



DIVISION OF AGRICULTURE

RESEARCH & EXTENSION

University of Arkansas System

2018 Crop Enterprise Budgets

for Arkansas Field Crops Planted in 2018

2018 Crop Enterprise Budgets

October 2017

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Cooperative Extension Service

User's Guide for Interactive Crop Enterprise Budgets in Excel

For questions and comments related to the University of Arkansas Crop Enterprise Budget Program contact Breana Watkins at 870-933-4565 or bjwatkins@uaex.edu.

General Information

Crop enterprise budgets in Excel are interactive versions of the printed budgets contained in the publication *2018 Crop Enterprise Budgets*. Interactive budgets enable users to change data related to specific operations. Costs and returns are calculated based on changes within an Excel spreadsheet.

Crop Enterprise Budgets

Files for specific crops are interactive budgets for each crop. Users should mainly change data values of white cells. All cells that contain formulas calculating costs and returns are locked. The "Budget" worksheet includes grower percentages in column B for revenue and costs items to represent share rent circumstances. Percentage values represent grower share received as revenue or paid for an input. Enter revised percentage values as whole numbers with no decimals and the program will interpret the entries as percentages. Cells, open for changing in column D, are for alternative input levels. Open cells in column E are for alternative input prices.

Yield is entered in cell D3 and price in cell E3 of the "Budget" worksheet. Net returns are calculated in cell F52. Changing yield in cell D3 and price in cell E3 changes values in cells of columns F. The revised crop value is calculated in cell F3.

The "Seed-Chemical" worksheet contains information for seeds planted and chemicals applied to crops. Changes in the seed price are entered in cell D3. Changes in the price of chemicals are entered in cells of column D. Net returns are revised in cell F52 of the "Budget" worksheet.

The "Machine" worksheet allows users to make alternative equipment selections. Changes in cells of column B revise the number of field trips for an equipment unit. Alternatively, changes

can be entered in cells for equipment prices, width, ground speed, and horse power. Entries in the “Machine” worksheet result in revisions to net returns in cell F52 of the “Budget” worksheet.

All files for individual crop budgets have identical formats and can be similarly revised by users changing values of any of the white cells.

Budget Summaries

Budget summaries include costs and returns comparisons between crops which are grouped by irrigation type. There are a total of three summary tables for surface irrigation, center pivot irrigation, and non-irrigated crops. Data for summary budgets are entered by users in the white cells with block outlines. Data results in the colored cells are automatically calculated by formulas and are locked. Formats of all summary tables are identical.

Example for Table S-1: Yields are entered in cells of row 3, and prices are entered in cells of row 4. Net returns to operating expenses are automatically calculated in cells of row 14. Changes in yields and prices result in changed values for cells in rows 14, 16, 18, and 19.

All in Table S-1, as well as crops in Table S-2 and Table S-3, are similarly revised by users changing values of any of the appropriate cells.



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2018 Crop Enterprise Budgets

The Department of Agricultural Economics and Agribusiness (AEAB) develops crop enterprise budgets to assist Arkansas producers and other agricultural stakeholders in evaluating expected costs and returns for the upcoming field crop production year. Production methods analyzed represent typical field activities as determined by consultations with farmers, county agents, and information from Crop Research Verification Program Coordinators in the Department of Crop, Soil, and Environmental Sciences. Actual production practices vary greatly among individual farms due to management preferences and between production years due to climactic conditions. Analyses are for generalized circumstances with a focus on consistent and coordinated application of budget methods for all field crops. This approach results in meaningful costs and returns comparisons for decision making related to acreage allocations among field crops. Presentations in this report should be regarded only as a guide and basis for individual farmers developing budgets for their production practices, soil types, and other unique circumstances. AEAB periodically issues reports devoted to economic comparisons of alternative production practices. These reports offer greater detail for a range of production practices, seeds, and inputs.

Interactive versions of budgets in this report are available online. Users may change selected variables to represent their unique circumstances. Variables available for changing are in white spreadsheet cells. Numbers in colored cells are from formulas that change values as users make changes in white cells. County agents may produce budgets representative of unique conditions in their counties. Users should contact their county agents for assistance in developing customized budgets unique to individual farm situations.

