity	5.91	5.67	6.56	7.22	11.63	15.61	13.51	12.85	11.01	8.82	12.58	7.40	9.62
Repairs	7.13	6.31	6.80	7.38	8.35	9.05	6.35	6.84	7.20	6.93	7.47	6.95	7.25
Hired labor	2.06	2.23	2.62	2.93	3.22	3.37	2.31	2.54	2.55	1.56	2.45	2.49	2.54
Miscellaneous	.00	.00	.00	.00	.00	.00	.43	1.00	.86	.90	.00	.00	.00
Technical services	.00	.00	.00	.00	.00	.00	.86	.44	.44	.44	.05	.05	.05
Total, variable cash expenses	43.87	39.55	45.81	50.43	57.29	62.97	69.36	65.98	60.77	61.76	51.58	43.09	47.26
General farm overhead	4.58	4.86	5.18	7.08	7.13	6.21	7.60	6.93	7.10	7.23	7.18	6.94	6.79
Taxes and insurance	4.63	4.85	5.59	5.61	6.33	5.00	4.34	4.33	4.69	5.10	7.67	7.70	8.06
Interest on operating loans	5.40	4.99	4.77	5.35	6.49	7.79	10.42	13.77	8.80	9.22	7.51	5.08	5.96
Interest on real estate	8.01	8.01	8.00	8.00	8.03	8.08	7.70	8.62	5.68	9.14	6.13	5.06	4.96
Total, fixed cash expenses	22.62	22.71	23.54	26.04	27.98	27.08	30.06	33.65	26.27	30.69	28.49	24.78	25.77
Total, cash expenses	66.49	62.26	69.35	76.47	85.28	90.05	99.42	99.63	87.04	92.45	80.07	67.87	73.03
Gross value less cash expenses (excl. direct Gov't. payments)	50.00	84.12	66.20	83.98	96.66	39.03	30.41	32.91	71.64	61.84	41.86	20.39	40.50
Capital replacement	16.16	17.38	19.34	17.94	20.36	21.22	20.13	21.32	22.56	22.72	27.80	26.67	27.34
Gross value less cash expenses and replacement (excl. direct Gov't. payments)	33.84	66.74	46.86	66.04	76.30	17.81	10.28	11.59	49.08	39.12	14.06	-6.28	13.16
Economic (full ownership) costs:													
Variable cash expenses	43.87	39.55	45.81	50.43	57.29	62.97	69.36	65.98	60.77	61.76	51.58	43.09	47.26
General farm overhead	4.58	4.86	5.18	7.08	7.13	6.21	7.60	6.93	7.10	7.23	7.18	6.94	6.79
Taxes and insurance	4.63	4.85	5.59	5.61	6.33	5.00	4.34	4.33	4.69	5.10	7.67	7.70	8.06
Capital replacement	16.16	17.38	19.34	17.94	20.36	21.22	20.13	21.32	22.56	22.72	27.80	26.67	27.34
Allocated returns to owned inputs:													
Return to operating capital	1.28	1.09	1.34	2.06	2.88	3.60	4.38	3.42	2.39	2.88	1.74	1.08	1.26
Return to other nonland capital	4.16	4.19	4.16	3.61	4.02	4.06	3.21	3.26	3.11	3.85	4.87	4.70	5.60
Net land return	22.90	27.14	26.14	31.74	35.03	31.25	29.76	30.22	33.19	33.43	26.03	20.05	23.09
Unpaid labor	7.75	8.41	9.85	11.01	12.13	12.67	8.69	9.57	9.58	10.40	9.20	9.38	9.55
Total, economic costs	105.34	107.46	117.41	129.48	145.18	146.98	147.47	145.03	143.39	147.37	136.07	119.61	128.95
Residual returns to management and risk (excl. direct Gov't. payments)	11.15	38.92	18.14	30.96	36.76	-17.90	-17.64	-12.49	15.29	6.92	-14.14	-31.35	-15.42
Harvest-period price (dollars/bu.)	5.11	7.07	6.11	6.92	6.52	8.16	6.23	5.43	7.86	6.20	4.98	4.88	5.43
Yield (bu./planted acre)	22.80	20.70	22.20	23.20	27.90	15.82	20.84	24.40	20.20	24.88	24.47	18.10	20.91

Table 36--Soybean production costs, North Central, 1975-87

Item	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Dollars per planted acre													
Gross value (excl. direct Gov't. payments):													
Primary crop	154.91	193.19	208.51	224.20	221.44	252.99	207.79	179.05	239.93	183.28	183.50	170.43	190.06
Total	154.91	193.19	208.51	224.20	221.44	252.99	207.79	179.05	239.93	183.28	183.50	170.43	190.06
Cash expenses:													
Seed	8.09	6.41	8.88	8.38	8.95	8.09	10.26	9.25	8.54	11.60	13.82	11.27	12.48
Fertilizer	3.41	3.06	3.29	3.39	4.68	5.76	6.06	5.46	6.20	6.90	4.34	3.90	4.00
Lime and gypsum	.47	.51	.55	.66	.70	.82	.91	.62	.65	.67	.14	.14	.14
Chemicals	8.68	9.26	8.34	11.28	11.51	12.24	13.30	17.67	18.57	19.05	12.90	12.90	12.90
Custom operations	1.55	1.51	2.04	2.07	2.21	2.49	2.65	2.98	3.05	3.05	4.06	4.11	3.96
Fuel, lube, and electricity	3.94	3.75	5.06	5.06	7.91	10.80	12.56	11.41	10.04	8.15	11.35	7.42	8.96
Repairs	5.22	4.59	5.76	5.68	6.42	7.04	8.05	5.97	6.11	5.96	6.53	6.52	6.52
Hired labor	1.64	1.81	2.03	2.49	2.73	2.96	3.28	2.31	2.26	1.41	2.38	2.50	2.59
Miscellaneous	.00	.00	.00	.00	.00	.00	.00	.31	.27	.28	.00	.00	.00
Technical services	.00	.00	.00	.00	.00	.00	.00	.11	.11	.11	.05	.05	.05
Total, variable cash expenses	33.01	30.90	35.95	39.01	45.11	50.20	57.07	56.09	55.80	57.18	55.57	48.81	51.59
General farm overhead	7.38	7.76	8.27	8.93	10.83	12.72	11.00	10.21	12.57	12.89	7.21	8.59	12.15
Taxes and insurance	4.37	4.69	5.26	5.60	6.34	14.09	14.21	14.32	14.81	15.60	15.19	15.40	15.74
Interest on operating loans	7.75	7.16	6.85	7.68	9.31	11.18	13.16	11.95	16.42	18.18	8.88	7.46	6.95
Interest on real estate	16.00	15.99	15.97	15.96	16.04	16.13	17.24	17.89	24.80	24.05	14.21	13.50	14.80
Total, fixed cash expenses	35.49	35.61	36.34	38.16	42.52	54.12	55.61	54.37	68.60	70.72	45.49	44.95	49.64
Total, cash expenses	68.50	66.51	72.29	77.17	87.63	104.32	112.68	110.46	124.40	127.90	101.06	93.76	101.23
Gross value less cash expenses (excl. direct Gov't. payments)	86.41	126.69	136.22	147.03	133.81	148.67	95.11	68.59	115.53	55.38	82.44	76.67	88.83
Capital replacement	12.62	14.67	15.32	16.43	18.83	19.53	21.74	25.49	26.81	26.33	31.01	31.05	30.98
Gross value less cash expenses and replacement (excl. direct Gov't. payments)	73.79	112.02	120.90	130.60	114.98	129.14	73.37	43.10	88.72	29.05	51.43	45.62	57.85
Economic (full ownership) costs:													
Variable cash expenses	33.01	30.90	35.95	39.01	45.11	50.20	57.07	56.09	55.80	57.18	55.57	48.81	51.59
General farm overhead	7.38	7.76	8.27	8.93	10.83	12.72	11.00	10.21	12.57	12.89	7.21	8.59	12.15
Taxes and insurance	4.37	4.69	5.26	5.60	6.34	14.09	14.21	14.32	14.81	15.60	15.19	15.40	15.74
Capital replacement	12.62	14.67	15.32	16.43	18.83	19.53	21.74	25.49	26.81	26.33	31.01	31.05	30.98
Allocated returns to owned inputs:													
Return to operating capital	.91	.78	.87	1.39	2.00	2.54	3.48	2.47	1.97	2.29	1.63	1.03	1.17
Return to other nonland capital	3.74	4.07	3.79	3.80	4.28	4.03	4.08	4.09	3.85	4.72	5.18	5.33	6.10
Net land return	57.07	70.61	77.36	87.55	87.33	90.92	75.50	68.07	83.77	67.04	57.62	51.82	53.10
Unpaid labor	6.19	6.83	7.62	9.35	10.29	11.13	12.34	8.69	8.48	9.44	8.96	9.41	9.73
Total, economic costs	125.28	140.30	154.44	172.05	185.01	205.16	199.42	189.43	208.06	195.49	182.37	171.44	180.56
Residual returns to management and risk (excl. direct Gov't. payments)	29.63	52.89	54.08	52.14	36.43	47.83	8.37	-10.38	31.87	-12.21	1.13	-1.01	9.50
Harvest-period price (dollars/bu.)	4.91	6.80	5.87	6.65	6.27	7.62	6.04	5.05	7.99	6.04	4.83	4.52	4.99
Yield (bu./planted acre)	31.52	28.40	35.50	33.70	35.30	33.19	34.43	35.44	30.01	30.33	38.01	37.74	38.08

Table 37--Soybean production costs, Southeast, 1975-87

Item	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Dollars per planted acre													
Gross value (excl. direct Gov't. payments):													
Primary crop	116.57	149.53	129.71	151.68	166.75	121.52	139.61	136.20	137.72	141.46	126.71	107.55	133.74
Total	116.57	149.53	129.71	151.68	166.75	121.52	139.61	136.20	137.72	141.46	126.71	107.55	133.74
Cash expenses:													
Seed	7.81	6.11	10.24	9.64	9.00	7.44	10.43	7.54	7.25	9.96	10.11	9.90	10.28
Fertilizer	11.10	9.91	13.22	14.38	14.35	17.23	17.03	17.88	16.31	14.73	12.20	10.70	10.62
Lime and gypsum	1.78	2.08	2.04	2.24	2.39	2.91	3.56	3.92	3.94	4.24	2.06	1.96	1.83
Chemicals	14.55	12.44	11.44	15.45	15.83	16.95	18.75	21.00	22.11	22.86	14.40	14.04	13.86
Custom operations	3.66	3.64	3.97	4.38	4.71	4.92	5.46	5.67	5.65	5.82	5.79	5.65	5.52
Fuel, lube, and electricity	5.65	5.53	6.00	6.52	9.59	13.48	13.23	12.60	10.96	8.98	11.87	6.96	8.95
Repairs	6.30	5.69	5.74	6.16	6.64	7.12	6.97	7.38	7.47	7.34	9.15	8.27	8.74
Hired labor	2.26	2.31	2.68	2.75	3.00	3.16	2.69	2.57	2.62	1.59	2.81	2.79	3.01
Miscellaneous	.00	.00	.00	.00	.00	.00	.07	.24	.21	.22	.00	.00	.00
Technical services	.00	.00	.00	.00	.00	.00	.17	.25	.24	.24	.00	.00	.00
Total, variable cash expenses	53.10	47.72	55.33	61.52	65.51	73.21	78.36	79.05	76.76	75.98	68.39	60.27	62.81
General farm overhead	4.20	4.46	4.75	7.02	6.76	7.43	6.41	6.14	6.05	6.23	4.54	4.58	7.51
Taxes and insurance	4.55	4.73	5.43	5.44	6.02	5.34	4.91	4.89	5.10	5.40	6.74	6.82	7.15
Interest on operating loans	5.23	4.84	4.63	5.18	6.29	7.55	10.50	10.54	6.81	8.48	3.53	4.80	4.07
Interest on real estate	9.74	9.74	9.72	9.72	9.76	9.82	10.31	12.72	13.64	10.90	10.22	6.24	8.02
Total, fixed cash expenses	23.72	23.76	24.53	27.36	28.83	30.14	32.13	34.29	31.60	31.01	25.03	22.44	26.75
Total, cash expenses	76.82	71.49	79.86	88.88	94.34	103.35	110.49	113.34	108.36	106.99	93.42	82.71	89.56
Gross value less cash expenses (excl. direct Gov't. payments)	39.75	78.04	49.85	62.79	72.41	18.17	29.12	22.86	29.36	34.47	33.29	24.84	44.18
Capital replacement	13.72	15.06	16.72	15.88	17.37	18.04	18.08	19.55	20.43	20.20	24.36	23.11	24.23
Gross value less cash expenses and replacement (excl. direct Gov't. payments)	26.03	62.98	33.13	46.91	55.04	.13	11.04	3.31	8.93	14.27	8.93	1.73	19.95
Economic (full ownership) costs:													
Variable cash expenses	53.10	47.72	55.33	61.52	65.51	73.21	78.36	79.05	76.76	75.98	68.39	60.27	62.81
General farm overhead	4.20	4.46	4.75	7.02	6.76	7.43	6.41	6.14	6.05	6.23	4.54	4.58	7.51
Taxes and insurance	4.55	4.73	5.43	5.44	6.02	5.34	4.91	4.89	5.10	5.40	6.74	6.82	7.15
Capital replacement	13.72	15.06	16.72	15.88	17.37	18.04	18.08	19.55	20.43	20.20	24.36	23.11	24.23
Allocated returns to owned inputs:													
Return to operating capital	1.42	1.14	1.45	2.27	3.13	4.09	4.99	3.99	3.11	3.48	2.18	1.43	1.57
Return to other nonland capital	3.70	3.80	3.77	3.34	3.59	3.58	3.04	3.02	2.80	3.48	4.20	4.03	4.88
Net land return	20.87	24.63	23.21	28.43	31.31	29.08	30.91	28.24	27.03	27.79	25.04	23.00	25.59
Unpaid labor	8.51	8.71	10.08	10.35	11.28	11.91	10.13	9.66	9.88	10.63	10.56	10.51	11.31
Total, economic costs	110.07	110.25	120.74	134.26	144.97	152.68	156.82	154.54	151.16	153.19	146.01	133.75	145.05
Residual returns to management and risk (excl. direct Gov't. payments)	6.50	39.28	8.96	17.42	21.78	-31.16	-17.21	-18.34	-13.44	-11.73	-19.30	-26.20	-11.31
Harvest-period price (dollars/bu.)	5.02	6.95	6.01	6.80	6.41	8.02	6.11	5.32	7.79	6.07	4.93	4.86	5.38
Yield (bu./planted acre)	23.20	21.50	21.60	22.30	26.00	15.14	22.84	25.61	17.67	23.29	25.70	22.13	24.87

Table 38--Sunflower production costs, U.S., 1975-87

Item	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Dollars per planted acre													
Gross value (excl. direct Gov't. payments):													
Primary crop	.00	.00	.00	.00	116.55	100.01	119.46	96.67	125.74	115.38	108.11	97.72	98.37
Total	.00	.00	.00	.00	116.55	100.01	119.46	96.67	125.74	115.38	108.11	97.72	98.37
Cash expenses:													
Seed	.00	.00	.00	.00	5.53	5.82	6.38	6.73	8.80	9.36	11.38	12.86	12.79
Fertilizer	.00	.00	.00	.00	9.18	11.44	11.02	10.10	9.04	9.77	9.90	8.49	7.23
Chemicals	.00	.00	.00	.00	6.50	6.88	7.31	13.83	14.55	14.80	8.53	8.47	8.64
Custom operations	.00	.00	.00	.00	1.98	2.20	2.50	1.88	1.90	1.95	2.62	2.62	2.66
Fuel, lube, and electricity	.00	.00	.00	.00	6.57	9.24	10.90	9.99	8.62	6.55	7.36	4.43	5.36
Repairs	.00	.00	.00	.00	5.85	6.57	7.91	6.00	6.24	5.93	5.35	5.59	5.61
Hired labor	.00	.00	.00	.00	1.27	1.35	1.55	1.33	1.32	.07	1.21	1.33	1.25
Drying	.00	.00	.00	.00	2.11	1.61	2.07	2.41	2.30	1.95	2.13	2.68	2.88
Miscellaneous	.00	.00	.00	.00	.00	.00	.00	.01	.01	.01	.00	.00	.00
Technical services	.00	.00	.00	.00	.00	.00	.00	.40	.38	.36	.35	.34	.34
Total, variable cash expenses	.00	.00	.00	.00	38.99	45.11	49.64	52.68	53.16	50.75	48.83	46.81	46.76
General farm overhead	.00	.00	.00	.00	6.88	5.90	7.43	5.44	8.21	8.36	4.72	5.22	7.55
Taxes and insurance	.00	.00	.00	.00	5.34	6.04	6.43	5.76	5.92	6.06	6.24	6.59	6.65
Interest on operating loans	.00	.00	.00	.00	4.94	5.93	10.89	7.03	12.05	12.53	5.88	5.22	4.08
Interest on real estate	.00	.00	.00	.00	5.58	5.61	9.23	9.03	11.55	10.11	7.38	6.13	8.29
Total, fixed cash expenses	.00	.00	.00	.00	22.73	23.48	33.98	27.26	37.73	37.06	24.22	23.16	26.57
Total, cash expenses	.00	.00	.00	.00	61.72	68.59	83.62	79.94	90.89	87.81	73.05	69.97	73.33
Gross value less cash expenses (excl. direct Gov't. payments)	.00	.00	.00	.00	54.83	31.42	35.84	16.73	34.85	27.57	35.06	27.75	25.04
Capital replacement	.00	.00	.00	.00	16.56	17.90	20.98	19.16	19.86	18.44	18.31	18.71	18.59
Gross value less cash expenses and replacement (excl. direct Gov't. payments)	.00	.00	.00	.00	38.27	13.52	14.86	-2.43	14.99	9.13	16.75	9.04	6.45
Economic (full ownership) costs:													
Variable cash expenses	.00	.00	.00	.00	38.99	45.11	49.64	52.68	53.16	50.75	48.83	46.81	46.76
General farm overhead	.00	.00	.00	.00	6.88	5.90	7.43	5.44	8.21	8.36	4.72	5.22	7.55
Taxes and insurance	.00	.00	.00	.00	5.34	6.04	6.43	5.76	5.92	6.06	6.24	6.59	6.65
Capital replacement	.00	.00	.00	.00	16.56	17.90	20.98	19.16	19.86	18.44	18.31	18.71	18.59
Allocated returns to owned inputs:													
Return to operating capital	.00	.00	.00	.00	1.09	2.01	2.61	2.06	1.67	1.87	1.41	.95	1.01
Return to other nonland capital	.00	.00	.00	.00	3.78	3.71	3.97	3.20	3.01	3.60	3.32	3.56	4.07
Net land return	.00	.00	.00	.00	30.36	27.42	31.85	29.15	32.75	31.18	29.74	26.66	25.49
Unpaid labor	.00	.00	.00	.00	5.40	5.76	6.60	5.65	5.62	7.12	5.16	5.65	5.34
Total, economic costs	.00	.00	.00	.00	108.40	113.84	129.51	123.10	130.20	127.38	117.73	114.15	115.46
Residual returns to management and risk (excl. direct Gov't. payments)	.00	.00	.00	.00	8.15	-13.83	-10.05	-26.43	-4.46	-12.00	-9.62	-16.43	-17.09
Harvest-period price (dollars/cwt.)	.00	.00	.00	.00	8.83	10.41	10.28	8.76	12.23	11.59	10.54	7.39	6.80
Yield (cwt./planted acre)	.00	.00	.00	.00	13.20	9.61	11.62	11.04	10.28	9.95	10.26	13.23	14.47

