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State-Level Costs of Production, 1987

Robert McElroy
Robert Dismukes
Mir Ali

Abstract

Farmers planted 305 million acres to major crops in 1987, a decrease of 13 million acres from 1986. During this period, production costs rose. Prices for seed, fertilizers, chemicals, and fuel fell, while prices for machinery, general supplies, wages, and taxes rose. The costs and returns in this report are consistent with regional and national weighted averages published annually in the Economic Indicators of the Farm Sector: Costs of Production. The estimates are preliminary and subject to revision.

Keywords: Costs of production, State-level costs, crops

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Abstract

Farmers planted 305 million acres to major crops in 1987, a decrease of 23 million acres from 1986. During this period, production costs rose. Prices for seed, fertilizers, chemicals, and fuel fell, while prices for machinery, general supplies, wages, and taxes rose. The costs and returns in this report are consistent with regional and national weighted averages published annually in the Economic Indicators of the Farm Sector: Costs of Production. The estimates are preliminary and subject to revision.

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Dismukes, Robert
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State-Level Costs of Production, 1987

Robert McElroy
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1987 Production Costs and Returns

In 1987, farmers planted 305 million acres to the major crops (a decrease of 23 million from 1986). Total production costs were rising. Prices for seed, fertilizers, chemicals, and fuels fell, while prices of machinery, general supplies, wages, and taxes increased. This meant that variable expenses tended to decrease, but not by as much as fixed expenses tended to increase.

At the U.S. level, cash expenses for growing corn went from \$169 per planted acre in 1986 to \$176 in 1987, while total economic costs rose from \$237 to \$252. The increase was less for wheat where cash expenses rose by \$1 and economic costs rose by \$2. Other crops showed increased costs somewhere between these two. Peanuts were an exception with cash expenses decreasing \$13 per acre, although total economic costs still rose (\$7). These national relationships will not necessarily hold at the State level since there are local variations in prices of the various inputs.

Data Sources

The U.S. Department of Agriculture's Economic Research Service (USDA-ERS) has been estimating costs of production (COP) for major U.S. crops since 1974. In estimating these costs, ERS uses survey data to create State budgets by crop. These State budgets are updated and revised each year using additional secondary data and a computerized budget generator program. The budgets are aggregated using a weighted average to the regional and national level. These regional and national budgets are published annually by ERS in Economic Indicators of the Farm Sector: Costs of Production.

This report supplements the annual economic indicators report. The estimates in this report are preliminary and subject to revision. This report briefly describes the concepts and methods behind the estimates and the process of interpreting the costs and returns budgets. More detailed explanations and data sources are in the annual economic indicators report. Finally, these State budgets should be used only for general discussion purposes. Statistical reliability is only at the regional level due to the sample size.

The primary data source for developing COP budgets is the Farm Costs and Returns Survey (FCRS) conducted nationally each winter by ERS and the National Agricultural Statistics Service (NASS). Over half of the approximately 24,000 expected survey contacts were selected to complete a detailed whole-farm expenditure and receipt questionnaire. The remaining contacts were asked for

less detailed whole-farm data and for more detailed information on inputs used, application rates, and other production practice data (such as the type and number of field operations performed, machines used, and times over the field) for one of several specific commodities. These data form the basis for the enterprise budgets. Rice, oats, flaxseed, sugar beets, sugarcane, and hogs were surveyed in February and March 1989 for 1988 COP data.

The survey data are sorted by State to give average quantities of inputs like seed and fertilizer used to grow the crop. The FCRS provides additional data on machinery field operations. Estimates can be made for costs of fuel, repairs, machinery labor, and machinery ownership by adding prices of the tractors and implements and using a computerized engineering approach. Final COP budgets are aggregated by region, using each State's acreage as weights, to give a final national budget.

Because of a limited sample size and high enumeration costs, USDA does not survey for every commodity every year, but rather on a 4-year rotation. Between survey years, costs are updated using new yields, prices, and price indexes provided by NASS.

Cash Expenses and Economic Costs

Cash expenses are the out-of-pocket costs incurred during the production process. The COP survey data provide the average quantities of many of the variable inputs which are multiplied by prices to estimate cash expenses. For a few items, such as chemicals and irrigation water, the survey data provide an average cost per acre, rather than a quantity. The different categories of fixed costs are estimated by averaging the expenditures reported in the FCRS.

Economic costs, on the other hand, include both cash and noncash expenses, plus returns to the farmer for land, labor, capital, and management. USDA uses a residual return approach to estimate the costs of owned resources. Individual operators may choose to use other methods of allocating returns (value of production less cash expenses and replacement costs) to cover the costs of these resources. Some operators may assign a proportionately larger return to cover landownership costs and then leave a small return to unpaid family labor. Others may do the opposite.

From an aggregate perspective, other complicating factors, such as equity levels and tenure, must be taken into account. USDA assumes only that these allocated residual returns reflect full-ownership costs for all resources.

Differences in individual operating conditions make it impossible to compare a particular corn grower in the Northern Plains with either a peanut grower or corn grower in the Southeast. To make comparisons, ERS imputes, or assigns, rates of return to the owned factors across regions and crops. The total economic costs or returns to management for corn then can be compared with those for peanuts.

Cash Rent and Share Rent Arrangements

Because the COP budgets are presented as sector budgets rather than operator budgets, they include both landowner and rental expenses. The two budgets are different. For example, operator budgets include rent and lease costs, reflect the cash expenses for which the renter is responsible (minus the landlord's share), and portray the characteristics of an individual farming operation. USDA budgets are designed to reflect the costs of production per acre regardless of who owns or supplies inputs.

Cash and share rent are examples of different tenure characteristics (and production costs from a lessee's point of view). ERS budgets estimate a return to land based on a weighted average of the cash and share rental rates and tenure characteristics unique to each State in the region.

Harvest-Period Prices

Harvest-period prices, rather than season-average prices, are used in the crop COP budgets because storage costs are not included as a cost of production. Storage is better classified as a marketing cost. For example, if the majority of Illinois corn is harvested in October, that price is used to estimate the value of production. This is done for each crop in each State before the budgets are weighted and aggregated to regional and U.S. averages.

Data users should also be aware that estimates of the value of production omit direct Government payments. However, in the peanut program, the Government supports the product price through direct market intervention. As a result, the peanut value of production reflects the market price and masks Government outlays for the program. In contrast, other crop price support programs are voluntary and contain special provisions for compliance. Both program payments and the costs of compliance need to be excluded if cost and return information is to be used to determine whether support prices will encourage or maintain production at adequate levels.

Cost-of-Production Terminology

Gross value of production--The value of production for the primary crop equals the harvest-period price times the planted-acre yield. For some crops, there is a secondary product (such as wheat straw, cottonseed, beet tops, and culled livestock), and their values are also included.

Cash expenses--These reflect the shortrun out-of-pocket variable and fixed costs. On a per-unit basis, they are the minimum breakeven price needed, on an average acre of cropland, to raise and harvest a crop with the given yield.

Most expense items are self-explanatory. Technical services include soil tests and scouting. General farm overhead includes telephone, office supplies, fence repairs, and general business expenses. Taxes include personal property and real estate taxes. Federal and State income taxes are not included in the budgets because they are determined by the financial

situation of each taxpayer. Insurance includes liability and fire, but not crop. Interest expenses come directly from the FCRS and measure the actual cash payments of the respondent.

Capital replacement (or economic depreciation)--This represents an estimate of the value of the machinery, equipment, and breeding stock used during the year, plus the additional cost required to bring these items to the same quality and quantity levels that they were at the beginning of the period. The cash-flow position of producers can be determined by subtracting cash expenses, with or without capital replacement, since the producer can delay replacing capital for a short time.

Economic (full ownership) costs--These provide a full accounting of both cash and noncash costs for an average acre to produce the given yield, regardless of tenure or equity. Economic costs (excluding land) indicate the average longer run costs, which must be covered to keep an acre of land in production before rent is paid, whether to the owner-operator or to the landholder. Economic costs (including land) indicate the total longrun costs. On a per-unit basis, these costs show the longrun average price necessary to break even and continue producing the commodity.

All cash expenses, including replacement but excluding cash interest, are included in economic costs. Interest is excluded because it implies a certain equity position of the operator. A measure of returns is needed that can be used for all commodities regardless of equity position.

Subtracting the sum of the cash expenses (less interest) and capital replacement from the total value of production (both primary and secondary products) gives the residual return to owned inputs. The residual returns can then be allocated to cover the opportunity costs of capital invested in operating inputs, machinery and equipment, land (rent), and labor. The cost allocation is based on the imputed value of each item in the production process and is fully explained in Economic Indicators of the Farm Sector: Costs of Production.

Total economic costs are subtracted from the total value of production to give a residual return to management and risk. This return does not reflect and should not be interpreted as profit or loss, since it excludes direct Government program payments, income taxes, and other factors such as marketing expenses.

Net cash returns--These are estimated by subtracting total cash expenses from the total value of production. Net cash returns are the minimum returns needed from a crop to keep it in production.

Net cash returns after replacement--These reflect cash available for paying for the farmer's owned inputs after all variable and fixed cash costs and a replacement allowance are paid.

Residual returns to management and risk--These are the longrun economic indicators used to make comparisons between commodities and to assess relative returns among commodities.

Table 1--Alabama corn production costs
per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	116.55
Total	116.55
=====	
Cash expenses:	
Seed	14.81
Fertilizer	49.78
Lime and gypsum	4.98
Chemicals	12.35
Custom operations	6.30
Fuel, lube, and electricity	8.30
Repairs	9.19
Hired labor	4.64
Drying	2.03
Technical services	.44
Total, variable cash expenses	112.82
General farm overhead	6.20
Taxes and insurance	5.30
Interest on operating loans	3.62
Interest on real estate	4.95
Total, fixed cash expenses	20.07
Total, cash expenses	132.89
Gross value less cash expenses (excl. direct Gov't payments)	-16.34
Capital replacement	20.10
Gross value less cash expenses and replacement (excl. direct Gov't payments)	-36.44
=====	
Economic (full ownership) costs:	
Variable cash expenses	112.82
General farm overhead	6.20
Taxes and insurance	5.30
Capital replacement	20.10
Allocated returns to owned inputs:	
Return to operating capital	3.02
Return to other nonland capital	4.69
Net land return	20.22
Unpaid labor	13.19
Total, economic costs	185.54
Residual returns to management and risk (excl. direct Gov't payments)	-68.99
=====	
Harvest-period price (dollars/bu.)	1.80
Yield (bu./planted acre)	64.75

All costs and returns are preliminary as of 9/1/88.

Table 2--Alabama wheat production costs
per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	51.86
Total	51.86
=====	
Cash expenses:	
Seed	13.85
Fertilizer	27.80
Lime and gypsum	.48
Chemicals	3.58
Custom operations	18.54
Fuel, lube, and electricity	6.62
Repairs	6.35
Hired labor	3.56
Technical services	.03
Total, variable cash expenses	80.81
General farm overhead	2.76
Taxes and insurance	4.79
Interest on operating loans	1.61
Interest on real estate	2.20
Total, fixed cash expenses	11.36
Total, cash expenses	92.17
Gross value less cash expenses (excl. direct Gov't payments)	-40.31
Capital replacement	14.70
Gross value less cash expenses and replacement (excl. direct Gov't payments)	-55.01
=====	
Economic (full ownership) costs:	
Variable cash expenses	80.81
General farm overhead	2.76
Taxes and insurance	4.79
Capital replacement	14.70
Allocated returns to owned inputs:	
Return to operating capital	2.54
Return to other nonland capital	3.00
Net land return	18.43
Unpaid labor	7.91
Total, economic costs	134.94
Residual returns to management and risk (excl. direct Gov't payments)	-83.08
=====	
Harvest-period price (dollars/bu.)	2.46
Yield (bu./planted acre)	21.08

All costs and returns are preliminary as of 9/1/88.

Table 3--Alabama soybean production costs per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	83.16
Total	83.16
=====	
Cash expenses:	
Seed	8.72
Fertilizer	13.26
Lime and gypsum	4.65
Chemicals	17.86
Custom operations	1.12
Fuel, lube, and electricity	11.27
Repairs	11.80
Hired labor	4.28
Total, variable cash expenses	72.96
General farm overhead	4.42
Taxes and insurance	5.77
Interest on operating loans	2.59
Interest on real estate	3.53
Total, fixed cash expenses	16.31
Total, cash expenses	89.27
Gross value less cash expenses (excl. direct Gov't payments)	-6.11
Capital replacement	25.51
Gross value less cash expenses and replacement (excl. direct Gov't payments)	-31.62
=====	
Economic (full ownership) costs:	
Variable cash expenses	72.96
General farm overhead	4.42
Taxes and insurance	5.77
Capital replacement	25.51
Allocated returns to owned inputs:	
Return to operating capital	1.62
Return to other nonland capital	5.28
Net land return	20.15
Unpaid labor	16.10
Total, economic costs	151.81
Residual returns to management and risk (excl. direct Gov't payments)	-68.65
=====	
Harvest-period price (dollars/bu.)	5.25
Yield (bu./planted acre)	15.84
=====	

All costs and returns are preliminary as of 9/1/88.

Table 4--Alabama peanut production costs per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	563.46
Secondary crop	17.72
Total	581.18
=====	
Cash expenses:	
Seed	86.77
Fertilizer	21.40
Lime and gypsum	13.66
Chemicals	98.33
Custom operations	7.31
Fuel, lube, and electricity	17.41
Repairs	13.71
Hired labor	14.09
Drying	32.43
Technical services	.62
Total, variable cash expenses	305.73
General farm overhead	30.92
Taxes and insurance	7.15
Interest on operating loans	18.07
Interest on real estate	24.70
Total, fixed cash expenses	80.84
Total, cash expenses	386.57
Gross value less cash expenses (excl. direct Gov't payments)	194.61
Capital replacement	34.73
Gross value less cash expenses and replacement (excl. direct Gov't payments)	159.88
=====	
Economic (full ownership) costs:	
Variable cash expenses	305.73
General farm overhead	30.92
Taxes and insurance	7.15
Capital replacement	34.73
Allocated returns to owned inputs:	
Return to operating capital	7.48
Return to other nonland capital	7.60
Net land return	58.02
Unpaid labor	15.26
Total, economic costs	466.89
Residual returns to management and risk (excl. direct Gov't payments)	114.29
=====	
Harvest-period price (dollars/lb.)	.27
Yield (lbs./planted acre)	2110.32
=====	

All costs and returns are preliminary as of 9/1/88.

Table 5--Alabama cotton production costs per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	387.59
Secondary crop	34.79
Total	422.38
Cash expenses:	
Seed	6.96
Fertilizer	32.82
Lime and gypsum	9.63
Chemicals	102.27
Custom operations	6.82
Fuel, lube, and electricity	16.73
Repairs	20.28
Hired labor	18.27
Ginning	50.63
Technical services	2.55
Total, variable cash expenses	266.96
General farm overhead	22.47
Taxes and insurance	11.43
Interest on operating loans	13.14
Interest on real estate	17.95
Total, fixed cash expenses	64.99
Total, cash expenses	331.95
Gross value less cash expenses (excl. direct Gov't payments)	90.43
Capital replacement	64.38
Gross value less cash expenses and replacement (excl. direct Gov't payments)	26.05
Economic (full ownership) costs:	
Variable cash expenses	266.96
General farm overhead	22.47
Taxes and insurance	11.43
Capital replacement	64.38
Allocated returns to owned inputs:	
Return to operating capital	4.39
Return to other nonland capital	12.26
Net land return	59.27
Unpaid labor	7.46
Total, economic costs	448.62
Residual returns to management and risk (excl. direct Gov't payments)	-26.24
Harvest-period price (dollars/lb.)	.66
Yield (lbs./planted acre)	584.60

All costs and returns are preliminary as of 9/1/88.

Table 6--Arizona barley (irrigated) production costs per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	199.50
Secondary crop	5.59
Total	205.09
Cash expenses:	
Seed	20.77
Fertilizer	30.03
Chemicals	1.41
Custom operations	23.67
Fuel, lube, and electricity	151.13
Repairs	21.67
Hired labor	15.04
Technical services	1.05
Total, variable cash expenses	264.77
General farm overhead	18.50
Taxes and insurance	16.66
Interest on operating loans	9.99
Interest on real estate	29.82
Total, fixed cash expenses	74.97
Total, cash expenses	339.74
Gross value less cash expenses (excl. direct Gov't payments)	-134.65
Capital replacement	44.44
Gross value less cash expenses and replacement (excl. direct Gov't payments)	-179.09
Economic (full ownership) costs:	
Variable cash expenses	264.77
General farm overhead	18.50
Taxes and insurance	16.66
Capital replacement	44.44
Allocated returns to owned inputs:	
Return to operating capital	3.39
Return to other nonland capital	9.41
Net land return	4.86
Unpaid labor	16.96
Total, economic costs	378.99
Residual returns to management and risk (excl. direct Gov't payments)	-173.90
Harvest-period price (dollars/bu.)	2.29
Yield (bu./planted acre)	87.12

All costs and returns are preliminary as of 9/1/88.

Table 7--Arizona wheat production costs per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	255.11
Total	255.11
=====	
Cash expenses:	
Seed	20.10
Fertilizer	33.02
Chemicals	7.80
Custom operations	37.49
Fuel, lube, and electricity	103.11
Repairs	21.68
Hired labor	8.12
Technical services	.01
Total, variable cash expenses	231.33
General farm overhead	23.01
Taxes and insurance	11.93
Interest on operating loans	12.42
Interest on real estate	37.09
Total, fixed cash expenses	84.45
Total, cash expenses	315.78
Gross value less cash expenses (excl. direct Gov't payments)	-60.67
Capital replacement	31.34
Gross value less cash expenses and replacement (excl. direct Gov't payments)	-92.01
=====	
Economic (full ownership) costs:	
Variable cash expenses	231.33
General farm overhead	23.01
Taxes and insurance	11.93
Capital replacement	31.34
Allocated returns to owned inputs:	
Return to operating capital	6.24
Return to other nonland capital	6.51
Net land return	116.42
Unpaid labor	18.07
Total, economic costs	444.85
Residual returns to management and risk (excl. direct Gov't payments)	-189.74
=====	
Harvest-period price (dollars/bu.)	2.90
Yield (bu./planted acre)	87.97
=====	

All costs and returns are preliminary as of 9/1/88.

Table 8--Arizona cotton (irrigated) production costs per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	833.42
Secondary crop	97.77
Total	931.19
=====	
Cash expenses:	
Seed	8.24
Fertilizer	52.02
Chemicals	98.04
Custom operations	156.98
Fuel, lube, and electricity	184.49
Repairs	35.02
Hired labor	53.26
Ginning	133.76
Technical services	3.43
Total, variable cash expenses	725.24
General farm overhead	83.99
Taxes and insurance	22.86
Interest on operating loans	45.35
Interest on real estate	135.40
Total, fixed cash expenses	287.60
Total, cash expenses	1012.84
Gross value less cash expenses (excl. direct Gov't payments)	-81.65
Capital replacement	78.07
Gross value less cash expenses and replacement (excl. direct Gov't payments)	-159.72
=====	
Economic (full ownership) costs:	
Variable cash expenses	725.24
General farm overhead	83.99
Taxes and insurance	22.86
Capital replacement	78.07
Allocated returns to owned inputs:	
Return to operating capital	11.46
Return to other nonland capital	16.97
Net land return	92.85
Unpaid labor	21.76
Total, economic costs	1053.20
Residual returns to management and risk (excl. direct Gov't payments)	-122.01
=====	
Harvest-period price (dollars/lb.)	.65
Yield (lbs./planted acre)	1286.15
=====	

All costs and returns are preliminary as of 9/1/88.

Table 9--Arkansas grain sorghum production costs per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	102.59
Total	102.59
=====	
Cash expenses:	
Seed	3.79
Fertilizer	19.33
Chemicals	5.20
Custom operations	1.23
Fuel, lube, and electricity	9.59
Repairs	7.34
Hired labor	2.18
Drying	.43
Technical services	.12
Total, variable cash expenses	49.21
General farm overhead	6.14
Taxes and insurance	8.29
Interest on operating loans	5.39
Interest on real estate	4.48
Total, fixed cash expenses	24.30
Total, cash expenses	73.51
Gross value less cash expenses (excl. direct Gov't payments)	29.08
Capital replacement	26.62
Gross value less cash expenses and replacement (excl. direct Gov't payments)	2.46
=====	
Economic (full ownership) costs:	
Variable cash expenses	49.21
General farm overhead	6.14
Taxes and insurance	8.29
Capital replacement	26.62
Allocated returns to owned inputs:	
Return to operating capital	1.41
Return to other nonland capital	5.37
Net land return	23.51
Unpaid labor	8.74
Total, economic costs	129.29
Residual returns to management and risk (excl. direct Gov't payments)	-26.70
=====	
Harvest-period price (dollars/bu.)	1.46
Yield (bu./planted acre)	70.27
=====	

All costs and returns are preliminary as of 9/1/88.

Table 10--Arkansas wheat production costs per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	89.24
Total	89.24
=====	
Cash expenses:	
Seed	7.91
Fertilizer	26.25
Chemicals	1.87
Custom operations	1.02
Fuel, lube, and electricity	5.30
Repairs	5.14
Hired labor	2.05
Total, variable cash expenses	49.54
General farm overhead	5.34
Taxes and insurance	6.01
Interest on operating loans	4.69
Interest on real estate	3.90
Total, fixed cash expenses	19.94
Total, cash expenses	69.48
Gross value less cash expenses (excl. direct Gov't payments)	19.76
Capital replacement	19.99
Gross value less cash expenses and replacement (excl. direct Gov't payments)	-23
=====	
Economic (full ownership) costs:	
Variable cash expenses	49.54
General farm overhead	5.34
Taxes and insurance	6.01
Capital replacement	19.99
Allocated returns to owned inputs:	
Return to operating capital	1.82
Return to other nonland capital	3.83
Net land return	19.63
Unpaid labor	4.56
Total, economic costs	110.72
Residual returns to management and risk (excl. direct Gov't payments)	-21.48
=====	
Harvest-period price (dollars/bu.)	2.41
Yield (bu./planted acre)	37.03
=====	

All costs and returns are preliminary as of 9/1/88.

Table 11--Arkansas (Northeast) rice production costs per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	260.96
Total	260.96
=====	
Cash expenses:	
Seed	21.04
Fertilizer	19.48
Chemicals	1.48
Custom operations	33.16
Fuel, lube, and electricity	43.89
Repairs	29.88
Hired labor	29.35
Drying	25.56
Technical services	5.41
Total, variable cash expenses	209.25
General farm overhead	15.61
Taxes and insurance	12.39
Interest on operating loans	13.70
Interest on real estate	11.40
Total, fixed cash expenses	53.10
Total, cash expenses	262.35
Gross value less cash expenses (excl. direct Gov't payments)	-1.39
Capital replacement	53.84
Gross value less cash expenses and replacement (excl. direct Gov't payments)	-55.23
=====	
Economic (full ownership) costs:	
Variable cash expenses	209.25
General farm overhead	15.61
Taxes and insurance	12.39
Capital replacement	53.84
Allocated returns to owned inputs:	
Return to operating capital	3.58
Return to other nonland capital	11.68
Net land return	45.52
Unpaid labor	20.39
Total, economic costs	372.26
Residual returns to management and risk (excl. direct Gov't payments)	-111.30
=====	
Harvest-period price (dollars/cwt.)	4.92
Yield (cwt./planted acre)	53.04

All costs and returns are preliminary as of 9/1/88.

Table 12--Arkansas (Grand Prairie) rice production costs per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	272.12
Total	272.12
=====	
Cash expenses:	
Seed	24.10
Fertilizer	22.34
Chemicals	.35
Custom operations	42.96
Fuel, lube, and electricity	44.74
Repairs	38.68
Hired labor	23.18
Drying	15.82
Technical services	4.91
Total, variable cash expenses	217.08
General farm overhead	16.27
Taxes and insurance	14.45
Interest on operating loans	14.29
Interest on real estate	11.89
Total, fixed cash expenses	56.90
Total, cash expenses	273.98
Gross value less cash expenses (excl. direct Gov't payments)	-1.86
Capital replacement	64.24
Gross value less cash expenses and replacement (excl. direct Gov't payments)	-66.10
=====	
Economic (full ownership) costs:	
Variable cash expenses	217.08
General farm overhead	16.27
Taxes and insurance	14.45
Capital replacement	64.24
Allocated returns to owned inputs:	
Return to operating capital	4.44
Return to other nonland capital	14.29
Net land return	53.92
Unpaid labor	16.11
Total, economic costs	400.80
Residual returns to management and risk (excl. direct Gov't payments)	-128.68
=====	
Harvest-period price (dollars/cwt.)	4.92
Yield (cwt./planted acre)	55.31

All costs and returns are preliminary as of 9/1/88.

Table 13--Arkansas soybean production costs per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	117.61
Total	117.61
=====	
Cash expenses:	
Seed	13.22
Fertilizer	1.76
Chemicals	7.32
Custom operations	.28
Fuel, lube, and electricity	8.85
Repairs	6.18
Hired labor	2.25
Technical services	.11
Total, variable cash expenses	39.97
General farm overhead	7.03
Taxes and insurance	8.34
Interest on operating loans	6.17
Interest on real estate	5.14
Total, fixed cash expenses	26.68
Total, cash expenses	66.65
Gross value less cash expenses (excl. direct Gov't payments)	50.96
Capital replacement	25.41
Gross value less cash expenses and replacement (excl. direct Gov't payments)	25.55
=====	
Economic (full ownership) costs:	
Variable cash expenses	39.97
General farm overhead	7.03
Taxes and insurance	8.34
Capital replacement	25.41
Allocated returns to owned inputs:	
Return to operating capital	1.12
Return to other nonland capital	4.92
Net land return	27.53
Unpaid labor	8.45
Total, economic costs	122.77
Residual returns to management and risk (excl. direct Gov't payments)	-5.16
=====	
Harvest-period price (dollars/bu.)	5.43
Yield (bu./planted acre)	21.66

All costs and returns are preliminary as of 9/1/88.