Summary of Methods

Methods employed for developing crop enterprise budgets include input prices that are estimated directly from information available from suppliers and other sources, as well as costs estimated from engineering formulas developed by the American Society of Agricultural and Biological Engineers. Input costs for fertilizers and chemicals are estimated by applying prices to typical input rates. Input prices, custom hire rates, and fees are estimated with information from industry contacts. Methods of estimating these operating expenses presented in crop enterprise budgets are identical to producers obtaining costs information for their specific farms.

Ownership costs and repair expenses for machinery are estimated by applying engineering formulas to representative prices of new equipment (Givan 1991; Lazarus and Selly 2002). Repair expenses in crop enterprise budgets should be regarded as value estimates of full service repairs. Repairs and maintenance performed by hired farm labor will be partially realized as wages paid to employees. Machinery performance rates of field activities utilized for machinery costs are used to estimate time requirements of an activity which is applied to an hourly wage rate for determining labor costs (USDA, NASS 2017). Labor costs in crop enterprise budgets represent time devoted to specified field activities.

Ownership costs of machinery are determined by the capital recovery method which determines the amount of money that should be set aside each year to replace the value of equipment used in production (Kay and Edwards 1999). This measure differs from typical depreciation methods, as

well as actual cash expenses for machinery. Amortization factors applied for capital recovery estimation coincide with prevailing long-term interest rates (Edwards 2005). Interest rates in this report are from regional lenders as reported in late 2016. Representative prices for machinery and equipment are based on contacts with Arkansas dealers, industry list prices, and reference sources (Deere & Company 2017; MSU 2017). Revenue in crop enterprise budgets is the product of expected yields from following Extension practices under optimal growing conditions and projected commodity prices.

Table S-1. Summary of Revenue and Expenses per Acre, Surface Irrigation

	Hybrid					
Receipts	Cotton	Corn	Sorghum	Soybean	Rice	Peanut
Yield (cotton-lb, peanut-ton, other-bu)	1200	210	105	60	190	2.25
Price (\$/yield unit)	0.65	3.35	3.00	9.40	5.15	465.00
Grower Share, %	100%	100%	100%	100%	100%	100%
Crop Revenue	780.00	703.50	315.00	564.00	978.50	1046.25
¹Gin Rebate/Bale						
Operating Expenses						
Input Costs	493.47	384.96	203.06	250.83	471.25	316.10
Other Operating Expenses	92.41	63.90	52.38	47.24	69.27	73.86
Total Operating Expenses	585.88	448.86	255.44	298.07	540.52	389.96
Post-harvest Expenses	179.58	94.50	27.30	19.02	114.67	81.11
²Net Operating Expenses	585.88	543.36	282.74	317.09	655.19	471.07
Cash Land Rent	0.00	0.00	0.00	0.00	0.00	0.00
³Returns to Operating Expenses	194.12	160.14	32.26	246.91	323.31	575.18
Fixed Costs	178.23	105.10	87.39	82.89	123.30	174.25
⁴Total Specified Expenses	764.11	648.46	370.13	399.98	778.49	645.32
³Returns to Specified Expenses	15.89	55.04	-55.13	164.02	200.01	400.93
Operating Expenses/yield unit	0.49	2.59	2.69	5.28	3.45	209.36
Total Expenses ⁴ /yield unit	0.64	3.09	3.53	6.67	4.10	286.81
Land Expense/acre	0.00	0.00	0.00	0.00	0.00	0.00
Land Expense/yield unit	0.00	0.00	0.00	0.00	0.00	0.00
Operating & Land Expenses/yield unit	0.49	2.59	2.69	5.28	3.45	209.36
Total Cost/yield unit, including land	0.64	3.09	3.53	6.67	4.10	286.81

¹Gin rebate is set equal to post-harvest expenses.

²Cottonseed value (gin rebate) deducted from post-harvest expenses.

³Share rent and cash land rent are deducted from crop revenue.

⁴Does not include land costs, management, or other expenses and fees not associated with production.