Table 39--Peanut production costs, U.S., 1975-87

Item	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Dollars per planted acre													
Gross value:													
Primary crop	495.95	488.49	509.98	548.45	534.95	366.31	710.18	656.42	562.79	707.78	621.19	662.30	615.90
Secondary crop	13.34	14.52	13.35	13.01	15.52	10.14	11.01	10.99	17.22	18.68	16.81	15.02	15.33
Total	509.28	503.01	523.33	561.46	550.47	376.45	721.19	667.41	580.01	726.46	638.00	677.32	631.23
Cash expenses:													
Seed	36.58	39.56	53.34	54.50	57.95	66.69	71.80	59.48	62.41	74.09	59.60	65.36	82.03
Fertilizer	17.01	16.82	18.92	18.80	19.96	22.64	21.77	20.63	19.20	20.50	18.68	17.22	17.05
Lime and gypsum	12.36	13.48	16.64	18.03	18.41	20.28	15.48	14.06	14.35	15.35	14.98	14.96	14.36
Chemicals	64.09	55.80	59.37	64.10	65.29	69.44	78.75	82.82	89.00	92.78	91.57	92.35	89.13
Custom operations	3.50	3.63	3.92	4.48	4.81	4.68	6.90	7.14	7.10	7.45	6.49	6.31	6.26
Fuel, lube, and electricity	17.84	18.21	19.52	22.01	31.14	40.74	35.40	33.96	30.86	27.09	30.65	20.13	24.54
Repairs	19.10	17.99	17.96	19.97	21.64	23.10	17.48	18.72	19.84	17.79	17.28	17.11	17.33
Hired labor	8.91	9.63	14.87	15.66	17.20	17.68	14.57	14.77	14.87	7.02	15.73	16.68	17.63
Drying	23.72	24.21	25.96	29.27	33.63	22.02	43.76	39.74	33.04	39.88	39.05	35.61	33.93
Miscellaneous	.00	.00	.00	.00	.00	.00	.09	.20	.20	.20	.20	.19	.20
Technical services	.00	.00	.00	.00	.00	.00	.19	.80	.84	.87	.86	.91	.89
Total, variable cash expenses	203.11	199.33	230.51	246.82	270.03	287.27	306.19	292.32	291.71	303.02	295.10	286.84	303.35
General farm overhead	19.42	20.29	21.60	23.13	26.18	20.49	30.80	27.36	27.92	28.87	24.31	38.05	35.36
Taxes and insurance	5.40	5.53	7.82	8.04	8.59	8.49	9.39	9.71	10.54	10.69	10.33	11.10	11.33
Interest on operating loans	16.95	15.67	14.99	16.79	20.37	24.46	57.16	50.91	40.27	34.69	24.68	34.74	22.42
Interest on real estate	20.11	20.11	20.07	20.07	20.16	20.28	50.26	45.95	57.53	39.22	41.31	45.64	30.27
Total, fixed cash expenses	61.88	61.60	64.49	68.04	75.31	73.72	147.61	133.93	136.26	113.47	100.63	129.53	99.38
Total, cash expenses	264.99	260.94	295.00	314.85	345.34	360.99	453.80	426.25	427.96	416.49	395.73	416.37	402.73
Gross value less cash expenses	244.30	242.07	228.33	246.61	205.13	15.46	267.39	241.16	152.05	309.97	242.27	260.95	228.50
Capital replacement	18.85	21.70	33.74	34.72	36.08	39.02	43.63	46.88	49.85	49.52	43.05	43.67	43.52
Gross value less cash expenses and replacement	225.45	220.37	194.59	211.89	169.05	-23.56	223.76	194.28	102.20	260.45	199.22	217.28	184.98
Economic (full ownership) costs:													
Variable cash expenses	203.11	199.33	230.51	246.82	270.03	287.27	306.19	292.32	291.71	303.02	295.10	286.84	303.35
General farm overhead	19.42	20.29	21.60	23.13	26.18	20.49	30.80	27.36	27.92	28.87	24.31	38.05	35.36
Taxes and insurance	5.40	5.53	7.82	8.04	8.59	8.49	9.39	9.71	10.54	10.69	10.33	11.10	11.33
Capital replacement	18.85	21.70	33.74	34.72	36.08	39.02	43.63	46.88	49.85	49.52	43.05	43.67	43.52
Allocated returns to owned inputs:													
Return to operating capital	3.49	2.87	4.71	6.58	9.18	12.14	14.81	11.66	9.56	11.37	8.37	5.95	6.90
Return to other nonland capital	5.50	5.93	8.23	7.92	8.08	7.72	8.16	8.36	8.02	9.62	8.06	8.40	9.62
Net land return	92.16	91.89	118.81	124.33	135.02	123.68	105.26	92.90	84.63	91.78	84.07	88.47	78.50
Unpaid labor	9.65	10.44	16.11	16.96	18.63	19.15	15.79	16.01	16.10	23.50	17.05	18.07	19.09
Total, economic costs	357.59	357.98	441.54	468.49	511.79	517.96	534.03	505.20	498.33	528.37	490.33	500.55	507.67
Residual returns to management and risk	151.70	145.03	81.79	92.97	38.68	-141.51	187.16	162.21	81.68	198.09	147.67	176.77	123.56
Harvest-period price (dollars/lb.)	.20	.20	.21	.21	.21	.24	.27	.25	.24	.25	.22	.28	.27
Yield (lbs./planted acre)	2533.00	2445.00	2431.00	2602.00	2587.00	1526.43	2647.61	2642.50	2350.15	2827.78	2771.74	2354.11	2281.48

Table 40--Peanut production costs, Southeast, 1975-87

Item	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Dollars per planted acre													
Gross value:													
Primary crop	573.21	532.67	565.94	625.35	612.90	383.26	757.29	755.91	632.08	782.24	662.70	659.90	638.94
Secondary crop	16.09	16.53	15.47	15.49	15.48	10.01	10.87	11.41	17.91	17.82	17.08	13.91	14.89
Total	589.30	549.20	581.41	640.84	628.38	393.27	768.16	767.32	649.99	800.06	679.78	673.81	653.83
Cash expenses:													
Seed	39.11	45.30	63.06	64.19	66.02	76.21	78.97	62.59	65.37	77.29	61.54	69.57	89.16
Fertilizer	18.35	20.11	24.59	24.33	25.50	28.78	25.55	24.39	22.04	23.17	21.10	19.25	19.33
Lime and gypsum	15.81	18.45	20.63	22.84	22.91	25.69	17.93	16.91	17.04	18.64	18.47	17.71	17.29
Chemicals	68.44	71.44	73.09	80.18	81.85	87.08	94.39	101.26	106.60	108.81	108.82	107.94	105.21
Custom operations	3.90	3.81	4.19	4.92	5.27	5.50	5.97	6.19	6.21	6.36	5.45	5.49	5.43
Fuel, lube, and electricity	16.04	15.45	16.86	19.53	29.07	39.03	34.44	31.40	27.66	22.50	25.29	15.95	20.85
Repairs	19.53	17.35	17.63	20.14	21.66	23.04	16.41	17.56	18.47	15.95	15.14	15.28	15.30
Hired labor	9.29	9.40	14.82	15.44	16.66	17.05	14.04	13.59	13.67	6.39	13.87	15.21	15.98
Drying	25.07	24.14	26.35	30.52	36.97	22.62	44.81	42.51	35.30	41.93	40.50	32.75	32.66
Miscellaneous	.00	.00	.00	.00	.00	.00	.11	.27	.27	.27	.27	.26	.27
Technical services	.00	.00	.00	.00	.00	.00	.25	1.15	1.17	1.17	1.17	1.18	1.17
Total, variable cash expenses	215.54	225.45	261.22	282.09	305.91	325.00	332.86	317.82	313.79	322.48	311.62	300.59	322.65
General farm overhead	23.29	24.34	25.91	27.74	31.40	18.17	26.50	27.14	27.67	28.14	24.20	34.57	34.78
Taxes and insurance	5.23	5.61	8.09	7.91	8.57	8.42	9.00	9.38	10.24	10.17	10.16	11.06	11.18
Interest on operating loans	18.72	17.31	16.56	18.55	22.50	27.02	62.24	61.20	49.08	30.19	26.65	30.73	20.33
Interest on real estate	16.07	16.07	16.05	16.04	16.12	16.21	53.84	43.05	63.31	35.37	43.91	47.37	27.79
Total, fixed cash expenses	63.32	63.33	66.60	70.25	78.60	69.82	151.58	140.77	150.30	103.87	104.92	123.73	94.08
Total, cash expenses	278.86	288.79	327.83	352.34	384.51	394.82	484.44	458.59	464.09	426.35	416.54	424.32	416.73
Gross value less cash expenses	310.44	260.41	253.58	288.50	243.87	-1.55	283.72	308.73	185.90	373.71	263.24	249.49	237.10
Capital replacement	18.61	21.04	35.86	33.89	35.40	36.75	42.05	45.61	48.16	46.64	41.69	42.87	42.15
Gross value less cash expenses and replacement	291.83	239.37	217.72	254.61	208.47	-38.30	241.67	263.12	137.74	327.07	221.55	206.62	194.95
Economic (full ownership) costs:													
Variable cash expenses	215.54	225.45	261.22	282.09	305.91	325.00	332.86	317.82	313.79	322.48	311.62	300.59	322.65
General farm overhead	23.29	24.34	25.91	27.74	31.40	18.17	26.50	27.14	27.67	28.14	24.20	34.57	34.78
Taxes and insurance	5.23	5.61	8.09	7.91	8.57	8.42	9.00	9.38	10.24	10.17	10.16	11.06	11.18
Capital replacement	18.61	21.04	35.86	33.89	35.40	36.75	42.05	45.61	48.16	46.64	41.69	42.87	42.15
Allocated returns to owned inputs:													
Return to operating capital	3.77	3.38	5.94	8.20	11.21	14.87	17.12	13.37	10.80	12.66	9.34	6.63	7.78
Return to other nonland capital	5.38	5.69	8.66	7.65	7.85	7.40	7.71	7.97	7.60	8.90	7.65	8.09	9.13
Net land return	104.71	98.60	142.92	154.79	176.75	170.91	99.00	92.27	89.73	87.71	78.84	75.90	70.25
Unpaid labor	10.07	10.18	16.06	16.73	18.05	18.47	15.20	14.73	14.80	21.39	15.03	16.47	17.31
Total, economic costs	386.60	394.29	504.67	539.00	595.15	599.99	549.45	528.29	522.80	538.09	498.53	496.18	515.23
Residual returns to management and risk	202.70	154.91	76.74	101.84	33.23	-206.72	218.71	239.03	127.19	261.97	181.25	177.63	138.60
Harvest-period price (dollars/lb.)	.19	.19	.20	.20	.20	.22	.27	.24	.23	.24	.21	.28	.27
Yield (lbs./planted acre)	3057.00	2784.00	2817.00	3098.00	3095.00	1759.83	2846.25	3110.11	2702.82	3219.14	3132.36	2384.52	2387.73

Table 41--Peanut production costs, Southern Plains, 1975-87

Item	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Dollars per planted acre													
Gross value:													
Primary crop	344.77	354.63	351.64	342.33	408.57	336.09	444.76	378.30	417.50	456.70	464.12	545.46	481.72
Secondary crop	17.08	19.42	16.96	14.96	18.20	13.31	13.88	11.99	17.98	24.89	18.71	18.52	19.19
Total	361.85	374.04	368.60	357.29	426.77	349.40	458.64	390.29	435.48	481.59	482.83	563.98	500.91
Cash expenses:													
Seed	30.82	29.51	38.94	39.15	41.33	49.25	61.46	42.57	44.50	52.81	42.87	45.07	57.49
Fertilizer	17.60	14.25	12.58	12.53	13.95	16.39	21.56	20.71	19.61	21.22	20.02	17.93	17.15
Lime and gypsum	.60	.54	.07	.08	.08	.11	.55	.62	.60	.50	.50	.56	.63
Chemicals	45.92	23.92	27.56	29.33	30.28	29.89	31.43	33.92	36.51	39.25	38.77	38.43	37.43
Custom operations	3.93	4.26	4.37	4.52	4.89	4.02	6.96	7.03	7.44	8.67	7.63	7.14	7.13
Fuel, lube, and electricity	29.09	31.01	31.58	32.23	42.03	52.68	41.34	42.55	42.27	45.27	48.61	36.59	39.05
Repairs	23.47	23.08	21.89	22.03	24.23	25.59	22.19	22.95	25.18	24.79	24.50	24.20	24.57
Hired labor	7.27	8.01	16.18	17.64	19.35	20.06	16.32	17.32	17.67	8.73	20.12	20.92	21.74
Drying	11.90	12.69	12.93	13.19	18.49	12.11	18.39	16.87	18.38	18.06	19.27	20.01	20.43
Miscellaneous	.00	.00	.00	.00	.00	.00	.03	.01	.01	.01	.01	.01	.01
Technical services	.00	.00	.00	.00	.00	.00	.01	.56	.58	.64	.64	.62	.62
Total, variable cash expenses	170.61	147.26	166.09	170.70	194.63	210.10	220.24	205.11	212.75	219.95	222.94	211.48	226.25
General farm overhead	13.84	14.46	15.39	16.48	18.65	21.31	28.55	20.71	21.57	24.06	23.95	51.32	32.81
Taxes and insurance	6.03	5.68	7.76	8.58	8.71	7.86	8.53	8.50	9.43	10.23	11.00	11.64	12.12
Interest on operating loans	12.62	11.67	11.16	12.50	15.17	18.21	40.60	28.32	27.89	29.97	26.51	44.84	28.55
Interest on real estate	18.66	18.66	18.63	18.63	18.71	18.82	27.97	21.34	23.80	21.41	18.83	39.65	25.80
Total, fixed cash expenses	51.14	50.46	52.94	56.19	61.24	66.20	105.65	78.87	82.69	85.67	80.29	147.45	99.28
Total, cash expenses	221.75	197.73	219.03	226.89	255.87	276.30	325.89	283.98	295.44	305.62	303.23	358.93	325.53
Gross value less cash expenses	140.10	176.31	149.57	130.40	170.90	73.10	132.75	106.31	140.04	175.97	179.60	205.05	175.38
Capital replacement	20.70	25.37	33.85	39.44	39.78	46.17	44.77	46.83	51.35	54.40	56.18	55.77	56.68
Gross value less cash expenses and replacement	119.40	150.94	115.72	90.96	131.12	26.93	87.98	59.48	88.69	121.57	123.42	149.28	118.70
Economic (full ownership) costs:													
Variable cash expenses	170.61	147.26	166.09	170.70	194.63	210.10	220.24	205.11	212.75	219.95	222.94	211.48	226.25
General farm overhead	13.84	14.46	15.39	16.48	18.65	21.31	28.55	20.71	21.57	24.06	23.95	51.32	32.81
Taxes and insurance	6.03	5.68	7.76	8.58	8.71	7.86	8.53	8.50	9.43	10.23	11.00	11.64	12.12
Capital replacement	20.70	25.37	33.85	39.44	39.78	46.17	44.77	46.83	51.35	54.40	56.18	55.77	56.68
Allocated returns to owned inputs:													
Return to operating capital	2.87	1.92	2.67	3.93	5.51	7.36	9.36	7.22	5.88	7.13	5.39	3.67	4.27
Return to other nonland capital	5.95	6.83	8.13	8.85	8.77	8.53	8.39	8.35	8.28	10.58	10.22	10.52	12.29
Net land return	58.10	58.72	61.69	49.30	62.92	56.41	72.18	64.74	73.18	80.25	80.73	89.82	76.94
Unpaid labor	7.88	8.67	17.52	19.12	20.96	21.74	17.69	18.76	19.15	29.23	21.79	22.66	23.55
Total, economic costs	285.98	268.91	313.11	316.40	359.93	379.48	409.71	380.22	401.59	435.83	432.20	456.88	444.91
Residual returns to management and risk	75.87	105.13	55.49	40.89	66.84	-30.08	48.93	10.07	33.89	45.76	50.63	107.10	56.00
Harvest-period price (dollars/lb.)	.21	.22	.23	.23	.22	.32	.26	.25	.25	.27	.26	.31	.27
Yield (lbs./planted acre)	1622.00	1635.00	1544.00	1496.00	1820.00	1049.47	1718.39	1523.50	1668.16	1704.12	1791.96	1752.31	1786.79