Table 14--Arkansas cotton production costs per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	478.22
Secondary crop	41.83
Total	520.05
=====	
Cash expenses:	
Seed	9.56
Fertilizer	23.47
Lime and gypsum	1.37
Chemicals	70.78
Custom operations	7.18
Fuel, lube, and electricity	16.21
Repairs	20.93
Hired labor	23.71
Ginning	62.37
Technical services	2.19
Total, variable cash expenses	237.77
General farm overhead	31.10
Taxes and insurance	10.50
Interest on operating loans	27.30
Interest on real estate	22.73
Total, fixed cash expenses	91.63
Total, cash expenses	329.40
Gross value less cash expenses (excl. direct Gov't payments)	190.65
Capital replacement	45.23
Gross value less cash expenses and replacement (excl. direct Gov't payments)	145.42
=====	
Economic (full ownership) costs:	
Variable cash expenses	237.77
General farm overhead	31.10
Taxes and insurance	10.50
Capital replacement	45.23
Allocated returns to owned inputs:	
Return to operating capital	3.20
Return to other nonland capital	9.36
Net land return	86.76
Unpaid labor	9.68
Total, economic costs	433.60
Residual returns to management and risk (excl. direct Gov't payments)	86.45
=====	
Harvest-period price (dollars/lb.)	.63
Yield (lbs./planted acre)	755.48

All costs and returns are preliminary as of 9/1/88.

Table 15--California corn (irrigated) production costs per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	327.17
Total	327.17
=====	
Cash expenses:	
Seed	21.42
Fertilizer	48.04
Chemicals	27.89
Custom operations	17.71
Fuel, lube, and electricity	36.51
Repairs	22.61
Hired labor	12.83
Drying	4.13
Technical services	.30
Total, variable cash expenses	191.44
General farm overhead	27.91
Taxes and insurance	20.09
Interest on operating loans	10.89
Interest on real estate	19.40
Total, fixed cash expenses	78.29
Total, cash expenses	269.73
Gross value less cash expenses (excl. direct Gov't payments)	57.44
Capital replacement	51.61
Gross value less cash expenses and replacement (excl. direct Gov't payments)	5.83
=====	
Economic (full ownership) costs:	
Variable cash expenses	191.44
General farm overhead	27.91
Taxes and insurance	20.09
Capital replacement	51.61
Allocated returns to owned inputs:	
Return to operating capital	4.63
Return to other nonland capital	10.85
Net land return	80.71
Unpaid labor	36.50
Total, economic costs	423.74
Residual returns to management and risk (excl. direct Gov't payments)	-96.57
=====	
Harvest-period price (dollars/bu.)	2.25
Yield (bu./planted acre)	145.41
=====	

All costs and returns are preliminary as of 9/1/88.

Table 16--California barley (after crop) production costs per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	55.38
Total	55.38
=====	
Cash expenses:	
Seed	6.62
Fertilizer	7.42
Chemicals	4.26
Custom operations	4.61
Fuel, lube, and electricity	5.08
Repairs	7.52
Hired labor	4.42
Total, variable cash expenses	39.93
General farm overhead	4.72
Taxes and insurance	9.40
Interest on operating loans	1.84
Interest on real estate	3.28
Total, fixed cash expenses	19.24
Total, cash expenses	59.17
Gross value less cash expenses (excl. direct Gov't payments)	-3.79
Capital replacement	17.11
Gross value less cash expenses and replacement (excl. direct Gov't payments)	-20.90
=====	
Economic (full ownership) costs:	
Variable cash expenses	39.93
General farm overhead	4.72
Taxes and insurance	9.40
Capital replacement	17.11
Allocated returns to owned inputs:	
Return to operating capital	1.19
Return to other nonland capital	3.67
Net land return	7.75
Unpaid labor	4.98
Total, economic costs	88.75
Residual returns to management and risk (excl. direct Gov't payments)	-33.37
=====	
Harvest-period price (dollars/bu.)	2.13
Yield (bu./planted acre)	26.00
=====	

All costs and returns are preliminary as of 9/1/88.

Table 17--California barley (after fallow)
production costs per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	66.80
Total	66.80
=====	
Cash expenses:	
Seed	7.46
Fertilizer	11.66
Chemicals	9.83
Custom operations	5.08
Fuel, lube, and electricity	5.80
Repairs	7.84
Hired labor	5.16
Total, variable cash expenses	52.83
General farm overhead	5.70
Taxes and insurance	15.25
Interest on operating loans	2.22
Interest on real estate	3.96
Total, fixed cash expenses	27.13
Total, cash expenses	79.96
Gross value less cash expenses (excl. direct Gov't payments)	-13.16
Capital replacement	18.30
Gross value less cash expenses and replacement (excl. direct Gov't payments)	-31.46
=====	
Economic (full ownership) costs:	
Variable cash expenses	52.83
General farm overhead	5.70
Taxes and insurance	15.25
Capital replacement	18.30
Allocated returns to owned inputs:	
Return to operating capital	1.46
Return to other nonland capital	3.90
Net land return	3.73
Unpaid labor	5.82
Total, economic costs	106.99
Residual returns to management and risk (excl. direct Gov't payments)	-40.19
=====	
Harvest-period price (dollars/bu.)	2.13
Yield (bu./planted acre)	31.36
=====	

All costs and returns are preliminary as of 9/1/88.

Table 18--California barley (irrigated)
production costs per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	105.27
Secondary crop	3.77
Total	109.04
=====	
Cash expenses:	
Seed	8.69
Fertilizer	32.77
Chemicals	6.59
Custom operations	19.29
Fuel, lube, and electricity	19.71
Repairs	11.03
Hired labor	12.53
Technical services	.63
Total, variable cash expenses	111.24
General farm overhead	9.30
Taxes and insurance	16.46
Interest on operating loans	3.63
Interest on real estate	6.47
Total, fixed cash expenses	35.86
Total, cash expenses	147.10
Gross value less cash expenses (excl. direct Gov't payments)	-38.06
Capital replacement	27.85
Gross value less cash expenses and replacement (excl. direct Gov't payments)	-65.91
=====	
Economic (full ownership) costs:	
Variable cash expenses	111.24
General farm overhead	9.30
Taxes and insurance	16.46
Capital replacement	27.85
Allocated returns to owned inputs:	
Return to operating capital	2.66
Return to other nonland capital	5.71
Net land return	31.47
Unpaid labor	14.14
Total, economic costs	218.83
Residual returns to management and risk (excl. direct Gov't payments)	-109.79
=====	
Harvest-period price (dollars/bu.)	1.92
Yield (bu./planted acre)	54.83
=====	

All costs and returns are preliminary as of 9/1/88.

Table 19--California wheat production costs per planted acre

Item	1987
Dollars	
Gross value (excl. direct Gov't. payments):	
Primary crop	193.22
Secondary crop	.76
Total	193.98
=====	
Cash expenses:	
Seed	16.79
Fertilizer	15.86
Chemicals	10.55
Custom operations	18.56
Fuel, lube, and electricity	16.50
Repairs	8.19
Hired labor	8.79
Technical services	1.15
Total, variable cash expenses	96.39
General farm overhead	16.55
Taxes and insurance	18.56
Interest on operating loans	6.46
Interest on real estate	11.50
Total, fixed cash expenses	53.07
Total, cash expenses	149.46
Gross value less cash expenses (excl. direct Gov't payments)	44.52
Capital replacement	23.90
Gross value less cash expenses and replacement (excl. direct Gov't payments)	20.62
=====	
Economic (full ownership) costs:	
Variable cash expenses	96.39
General farm overhead	16.55
Taxes and insurance	18.56
Capital replacement	23.90
Allocated returns to owned inputs:	
Return to operating capital	2.93
Return to other nonland capital	5.85
Net land return	88.92
Unpaid labor	19.56
Total, economic costs	272.66
Residual returns to management and risk (excl. direct Gov't payments)	-78.68
=====	
Harvest-period price (dollars/bu.)	2.74
Yield (bu./planted acre)	70.52

All costs and returns are preliminary as of 9/1/88.

Table 20--California (Sacramento Valley) rice production costs per planted acre

Item	1987
Dollars	
Gross value (excl. direct Gov't. payments):	
Primary crop	316.19
Total	316.19
=====	
Cash expenses:	
Seed	26.56
Fertilizer	29.93
Chemicals	6.00
Custom operations	56.04
Fuel, lube, and electricity	25.56
Repairs	34.43
Hired labor	35.02
Drying	47.51
Technical services	8.28
Total, variable cash expenses	269.33
General farm overhead	26.97
Taxes and insurance	24.08
Interest on operating loans	10.53
Interest on real estate	18.75
Total, fixed cash expenses	80.33
Total, cash expenses	349.66
Gross value less cash expenses (excl. direct Gov't payments)	-33.47
Capital replacement	64.28
Gross value less cash expenses and replacement (excl. direct Gov't payments)	-97.75
=====	
Economic (full ownership) costs:	
Variable cash expenses	269.33
General farm overhead	26.97
Taxes and insurance	24.08
Capital replacement	64.28
Allocated returns to owned inputs:	
Return to operating capital	5.92
Return to other nonland capital	14.09
Net land return	59.13
Unpaid labor	24.34
Total, economic costs	488.14
Residual returns to management and risk (excl. direct Gov't payments)	-171.95
=====	
Harvest-period price (dollars/cwt.)	4.49
Yield (cwt./planted acre)	70.42

All costs and returns are preliminary as of 9/1/88.

Table 21--California cotton (irrigated)
production costs per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	875.92
Secondary crop	108.35
Total	984.27
=====	
Cash expenses:	
Seed	8.22
Fertilizer	39.56
Lime and gypsum	2.38
Chemicals	59.77
Custom operations	46.64
Fuel, lube, and electricity	48.83
Repairs	24.10
Hired labor	55.58
Ginning	130.32
Technical services	3.30
Total, variable cash expenses	418.70
General farm overhead	83.96
Taxes and insurance	23.32
Interest on operating loans	32.78
Interest on real estate	58.37
Total, fixed cash expenses	198.43
Total, cash expenses	617.13
Gross value less cash expenses (excl. direct Gov't payments)	367.14
Capital replacement	58.47
Gross value less cash expenses and replacement (excl. direct Gov't payments)	308.67
=====	
Economic (full ownership) costs:	
Variable cash expenses	418.70
General farm overhead	83.96
Taxes and insurance	23.32
Capital replacement	58.47
Allocated returns to owned inputs:	
Return to operating capital	7.92
Return to other nonland capital	11.71
Net land return	156.20
Unpaid labor	22.70
Total, economic costs	782.98
Residual returns to management and risk (excl. direct Gov't payments)	201.29
=====	
Harvest-period price (dollars/lb.)	.70
Yield (lbs./planted acre)	1253.10
=====	

All costs and returns are preliminary as of 9/1/88.

Table 22--Colorado corn (irrigated) production costs
per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	256.07
Total	256.07
=====	
Cash expenses:	
Seed	22.63
Fertilizer	29.27
Chemicals	20.57
Custom operations	12.89
Fuel, lube, and electricity	40.46
Repairs	22.15
Hired labor	8.66
Drying	1.66
Technical services	.36
Total, variable cash expenses	158.65
General farm overhead	23.10
Taxes and insurance	14.75
Interest on operating loans	12.47
Interest on real estate	37.23
Total, fixed cash expenses	87.55
Total, cash expenses	246.20
Gross value less cash expenses (excl. direct Gov't payments)	9.87
Capital replacement	50.50
Gross value less cash expenses and replacement (excl. direct Gov't payments)	-40.63
=====	
Economic (full ownership) costs:	
Variable cash expenses	158.65
General farm overhead	23.10
Taxes and insurance	14.75
Capital replacement	50.50
Allocated returns to owned inputs:	
Return to operating capital	4.14
Return to other nonland capital	11.34
Net land return	23.18
Unpaid labor	24.65
Total, economic costs	310.31
Residual returns to management and risk (excl. direct Gov't payments)	-54.24
=====	
Harvest-period price (dollars/bu.)	1.68
Yield (bu./planted acre)	152.42
=====	

All costs and returns are preliminary as of 9/1/88.

Table 23--Colorado barley (after fallow)
production costs per planted acre

Item	1987
Dollars	
Gross value (excl. direct Gov't. payments):	
Primary crop	70.53
Total	70.53
=====	
Cash expenses:	
Seed	1.33
Fertilizer	2.80
Chemicals	1.18
Custom operations	4.51
Fuel, lube, and electricity	5.48
Repairs	6.85
Hired labor	4.19
Total, variable cash expenses	26.34
General farm overhead	6.36
Taxes and insurance	6.86
Interest on operating loans	3.44
Interest on real estate	10.26
Total, fixed cash expenses	26.92
Total, cash expenses	53.26
Gross value less cash expenses (excl. direct Gov't payments)	17.27
Capital replacement	20.97
Gross value less cash expenses and replacement (excl. direct Gov't payments)	-3.70
=====	
Economic (full ownership) costs:	
Variable cash expenses	26.34
General farm overhead	6.36
Taxes and insurance	6.86
Capital replacement	20.97
Allocated returns to owned inputs:	
Return to operating capital	.63
Return to other nonland capital	4.24
Net land return	21.02
Unpaid labor	4.72
Total, economic costs	91.14
Residual returns to management and risk (excl. direct Gov't payments)	-20.61
=====	
Harvest-period price (dollars/bu.)	2.06
Yield (bu./planted acre)	34.24

All costs and returns are preliminary as of 9/1/88.

Table 24--Colorado barley (irrigated) production costs
per planted acre

Item	1987
Dollars	
Gross value (excl. direct Gov't. payments):	
Primary crop	189.05
Secondary crop	6.35
Total	195.40
=====	
Cash expenses:	
Seed	2.58
Fertilizer	20.76
Chemicals	10.42
Custom operations	23.27
Fuel, lube, and electricity	30.50
Repairs	18.38
Hired labor	8.78
Technical services	.11
Total, variable cash expenses	114.80
General farm overhead	17.62
Taxes and insurance	11.65
Interest on operating loans	9.52
Interest on real estate	28.41
Total, fixed cash expenses	67.20
Total, cash expenses	182.00
Gross value less cash expenses (excl. direct Gov't payments)	13.40
Capital replacement	38.67
Gross value less cash expenses and replacement (excl. direct Gov't payments)	-25.27
=====	
Economic (full ownership) costs:	
Variable cash expenses	114.80
General farm overhead	17.62
Taxes and insurance	11.65
Capital replacement	38.67
Allocated returns to owned inputs:	
Return to operating capital	1.43
Return to other nonland capital	8.60
Net land return	30.63
Unpaid labor	9.91
Total, economic costs	233.31
Residual returns to management and risk (excl. direct Gov't payments)	-37.91
=====	
Harvest-period price (dollars/bu.)	2.06
Yield (bu./planted acre)	91.77

All costs and returns are preliminary as of 9/1/88.

Table 25--Colorado wheat production costs
per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	66.88
Secondary crop	.66
Total	67.54
=====	
Cash expenses:	
Seed	3.80
Fertilizer	5.12
Chemicals	.94
Custom operations	4.08
Fuel, lube, and electricity	4.46
Repairs	5.55
Hired labor	1.80
Technical services	.15
Total, variable cash expenses	25.89
General farm overhead	6.09
Taxes and insurance	4.95
Interest on operating loans	3.29
Interest on real estate	9.82
Total, fixed cash expenses	24.15
Total, cash expenses	50.04
Gross value less cash expenses (excl. direct Gov't payments)	17.50
Capital replacement	15.14
Gross value less cash expenses and replacement (excl. direct Gov't payments)	2.36
=====	
Economic (full ownership) costs:	
Variable cash expenses	25.89
General farm overhead	6.09
Taxes and insurance	4.95
Capital replacement	15.14
Allocated returns to owned inputs:	
Return to operating capital	1.12
Return to other nonland capital	3.31
Net land return	12.06
Unpaid labor	3.99
Total, economic costs	72.56
Residual returns to management and risk (excl. direct Gov't payments)	-5.02
=====	
Harvest-period price (dollars/bu.)	2.17
Yield (bu./planted acre)	30.82
=====	
All costs and returns are preliminary as of 9/1/88.	

Table 26--Florida peanut production costs
per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	640.64
Secondary crop	6.84
Total	647.48
=====	
Cash expenses:	
Seed	84.23
Fertilizer	20.79
Lime and gypsum	19.74
Chemicals	89.59
Custom operations	8.19
Fuel, lube, and electricity	22.04
Repairs	15.86
Hired labor	26.88
Drying	43.26
Technical services	1.49
Total, variable cash expenses	332.07
General farm overhead	34.45
Taxes and insurance	12.73
Interest on operating loans	20.14
Interest on real estate	27.52
Total, fixed cash expenses	94.84
Total, cash expenses	426.91
Gross value less cash expenses (excl. direct Gov't payments)	220.57
Capital replacement	41.75
Gross value less cash expenses and replacement (excl. direct Gov't payments)	178.82
=====	
Economic (full ownership) costs:	
Variable cash expenses	332.07
General farm overhead	34.45
Taxes and insurance	12.73
Capital replacement	41.75
Allocated returns to owned inputs:	
Return to operating capital	7.85
Return to other nonland capital	8.89
Net land return	61.99
Unpaid labor	29.13
Total, economic costs	528.86
Residual returns to management and risk (excl. direct Gov't payments)	118.62
=====	
Harvest-period price (dollars/lb.)	.27
Yield (lbs./planted acre)	2408.42
=====	
All costs and returns are preliminary as of 9/1/88.	

Table 27--Georgia corn production costs
per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	159.32
Total	159.32
=====	
Cash expenses:	
Seed	16.63
Fertilizer	45.59
Lime and gypsum	4.74
Chemicals	15.11
Custom operations	8.99
Fuel, lube, and electricity	13.76
Repairs	12.21
Hired labor	4.75
Drying	1.90
Technical services	.19
Total, variable cash expenses	123.87
General farm overhead	8.48
Taxes and insurance	8.75
Interest on operating loans	4.95
Interest on real estate	6.77
Total, fixed cash expenses	28.95
Total, cash expenses	152.82
Gross value less cash expenses (excl. direct Gov't payments)	6.50
Capital replacement	24.62
Gross value less cash expenses and replacement (excl. direct Gov't payments)	-18.12
=====	
Economic (full ownership) costs:	
Variable cash expenses	123.87
General farm overhead	8.48
Taxes and insurance	8.75
Capital replacement	24.62
Allocated returns to owned inputs:	
Return to operating capital	3.22
Return to other nonland capital	5.21
Net land return	20.84
Unpaid labor	13.51
Total, economic costs	208.50
Residual returns to management and risk (excl. direct Gov't payments)	-49.18
=====	
Harvest-period price (dollars/bu.)	1.99
Yield (bu./planted acre)	80.06

All costs and returns are preliminary as of 9/1/88.

Table 28--Georgia wheat production costs
per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	63.79
Secondary crop	3.35
Total	67.14
=====	
Cash expenses:	
Seed	12.60
Fertilizer	26.23
Chemicals	1.48
Custom operations	2.44
Fuel, lube, and electricity	6.29
Repairs	6.21
Hired labor	3.09
Total, variable cash expenses	58.34
General farm overhead	3.57
Taxes and insurance	12.86
Interest on operating loans	2.09
Interest on real estate	2.85
Total, fixed cash expenses	21.37
Total, cash expenses	79.71
Gross value less cash expenses (excl. direct Gov't payments)	-12.57
Capital replacement	14.61
Gross value less cash expenses and replacement (excl. direct Gov't payments)	-27.18
=====	
Economic (full ownership) costs:	
Variable cash expenses	58.34
General farm overhead	3.57
Taxes and insurance	12.86
Capital replacement	14.61
Allocated returns to owned inputs:	
Return to operating capital	1.91
Return to other nonland capital	2.96
Net land return	12.38
Unpaid labor	6.87
Total, economic costs	113.50
Residual returns to management and risk (excl. direct Gov't payments)	-46.36
=====	
Harvest-period price (dollars/bu.)	2.46
Yield (bu./planted acre)	25.93

All costs and returns are preliminary as of 9/1/88.

Table 29--Georgia soybean production costs per planted acre

Item	1987
Dollars	
Gross value (excl. direct Gov't. payments):	
Primary crop	94.68
Total	94.68
Cash expenses:	
Seed	11.64
Fertilizer	14.44
Chemicals	18.16
Custom operations	9.55
Fuel, lube, and electricity	10.23
Repairs	9.51
Hired labor	2.59
Total, variable cash expenses	76.12
General farm overhead	5.04
Taxes and insurance	9.51
Interest on operating loans	2.94
Interest on real estate	4.02
Total, fixed cash expenses	21.51
Total, cash expenses	97.63
Gross value less cash expenses (excl. direct Gov't payments)	-2.95
Capital replacement	26.31
Gross value less cash expenses and replacement (excl. direct Gov't payments)	-29.26
Economic (full ownership) costs:	
Variable cash expenses	76.12
General farm overhead	5.04
Taxes and insurance	9.51
Capital replacement	26.31
Allocated returns to owned inputs:	
Return to operating capital	1.96
Return to other nonland capital	5.25
Net land return	14.23
Unpaid labor	9.73
Total, economic costs	148.15
Residual returns to management and risk (excl. direct Gov't payments)	-53.47
Harvest-period price (dollars/bu.)	5.26
Yield (bu./planted acre)	18.00

All costs and returns are preliminary as of 9/1/88.

Table 30--Georgia peanut production costs per planted acre

Item	1987
Dollars	
Gross value (excl. direct Gov't. payments):	
Primary crop	664.72
Secondary crop	15.11
Total	679.83
Cash expenses:	
Seed	90.72
Fertilizer	18.40
Lime and gypsum	18.17
Chemicals	109.92
Custom operations	4.36
Fuel, lube, and electricity	21.87
Repairs	15.77
Hired labor	15.00
Drying	31.16
Technical services	1.31
Total, variable cash expenses	326.68
General farm overhead	36.17
Taxes and insurance	12.34
Interest on operating loans	21.14
Interest on real estate	28.89
Total, fixed cash expenses	98.54
Total, cash expenses	425.22
Gross value less cash expenses (excl. direct Gov't payments)	254.61
Capital replacement	44.77
Gross value less cash expenses and replacement (excl. direct Gov't payments)	209.84
Economic (full ownership) costs:	
Variable cash expenses	326.68
General farm overhead	36.17
Taxes and insurance	12.34
Capital replacement	44.77
Allocated returns to owned inputs:	
Return to operating capital	7.87
Return to other nonland capital	9.69
Net land return	75.70
Unpaid labor	16.25
Total, economic costs	529.47
Residual returns to management and risk (excl. direct Gov't payments)	150.36
Harvest-period price (dollars/lb.)	.27
Yield (lbs./planted acre)	2480.31

All costs and returns are preliminary as of 9/1/88.

Table 31--Georgia cotton production costs per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	421.71
Secondary crop	40.12
Total	461.83
=====	
Cash expenses:	
Seed	6.44
Fertilizer	31.67
Lime and gypsum	4.03
Chemicals	123.68
Custom operations	9.58
Fuel, lube, and electricity	19.08
Repairs	21.12
Hired labor	18.51
Ginning	56.53
Technical services	3.11
Total, variable cash expenses	293.75
General farm overhead	24.57
Taxes and insurance	14.91
Interest on operating loans	14.36
Interest on real estate	19.63
Total, fixed cash expenses	73.47
Total, cash expenses	367.22
Gross value less cash expenses (excl. direct Gov't payments)	94.61
Capital replacement	62.04
Gross value less cash expenses and replacement (excl. direct Gov't payments)	32.57
=====	
Economic (full ownership) costs:	
Variable cash expenses	293.75
General farm overhead	24.57
Taxes and insurance	14.91
Capital replacement	62.04
Allocated returns to owned inputs:	
Return to operating capital	4.65
Return to other nonland capital	12.74
Net land return	33.99
Unpaid labor	7.56
Total, economic costs	454.21
Residual returns to management and risk (excl. direct Gov't payments)	7.62
=====	
Harvest-period price (dollars/lb.)	.65
Yield (lbs./planted acre)	652.80
=====	

All costs and returns are preliminary as of 9/1/88.

Table 32--Idaho barley (after crop) production costs per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	120.88
Secondary crop	1.05
Total	121.93
=====	
Cash expenses:	
Seed	5.73
Fertilizer	12.18
Chemicals	7.04
Custom operations	.79
Fuel, lube, and electricity	6.44
Repairs	9.92
Hired labor	4.08
Total, variable cash expenses	46.18
General farm overhead	11.00
Taxes and insurance	8.66
Interest on operating loans	5.94
Interest on real estate	17.73
Total, fixed cash expenses	43.33
Total, cash expenses	89.51
Gross value less cash expenses (excl. direct Gov't payments)	32.42
Capital replacement	24.78
Gross value less cash expenses and replacement (excl. direct Gov't payments)	7.64
=====	
Economic (full ownership) costs:	
Variable cash expenses	46.18
General farm overhead	11.00
Taxes and insurance	8.66
Capital replacement	24.78
Allocated returns to owned inputs:	
Return to operating capital	.76
Return to other nonland capital	5.55
Net land return	35.62
Unpaid labor	4.60
Total, economic costs	137.15
Residual returns to management and risk (excl. direct Gov't payments)	-15.22
=====	
Harvest-period price (dollars/bu.)	2.44
Yield (bu./planted acre)	49.54
=====	

All costs and returns are preliminary as of 9/1/88.

Table 33--Idaho barley (after fallow) production costs per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	88.89
Secondary crop	1.47
Total	90.36
=====	
Cash expenses:	
Seed	5.14
Fertilizer	9.89
Chemicals	3.14
Custom operations	4.47
Fuel, lube, and electricity	6.35
Repairs	8.25
Hired labor	4.65
Technical services	.12
Total, variable cash expenses	42.01
General farm overhead	8.15
Taxes and insurance	8.61
Interest on operating loans	4.40
Interest on real estate	13.14
Total, fixed cash expenses	34.30
Total, cash expenses	76.31
Gross value less cash expenses (excl. direct Gov't payments)	14.05
Capital replacement	19.34
Gross value less cash expenses and replacement (excl. direct Gov't payments)	-5.29
=====	
Economic (full ownership) costs:	
Variable cash expenses	42.01
General farm overhead	8.15
Taxes and insurance	8.61
Capital replacement	19.34
Allocated returns to owned inputs:	
Return to operating capital	.81
Return to other nonland capital	4.15
Net land return	28.13
Unpaid labor	5.24
Total, economic costs	116.44
Residual returns to management and risk (excl. direct Gov't payments)	-26.08
=====	
Harvest-period price (dollars/bu.)	2.44
Yield (bu./planted acre)	36.43

All costs and returns are preliminary as of 9/1/88.