Table S-2. Summary of Revenue and Expenses per Acre, Pivot Irrigation

Receipts	Cotton	Corn	Sorghum	Soybean	Peanut
Yield (cotton-lb, peanut-ton, other-bu)	1200	210	105	60	2.25
Price (\$/yield unit)	0.65	3.35	3.00	9.40	465.00
Grower Share, %	100%	100%	100%	100%	100%
Crop Revenue	780.00	703.50	315.00	564.00	1046.25
¹Gin Rebate/Bale					
Operating Expenses					
Input Costs	502.71	399.12	211.82	275.13	326.98
Other Operating Expenses	97.32	71.15	56.93	54.88	79.38
Total Operating Expenses	600.03	470.27	268.75	330.01	406.36
Post-harvest Expenses	179.58	94.50	27.30	19.02	81.11
²Net Operating Expenses	600.03	564.77	296.05	349.03	487.47
Cash Land Rent	0.00	0.00	0.00	0.00	0.00
³Returns to Operating Expenses	179.97	138.73	18.95	214.97	558.78
Fixed Costs	225.16	164.20	129.55	140.53	224.97
⁴Total Specified Expenses	825.19	728.97	425.60	489.56	712.44
³Returns to Specified Expenses	-45.19	-25.47	-110.60	74.44	333.81
Operating Expenses/yield unit	0.50	2.69	2.82	5.82	216.65
Total Expenses ⁴ /yield unit	0.69	3.47	4.05	8.16	316.64
Land Expense/acre	0.00	0.00	0.00	0.00	0.00
Land Expense/yield unit	0.00	0.00	0.00	0.00	0.00
Operating & Land Expenses/yield unit	0.50	2.69	2.82	5.82	216.65
Total Cost/yield unit, including land	0.69	3.47	4.05	8.16	316.64

¹Gin rebate is set equal to post-harvest expenses.

²Cottonseed value (gin rebate) deducted from post-harvest expenses.

³Share rent and cash land rent are deducted from crop revenue.

⁴Does not include land costs, management, or other expenses and fees not associated with production.

Table S-3. Summary of Revenue and Expenses per Acre, No Irrigation

Receipts	Cotton	Corn	Sorghum	Soybean	Wheat	Peanut
Yield (cotton-lb, peanut-ton, other-bu)	800	125	65	34	70	1.50
Price (\$/yield unit)	0.65	3.35	3.00	9.40	4.90	465.00
Grower Share, %	100%	100%	100%	100%	100%	100%
Crop Revenue	520.00	418.75	195.00	319.60	343.00	697.50
¹ Gin Rebate/Bale						
Operating Expenses						
Input Costs	371.91	289.11	153.24	227.77	187.65	279.62
Other Operating Expenses	84.13	55.31	46.64	42.31	34.76	66.82
Total Operating Expenses	456.04	344.42	199.88	270.08	222.41	346.44
Post-harvest Expenses	119.72	56.25	16.90	10.78	19.60	54.08
² Net Operating Expenses	456.04	400.67	216.78	280.86	242.01	400.52
Cash Land Rent	0.00	0.00	0.00	0.00	0.00	0.00
³ Returns to Operating Expenses	63.96	18.08	-21.78	38.74	100.99	296.98
Fixed Costs	161.15	81.84	72.53	68.94	60.44	153.89
⁴ Total Specified Expenses	617.19	482.51	289.31	349.80	302.45	554.41
³ Returns to Specified Expenses	-97.19	-63.76	-94.31	-30.20	40.55	143.09
Operating Expenses/yield unit	0.57	3.21	3.34	8.26	3.46	267.01
Total Expenses ⁴ /yield unit	0.77	3.86	4.45	10.29	4.32	369.61
Land Expense/acre	0.00	0.00	0.00	0.00	0.00	0.00
Land Expense/yield unit	0.00	0.00	0.00	0.00	0.00	0.00
Operating & Land Expenses/yield unit	0.57	3.21	3.34	8.26	3.46	267.01
Total Cost/yield unit, including land	0.77	3.86	4.45	10.29	4.32	369.61

¹Gin rebate is set equal to post-harvest expenses.

²Cottonseed value (gin rebate) deducted from post-harvest expenses.

³Share rent and cash land rent are deducted from crop revenue.

⁴Does not include land costs, management, or other expenses and fees not associated with production.