Table 42--Peanut production costs, Virginia and North Carolina, 1975-87

Item	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Dollars per planted acre													
Gross value:													
Primary crop	490.51	564.19	582.23	627.61	497.35	362.54	887.49	741.40	525.40	754.40	686.76	834.74	714.49
Secondary crop	5.11	6.50	5.91	5.77	7.00	5.71	7.99	8.49	13.93	13.89	13.32	14.84	11.63
Total	495.62	570.69	588.14	633.39	504.35	368.25	895.48	749.89	539.33	768.29	700.08	849.58	726.12
Cash expenses:													
Seed	38.30	38.68	47.44	50.24	61.04	65.29	62.41	73.02	76.19	89.64	75.22	75.74	88.59
Fertilizer	12.19	11.23	12.24	12.46	13.39	14.18	10.47	9.87	9.25	9.62	8.50	7.69	7.86
Lime and gypsum	20.82	19.46	30.90	32.19	34.81	35.00	26.08	23.77	23.56	22.27	22.19	23.32	22.24
Chemicals	80.05	60.57	68.99	71.70	73.11	77.79	88.29	95.12	100.01	102.20	102.11	101.22	98.71
Custom operations	2.09	2.53	2.70	3.09	3.31	3.26	9.64	9.91	9.63	9.95	8.56	8.54	8.38
Fuel, lube, and electricity	9.41	11.22	11.90	13.44	19.62	27.69	31.16	29.87	26.41	20.69	25.29	14.95	18.59
Repairs	13.48	14.83	14.64	16.31	17.39	19.54	15.04	16.45	17.36	15.63	15.07	15.04	15.10
Hired labor	10.37	12.93	12.96	13.16	15.31	15.92	14.09	14.76	15.12	7.16	16.36	17.05	18.29
Drying	35.66	42.51	45.07	50.92	48.26	35.27	71.27	62.10	44.87	60.36	60.49	69.39	57.94
Miscellaneous	.00	.00	.00	.00	.00	.00	.12	.22	.22	.22	.22	.21	.22
Technical services	.00	.00	.00	.00	.00	.00	.22	.13	.13	.13	.13	.13	.13
Total, variable cash expenses	222.37	213.95	246.82	263.51	286.24	293.94	328.79	335.21	322.75	337.88	334.14	333.28	336.06
General farm overhead	15.44	16.13	17.17	18.38	20.81	10.58	46.68	36.78	37.06	37.76	25.20	34.32	41.24
Taxes and insurance	4.89	5.07	7.08	7.62	8.47	9.65	11.61	12.24	12.98	13.23	10.02	10.51	10.81
Interest on operating loans	7.44	6.88	6.58	7.37	8.94	10.74	61.68	51.55	27.50	57.54	15.40	37.72	22.00
Interest on real estate	13.84	13.84	13.82	13.82	13.88	13.96	66.29	86.73	82.76	76.51	62.31	46.64	46.33
Total, fixed cash expenses	41.61	41.92	44.65	47.19	52.11	44.93	186.26	187.30	160.30	185.04	112.93	129.19	120.38
Total, cash expenses	263.99	255.88	291.47	310.70	338.34	338.87	515.05	522.51	483.05	522.92	447.07	462.47	456.44
Gross value less cash expenses	231.64	314.82	296.67	322.69	166.00	29.38	380.43	227.38	56.28	245.37	253.01	387.11	269.68
Capital replacement	16.60	17.77	27.36	30.02	32.13	34.84	47.06	50.55	53.45	53.98	30.24	30.22	30.34
Gross value less cash expenses and replacement	215.04	297.05	269.31	292.67	133.87	-5.46	333.37	176.83	2.83	191.39	222.77	356.89	239.34
Economic (full ownership) costs:													
Variable cash expenses	222.37	213.95	246.82	263.51	286.24	293.94	328.79	335.21	322.75	337.88	334.14	333.28	336.06
General farm overhead	15.44	16.13	17.17	18.38	20.81	10.58	46.68	36.78	37.06	37.76	25.20	34.32	41.24
Taxes and insurance	4.89	5.07	7.08	7.62	8.47	9.65	11.61	12.24	12.98	13.23	10.02	10.51	10.81
Capital replacement	16.60	17.77	27.36	30.02	32.13	34.84	47.06	50.55	53.45	53.98	30.24	30.22	30.34
Allocated returns to owned inputs:													
Return to operating capital	3.65	2.89	4.31	6.16	9.08	11.39	14.43	12.66	10.30	11.99	8.99	6.22	7.15
Return to other nonland capital	5.13	5.14	7.06	7.24	7.61	7.44	9.24	9.48	9.06	11.07	6.62	6.79	7.83
Net land return	83.40	102.67	113.99	130.58	108.60	87.58	164.43	131.94	82.86	121.81	106.77	139.77	113.20
Unpaid labor	11.23	14.00	14.04	14.25	16.58	17.24	15.27	15.98	16.39	23.99	17.73	18.47	19.82
Total, economic costs	362.71	377.62	437.84	477.77	489.53	472.66	637.51	604.84	544.85	611.70	539.71	579.58	566.44
Residual returns to management and risk	132.91	193.07	150.30	155.62	14.82	-104.41	257.97	145.05	-5.52	156.59	160.37	270.00	159.68
Harvest-period price (dollars/lb.)	.20	.21	.22	.22	.21	.23	.28	.27	.25	.27	.24	.27	.28
Yield (lbs./planted acre)	2429.00	2738.00	2691.00	2887.00	2332.00	1566.58	3165.37	2793.20	2084.35	2820.20	2826.16	3061.28	2561.00

Table 43--Flaxseed production costs, U.S., 1975-87

Item	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Dollars per planted acre													
Gross value (excl. direct Gov't. payments):													
Primary crop	59.31	49.87	48.19	70.61	78.05	84.65	79.63	70.45	79.01	72.62	73.00	58.86	49.98
Secondary crop	.00	.00	.00	.00	.00	.00	.00	7.65	7.17	6.87	9.24	5.39	5.76
Total	59.31	49.87	48.19	70.61	78.05	84.65	79.63	78.10	86.18	79.49	82.24	64.25	55.74
Cash expenses:													
Seed	7.50	6.39	4.75	4.65	6.65	6.65	7.63	7.11	5.76	7.09	6.14	6.06	4.81
Fertilizer	1.43	1.11	.96	2.08	2.35	2.35	3.04	4.09	3.85	3.96	3.75	3.07	2.68
Chemicals	1.73	2.33	1.96	1.99	2.05	2.05	2.39	4.07	4.42	4.49	4.55	4.50	4.45
Custom operations	.62	.52	.86	1.06	1.05	1.05	1.14	1.44	1.21	1.10	1.05	.91	.74
Fuel, lube, and electricity	2.14	1.77	2.88	3.51	5.01	5.01	8.25	10.30	9.21	7.55	8.79	5.14	6.36
Repairs	3.50	2.67	4.04	4.86	5.17	5.17	6.65	7.28	7.71	7.33	7.12	7.19	7.39
Hired labor	1.03	1.16	1.25	1.12	1.12	1.29	1.36	1.80	1.84	.10	1.94	2.05	1.97
Miscellaneous	.00	.00	.00	.00	.00	.00	.00	.63	.63	.64	.64	.61	.64
Technical services	.00	.00	.00	.00	.00	.00	.00	.08	.09	.09	.09	.10	.10
Total, variable cash expenses	17.96	15.94	16.69	19.27	23.40	23.57	30.46	36.80	34.72	32.35	34.07	29.63	29.14
General farm overhead	2.75	2.92	3.12	3.93	4.75	4.49	4.84	3.95	4.89	4.98	3.64	3.40	4.27
Taxes and insurance	4.08	4.27	4.78	5.17	5.66	6.04	6.04	6.77	6.93	7.06	7.37	7.64	7.88
Interest on operating loans	4.52	4.18	3.99	4.48	5.43	6.52	7.10	5.11	7.18	7.47	4.56	3.40	2.31
Interest on real estate	5.10	5.10	5.09	5.09	5.11	5.14	5.97	6.51	6.85	6.03	5.83	3.97	4.68
Total, fixed cash expenses	16.45	16.46	16.98	18.66	20.95	22.19	23.95	22.34	25.85	25.54	21.40	18.41	19.14
Total, cash expenses	34.40	32.41	33.67	37.93	44.36	45.76	54.41	59.14	60.57	57.89	55.47	48.04	48.28
Gross value less cash expenses (excl. direct Gov't. payments)	24.91	17.46	14.52	32.69	33.69	38.89	25.22	18.96	25.61	21.60	26.77	16.21	7.46
Capital replacement	9.82	10.50	11.32	13.40	14.55	17.97	17.94	20.91	22.28	21.87	22.32	22.27	22.91
Gross value less cash expenses and replacement (excl. direct Gov't. payments)	15.09	6.96	3.20	19.29	19.14	20.92	7.28	-1.95	3.33	-.27	4.45	-6.06	-15.45
Economic (full ownership) costs:													
Variable cash expenses	17.96	15.94	16.69	19.27	23.40	23.57	30.46	36.80	34.72	32.35	34.07	29.63	29.14
General farm overhead	2.75	2.92	3.12	3.93	4.75	4.49	4.84	3.95	4.89	4.98	3.64	3.40	4.27
Taxes and insurance	4.08	4.27	4.78	5.17	5.66	6.04	6.04	6.77	6.93	7.06	7.37	7.64	7.88
Capital replacement	9.82	10.50	11.32	13.40	14.55	17.97	17.94	20.91	22.28	21.87	22.32	22.27	22.91
Allocated returns to owned inputs:													
Return to operating capital	.50	.45	.40	.50	.80	1.03	1.41	1.11	.84	.94	.74	.47	.49
Return to other nonland capital	2.84	2.84	2.74	3.03	3.23	3.60	3.29	3.82	3.67	4.46	4.29	4.41	5.21
Net land return	14.15	11.97	12.73	19.68	20.19	20.58	23.12	19.99	21.55	20.45	17.92	14.62	12.63
Unpaid labor	4.37	4.92	5.35	4.76	4.79	5.52	5.82	7.67	7.83	10.00	8.28	8.75	8.42
Total, economic costs	56.48	53.83	57.12	69.73	77.36	82.80	92.92	101.02	102.71	102.11	98.63	91.19	90.95
Residual returns to management and risk (excl. direct Gov't. payments)	2.84	-3.96	-8.92	.88	.69	1.85	-13.29	-22.92	-16.53	-22.62	-16.39	-26.94	-35.21
Harvest-period price (dollars/bu.)	6.52	7.02	4.50	5.69	5.91	7.04	6.59	5.33	6.87	5.74	5.46	3.67	3.15
Yield (bu./planted acre)	9.10	7.10	10.70	12.40	13.20	12.03	12.09	13.21	11.51	12.65	13.37	16.03	15.84

Table 44--Cotton production costs, U.S., 1975-87

Item	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Dollars per planted acre													
Gross value (excl. direct Gov't. payments):	211.67	277.75	262.49	226.06	316.28	274.16	286.69	319.22	312.23	318.77	330.89	231.91	438.76
Primary crop	40.73	48.04	51.59	36.27	49.74	39.62	38.86	35.16	64.82	46.48	32.97	31.28	47.20
Secondary crop													
Total	252.40	325.79	314.09	262.33	366.02	313.78	325.55	354.38	377.05	365.25	363.86	263.19	485.96
Cash expenses:													
Seed	5.88	5.03	6.67	6.18	6.23	6.27	8.30	8.53	8.35	8.96	8.75	8.14	8.46
Fertilizer	17.86	17.06	17.26	13.49	14.44	17.79	21.66	25.65	21.25	24.28	23.59	19.09	19.93
Lime and gypsum	.55	.71	.54	.36	.35	.48	.96	1.14	1.11	1.31	1.38	1.36	1.29
Chemicals	29.83	25.20	19.47	35.27	34.92	37.31	42.27	47.70	48.88	51.26	52.60	50.42	50.99
Custom operations	7.19	8.08	10.18	8.40	8.87	9.81	14.26	15.92	15.46	15.97	13.65	15.04	20.32
Fuel, lube, and electricity	16.36	18.09	22.65	18.42	27.43	35.10	35.19	35.98	32.72	29.42	34.02	22.91	28.53
Repairs	22.75	23.21	27.07	21.71	25.64	28.42	17.37	18.45	19.70	19.03	19.05	17.82	19.03
Hired labor	12.52	14.73	17.06	23.21	26.38	27.74	21.59	23.32	23.28	11.09	24.60	23.97	25.73
Purchased irrigation water	3.00	3.37	4.24	3.50	3.88	3.94	5.41	6.24	6.26	6.37	6.32	6.08	6.35
Ginning	25.14	28.24	35.59	29.36	41.10	33.48	46.87	49.86	44.95	54.48	58.50	42.98	66.36
Miscellaneous	.00	.00	.00	.00	.00	.00	1.13	1.31	1.31	1.33	1.32	1.27	1.33
Technical services	.00	.00	.00	.00	.00	.00	1.24	1.70	1.65	1.70	1.72	1.63	1.69
Total, variable cash expenses	141.08	143.71	160.73	159.90	189.24	200.34	216.25	235.80	224.92	225.20	245.50	210.71	250.00
General farm overhead	14.23	15.33	16.37	12.53	13.28	9.61	20.89	23.88	23.23	24.28	21.16	15.48	27.98
Taxes and insurance	6.14	6.57	7.64	8.27	9.28	11.50	9.95	9.33	9.30	10.06	10.55	10.17	11.13
Interest on operating loans	6.57	6.08	5.81	6.52	7.90	9.49	27.68	31.74	26.32	27.06	19.74	14.25	26.52
Interest on real estate	10.28	10.28	10.27	10.26	10.31	10.37	25.23	23.14	28.44	28.21	26.14	19.54	33.69
Total, fixed cash expenses	37.23	38.26	40.09	37.58	40.77	40.97	83.75	88.09	87.29	89.61	77.59	59.44	99.32
Total, cash expenses	178.31	181.97	200.82	197.48	230.01	241.31	300.00	323.89	312.21	314.81	323.09	270.15	349.32
Gross value less cash expenses (excl. direct Gov't. payments)	74.09	143.82	113.27	64.86	136.01	72.47	25.55	30.49	64.84	50.44	40.77	-6.96	136.64
Capital replacement	31.25	39.59	41.10	34.98	42.74	46.23	38.21	42.58	44.88	44.06	45.57	41.76	44.52
Gross value less cash expenses and replacement (excl. direct Gov't. payments)	42.84	104.23	72.17	29.88	93.27	26.24	-12.66	-12.09	19.96	6.38	-4.80	-48.72	92.12
Economic (full ownership) costs:													
Variable cash expenses	141.08	143.71	160.73	159.90	189.24	200.34	216.25	235.80	224.92	225.20	245.50	210.71	250.00
General farm overhead	14.23	15.33	16.37	12.53	13.28	9.61	20.89	23.88	23.23	24.28	21.16	15.48	27.98
Taxes and insurance	6.14	6.57	7.64	8.27	9.28	11.50	9.95	9.33	9.30	10.06	10.55	10.17	11.13
Capital replacement	31.25	39.59	41.10	34.98	42.74	46.23	38.21	42.58	44.88	44.06	45.57	41.76	44.52
Allocated returns to owned inputs:													
Return to operating capital	2.63	2.25	2.82	3.70	5.29	6.80	8.83	7.76	5.80	6.67	5.38	3.33	3.84
Return to other nonland capital	8.23	9.76	9.04	7.19	8.63	9.13	6.23	6.65	6.36	7.88	7.66	7.24	8.89
Net land return	25.86	33.42	32.10	40.77	49.31	43.24	50.55	58.00	62.84	60.50	58.63	43.39	72.67
Unpaid labor	5.11	6.01	6.97	9.48	10.77	11.33	8.82	9.53	9.51	21.53	10.05	9.79	10.51
Total, economic costs	234.53	256.64	276.78	276.83	328.54	338.18	359.73	393.52	386.84	400.18	404.50	341.87	429.54
Residual returns to management and risk (excl. direct Gov't. payments)	17.87	69.15	37.31	-14.49	37.47	-24.40	-34.18	-39.14	-9.79	-34.93	-40.64	-78.68	56.42
Harvest-period price (dollars/lb.)	.51	.64	.52	.58	.63	.75	.55	.58	.66	.57	.55	.51	.65
Yield (lbs./planted acre)	416.00	435.00	505.00	390.00	502.40	367.19	523.88	550.73	470.40	554.65	598.35	457.12	679.32