Table 34--Idaho barley (irrigated) production costs per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	232.41
Secondary crop	9.22
Total	241.63
=====	
Cash expenses:	
Seed	8.05
Fertilizer	21.18
Chemicals	5.75
Custom operations	6.69
Fuel, lube, and electricity	21.76
Repairs	18.24
Hired labor	10.01
Technical services	.14
Total, variable cash expenses	91.82
General farm overhead	21.79
Taxes and insurance	13.91
Interest on operating loans	11.77
Interest on real estate	35.13
Total, fixed cash expenses	82.60
Total, cash expenses	174.42
Gross value less cash expenses (excl. direct Gov't payments)	67.21
Capital replacement	39.66
Gross value less cash expenses and replacement (excl. direct Gov't payments)	27.55
=====	
Economic (full ownership) costs:	
Variable cash expenses	91.82
General farm overhead	21.79
Taxes and insurance	13.91
Capital replacement	39.66
Allocated returns to owned inputs:	
Return to operating capital	1.45
Return to other nonland capital	8.57
Net land return	47.98
Unpaid labor	11.29
Total, economic costs	236.47
Residual returns to management and risk (excl. direct Gov't payments)	5.16
=====	
Harvest-period price (dollars/bu.)	2.44
Yield (bu./planted acre)	95.25

All costs and returns are preliminary as of 9/1/88.

Table 35--Idaho wheat production costs
per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	168.88
Secondary crop	1.59
Total	170.47
=====	
Cash expenses:	
Seed	10.33
Fertilizer	28.78
Chemicals	11.85
Custom operations	3.90
Fuel, lube, and electricity	23.11
Repairs	12.99
Hired labor	5.79
Total, variable cash expenses	96.75
General farm overhead	15.38
Taxes and insurance	12.87
Interest on operating loans	8.30
Interest on real estate	24.79
Total, fixed cash expenses	61.34
Total, cash expenses	158.09
Gross value less cash expenses (excl. direct Gov't payments)	12.38
Capital replacement	35.14
Gross value less cash expenses and replacement (excl. direct Gov't payments)	-22.76
=====	
Economic (full ownership) costs:	
Variable cash expenses	96.75
General farm overhead	15.38
Taxes and insurance	12.87
Capital replacement	35.14
Allocated returns to owned inputs:	
Return to operating capital	3.87
Return to other nonland capital	8.14
Net land return	67.68
Unpaid labor	12.89
Total, economic costs	252.72
Residual returns to management and risk (excl. direct Gov't payments)	-82.25
=====	
Harvest-period price (dollars/bu.)	2.39
Yield (bu./planted acre)	70.66

All costs and returns are preliminary as of 9/1/88.	

Table 36--Illinois corn production costs
per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	221.52
Total	221.52
=====	
Cash expenses:	
Seed	16.90
Fertilizer	48.00
Lime and gypsum	2.16
Chemicals	19.43
Custom operations	9.23
Fuel, lube, and electricity	9.23
Repairs	9.83
Hired labor	3.82
Drying	7.29
Technical services	3.80
Total, variable cash expenses	129.69
General farm overhead	13.23
Taxes and insurance	24.73
Interest on operating loans	7.69
Interest on real estate	16.64
Total, fixed cash expenses	62.29
Total, cash expenses	191.98
Gross value less cash expenses (excl. direct Gov't payments)	29.54
Capital replacement	36.20
Gross value less cash expenses and replacement (excl. direct Gov't payments)	-6.66
=====	
Economic (full ownership) costs:	
Variable cash expenses	129.69
General farm overhead	13.23
Taxes and insurance	24.73
Capital replacement	36.20
Allocated returns to owned inputs:	
Return to operating capital	3.27
Return to other nonland capital	7.80
Net land return	40.70
Unpaid labor	10.89
Total, economic costs	266.51
Residual returns to management and risk (excl. direct Gov't payments)	-44.99
=====	
Harvest-period price (dollars/bu.)	1.68
Yield (bu./planted acre)	131.86

All costs and returns are preliminary as of 9/1/88.	

Table 37--Illinois oats production costs
per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	8.17
Secondary crop	43.74
Total	51.91
Cash expenses:	
Seed	7.33
Fertilizer	8.84
Lime and gypsum	1.90
Chemicals	.26
Custom operations	.85
Fuel, lube, and electricity	4.27
Repairs	2.87
Hired labor	1.10
Total, variable cash expenses	27.42
General farm overhead	3.10
Taxes and insurance	20.46
Interest on operating loans	1.80
Interest on real estate	3.90
Total, fixed cash expenses	29.26
Total, cash expenses	56.68
Gross value less cash expenses (excl. direct Gov't payments)	-4.77
Capital replacement	9.48
Gross value less cash expenses and replacement (excl. direct Gov't payments)	-14.25
Economic (full ownership) costs:	
Variable cash expenses	27.42
General farm overhead	3.10
Taxes and insurance	20.46
Capital replacement	9.48
Allocated returns to owned inputs:	
Return to operating capital	.53
Return to other nonland capital	2.45
Net land return	10.18
Unpaid labor	8.03
Total, economic costs	81.65
Residual returns to management and risk (excl. direct Gov't payments)	-29.74
Harvest-period price (dollars/bu.)	1.31
Yield (bu./planted acre)	6.24

All costs and returns are preliminary as of 9/1/88.

Table 38--Illinois wheat production costs
per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	118.20
Secondary crop	6.23
Total	124.43
Cash expenses:	
Seed	11.56
Fertilizer	29.90
Chemicals	1.71
Custom operations	2.18
Fuel, lube, and electricity	5.57
Repairs	4.90
Hired labor	3.02
Technical services	.06
Total, variable cash expenses	58.90
General farm overhead	7.43
Taxes and insurance	12.37
Interest on operating loans	4.32
Interest on real estate	9.35
Total, fixed cash expenses	33.47
Total, cash expenses	92.37
Gross value less cash expenses (excl. direct Gov't payments)	32.06
Capital replacement	17.97
Gross value less cash expenses and replacement (excl. direct Gov't payments)	14.09
Economic (full ownership) costs:	
Variable cash expenses	58.90
General farm overhead	7.43
Taxes and insurance	12.37
Capital replacement	17.97
Allocated returns to owned inputs:	
Return to operating capital	2.75
Return to other nonland capital	4.06
Net land return	36.93
Unpaid labor	6.73
Total, economic costs	147.14
Residual returns to management and risk (excl. direct Gov't payments)	-22.71
Harvest-period price (dollars/bu.)	2.32
Yield (bu./planted acre)	50.95

All costs and returns are preliminary as of 9/1/88.

Table 39--Illinois soybean production costs per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	191.56
Total	191.56
=====	
Cash expenses:	
Seed	13.13
Fertilizer	4.05
Lime and gypsum	.13
Chemicals	12.75
Custom operations	1.11
Fuel, lube, and electricity	8.15
Repairs	5.79
Hired labor	2.33
Technical services	.11
Total, variable cash expenses	47.55
General farm overhead	11.44
Taxes and insurance	20.21
Interest on operating loans	6.65
Interest on real estate	14.39
Total, fixed cash expenses	52.69
Total, cash expenses	100.24
Gross value less cash expenses (excl. direct Gov't payments)	91.32
Capital replacement	32.00
Gross value less cash expenses and replacement (excl. direct Gov't payments)	59.32
=====	
Economic (full ownership) costs:	
Variable cash expenses	47.55
General farm overhead	11.44
Taxes and insurance	20.21
Capital replacement	32.00
Allocated returns to owned inputs:	
Return to operating capital	1.14
Return to other nonland capital	6.06
Net land return	51.32
Unpaid labor	8.76
Total, economic costs	178.48
Residual returns to management and risk (excl. direct Gov't payments)	13.08
=====	
Harvest-period price (dollars/bu.)	5.10
Yield (bu./planted acre)	37.56

All costs and returns are preliminary as of 9/1/88.

Table 40--Indiana corn production costs per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	230.35
Total	230.35
=====	
Cash expenses:	
Seed	16.59
Fertilizer	46.12
Lime and gypsum	.89
Chemicals	19.64
Custom operations	4.76
Fuel, lube, and electricity	9.35
Repairs	10.16
Hired labor	4.30
Drying	7.45
Technical services	.35
Total, variable cash expenses	119.60
General farm overhead	13.75
Taxes and insurance	17.97
Interest on operating loans	7.99
Interest on real estate	17.30
Total, fixed cash expenses	57.01
Total, cash expenses	176.61
Gross value less cash expenses (excl. direct Gov't payments)	53.74
Capital replacement	35.41
Gross value less cash expenses and replacement (excl. direct Gov't payments)	18.33
=====	
Economic (full ownership) costs:	
Variable cash expenses	119.60
General farm overhead	13.75
Taxes and insurance	17.97
Capital replacement	35.41
Allocated returns to owned inputs:	
Return to operating capital	3.00
Return to other nonland capital	7.73
Net land return	62.07
Unpaid labor	12.23
Total, economic costs	271.76
Residual returns to management and risk (excl. direct Gov't payments)	-41.41
=====	
Harvest-period price (dollars/bu.)	1.71
Yield (bu./planted acre)	134.71

All costs and returns are preliminary as of 9/1/88.

Table 41--Indiana oats production costs
per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	13.47
Secondary crop	14.27
Total	27.74
=====	
Cash expenses:	
Seed	6.94
Fertilizer	17.62
Lime and gypsum	.63
Chemicals	.69
Custom operations	1.23
Fuel, lube, and electricity	4.72
Repairs	3.54
Hired labor	1.44
Technical services	.07
Total, variable cash expenses	36.88
General farm overhead	1.66
Taxes and insurance	13.24
Interest on operating loans	.96
Interest on real estate	2.08
Total, fixed cash expenses	17.94
Total, cash expenses	54.82
Gross value less cash expenses (excl. direct Gov't payments)	-27.08
Capital replacement	11.72
Gross value less cash expenses and replacement (excl. direct Gov't payments)	-38.80
=====	
Economic (full ownership) costs:	
Variable cash expenses	36.88
General farm overhead	1.66
Taxes and insurance	13.24
Capital replacement	11.72
Allocated returns to owned inputs:	
Return to operating capital	.64
Return to other nonland capital	2.77
Net land return	5.35
Unpaid labor	10.57
Total, economic costs	82.83
Residual returns to management and risk (excl. direct Gov't payments)	-55.09
=====	
Harvest-period price (dollars/bu.)	1.27
Yield (bu./planted acre)	10.61

All costs and returns are preliminary as of 9/1/88.

Table 42--Indiana wheat production costs
per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	107.65
Secondary crop	14.25
Total	121.90
=====	
Cash expenses:	
Seed	9.41
Fertilizer	16.36
Chemicals	2.80
Custom operations	1.22
Fuel, lube, and electricity	6.77
Repairs	5.65
Hired labor	3.31
Total, variable cash expenses	45.51
General farm overhead	7.28
Taxes and insurance	13.07
Interest on operating loans	4.23
Interest on real estate	9.15
Total, fixed cash expenses	33.73
Total, cash expenses	79.24
Gross value less cash expenses (excl. direct Gov't payments)	42.66
Capital replacement	23.54
Gross value less cash expenses and replacement (excl. direct Gov't payments)	19.12
=====	
Economic (full ownership) costs:	
Variable cash expenses	45.51
General farm overhead	7.28
Taxes and insurance	13.07
Capital replacement	23.54
Allocated returns to owned inputs:	
Return to operating capital	1.87
Return to other nonland capital	5.65
Net land return	46.85
Unpaid labor	7.35
Total, economic costs	151.13
Residual returns to management and risk (excl. direct Gov't payments)	-29.23
=====	
Harvest-period price (dollars/bu.)	2.32
Yield (bu./planted acre)	46.40

All costs and returns are preliminary as of 9/1/88.

Table 43--Indiana soybean production costs per planted acre

Item	1987
Dollars	
Gross value (excl. direct Gov't. payments):	
Primary crop	198.44
Total	198.44
Cash expenses:	
Seed	11.77
Fertilizer	8.84
Lime and gypsum	.51
Chemicals	17.12
Custom operations	3.33
Fuel, lube, and electricity	9.33
Repairs	6.43
Hired labor	3.05
Technical services	.17
Total, variable cash expenses	60.55
General farm overhead	11.85
Taxes and insurance	13.18
Interest on operating loans	6.89
Interest on real estate	14.90
Total, fixed cash expenses	46.82
Total, cash expenses	107.37
Gross value less cash expenses (excl. direct Gov't payments)	91.07
Capital replacement	34.02
Gross value less cash expenses and replacement (excl. direct Gov't payments)	57.05
Economic (full ownership) costs:	
Variable cash expenses	60.55
General farm overhead	11.85
Taxes and insurance	13.18
Capital replacement	34.02
Allocated returns to owned inputs:	
Return to operating capital	1.42
Return to other nonland capital	6.34
Net land return	54.42
Unpaid labor	11.46
Total, economic costs	193.24
Residual returns to management and risk (excl. direct Gov't payments)	5.20
Harvest-period price (dollars/bu.)	5.02
Yield (bu./planted acre)	39.53

All costs and returns are preliminary as of 9/1/88.

Table 44--Iowa corn production costs per planted acre

Item	1987
Dollars	
Gross value (excl. direct Gov't. payments):	
Primary crop	199.60
Total	199.60
Cash expenses:	
Seed	16.61
Fertilizer	36.80
Lime and gypsum	1.02
Chemicals	20.70
Custom operations	5.39
Fuel, lube, and electricity	9.67
Repairs	10.36
Hired labor	4.08
Drying	7.46
Total, variable cash expenses	112.09
General farm overhead	11.92
Taxes and insurance	17.49
Interest on operating loans	6.93
Interest on real estate	14.99
Total, fixed cash expenses	51.33
Total, cash expenses	163.42
Gross value less cash expenses (excl. direct Gov't payments)	36.18
Capital replacement	35.97
Gross value less cash expenses and replacement (excl. direct Gov't payments)	.21
Economic (full ownership) costs:	
Variable cash expenses	112.09
General farm overhead	11.92
Taxes and insurance	17.49
Capital replacement	35.97
Allocated returns to owned inputs:	
Return to operating capital	2.73
Return to other nonland capital	8.02
Net land return	53.44
Unpaid labor	11.62
Total, economic costs	253.28
Residual returns to management and risk (excl. direct Gov't payments)	-53.68
Harvest-period price (dollars/bu.)	1.54
Yield (bu./planted acre)	129.61

All costs and returns are preliminary as of 9/1/88.

Table 45--Iowa oats production costs per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	12.94
Secondary crop	24.80
Total	37.74
Cash expenses:	
Seed	10.25
Fertilizer	6.95
Lime and gypsum	1.02
Chemicals	.16
Custom operations	1.55
Fuel, lube, and electricity	4.77
Repairs	3.39
Hired labor	1.28
Technical services	.07
Total, variable cash expenses	29.44
General farm overhead	2.25
Taxes and insurance	14.60
Interest on operating loans	1.31
Interest on real estate	2.83
Total, fixed cash expenses	20.99
Total, cash expenses	50.43
Gross value less cash expenses (excl. direct Gov't payments)	-12.69
Capital replacement	10.91
Gross value less cash expenses and replacement (excl. direct Gov't payments)	-23.60
Economic (full ownership) costs:	
Variable cash expenses	29.44
General farm overhead	2.25
Taxes and insurance	14.60
Capital replacement	10.91
Allocated returns to owned inputs:	
Return to operating capital	.54
Return to other nonland capital	2.65
Net land return	14.94
Unpaid labor	9.43
Total, economic costs	84.76
Residual returns to management and risk (excl. direct Gov't payments)	-47.02
Harvest-period price (dollars/bu.)	1.52
Yield (bu./planted acre)	8.51

All costs and returns are preliminary as of 9/1/88.

Table 46--Iowa soybean production costs per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	214.42
Total	214.42
Cash expenses:	
Seed	12.90
Fertilizer	.78
Lime and gypsum	.25
Chemicals	13.18
Custom operations	6.17
Fuel, lube, and electricity	10.44
Repairs	5.86
Hired labor	2.70
Technical services	.02
Total, variable cash expenses	52.30
General farm overhead	12.80
Taxes and insurance	18.00
Interest on operating loans	7.44
Interest on real estate	16.10
Total, fixed cash expenses	54.34
Total, cash expenses	106.64
Gross value less cash expenses (excl. direct Gov't payments)	107.78
Capital replacement	33.76
Gross value less cash expenses and replacement (excl. direct Gov't payments)	74.02
Economic (full ownership) costs:	
Variable cash expenses	52.30
General farm overhead	12.80
Taxes and insurance	18.00
Capital replacement	33.76
Allocated returns to owned inputs:	
Return to operating capital	1.20
Return to other nonland capital	6.38
Net land return	64.89
Unpaid labor	10.18
Total, economic costs	199.51
Residual returns to management and risk (excl. direct Gov't payments)	14.91
Harvest-period price (dollars/bu.)	4.96
Yield (bu./planted acre)	43.23

All costs and returns are preliminary as of 9/1/88.

Table 47--Kansas corn (dryland) production costs per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	167.64
Total	167.64
=====	
Cash expenses:	
Seed	14.38
Fertilizer	26.68
Lime and gypsum	.81
Chemicals	19.67
Custom operations	4.78
Fuel, lube, and electricity	7.15
Repairs	8.29
Hired labor	2.98
Drying	1.18
Technical services	.15
Total, variable cash expenses	86.07
General farm overhead	12.77
Taxes and insurance	9.56
Interest on operating loans	6.91
Interest on real estate	14.03
Total, fixed cash expenses	43.27
Total, cash expenses	129.34
Gross value less cash expenses (excl. direct Gov't payments)	38.30
Capital replacement	24.97
Gross value less cash expenses and replacement (excl. direct Gov't payments)	13.33
=====	
Economic (full ownership) costs:	
Variable cash expenses	86.07
General farm overhead	12.77
Taxes and insurance	9.56
Capital replacement	24.97
Allocated returns to owned inputs:	
Return to operating capital	2.25
Return to other nonland capital	5.82
Net land return	47.96
Unpaid labor	8.49
Total, economic costs	197.90
Residual returns to management and risk (excl. direct Gov't payments)	-30.26
=====	
Harvest-period price (dollars/bu.)	1.73
Yield (bu./planted acre)	96.90

All costs and returns are preliminary as of 9/1/88.

Table 48--Kansas corn (irrigated) production costs per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	308.25
Total	308.25
=====	
Cash expenses:	
Seed	18.97
Fertilizer	33.81
Chemicals	32.58
Custom operations	8.84
Fuel, lube, and electricity	64.90
Repairs	27.37
Hired labor	7.23
Drying	3.75
Technical services	1.99
Total, variable cash expenses	199.44
General farm overhead	23.49
Taxes and insurance	16.36
Interest on operating loans	12.70
Interest on real estate	25.80
Total, fixed cash expenses	78.35
Total, cash expenses	277.79
Gross value less cash expenses (excl. direct Gov't payments)	30.46
Capital replacement	63.54
Gross value less cash expenses and replacement (excl. direct Gov't payments)	-33.08
=====	
Economic (full ownership) costs:	
Variable cash expenses	199.44
General farm overhead	23.49
Taxes and insurance	16.36
Capital replacement	63.54
Allocated returns to owned inputs:	
Return to operating capital	4.76
Return to other nonland capital	14.97
Net land return	57.39
Unpaid labor	20.59
Total, economic costs	400.54
Residual returns to management and risk (excl. direct Gov't payments)	-92.29
=====	
Harvest-period price (dollars/bu.)	1.73
Yield (bu./planted acre)	178.18

All costs and returns are preliminary as of 9/1/88.

Table 49--Kansas grain sorghum production costs per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	94.30
Total	94.30
=====	
Cash expenses:	
Seed	2.73
Fertilizer	14.53
Chemicals	12.35
Custom operations	2.91
Fuel, lube, and electricity	9.35
Repairs	8.15
Hired labor	2.04
Drying	.31
Technical services	.07
Total, variable cash expenses	52.44
General farm overhead	7.19
Taxes and insurance	8.99
Interest on operating loans	3.89
Interest on real estate	7.89
Total, fixed cash expenses	27.96
Total, cash expenses	80.40
Gross value less cash expenses (excl. direct Gov't payments)	13.90
Capital replacement	22.51
Gross value less cash expenses and replacement (excl. direct Gov't payments)	-8.61
=====	
Economic (full ownership) costs:	
Variable cash expenses	52.44
General farm overhead	7.19
Taxes and insurance	8.99
Capital replacement	22.51
Allocated returns to owned inputs:	
Return to operating capital	1.41
Return to other nonland capital	5.22
Net land return	30.21
Unpaid labor	8.17
Total, economic costs	136.14
Residual returns to management and risk (excl. direct Gov't payments)	-41.84
=====	
Harvest-period price (dollars/bu.)	1.37
Yield (bu./planted acre)	68.83

All costs and returns are preliminary as of 9/1/88.

Table 50--Kansas oats production costs per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	37.71
Secondary crop	7.49
Total	45.20
=====	
Cash expenses:	
Seed	5.25
Fertilizer	9.14
Chemicals	.17
Custom operations	2.32
Fuel, lube, and electricity	4.65
Repairs	5.02
Hired labor	1.06
Total, variable cash expenses	27.61
General farm overhead	3.44
Taxes and insurance	6.55
Interest on operating loans	1.86
Interest on real estate	3.78
Total, fixed cash expenses	15.63
Total, cash expenses	43.24
Gross value less cash expenses (excl. direct Gov't payments)	1.96
Capital replacement	12.45
Gross value less cash expenses and replacement (excl. direct Gov't payments)	-10.49
=====	
Economic (full ownership) costs:	
Variable cash expenses	27.61
General farm overhead	3.44
Taxes and insurance	6.55
Capital replacement	12.45
Allocated returns to owned inputs:	
Return to operating capital	.55
Return to other nonland capital	2.92
Net land return	9.75
Unpaid labor	7.80
Total, economic costs	71.07
Residual returns to management and risk (excl. direct Gov't payments)	-25.87
=====	
Harvest-period price (dollars/bu.)	1.39
Yield (bu./planted acre)	27.13

All costs and returns are preliminary as of 9/1/88.

Table 51--Kansas wheat production costs
per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	78.73
Secondary crop	.65
Total	79.38
=====	
Cash expenses:	
Seed	6.28
Fertilizer	8.09
Lime and gypsum	7.20
Chemicals	1.29
Custom operations	4.70
Fuel, lube, and electricity	6.61
Repairs	6.83
Hired labor	2.70
Technical services	.05
Total, variable cash expenses	43.75
General farm overhead	6.05
Taxes and insurance	9.88
Interest on operating loans	3.27
Interest on real estate	6.64
Total, fixed cash expenses	25.84
Total, cash expenses	69.59
Gross value less cash expenses (excl. direct Gov't payments)	9.79
Capital replacement	19.58
Gross value less cash expenses and replacement (excl. direct Gov't payments)	-9.79
=====	
Economic (full ownership) costs:	
Variable cash expenses	43.75
General farm overhead	6.05
Taxes and insurance	9.88
Capital replacement	19.58
Allocated returns to owned inputs:	
Return to operating capital	1.55
Return to other nonland capital	4.55
Net land return	20.18
Unpaid labor	6.02
Total, economic costs	111.56
Residual returns to management and risk (excl. direct Gov't payments)	-32.18
=====	
Harvest-period price (dollars/bu.)	2.30
Yield (bu./planted acre)	34.23

All costs and returns are preliminary as of 9/1/88.

Table 52--Kentucky corn production costs
per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	179.39
Total	179.39
=====	
Cash expenses:	
Seed	14.90
Fertilizer	52.67
Lime and gypsum	4.65
Chemicals	11.96
Custom operations	5.75
Fuel, lube, and electricity	9.92
Repairs	10.82
Hired labor	4.80
Drying	6.41
Technical services	.19
Total, variable cash expenses	122.07
General farm overhead	10.19
Taxes and insurance	7.77
Interest on operating loans	5.44
Interest on real estate	11.45
Total, fixed cash expenses	34.85
Total, cash expenses	156.92
Gross value less cash expenses (excl. direct Gov't payments)	22.47
Capital replacement	26.50
Gross value less cash expenses and replacement (excl. direct Gov't payments)	-4.03
=====	
Economic (full ownership) costs:	
Variable cash expenses	122.07
General farm overhead	10.19
Taxes and insurance	7.77
Capital replacement	26.50
Allocated returns to owned inputs:	
Return to operating capital	2.59
Return to other nonland capital	5.86
Net land return	41.94
Unpaid labor	13.67
Total, economic costs	230.59
Residual returns to management and risk (excl. direct Gov't payments)	-51.20
=====	
Harvest-period price (dollars/bu.)	1.74
Yield (bu./planted acre)	103.10

All costs and returns are preliminary as of 9/1/88.

Table 53--Kentucky wheat production costs per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	79.23
Secondary crop	.80
Total	80.03
Cash expenses:	
Seed	5.50
Fertilizer	34.52
Chemicals	.21
Custom operations	.44
Fuel, lube, and electricity	5.87
Repairs	7.20
Hired labor	2.48
Technical services	.08
Total, variable cash expenses	56.30
General farm overhead	4.55
Taxes and insurance	5.90
Interest on operating loans	2.42
Interest on real estate	5.11
Total, fixed cash expenses	17.98
Total, cash expenses	74.28
Gross value less cash expenses (excl. direct Gov't payments)	5.75
Capital replacement	19.70
Gross value less cash expenses and replacement (excl. direct Gov't payments)	-13.95
Economic (full ownership) costs:	
Variable cash expenses	56.30
General farm overhead	4.55
Taxes and insurance	5.90
Capital replacement	19.70
Allocated returns to owned inputs:	
Return to operating capital	2.14
Return to other nonland capital	4.36
Net land return	39.06
Unpaid labor	5.52
Total, economic costs	137.53
Residual returns to management and risk (excl. direct Gov't payments)	-57.50
Harvest-period price (dollars/bu.)	2.45
Yield (bu./planted acre)	32.34

All costs and returns are preliminary as of 9/1/88.

Table 54--Kentucky soybean production costs per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	124.59
Total	124.59
Cash expenses:	
Seed	10.76
Fertilizer	10.14
Lime and gypsum	1.49
Chemicals	8.91
Custom operations	3.65
Fuel, lube, and electricity	5.15
Repairs	5.65
Hired labor	1.95
Total, variable cash expenses	47.70
General farm overhead	7.08
Taxes and insurance	4.17
Interest on operating loans	3.78
Interest on real estate	7.95
Total, fixed cash expenses	22.98
Total, cash expenses	70.68
Gross value less cash expenses (excl. direct Gov't payments)	53.91
Capital replacement	16.38
Gross value less cash expenses and replacement (excl. direct Gov't payments)	37.53
Economic (full ownership) costs:	
Variable cash expenses	47.70
General farm overhead	7.08
Taxes and insurance	4.17
Capital replacement	16.38
Allocated returns to owned inputs:	
Return to operating capital	1.04
Return to other nonland capital	3.32
Net land return	31.98
Unpaid labor	7.34
Total, economic costs	119.01
Residual returns to management and risk (excl. direct Gov't payments)	5.58
Harvest-period price (dollars/bu.)	5.14
Yield (bu./planted acre)	24.24

All costs and returns are preliminary as of 9/1/88.