Table 15. 2018 Soybean Enterprise Budget, RR, Furrow Irrigation

CROP VALUE	Grower %	Unit	¹Yield	Price/Unit	Revenue
Crop Value, Enter Expected Farm Yield & Price	100%	Bu.	60.00	9.40	564.00
OPERATING EXPENSES					
		Unit	Quantity	²Price/Unit	Costs
Seed, Includes Applicable Fees	100%	Acre	1	60.00	60.00
Nitrogen 100%	100%	Lbs	0	0.00	0.00
Phosphate (P2O5) 100%	100%	Lbs	40	0.41	16.30
Potash (K2O) 100%	100%	Lbs	60	0.26	15.75
Sulfur 100%	100%	Lbs	0	0.36	0.00
Boron 100%	100%	Lbs	0.00	6.67	0.00
Other Nutrients, Including Poultry Litter	100%	Acre	1.00	0.00	0.00
Herbicide	100%	Acre	1	78.58	78.58
Insecticide	100%	Acre	1	17.23	17.23
Fungicide	100%	Acre	1	13.67	13.67
Other Chemical	100%	Acre	1	0.00	0.00
Other Chemical	100%	Acre	1	0.00	0.00
Custom Chemical & Fertilizer Applications					
Ground Application: Fertilizer & Chemical	100%	Acre	0	7.00	0.00
Air Application: Fertilizer & Chemical	100%	Acre	2	7.00	14.00
Air Application: Lbs.	100%	Lbs	0	0.070	0.00
Other Custom Hire, Air Seeding	100%	Acre	0	7.00	0.00
Machinery and Equipment					
Diesel Fuel, Pre-Post Harvest	100%	Gallons	3.950	2.20	8.69
Repairs and Maintenance, Pre-Post Harvest	100%	Acre	1	8.45	8.45
Diesel Fuel, Harvest	100%	Gallons	1.997	2.20	4.39
Repairs and Maintenance, Harvest	100%	Acre	1	6.24	6.24
Irrigation Energy Cost	100%	Ac-In	12	1.53	18.34
Irrigation System Repairs & Maintenance		Ac-In	12	0.13	1.50
Supplies (ex. polypipe)	100%	Acre	1	3.88	3.88
Levee Gates	100%	Acre	1	0.00	0.00
Labor, Field Activities	100%	Hrs	0.786	13.45	10.57
Scouting/Consultant Fee	100%	Acre	1	7.00	7.00
Other Expenses	100%	Acre	1	0.00	0.00
Crop Insurance	100%	Acre	1	7.21	7.21
Interest, Annual Rate Applied for 6 Months	100%	Rate %	4.30	291.80	6.27
Custom Harvest	100%	Acre	0.00	0.00	0.00
Post-Harvest Expenses					
Drying	100%	Bu.	60.00	0.00	0.00
Hauling	100%	Bu.	60.00	0.27	16.20
Check Off, Boards	100%	Bu.	60.00	0.05	2.82
Cash Land Rent		Acre	1	0.00	0.00
Total Operating Expenses					\$317.09
Returns to Operating Expenses					\$246.91
CAPITAL RECOVERY & FIXED COSTS					
Machinery and Equipment		Acre	1	68.65	68.65
Irrigation Equipment		Acre	1	10.81	10.81
Farm Overhead; See Note 3		Acre	1	3.43	3.43
Total Capital Recovery & Fixed Costs					\$82.89
TOTAL SPECIFIED EXPENSES					\$399.99
NET RETURNS					\$164.01

Note 1: Yield and inputs are based on Extension research data. Enter expected farm yield and inputs.

Note 2: All price estimates do NOT include rebates, bulk deals, or discounts available through suppliers.

Note 3: Estimate based on machinery and equipment.