Table 45--Cotton production costs, Delta, 1975-87

Item	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Dollars per planted acre													
Gross value (excl. direct Gov't. payments):													
Primary crop	224.77	225.26	278.48	278.91	362.86	301.64	295.46	426.17	359.38	378.68	366.24	248.79	496.29
Secondary crop	42.79	38.54	54.15	44.27	59.30	41.56	34.50	36.70	70.01	43.97	26.90	29.10	46.56
Total	267.56	263.81	332.63	323.18	422.16	343.20	329.96	462.87	429.39	422.65	393.14	277.89	542.85
Cash expenses:													
Seed	5.79	5.02	6.37	5.46	5.47	5.74	6.16	6.20	6.29	8.58	7.98	7.21	7.94
Fertilizer	26.98	19.87	22.32	20.78	22.33	28.72	31.36	31.22	30.30	34.60	32.81	26.40	26.58
Lime and gypsum	1.02	1.13	1.07	.92	1.01	1.28	1.71	1.85	1.86	1.85	1.74	1.88	1.89
Chemicals	35.86	44.45	40.46	58.04	60.43	63.56	71.81	78.42	80.71	82.69	82.95	81.17	76.91
Custom operations	6.38	5.47	9.02	8.65	9.25	10.62	8.72	9.37	9.57	9.75	8.47	20.78	20.01
Fuel, lube, and electricity	8.14	6.87	11.26	10.65	18.73	24.77	28.70	28.38	23.07	18.90	22.50	13.52	17.32
Repairs	29.53	23.01	35.10	32.74	35.22	40.96	18.05	20.92	21.72	22.34	22.03	21.97	22.50
Hired labor	12.28	13.55	16.76	19.40	22.10	23.70	17.47	18.84	18.96	9.21	18.97	20.00	19.93
Ginning	23.82	20.44	33.69	32.32	39.11	29.93	37.05	55.09	43.18	57.08	56.83	45.22	64.51
Miscellaneous	.00	.00	.00	.00	.00	.00	2.59	2.48	2.49	2.53	2.51	2.42	2.52
Technical services	.00	.00	.00	.00	.00	.00	2.45	2.94	2.87	2.87	2.88	2.83	2.72
Total, variable cash expenses	149.79	139.81	176.05	188.96	213.65	229.28	226.07	255.71	241.02	250.41	259.67	243.40	262.83
General farm overhead	14.98	15.14	16.12	13.01	13.16	8.35	18.83	23.23	23.23	23.67	21.68	15.04	29.35
Taxes and insurance	6.65	6.95	9.13	10.49	11.29	11.42	7.91	8.52	9.02	9.58	9.90	10.47	10.92
Interest on operating loans	7.25	6.70	6.41	7.18	8.71	10.46	25.56	43.84	27.61	30.94	22.11	15.25	29.71
Interest on real estate	10.76	10.76	10.74	10.74	10.79	10.85	20.12	32.05	23.69	32.74	21.98	15.94	31.21
Total, fixed cash expenses	39.64	39.54	42.40	41.42	43.95	41.08	72.42	107.64	83.55	96.93	75.67	56.70	101.19
Total, cash expenses	189.43	179.35	218.45	230.38	257.60	270.36	298.49	363.35	324.57	347.34	335.34	300.10	364.02
Gross value less cash expenses (excl. direct Gov't. payments)	78.13	84.45	114.19	92.80	164.57	72.84	31.47	99.52	104.82	75.31	57.80	-22.21	178.83
Capital replacement	41.66	46.19	58.39	49.03	51.99	57.11	45.66	52.01	53.83	50.48	48.29	48.12	48.85
Gross value less cash expenses and replacement (excl. direct Gov't. payments)	36.47	38.26	55.80	43.77	112.58	15.73	-14.19	47.51	50.99	24.83	9.51	-70.33	129.98
Economic (full ownership) costs:													
Variable cash expenses	149.79	139.81	176.05	188.96	213.65	229.28	226.07	255.71	241.02	250.41	259.67	243.40	262.83
General farm overhead	14.98	15.14	16.12	13.01	13.16	8.35	18.83	23.23	23.23	23.67	21.68	15.04	29.35
Taxes and insurance	6.65	6.95	9.13	10.49	11.29	11.42	7.91	8.52	9.02	9.58	9.90	10.47	10.92
Capital replacement	41.66	46.19	58.39	49.03	51.99	57.11	45.66	52.01	53.83	50.48	48.29	48.12	48.85
Allocated returns to owned inputs:													
Return to operating capital	2.38	2.07	2.46	3.68	5.15	6.71	8.65	7.30	5.33	6.52	5.12	3.28	3.56
Return to other nonland capital	10.88	11.29	12.74	10.00	10.41	11.83	7.19	7.87	7.34	9.05	8.43	8.63	10.04
Net land return	35.43	35.86	41.57	51.92	63.03	56.32	55.55	66.20	60.50	62.88	57.61	45.94	70.03
Unpaid labor	5.01	5.53	6.85	7.93	9.02	9.68	7.13	7.69	7.74	17.89	7.75	8.17	8.14
Total, economic costs	266.79	262.84	323.30	335.02	377.71	390.70	376.99	428.53	408.01	430.47	418.45	383.05	443.72
Residual returns to management and risk (excl. direct Gov't. payments)	.77	.97	9.33	-11.84	44.45	-47.50	-47.03	34.34	21.38	-7.82	-25.31	-105.16	99.13
Harvest-period price (dollars/lb.)	.51	.64	.52	.59	.64	.77	.56	.58	.66	.55	.54	.44	.64
Yield (lbs./planted acre)	437.00	349.00	530.00	476.00	570.20	393.76	524.32	732.53	541.26	690.95	674.14	561.46	781.18

Table 46--Cotton production costs, Southeast, 1975-87

Item	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Dollars per planted acre													
Gross value (excl. direct Gov't. payments):													
Primary crop	196.00	245.96	142.02	267.94	317.12	271.96	301.61	427.81	269.57	412.84	398.45	236.08	377.51
Secondary crop	33.56	37.85	24.84	38.25	41.68	31.05	34.95	35.27	52.97	49.64	28.95	25.01	35.01
Total	229.56	283.81	166.86	306.19	358.80	303.01	336.56	463.08	322.54	462.48	427.40	261.09	412.52
Cash expenses:													
Seed	5.14	5.62	6.20	6.15	6.12	5.50	5.46	5.23	5.52	6.96	6.48	6.90	6.65
Fertilizer	42.02	34.53	40.33	32.81	30.02	40.54	41.68	42.69	40.73	41.99	38.47	35.72	33.38
Lime and gypsum	3.21	3.85	3.86	3.38	3.75	4.62	6.60	6.72	6.82	9.00	8.53	8.32	6.64
Chemicals	57.93	51.74	46.70	86.34	87.87	93.36	94.31	101.31	105.12	106.95	110.35	108.92	106.08
Custom operations	7.99	8.58	6.61	11.94	12.54	13.82	10.72	11.30	11.55	12.06	10.00	9.75	9.86
Fuel, lube, and electricity	6.98	7.38	5.65	10.06	17.71	24.56	25.94	25.13	21.30	18.87	20.63	12.83	16.84
Repairs	23.65	23.07	16.44	28.88	35.73	41.56	16.55	18.66	19.10	20.13	20.14	19.71	20.29
Hired labor	11.62	12.72	13.60	15.26	18.25	19.48	15.19	15.81	15.72	7.43	16.17	17.24	18.48
Ginning	19.84	21.31	16.41	29.65	33.37	24.50	39.56	60.06	33.39	62.18	64.37	38.92	49.98
Miscellaneous	.00	.00	.00	.00	.00	.00	2.70	1.82	1.83	1.86	1.85	1.78	1.86
Technical services	.00	.00	.00	.00	.00	.00	1.94	2.73	2.72	2.72	2.76	2.75	2.75
Total, variable cash expenses	178.37	168.80	155.79	224.47	245.36	267.94	260.65	291.46	263.80	290.15	299.74	262.84	272.81
General farm overhead	10.98	11.57	12.34	12.18	11.94	6.17	12.46	17.35	17.40	17.79	15.23	9.31	14.70
Taxes and insurance	6.11	6.79	7.47	10.36	12.34	12.38	8.29	8.85	9.38	10.26	11.62	12.08	12.75
Interest on operating loans	6.36	5.88	5.63	6.30	7.65	9.18	27.18	36.90	27.96	20.51	16.04	9.52	15.41
Interest on real estate	5.46	5.46	5.45	5.45	5.48	5.51	24.07	29.52	39.65	24.79	28.62	17.87	27.73
Total, fixed cash expenses	28.91	29.71	30.89	34.30	37.40	33.24	72.00	92.62	94.39	73.35	71.51	48.78	70.59
Total, cash expenses	207.28	198.51	186.68	258.77	282.76	301.18	332.65	384.08	358.19	363.50	371.25	311.62	343.40
Gross value less cash expenses (excl. direct Gov't. payments)	22.27	85.29	-19.82	47.42	76.04	1.83	3.91	79.00	-35.65	98.98	56.15	-50.53	69.12
Capital replacement	35.13	42.86	40.21	46.20	56.42	61.99	46.98	52.00	53.82	55.95	59.74	58.43	60.00
Gross value less cash expenses and replacement (excl. direct Gov't. payments)	-12.86	42.43	-60.03	1.22	19.62	-60.16	-43.07	27.00	-89.47	43.03	-3.59	-108.96	9.12
Economic (full ownership) costs:													
Variable cash expenses	178.37	168.80	155.79	224.47	245.36	267.94	260.65	291.46	263.80	290.15	299.74	262.84	272.81
General farm overhead	10.98	11.57	12.34	12.18	11.94	6.17	12.46	17.35	17.40	17.79	15.23	9.31	14.70
Taxes and insurance	6.11	6.79	7.47	10.36	12.34	12.38	8.29	8.85	9.38	10.26	11.62	12.08	12.75
Capital replacement	35.13	42.86	40.21	46.20	56.42	61.99	46.98	52.00	53.82	55.95	59.74	58.43	60.00
Allocated returns to owned inputs:													
Return to operating capital	3.76	2.84	3.10	4.84	6.41	8.68	10.56	8.82	6.99	7.91	6.18	4.18	4.45
Return to other nonland capital	9.51	10.86	9.10	9.77	11.72	13.33	7.67	8.15	7.58	9.89	10.02	10.07	11.88
Net land return	24.92	28.74	20.36	32.66	40.46	40.36	46.21	54.80	47.88	54.78	49.25	38.90	46.61
Unpaid labor	4.75	5.20	5.56	6.23	7.45	7.96	6.21	6.46	6.42	14.41	6.60	7.04	7.55
Total, economic costs	273.53	277.68	253.93	346.71	392.09	418.81	399.03	447.89	413.27	461.14	458.39	402.85	430.74
Residual returns to management and risk (excl. direct Gov't. payments)	-43.97	6.13	-87.07	-40.52	-33.29	-115.80	-62.47	15.19	-90.73	1.34	-30.99	-141.76	-18.22
Harvest-period price (dollars/lb.)	.52	.66	.53	.60	.65	.79	.57	.58	.67	.58	.55	.51	.66
Yield (lbs./planted acre)	375.00	375.00	266.00	450.00	490.40	344.12	528.69	739.39	400.00	713.34	728.96	460.67	574.08

Table 47--Cotton production costs, Southern Plains, 1975-87

Item	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Dollars per planted acre													
Gross value (excl. direct Gov't. payments):													
Primary crop	119.77	188.17	185.87	138.53	197.17	140.02	174.06	137.64	172.93	169.33	199.09	123.61	292.18
Secondary crop	24.83	35.05	39.35	23.94	34.16	20.47	29.09	18.63	41.39	29.27	20.80	20.17	32.34
Total	144.60	223.22	225.22	162.47	231.34	160.49	203.15	156.27	214.32	198.60	219.89	143.78	324.52
Cash expenses:													
Seed	5.86	4.57	6.68	6.49	6.51	6.41	9.59	10.23	9.25	9.57	9.51	8.35	9.09
Fertilizer	4.96	7.42	7.79	5.38	8.11	8.82	11.80	10.20	8.56	9.93	9.49	7.37	7.54
Chemicals	17.60	6.36	5.69	10.66	10.88	11.61	20.80	21.20	24.14	24.48	24.16	22.97	22.91
Custom operations	3.08	4.14	5.45	3.89	4.01	4.55	7.29	6.51	7.35	7.45	6.62	5.56	6.11
Fuel, lube, and electricity	11.19	14.82	19.39	13.65	20.09	26.45	28.03	26.57	26.14	24.72	26.53	17.52	20.34
Repairs	12.47	15.22	18.56	12.88	15.96	16.76	14.54	14.37	16.14	15.14	14.99	13.61	14.64
Hired labor	9.00	10.96	12.23	18.08	20.96	22.21	17.42	17.58	18.06	8.49	20.24	19.99	21.46
Purchased irrigation water	.08	.11	.14	.10	.08	.10	1.17	1.38	1.39	1.41	1.40	1.35	1.41
Ginning	17.17	23.10	30.42	21.72	32.03	21.51	35.37	27.24	29.95	35.68	39.90	26.15	50.93
Technical services	.00	.00	.00	.00	.00	.00	.15	.46	.57	.55	.52	.50	.50
Total, variable cash expenses	81.40	86.70	106.35	92.85	118.63	118.42	146.16	135.74	141.55	137.42	153.36	123.37	154.93
General farm overhead	8.71	8.80	9.38	8.18	8.26	8.95	13.20	8.60	9.03	9.11	11.02	7.24	16.31
Taxes and insurance	5.71	5.83	6.86	6.57	7.41	6.97	6.31	5.85	6.25	6.48	7.01	6.85	7.46
Interest on operating loans	5.30	4.90	4.69	5.25	6.37	7.65	18.57	11.71	11.64	11.35	12.16	7.98	17.99
Interest on real estate	7.83	7.83	7.82	7.82	7.85	7.90	13.43	8.97	10.11	8.35	8.78	5.81	13.07
Total, fixed cash expenses	27.55	27.37	28.74	27.82	29.90	31.47	51.51	35.13	37.03	35.29	38.97	27.88	54.83
Total, cash expenses	108.95	114.06	135.09	120.67	148.53	149.89	197.67	170.87	178.58	172.71	192.33	151.25	209.75
Gross value less cash expenses (excl. direct Gov't. payments)	35.65	109.16	90.13	41.80	82.81	10.60	5.48	-14.60	35.74	25.89	27.56	-7.47	114.76
Capital replacement	21.70	29.29	32.01	22.88	30.11	32.31	28.93	28.84	32.57	33.14	35.60	31.64	34.22
Gross value less cash expenses and replacement (excl. direct Gov't. payments)	13.95	79.87	58.12	18.92	52.70	-21.71	-23.45	-43.44	3.17	-7.25	-8.04	-39.11	80.54
Economic (full ownership) costs:													
Variable cash expenses	81.40	86.70	106.35	92.85	118.63	118.42	146.16	135.74	141.55	137.42	153.36	123.37	154.93
General farm overhead	8.71	8.80	9.38	8.18	8.26	8.95	13.20	8.60	9.03	9.11	11.02	7.24	16.31
Taxes and insurance	5.71	5.83	6.86	6.57	7.41	6.97	6.31	5.85	6.25	6.48	7.01	6.85	7.46
Capital replacement	21.70	29.29	32.01	22.88	30.11	32.31	28.93	28.84	32.57	33.14	35.60	31.64	34.22
Allocated returns to owned inputs:													
Return to operating capital	1.97	1.63	1.55	2.27	3.50	4.55	5.98	4.83	3.87	4.32	3.48	2.17	2.44
Return to other nonland capital	5.79	7.31	7.13	4.76	6.16	6.18	4.86	4.60	4.72	5.89	5.77	5.29	6.59
Net land return	14.52	23.92	22.98	26.45	33.09	21.21	33.92	28.23	38.89	34.85	39.45	25.18	58.47
Unpaid labor	3.67	4.48	4.99	7.39	8.56	9.07	7.11	7.18	7.38	16.48	8.27	8.17	8.76
Total, economic costs	143.47	167.95	191.24	171.35	215.72	207.66	246.47	223.88	244.26	247.69	263.95	209.91	289.18
Residual returns to management and risk (excl. direct Gov't. payments)	1.13	55.27	33.98	-8.88	15.62	-47.17	-43.32	-67.61	-29.94	-49.09	-44.06	-66.13	35.34
Harvest-period price (dollars/lb.)	.46	.57	.47	.52	.57	.70	.48	.51	.60	.52	.53	.49	.62
Yield (lbs./planted acre)	262.00	328.00	398.00	266.00	348.60	201.02	362.39	267.63	287.70	322.74	374.83	252.14	469.70