Table 55--Louisiana wheat production costs per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	52.92
Total	52.92
=====	
Cash expenses:	
Seed	11.70
Fertilizer	24.16
Lime and gypsum	.40
Chemicals	.69
Custom operations	1.55
Fuel, lube, and electricity	4.11
Repairs	3.52
Hired labor	1.78
Total, variable cash expenses	47.91
General farm overhead	3.16
Taxes and insurance	6.44
Interest on operating loans	2.78
Interest on real estate	2.31
Total, fixed cash expenses	14.69
Total, cash expenses	62.60
Gross value less cash expenses (excl. direct Gov't payments)	-9.68
Capital replacement	12.49
Gross value less cash expenses and replacement (excl. direct Gov't payments)	-22.17
=====	
Economic (full ownership) costs:	
Variable cash expenses	47.91
General farm overhead	3.16
Taxes and insurance	6.44
Capital replacement	12.49
Allocated returns to owned inputs:	
Return to operating capital	1.87
Return to other nonland capital	2.39
Net land return	8.82
Unpaid labor	3.97
Total, economic costs	87.05
Residual returns to management and risk (excl. direct Gov't payments)	-34.13
=====	
Harvest-period price (dollars/bu.)	2.41
Yield (bu./planted acre)	21.96
=====	

All costs and returns are preliminary as of 9/1/88.

Table 56--Louisiana (Southwest) rice production costs per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	211.72
Total	211.72
=====	
Cash expenses:	
Seed	26.52
Fertilizer	29.51
Chemicals	7.04
Custom operations	34.94
Fuel, lube, and electricity	16.19
Repairs	22.37
Hired labor	25.99
Drying	38.12
Technical services	.92
Total, variable cash expenses	201.60
General farm overhead	12.66
Taxes and insurance	9.54
Interest on operating loans	11.12
Interest on real estate	9.25
Total, fixed cash expenses	42.57
Total, cash expenses	244.17
Gross value less cash expenses (excl. direct Gov't payments)	-32.45
Capital replacement	31.98
Gross value less cash expenses and replacement (excl. direct Gov't payments)	-64.43
=====	
Economic (full ownership) costs:	
Variable cash expenses	201.60
General farm overhead	12.66
Taxes and insurance	9.54
Capital replacement	31.98
Allocated returns to owned inputs:	
Return to operating capital	3.71
Return to other nonland capital	7.97
Net land return	41.43
Unpaid labor	18.06
Total, economic costs	326.95
Residual returns to management and risk (excl. direct Gov't payments)	-115.23
=====	
Harvest-period price (dollars/cwt.)	4.79
Yield (cwt./planted acre)	44.20
=====	

All costs and returns are preliminary as of 9/1/88.

Table 57--Louisiana soybean production costs per planted acre

Item	1987
Dollars	
Gross value (excl. direct Gov't. payments):	
Primary crop	121.47
Total	121.47
=====	
Cash expenses:	
Seed	10.65
Fertilizer	12.21
Chemicals	9.90
Custom operations	2.52
Fuel, lube, and electricity	8.11
Repairs	6.11
Hired labor	1.88
Technical services	.01
Total, variable cash expenses	51.39
General farm overhead	7.26
Taxes and insurance	8.17
Interest on operating loans	6.38
Interest on real estate	5.31
Total, fixed cash expenses	27.12
Total, cash expenses	78.51
Gross value less cash expenses (excl. direct Gov't payments)	42.96
Capital replacement	30.39
Gross value less cash expenses and replacement (excl. direct Gov't payments)	12.57
=====	
Economic (full ownership) costs:	
Variable cash expenses	51.39
General farm overhead	7.26
Taxes and insurance	8.17
Capital replacement	30.39
Allocated returns to owned inputs:	
Return to operating capital	1.20
Return to other nonland capital	5.51
Net land return	19.98
Unpaid labor	7.06
Total, economic costs	130.96
Residual returns to management and risk (excl. direct Gov't payments)	-9.49
=====	
Harvest-period price (dollars/bu.)	5.33
Yield (bu./planted acre)	22.79

All costs and returns are preliminary as of 9/1/88.

Table 58--Louisiana cotton production costs per planted acre

Item	1987
Dollars	
Gross value (excl. direct Gov't. payments):	
Primary crop	502.69
Secondary crop	45.52
Total	548.21
=====	
Cash expenses:	
Seed	8.86
Fertilizer	25.79
Lime and gypsum	.50
Chemicals	85.56
Custom operations	64.04
Fuel, lube, and electricity	17.23
Repairs	21.01
Hired labor	16.41
Ginning	64.91
Technical services	3.27
Total, variable cash expenses	307.58
General farm overhead	32.78
Taxes and insurance	10.06
Interest on operating loans	28.78
Interest on real estate	23.96
Total, fixed cash expenses	95.58
Total, cash expenses	403.16
Gross value less cash expenses (excl. direct Gov't payments)	145.05
Capital replacement	46.82
Gross value less cash expenses and replacement (excl. direct Gov't payments)	98.23
=====	
Economic (full ownership) costs:	
Variable cash expenses	307.58
General farm overhead	32.78
Taxes and insurance	10.06
Capital replacement	46.82
Allocated returns to owned inputs:	
Return to operating capital	3.80
Return to other nonland capital	9.87
Net land return	76.91
Unpaid labor	6.70
Total, economic costs	494.52
Residual returns to management and risk (excl. direct Gov't payments)	53.69
=====	
Harvest-period price (dollars/lb.)	.64
Yield (lbs./planted acre)	785.45

All costs and returns are preliminary as of 9/1/88.

Table 59--Maryland corn production costs
per planted acre

Item	1987
Dollars	
Gross value (excl. direct Gov't. payments):	
Primary crop	153.55
Total	153.55
=====	
Cash expenses:	
Seed	16.12
Fertilizer	35.48
Lime and gypsum	8.99
Chemicals	19.09
Custom operations	10.01
Fuel, lube, and electricity	7.78
Repairs	10.39
Hired labor	5.99
Drying	3.90
Technical services	.06
Total, variable cash expenses	117.81
General farm overhead	19.90
Taxes and insurance	14.21
Interest on operating loans	7.49
Interest on real estate	15.48
Total, fixed cash expenses	57.08
Total, cash expenses	174.89
Gross value less cash expenses (excl. direct Gov't payments)	-21.34
Capital replacement	26.53
Gross value less cash expenses and replacement (excl. direct Gov't payments)	-47.87
=====	
Economic (full ownership) costs:	
Variable cash expenses	117.81
General farm overhead	19.90
Taxes and insurance	14.21
Capital replacement	26.53
Allocated returns to owned inputs:	
Return to operating capital	2.63
Return to other nonland capital	6.72
Net land return	40.98
Unpaid labor	17.05
Total, economic costs	245.83
Residual returns to management and risk (excl. direct Gov't payments)	-92.28
=====	
Harvest-period price (dollars/bu.)	1.99
Yield (bu./planted acre)	77.16

All costs and returns are preliminary as of 9/1/88.

Table 60--Michigan corn production costs
per planted acre

Item	1987
Dollars	
Gross value (excl. direct Gov't. payments):	
Primary crop	148.58
Total	148.58
=====	
Cash expenses:	
Seed	15.32
Fertilizer	44.45
Lime and gypsum	.63
Chemicals	17.85
Custom operations	8.05
Fuel, lube, and electricity	8.29
Repairs	7.96
Hired labor	3.30
Drying	4.64
Technical services	.14
Total, variable cash expenses	110.63
General farm overhead	12.76
Taxes and insurance	31.57
Interest on operating loans	6.91
Interest on real estate	13.82
Total, fixed cash expenses	65.06
Total, cash expenses	175.69
Gross value less cash expenses (excl. direct Gov't payments)	-27.11
Capital replacement	32.30
Gross value less cash expenses and replacement (excl. direct Gov't payments)	-59.41
=====	
Economic (full ownership) costs:	
Variable cash expenses	110.63
General farm overhead	12.76
Taxes and insurance	31.57
Capital replacement	32.30
Allocated returns to owned inputs:	
Return to operating capital	2.85
Return to other nonland capital	7.23
Net land return	11.89
Unpaid labor	9.40
Total, economic costs	218.63
Residual returns to management and risk (excl. direct Gov't payments)	-70.05
=====	
Harvest-period price (dollars/bu.)	1.58
Yield (bu./planted acre)	94.04

All costs and returns are preliminary as of 9/1/88.

Table 61--Michigan oats production costs
per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	70.36
Secondary crop	10.29
Total	80.65
=====	
Cash expenses:	
Seed	5.84
Fertilizer	19.65
Lime and gypsum	2.03
Chemicals	1.23
Custom operations	4.79
Fuel, lube, and electricity	7.67
Repairs	7.04
Hired labor	1.99
Technical services	.21
Total, variable cash expenses	50.45
General farm overhead	6.93
Taxes and insurance	29.34
Interest on operating loans	3.75
Interest on real estate	7.50
Total, fixed cash expenses	47.52
Total, cash expenses	97.97
Gross value less cash expenses (excl. direct Gov't payments)	-17.32
Capital replacement	22.17
Gross value less cash expenses and replacement (excl. direct Gov't payments)	-39.49
=====	
Economic (full ownership) costs:	
Variable cash expenses	50.45
General farm overhead	6.93
Taxes and insurance	29.34
Capital replacement	22.17
Allocated returns to owned inputs:	
Return to operating capital	.90
Return to other nonland capital	5.45
Net land return	3.74
Unpaid labor	14.63
Total, economic costs	133.61
Residual returns to management and risk (excl. direct Gov't payments)	-52.96
=====	
Harvest-period price (dollars/bu.)	1.44
Yield (bu./planted acre)	48.86

All costs and returns are preliminary as of 9/1/88.

Table 62--Minnesota corn production costs
per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	181.61
Total	181.61
=====	
Cash expenses:	
Seed	18.67
Fertilizer	31.47
Lime and gypsum	.63
Chemicals	20.09
Custom operations	5.26
Fuel, lube, and electricity	8.47
Repairs	8.57
Hired labor	3.42
Drying	10.73
Technical services	.30
Total, variable cash expenses	107.61
General farm overhead	15.60
Taxes and insurance	13.92
Interest on operating loans	8.44
Interest on real estate	16.89
Total, fixed cash expenses	54.85
Total, cash expenses	162.46
Gross value less cash expenses (excl. direct Gov't payments)	19.15
Capital replacement	35.35
Gross value less cash expenses and replacement (excl. direct Gov't payments)	-16.20
=====	
Economic (full ownership) costs:	
Variable cash expenses	107.61
General farm overhead	15.60
Taxes and insurance	13.92
Capital replacement	35.35
Allocated returns to owned inputs:	
Return to operating capital	2.66
Return to other nonland capital	7.88
Net land return	43.36
Unpaid labor	9.73
Total, economic costs	236.11
Residual returns to management and risk (excl. direct Gov't payments)	-54.50
=====	
Harvest-period price (dollars/bu.)	1.45
Yield (bu./planted acre)	125.25

All costs and returns are preliminary as of 9/1/88.

Table 63--Minnesota barley production costs
per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	57.86
Secondary crop	7.20
Total	65.06
Cash expenses:	
Seed	4.80
Fertilizer	16.22
Chemicals	8.58
Custom operations	1.08
Fuel, lube, and electricity	6.53
Repairs	6.91
Hired labor	4.55
Technical services	.25
Total, variable cash expenses	48.92
General farm overhead	5.59
Taxes and insurance	9.09
Interest on operating loans	3.03
Interest on real estate	6.05
Total, fixed cash expenses	23.76
Total, cash expenses	72.68
Gross value less cash expenses (excl. direct Gov't payments)	-7.62
Capital replacement	25.75
Gross value less cash expenses and replacement (excl. direct Gov't payments)	-33.37
Economic (full ownership) costs:	
Variable cash expenses	48.92
General farm overhead	5.59
Taxes and insurance	9.09
Capital replacement	25.75
Allocated returns to owned inputs:	
Return to operating capital	.71
Return to other nonland capital	5.82
Net land return	19.84
Unpaid labor	5.13
Total, economic costs	120.85
Residual returns to management and risk (excl. direct Gov't payments)	-55.79
Harvest-period price (dollars/bu.)	1.40
Yield (bu./planted acre)	41.33

All costs and returns are preliminary as of 9/1/88.

Table 64--Minnesota oats production costs
per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	29.96
Secondary crop	53.08
Total	83.04
Cash expenses:	
Seed	6.02
Fertilizer	5.99
Chemicals	1.73
Custom operations	1.31
Fuel, lube, and electricity	6.49
Repairs	5.68
Hired labor	1.60
Total, variable cash expenses	28.82
General farm overhead	7.13
Taxes and insurance	10.42
Interest on operating loans	3.86
Interest on real estate	7.72
Total, fixed cash expenses	29.13
Total, cash expenses	57.95
Gross value less cash expenses (excl. direct Gov't payments)	25.09
Capital replacement	17.56
Gross value less cash expenses and replacement (excl. direct Gov't payments)	7.53
Economic (full ownership) costs:	
Variable cash expenses	28.82
General farm overhead	7.13
Taxes and insurance	10.42
Capital replacement	17.56
Allocated returns to owned inputs:	
Return to operating capital	.73
Return to other nonland capital	4.40
Net land return	12.81
Unpaid labor	11.70
Total, economic costs	93.57
Residual returns to management and risk (excl. direct Gov't payments)	-10.53
Harvest-period price (dollars/bu.)	1.38
Yield (bu./planted acre)	21.71

All costs and returns are preliminary as of 9/1/88.

Table 65--Minnesota wheat production costs
per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	88.66
Secondary crop	3.21
Total	91.87
=====	
Cash expenses:	
Seed	9.40
Fertilizer	18.92
Chemicals	4.45
Custom operations	1.07
Fuel, lube, and electricity	7.30
Repairs	7.24
Hired labor	2.60
Technical services	.02
Total, variable cash expenses	51.00
General farm overhead	7.89
Taxes and insurance	12.70
Interest on operating loans	4.27
Interest on real estate	8.54
Total, fixed cash expenses	33.40
Total, cash expenses	84.40
Gross value less cash expenses (excl. direct Gov't payments)	7.47
Capital replacement	30.23
Gross value less cash expenses and replacement (excl. direct Gov't payments)	-22.76
=====	
Economic (full ownership) costs:	
Variable cash expenses	51.00
General farm overhead	7.89
Taxes and insurance	12.70
Capital replacement	30.23
Allocated returns to owned inputs:	
Return to operating capital	.68
Return to other nonland capital	6.80
Net land return	40.68
Unpaid labor	5.80
Total, economic costs	155.78
Residual returns to management and risk (excl. direct Gov't payments)	-63.91
=====	
Harvest-period price (dollars/bu.)	2.23
Yield (bu./planted acre)	39.76

All costs and returns are preliminary as of 9/1/88.

Table 66--Minnesota soybean production costs
per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	187.55
Total	187.55
=====	
Cash expenses:	
Seed	13.32
Fertilizer	1.23
Chemicals	10.52
Custom operations	3.10
Fuel, lube, and electricity	8.96
Repairs	7.80
Hired labor	2.63
Technical services	.02
Total, variable cash expenses	47.58
General farm overhead	16.11
Taxes and insurance	15.73
Interest on operating loans	8.72
Interest on real estate	17.44
Total, fixed cash expenses	58.00
Total, cash expenses	105.58
Gross value less cash expenses (excl. direct Gov't payments)	81.97
Capital replacement	28.65
Gross value less cash expenses and replacement (excl. direct Gov't payments)	53.32
=====	
Economic (full ownership) costs:	
Variable cash expenses	47.58
General farm overhead	16.11
Taxes and insurance	15.73
Capital replacement	28.65
Allocated returns to owned inputs:	
Return to operating capital	1.06
Return to other nonland capital	6.48
Net land return	47.50
Unpaid labor	9.90
Total, economic costs	173.01
Residual returns to management and risk (excl. direct Gov't payments)	14.54
=====	
Harvest-period price (dollars/bu.)	4.86
Yield (bu./planted acre)	38.59

All costs and returns are preliminary as of 9/1/88.

Table 67--Minnesota sunflower production costs
per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	110.14
Total	110.14
=====	
Cash expenses:	
Seed	16.99
Fertilizer	19.26
Chemicals	7.41
Custom operations	.58
Fuel, lube, and electricity	8.17
Repairs	6.46
Hired labor	1.76
Drying	3.66
Technical services	.72
Total, variable cash expenses	65.01
General farm overhead	9.46
Taxes and insurance	10.68
Interest on operating loans	5.12
Interest on real estate	10.24
Total, fixed cash expenses	35.50
Total, cash expenses	100.51
Gross value less cash expenses (excl. direct Gov't payments)	9.63
Capital replacement	28.33
Gross value less cash expenses and replacement (excl. direct Gov't payments)	-18.70
=====	
Economic (full ownership) costs:	
Variable cash expenses	65.01
General farm overhead	9.46
Taxes and insurance	10.68
Capital replacement	28.33
Allocated returns to owned inputs:	
Return to operating capital	1.45
Return to other nonland capital	5.90
Net land return	27.69
Unpaid labor	7.51
Total, economic costs	156.03
Residual returns to management and risk (excl. direct Gov't payments)	-45.89
=====	
Harvest-period price (dollars/cwt.)	7.74
Yield (cwt./planted acre)	14.23

All costs and returns are preliminary as of 9/1/88.

Table 68--Minnesota flaxseed production costs
per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	48.22
Secondary crop	12.77
Total	60.99
=====	
Cash expenses:	
Seed	5.78
Fertilizer	7.27
Chemicals	5.49
Custom operations	3.29
Fuel, lube, and electricity	7.48
Repairs	6.89
Hired labor	2.18
Technical services	.06
Total, variable cash expenses	38.44
General farm overhead	5.24
Taxes and insurance	9.41
Interest on operating loans	2.84
Interest on real estate	5.67
Total, fixed cash expenses	23.16
Total, cash expenses	61.60
Gross value less cash expenses (excl. direct Gov't payments)	-.61
Capital replacement	26.76
Gross value less cash expenses and replacement (excl. direct Gov't payments)	-27.37
=====	
Economic (full ownership) costs:	
Variable cash expenses	38.44
General farm overhead	5.24
Taxes and insurance	9.41
Capital replacement	26.76
Allocated returns to owned inputs:	
Return to operating capital	.70
Return to other nonland capital	6.01
Net land return	9.47
Unpaid labor	9.28
Total, economic costs	105.31
Residual returns to management and risk (excl. direct Gov't payments)	-44.32
=====	
Harvest-period price (dollars/bu.)	3.23
Yield (bu./planted acre)	14.93

All costs and returns are preliminary as of 9/1/88.

Table 69--Mississippi wheat production costs per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	75.91
Total	75.91
=====	
Cash expenses:	
Seed	10.69
Fertilizer	33.20
Chemicals	2.49
Custom operations	5.14
Fuel, lube, and electricity	2.62
Repairs	3.03
Hired labor	.92
Total, variable cash expenses	58.09
General farm overhead	4.54
Taxes and insurance	9.45
Interest on operating loans	3.99
Interest on real estate	3.32
Total, fixed cash expenses	21.30
Total, cash expenses	79.39
Gross value less cash expenses (excl. direct Gov't payments)	-3.48
Capital replacement	15.37
Gross value less cash expenses and replacement (excl. direct Gov't payments)	-18.85
=====	
Economic (full ownership) costs:	
Variable cash expenses	58.09
General farm overhead	4.54
Taxes and insurance	9.45
Capital replacement	15.37
Allocated returns to owned inputs:	
Return to operating capital	2.08
Return to other nonland capital	2.61
Net land return	15.04
Unpaid labor	2.05
Total, economic costs	109.23
Residual returns to management and risk (excl. direct Gov't payments)	-33.32
=====	
Harvest-period price (dollars/bu.)	2.41
Yield (bu./planted acre)	31.50

All costs and returns are preliminary as of 9/1/88.

Table 70--Mississippi Delta (Ark., La., Miss.) rice production costs per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	239.94
Total	239.94
=====	
Cash expenses:	
Seed	23.48
Fertilizer	27.65
Chemicals	12.87
Custom operations	49.01
Fuel, lube, and electricity	41.88
Repairs	22.40
Hired labor	21.09
Drying	30.48
Technical services	5.54
Total, variable cash expenses	234.40
General farm overhead	14.35
Taxes and insurance	12.09
Interest on operating loans	12.60
Interest on real estate	10.49
Total, fixed cash expenses	49.53
Total, cash expenses	283.93
Gross value less cash expenses (excl. direct Gov't payments)	-43.99
Capital replacement	45.78
Gross value less cash expenses and replacement (excl. direct Gov't payments)	-89.77
=====	
Economic (full ownership) costs:	
Variable cash expenses	234.40
General farm overhead	14.35
Taxes and insurance	12.09
Capital replacement	45.78
Allocated returns to owned inputs:	
Return to operating capital	3.80
Return to other nonland capital	11.48
Net land return	23.49
Unpaid labor	14.65
Total, economic costs	360.04
Residual returns to management and risk (excl. direct Gov't payments)	-120.10
=====	
Harvest-period price (dollars/cwt.)	4.98
Yield (cwt./planted acre)	48.18

All costs and returns are preliminary as of 9/1/88.

Table 71--Mississippi soybean production costs
per planted acre

Item	1987
Dollars	
Gross value (excl. direct Gov't. payments):	
Primary crop	103.26
Total	103.26
=====	
Cash expenses:	
Seed	8.32
Fertilizer	7.42
Chemicals	9.11
Custom operations	4.67
Fuel, lube, and electricity	11.55
Repairs	9.33
Hired labor	3.33
Total, variable cash expenses	53.73
General farm overhead	6.17
Taxes and insurance	7.64
Interest on operating loans	5.42
Interest on real estate	4.51
Total, fixed cash expenses	23.74
Total, cash expenses	77.47
Gross value less cash expenses (excl. direct Gov't payments)	25.79
Capital replacement	27.80
Gross value less cash expenses and replacement (excl. direct Gov't payments)	-2.01
=====	
Economic (full ownership) costs:	
Variable cash expenses	53.73
General farm overhead	6.17
Taxes and insurance	7.64
Capital replacement	27.80
Allocated returns to owned inputs:	
Return to operating capital	1.48
Return to other nonland capital	6.52
Net land return	19.53
Unpaid labor	12.53
Total, economic costs	135.40
Residual returns to management and risk (excl. direct Gov't payments)	-32.14
=====	
Harvest-period price (dollars/bu.)	5.51
Yield (bu./planted acre)	18.74

All costs and returns are preliminary as of 9/1/88.

Table 72--Mississippi cotton production costs
per planted acre

Item	1987
Dollars	
Gross value (excl. direct Gov't. payments):	
Primary crop	518.00
Secondary crop	50.45
Total	568.45
=====	
Cash expenses:	
Seed	5.85
Fertilizer	25.53
Lime and gypsum	3.65
Chemicals	107.13
Custom operations	6.60
Fuel, lube, and electricity	19.01
Repairs	21.75
Hired labor	22.11
Ginning	68.00
Technical services	4.03
Total, variable cash expenses	283.66
General farm overhead	33.99
Taxes and insurance	10.66
Interest on operating loans	29.84
Interest on real estate	24.84
Total, fixed cash expenses	99.33
Total, cash expenses	382.99
Gross value less cash expenses (excl. direct Gov't payments)	185.46
Capital replacement	50.65
Gross value less cash expenses and replacement (excl. direct Gov't payments)	134.81
=====	
Economic (full ownership) costs:	
Variable cash expenses	283.66
General farm overhead	33.99
Taxes and insurance	10.66
Capital replacement	50.65
Allocated returns to owned inputs:	
Return to operating capital	4.30
Return to other nonland capital	10.51
Net land return	47.32
Unpaid labor	9.03
Total, economic costs	450.12
Residual returns to management and risk (excl. direct Gov't payments)	118.33
=====	
Harvest-period price (dollars/lb.)	.63
Yield (lbs./planted acre)	823.53

All costs and returns are preliminary as of 9/1/88.

Table 73--Missouri corn production costs
per planted acre

Item	1987
Dollars	
Gross value (excl. direct Gov't. payments):	
Primary crop	174.66
Total	174.66
=====	
Cash expenses:	
Seed	14.51
Fertilizer	33.74
Lime and gypsum	1.02
Chemicals	17.17
Custom operations	3.52
Fuel, lube, and electricity	9.57
Repairs	9.73
Hired labor	3.87
Drying	2.87
Technical services	.06
Total, variable cash expenses	96.06
General farm overhead	10.43
Taxes and insurance	10.42
Interest on operating loans	6.06
Interest on real estate	13.12
Total, fixed cash expenses	40.03
Total, cash expenses	136.09
Gross value less cash expenses (excl. direct Gov't payments)	38.57
Capital replacement	34.71
Gross value less cash expenses and replacement (excl. direct Gov't payments)	3.86
=====	
Economic (full ownership) costs:	
Variable cash expenses	96.06
General farm overhead	10.43
Taxes and insurance	10.42
Capital replacement	34.71
Allocated returns to owned inputs:	
Return to operating capital	2.47
Return to other nonland capital	7.45
Net land return	44.43
Unpaid labor	11.01
Total, economic costs	216.98
Residual returns to management and risk (excl. direct Gov't payments)	-42.32
=====	
Harvest-period price (dollars/bu.)	1.56
Yield (bu./planted acre)	111.96

All costs and returns are preliminary as of 9/1/88.

Table 74--Missouri grain sorghum production costs
per planted acre

Item	1987
Dollars	
Gross value (excl. direct Gov't. payments):	
Primary crop	111.45
Total	111.45
=====	
Cash expenses:	
Seed	4.81
Fertilizer	29.98
Chemicals	9.19
Custom operations	1.57
Fuel, lube, and electricity	6.51
Repairs	5.30
Hired labor	1.85
Drying	2.61
Total, variable cash expenses	61.82
General farm overhead	6.65
Taxes and insurance	7.57
Interest on operating loans	3.87
Interest on real estate	8.37
Total, fixed cash expenses	26.46
Total, cash expenses	88.28
Gross value less cash expenses (excl. direct Gov't payments)	23.17
Capital replacement	23.34
Gross value less cash expenses and replacement (excl. direct Gov't payments)	-.17
=====	
Economic (full ownership) costs:	
Variable cash expenses	61.82
General farm overhead	6.65
Taxes and insurance	7.57
Capital replacement	23.34
Allocated returns to owned inputs:	
Return to operating capital	1.75
Return to other nonland capital	4.77
Net land return	32.46
Unpaid labor	7.40
Total, economic costs	145.76
Residual returns to management and risk (excl. direct Gov't payments)	-34.31
=====	
Harvest-period price (dollars/bu.)	1.33
Yield (bu./planted acre)	83.80

All costs and returns are preliminary as of 9/1/88.