Table 16. 2018 Soybean Enterprise Budget, RR, Center Pivot Irrigation

CROP VALUE	Grower %	Unit	¹Yield	Price/Unit	Revenue
Crop Value, Enter Expected Farm Yield & Price	100%	Bu.	60.00	9.40	564.00
OPERATING EXPENSES		Unit	Quantity	²Price/Unit	Costs
Seed, Includes Applicable Fees	100%	Acre	1	60.00	60.00
Nitrogen 100%	100%	Lbs	0	0.00	0.00
Phosphate (P2O5) 100%	100%	Lbs	40	0.41	16.30
Potash (K2O) 100%	100%	Lbs	60	0.26	15.75
Sulfur 100%	100%	Lbs	0	0.36	0.00
Boron 100%	100%	Lbs	0.00	6.67	0.00
Other Nutrients, Including Poultry Litter	100%	Acre	1.00	0.00	0.00
Herbicide	100%	Acre	1	78.58	78.58
Insecticide	100%	Acre	1	17.23	17.23
Fungicide	100%	Acre	1	13.67	13.67
Other Chemical	100%	Acre	1	0.00	0.00
Other Chemical	100%	Acre	1	0.00	0.00
Custom Chemical & Fertilizer Applications					
Ground Application: Fertilizer & Chemical	100%	Acre	0	7.00	0.00
Air Application: Fertilizer & Chemical	100%	Acre	2	7.00	14.00
Air Application: Lbs.	100%	Lbs	0	0.070	0.00
Other Custom Hire, Air Seeding	100%	Acre	0	7.00	0.00
Machinery and Equipment					
Diesel Fuel, Pre-Post Harvest	100%	Gallons	3.565	2.20	7.84
Repairs and Maintenance, Pre-Post Harvest	100%	Acre	1	8.24	8.24
Diesel Fuel, Harvest	100%	Gallons	1.997	2.20	4.39
Repairs and Maintenance, Harvest	100%	Acre	1	6.24	6.24
Irrigation Energy Cost	100%	Ac-In	12	3.95	47.37
Irrigation System Repairs & Maintenance		Ac-In	12	0.83	10.01
Supplies (ex. polypipe)	100%	Acre	1	0.00	0.00
Levee Gates	100%	Acre	1	0.00	0.00
Labor, Field Activities	100%	Hrs	0.686	13.45	9.23
Scouting/Consultant Fee	100%	Acre	1	7.00	7.00
Other Expenses	100%	Acre	1	0.00	0.00
Crop Insurance	100%	Acre	1	7.21	7.21
Interest, Annual Rate Applied for 6 Months	100%	Rate %	4.30	323.07	6.95
Custom Harvest	100%	Acre	0.00	0.00	0.00
Post-Harvest Expenses					
Drying	100%	Bu.	60.00	0.00	0.00
Hauling	100%	Bu.	60.00	0.27	16.20
Check Off, Boards	100%	Bu.	60.00	0.05	2.82
Cash Land Rent		Acre	1	0.00	0.00
Total Operating Expenses					\$349.04
Returns to Operating Expenses					\$214.96
CAPITAL RECOVERY & FIXED COSTS					
Machinery and Equipment		Acre	1	65.66	65.66
Irrigation Equipment		Acre	1	71.58	71.58
Farm Overhead; See Note 3		Acre	1	3.28	3.28
Total Capital Recovery & Fixed Costs					\$140.53
TOTAL SPECIFIED EXPENSES					\$489.56
NET RETURNS					\$74.44

Note 1: Yield and inputs are based on Extension research data. Enter expected farm yield and inputs.

Note 2: All price estimates do NOT include rebates, bulk deals, or discounts available through suppliers.

Note 3: Estimate based on machinery and equipment.