Table 48--Cotton production costs, Southwest, 1975-87

Item	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Dollars per planted acre													
Gross value (excl. direct Gov't. payments):													
Primary crop	558.33	747.54	549.04	447.62	682.36	784.60	697.48	671.15	742.88	678.84	673.69	660.33	865.01
Secondary crop	106.97	128.73	107.44	71.50	97.35	117.82	83.63	80.88	142.72	104.73	84.43	87.49	105.64
Total	665.30	876.26	656.48	519.12	779.71	902.42	781.11	752.03	885.60	783.57	758.12	747.82	970.65
Cash expenses:													
Seed	6.68	6.24	7.36	6.09	6.09	6.67	7.45	7.68	9.13	8.34	8.57	9.96	8.22
Fertilizer	33.67	32.06	32.72	27.89	24.95	32.10	38.36	57.69	45.40	48.94	47.98	44.11	42.76
Lime and gypsum	.00	.00	.00	.00	.00	.00	1.59	1.68	1.78	1.86	1.91	1.93	1.77
Chemicals	47.46	22.75	20.83	80.19	81.43	88.16	63.53	67.33	69.91	70.38	69.61	68.61	69.59
Custom operations	27.33	31.33	30.68	23.96	25.63	28.91	49.92	53.02	52.91	54.27	46.66	46.68	74.95
Fuel, lube, and electricity	59.25	66.85	65.05	50.09	67.36	88.00	74.94	76.45	72.75	64.16	83.28	72.02	83.64
Repairs	51.46	53.57	48.55	36.86	48.20	54.53	27.42	27.01	29.43	26.31	27.11	26.06	26.90
Hired labor	27.79	32.48	37.39	50.32	53.68	58.52	45.60	48.12	49.95	23.70	51.92	53.54	54.99
Purchased irrigation water	25.52	29.25	28.64	22.37	23.54	26.35	31.18	33.77	33.89	34.48	34.20	32.90	34.35
Ginning	61.31	70.29	68.82	53.75	79.34	90.12	107.19	105.17	103.26	108.66	119.26	113.20	131.21
Miscellaneous	.00	.00	.00	.00	.00	.00	2.21	3.99	4.00	4.07	4.04	3.88	4.05
Technical services	.00	.00	.00	.00	.00	.00	4.00	3.34	3.33	3.33	3.32	3.33	3.33
Total, variable cash expenses	340.48	344.82	340.04	351.52	410.22	473.36	453.39	485.25	475.74	448.49	497.86	476.23	535.77
General farm overhead	46.31	49.18	52.40	29.59	35.59	15.16	56.02	70.98	74.27	76.81	56.39	55.62	72.37
Taxes and insurance	6.78	7.97	7.99	10.91	13.15	29.85	27.32	20.56	20.18	22.32	22.64	22.71	23.20
Interest on operating loans	10.94	10.12	9.68	10.84	13.15	15.79	65.53	72.37	74.49	74.73	42.58	41.95	55.59
Interest on real estate	21.15	21.15	21.12	21.11	21.21	21.33	77.82	50.57	93.96	87.18	88.42	87.27	112.05
Total, fixed cash expenses	85.18	88.41	91.18	72.45	83.09	82.13	226.69	214.48	262.90	261.04	210.03	207.55	263.21
Total, cash expenses	425.66	433.23	431.22	423.97	493.32	555.49	680.08	699.73	738.64	709.53	707.89	683.78	798.98
Gross value less cash expenses (excl. direct Gov't. payments)	239.64	443.03	225.26	95.15	286.39	346.93	101.03	52.30	146.96	74.04	50.23	64.04	171.67
Capital replacement	43.48	56.22	44.96	56.85	75.74	83.01	59.81	67.11	71.74	65.46	67.09	61.88	63.50
Gross value less cash expenses and replacement (excl. direct Gov't. payments)	196.16	386.81	180.30	38.30	210.65	263.92	41.22	-14.81	75.22	8.58	-16.86	2.16	108.17
Economic (full ownership) costs:													
Variable cash expenses	340.48	344.82	340.04	351.52	410.22	473.36	453.39	485.25	475.74	448.49	497.86	476.23	535.77
General farm overhead	46.31	49.18	52.40	29.59	35.59	15.16	56.02	70.98	74.27	76.81	56.39	55.62	72.37
Taxes and insurance	6.78	7.97	7.99	10.91	13.15	29.85	27.32	20.56	20.18	22.32	22.64	22.71	23.20
Capital replacement	43.48	56.22	44.96	56.85	75.74	83.01	59.81	67.11	71.74	65.46	67.09	61.88	63.50
Allocated returns to owned inputs:													
Return to operating capital	5.15	4.52	8.15	8.66	11.90	15.49	19.31	16.49	12.63	14.05	11.62	7.94	8.83
Return to other nonland capital	11.25	13.62	9.72	11.49	15.03	16.08	9.58	10.55	10.26	11.80	11.45	11.01	13.06
Net land return	63.19	76.24	73.34	85.88	103.27	116.01	108.21	134.51	154.00	142.27	127.59	119.17	139.95
Unpaid labor	11.35	13.27	15.27	20.55	21.93	23.90	18.63	19.66	20.40	45.99	21.21	21.87	22.46
Total, economic costs	527.99	565.83	551.88	575.44	686.83	772.86	752.27	825.10	839.21	827.19	815.84	776.43	879.14
Residual returns to management and risk (excl. direct Gov't. payments)	137.31	310.44	104.60	-56.32	92.88	129.56	28.84	-73.07	46.39	-43.62	-57.72	-28.61	91.51
Harvest-period price (dollars/lb.)	.55	.69	.56	.63	.68	.77	.61	.63	.72	.65	.59	.59	.69
Yield (lbs./planted acre)	1016.00	1084.00	978.00	715.00	1003.60	1016.29	1136.00	1073.72	1028.17	1044.56	1146.77	1117.41	1261.58

Table 49--Sugarbeet production costs, U.S., 1975-87

Item	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Dollars per planted acre													
Gross value of production:													
Primary crop	.00	.00	.00	.00	.00	.00	645.86	701.98	718.17	666.67	673.94	730.93	826.72
Secondary crop	.00	.00	.00	.00	.00	.00	3.44	2.98	3.16	1.35	1.06	.95	.95
Total	.00	.00	.00	.00	.00	.00	649.30	704.96	721.33	668.02	675.01	731.88	827.67
Cash expenses:													
Seed	.00	.00	.00	.00	.00	.00	19.18	15.90	18.89	21.44	22.35	22.98	23.52
Fertilizer	.00	.00	.00	.00	.00	.00	58.66	58.08	54.99	51.10	47.14	41.55	39.88
Chemicals	.00	.00	.00	.00	.00	.00	50.62	52.80	55.64	44.16	44.46	43.80	42.46
Custom operations	.00	.00	.00	.00	.00	.00	41.78	35.09	35.37	37.73	37.11	33.84	34.76
Fuel and lubrication	.00	.00	.00	.00	.00	.00	47.88	46.30	45.35	42.41	45.60	41.74	41.74
Repairs	.00	.00	.00	.00	.00	.00	30.11	31.70	33.79	35.18	34.89	34.82	35.00
Hired labor	.00	.00	.00	.00	.00	.00	53.94	54.47	55.75	46.40	47.49	48.79	50.26
Purchased irrigation water	.00	.00	.00	.00	.00	.00	11.58	10.71	11.10	7.48	7.38	6.32	6.84
Miscellaneous	.00	.00	.00	.00	.00	.00	2.69	2.71	2.66	.36	.39	.38	.38
Total, variable cash expenses	.00	.00	.00	.00	.00	.00	316.44	307.76	313.54	286.28	286.81	274.22	274.85
General farm overhead	.00	.00	.00	.00	.00	.00	42.38	42.32	50.85	41.89	41.58	46.07	51.49
Taxes and insurance	.00	.00	.00	.00	.00	.00	17.65	17.28	18.33	16.11	17.70	18.29	18.96
Interest	.00	.00	.00	.00	.00	.00	111.10	68.50	57.73	77.85	73.04	72.08	78.29
Total, fixed cash expenses	.00	.00	.00	.00	.00	.00	171.13	128.10	126.91	135.85	132.32	136.44	148.73
Total, cash expenses	.00	.00	.00	.00	.00	.00	487.57	435.86	440.45	422.13	419.14	410.65	423.59
Gross value less cash expenses	.00	.00	.00	.00	.00	.00	161.73	269.10	280.88	245.89	255.87	321.22	404.08
Capital replacement	.00	.00	.00	.00	.00	.00	50.91	53.61	56.75	58.19	60.07	59.93	60.45
Gross value less cash expenses and replacement	.00	.00	.00	.00	.00	.00	110.82	215.49	224.13	187.69	195.80	261.29	343.63
Economic (full ownership) costs:													
Variable cash expenses	.00	.00	.00	.00	.00	.00	316.44	307.76	313.54	286.28	286.81	274.22	274.85
General farm overhead	.00	.00	.00	.00	.00	.00	42.38	42.32	50.85	41.89	41.58	46.07	51.49
Taxes and insurance	.00	.00	.00	.00	.00	.00	17.65	17.28	18.33	16.11	17.70	18.29	18.96
Capital replacement	.00	.00	.00	.00	.00	.00	50.91	53.61	56.75	58.19	60.07	59.93	60.45
Allocated returns to owned inputs:													
Return to operating capital	.00	.00	.00	.00	.00	.00	22.39	17.58	13.85	14.85	8.82	5.97	6.53
Return to other nonland capital	.00	.00	.00	.00	.00	.00	21.01	22.46	23.48	12.65	12.21	12.57	14.52
Net land return	.00	.00	.00	.00	.00	.00	74.64	97.63	92.97	100.59	100.91	107.74	115.71
Unpaid labor	.00	.00	.00	.00	.00	.00	35.34	34.78	35.62	45.01	46.83	50.06	49.58
Total, economic costs	.00	.00	.00	.00	.00	.00	580.76	593.42	605.39	575.57	574.93	574.85	592.09
Residual returns to management and risk	.00	.00	.00	.00	.00	.00	68.54	111.54	115.94	92.45	100.08	157.03	235.58
Season-average price (dollars/ton)	.00	.00	.00	.00	.00	.00	29.37	35.40	37.00	33.90	33.80	35.90	37.50
Yield (net tons/planted acre)	.00	.00	.00	.00	.00	.00	21.99	19.83	19.41	19.68	19.91	20.39	22.03

Table 50--Sugarbeet production costs, Michigan and Ohio, 1975-87

Item	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Dollars per planted acre													
Gross value of production:													
Primary crop	.00	.00	.00	.00	.00	.00	525.19	679.48	660.96	628.03	553.90	510.90	597.14
Secondary crop	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Total	.00	.00	.00	.00	.00	.00	525.19	679.48	660.96	628.03	553.90	510.90	597.14
Cash expenses:													
Seed	.00	.00	.00	.00	.00	.00	6.48	10.35	12.98	11.45	13.40	14.07	14.07
Fertilizer	.00	.00	.00	.00	.00	.00	85.25	79.08	73.96	79.63	71.39	64.71	63.25
Chemicals	.00	.00	.00	.00	.00	.00	31.23	33.49	35.17	35.84	35.84	35.56	34.72
Custom operations	.00	.00	.00	.00	.00	.00	41.39	36.00	41.16	12.07	11.44	11.44	11.59
Fuel and lubrication	.00	.00	.00	.00	.00	.00	27.90	28.26	24.71	20.10	25.36	23.43	23.77
Repairs	.00	.00	.00	.00	.00	.00	23.38	26.49	26.01	25.27	28.46	28.46	28.65
Hired labor	.00	.00	.00	.00	.00	.00	19.30	18.78	18.60	13.37	14.17	14.82	15.70
Miscellaneous	.00	.00	.00	.00	.00	.00	2.30	2.30	2.30	2.30	2.27	2.14	2.17
Total, variable cash expenses	.00	.00	.00	.00	.00	.00	237.23	234.75	234.89	200.03	202.33	194.63	193.92
General farm overhead	.00	.00	.00	.00	.00	.00	33.89	51.44	67.81	18.90	16.47	15.19	17.87
Taxes and insurance	.00	.00	.00	.00	.00	.00	21.69	26.14	29.40	23.85	32.03	31.41	32.12
Interest	.00	.00	.00	.00	.00	.00	104.01	62.17	23.20	75.68	61.94	51.13	58.08
Total, fixed cash expenses	.00	.00	.00	.00	.00	.00	159.59	139.75	120.41	118.43	110.44	97.73	108.07
Total, cash expenses	.00	.00	.00	.00	.00	.00	396.82	374.50	355.30	318.46	312.77	292.36	301.99
Gross value less cash expenses	.00	.00	.00	.00	.00	.00	128.37	304.98	305.66	309.57	241.13	218.54	295.15
Capital replacement	.00	.00	.00	.00	.00	.00	35.58	40.57	40.61	41.75	46.43	46.43	46.73
Gross value less cash expenses and replacement	.00	.00	.00	.00	.00	.00	92.79	264.41	265.05	267.82	194.70	172.11	248.42
Economic (full ownership) costs:													
Variable cash expenses	.00	.00	.00	.00	.00	.00	237.23	234.75	234.89	200.03	202.33	194.63	193.92
General farm overhead	.00	.00	.00	.00	.00	.00	33.89	51.44	67.81	18.90	16.47	15.19	17.87
Taxes and insurance	.00	.00	.00	.00	.00	.00	21.69	26.14	29.40	23.85	32.03	31.41	32.12
Capital replacement	.00	.00	.00	.00	.00	.00	35.58	40.57	40.61	41.75	46.43	46.43	46.73
Allocated returns to owned inputs:													
Return to operating capital	.00	.00	.00	.00	.00	.00	16.23	12.77	10.24	11.75	5.75	3.91	4.22
Return to other nonland capital	.00	.00	.00	.00	.00	.00	15.48	17.80	17.51	9.26	9.93	10.21	11.80
Net land return	.00	.00	.00	.00	.00	.00	57.13	94.59	78.53	88.13	75.29	65.29	63.15
Unpaid labor	.00	.00	.00	.00	.00	.00	26.08	25.83	25.59	28.40	30.12	31.49	33.36
Total, economic costs	.00	.00	.00	.00	.00	.00	443.31	503.89	504.58	422.07	418.35	398.56	403.17
Residual returns to management and risk	.00	.00	.00	.00	.00	.00	81.88	175.59	156.38	205.96	135.55	112.34	193.97
Season-average price (dollars/ton)	.00	.00	.00	.00	.00	.00	26.82	35.80	36.00	32.95	29.40	30.00	30.25
Yield (net tons/planted acre)	.00	.00	.00	.00	.00	.00	19.58	18.98	18.36	19.06	18.84	17.03	19.74

Table 51--Sugarbeet production costs, Minnesota and eastern North Dakota, 1975-87

Item	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Dollars per planted acre													
Gross value of production:													
Primary crop	.00	.00	.00	.00	.00	.00	347.53	626.78	615.61	587.52	634.73	659.74	838.88
Secondary crop	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Total	.00	.00	.00	.00	.00	.00	347.53	626.78	615.61	587.52	634.73	659.74	838.88
Cash expenses:													
Seed	.00	.00	.00	.00	.00	.00	23.54	18.98	21.60	22.30	23.67	23.67	23.67
Fertilizer	.00	.00	.00	.00	.00	.00	38.91	38.00	35.68	32.67	29.37	27.00	25.29
Chemicals	.00	.00	.00	.00	.00	.00	42.98	46.03	48.49	52.05	52.05	51.64	50.43
Custom operations	.00	.00	.00	.00	.00	.00	8.65	9.35	9.24	11.11	10.96	10.96	10.67
Fuel and lubrication	.00	.00	.00	.00	.00	.00	30.84	30.40	26.86	22.25	25.63	23.06	23.08
Repairs	.00	.00	.00	.00	.00	.00	26.19	29.35	30.94	32.74	32.36	32.35	32.57
Hired labor	.00	.00	.00	.00	.00	.00	32.47	34.63	33.77	27.47	28.45	29.80	30.36
Miscellaneous	.00	.00	.00	.00	.00	.00	.49	.49	.43	.23	.23	.22	.22
Total, variable cash expenses	.00	.00	.00	.00	.00	.00	204.07	207.23	207.01	200.82	202.72	198.70	196.29
General farm overhead	.00	.00	.00	.00	.00	.00	22.58	41.81	51.71	31.78	33.92	35.26	45.13
Taxes and insurance	.00	.00	.00	.00	.00	.00	12.59	14.05	14.95	15.64	16.09	16.81	17.43
Interest	.00	.00	.00	.00	.00	.00	60.65	72.20	45.99	68.74	68.92	64.11	79.22
Total, fixed cash expenses	.00	.00	.00	.00	.00	.00	95.82	128.06	112.65	116.16	118.93	116.18	141.78
Total, cash expenses	.00	.00	.00	.00	.00	.00	299.89	335.29	319.66	316.98	321.65	314.88	338.07
Gross value less cash expenses	.00	.00	.00	.00	.00	.00	47.64	291.49	295.95	270.54	313.08	344.86	500.81
Capital replacement	.00	.00	.00	.00	.00	.00	45.05	50.99	54.02	58.17	59.03	59.03	59.43
Gross value less cash expenses and replacement	.00	.00	.00	.00	.00	.00	2.59	240.50	241.93	212.37	254.05	285.83	441.38
Economic (full ownership) costs:													
Variable cash expenses	.00	.00	.00	.00	.00	.00	204.07	207.23	207.01	200.82	202.72	198.70	196.29
General farm overhead	.00	.00	.00	.00	.00	.00	22.58	41.81	51.71	31.78	33.92	35.26	45.13
Taxes and insurance	.00	.00	.00	.00	.00	.00	12.59	14.05	14.95	15.64	16.09	16.81	17.43
Capital replacement	.00	.00	.00	.00	.00	.00	45.05	50.99	54.02	58.17	59.03	59.03	59.43
Allocated returns to owned inputs:													
Return to operating capital	.00	.00	.00	.00	.00	.00	13.37	11.38	8.67	9.45	5.52	3.86	4.13
Return to other nonland capital	.00	.00	.00	.00	.00	.00	19.85	22.62	23.53	12.87	12.46	12.80	14.80
Net land return	.00	.00	.00	.00	.00	.00	42.97	62.00	58.86	74.64	73.18	79.12	85.77
Unpaid labor	.00	.00	.00	.00	.00	.00	21.73	23.02	22.45	29.75	30.82	32.28	32.88
Total, economic costs	.00	.00	.00	.00	.00	.00	382.21	433.10	441.20	433.12	433.74	437.86	455.86
Residual returns to management and risk	.00	.00	.00	.00	.00	.00	-34.68	193.68	174.41	154.40	200.99	221.88	383.02
Season-average price (dollars/ton)	.00	.00	.00	.00	.00	.00	19.86	34.86	35.40	36.00	35.80	39.20	42.80
Yield (net tons/planted acre)	.00	.00	.00	.00	.00	.00	17.50	17.98	17.39	16.32	17.73	16.83	19.60