Table 75--Missouri wheat production costs
per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	96.80
Secondary crop	11.74
Total	108.54
=====	
Cash expenses:	
Seed	9.18
Fertilizer	20.46
Chemicals	.85
Custom operations	1.35
Fuel, lube, and electricity	7.99
Repairs	6.79
Hired labor	3.76
Total, variable cash expenses	50.38
General farm overhead	6.48
Taxes and insurance	9.20
Interest on operating loans	3.77
Interest on real estate	8.15
Total, fixed cash expenses	27.60
Total, cash expenses	77.98
Gross value less cash expenses (excl. direct Gov't payments)	30.56
Capital replacement	26.47
Gross value less cash expenses and replacement (excl. direct Gov't payments)	4.09
=====	
Economic (full ownership) costs:	
Variable cash expenses	50.38
General farm overhead	6.48
Taxes and insurance	9.20
Capital replacement	26.47
Allocated returns to owned inputs:	
Return to operating capital	1.73
Return to other nonland capital	5.76
Net land return	29.01
Unpaid labor	8.37
Total, economic costs	137.40
Residual returns to management and risk (excl. direct Gov't payments)	-28.86
=====	
Harvest-period price (dollars/bu.)	2.46
Yield (bu./planted acre)	39.35

All costs and returns are preliminary as of 9/1/88.

Table 76--Missouri soybean production costs
per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	153.28
Total	153.28
=====	
Cash expenses:	
Seed	9.73
Fertilizer	4.87
Chemicals	13.40
Custom operations	6.15
Fuel, lube, and electricity	7.12
Repairs	5.86
Hired labor	2.27
Total, variable cash expenses	49.40
General farm overhead	9.15
Taxes and insurance	7.10
Interest on operating loans	5.32
Interest on real estate	11.51
Total, fixed cash expenses	33.08
Total, cash expenses	82.48
Gross value less cash expenses (excl. direct Gov't payments)	70.80
Capital replacement	26.13
Gross value less cash expenses and replacement (excl. direct Gov't payments)	44.67
=====	
Economic (full ownership) costs:	
Variable cash expenses	49.40
General farm overhead	9.15
Taxes and insurance	7.10
Capital replacement	26.13
Allocated returns to owned inputs:	
Return to operating capital	1.07
Return to other nonland capital	5.19
Net land return	45.44
Unpaid labor	8.52
Total, economic costs	152.00
Residual returns to management and risk (excl. direct Gov't payments)	1.28
=====	
Harvest-period price (dollars/bu.)	4.86
Yield (bu./planted acre)	31.54

All costs and returns are preliminary as of 9/1/88.

Table 77--Missouri cotton production costs per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	536.97
Secondary crop	49.15
Total	586.12
=====	
Cash expenses:	
Seed	9.24
Fertilizer	24.47
Lime and gypsum	.89
Chemicals	25.04
Custom operations	8.36
Fuel, lube, and electricity	16.47
Repairs	20.93
Hired labor	19.10
Ginning	68.15
Technical services	.42
Total, variable cash expenses	193.07
General farm overhead	34.99
Taxes and insurance	13.33
Interest on operating loans	20.34
Interest on real estate	44.02
Total, fixed cash expenses	112.68
Total, cash expenses	305.75
Gross value less cash expenses (excl. direct Gov't payments)	280.37
Capital replacement	45.03
Gross value less cash expenses and replacement (excl. direct Gov't payments)	235.34
=====	
Economic (full ownership) costs:	
Variable cash expenses	193.07
General farm overhead	34.99
Taxes and insurance	13.33
Capital replacement	45.03
Allocated returns to owned inputs:	
Return to operating capital	2.23
Return to other nonland capital	9.33
Net land return	116.98
Unpaid labor	7.80
Total, economic costs	422.76
Residual returns to management and risk (excl. direct Gov't payments)	163.36
=====	
Harvest-period price (dollars/lb.)	.65
Yield (lbs./planted acre)	826.11

All costs and returns are preliminary as of 9/1/88.

Table 78--Montana barley (after crop) production costs per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	67.34
Secondary crop	4.31
Total	71.65
=====	
Cash expenses:	
Seed	2.79
Fertilizer	18.41
Chemicals	6.08
Custom operations	2.58
Fuel, lube, and electricity	3.83
Repairs	6.17
Hired labor	2.77
Technical services	.15
Total, variable cash expenses	42.78
General farm overhead	6.46
Taxes and insurance	6.09
Interest on operating loans	3.49
Interest on real estate	10.42
Total, fixed cash expenses	26.46
Total, cash expenses	69.24
Gross value less cash expenses (excl. direct Gov't payments)	2.41
Capital replacement	20.85
Gross value less cash expenses and replacement (excl. direct Gov't payments)	-18.44
=====	
Economic (full ownership) costs:	
Variable cash expenses	42.78
General farm overhead	6.46
Taxes and insurance	6.09
Capital replacement	20.85
Allocated returns to owned inputs:	
Return to operating capital	.59
Return to other nonland capital	4.30
Net land return	17.87
Unpaid labor	3.12
Total, economic costs	102.06
Residual returns to management and risk (excl. direct Gov't payments)	-30.41
=====	
Harvest-period price (dollars/bu.)	1.84
Yield (bu./planted acre)	36.60

All costs and returns are preliminary as of 9/1/88.

Table 79--Montana barley (after fallow)
production costs per planted acre

Item	1987
Dollars	
Gross value (excl. direct Gov't. payments):	
Primary crop	70.03
Secondary crop	2.95
Total	72.98
=====	
Cash expenses:	
Seed	2.74
Fertilizer	6.40
Chemicals	3.81
Custom operations	2.35
Fuel, lube, and electricity	5.76
Repairs	7.93
Hired labor	4.36
Total, variable cash expenses	33.35
General farm overhead	6.58
Taxes and insurance	8.92
Interest on operating loans	3.55
Interest on real estate	10.61
Total, fixed cash expenses	29.66
Total, cash expenses	63.01
Gross value less cash expenses (excl. direct Gov't payments)	9.97
Capital replacement	23.78
Gross value less cash expenses and replacement (excl. direct Gov't payments)	-13.81
=====	
Economic (full ownership) costs:	
Variable cash expenses	33.35
General farm overhead	6.58
Taxes and insurance	8.92
Capital replacement	23.78
Allocated returns to owned inputs:	
Return to operating capital	.76
Return to other nonland capital	4.85
Net land return	18.19
Unpaid labor	4.92
Total, economic costs	101.35
Residual returns to management and risk (excl. direct Gov't payments)	-28.37
=====	
Harvest-period price (dollars/bu.)	1.84
Yield (bu./planted acre)	38.06
=====	

All costs and returns are preliminary as of 9/1/88.

Table 80--Montana barley (irrigated) production costs
per planted acre

Item	1987
Dollars	
Gross value (excl. direct Gov't. payments):	
Primary crop	131.91
Secondary crop	6.58
Total	138.49
=====	
Cash expenses:	
Seed	3.86
Fertilizer	22.06
Chemicals	3.71
Custom operations	3.51
Fuel, lube, and electricity	13.72
Repairs	15.81
Hired labor	7.28
Total, variable cash expenses	69.95
General farm overhead	12.49
Taxes and insurance	12.42
Interest on operating loans	6.74
Interest on real estate	20.14
Total, fixed cash expenses	51.79
Total, cash expenses	121.74
Gross value less cash expenses (excl. direct Gov't payments)	16.75
Capital replacement	34.40
Gross value less cash expenses and replacement (excl. direct Gov't payments)	-17.65
=====	
Economic (full ownership) costs:	
Variable cash expenses	69.95
General farm overhead	12.49
Taxes and insurance	12.42
Capital replacement	34.40
Allocated returns to owned inputs:	
Return to operating capital	.95
Return to other nonland capital	7.53
Net land return	27.52
Unpaid labor	8.20
Total, economic costs	173.46
Residual returns to management and risk (excl. direct Gov't payments)	-34.97
=====	
Harvest-period price (dollars/bu.)	1.84
Yield (bu./planted acre)	71.69
=====	

All costs and returns are preliminary as of 9/1/88.

Table 81--Montana oats production costs
per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	32.43
Secondary crop	8.57
Total	41.00
=====	
Cash expenses:	
Seed	3.69
Fertilizer	6.16
Chemicals	1.57
Custom operations	2.18
Fuel, lube, and electricity	5.89
Repairs	8.34
Hired labor	1.08
Total, variable cash expenses	28.91
General farm overhead	3.70
Taxes and insurance	6.95
Interest on operating loans	2.00
Interest on real estate	5.96
Total, fixed cash expenses	18.61
Total, cash expenses	47.52
Gross value less cash expenses (excl. direct Gov't payments)	-6.52
Capital replacement	23.83
Gross value less cash expenses and replacement (excl. direct Gov't payments)	-30.35
=====	
Economic (full ownership) costs:	
Variable cash expenses	28.91
General farm overhead	3.70
Taxes and insurance	6.95
Capital replacement	23.83
Allocated returns to owned inputs:	
Return to operating capital	.41
Return to other nonland capital	5.45
Net land return	11.62
Unpaid labor	7.91
Total, economic costs	88.78
Residual returns to management and risk (excl. direct Gov't payments)	-47.78
=====	
Harvest-period price (dollars/bu.)	1.26
Yield (bu./planted acre)	25.74

All costs and returns are preliminary as of 9/1/88.

Table 82--Montana wheat production costs
per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	73.83
Secondary crop	.64
Total	74.47
=====	
Cash expenses:	
Seed	4.67
Fertilizer	8.04
Chemicals	4.69
Custom operations	3.61
Fuel, lube, and electricity	4.67
Repairs	6.17
Hired labor	1.58
Total, variable cash expenses	33.43
General farm overhead	6.72
Taxes and insurance	6.45
Interest on operating loans	3.63
Interest on real estate	10.83
Total, fixed cash expenses	27.63
Total, cash expenses	61.06
Gross value less cash expenses (excl. direct Gov't payments)	13.41
Capital replacement	24.34
Gross value less cash expenses and replacement (excl. direct Gov't payments)	-10.93
=====	
Economic (full ownership) costs:	
Variable cash expenses	33.43
General farm overhead	6.72
Taxes and insurance	6.45
Capital replacement	24.34
Allocated returns to owned inputs:	
Return to operating capital	.79
Return to other nonland capital	5.04
Net land return	20.92
Unpaid labor	3.52
Total, economic costs	101.21
Residual returns to management and risk (excl. direct Gov't payments)	-26.74
=====	
Harvest-period price (dollars/bu.)	2.39
Yield (bu./planted acre)	30.89

All costs and returns are preliminary as of 9/1/88.

Table 83--Nebraska corn (dryland) production costs per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	173.72
Total	173.72
=====	
Cash expenses:	
Seed	13.66
Fertilizer	17.79
Chemicals	13.43
Custom operations	4.50
Fuel, lube, and electricity	7.03
Repairs	8.22
Hired labor	3.41
Drying	4.18
Technical services	.13
Total, variable cash expenses	72.35
General farm overhead	13.24
Taxes and insurance	16.35
Interest on operating loans	7.16
Interest on real estate	14.54
Total, fixed cash expenses	51.29
Total, cash expenses	123.64
Gross value less cash expenses (excl. direct Gov't payments)	50.08
Capital replacement	22.87
Gross value less cash expenses and replacement (excl. direct Gov't payments)	27.21
=====	
Economic (full ownership) costs:	
Variable cash expenses	72.35
General farm overhead	13.24
Taxes and insurance	16.35
Capital replacement	22.87
Allocated returns to owned inputs:	
Return to operating capital	1.86
Return to other nonland capital	5.64
Net land return	52.52
Unpaid labor	9.72
Total, economic costs	194.55
Residual returns to management and risk (excl. direct Gov't payments)	-20.83
=====	
Harvest-period price (dollars/bu.)	1.61
Yield (bu./planted acre)	107.90

All costs and returns are preliminary as of 9/1/88.

Table 84--Nebraska corn (irrigated) production costs per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	251.68
Total	251.68
=====	
Cash expenses:	
Seed	17.70
Fertilizer	33.35
Chemicals	20.00
Custom operations	4.83
Fuel, lube, and electricity	37.41
Repairs	22.82
Hired labor	6.32
Drying	7.21
Technical services	.56
Total, variable cash expenses	150.20
General farm overhead	19.18
Taxes and insurance	25.35
Interest on operating loans	10.37
Interest on real estate	21.07
Total, fixed cash expenses	75.97
Total, cash expenses	226.17
Gross value less cash expenses (excl. direct Gov't payments)	25.51
Capital replacement	54.81
Gross value less cash expenses and replacement (excl. direct Gov't payments)	-29.30
=====	
Economic (full ownership) costs:	
Variable cash expenses	150.20
General farm overhead	19.18
Taxes and insurance	25.35
Capital replacement	54.81
Allocated returns to owned inputs:	
Return to operating capital	3.79
Return to other nonland capital	12.46
Net land return	27.52
Unpaid labor	18.00
Total, economic costs	311.31
Residual returns to management and risk (excl. direct Gov't payments)	-59.63
=====	
Harvest-period price (dollars/bu.)	1.61
Yield (bu./planted acre)	156.32

All costs and returns are preliminary as of 9/1/88.

Table 85--Nebraska grain sorghum production costs
per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	104.52
Total	104.52
Cash expenses:	
Seed	6.23
Fertilizer	12.45
Chemicals	3.29
Custom operations	3.29
Fuel, lube, and electricity	6.95
Repairs	6.87
Hired labor	1.78
Drying	1.34
Technical services	.18
Total, variable cash expenses	48.58
General farm overhead	7.96
Taxes and insurance	10.56
Interest on operating loans	4.31
Interest on real estate	8.75
Total, fixed cash expenses	31.58
Total, cash expenses	80.16
Gross value less cash expenses (excl. direct Gov't payments)	24.36
Capital replacement	20.68
Gross value less cash expenses and replacement (excl. direct Gov't payments)	3.68
Economic (full ownership) costs:	
Variable cash expenses	48.58
General farm overhead	7.96
Taxes and insurance	10.56
Capital replacement	20.68
Allocated returns to owned inputs:	
Return to operating capital	1.38
Return to other nonland capital	4.73
Net land return	15.66
Unpaid labor	7.14
Total, economic costs	116.69
Residual returns to management and risk (excl. direct Gov't payments)	-12.17
Harvest-period price (dollars/bu.)	1.34
Yield (bu./planted acre)	78.00

All costs and returns are preliminary as of 9/1/88.

Table 86--Nebraska oats production costs
per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	30.50
Secondary crop	8.10
Total	38.60
Cash expenses:	
Seed	6.29
Fertilizer	8.26
Chemicals	.12
Custom operations	.82
Fuel, lube, and electricity	4.60
Repairs	4.75
Hired labor	1.07
Technical services	.07
Total, variable cash expenses	25.98
General farm overhead	2.94
Taxes and insurance	13.24
Interest on operating loans	1.59
Interest on real estate	3.23
Total, fixed cash expenses	21.00
Total, cash expenses	46.98
Gross value less cash expenses (excl. direct Gov't payments)	-8.38
Capital replacement	11.87
Gross value less cash expenses and replacement (excl. direct Gov't payments)	-20.25
Economic (full ownership) costs:	
Variable cash expenses	25.98
General farm overhead	2.94
Taxes and insurance	13.24
Capital replacement	11.87
Allocated returns to owned inputs:	
Return to operating capital	.47
Return to other nonland capital	2.84
Net land return	6.39
Unpaid labor	7.85
Total, economic costs	71.58
Residual returns to management and risk (excl. direct Gov't payments)	-32.98
Harvest-period price (dollars/bu.)	1.43
Yield (bu./planted acre)	21.33

All costs and returns are preliminary as of 9/1/88.

Table 87--Nebraska wheat production costs
per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	89.70
Secondary crop	.12
Total	89.82
Cash expenses:	
Seed	5.85
Fertilizer	3.40
Chemicals	.33
Custom operations	4.41
Fuel, lube, and electricity	5.73
Repairs	6.36
Hired labor	2.07
Total, variable cash expenses	28.15
General farm overhead	6.84
Taxes and insurance	12.91
Interest on operating loans	3.70
Interest on real estate	7.52
Total, fixed cash expenses	30.97
Total, cash expenses	59.12
Gross value less cash expenses (excl. direct Gov't payments)	30.70
Capital replacement	19.21
Gross value less cash expenses and replacement (excl. direct Gov't payments)	11.49
Economic (full ownership) costs:	
Variable cash expenses	28.15
General farm overhead	6.84
Taxes and insurance	12.91
Capital replacement	19.21
Allocated returns to owned inputs:	
Return to operating capital	1.16
Return to other nonland capital	4.33
Net land return	22.41
Unpaid labor	4.62
Total, economic costs	99.63
Residual returns to management and risk (excl. direct Gov't payments)	-9.81
Harvest-period price (dollars/bu.)	2.30
Yield (bu./planted acre)	39.00

All costs and returns are preliminary as of 9/1/88.

Table 88--Nebraska soybean production costs
per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	169.88
Total	169.88
Cash expenses:	
Seed	11.65
Fertilizer	3.87
Chemicals	9.75
Custom operations	6.56
Fuel, lube, and electricity	13.16
Repairs	11.57
Hired labor	2.93
Total, variable cash expenses	59.49
General farm overhead	12.94
Taxes and insurance	14.92
Interest on operating loans	7.00
Interest on real estate	14.22
Total, fixed cash expenses	49.08
Total, cash expenses	108.57
Gross value less cash expenses (excl. direct Gov't payments)	61.31
Capital replacement	29.66
Gross value less cash expenses and replacement (excl. direct Gov't payments)	31.65
Economic (full ownership) costs:	
Variable cash expenses	59.49
General farm overhead	12.94
Taxes and insurance	14.92
Capital replacement	29.66
Allocated returns to owned inputs:	
Return to operating capital	1.14
Return to other nonland capital	7.08
Net land return	56.35
Unpaid labor	11.02
Total, economic costs	192.60
Residual returns to management and risk (excl. direct Gov't payments)	-22.72
Harvest-period price (dollars/bu.)	4.89
Yield (bu./planted acre)	34.74

All costs and returns are preliminary as of 9/1/88.

Table 89--New Mexico wheat production costs per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	37.08
Secondary crop	2.08
Total	39.16
Cash expenses:	
Seed	4.65
Fertilizer	2.99
Chemicals	2.38
Custom operations	5.40
Fuel, lube, and electricity	9.99
Repairs	6.24
Hired labor	1.85
Technical services	.13
Total, variable cash expenses	33.63
General farm overhead	3.53
Taxes and insurance	2.65
Interest on operating loans	1.91
Interest on real estate	5.69
Total, fixed cash expenses	13.78
Total, cash expenses	47.41
Gross value less cash expenses (excl. direct Gov't. payments)	-8.25
Capital replacement	14.65
Gross value less cash expenses and replacement (excl. direct Gov't. payments)	-22.90
Economic (full ownership) costs:	
Variable cash expenses	33.63
General farm overhead	3.53
Taxes and insurance	2.65
Capital replacement	14.65
Allocated returns to owned inputs:	
Return to operating capital	1.35
Return to other nonland capital	2.98
Net land return	9.15
Unpaid labor	4.12
Total, economic costs	72.06
Residual returns to management and risk (excl. direct Gov't. payments)	-32.90
Harvest-period price (dollars/bu.)	2.25
Yield (bu./planted acre)	16.48

All costs and returns are preliminary as of 9/1/88.

Table 90--New Mexico cotton (dryland) production costs per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	154.29
Secondary crop	18.13
Total	172.42
Cash expenses:	
Seed	10.03
Fertilizer	1.93
Chemicals	9.10
Custom operations	.17
Fuel, lube, and electricity	10.50
Repairs	10.33
Hired labor	11.40
Ginning	24.82
Total, variable cash expenses	78.28
General farm overhead	15.55
Taxes and insurance	4.25
Interest on operating loans	8.40
Interest on real estate	25.07
Total, fixed cash expenses	53.27
Total, cash expenses	131.55
Gross value less cash expenses (excl. direct Gov't. payments)	40.87
Capital replacement	23.71
Gross value less cash expenses and replacement (excl. direct Gov't. payments)	17.16
Economic (full ownership) costs:	
Variable cash expenses	78.28
General farm overhead	15.55
Taxes and insurance	4.25
Capital replacement	23.71
Allocated returns to owned inputs:	
Return to operating capital	1.39
Return to other nonland capital	4.85
Net land return	41.76
Unpaid labor	4.65
Total, economic costs	174.44
Residual returns to management and risk (excl. direct Gov't. payments)	-2.02
Harvest-period price (dollars/lb.)	.68
Yield (lbs./planted acre)	226.90

All costs and returns are preliminary as of 9/1/88.

Table 91--New Mexico cotton (irrigated)
production costs per planted acre

Item	1987
Dollars	
Gross value (excl. direct Gov't. payments):	
Primary crop	479.33
Secondary crop	56.30
Total	535.63
=====	
Cash expenses:	
Seed	10.87
Fertilizer	14.26
Chemicals	13.18
Custom operations	2.76
Fuel, lube, and electricity	37.54
Repairs	23.75
Hired labor	27.95
Ginning	75.53
Technical services	.49
Total, variable cash expenses	206.33
General farm overhead	48.31
Taxes and insurance	9.84
Interest on operating loans	26.09
Interest on real estate	77.88
Total, fixed cash expenses	162.12
Total, cash expenses	368.45
Gross value less cash expenses (excl. direct Gov't. payments)	167.18
Capital replacement	48.51
Gross value less cash expenses and replacement (excl. direct Gov't. payments)	118.67
=====	
Economic (full ownership) costs:	
Variable cash expenses	206.33
General farm overhead	48.31
Taxes and insurance	9.84
Capital replacement	48.51
Allocated returns to owned inputs:	
Return to operating capital	2.66
Return to other nonland capital	10.22
Net land return	95.58
Unpaid labor	11.41
Total, economic costs	432.86
Residual returns to management and risk (excl. direct Gov't. payments)	102.77
=====	
Harvest-period price (dollars/lb.)	.68
Yield (lbs./planted acre)	704.90

All costs and returns are preliminary as of 9/1/88.

Table 92--New York corn production costs
per planted acre

Item	1987
Dollars	
Gross value (excl. direct Gov't. payments):	
Primary crop	179.36
Total	179.36
=====	
Cash expenses:	
Seed	17.48
Fertilizer	35.86
Lime and gypsum	6.32
Chemicals	19.38
Custom operations	7.78
Fuel, lube, and electricity	9.22
Repairs	11.59
Hired labor	4.11
Drying	6.84
Technical services	.28
Total, variable cash expenses	118.86
General farm overhead	23.25
Taxes and insurance	19.68
Interest on operating loans	8.75
Interest on real estate	18.08
Total, fixed cash expenses	69.76
Total, cash expenses	188.62
Gross value less cash expenses (excl. direct Gov't. payments)	-9.26
Capital replacement	32.63
Gross value less cash expenses and replacement (excl. direct Gov't. payments)	-41.89
=====	
Economic (full ownership) costs:	
Variable cash expenses	118.86
General farm overhead	23.25
Taxes and insurance	19.68
Capital replacement	32.63
Allocated returns to owned inputs:	
Return to operating capital	2.87
Return to other nonland capital	6.90
Net land return	11.01
Unpaid labor	11.70
Total, economic costs	226.90
Residual returns to management and risk (excl. direct Gov't. payments)	-47.54
=====	
Harvest-period price (dollars/bu.)	1.71
Yield (bu./planted acre)	104.89

All costs and returns are preliminary as of 9/1/88.

Table 93--New York oats production costs
per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	57.60
Secondary crop	28.14
Total	85.74
=====	
Cash expenses:	
Seed	8.08
Fertilizer	18.50
Lime and gypsum	8.51
Chemicals	4.14
Custom operations	5.67
Fuel, lube, and electricity	8.62
Repairs	9.15
Hired labor	2.19
Technical services	.32
Total, variable cash expenses	65.18
General farm overhead	11.11
Taxes and insurance	20.01
Interest on operating loans	4.18
Interest on real estate	8.64
Total, fixed cash expenses	43.94
Total, cash expenses	109.12
Gross value less cash expenses (excl. direct Gov't payments)	-23.38
Capital replacement	29.75
Gross value less cash expenses and replacement (excl. direct Gov't payments)	-53.13
=====	
Economic (full ownership) costs:	
Variable cash expenses	65.18
General farm overhead	11.11
Taxes and insurance	20.01
Capital replacement	29.75
Allocated returns to owned inputs:	
Return to operating capital	1.07
Return to other nonland capital	7.75
Net land return	1.26
Unpaid labor	16.03
Total, economic costs	152.16
Residual returns to management and risk (excl. direct Gov't payments)	-66.42
=====	
Harvest-period price (dollars/bu.)	1.20
Yield (bu./planted acre)	48.00

All costs and returns are preliminary as of 9/1/88.

Table 94--New York wheat production costs
per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	102.36
Secondary crop	42.67
Total	145.03
=====	
Cash expenses:	
Seed	17.36
Fertilizer	36.92
Lime and gypsum	19.49
Chemicals	1.39
Custom operations	3.15
Fuel, lube, and electricity	9.05
Repairs	7.53
Hired labor	3.94
Total, variable cash expenses	98.83
General farm overhead	18.80
Taxes and insurance	20.93
Interest on operating loans	7.08
Interest on real estate	14.62
Total, fixed cash expenses	61.43
Total, cash expenses	160.26
Gross value less cash expenses (excl. direct Gov't payments)	-15.23
Capital replacement	30.94
Gross value less cash expenses and replacement (excl. direct Gov't payments)	-46.17
=====	
Economic (full ownership) costs:	
Variable cash expenses	98.83
General farm overhead	18.80
Taxes and insurance	20.93
Capital replacement	30.94
Allocated returns to owned inputs:	
Return to operating capital	4.66
Return to other nonland capital	6.66
Net land return	15.93
Unpaid labor	8.76
Total, economic costs	205.51
Residual returns to management and risk (excl. direct Gov't payments)	-60.48
=====	
Harvest-period price (dollars/bu.)	2.45
Yield (bu./planted acre)	41.78

All costs and returns are preliminary as of 9/1/88.