Table 52--Sugarbeet production costs, Colorado, Nebraska, and southeastern Wyoming, 1975-87

Item	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Dollars per planted acre													
Gross value of production:													
Primary crop	.00	.00	.00	.00	.00	.00	766.72	633.58	527.94	459.01	595.53	757.66	684.28
Secondary crop	.00	.00	.00	.00	.00	.00	7.77	7.03	7.53	2.68	2.30	2.14	2.04
Total	.00	.00	.00	.00	.00	.00	774.49	640.61	535.47	461.69	597.83	759.80	686.32
Cash expenses:													
Seed	.00	.00	.00	.00	.00	.00	18.85	18.64	19.09	23.29	29.11	29.11	30.97
Fertilizer	.00	.00	.00	.00	.00	.00	46.92	47.34	43.64	38.17	35.75	29.91	28.90
Chemicals	.00	.00	.00	.00	.00	.00	39.09	41.77	44.69	25.75	26.86	26.66	26.02
Custom operations	.00	.00	.00	.00	.00	.00	19.35	17.44	15.02	17.21	16.98	16.98	16.53
Fuel and lubrication	.00	.00	.00	.00	.00	.00	57.06	54.93	59.07	53.51	58.96	53.64	53.83
Repairs	.00	.00	.00	.00	.00	.00	32.86	32.33	36.44	39.66	39.78	39.60	39.88
Hired labor	.00	.00	.00	.00	.00	.00	59.17	67.28	71.13	53.38	54.45	61.28	54.76
Purchased irrigation water	.00	.00	.00	.00	.00	.00	6.35	6.86	7.51	6.34	6.29	5.92	6.00
Miscellaneous	.00	.00	.00	.00	.00	.00	.92	.78	.89	.12	.12	.11	.11
Total, variable cash expenses	.00	.00	.00	.00	.00	.00	280.57	287.37	297.48	257.43	268.30	263.21	257.00
General farm overhead	.00	.00	.00	.00	.00	.00	47.39	32.44	30.15	38.69	49.49	62.89	57.19
Taxes and insurance	.00	.00	.00	.00	.00	.00	16.73	16.69	21.35	14.83	15.91	16.42	17.02
Interest	.00	.00	.00	.00	.00	.00	125.16	71.46	68.27	71.79	86.27	98.13	86.14
Total, fixed cash expenses	.00	.00	.00	.00	.00	.00	189.28	120.59	119.77	125.31	151.67	177.44	160.35
Total, cash expenses	.00	.00	.00	.00	.00	.00	469.85	407.96	417.25	382.74	419.97	440.65	417.35
Gross value less cash expenses	.00	.00	.00	.00	.00	.00	304.64	232.65	118.22	78.95	177.86	319.15	268.97
Capital replacement	.00	.00	.00	.00	.00	.00	59.18	57.55	63.01	57.44	68.94	67.30	69.28
Gross value less cash expenses and replacement	.00	.00	.00	.00	.00	.00	245.46	175.10	55.21	21.51	108.92	251.85	199.69
Economic (full ownership) costs:													
Variable cash expenses	.00	.00	.00	.00	.00	.00	280.57	287.37	297.48	257.43	268.30	263.21	257.00
General farm overhead	.00	.00	.00	.00	.00	.00	47.39	32.44	30.15	38.69	49.49	62.89	57.19
Taxes and insurance	.00	.00	.00	.00	.00	.00	16.73	16.69	21.35	14.83	15.91	16.42	17.02
Capital replacement	.00	.00	.00	.00	.00	.00	59.18	57.55	63.01	57.44	68.94	67.30	69.28
Allocated returns to owned inputs:													
Return to operating capital	.00	.00	.00	.00	.00	.00	17.94	14.75	12.36	13.08	8.33	5.91	6.13
Return to other nonland capital	.00	.00	.00	.00	.00	.00	23.36	23.17	25.05	14.04	13.67	14.02	16.22
Net land return	.00	.00	.00	.00	.00	.00	62.21	109.23	79.82	79.22	125.84	155.73	139.88
Unpaid labor	.00	.00	.00	.00	.00	.00	42.20	45.68	48.30	70.75	72.19	81.23	72.60
Total, economic costs	.00	.00	.00	.00	.00	.00	549.58	586.88	577.52	545.48	622.67	666.71	635.32
Residual returns to management and risk	.00	.00	.00	.00	.00	.00	224.91	53.73	-42.05	-83.79	-24.84	93.09	51.00
Season-average price (dollars/ton)	.00	.00	.00	.00	.00	.00	34.06	35.16	32.29	23.30	28.70	32.70	35.40
Yield (net tons/planted acre)	.00	.00	.00	.00	.00	.00	22.51	18.02	16.35	19.70	20.75	23.17	19.33

Table 53--Sugarbeet production costs, Texas and New Mexico, 1975-87

Item	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Dollars per planted acre													
Gross value of production:													
Primary crop	.00	.00	.00	.00	.00	.00	673.79	663.72	656.17	698.53	647.58	535.68	599.04
Secondary crop	.00	.00	.00	.00	.00	.00	14.56	13.16	14.10	2.11	1.81	1.69	1.61
Total	.00	.00	.00	.00	.00	.00	688.35	676.88	670.27	700.64	649.39	537.37	600.65
Cash expenses:													
Seed	.00	.00	.00	.00	.00	.00	19.22	7.70	12.70	23.68	23.68	23.68	25.57
Fertilizer	.00	.00	.00	.00	.00	.00	31.35	29.30	27.58	28.86	27.96	24.99	23.22
Chemicals	.00	.00	.00	.00	.00	.00	96.03	103.00	113.56	111.16	108.16	107.31	104.78
Custom operations	.00	.00	.00	.00	.00	.00	78.52	65.48	67.17	75.12	77.10	77.10	75.04
Fuel and lubrication	.00	.00	.00	.00	.00	.00	83.29	91.15	87.32	112.95	116.77	100.11	96.06
Repairs	.00	.00	.00	.00	.00	.00	47.80	46.82	48.54	49.84	49.19	49.19	49.52
Hired labor	.00	.00	.00	.00	.00	.00	42.33	45.19	43.97	42.77	49.64	51.61	53.38
Total, variable cash expenses	.00	.00	.00	.00	.00	.00	398.54	388.64	400.84	444.38	452.50	433.99	427.57
General farm overhead	.00	.00	.00	.00	.00	.00	52.91	48.85	29.42	31.46	28.81	23.83	26.82
Taxes and insurance	.00	.00	.00	.00	.00	.00	10.37	9.73	10.40	10.03	10.74	11.37	11.76
Interest	.00	.00	.00	.00	.00	.00	231.74	48.85	48.19	71.82	61.78	45.75	49.69
Total, fixed cash expenses	.00	.00	.00	.00	.00	.00	295.02	107.43	88.01	113.31	101.33	80.95	88.27
Total, cash expenses	.00	.00	.00	.00	.00	.00	693.56	496.07	488.85	557.69	553.83	514.94	515.84
Gross value less cash expenses	.00	.00	.00	.00	.00	.00	-5.21	180.81	181.42	142.95	95.56	22.43	84.81
Capital replacement	.00	.00	.00	.00	.00	.00	63.69	60.22	61.30	61.44	62.21	62.21	62.62
Gross value less cash expenses and replacement	.00	.00	.00	.00	.00	.00	-68.90	120.59	120.12	81.51	33.35	-39.78	22.19
Economic (full ownership) costs:													
Variable cash expenses	.00	.00	.00	.00	.00	.00	398.54	388.64	400.84	444.38	452.50	433.99	427.57
General farm overhead	.00	.00	.00	.00	.00	.00	52.91	48.85	29.42	31.46	28.81	23.83	26.82
Taxes and insurance	.00	.00	.00	.00	.00	.00	10.37	9.73	10.40	10.03	10.74	11.37	11.76
Capital replacement	.00	.00	.00	.00	.00	.00	63.69	60.22	61.30	61.44	62.21	62.21	62.62
Allocated returns to owned inputs:													
Return to operating capital	.00	.00	.00	.00	.00	.00	28.05	22.60	17.71	21.83	13.88	9.49	10.20
Return to other nonland capital	.00	.00	.00	.00	.00	.00	21.85	21.78	22.15	11.63	11.17	11.48	13.27
Net land return	.00	.00	.00	.00	.00	.00	29.48	74.58	72.61	79.91	72.23	49.57	61.71
Unpaid labor	.00	.00	.00	.00	.00	.00	41.26	43.73	42.56	41.09	47.69	49.59	51.29
Total, economic costs	.00	.00	.00	.00	.00	.00	646.15	670.13	656.99	701.77	699.23	651.53	665.24
Residual returns to management and risk	.00	.00	.00	.00	.00	.00	42.20	6.75	13.28	-1.13	-49.84	-114.16	-64.59
Season-average price (dollars/ton)	.00	.00	.00	.00	.00	.00	30.72	36.69	35.70	33.20	29.40	24.00	32.00
Yield (net tons/planted acre)	.00	.00	.00	.00	.00	.00	21.93	18.09	18.38	21.04	22.03	22.32	18.72

Table 54--Sugarbeet production costs, Montana, northwestern Wyoming, and northwestern North Dakota, 1975-87

Item	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Dollars per planted acre													
Gross value of production:													
Primary crop	.00	.00	.00	.00	.00	.00	807.19	853.87	713.70	628.70	687.72	781.26	896.53
Secondary crop	.00	.00	.00	.00	.00	.00	17.86	16.14	17.29	2.13	1.83	1.70	1.63
Total	.00	.00	.00	.00	.00	.00	825.05	870.01	730.99	630.83	689.55	782.96	898.16
Cash expenses:													
Seed	.00	.00	.00	.00	.00	.00	25.00	17.47	20.43	36.96	28.46	28.46	30.47
Fertilizer	.00	.00	.00	.00	.00	.00	78.83	77.62	73.79	58.70	59.06	45.64	44.86
Chemicals	.00	.00	.00	.00	.00	.00	31.22	33.45	35.13	28.86	28.86	28.63	27.96
Custom operations	.00	.00	.00	.00	.00	.00	6.53	6.61	6.78	24.10	23.78	23.78	23.15
Fuel and lubrication	.00	.00	.00	.00	.00	.00	43.66	41.51	37.41	30.44	33.97	32.14	32.22
Repairs	.00	.00	.00	.00	.00	.00	31.59	33.94	34.27	34.76	34.70	34.70	34.93
Hired labor	.00	.00	.00	.00	.00	.00	75.86	87.42	96.60	49.38	52.52	57.96	54.51
Purchased irrigation water	.00	.00	.00	.00	.00	.00	12.50	13.10	22.04	11.97	11.87	10.75	10.90
Miscellaneous	.00	.00	.00	.00	.00	.00	12.86	16.15	14.74	.19	.19	.18	.18
Total, variable cash expenses	.00	.00	.00	.00	.00	.00	318.05	327.27	341.19	275.36	273.41	262.24	259.18
General farm overhead	.00	.00	.00	.00	.00	.00	48.51	45.17	32.97	39.36	42.50	48.26	55.73
Taxes and insurance	.00	.00	.00	.00	.00	.00	14.02	14.15	14.30	11.20	12.31	13.12	13.66
Interest	.00	.00	.00	.00	.00	.00	115.60	68.90	56.72	74.25	75.32	76.54	85.33
Total, fixed cash expenses	.00	.00	.00	.00	.00	.00	178.13	128.22	103.99	124.81	130.13	137.92	154.72
Total, cash expenses	.00	.00	.00	.00	.00	.00	496.18	455.49	445.18	400.17	403.54	400.16	413.90
Gross value less cash expenses	.00	.00	.00	.00	.00	.00	328.87	414.52	285.81	230.66	286.01	382.80	484.26
Capital replacement	.00	.00	.00	.00	.00	.00	51.63	55.75	56.49	57.27	58.57	58.57	58.96
Gross value less cash expenses and replacement	.00	.00	.00	.00	.00	.00	277.24	358.77	229.32	173.39	227.44	324.23	425.30
Economic (full ownership) costs:													
Variable cash expenses	.00	.00	.00	.00	.00	.00	318.05	327.27	341.19	275.36	273.41	262.24	259.18
General farm overhead	.00	.00	.00	.00	.00	.00	48.51	45.17	32.97	39.36	42.50	48.26	55.73
Taxes and insurance	.00	.00	.00	.00	.00	.00	14.02	14.15	14.30	11.20	12.31	13.12	13.66
Capital replacement	.00	.00	.00	.00	.00	.00	51.63	55.75	56.49	57.27	58.57	58.57	58.96
Allocated returns to owned inputs:													
Return to operating capital	.00	.00	.00	.00	.00	.00	18.74	16.09	13.56	13.97	8.30	5.75	6.09
Return to other nonland capital	.00	.00	.00	.00	.00	.00	20.99	22.96	23.03	12.06	11.74	12.07	13.95
Net land return	.00	.00	.00	.00	.00	.00	51.94	141.34	106.36	111.22	128.16	140.77	163.83
Unpaid labor	.00	.00	.00	.00	.00	.00	32.46	37.13	41.02	71.06	75.57	83.41	78.44
Total, economic costs	.00	.00	.00	.00	.00	.00	556.34	659.86	628.92	591.50	610.56	624.19	649.84
Residual returns to management and risk	.00	.00	.00	.00	.00	.00	268.71	210.15	102.07	39.33	78.99	158.77	248.32
Season-average price (dollars/ton)	.00	.00	.00	.00	.00	.00	37.58	41.25	36.21	35.40	35.80	38.60	40.90
Yield (net tons/planted acre)	.00	.00	.00	.00	.00	.00	21.48	20.71	19.71	17.76	19.21	20.24	21.92

Table 55--Sugarbeet production costs, eastern Idaho, 1975-87

Item	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Dollars per planted acre													
Gross value of production:													
Primary crop	.00	.00	.00	.00	.00	.00	784.55	806.87	885.74	762.40	733.83	836.47	938.96
Secondary crop	.00	.00	.00	.00	.00	.00	1.42	1.28	1.38	.35	.30	.28	.27
Total	.00	.00	.00	.00	.00	.00	785.97	808.15	887.12	762.75	734.13	836.75	939.23
Cash expenses:													
Seed	.00	.00	.00	.00	.00	.00	25.46	16.00	17.50	21.55	21.55	21.87	21.87
Fertilizer	.00	.00	.00	.00	.00	.00	79.41	82.43	76.51	64.39	62.97	55.58	53.81
Chemicals	.00	.00	.00	.00	.00	.00	34.29	36.75	38.59	13.49	13.49	13.38	13.07
Custom operations	.00	.00	.00	.00	.00	.00	22.05	21.99	22.27	18.19	18.44	18.44	17.47
Fuel and lubrication	.00	.00	.00	.00	.00	.00	74.39	70.97	86.87	83.74	82.84	85.88	84.95
Repairs	.00	.00	.00	.00	.00	.00	38.06	39.12	45.30	46.42	46.04	46.04	46.35
Hired labor	.00	.00	.00	.00	.00	.00	63.41	57.30	69.46	13.88	15.74	17.57	16.50
Purchased irrigation water	.00	.00	.00	.00	.00	.00	14.57	15.21	15.50	10.04	9.96	9.38	9.51
Miscellaneous	.00	.00	.00	.00	.00	.00	2.96	2.81	2.60	.00	.00	.00	.00
Total, variable cash expenses	.00	.00	.00	.00	.00	.00	354.60	342.58	374.60	271.70	271.03	268.14	263.53
General farm overhead	.00	.00	.00	.00	.00	.00	47.22	43.17	66.71	87.33	83.03	94.64	106.93
Taxes and insurance	.00	.00	.00	.00	.00	.00	16.41	16.59	16.20	14.74	15.97	17.01	17.62
Interest	.00	.00	.00	.00	.00	.00	113.41	56.16	48.88	88.40	78.96	80.55	87.86
Total, fixed cash expenses	.00	.00	.00	.00	.00	.00	177.04	115.92	131.79	190.47	177.96	192.20	212.41
Total, cash expenses	.00	.00	.00	.00	.00	.00	531.64	458.50	506.39	462.17	448.99	460.34	475.94
5 Gross value less cash expenses	.00	.00	.00	.00	.00	.00	254.33	349.65	380.73	300.58	285.14	376.41	463.29
∞ Capital replacement	.00	.00	.00	.00	.00	.00	62.87	64.94	73.07	74.94	75.76	75.76	76.27
Gross value less cash expenses and replacement	.00	.00	.00	.00	.00	.00	191.46	284.71	307.66	225.64	209.38	300.65	387.02
Economic (full ownership) costs:													
Variable cash expenses	.00	.00	.00	.00	.00	.00	354.60	342.58	374.60	271.70	271.03	268.14	263.53
General farm overhead	.00	.00	.00	.00	.00	.00	47.22	43.17	66.71	87.33	83.03	94.64	106.93
Taxes and insurance	.00	.00	.00	.00	.00	.00	16.41	16.59	16.20	14.74	15.97	17.01	17.62
Capital replacement	.00	.00	.00	.00	.00	.00	62.87	64.94	73.07	74.94	75.76	75.76	76.27
Allocated returns to owned inputs:													
Return to operating capital	.00	.00	.00	.00	.00	.00	21.02	17.06	13.96	13.21	8.93	6.39	6.71
Return to other nonland capital	.00	.00	.00	.00	.00	.00	24.68	25.65	28.67	15.21	14.67	15.08	17.44
Net land return	.00	.00	.00	.00	.00	.00	70.33	103.47	95.99	79.65	76.04	86.83	108.65
Unpaid labor	.00	.00	.00	.00	.00	.00	36.62	32.26	39.11	79.57	89.20	99.54	93.51
Total, economic costs	.00	.00	.00	.00	.00	.00	633.75	645.72	708.31	636.35	634.63	663.39	690.66
Residual returns to management and risk	.00	.00	.00	.00	.00	.00	152.22	162.43	178.81	126.40	99.50	173.36	248.57
Season-average price (dollars/ton)	.00	.00	.00	.00	.00	.00	34.14	37.20	40.50	37.10	36.60	36.40	38.80
Yield (net tons/planted acre)	.00	.00	.00	.00	.00	.00	22.98	21.69	21.87	20.55	20.05	22.98	24.20