Table 95--North Carolina corn production costs per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	112.02
Total	112.02
=====	
Cash expenses:	
Seed	15.26
Fertilizer	51.80
Lime and gypsum	2.37
Chemicals	21.01
Custom operations	13.48
Fuel, lube, and electricity	9.07
Repairs	9.19
Hired labor	5.14
Drying	1.33
Technical services	.07
Total, variable cash expenses	128.72
General farm overhead	6.36
Taxes and insurance	9.22
Interest on operating loans	3.39
Interest on real estate	7.15
Total, fixed cash expenses	26.12
Total, cash expenses	154.84
Gross value less cash expenses (excl. direct Gov't payments)	-42.82
Capital replacement	21.89
Gross value less cash expenses and replacement (excl. direct Gov't payments)	-64.71
=====	
Economic (full ownership) costs:	
Variable cash expenses	128.72
General farm overhead	6.36
Taxes and insurance	9.22
Capital replacement	21.89
Allocated returns to owned inputs:	
Return to operating capital	2.93
Return to other nonland capital	4.83
Net land return	15.87
Unpaid labor	14.62
Total, economic costs	204.44
Residual returns to management and risk (excl. direct Gov't payments)	-92.42
=====	
Harvest-period price (dollars/bu.)	1.94
Yield (bu./planted acre)	57.74
=====	

All costs and returns are preliminary as of 9/1/88.

Table 96--North Carolina wheat production costs per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	93.13
Secondary crop	2.68
Total	95.81
=====	
Cash expenses:	
Seed	10.72
Fertilizer	28.76
Lime and gypsum	6.83
Custom operations	1.82
Fuel, lube, and electricity	9.96
Repairs	11.84
Hired labor	5.02
Total, variable cash expenses	74.95
General farm overhead	5.44
Taxes and insurance	11.41
Interest on operating loans	2.90
Interest on real estate	6.11
Total, fixed cash expenses	25.86
Total, cash expenses	100.81
Gross value less cash expenses (excl. direct Gov't payments)	-5.00
Capital replacement	27.25
Gross value less cash expenses and replacement (excl. direct Gov't payments)	-32.25
=====	
Economic (full ownership) costs:	
Variable cash expenses	74.95
General farm overhead	5.44
Taxes and insurance	11.41
Capital replacement	27.25
Allocated returns to owned inputs:	
Return to operating capital	2.47
Return to other nonland capital	6.61
Net land return	17.31
Unpaid labor	11.17
Total, economic costs	156.61
Residual returns to management and risk (excl. direct Gov't payments)	-60.80
=====	
Harvest-period price (dollars/bu.)	2.53
Yield (bu./planted acre)	36.81
=====	

All costs and returns are preliminary as of 9/1/88.

Table 97--North Carolina soybean production costs per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	129.44
Total	129.44
=====	
Cash expenses:	
Seed	11.17
Fertilizer	7.50
Lime and gypsum	2.61
Chemicals	8.37
Custom operations	7.23
Fuel, lube, and electricity	10.66
Repairs	9.14
Hired labor	4.36
Total, variable cash expenses	61.04
General farm overhead	7.35
Taxes and insurance	7.63
Interest on operating loans	3.92
Interest on real estate	8.26
Total, fixed cash expenses	27.16
Total, cash expenses	88.20
Gross value less cash expenses (excl. direct Gov't payments)	41.24
Capital replacement	23.09
Gross value less cash expenses and replacement (excl. direct Gov't payments)	18.15
=====	
Economic (full ownership) costs:	
Variable cash expenses	61.04
General farm overhead	7.35
Taxes and insurance	7.63
Capital replacement	23.09
Allocated returns to owned inputs:	
Return to operating capital	1.67
Return to other nonland capital	5.03
Net land return	15.14
Unpaid labor	16.39
Total, economic costs	137.34
Residual returns to management and risk (excl. direct Gov't payments)	-7.90
=====	
Harvest-period price (dollars/bu.)	5.52
Yield (bu./planted acre)	23.45

All costs and returns are preliminary as of 9/1/88.

Table 98--North Carolina peanut production costs per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	739.95
Secondary crop	8.83
Total	748.78
=====	
Cash expenses:	
Seed	88.06
Fertilizer	7.10
Lime and gypsum	22.49
Chemicals	82.86
Custom operations	12.25
Fuel, lube, and electricity	17.32
Repairs	14.13
Hired labor	19.19
Drying	62.82
Technical services	.21
Total, variable cash expenses	326.43
General farm overhead	42.53
Taxes and insurance	10.62
Interest on operating loans	22.69
Interest on real estate	47.77
Total, fixed cash expenses	123.61
Total, cash expenses	450.04
Gross value less cash expenses (excl. direct Gov't payments)	298.74
Capital replacement	27.49
Gross value less cash expenses and replacement (excl. direct Gov't payments)	271.25
=====	
Economic (full ownership) costs:	
Variable cash expenses	326.43
General farm overhead	42.53
Taxes and insurance	10.62
Capital replacement	27.49
Allocated returns to owned inputs:	
Return to operating capital	6.66
Return to other nonland capital	7.17
Net land return	135.95
Unpaid labor	20.79
Total, economic costs	577.64
Residual returns to management and risk (excl. direct Gov't payments)	171.14
=====	
Harvest-period price (dollars/lb.)	.28
Yield (lbs./planted acre)	2614.67

All costs and returns are preliminary as of 9/1/88.

Table 99--North Carolina cotton production costs per planted acre

Item	1987
Dollars	
Gross value (excl. direct Gov't. payments):	
Primary crop	340.00
Secondary crop	28.42
Total	368.42
=====	
Cash expenses:	
Seed	7.22
Fertilizer	35.06
Lime and gypsum	3.32
Chemicals	41.37
Custom operations	23.55
Fuel, lube, and electricity	13.93
Repairs	19.95
Hired labor	19.99
Ginning	45.46
Technical services	2.47
Total, variable cash expenses	212.32
General farm overhead	20.93
Taxes and insurance	12.79
Interest on operating loans	11.16
Interest on real estate	23.51
Total, fixed cash expenses	68.39
Total, cash expenses	280.71
Gross value less cash expenses (excl. direct Gov't payments)	87.71
Capital replacement	41.92
Gross value less cash expenses and replacement (excl. direct Gov't payments)	45.79
=====	
Economic (full ownership) costs:	
Variable cash expenses	212.32
General farm overhead	20.93
Taxes and insurance	12.79
Capital replacement	41.92
Allocated returns to owned inputs:	
Return to operating capital	3.51
Return to other nonland capital	9.07
Net land return	57.35
Unpaid labor	8.17
Total, economic costs	366.06
Residual returns to management and risk (excl. direct Gov't payments)	2.36
=====	
Harvest-period price (dollars/lb.)	.68
Yield (lbs./planted acre)	500.00

All costs and returns are preliminary as of 9/1/88.

Table 100--North Dakota barley (after crop) production costs per planted acre

Item	1987
Dollars	
Gross value (excl. direct Gov't. payments):	
Primary crop	60.40
Total	60.40
=====	
Cash expenses:	
Seed	3.16
Fertilizer	11.84
Chemicals	5.38
Custom operations	.63
Fuel, lube, and electricity	5.66
Repairs	7.33
Hired labor	3.84
Technical services	.19
Total, variable cash expenses	38.03
General farm overhead	4.60
Taxes and insurance	7.98
Interest on operating loans	2.49
Interest on real estate	5.06
Total, fixed cash expenses	20.13
Total, cash expenses	58.16
Gross value less cash expenses (excl. direct Gov't payments)	2.24
Capital replacement	22.39
Gross value less cash expenses and replacement (excl. direct Gov't payments)	-20.15
=====	
Economic (full ownership) costs:	
Variable cash expenses	38.03
General farm overhead	4.60
Taxes and insurance	7.98
Capital replacement	22.39
Allocated returns to owned inputs:	
Return to operating capital	.78
Return to other nonland capital	5.02
Net land return	18.88
Unpaid labor	4.33
Total, economic costs	102.01
Residual returns to management and risk (excl. direct Gov't payments)	-41.61
=====	
Harvest-period price (dollars/bu.)	1.29
Yield (bu./planted acre)	46.82

All costs and returns are preliminary as of 9/1/88.

Table 101--North Dakota barley (after fallow)
production costs per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	49.59
Secondary crop	1.35
Total	50.94
Cash expenses:	
Seed	3.01
Fertilizer	3.64
Chemicals	5.95
Custom operations	1.27
Fuel, lube, and electricity	7.46
Repairs	8.44
Hired labor	5.39
Technical services	.10
Total, variable cash expenses	35.26
General farm overhead	3.88
Taxes and insurance	10.16
Interest on operating loans	2.10
Interest on real estate	4.26
Total, fixed cash expenses	20.40
Total, cash expenses	55.66
Gross value less cash expenses (excl. direct Gov't payments)	-4.72
Capital replacement	25.30
Gross value less cash expenses and replacement (excl. direct Gov't payments)	-30.02
Economic (full ownership) costs:	
Variable cash expenses	35.26
General farm overhead	3.88
Taxes and insurance	10.16
Capital replacement	25.30
Allocated returns to owned inputs:	
Return to operating capital	.93
Return to other nonland capital	5.50
Net land return	20.80
Unpaid labor	6.08
Total, economic costs	107.91
Residual returns to management and risk (excl. direct Gov't payments)	-56.97
Harvest-period price (dollars/bu.)	1.29
Yield (bu./planted acre)	38.44

All costs and returns are preliminary as of 9/1/88.

Table 102--North Dakota oats production costs
per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	45.76
Secondary crop	3.65
Total	49.41
Cash expenses:	
Seed	3.05
Fertilizer	4.97
Chemicals	1.02
Custom operations	.52
Fuel, lube, and electricity	4.92
Repairs	5.72
Hired labor	.94
Technical services	.05
Total, variable cash expenses	21.19
General farm overhead	3.77
Taxes and insurance	5.86
Interest on operating loans	2.04
Interest on real estate	4.14
Total, fixed cash expenses	15.81
Total, cash expenses	37.00
Gross value less cash expenses (excl. direct Gov't payments)	12.41
Capital replacement	16.24
Gross value less cash expenses and replacement (excl. direct Gov't payments)	-3.83
Economic (full ownership) costs:	
Variable cash expenses	21.19
General farm overhead	3.77
Taxes and insurance	5.86
Capital replacement	16.24
Allocated returns to owned inputs:	
Return to operating capital	.35
Return to other nonland capital	3.71
Net land return	13.68
Unpaid labor	6.88
Total, economic costs	71.68
Residual returns to management and risk (excl. direct Gov't payments)	-22.27
Harvest-period price (dollars/bu.)	1.32
Yield (bu./planted acre)	34.67

All costs and returns are preliminary as of 9/1/88.

Table 103--North Dakota wheat production costs per planted acre

Item	1987
Dollars	
Gross value (excl. direct Gov't. payments):	
Primary crop	73.80
Secondary crop	1.51
Total	75.31
=====	
Cash expenses:	
Seed	5.19
Fertilizer	8.22
Chemicals	4.21
Custom operations	3.84
Fuel, lube, and electricity	4.74
Repairs	6.06
Hired labor	1.91
Technical services	.07
Total, variable cash expenses	34.24
General farm overhead	5.74
Taxes and insurance	5.89
Interest on operating loans	3.10
Interest on real estate	6.30
Total, fixed cash expenses	21.03
Total, cash expenses	55.27
Gross value less cash expenses (excl. direct Gov't payments)	20.04
Capital replacement	19.62
Gross value less cash expenses and replacement (excl. direct Gov't payments)	.42
=====	
Economic (full ownership) costs:	
Variable cash expenses	34.24
General farm overhead	5.74
Taxes and insurance	5.89
Capital replacement	19.62
Allocated returns to owned inputs:	
Return to operating capital	.41
Return to other nonland capital	4.32
Net land return	31.48
Unpaid labor	4.25
Total, economic costs	105.95
Residual returns to management and risk (excl. direct Gov't payments)	-30.64
=====	
Harvest-period price (dollars/bu.)	2.55
Yield (bu./planted acre)	28.94

All costs and returns are preliminary as of 9/1/88.

Table 104--North Dakota sunflower production costs per planted acre

Item	1987
Dollars	
Gross value (excl. direct Gov't. payments):	
Primary crop	102.18
Total	102.18
=====	
Cash expenses:	
Seed	12.85
Fertilizer	7.27
Chemicals	9.63
Custom operations	3.01
Fuel, lube, and electricity	5.17
Repairs	5.67
Hired labor	1.21
Drying	3.22
Technical services	.36
Total, variable cash expenses	48.39
General farm overhead	7.79
Taxes and insurance	6.34
Interest on operating loans	4.21
Interest on real estate	8.55
Total, fixed cash expenses	26.89
Total, cash expenses	75.28
Gross value less cash expenses (excl. direct Gov't payments)	26.90
Capital replacement	18.29
Gross value less cash expenses and replacement (excl. direct Gov't payments)	8.61
=====	
Economic (full ownership) costs:	
Variable cash expenses	48.39
General farm overhead	7.79
Taxes and insurance	6.34
Capital replacement	18.29
Allocated returns to owned inputs:	
Return to operating capital	1.04
Return to other nonland capital	4.01
Net land return	26.30
Unpaid labor	5.18
Total, economic costs	117.34
Residual returns to management and risk (excl. direct Gov't payments)	-15.16
=====	
Harvest-period price (dollars/cwt.)	6.89
Yield (cwt./planted acre)	14.83

All costs and returns are preliminary as of 9/1/88.

Table 105--North Dakota flaxseed production costs per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	51.18
Secondary crop	5.03
Total	56.21
Cash expenses:	
Seed	4.49
Fertilizer	2.65
Chemicals	4.69
Custom operations	.32
Fuel, lube, and electricity	6.32
Repairs	7.47
Hired labor	1.93
Technical services	.12
Total, variable cash expenses	27.99
General farm overhead	4.28
Taxes and insurance	7.69
Interest on operating loans	2.32
Interest on real estate	4.70
Total, fixed cash expenses	18.99
Total, cash expenses	46.98
Gross value less cash expenses (excl. direct Gov't payments)	9.23
Capital replacement	23.12
Gross value less cash expenses and replacement (excl. direct Gov't payments)	-13.89
Economic (full ownership) costs:	
Variable cash expenses	27.99
General farm overhead	4.28
Taxes and insurance	7.69
Capital replacement	23.12
Allocated returns to owned inputs:	
Return to operating capital	.48
Return to other nonland capital	5.26
Net land return	13.12
Unpaid labor	8.22
Total, economic costs	90.16
Residual returns to management and risk (excl. direct Gov't payments)	-33.95
Harvest-period price (dollars/bu.)	3.14
Yield (bu./planted acre)	16.30

All costs and returns are preliminary as of 9/1/88.

Table 106--Ohio corn production costs per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	190.74
Total	190.74
Cash expenses:	
Seed	18.53
Fertilizer	47.97
Lime and gypsum	2.41
Chemicals	19.15
Custom operations	5.14
Fuel, lube, and electricity	9.53
Repairs	10.74
Hired labor	4.41
Drying	6.99
Technical services	.32
Total, variable cash expenses	125.19
General farm overhead	11.39
Taxes and insurance	17.69
Interest on operating loans	6.62
Interest on real estate	14.32
Total, fixed cash expenses	50.02
Total, cash expenses	175.21
Gross value less cash expenses (excl. direct Gov't payments)	15.53
Capital replacement	35.38
Gross value less cash expenses and replacement (excl. direct Gov't payments)	-19.85
Economic (full ownership) costs:	
Variable cash expenses	125.19
General farm overhead	11.39
Taxes and insurance	17.69
Capital replacement	35.38
Allocated returns to owned inputs:	
Return to operating capital	2.67
Return to other nonland capital	7.88
Net land return	43.11
Unpaid labor	12.54
Total, economic costs	255.85
Residual returns to management and risk (excl. direct Gov't payments)	-65.11
Harvest-period price (dollars/bu.)	1.60
Yield (bu./planted acre)	119.21

All costs and returns are preliminary as of 9/1/88.

Table 107--Ohio oats production costs per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	70.00
Secondary crop	21.72
Total	91.72
Cash expenses:	
Seed	7.15
Fertilizer	22.40
Lime and gypsum	3.68
Chemicals	1.91
Custom operations	5.34
Fuel, lube, and electricity	7.70
Repairs	6.63
Hired labor	1.98
Technical services	.21
Total, variable cash expenses	57.00
General farm overhead	5.48
Taxes and insurance	15.75
Interest on operating loans	3.18
Interest on real estate	6.89
Total, fixed cash expenses	31.30
Total, cash expenses	88.30
Gross value less cash expenses (excl. direct Gov't payments)	3.42
Capital replacement	22.93
Gross value less cash expenses and replacement (excl. direct Gov't payments)	-19.51
Economic (full ownership) costs:	
Variable cash expenses	57.00
General farm overhead	5.48
Taxes and insurance	15.75
Capital replacement	22.93
Allocated returns to owned inputs:	
Return to operating capital	.92
Return to other nonland capital	5.70
Net land return	11.79
Unpaid labor	14.50
Total, economic costs	134.07
Residual returns to management and risk (excl. direct Gov't payments)	-42.35
Harvest-period price (dollars/bu.)	1.40
Yield (bu./planted acre)	50.00

All costs and returns are preliminary as of 9/1/88.

Table 108--Ohio wheat production costs per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	130.47
Secondary crop	37.88
Total	168.35
Cash expenses:	
Seed	11.04
Fertilizer	25.77
Lime and gypsum	1.49
Chemicals	.73
Custom operations	2.10
Fuel, lube, and electricity	6.03
Repairs	5.16
Hired labor	3.52
Total, variable cash expenses	55.84
General farm overhead	10.05
Taxes and insurance	16.29
Interest on operating loans	5.84
Interest on real estate	12.64
Total, fixed cash expenses	44.82
Total, cash expenses	100.66
Gross value less cash expenses (excl. direct Gov't payments)	67.69
Capital replacement	20.33
Gross value less cash expenses and replacement (excl. direct Gov't payments)	47.36
Economic (full ownership) costs:	
Variable cash expenses	55.84
General farm overhead	10.05
Taxes and insurance	16.29
Capital replacement	20.33
Allocated returns to owned inputs:	
Return to operating capital	2.37
Return to other nonland capital	4.34
Net land return	67.47
Unpaid labor	7.85
Total, economic costs	184.54
Residual returns to management and risk (excl. direct Gov't payments)	-16.19
Harvest-period price (dollars/bu.)	2.39
Yield (bu./planted acre)	54.59

All costs and returns are preliminary as of 9/1/88.

Table 109--Ohio soybean production costs
per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	189.25
Total	189.25
Cash expenses:	
Seed	13.93
Fertilizer	7.44
Chemicals	12.18
Custom operations	3.16
Fuel, lube, and electricity	7.14
Repairs	5.85
Hired labor	2.54
Technical services	.02
Total, variable cash expenses	52.26
General farm overhead	11.30
Taxes and insurance	15.44
Interest on operating loans	6.57
Interest on real estate	14.21
Total, fixed cash expenses	47.52
Total, cash expenses	99.78
Gross value less cash expenses (excl. direct Gov't payments)	89.47
Capital replacement	29.42
Gross value less cash expenses and replacement (excl. direct Gov't payments)	60.05
Economic (full ownership) costs:	
Variable cash expenses	52.26
General farm overhead	11.30
Taxes and insurance	15.44
Capital replacement	29.42
Allocated returns to owned inputs:	
Return to operating capital	1.20
Return to other nonland capital	5.49
Net land return	46.14
Unpaid labor	9.57
Total, economic costs	170.82
Residual returns to management and risk (excl. direct Gov't payments)	18.43
Harvest-period price (dollars/bu.)	5.14
Yield (bu./planted acre)	36.82

All costs and returns are preliminary as of 9/1/88.

Table 110--Oklahoma barley production costs
per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	33.22
Total	33.22
Cash expenses:	
Seed	3.53
Fertilizer	5.64
Chemicals	2.10
Custom operations	5.54
Fuel, lube, and electricity	5.92
Repairs	6.01
Hired labor	4.63
Total, variable cash expenses	33.36
General farm overhead	2.18
Taxes and insurance	4.75
Interest on operating loans	1.89
Interest on real estate	1.71
Total, fixed cash expenses	10.53
Total, cash expenses	43.89
Gross value less cash expenses (excl. direct Gov't payments)	-10.67
Capital replacement	14.45
Gross value less cash expenses and replacement (excl. direct Gov't payments)	-25.12
Economic (full ownership) costs:	
Variable cash expenses	33.36
General farm overhead	2.18
Taxes and insurance	4.75
Capital replacement	14.45
Allocated returns to owned inputs:	
Return to operating capital	1.18
Return to other nonland capital	2.84
Net land return	9.57
Unpaid labor	5.22
Total, economic costs	73.55
Residual returns to management and risk (excl. direct Gov't payments)	-40.33
Harvest-period price (dollars/bu.)	1.55
Yield (bu./planted acre)	21.43

All costs and returns are preliminary as of 9/1/88.

Table 111--Oklahoma wheat production costs
per planted acre

Item	1987
Dollars	
Gross value (excl. direct Gov't. payments):	
Primary crop	41.40
Secondary crop	.06
Total	41.46
=====	
Cash expenses:	
Seed	5.36
Fertilizer	9.98
Chemicals	1.34
Custom operations	3.67
Fuel, lube, and electricity	7.20
Repairs	5.89
Hired labor	2.69
Total, variable cash expenses	36.13
General farm overhead	2.72
Taxes and insurance	5.86
Interest on operating loans	2.36
Interest on real estate	2.14
Total, fixed cash expenses	13.08
Total, cash expenses	49.21
Gross value less cash expenses (excl. direct Gov't payments)	-7.75
Capital replacement	17.50
Gross value less cash expenses and replacement (excl. direct Gov't payments)	-25.25
=====	
Economic (full ownership) costs:	
Variable cash expenses	36.13
General farm overhead	2.72
Taxes and insurance	5.86
Capital replacement	17.50
Allocated returns to owned inputs:	
Return to operating capital	1.35
Return to other nonland capital	3.70
Net land return	12.24
Unpaid labor	5.98
Total, economic costs	85.48
Residual returns to management and risk (excl. direct Gov't payments)	-44.02
=====	
Harvest-period price (dollars/bu.)	2.30
Yield (bu./planted acre)	18.00
=====	

All costs and returns are preliminary as of 9/1/88.

Table 112--Oklahoma peanut (dryland) production costs
per planted acre

Item	1987
Dollars	
Gross value (excl. direct Gov't. payments):	
Primary crop	271.09
Secondary crop	22.44
Total	293.53
=====	
Cash expenses:	
Seed	60.09
Fertilizer	15.08
Lime and gypsum	.82
Chemicals	17.82
Custom operations	2.28
Fuel, lube, and electricity	13.62
Repairs	13.78
Hired labor	15.06
Drying	13.79
Technical services	.26
Total, variable cash expenses	152.60
General farm overhead	19.23
Taxes and insurance	9.04
Interest on operating loans	16.73
Interest on real estate	15.12
Total, fixed cash expenses	60.12
Total, cash expenses	212.72
Gross value less cash expenses (excl. direct Gov't payments)	80.81
Capital replacement	31.88
Gross value less cash expenses and replacement (excl. direct Gov't payments)	48.93
=====	
Economic (full ownership) costs:	
Variable cash expenses	152.60
General farm overhead	19.23
Taxes and insurance	9.04
Capital replacement	31.88
Allocated returns to owned inputs:	
Return to operating capital	3.46
Return to other nonland capital	7.72
Net land return	38.78
Unpaid labor	16.31
Total, economic costs	279.02
Residual returns to management and risk (excl. direct Gov't payments)	14.51
=====	
Harvest-period price (dollars/lb.)	.23
Yield (lbs./planted acre)	1168.50
=====	

All costs and returns are preliminary as of 9/1/88.

Table 113--Oklahoma peanut (irrigated)
production costs per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	495.34
Secondary crop	38.36
Total	533.70
Cash expenses:	
Seed	71.91
Fertilizer	23.12
Chemicals	58.11
Custom operations	4.07
Fuel, lube, and electricity	54.94
Repairs	34.01
Hired labor	28.10
Drying	18.08
Technical services	1.01
Total, variable cash expenses	293.35
General farm overhead	34.96
Taxes and insurance	15.11
Interest on operating loans	30.42
Interest on real estate	27.49
Total, fixed cash expenses	107.98
Total, cash expenses	401.33
Gross value less cash expenses (excl. direct Gov't payments)	132.37
Capital replacement	79.09
Gross value less cash expenses and replacement (excl. direct Gov't payments)	53.28
Economic (full ownership) costs:	
Variable cash expenses	293.35
General farm overhead	34.96
Taxes and insurance	15.11
Capital replacement	79.09
Allocated returns to owned inputs:	
Return to operating capital	6.05
Return to other nonland capital	17.35
Net land return	97.08
Unpaid labor	30.45
Total, economic costs	573.44
Residual returns to management and risk (excl. direct Gov't payments)	-39.74
Harvest-period price (dollars/lb.)	.23
Yield (lbs./planted acre)	2135.07

All costs and returns are preliminary as of 9/1/88.

Table 114--Oklahoma cotton (dryland) production costs
per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	219.82
Secondary crop	23.48
Total	243.30
Cash expenses:	
Seed	8.21
Fertilizer	5.31
Chemicals	7.69
Custom operations	2.66
Fuel, lube, and electricity	8.82
Repairs	8.51
Hired labor	16.39
Ginning	38.84
Technical services	.10
Total, variable cash expenses	96.53
General farm overhead	15.94
Taxes and insurance	5.44
Interest on operating loans	13.87
Interest on real estate	12.53
Total, fixed cash expenses	47.78
Total, cash expenses	144.31
Gross value less cash expenses (excl. direct Gov't. payments)	98.99
Capital replacement	20.10
Gross value less cash expenses and replacement (excl. direct Gov't. payments)	78.89
Economic (full ownership) costs:	
Variable cash expenses	96.53
General farm overhead	15.94
Taxes and insurance	5.44
Capital replacement	20.10
Allocated returns to owned inputs:	
Return to operating capital	1.53
Return to other nonland capital	3.83
Net land return	38.89
Unpaid labor	6.69
Total, economic costs	188.95
Residual returns to management and risk (excl. direct Gov't. payments)	54.35
Harvest-period price (dollars/lb.)	.62
Yield (lbs./planted acre)	355.70

All costs and returns are preliminary as of 9/1/88.

Table 115--Oklahoma cotton (irrigated)
production costs per planted acre

Item	1987
Dollars	
Gross value (excl. direct Gov't. payments):	
Primary crop	309.62
Secondary crop	33.07
Total	342.69
=====	
Cash expenses:	
Seed	9.54
Fertilizer	20.07
Chemicals	39.69
Custom operations	12.51
Fuel, lube, and electricity	26.97
Repairs	23.99
Hired labor	30.79
Ginning	53.95
Technical services	1.25
Total, variable cash expenses	218.76
General farm overhead	22.45
Taxes and insurance	10.46
Interest on operating loans	19.53
Interest on real estate	17.65
Total, fixed cash expenses	70.09
Total, cash expenses	288.85
Gross value less cash expenses (excl. direct Gov't. payments)	53.84
Capital replacement	51.18
Gross value less cash expenses and replacement (excl. direct Gov't. payments)	2.66
=====	
Economic (full ownership) costs:	
Variable cash expenses	218.76
General farm overhead	22.45
Taxes and insurance	10.46
Capital replacement	51.18
Allocated returns to owned inputs:	
Return to operating capital	3.83
Return to other nonland capital	10.20
Net land return	49.96
Unpaid labor	12.58
Total, economic costs	379.42
Residual returns to management and risk (excl. direct Gov't. payments)	-36.73
=====	
Harvest-period price (dollars/lb.)	.62
Yield (lbs./planted acre)	501.00

All costs and returns are preliminary as of 9/1/88.