Table 56--Sugarbeet production costs, western Idaho and Oregon, 1975-87

Item	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Dollars per planted acre													
Gross value of production:													
Primary crop	.00	.00	.00	.00	.00	.00	1006.43	897.84	1110.67	952.02	930.96	1046.18	1030.68
Secondary crop	.00	.00	.00	.00	.00	.00	.91	.82	.88	1.77	1.52	1.42	1.35
Total	.00	.00	.00	.00	.00	.00	1007.34	898.66	1111.55	953.79	932.48	1047.60	1032.03
Cash expenses:													
Seed	.00	.00	.00	.00	.00	.00	23.98	24.75	27.50	27.17	27.17	27.58	27.58
Fertilizer	.00	.00	.00	.00	.00	.00	100.08	102.83	97.71	97.06	93.29	82.17	79.58
Chemicals	.00	.00	.00	.00	.00	.00	53.35	57.20	60.06	61.07	61.07	60.59	59.16
Custom operations	.00	.00	.00	.00	.00	.00	32.09	31.86	34.31	30.50	35.31	35.29	34.37
Fuel and lubrication	.00	.00	.00	.00	.00	.00	49.43	45.98	45.16	37.99	41.29	42.26	42.02
Repairs	.00	.00	.00	.00	.00	.00	32.70	33.70	36.29	36.64	36.26	36.25	36.50
Hired labor	.00	.00	.00	.00	.00	.00	70.77	66.10	74.97	80.49	88.22	95.96	93.95
Purchased irrigation water	.00	.00	.00	.00	.00	.00	24.56	25.66	26.16	9.75	9.67	9.11	9.23
Miscellaneous	.00	.00	.00	.00	.00	.00	.06	.06	.06	.06	.06	.06	.06
Total, variable cash expenses	.00	.00	.00	.00	.00	.00	387.02	388.14	402.22	380.73	392.34	389.27	382.45
General farm overhead	.00	.00	.00	.00	.00	.00	63.18	48.03	67.14	85.84	82.90	93.13	92.36
Taxes and insurance	.00	.00	.00	.00	.00	.00	18.90	17.93	17.27	13.18	14.31	15.25	15.81
Interest	.00	.00	.00	.00	.00	.00	188.63	66.35	111.04	160.05	145.20	146.00	139.78
Total, fixed cash expenses	.00	.00	.00	.00	.00	.00	270.71	132.31	195.45	259.07	242.41	254.38	247.95
Total, cash expenses	.00	.00	.00	.00	.00	.00	657.73	520.45	597.67	639.80	634.75	643.65	630.40
Gross value less cash expenses	.00	.00	.00	.00	.00	.00	349.61	378.21	513.88	313.99	297.73	403.95	401.63
Capital replacement	.00	.00	.00	.00	.00	.00	52.60	54.27	58.19	58.87	59.90	59.89	60.30
Gross value less cash expenses and replacement	.00	.00	.00	.00	.00	.00	297.01	323.94	455.69	255.12	237.83	344.06	341.33
Economic (full ownership) costs:													
Variable cash expenses	.00	.00	.00	.00	.00	.00	387.02	388.14	402.22	380.73	392.34	389.27	382.45
General farm overhead	.00	.00	.00	.00	.00	.00	63.18	48.03	67.14	85.84	82.90	93.13	92.36
Taxes and insurance	.00	.00	.00	.00	.00	.00	18.90	17.93	17.27	13.18	14.31	15.25	15.81
Capital replacement	.00	.00	.00	.00	.00	.00	52.60	54.27	58.19	58.87	59.90	59.89	60.30
Allocated returns to owned inputs:													
Return to operating capital	.00	.00	.00	.00	.00	.00	25.73	21.08	16.46	16.89	11.27	7.90	8.39
Return to other nonland capital	.00	.00	.00	.00	.00	.00	20.78	21.76	23.31	12.15	11.76	12.09	13.98
Net land return	.00	.00	.00	.00	.00	.00	99.77	160.78	186.33	212.99	208.24	234.43	233.31
Unpaid labor	.00	.00	.00	.00	.00	.00	48.77	44.82	50.84	32.88	36.04	39.20	38.38
Total, economic costs	.00	.00	.00	.00	.00	.00	716.75	756.81	821.76	813.53	816.76	851.16	844.98
Residual returns to management and risk	.00	.00	.00	.00	.00	.00	290.59	141.85	289.79	140.26	115.72	196.44	187.05
Season-average price (dollars/ton)	.00	.00	.00	.00	.00	.00	35.87	37.07	40.58	36.90	36.00	36.10	36.00
Yield (net tons/planted acre)	.00	.00	.00	.00	.00	.00	28.06	24.22	27.37	25.80	25.86	28.98	28.63

Table 57--Sugarbeet production costs, California, 1975-87

Item	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Dollars per planted acre													
Gross value of production:													
Primary crop	.00	.00	.00	.00	.00	.00	844.30	758.12	902.09	845.21	741.11	889.29	918.66
Secondary crop	.00	.00	.00	.00	.00	.00	2.71	2.45	2.62	3.63	3.12	2.90	2.77
Total	.00	.00	.00	.00	.00	.00	847.01	760.57	904.71	848.84	744.23	892.19	921.43
Cash expenses:													
Seed	.00	.00	.00	.00	.00	.00	13.66	7.35	14.28	17.77	18.84	20.54	21.94
Fertilizer	.00	.00	.00	.00	.00	.00	62.64	65.92	62.54	58.84	45.40	42.47	38.54
Chemicals	.00	.00	.00	.00	.00	.00	82.56	89.73	97.74	44.62	44.62	44.27	43.23
Custom operations	.00	.00	.00	.00	.00	.00	119.61	115.76	118.06	123.24	120.93	120.94	117.71
Fuel and lubrication	.00	.00	.00	.00	.00	.00	63.97	68.11	67.04	60.77	70.85	67.14	65.24
Repairs	.00	.00	.00	.00	.00	.00	31.41	31.72	34.02	34.86	34.42	34.42	34.65
Hired labor	.00	.00	.00	.00	.00	.00	82.64	88.99	89.02	96.97	101.84	104.97	109.84
Purchased irrigation water	.00	.00	.00	.00	.00	.00	32.85	34.94	35.00	24.96	24.76	23.31	23.64
Miscellaneous	.00	.00	.00	.00	.00	.00	5.18	4.96	5.30	.00	.00	.00	.00
Total, variable cash expenses	.00	.00	.00	.00	.00	.00	494.52	507.48	523.00	462.03	461.66	458.06	454.79
General farm overhead	.00	.00	.00	.00	.00	.00	60.45	40.56	49.85	45.50	39.40	47.24	49.11
Taxes and insurance	.00	.00	.00	.00	.00	.00	25.60	22.56	21.16	17.39	17.71	18.35	18.89
Interest	.00	.00	.00	.00	.00	.00	139.66	71.04	84.86	69.52	56.56	60.69	60.91
Total, fixed cash expenses	.00	.00	.00	.00	.00	.00	225.71	134.16	155.87	132.41	113.67	126.28	128.91
Total, cash expenses	.00	.00	.00	.00	.00	.00	720.23	641.64	678.87	594.44	575.33	584.34	583.70
Gross value less cash expenses	.00	.00	.00	.00	.00	.00	126.78	118.93	225.84	254.40	168.90	307.85	337.73
Capital replacement	.00	.00	.00	.00	.00	.00	54.63	56.40	60.32	60.97	61.29	61.29	61.69
Gross value less cash expenses and replacement	.00	.00	.00	.00	.00	.00	72.15	62.53	165.52	193.43	107.61	246.56	276.04
Economic (full ownership) costs:													
Variable cash expenses	.00	.00	.00	.00	.00	.00	494.52	507.48	523.00	462.03	461.66	458.06	454.79
General farm overhead	.00	.00	.00	.00	.00	.00	60.45	40.56	49.85	45.50	39.40	47.24	49.11
Taxes and insurance	.00	.00	.00	.00	.00	.00	25.60	22.56	21.16	17.39	17.71	18.35	18.89
Capital replacement	.00	.00	.00	.00	.00	.00	54.63	56.40	60.32	60.97	61.29	61.29	61.69
Allocated returns to owned inputs:													
Return to operating capital	.00	.00	.00	.00	.00	.00	40.84	34.00	27.27	26.84	15.98	11.19	12.29
Return to other nonland capital	.00	.00	.00	.00	.00	.00	22.30	22.98	24.38	12.73	12.15	12.49	14.44
Net land return	.00	.00	.00	.00	.00	.00	140.88	124.90	146.88	141.00	129.89	134.74	148.80
Unpaid labor	.00	.00	.00	.00	.00	.00	49.90	51.47	51.48	49.96	52.47	54.08	56.59
Total, economic costs	.00	.00	.00	.00	.00	.00	889.12	860.35	904.34	816.42	790.55	797.44	816.60
Residual returns to management and risk	.00	.00	.00	.00	.00	.00	-42.11	-99.78	.37	32.42	-46.32	94.75	104.83
Season-average price (dollars/ton)	.00	.00	.00	.00	.00	.00	31.07	33.12	40.20	35.10	33.10	35.70	33.70
Yield (net tons/planted acre)	.00	.00	.00	.00	.00	.00	27.17	22.89	22.44	24.08	22.39	24.91	27.26

Table 58--Sugarcane production costs, U.S., 1975-87

Item	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Dollars per planted acre													
Gross value of production:													
Primary crop	.00	.00	.00	.00	.00	.00	910.71	1049.40	1036.94	1051.86	990.57	1053.78	1017.77
Hauling allowance	.00	.00	.00	.00	.00	.00	11.97	12.03	13.26	6.96	8.11	9.76	8.37
Total	.00	.00	.00	.00	.00	.00	922.68	1061.43	1050.20	1058.82	998.68	1063.54	1026.14
Cash expenses:													
Seed	.00	.00	.00	.00	.00	.00	1.35	1.79	1.12	2.62	2.49	2.33	2.45
Fertilizer	.00	.00	.00	.00	.00	.00	87.00	86.36	86.29	69.30	63.15	58.03	53.63
Chemicals	.00	.00	.00	.00	.00	.00	50.40	53.33	55.05	54.39	54.35	53.88	52.87
Custom operations	.00	.00	.00	.00	.00	.00	32.65	33.62	32.91	31.71	31.78	30.14	28.17
Fuel and lubrication	.00	.00	.00	.00	.00	.00	72.50	70.99	62.32	45.65	40.33	38.94	33.84
Repairs	.00	.00	.00	.00	.00	.00	132.65	134.05	131.20	114.07	113.35	107.33	102.44
Hired labor	.00	.00	.00	.00	.00	.00	295.41	343.20	342.45	366.07	344.70	340.13	331.75
Purchased irrigation water	.00	.00	.00	.00	.00	.00	2.22	2.22	2.24	2.28	1.99	1.90	2.03
Miscellaneous	.00	.00	.00	.00	.00	.00	10.69	11.52	12.39	26.34	20.49	20.21	19.46
Total, variable cash expenses	.00	.00	.00	.00	.00	.00	684.87	737.08	725.97	712.43	672.63	652.89	626.64
General farm overhead	.00	.00	.00	.00	.00	.00	74.17	75.69	76.63	78.35	74.43	75.64	74.19
Taxes and insurance	.00	.00	.00	.00	.00	.00	26.39	28.07	28.60	28.95	28.88	29.62	30.11
Interest	.00	.00	.00	.00	.00	.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total, fixed cash expenses	.00	.00	.00	.00	.00	.00	100.56	103.76	105.23	107.30	103.31	105.26	104.30
Total, cash expenses	.00	.00	.00	.00	.00	.00	785.43	840.84	831.20	819.73	775.94	758.15	730.94
Gross value less cash expenses	.00	.00	.00	.00	.00	.00	137.25	220.59	219.00	239.09	222.74	305.39	295.20
Capital replacement	.00	.00	.00	.00	.00	.00	61.25	65.79	68.31	77.81	76.59	76.68	77.91
Gross value less cash expenses and replacement	.00	.00	.00	.00	.00	.00	76.00	154.80	150.69	161.28	146.15	228.71	217.29
Economic (full ownership) costs:													
Variable cash expenses	.00	.00	.00	.00	.00	.00	684.87	737.08	725.97	712.43	672.63	652.89	626.64
General farm overhead	.00	.00	.00	.00	.00	.00	74.17	75.69	76.63	78.35	74.43	75.64	74.19
Taxes and insurance	.00	.00	.00	.00	.00	.00	26.39	28.07	28.60	28.95	28.88	29.62	30.11
Capital replacement	.00	.00	.00	.00	.00	.00	61.25	65.79	68.31	77.81	76.59	76.68	77.91
Allocated returns to owned inputs:													
Return to operating capital	.00	.00	.00	.00	.00	.00	61.81	52.65	40.83	36.52	25.14	19.00	18.44
Return to other nonland capital	.00	.00	.00	.00	.00	.00	46.91	47.78	42.67	46.75	38.67	28.23	30.53
Land	.00	.00	.00	.00	.00	.00	155.07	153.77	149.01	146.91	158.25	162.77	165.46
Unpaid labor	.00	.00	.00	.00	.00	.00	20.68	22.70	22.85	21.55	20.50	21.85	22.25
Total, economic costs	.00	.00	.00	.00	.00	.00	1131.15	1183.53	1154.87	1149.27	1095.09	1066.68	1045.53
Residual returns to management and risk	.00	.00	.00	.00	.00	.00	-208.47	-122.10	-104.67	-90.45	-96.41	-3.14	-19.39
Season-average price (dollars/ton)	.00	.00	.00	.00	.00	.00	24.88	26.50	27.80	28.20	26.70	27.30	28.40
Yield (net tons/planted acre)	.00	.00	.00	.00	.00	.00	36.60	39.60	37.30	37.30	37.10	38.60	35.90