Table 116--Oregon barley (after crop) production costs
per planted acre

Item	1987
Dollars	
Gross value (excl. direct Gov't. payments):	
Primary crop	102.66
Total	102.66
=====	
Cash expenses:	
Seed	4.27
Fertilizer	17.00
Chemicals	8.15
Custom operations	.61
Fuel, lube, and electricity	6.30
Repairs	9.70
Hired labor	5.48
Total, variable cash expenses	51.51
General farm overhead	8.76
Taxes and insurance	10.12
Interest on operating loans	3.42
Interest on real estate	6.09
Total, fixed cash expenses	28.39
Total, cash expenses	79.90
Gross value less cash expenses (excl. direct Gov't. payments)	22.76
Capital replacement	24.31
Gross value less cash expenses and replacement (excl. direct Gov't. payments)	-1.55
=====	
Economic (full ownership) costs:	
Variable cash expenses	51.51
General farm overhead	8.76
Taxes and insurance	10.12
Capital replacement	24.31
Allocated returns to owned inputs:	
Return to operating capital	.72
Return to other nonland capital	5.12
Net land return	21.48
Unpaid labor	6.18
Total, economic costs	128.20
Residual returns to management and risk (excl. direct Gov't. payments)	-25.54
=====	
Harvest-period price (dollars/bu.)	1.81
Yield (bu./planted acre)	56.72

All costs and returns are preliminary as of 9/1/88.

Table 117--Oregon barley (after fallow)
production costs per planted acre

Item	1987
Dollars	
Gross value (excl. direct Gov't. payments):	
Primary crop	92.74
Total	92.74
=====	
Cash expenses:	
Seed	2.98
Fertilizer	6.04
Chemicals	6.47
Custom operations	.19
Fuel, lube, and electricity	6.83
Repairs	11.39
Hired labor	6.69
Technical services	.10
Total, variable cash expenses	40.69
General farm overhead	7.91
Taxes and insurance	12.27
Interest on operating loans	3.09
Interest on real estate	5.50
Total, fixed cash expenses	28.77
Total, cash expenses	69.46
Gross value less cash expenses (excl. direct Gov't payments)	23.28
Capital replacement	23.47
Gross value less cash expenses and replacement (excl. direct Gov't payments)	- .19
=====	
Economic (full ownership) costs:	
Variable cash expenses	40.69
General farm overhead	7.91
Taxes and insurance	12.27
Capital replacement	23.47
Allocated returns to owned inputs:	
Return to operating capital	.98
Return to other nonland capital	4.90
Net land return	19.38
Unpaid labor	7.55
Total, economic costs	117.15
Residual returns to management and risk (excl. direct Gov't payments)	-24.41
=====	
Harvest-period price (dollars/bu.)	1.81
Yield (bu./planted acre)	51.24

All costs and returns are preliminary as of 9/1/88.

Table 118--Oregon barley (irrigated) production costs
per planted acre

Item	1987
Dollars	
Gross value (excl. direct Gov't. payments):	
Primary crop	163.64
Secondary crop	7.98
Total	171.62
=====	
Cash expenses:	
Seed	6.27
Fertilizer	24.83
Chemicals	5.11
Custom operations	8.86
Fuel, lube, and electricity	20.06
Repairs	22.48
Hired labor	13.74
Technical services	.19
Total, variable cash expenses	101.54
General farm overhead	14.64
Taxes and insurance	17.95
Interest on operating loans	5.71
Interest on real estate	10.18
Total, fixed cash expenses	48.48
Total, cash expenses	150.02
Gross value less cash expenses (excl. direct Gov't payments)	21.60
Capital replacement	37.10
Gross value less cash expenses and replacement (excl. direct Gov't payments)	-15.50
=====	
Economic (full ownership) costs:	
Variable cash expenses	101.54
General farm overhead	14.64
Taxes and insurance	17.95
Capital replacement	37.10
Allocated returns to owned inputs:	
Return to operating capital	1.53
Return to other nonland capital	7.77
Net land return	28.40
Unpaid labor	15.49
Total, economic costs	224.42
Residual returns to management and risk (excl. direct Gov't payments)	-52.80
=====	
Harvest-period price (dollars/bu.)	1.81
Yield (bu./planted acre)	90.41

All costs and returns are preliminary as of 9/1/88.

Table 119--Oregon wheat production costs
per planted acre

Item	1987
Dollars	
Gross value (excl. direct Gov't. payments):	
Primary crop	160.96
Secondary crop	.50
Total	161.46
=====	
Cash expenses:	
Seed	8.11
Fertilizer	12.81
Chemicals	12.12
Custom operations	2.06
Fuel, lube, and electricity	6.00
Repairs	10.07
Hired labor	2.75
Technical services	.04
Total, variable cash expenses	53.96
General farm overhead	13.77
Taxes and insurance	12.87
Interest on operating loans	5.38
Interest on real estate	9.57
Total, fixed cash expenses	41.59
Total, cash expenses	95.55
Gross value less cash expenses (excl. direct Gov't payments)	65.91
Capital replacement	22.08
Gross value less cash expenses and replacement (excl. direct Gov't payments)	43.83
=====	
Economic (full ownership) costs:	
Variable cash expenses	53.96
General farm overhead	13.77
Taxes and insurance	12.87
Capital replacement	22.08
Allocated returns to owned inputs:	
Return to operating capital	2.16
Return to other nonland capital	4.73
Net land return	55.72
Unpaid labor	6.11
Total, economic costs	171.40
Residual returns to management and risk (excl. direct Gov't payments)	-9.94
=====	
Harvest-period price (dollars/bu.)	2.57
Yield (bu./planted acre)	62.63

All costs and returns are preliminary as of 9/1/88.

Table 120--Pennsylvania corn production costs
per planted acre

Item	1987
Dollars	
Gross value (excl. direct Gov't. payments):	
Primary crop	168.51
Total	168.51
=====	
Cash expenses:	
Seed	15.56
Fertilizer	37.99
Lime and gypsum	10.93
Chemicals	18.53
Custom operations	9.10
Fuel, lube, and electricity	11.16
Repairs	13.80
Hired labor	6.71
Drying	4.85
Technical services	.11
Total, variable cash expenses	128.74
General farm overhead	21.84
Taxes and insurance	24.04
Interest on operating loans	8.22
Interest on real estate	16.99
Total, fixed cash expenses	71.09
Total, cash expenses	199.83
Gross value less cash expenses (excl. direct Gov't payments)	-31.32
Capital replacement	34.44
Gross value less cash expenses and replacement (excl. direct Gov't payments)	-65.76
=====	
Economic (full ownership) costs:	
Variable cash expenses	128.74
General farm overhead	21.84
Taxes and insurance	24.04
Capital replacement	34.44
Allocated returns to owned inputs:	
Return to operating capital	2.59
Return to other nonland capital	8.97
Net land return	20.72
Unpaid labor	19.11
Total, economic costs	260.45
Residual returns to management and risk (excl. direct Gov't payments)	-91.94
=====	
Harvest-period price (dollars/bu.)	1.89
Yield (bu./planted acre)	89.16

All costs and returns are preliminary as of 9/1/88.

Table 121--Pennsylvania barley production costs
per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	66.30
Secondary crop	61.77
Total	128.07
Cash expenses:	
Seed	8.60
Fertilizer	16.33
Lime and gypsum	5.35
Chemicals	.19
Custom operations	6.79
Fuel, lube, and electricity	9.23
Repairs	8.36
Hired labor	11.27
Total, variable cash expenses	66.12
General farm overhead	16.60
Taxes and insurance	23.86
Interest on operating loans	6.25
Interest on real estate	12.91
Total, fixed cash expenses	59.62
Total, cash expenses	125.74
Gross value less cash expenses (excl. direct Gov't payments)	2.33
Capital replacement	29.26
Gross value less cash expenses and replacement (excl. direct Gov't payments)	-26.93
Economic (full ownership) costs:	
Variable cash expenses	66.12
General farm overhead	16.60
Taxes and insurance	23.86
Capital replacement	29.26
Allocated returns to owned inputs:	
Return to operating capital	.82
Return to other nonland capital	7.64
Net land return	29.03
Unpaid labor	12.72
Total, economic costs	186.05
Residual returns to management and risk (excl. direct Gov't payments)	-57.98
Harvest-period price (dollars/bu.)	1.26
Yield (bu./planted acre)	52.62

All costs and returns are preliminary as of 9/1/88.

Table 122--Pennsylvania oats production costs
per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	67.45
Secondary crop	39.89
Total	107.34
Cash expenses:	
Seed	7.83
Fertilizer	15.53
Lime and gypsum	12.39
Chemicals	2.39
Custom operations	4.91
Fuel, lube, and electricity	9.07
Repairs	8.76
Hired labor	2.99
Technical services	.05
Total, variable cash expenses	63.92
General farm overhead	13.91
Taxes and insurance	19.38
Interest on operating loans	5.24
Interest on real estate	10.82
Total, fixed cash expenses	49.35
Total, cash expenses	113.27
Gross value less cash expenses (excl. direct Gov't payments)	-5.93
Capital replacement	29.25
Gross value less cash expenses and replacement (excl. direct Gov't payments)	-35.18
Economic (full ownership) costs:	
Variable cash expenses	63.92
General farm overhead	13.91
Taxes and insurance	19.38
Capital replacement	29.25
Allocated returns to owned inputs:	
Return to operating capital	1.36
Return to other nonland capital	7.78
Net land return	12.83
Unpaid labor	21.91
Total, economic costs	170.34
Residual returns to management and risk (excl. direct Gov't payments)	-63.00
Harvest-period price (dollars/bu.)	1.32
Yield (bu./planted acre)	51.10

All costs and returns are preliminary as of 9/1/88.

Table 123--Pennsylvania wheat production costs per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	105.51
Secondary crop	120.50
Total	226.01
Cash expenses:	
Seed	18.34
Fertilizer	21.29
Lime and gypsum	6.10
Chemicals	8.80
Custom operations	4.98
Fuel, lube, and electricity	8.08
Repairs	7.65
Hired labor	4.87
Total, variable cash expenses	80.11
General farm overhead	29.29
Taxes and insurance	23.27
Interest on operating loans	11.03
Interest on real estate	22.78
Total, fixed cash expenses	86.37
Total, cash expenses	166.48
Gross value less cash expenses (excl. direct Gov't payments)	59.53
Capital replacement	29.70
Gross value less cash expenses and replacement (excl. direct Gov't payments)	29.83
Economic (full ownership) costs:	
Variable cash expenses	80.11
General farm overhead	29.29
Taxes and insurance	23.27
Capital replacement	29.70
Allocated returns to owned inputs:	
Return to operating capital	3.29
Return to other nonland capital	6.70
Net land return	37.45
Unpaid labor	10.83
Total, economic costs	220.64
Residual returns to management and risk (excl. direct Gov't payments)	5.37
Harvest-period price (dollars/bu.)	2.52
Yield (bu./planted acre)	41.87

All costs and returns are preliminary as of 9/1/88.

Table 124--South Carolina corn production costs per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	134.95
Total	134.95
Cash expenses:	
Seed	18.71
Fertilizer	43.25
Lime and gypsum	7.35
Chemicals	21.37
Custom operations	6.50
Fuel, lube, and electricity	8.41
Repairs	9.04
Hired labor	3.77
Drying	2.95
Technical services	.06
Total, variable cash expenses	121.41
General farm overhead	7.18
Taxes and insurance	5.52
Interest on operating loans	4.20
Interest on real estate	5.74
Total, fixed cash expenses	22.64
Total, cash expenses	144.05
Gross value less cash expenses (excl. direct Gov't payments)	-9.10
Capital replacement	19.19
Gross value less cash expenses and replacement (excl. direct Gov't payments)	-28.29
Economic (full ownership) costs:	
Variable cash expenses	121.41
General farm overhead	7.18
Taxes and insurance	5.52
Capital replacement	19.19
Allocated returns to owned inputs:	
Return to operating capital	3.27
Return to other nonland capital	3.76
Net land return	20.80
Unpaid labor	10.74
Total, economic costs	191.87
Residual returns to management and risk (excl. direct Gov't payments)	-56.92
Harvest-period price (dollars/bu.)	1.79
Yield (bu./planted acre)	75.39

All costs and returns are preliminary as of 9/1/88.

Table 125--South Carolina wheat production costs per planted acre

Item	1987
Dollars	
Gross value (excl. direct Gov't. payments):	
Primary crop	90.07
Secondary crop	.85
Total	90.92
=====	
Cash expenses:	
Seed	9.27
Fertilizer	24.73
Lime and gypsum	.09
Chemicals	8.60
Custom operations	5.01
Fuel, lube, and electricity	6.19
Repairs	7.58
Hired labor	3.17
Total, variable cash expenses	64.64
General farm overhead	4.84
Taxes and insurance	4.62
Interest on operating loans	2.83
Interest on real estate	3.86
Total, fixed cash expenses	16.15
Total, cash expenses	80.79
Gross value less cash expenses (excl. direct Gov't payments)	10.13
Capital replacement	15.69
Gross value less cash expenses and replacement (excl. direct Gov't payments)	-5.56
=====	
Economic (full ownership) costs:	
Variable cash expenses	64.64
General farm overhead	4.84
Taxes and insurance	4.62
Capital replacement	15.69
Allocated returns to owned inputs:	
Return to operating capital	2.01
Return to other nonland capital	3.33
Net land return	16.71
Unpaid labor	7.05
Total, economic costs	118.89
Residual returns to management and risk (excl. direct Gov't payments)	-27.97
=====	
Harvest-period price (dollars/bu.)	2.50
Yield (bu./planted acre)	36.03
=====	

All costs and returns are preliminary as of 9/1/88.

Table 126--South Carolina cotton production costs per planted acre

Item	1987
Dollars	
Gross value (excl. direct Gov't. payments):	
Primary crop	287.32
Secondary crop	30.24
Total	317.56
=====	
Cash expenses:	
Seed	5.81
Fertilizer	37.14
Lime and gypsum	6.40
Chemicals	131.77
Custom operations	8.00
Fuel, lube, and electricity	14.76
Repairs	18.84
Hired labor	17.82
Ginning	38.10
Technical services	2.80
Total, variable cash expenses	281.44
General farm overhead	16.89
Taxes and insurance	11.88
Interest on operating loans	9.88
Interest on real estate	13.50
Total, fixed cash expenses	52.15
Total, cash expenses	333.59
Gross value less cash expenses (excl. direct Gov't payments)	-16.03
Capital replacement	58.01
Gross value less cash expenses and replacement (excl. direct Gov't payments)	-74.04
=====	
Economic (full ownership) costs:	
Variable cash expenses	281.44
General farm overhead	16.89
Taxes and insurance	11.88
Capital replacement	58.01
Allocated returns to owned inputs:	
Return to operating capital	4.98
Return to other nonland capital	11.27
Net land return	28.96
Unpaid labor	7.28
Total, economic costs	420.71
Residual returns to management and risk (excl. direct Gov't payments)	-103.15
=====	
Harvest-period price (dollars/lb.)	.65
Yield (lbs./planted acre)	440.00
=====	

All costs and returns are preliminary as of 9/1/88.

Table 127--South Dakota corn production costs per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	120.69
Total	120.69
Cash expenses:	
Seed	12.69
Fertilizer	10.92
Chemicals	8.36
Custom operations	3.62
Fuel, lube, and electricity	7.20
Repairs	8.25
Hired labor	3.30
Drying	3.35
Technical services	.25
Total, variable cash expenses	57.94
General farm overhead	9.20
Taxes and insurance	10.83
Interest on operating loans	4.97
Interest on real estate	10.10
Total, fixed cash expenses	35.10
Total, cash expenses	93.04
Gross value less cash expenses (excl. direct Gov't payments)	27.65
Capital replacement	23.55
Gross value less cash expenses and replacement (excl. direct Gov't payments)	4.10
Economic (full ownership) costs:	
Variable cash expenses	57.94
General farm overhead	9.20
Taxes and insurance	10.83
Capital replacement	23.55
Allocated returns to owned inputs:	
Return to operating capital	1.48
Return to other nonland capital	5.78
Net land return	26.78
Unpaid labor	9.39
Total, economic costs	144.95
Residual returns to management and risk (excl. direct Gov't payments)	-24.26
Harvest-period price (dollars/bu.)	1.47
Yield (bu./planted acre)	82.10

All costs and returns are preliminary as of 9/1/88.

Table 128--South Dakota, barley (after crop) production costs per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	52.68
Secondary crop	.36
Total	53.04
Cash expenses:	
Seed	3.95
Fertilizer	6.11
Chemicals	2.68
Custom operations	2.22
Fuel, lube, and electricity	5.47
Repairs	6.72
Hired labor	3.99
Technical services	.05
Total, variable cash expenses	31.19
General farm overhead	4.04
Taxes and insurance	8.44
Interest on operating loans	2.19
Interest on real estate	4.44
Total, fixed cash expenses	19.11
Total, cash expenses	50.30
Gross value less cash expenses (excl. direct Gov't payments)	2.74
Capital replacement	19.26
Gross value less cash expenses and replacement (excl. direct Gov't payments)	-16.52
Economic (full ownership) costs:	
Variable cash expenses	31.19
General farm overhead	4.04
Taxes and insurance	8.44
Capital replacement	19.26
Allocated returns to owned inputs:	
Return to operating capital	.53
Return to other nonland capital	4.64
Net land return	12.70
Unpaid labor	4.50
Total, economic costs	85.30
Residual returns to management and risk (excl. direct Gov't payments)	-32.26
Harvest-period price (dollars/bu.)	1.33
Yield (bu./planted acre)	39.61

All costs and returns are preliminary as of 9/1/88.

Table 129--South Dakota barley (after fallow)
production costs per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	47.00
Secondary crop	.24
Total	47.24
Cash expenses:	
Seed	3.63
Fertilizer	3.90
Chemicals	1.20
Custom operations	4.95
Fuel, lube, and electricity	6.46
Repairs	7.90
Hired labor	4.86
Total, variable cash expenses	32.90
General farm overhead	3.60
Taxes and insurance	10.97
Interest on operating loans	1.95
Interest on real estate	3.95
Total, fixed cash expenses	20.47
Total, cash expenses	53.37
Gross value less cash expenses (excl. direct Gov't payments)	-6.13
Capital replacement	22.21
Gross value less cash expenses and replacement (excl. direct Gov't payments)	-28.34
Economic (full ownership) costs:	
Variable cash expenses	32.90
General farm overhead	3.60
Taxes and insurance	10.97
Capital replacement	22.21
Allocated returns to owned inputs:	
Return to operating capital	.69
Return to other nonland capital	4.74
Net land return	9.52
Unpaid labor	5.48
Total, economic costs	90.11
Residual returns to management and risk (excl. direct Gov't payments)	-42.87
Harvest-period price (dollars/bu.)	1.33
Yield (bu./planted acre)	35.34

All costs and returns are preliminary as of 9/1/88.

Table 130--South Dakota oats production costs
per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	49.13
Secondary crop	8.27
Total	57.40
Cash expenses:	
Seed	4.66
Fertilizer	6.01
Chemicals	1.23
Custom operations	2.27
Fuel, lube, and electricity	4.86
Repairs	5.90
Hired labor	1.10
Total, variable cash expenses	26.03
General farm overhead	4.37
Taxes and insurance	8.34
Interest on operating loans	2.36
Interest on real estate	4.80
Total, fixed cash expenses	19.87
Total, cash expenses	45.90
Gross value less cash expenses (excl. direct Gov't payments)	11.50
Capital replacement	15.41
Gross value less cash expenses and replacement (excl. direct Gov't payments)	-3.91
Economic (full ownership) costs:	
Variable cash expenses	26.03
General farm overhead	4.37
Taxes and insurance	8.34
Capital replacement	15.41
Allocated returns to owned inputs:	
Return to operating capital	.43
Return to other nonland capital	3.86
Net land return	11.01
Unpaid labor	8.08
Total, economic costs	77.53
Residual returns to management and risk (excl. direct Gov't payments)	-20.13
Harvest-period price (dollars/bu.)	1.30
Yield (bu./planted acre)	37.79

All costs and returns are preliminary as of 9/1/88.

Table 131--South Dakota wheat production costs per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	66.17
Secondary crop	1.70
Total	67.87
=====	
Cash expenses:	
Seed	6.43
Fertilizer	7.93
Chemicals	4.41
Custom operations	3.85
Fuel, lube, and electricity	4.55
Repairs	5.26
Hired labor	1.99
Technical services	.04
Total, variable cash expenses	34.46
General farm overhead	5.17
Taxes and insurance	8.34
Interest on operating loans	2.80
Interest on real estate	5.68
Total, fixed cash expenses	21.99
Total, cash expenses	56.45
Gross value less cash expenses (excl. direct Gov't payments)	11.42
Capital replacement	16.16
Gross value less cash expenses and replacement (excl. direct Gov't payments)	-4.74
=====	
Economic (full ownership) costs:	
Variable cash expenses	34.46
General farm overhead	5.17
Taxes and insurance	8.34
Capital replacement	16.16
Allocated returns to owned inputs:	
Return to operating capital	.70
Return to other nonland capital	3.79
Net land return	19.05
Unpaid labor	4.44
Total, economic costs	92.11
Residual returns to management and risk (excl. direct Gov't payments)	-24.24
=====	
Harvest-period price (dollars/bu.)	2.27
Yield (bu./planted acre)	29.15

All costs and returns are preliminary as of 9/1/88.

Table 132--South Dakota sunflower production costs per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	77.08
Total	77.08
=====	
Cash expenses:	
Seed	11.22
Fertilizer	3.45
Chemicals	4.40
Custom operations	1.62
Fuel, lube, and electricity	5.37
Repairs	5.11
Hired labor	1.28
Drying	1.10
Technical services	.13
Total, variable cash expenses	33.68
General farm overhead	5.87
Taxes and insurance	6.89
Interest on operating loans	3.18
Interest on real estate	6.45
Total, fixed cash expenses	22.39
Total, cash expenses	56.07
Gross value less cash expenses (excl. direct Gov't payments)	21.01
Capital replacement	17.09
Gross value less cash expenses and replacement (excl. direct Gov't payments)	3.92
=====	
Economic (full ownership) costs:	
Variable cash expenses	33.68
General farm overhead	5.87
Taxes and insurance	6.89
Capital replacement	17.09
Allocated returns to owned inputs:	
Return to operating capital	.73
Return to other nonland capital	3.77
Net land return	21.06
Unpaid labor	5.45
Total, economic costs	94.54
Residual returns to management and risk (excl. direct Gov't payments)	-17.46
=====	
Harvest-period price (dollars/cwt.)	5.98
Yield (cwt./planted acre)	12.89

All costs and returns are preliminary as of 9/1/88.

Table 133--South Dakota flaxseed production costs per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	41.73
Secondary crop	9.19
Total	50.92
=====	
Cash expenses:	
Seed	6.92
Fertilizer	1.62
Chemicals	2.48
Custom operations	3.05
Fuel, lube, and electricity	6.37
Repairs	6.90
Hired labor	2.25
Total, variable cash expenses	29.59
General farm overhead	3.88
Taxes and insurance	8.86
Interest on operating loans	2.10
Interest on real estate	4.26
Total, fixed cash expenses	19.10
Total, cash expenses	48.69
Gross value less cash expenses (excl. direct Gov't payments)	2.23
Capital replacement	20.28
Gross value less cash expenses and replacement (excl. direct Gov't payments)	-18.05
=====	
Economic (full ownership) costs:	
Variable cash expenses	29.59
General farm overhead	3.88
Taxes and insurance	8.86
Capital replacement	20.28
Allocated returns to owned inputs:	
Return to operating capital	.45
Return to other nonland capital	4.62
Net land return	9.93
Unpaid labor	9.60
Total, economic costs	87.21
Residual returns to management and risk (excl. direct Gov't payments)	-36.29
=====	
Harvest-period price (dollars/bu.)	3.27
Yield (bu./planted acre)	12.76
=====	

All costs and returns are preliminary as of 9/1/88.

Table 134--Tennessee corn production costs per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	152.08
Total	152.08
=====	
Cash expenses:	
Seed	15.88
Fertilizer	48.09
Lime and gypsum	1.33
Chemicals	19.23
Custom operations	4.94
Fuel, lube, and electricity	10.46
Repairs	11.48
Hired labor	4.48
Drying	5.00
Total, variable cash expenses	120.88
General farm overhead	8.64
Taxes and insurance	9.25
Interest on operating loans	4.61
Interest on real estate	9.70
Total, fixed cash expenses	32.20
Total, cash expenses	153.08
Gross value less cash expenses (excl. direct Gov't payments)	-1.00
Capital replacement	26.98
Gross value less cash expenses and replacement (excl. direct Gov't payments)	-27.98
=====	
Economic (full ownership) costs:	
Variable cash expenses	120.88
General farm overhead	8.64
Taxes and insurance	9.25
Capital replacement	26.98
Allocated returns to owned inputs:	
Return to operating capital	2.60
Return to other nonland capital	6.13
Net land return	27.71
Unpaid labor	12.73
Total, economic costs	214.93
Residual returns to management and risk (excl. direct Gov't payments)	-62.85
=====	
Harvest-period price (dollars/bu.)	1.70
Yield (bu./planted acre)	89.46
=====	

All costs and returns are preliminary as of 9/1/88.

Table 135--Tennessee wheat production costs per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	84.79
Secondary crop	3.31
Total	88.10
=====	
Cash expenses:	
Seed	12.58
Fertilizer	20.26
Lime and gypsum	.37
Chemicals	.49
Custom operations	1.60
Fuel, lube, and electricity	5.03
Repairs	5.37
Hired labor	2.21
Total, variable cash expenses	47.91
General farm overhead	5.00
Taxes and insurance	5.12
Interest on operating loans	2.67
Interest on real estate	5.62
Total, fixed cash expenses	18.41
Total, cash expenses	66.32
Gross value less cash expenses (excl. direct Gov't payments)	21.78
Capital replacement	17.47
Gross value less cash expenses and replacement (excl. direct Gov't payments)	4.31
=====	
Economic (full ownership) costs:	
Variable cash expenses	47.91
General farm overhead	5.00
Taxes and insurance	5.12
Capital replacement	17.47
Allocated returns to owned inputs:	
Return to operating capital	1.50
Return to other nonland capital	3.60
Net land return	24.76
Unpaid labor	4.92
Total, economic costs	110.28
Residual returns to management and risk (excl. direct Gov't payments)	-22.18
=====	
Harvest-period price (dollars/bu.)	2.60
Yield (bu./planted acre)	32.61

All costs and returns are preliminary as of 9/1/88.

Table 136--Tennessee soybean production costs per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	189.73
Total	189.73
=====	
Cash expenses:	
Seed	8.68
Fertilizer	10.85
Lime and gypsum	1.33
Chemicals	19.25
Custom operations	4.24
Fuel, lube, and electricity	8.32
Repairs	8.98
Hired labor	2.14
Technical services	.01
Total, variable cash expenses	63.80
General farm overhead	10.78
Taxes and insurance	7.92
Interest on operating loans	5.75
Interest on real estate	12.11
Total, fixed cash expenses	36.56
Total, cash expenses	100.36
Gross value less cash expenses (excl. direct Gov't payments)	89.37
Capital replacement	29.61
Gross value less cash expenses and replacement (excl. direct Gov't payments)	59.76
=====	
Economic (full ownership) costs:	
Variable cash expenses	63.80
General farm overhead	10.78
Taxes and insurance	7.92
Capital replacement	29.61
Allocated returns to owned inputs:	
Return to operating capital	1.60
Return to other nonland capital	5.52
Net land return	41.32
Unpaid labor	8.05
Total, economic costs	168.60
Residual returns to management and risk (excl. direct Gov't payments)	21.13
=====	
Harvest-period price (dollars/bu.)	5.46
Yield (bu./planted acre)	34.75

All costs and returns are preliminary as of 9/1/88.

Table 137--Tennessee cotton production costs per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	444.42
Secondary crop	44.11
Total	488.53
=====	
Cash expenses:	
Seed	8.83
Fertilizer	34.89
Lime and gypsum	.83
Chemicals	26.51
Custom operations	12.56
Fuel, lube, and electricity	15.37
Repairs	28.86
Hired labor	15.24
Ginning	57.27
Technical services	.66
Total, variable cash expenses	201.02
General farm overhead	27.75
Taxes and insurance	12.19
Interest on operating loans	14.80
Interest on real estate	31.17
Total, fixed cash expenses	85.91
Total, cash expenses	286.93
Gross value less cash expenses (excl. direct Gov't payments)	201.60
Capital replacement	53.76
Gross value less cash expenses and replacement (excl. direct Gov't payments)	147.84
=====	
Economic (full ownership) costs:	
Variable cash expenses	201.02
General farm overhead	27.75
Taxes and insurance	12.19
Capital replacement	53.76
Allocated returns to owned inputs:	
Return to operating capital	2.56
Return to other nonland capital	10.35
Net land return	71.06
Unpaid labor	6.23
Total, economic costs	384.92
Residual returns to management and risk (excl. direct Gov't payments)	103.61
=====	
Harvest-period price (dollars/lb.)	.64
Yield (lbs./planted acre)	693.33

All costs and returns are preliminary as of 9/1/88.

Table 138--Texas corn (dryland) production costs per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	157.56
Total	157.56
=====	
Cash expenses:	
Seed	14.10
Fertilizer	25.11
Lime and gypsum	1.60
Chemicals	12.48
Custom operations	6.62
Fuel, lube, and electricity	10.02
Repairs	9.39
Hired labor	4.18
Drying	.22
Total, variable cash expenses	83.72
General farm overhead	10.32
Taxes and insurance	7.72
Interest on operating loans	8.98
Interest on real estate	8.11
Total, fixed cash expenses	35.13
Total, cash expenses	118.85
Gross value less cash expenses (excl. direct Gov't payments)	38.71
Capital replacement	24.73
Gross value less cash expenses and replacement (excl. direct Gov't payments)	13.98
=====	
Economic (full ownership) costs:	
Variable cash expenses	83.72
General farm overhead	10.32
Taxes and insurance	7.72
Capital replacement	24.73
Allocated returns to owned inputs:	
Return to operating capital	2.43
Return to other nonland capital	4.90
Net land return	29.74
Unpaid labor	11.91
Total, economic costs	175.47
Residual returns to management and risk (excl. direct Gov't payments)	-17.91
=====	
Harvest-period price (dollars/bu.)	1.88
Yield (bu./planted acre)	83.81

All costs and returns are preliminary as of 9/1/88.

Table 139--Texas corn (irrigated) production costs per planted acre

Item	1987
Dollars	
Gross value (excl. direct Gov't. payments):	
Primary crop	297.64
Total	297.64
=====	
Cash expenses:	
Seed	18.53
Fertilizer	45.27
Chemicals	21.22
Custom operations	15.67
Fuel, lube, and electricity	76.83
Repairs	24.05
Hired labor	9.15
Drying	1.24
Technical services	.75
Total, variable cash expenses	212.71
General farm overhead	19.50
Taxes and insurance	9.44
Interest on operating loans	16.97
Interest on real estate	15.33
Total, fixed cash expenses	61.24
Total, cash expenses	273.95
Gross value less cash expenses (excl. direct Gov't payments)	23.69
Capital replacement	45.75
Gross value less cash expenses and replacement (excl. direct Gov't payments)	-22.06
=====	
Economic (full ownership) costs:	
Variable cash expenses	212.71
General farm overhead	19.50
Taxes and insurance	9.44
Capital replacement	45.75
Allocated returns to owned inputs:	
Return to operating capital	5.36
Return to other nonland capital	9.35
Net land return	50.40
Unpaid labor	26.03
Total, economic costs	378.54
Residual returns to management and risk (excl. direct Gov't payments)	-80.90
=====	
Harvest-period price (dollars/bu.)	1.88
Yield (bu./planted acre)	158.32

All costs and returns are preliminary as of 9/1/88.

Table 140--Texas grain sorghum production costs per planted acre

Item	1987
Dollars	
Gross value (excl. direct Gov't. payments):	
Primary crop	90.68
Total	90.68
=====	
Cash expenses:	
Seed	3.91
Fertilizer	13.82
Chemicals	6.81
Custom operations	6.27
Fuel, lube, and electricity	16.09
Repairs	9.05
Hired labor	3.63
Drying	.20
Total, variable cash expenses	59.78
General farm overhead	5.94
Taxes and insurance	6.00
Interest on operating loans	5.17
Interest on real estate	4.67
Total, fixed cash expenses	21.78
Total, cash expenses	81.56
Gross value less cash expenses (excl. direct Gov't payments)	9.12
Capital replacement	23.12
Gross value less cash expenses and replacement (excl. direct Gov't payments)	-14.00
=====	
Economic (full ownership) costs:	
Variable cash expenses	59.78
General farm overhead	5.94
Taxes and insurance	6.00
Capital replacement	23.12
Allocated returns to owned inputs:	
Return to operating capital	1.52
Return to other nonland capital	4.67
Net land return	25.60
Unpaid labor	14.53
Total, economic costs	141.16
Residual returns to management and risk (excl. direct Gov't payments)	-50.48
=====	
Harvest-period price (dollars/bu.)	1.51
Yield (bu./planted acre)	60.05

All costs and returns are preliminary as of 9/1/88.

Table 141--Texas wheat production costs
per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	34.85
Total	34.85
Cash expenses:	
Seed	5.97
Fertilizer	11.25
Chemicals	10.34
Custom operations	3.65
Fuel, lube, and electricity	15.62
Repairs	6.30
Hired labor	2.47
Technical services	.96
Total, variable cash expenses	56.56
General farm overhead	2.28
Taxes and insurance	4.26
Interest on operating loans	1.99
Interest on real estate	1.79
Total, fixed cash expenses	10.32
Total, cash expenses	66.88
Gross value less cash expenses (excl. direct Gov't payments)	-32.03
Capital replacement	15.88
Gross value less cash expenses and replacement (excl. direct Gov't payments)	-47.91
Economic (full ownership) costs:	
Variable cash expenses	56.56
General farm overhead	2.28
Taxes and insurance	4.26
Capital replacement	15.88
Allocated returns to owned inputs:	
Return to operating capital	2.11
Return to other nonland capital	3.44
Net land return	15.64
Unpaid labor	5.50
Total, economic costs	105.67
Residual returns to management and risk (excl. direct Gov't payments)	-70.82
Harvest-period price (dollars/bu.)	2.35
Yield (bu./planted acre)	14.83

All costs and returns are preliminary as of 9/1/88.

Table 142--Texas (upper Gulf Coast) rice
production costs per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	270.26
Total	270.26
Cash expenses:	
Seed	25.75
Fertilizer	29.49
Chemicals	.38
Custom operations	65.18
Fuel, lube, and electricity	40.47
Repairs	24.21
Hired labor	28.14
Drying	52.17
Technical services	4.38
Total, variable cash expenses	270.17
General farm overhead	17.70
Taxes and insurance	11.69
Interest on operating loans	15.40
Interest on real estate	13.92
Total, fixed cash expenses	58.71
Total, cash expenses	328.88
Gross value less cash expenses (excl. direct Gov't payments)	-58.62
Capital replacement	37.37
Gross value less cash expenses and replacement (excl. direct Gov't payments)	-95.99
Economic (full ownership) costs:	
Variable cash expenses	270.17
General farm overhead	17.70
Taxes and insurance	11.69
Capital replacement	37.37
Allocated returns to owned inputs:	
Return to operating capital	6.47
Return to other nonland capital	9.17
Net land return	14.20
Unpaid labor	19.55
Total, economic costs	386.32
Residual returns to management and risk (excl. direct Gov't payments)	-116.06
Harvest-period price (dollars/cwt.)	4.99
Yield (cwt./planted acre)	54.16

All costs and returns are preliminary as of 9/1/88.

Table 143--Texas (lower Gulf Coast) rice
production costs per planted acre

Item	1987
Dollars	
Gross value (excl. direct Gov't. payments):	
Primary crop	310.83
Total	310.83
=====	
Cash expenses:	
Seed	26.50
Fertilizer	31.13
Chemicals	2.91
Custom operations	74.07
Fuel, lube, and electricity	45.73
Repairs	32.39
Hired labor	31.84
Drying	50.06
Technical services	7.62
Total, variable cash expenses	302.25
General farm overhead	20.36
Taxes and insurance	15.03
Interest on operating loans	17.72
Interest on real estate	16.01
Total, fixed cash expenses	69.12
Total, cash expenses	371.37
Gross value less cash expenses (excl. direct Gov't payments)	-60.54
Capital replacement	63.17
Gross value less cash expenses and replacement (excl. direct Gov't payments)	-123.71
=====	
Economic (full ownership) costs:	
Variable cash expenses	302.25
General farm overhead	20.36
Taxes and insurance	15.03
Capital replacement	63.17
Allocated returns to owned inputs:	
Return to operating capital	6.41
Return to other nonland capital	13.34
Net land return	18.67
Unpaid labor	22.12
Total, economic costs	461.35
Residual returns to management and risk (excl. direct Gov't payments)	-150.52
=====	
Harvest-period price (dollars/cwt.)	4.99
Yield (cwt./planted acre)	62.29

All costs and returns are preliminary as of 9/1/88.

Table 144--Texas peanut (dryland) production costs
per planted acre

Item	1987
Dollars	
Gross value (excl. direct Gov't. payments):	
Primary crop	334.26
Secondary crop	8.75
Total	343.01
=====	
Cash expenses:	
Seed	52.95
Fertilizer	12.70
Lime and gypsum	1.60
Chemicals	22.80
Custom operations	4.27
Fuel, lube, and electricity	14.11
Repairs	13.13
Hired labor	16.67
Drying	19.80
Technical services	.17
Total, variable cash expenses	158.20
General farm overhead	22.47
Taxes and insurance	9.40
Interest on operating loans	19.55
Interest on real estate	17.66
Total, fixed cash expenses	69.08
Total, cash expenses	227.28
Gross value less cash expenses (excl. direct Gov't payments)	115.73
Capital replacement	33.13
Gross value less cash expenses and replacement (excl. direct Gov't payments)	82.60
=====	
Economic (full ownership) costs:	
Variable cash expenses	158.20
General farm overhead	22.47
Taxes and insurance	9.40
Capital replacement	33.13
Allocated returns to owned inputs:	
Return to operating capital	2.78
Return to other nonland capital	7.63
Net land return	47.70
Unpaid labor	18.05
Total, economic costs	299.36
Residual returns to management and risk (excl. direct Gov't payments)	43.65
=====	
Harvest-period price (dollars/lb.)	.29
Yield (lbs./planted acre)	1168.73

All costs and returns are preliminary as of 9/1/88.

Table 145--Texas peanut (irrigated) production costs per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	669.42
Secondary crop	17.51
Total	686.93
=====	
Cash expenses:	
Seed	52.95
Fertilizer	18.55
Chemicals	44.62
Custom operations	12.86
Fuel, lube, and electricity	60.45
Repairs	32.95
Hired labor	24.67
Drying	24.05
Technical services	.94
Total, variable cash expenses	272.04
General farm overhead	44.99
Taxes and insurance	13.81
Interest on operating loans	39.15
Interest on real estate	35.38
Total, fixed cash expenses	133.33
Total, cash expenses	405.37
Gross value less cash expenses (excl. direct Gov't. payments)	281.56
Capital replacement	72.81
Gross value less cash expenses and replacement (excl. direct Gov't. payments)	208.75
=====	
Economic (full ownership) costs:	
Variable cash expenses	272.04
General farm overhead	44.99
Taxes and insurance	13.81
Capital replacement	72.81
Allocated returns to owned inputs:	
Return to operating capital	4.91
Return to other nonland capital	15.03
Net land return	103.24
Unpaid labor	26.72
Total, economic costs	553.55
Residual returns to management and risk (excl. direct Gov't. payments)	133.38
=====	
Harvest-period price (dollars/lb.)	.29
Yield (lbs./planted acre)	2340.64

All costs and returns are preliminary as of 9/1/88.

Table 146--Texas cotton (dryland) production costs per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	258.58
Secondary crop	28.65
Total	287.23
=====	
Cash expenses:	
Seed	8.74
Fertilizer	5.20
Chemicals	18.38
Custom operations	4.71
Fuel, lube, and electricity	11.98
Repairs	11.04
Hired labor	17.42
Ginning	45.32
Technical services	.21
Total, variable cash expenses	123.00
General farm overhead	18.81
Taxes and insurance	6.34
Interest on operating loans	16.37
Interest on real estate	14.79
Total, fixed cash expenses	56.31
Total, cash expenses	179.31
Gross value less cash expenses (excl. direct Gov't. payments)	107.92
Capital replacement	26.96
Gross value less cash expenses and replacement (excl. direct Gov't. payments)	80.96
=====	
Economic (full ownership) costs:	
Variable cash expenses	123.00
General farm overhead	18.81
Taxes and insurance	6.34
Capital replacement	26.96
Allocated returns to owned inputs:	
Return to operating capital	1.92
Return to other nonland capital	5.02
Net land return	54.23
Unpaid labor	7.12
Total, economic costs	243.40
Residual returns to management and risk (excl. direct Gov't. payments)	43.83
=====	
Harvest-period price (dollars/lb.)	.62
Yield (lbs./planted acre)	416.40

All costs and returns are preliminary as of 9/1/88.

Table 147--Texas cotton (irrigated) production costs per planted acre

Item	1987
Dollars	
Gross value (excl. direct Gov't. payments):	
Primary crop	372.85
Secondary crop	41.31
Total	414.16
=====	
Cash expenses:	
Seed	9.93
Fertilizer	11.98
Chemicals	35.46
Custom operations	9.63
Fuel, lube, and electricity	40.13
Repairs	22.83
Hired labor	30.54
Ginning	64.74
Technical services	1.17
Total, variable cash expenses	226.41
General farm overhead	27.13
Taxes and insurance	10.04
Interest on operating loans	23.61
Interest on real estate	21.33
Total, fixed cash expenses	82.11
Total, cash expenses	308.52
Gross value less cash expenses (excl. direct Gov't. payments)	105.64
Capital replacement	51.42
Gross value less cash expenses and replacement (excl. direct Gov't. payments)	54.22
=====	
Economic (full ownership) costs:	
Variable cash expenses	226.41
General farm overhead	27.13
Taxes and insurance	10.04
Capital replacement	51.42
Allocated returns to owned inputs:	
Return to operating capital	3.67
Return to other nonland capital	10.22
Net land return	71.01
Unpaid labor	12.47
Total, economic costs	412.37
Residual returns to management and risk (excl. direct Gov't. payments)	1.79
=====	
Harvest-period price (dollars/lb.)	.62
Yield (lbs./planted acre)	600.40

All costs and returns are preliminary as of 9/1/88.

Table 148--Virginia corn production costs per planted acre

Item	1987
Dollars	
Gross value (excl. direct Gov't. payments):	
Primary crop	103.51
Total	103.51
=====	
Cash expenses:	
Seed	17.29
Fertilizer	42.00
Lime and gypsum	7.82
Chemicals	23.57
Custom operations	10.64
Fuel, lube, and electricity	6.84
Repairs	8.47
Hired labor	3.92
Drying	1.43
Technical services	.68
Total, variable cash expenses	122.66
General farm overhead	5.88
Taxes and insurance	8.90
Interest on operating loans	3.14
Interest on real estate	6.60
Total, fixed cash expenses	24.52
Total, cash expenses	147.18
Gross value less cash expenses (excl. direct Gov't. payments)	-43.67
Capital replacement	21.10
Gross value less cash expenses and replacement (excl. direct Gov't. payments)	-64.77
=====	
Economic (full ownership) costs:	
Variable cash expenses	122.66
General farm overhead	5.88
Taxes and insurance	8.90
Capital replacement	21.10
Allocated returns to owned inputs:	
Return to operating capital	2.88
Return to other nonland capital	4.60
Net land return	23.88
Unpaid labor	11.17
Total, economic costs	201.07
Residual returns to management and risk (excl. direct Gov't. payments)	-97.56
=====	
Harvest-period price (dollars/bu.)	1.78
Yield (bu./planted acre)	58.15

All costs and returns are preliminary as of 9/1/88.

Table 149--Virginia wheat production costs
per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	89.01
Secondary crop	4.33
Total	93.34
Cash expenses:	
Seed	9.41
Fertilizer	20.50
Lime and gypsum	1.07
Chemicals	.63
Custom operations	1.50
Fuel, lube, and electricity	5.50
Repairs	5.33
Hired labor	3.26
Technical services	.01
Total, variable cash expenses	47.21
General farm overhead	5.30
Taxes and insurance	4.79
Interest on operating loans	2.83
Interest on real estate	5.95
Total, fixed cash expenses	18.87
Total, cash expenses	66.08
Gross value less cash expenses (excl. direct Gov't payments)	27.26
Capital replacement	16.67
Gross value less cash expenses and replacement (excl. direct Gov't payments)	10.59
Economic (full ownership) costs:	
Variable cash expenses	47.21
General farm overhead	5.30
Taxes and insurance	4.79
Capital replacement	16.67
Allocated returns to owned inputs:	
Return to operating capital	1.82
Return to other nonland capital	3.54
Net land return	19.45
Unpaid labor	7.25
Total, economic costs	106.03
Residual returns to management and risk (excl. direct Gov't payments)	-12.69
Harvest-period price (dollars/bu.)	2.53
Yield (bu./planted acre)	35.18

All costs and returns are preliminary as of 9/1/88.

Table 150--Virginia peanut production costs
per planted acre

Item	1987
	Dollars
Gross value (excl. direct Gov't. payments):	
Primary crop	672.53
Secondary crop	16.24
Total	688.77
Cash expenses:	
Seed	89.47
Fertilizer	9.09
Lime and gypsum	21.84
Chemicals	124.83
Custom operations	2.00
Fuel, lube, and electricity	20.69
Repairs	16.69
Hired labor	16.81
Drying	49.88
Total, variable cash expenses	351.30
General farm overhead	39.12
Taxes and insurance	11.13
Interest on operating loans	20.87
Interest on real estate	43.94
Total, fixed cash expenses	115.06
Total, cash expenses	466.36
Gross value less cash expenses (excl. direct Gov't payments)	222.41
Capital replacement	35.03
Gross value less cash expenses and replacement (excl. direct Gov't payments)	187.38
Economic (full ownership) costs:	
Variable cash expenses	351.30
General farm overhead	39.12
Taxes and insurance	11.13
Capital replacement	35.03
Allocated returns to owned inputs:	
Return to operating capital	7.96
Return to other nonland capital	8.92
Net land return	75.71
Unpaid labor	18.21
Total, economic costs	547.38
Residual returns to management and risk (excl. direct Gov't payments)	141.39
Harvest-period price (dollars/lb.)	.27
Yield (lbs./planted acre)	2472.53

All costs and returns are preliminary as of 9/1/88.

Table 155--Wisconsin corn production costs
per planted acre

Item	1987
Dollars	
Gross value (excl. direct Gov't. payments):	
Primary crop	188.63
Total	188.63
=====	
Cash expenses:	
Seed	16.07
Fertilizer	36.10
Lime and gypsum	2.41
Chemicals	19.37
Custom operations	7.91
Fuel, lube, and electricity	9.84
Repairs	9.59
Hired labor	4.55
Drying	3.95
Technical services	.60
Total, variable cash expenses	110.39
General farm overhead	16.20
Taxes and insurance	26.09
Interest on operating loans	8.77
Interest on real estate	17.54
Total, fixed cash expenses	68.60
Total, cash expenses	178.99
Gross value less cash expenses (excl. direct Gov't payments)	9.64
Capital replacement	31.52
Gross value less cash expenses and replacement (excl. direct Gov't payments)	-21.88
=====	
Economic (full ownership) costs:	
Variable cash expenses	110.39
General farm overhead	16.20
Taxes and insurance	26.09
Capital replacement	31.52
Allocated returns to owned inputs:	
Return to operating capital	2.86
Return to other nonland capital	8.30
Net land return	20.25
Unpaid labor	12.96
Total, economic costs	228.57
Residual returns to management and risk (excl. direct Gov't payments)	-39.94
=====	
Harvest-period price (dollars/bu.)	1.61
Yield (bu./planted acre)	117.16

All costs and returns are preliminary as of 9/1/88.

Table 156--Wisconsin oats production costs
per planted acre

Item	1987
Dollars	
Gross value (excl. direct Gov't. payments):	
Primary crop	39.54
Secondary crop	35.59
Total	75.13
=====	
Cash expenses:	
Seed	6.26
Fertilizer	9.55
Lime and gypsum	4.06
Chemicals	2.14
Custom operations	4.00
Fuel, lube, and electricity	8.46
Repairs	6.79
Hired labor	2.19
Technical services	.15
Total, variable cash expenses	43.60
General farm overhead	6.45
Taxes and insurance	21.41
Interest on operating loans	3.49
Interest on real estate	6.99
Total, fixed cash expenses	38.34
Total, cash expenses	81.94
Gross value less cash expenses (excl. direct Gov't payments)	-6.81
Capital replacement	20.66
Gross value less cash expenses and replacement (excl. direct Gov't payments)	-27.47
=====	
Economic (full ownership) costs:	
Variable cash expenses	43.60
General farm overhead	6.45
Taxes and insurance	21.41
Capital replacement	20.66
Allocated returns to owned inputs:	
Return to operating capital	1.16
Return to other nonland capital	5.32
Net land return	12.88
Unpaid labor	16.07
Total, economic costs	127.55
Residual returns to management and risk (excl. direct Gov't payments)	-52.42
=====	
Harvest-period price (dollars/bu.)	1.19
Yield (bu./planted acre)	33.23

All costs and returns are preliminary as of 9/1/88.

Table 157--Wyoming barley (irrigated) production costs per planted acre

Item	1987
Dollars	
Gross value (excl. direct Gov't. payments):	
Primary crop	97.67
Secondary crop	15.62
Total	113.29
=====	
Cash expenses:	
Seed	5.68
Fertilizer	11.33
Chemicals	5.73
Custom operations	1.64
Fuel, lube, and electricity	16.34
Repairs	12.40
Hired labor	12.61
Total, variable cash expenses	65.73
General farm overhead	10.22
Taxes and insurance	11.88
Interest on operating loans	5.52
Interest on real estate	16.47
Total, fixed cash expenses	44.09
Total, cash expenses	109.82
Gross value less cash expenses (excl. direct Gov't payments)	3.47
Capital replacement	33.17
Gross value less cash expenses and replacement (excl. direct Gov't payments)	-29.70
=====	
Economic (full ownership) costs:	
Variable cash expenses	65.73
General farm overhead	10.22
Taxes and insurance	11.88
Capital replacement	33.17
Allocated returns to owned inputs:	
Return to operating capital	1.02
Return to other nonland capital	8.05
Net land return	16.52
Unpaid labor	14.23
Total, economic costs	160.82
Residual returns to management and risk (excl. direct Gov't payments)	-47.53
=====	
Harvest-period price (dollars/bu.)	1.48
Yield (bu./planted acre)	65.99

All costs and returns are preliminary as of 9/1/88.

Table 158--Wyoming wheat production costs per planted acre

Item	1987
Dollars	
Gross value (excl. direct Gov't. payments):	
Primary crop	56.30
Secondary crop	.12
Total	56.42
=====	
Cash expenses:	
Seed	4.41
Fertilizer	.20
Chemicals	.19
Custom operations	1.20
Fuel, lube, and electricity	5.44
Repairs	7.45
Hired labor	1.57
Total, variable cash expenses	20.46
General farm overhead	5.09
Taxes and insurance	7.40
Interest on operating loans	2.75
Interest on real estate	8.20
Total, fixed cash expenses	23.44
Total, cash expenses	43.90
Gross value less cash expenses (excl. direct Gov't payments)	12.52
Capital replacement	27.55
Gross value less cash expenses and replacement (excl. direct Gov't payments)	-15.03
=====	
Economic (full ownership) costs:	
Variable cash expenses	20.46
General farm overhead	5.09
Taxes and insurance	7.40
Capital replacement	27.55
Allocated returns to owned inputs:	
Return to operating capital	.80
Return to other nonland capital	5.78
Net land return	15.81
Unpaid labor	3.49
Total, economic costs	86.38
Residual returns to management and risk (excl. direct Gov't payments)	-29.96
=====	
Harvest-period price (dollars/bu.)	2.10
Yield (bu./planted acre)	26.81

All costs and returns are preliminary as of 9/1/88.

UNITED STATES DEPARTMENT OF AGRICULTURE
ECONOMIC RESEARCH SERVICE
1301 NEW YORK AVENUE, NW.
WASHINGTON, DC 20005-4788