Table 59--Sugarcane production costs, Florida, 1975-87

Item	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Dollars per planted acre													
Gross value of production:													
Primary crop	.00	.00	.00	.00	.00	.00	815.10	947.52	906.62	950.81	927.78	959.90	962.54
Total	.00	.00	.00	.00	.00	.00	815.10	947.52	906.62	950.81	927.78	959.90	962.54
Cash expenses:													
Seed	.00	.00	.00	.00	.00	.00	1.38	2.04	1.35	3.66	3.62	3.57	3.71
Fertilizer	.00	.00	.00	.00	.00	.00	45.79	45.96	46.00	36.33	36.01	35.09	34.38
Chemicals	.00	.00	.00	.00	.00	.00	37.32	39.33	38.88	41.93	42.38	42.31	42.45
Custom operations	.00	.00	.00	.00	.00	.00	19.53	21.27	20.25	36.11	36.15	34.35	32.45
Fuel and lubrication	.00	.00	.00	.00	.00	.00	52.99	52.94	46.88	38.64	36.30	28.18	22.52
Repairs	.00	.00	.00	.00	.00	.00	100.97	98.54	99.71	86.31	85.64	85.50	84.02
Hired labor	.00	.00	.00	.00	.00	.00	299.98	358.32	352.25	381.95	389.85	396.51	391.42
Miscellaneous	.00	.00	.00	.00	.00	.00	6.10	6.63	6.71	17.60	17.90	17.77	17.93
Total, variable cash expenses	.00	.00	.00	.00	.00	.00	564.06	625.03	612.03	642.53	647.85	643.28	628.88
General farm overhead	.00	.00	.00	.00	.00	.00	53.05	53.31	54.53	60.35	63.18	62.90	62.09
Taxes and insurance	.00	.00	.00	.00	.00	.00	32.83	33.57	34.82	34.09	34.85	35.99	36.53
Interest	.00	.00	.00	.00	.00	.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total, fixed cash expenses	.00	.00	.00	.00	.00	.00	85.88	86.88	89.35	94.44	98.03	98.89	98.62
Total, cash expenses	.00	.00	.00	.00	.00	.00	649.94	711.91	701.38	736.97	745.88	742.17	727.50
Gross value less cash expenses	.00	.00	.00	.00	.00	.00	165.16	235.61	205.24	213.84	181.90	217.73	235.04
Capital replacement	.00	.00	.00	.00	.00	.00	35.60	36.20	39.02	46.03	47.16	48.77	49.49
Gross value less cash expenses and replacement	.00	.00	.00	.00	.00	.00	129.56	199.41	166.22	167.81	134.74	168.96	185.55
Economic (full ownership) costs:													
Variable cash expenses	.00	.00	.00	.00	.00	.00	564.06	625.03	612.03	642.53	647.85	643.28	628.88
General farm overhead	.00	.00	.00	.00	.00	.00	53.05	53.31	54.53	60.35	63.18	62.90	62.09
Taxes and insurance	.00	.00	.00	.00	.00	.00	32.83	33.57	34.82	34.09	34.85	35.99	36.53
Capital replacement	.00	.00	.00	.00	.00	.00	35.60	36.20	39.02	46.03	47.16	48.77	49.49
Allocated returns to owned inputs:													
Return to operating capital	.00	.00	.00	.00	.00	.00	42.64	37.59	29.13	34.47	24.77	19.41	19.04
Return to other nonland capital	.00	.00	.00	.00	.00	.00	36.81	34.74	31.16	35.73	29.12	20.22	21.49
Land	.00	.00	.00	.00	.00	.00	183.54	155.70	160.00	154.80	184.47	184.46	179.51
Total, economic costs	.00	.00	.00	.00	.00	.00	948.53	976.14	960.69	1008.00	1031.40	1015.03	997.03
Residual returns to management and risk	.00	.00	.00	.00	.00	.00	-133.43	-28.62	-54.07	-57.19	-103.62	-55.13	-34.49
Season-average price (dollars/ton)	.00	.00	.00	.00	.00	.00	28.60	28.20	28.60	28.90	28.20	29.00	29.80
Yield (net tons/planted acre)	.00	.00	.00	.00	.00	.00	28.50	33.60	31.70	32.90	32.90	33.10	32.30

Table 60--Sugarcane production costs, Hawaii, 1975-87

Item	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Dollars per planted acre													
Gross value of production:													
Primary crop	.00	.00	.00	.00	.00	.00	2126.75	2583.32	2876.38	2863.35	2677.93	2,795.50	2,420.60
Total	.00	.00	.00	.00	.00	.00	2126.75	2583.32	2876.38	2863.35	2677.93	2,795.50	2,420.60
Cash expenses:													
Seed	.00	.00	.00	.00	.00	.00	5.37	6.38	3.60	.00	.00	.00	.00
Fertilizer	.00	.00	.00	.00	.00	.00	338.03	367.45	375.07	271.69	251.14	243.70	236.72
Chemicals	.00	.00	.00	.00	.00	.00	108.89	120.21	122.17	91.35	97.29	98.03	96.70
Custom operations	.00	.00	.00	.00	.00	.00	106.74	110.74	109.80	45.32	50.72	50.39	45.29
Fuel and lubrication	.00	.00	.00	.00	.00	.00	133.58	155.21	144.45	72.13	73.39	66.85	45.78
Repairs	.00	.00	.00	.00	.00	.00	422.00	466.74	439.20	337.41	371.60	336.99	319.22
Hired labor	.00	.00	.00	.00	.00	.00	1053.61	1205.16	1226.48	1162.43	1087.24	1087.31	1128.53
Purchased irrigation water	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Miscellaneous	.00	.00	.00	.00	.00	.00	57.56	65.60	72.45	132.88	95.58	98.78	99.14
Total, variable cash expenses	.00	.00	.00	.00	.00	.00	2225.78	2497.49	2493.22	2113.21	2026.96	1982.05	1971.38
General farm overhead	.00	.00	.00	.00	.00	.00	258.14	294.36	296.55	237.52	220.42	219.76	231.58
Taxes and insurance	.00	.00	.00	.00	.00	.00	37.37	41.39	42.53	32.98	34.38	36.17	39.41
Interest	.00	.00	.00	.00	.00	.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total, fixed cash expenses	.00	.00	.00	.00	.00	.00	295.51	335.75	339.08	270.50	254.80	255.93	270.99
Total, cash expenses	.00	.00	.00	.00	.00	.00	2521.29	2833.24	2832.30	2383.71	2281.76	2237.98	2242.37
Gross value less cash expenses	.00	.00	.00	.00	.00	.00	-394.54	-249.92	44.08	479.64	396.17	557.52	178.23
Capital replacement	.00	.00	.00	.00	.00	.00	115.33	137.82	143.55	170.13	178.49	186.33	203.43
Gross value less cash expenses and replacement	.00	.00	.00	.00	.00	.00	-509.87	-387.74	-99.47	309.51	217.68	371.19	-25.20
Economic (full ownership) costs:													
Variable cash expenses	.00	.00	.00	.00	.00	.00	2225.78	2497.49	2493.22	2113.21	2026.96	1982.05	1971.38
General farm overhead	.00	.00	.00	.00	.00	.00	258.14	249.36	296.55	237.52	220.42	219.76	231.58
Taxes and insurance	.00	.00	.00	.00	.00	.00	37.37	41.39	42.53	32.98	34.38	36.17	39.41
Capital replacement	.00	.00	.00	.00	.00	.00	115.33	137.82	143.55	170.13	178.49	186.33	203.43
Allocated returns to owned inputs:													
Return to operating capital	.00	.00	.00	.00	.00	.00	171.80	154.55	122.17	115.08	77.54	59.86	59.73
Return to other nonland capital	.00	.00	.00	.00	.00	.00	126.49	140.02	121.28	171.31	151.66	106.51	121.67
Net land return	.00	.00	.00	.00	.00	.00	262.20	248.34	233.32	255.56	233.10	227.24	253.12
Unpaid labor	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Total, economic costs	.00	.00	.00	.00	.00	.00	3197.11	3513.97	3452.62	3095.79	3922.55	3817.92	3880.32
Residual returns to management and risk	.00	.00	.00	.00	.00	.00	-1070.36	-930.65	-576.24	-232.44	-244.62	-22.42	-459.72
Season-average price (dollars/ton)	.00	.00	.00	.00	.00	.00	23.50	26.20	29.90	30.30	28.10	27.90	24.50
Yield (net tons/planted acre)	.00	.00	.00	.00	.00	.00	90.50	98.60	96.20	94.50	95.30	100.20	98.80

Table 61--Sugarcane production costs, Louisiana, 1975-87

Item	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Dollars per planted acre													
Gross value of production:													
Primary crop	.00	.00	.00	.00	.00	.00	616.01	692.76	604.67	525.80	532.80	630.63	703.03
Hauling allowance	.00	.00	.00	.00	.00	.00	34.60	37.09	39.69	23.75	25.95	29.51	24.72
Total	.00	.00	.00	.00	.00	.00	650.61	729.85	644.36	549.55	558.75	660.14	727.75
Cash expenses:													
Seed	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.32	1.74	1.57	1.54
Fertilizer	.00	.00	.00	.00	.00	.00	47.56	45.66	40.68	43.00	40.86	32.35	28.84
Chemicals	.00	.00	.00	.00	.00	.00	44.01	48.14	51.86	59.61	57.55	55.77	54.20
Custom operations	.00	.00	.00	.00	.00	.00	16.00	17.91	16.98	17.30	16.83	16.07	15.67
Fuel and lubrication	.00	.00	.00	.00	.00	.00	80.10	72.21	58.34	49.76	60.45	48.40	49.04
Repairs	.00	.00	.00	.00	.00	.00	63.39	70.60	68.59	74.88	70.68	68.74	68.87
Hired labor	.00	.00	.00	.00	.00	.00	14.85	17.39	17.15	22.17	18.11	18.04	17.84
Total, variable cash expenses	.00	.00	.00	.00	.00	.00	265.91	271.91	253.60	269.04	266.21	240.94	236.00
General farm overhead	.00	.00	.00	.00	.00	.00	35.76	30.97	31.49	45.30	41.40	46.74	46.83
Taxes and insurance	.00	.00	.00	.00	.00	.00	15.50	17.23	16.59	21.40	19.21	19.64	20.26
Interest	.00	.00	.00	.00	.00	.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total, fixed cash expenses	.00	.00	.00	.00	.00	.00	51.26	48.20	48.08	66.70	60.61	66.38	67.09
Total, cash expenses	.00	.00	.00	.00	.00	.00	317.17	320.11	301.68	335.74	326.82	307.32	303.09
Gross value less cash expenses	.00	.00	.00	.00	.00	.00	333.44	409.74	342.68	213.81	231.93	352.82	424.66
Capital replacement	.00	.00	.00	.00	.00	.00	80.77	90.87	89.79	103.19	91.71	88.84	89.03
Gross value less cash expenses and replacement	.00	.00	.00	.00	.00	.00	252.67	318.87	252.89	110.62	140.22	263.98	335.63
Economic (full ownership) costs:													
Variable cash expenses	.00	.00	.00	.00	.00	.00	265.91	271.91	253.60	269.04	266.21	240.94	236.00
General farm overhead	.00	.00	.00	.00	.00	.00	35.76	30.97	31.49	45.30	41.40	46.74	46.83
Taxes and insurance	.00	.00	.00	.00	.00	.00	15.50	17.23	16.59	21.40	19.21	19.64	20.26
Capital replacement	.00	.00	.00	.00	.00	.00	80.77	90.87	89.79	103.19	91.71	88.84	89.03
Allocated returns to owned inputs:													
Return to operating capital	.00	.00	.00	.00	.00	.00	44.67	37.65	27.83	7.67	7.72	5.00	5.26
Return to other nonland capital	.00	.00	.00	.00	.00	.00	35.04	38.86	34.73	19.53	17.53	17.44	20.07
Net land return	.00	.00	.00	.00	.00	.00	87.01	124.65	108.86	93.64	94.88	111.51	123.73
Unpaid labor	.00	.00	.00	.00	.00	.00	57.74	67.31	66.32	71.13	63.21	64.45	63.72
Total, economic costs	.00	.00	.00	.00	.00	.00	622.40	679.45	629.21	630.90	601.87	594.56	604.90
Residual returns to management and risk	.00	.00	.00	.00	.00	.00	28.21	50.40	15.15	-81.35	-43.12	65.58	122.85
Season-average price (dollars/ton)	.00	.00	.00	.00	.00	.00	22.90	25.10	25.30	23.90	22.20	23.10	30.70
Yield (net tons/planted acre)	.00	.00	.00	.00	.00	.00	26.90	27.60	23.90	22.00	24.00	27.30	22.90

Table 62--Sugarcane production costs, Texas, 1975-87

Item	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Dollars per planted acre													
Gross value of production:													
Primary crop	.00	.00	.00	.00	.00	.00	500.85	604.50	448.40	596.75	579.60	855.25	791.04
Total	.00	.00	.00	.00	.00	.00	500.85	604.50	448.40	596.75	579.60	855.25	791.04
Cash expenses:													
Fertilizer	.00	.00	.00	.00	.00	.00	59.36	56.45	54.65	56.00	56.95	50.95	42.50
Chemicals	.00	.00	.00	.00	.00	.00	56.04	60.42	66.71	61.92	63.95	65.26	62.11
Custom operations	.00	.00	.00	.00	.00	.00	65.87	68.90	71.98	34.59	34.92	35.11	34.37
Fuel and lubrication	.00	.00	.00	.00	.00	.00	35.68	34.08	30.97	28.12	26.10	23.31	22.30
Repairs	.00	.00	.00	.00	.00	.00	115.76	74.57	76.57	66.66	68.11	69.05	69.25
Hired labor	.00	.00	.00	.00	.00	.00	120.29	170.08	171.81	172.23	177.46	182.63	181.20
Purchased irrigation water	.00	.00	.00	.00	.00	.00	42.96	45.12	46.71	46.48	47.02	48.38	47.16
Miscellaneous	.00	.00	.00	.00	.00	.00	.00	.00	.00	.60	.61	.60	.61
Total, variable cash expenses	.00	.00	.00	.00	.00	.00	495.96	509.62	519.40	466.60	475.12	475.29	459.50
General farm overhead	.00	.00	.00	.00	.00	.00	34.02	46.71	36.57	55.78	62.91	78.94	57.59
Taxes and insurance	.00	.00	.00	.00	.00	.00	10.58	10.55	11.45	7.93	8.35	8.98	9.14
Interest	.00	.00	.00	.00	.00	.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total, fixed cash expenses	.00	.00	.00	.00	.00	.00	44.60	57.26	48.02	63.71	71.26	87.92	66.73
Total, cash expenses	.00	.00	.00	.00	.00	.00	540.56	566.88	567.42	530.31	546.38	563.21	526.23
Gross value less cash expenses	.00	.00	.00	.00	.00	.00	-39.71	37.62	-119.02	66.44	33.22	292.04	264.81
Capital replacement	.00	.00	.00	.00	.00	.00	18.23	19.20	20.15	29.89	31.46	32.64	32.73
Gross value less cash expenses and replacement	.00	.00	.00	.00	.00	.00	-57.94	18.42	-139.17	36.55	1.76	259.40	232.08
Economic (full ownership) costs:													
Variable cash expenses	.00	.00	.00	.00	.00	.00	495.96	509.62	519.40	466.60	475.12	475.29	459.50
General farm overhead	.00	.00	.00	.00	.00	.00	34.02	46.71	36.57	55.78	62.91	78.94	57.59
Taxes and insurance	.00	.00	.00	.00	.00	.00	10.58	10.55	11.45	7.93	8.35	8.98	9.14
Capital replacement	.00	.00	.00	.00	.00	.00	18.23	19.20	20.15	29.89	31.46	32.64	32.73
Allocated returns to owned inputs:													
Return to operating capital	.00	.00	.00	.00	.00	.00	56.24	46.69	37.20	26.36	20.53	15.44	15.68
Return to other nonland capital	.00	.00	.00	.00	.00	.00	6.55	6.85	8.12	3.95	3.85	4.08	4.60
Net land return	.00	.00	.00	.00	.00	.00	65.29	88.75	91.37	96.49	94.99	122.37	115.69
Unpaid labor	.00	.00	.00	.00	.00	.00	14.45	15.57	15.12	15.01	15.69	16.31	16.03
Total, economic costs	.00	.00	.00	.00	.00	.00	701.32	743.94	739.38	702.01	712.90	754.05	710.96
Residual returns to management and risk	.00	.00	.00	.00	.00	.00	-200.47	-139.44	-290.98	-105.26	-133.30	101.20	80.08
Season-average price (dollars/ton)	.00	.00	.00	.00	.00	.00	15.90	19.50	15.20	21.70	20.70	27.50	25.60
Yield (net tons/planted acre)	.00	.00	.00	.00	.00	.00	31.50	31.00	29.50	27.50	28.00	31.10	30.90

Table 41 - Agriculture production costs, Louisiana, 1975-87

Year	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Costs per planted acre													
Value of production:													
Cotton	100	100	100	100	100	100	100	100	100	100	100	100	100
Soybeans	100	100	100	100	100	100	100	100	100	100	100	100	100
Wheat	100	100	100	100	100	100	100	100	100	100	100	100	100
Rice	100	100	100	100	100	100	100	100	100	100	100	100	100
Corn	100	100	100	100	100	100	100	100	100	100	100	100	100
Sorghum	100	100	100	100	100	100	100	100	100	100	100	100	100
Millet	100	100	100	100	100	100	100	100	100	100	100	100	100
Buckwheat	100	100	100	100	100	100	100	100	100	100	100	100	100
Rye	100	100	100	100	100	100	100	100	100	100	100	100	100
Barley	100	100	100	100	100	100	100	100	100	100	100	100	100
Oats	100	100	100	100	100	100	100	100	100	100	100	100	100
Clover	100	100	100	100	100	100	100	100	100	100	100	100	100
Alfalfa	100	100	100	100	100	100	100	100	100	100	100	100	100
Hay	100	100	100	100	100	100	100	100	100	100	100	100	100
Pasture	100	100	100	100	100	100	100	100	100	100	100	100	100
Fertilizer	100	100	100	100	100	100	100	100	100	100	100	100	100
Pesticides	100	100	100	100	100	100	100	100	100	100	100	100	100
Seed	100	100	100	100	100	100	100	100	100	100	100	100	100
Fuel	100	100	100	100	100	100	100	100	100	100	100	100	100
Labor	100	100	100	100	100	100	100	100	100	100	100	100	100
Interest	100	100	100	100	100	100	100	100	100	100	100	100	100
Depreciation	100	100	100	100	100	100	100	100	100	100	100	100	100
Insurance	100	100	100	100	100	100	100	100	100	100	100	100	100
Taxes	100	100	100	100	100	100	100	100	100	100	100	100	100
Miscellaneous	100	100	100	100	100	100	100	100	100	100	100	100	100
Total	100	100	100	100	100	100	100	100	100	100	100	100	100

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1987-88 - preliminary figures; 1988-89 - 1988-89