Table 17. 2018 Soybean Enterprise Budget, RR, No Irrigation

CROP VALUE	Grower %	Unit	¹Yield	Price/Unit	Revenue
Crop Value, Enter Expected Farm Yield & Price	100%	Bu.	34.00	9.40	319.60
OPERATING EXPENSES					
		Unit	Quantity	²Price/Unit	Costs
Seed, Includes Applicable Fees	100%	Acre	1	60.00	60.00
Nitrogen 100%	100%	Lbs	0	0.00	0.00
Phosphate (P2O5) 100%	100%	Lbs	40	0.41	16.30
Potash (K2O) 100%	100%	Lbs	60	0.26	15.75
Sulfur 100%	100%	Lbs	0	0.36	0.00
Boron 100%	100%	Lbs	0.00	6.67	0.00
Other Nutrients, Including Poultry Litter	100%	Acre	1.00	0.00	0.00
Herbicide	100%	Acre	1	78.58	78.58
Insecticide	100%	Acre	1	17.23	17.23
Fungicide	100%	Acre	1	13.67	13.67
Other Chemical	100%	Acre	1	0.00	0.00
Other Chemical	100%	Acre	1	0.00	0.00
Custom Chemical & Fertilizer Applications					
Ground Application: Fertilizer & Chemical	100%	Acre	0	7.00	0.00
Air Application: Fertilizer & Chemical	100%	Acre	2	7.00	14.00
Air Application: Lbs.	100%	Lbs	0	0.070	0.00
Other Custom Hire, Air Seeding	100%	Acre	0	7.00	0.00
Machinery and Equipment					
Diesel Fuel, Pre-Post Harvest	100%	Gallons	3.565	2.20	7.84
Repairs and Maintenance, Pre-Post Harvest	100%	Acre	1	8.24	8.24
Diesel Fuel, Harvest	100%	Gallons	1.997	2.20	4.39
Repairs and Maintenance, Harvest	100%	Acre	1	6.24	6.24
Irrigation Energy Cost	100%	Ac-In	0	0.00	0.00
Irrigation System Repairs & Maintenance		Ac-In	0	0.00	0.00
Supplies (ex. polypipe)	100%	Acre	1	0.00	0.00
Levee Gates	100%	Acre	1	0.00	0.00
Labor, Field Activities	100%	Hrs	0.590	13.45	7.94
Scouting/Consultant Fee	100%	Acre	1	7.00	7.00
Other Expenses	100%	Acre	1	0.00	0.00
Crop Insurance	100%	Acre	1	7.21	7.21
Interest, Annual Rate Applied for 6 Months	100%	Rate %	4.30	264.40	5.68
Custom Harvest	100%	Acre	0.00	0.00	0.00
Post-Harvest Expenses					
Drying	100%	Bu.	34.00	0.00	0.00
Hauling	100%	Bu.	34.00	0.27	9.18
Check Off, Boards	100%	Bu.	34.00	0.05	1.60
Cash Land Rent		Acre	1	0.00	0.00
Total Operating Expenses					\$280.86
Returns to Operating Expenses					\$38.74
CAPITAL RECOVERY & FIXED COSTS					
Machinery and Equipment		Acre	1	65.66	65.66
Irrigation Equipment		Acre	1	0.00	0.00
Farm Overhead; See Note 3		Acre	1	3.28	3.28
Total Capital Recovery & Fixed Costs					\$68.94
TOTAL SPECIFIED EXPENSES					\$349.80
NET RETURNS					-\$30.20

Note 1: Yield and inputs are based on Extension research data. Enter expected farm yield and inputs.

Note 2: All price estimates do NOT include rebates, bulk deals, or discounts available through suppliers.

Note 3: Estimate based on machinery and equipment.

Table 18. 2018 Soybean Enterprise Budget, RR, Flood Irrigation

CROP VALUE	Grower %	Unit	¹Yield	Price/Unit	Revenue
Crop Value, Enter Expected Farm Yield & Price	100%	Bu.	60.00	9.40	564.00
OPERATING EXPENSES		Unit	Quantity	²Price/Unit	Costs
Seed, Includes Applicable Fees	100%	Acre	1	60.00	60.00
Nitrogen 100%	100%	Lbs	0	0.00	0.00
Phosphate (P2O5) 100%	100%	Lbs	40	0.41	16.30
Potash (K2O) 100%	100%	Lbs	60	0.26	15.75
Sulfur 100%	100%	Lbs	0	0.36	0.00
Boron 100%	100%	Lbs	0.00	6.67	0.00
Other Nutrients, Including Poultry Litter	100%	Acre	1.00	0.00	0.00
Herbicide	100%	Acre	1	78.58	78.58
Insecticide	100%	Acre	1	17.23	17.23
Fungicide	100%	Acre	1	13.67	13.67
Other Chemical	100%	Acre	1	0.00	0.00
Other Chemical	100%	Acre	1	0.00	0.00
Custom Chemical & Fertilizer Applications					
Ground Application: Fertilizer & Chemical	100%	Acre	0	7.00	0.00
Air Application: Fertilizer & Chemical	100%	Acre	2	7.00	14.00
Air Application: Lbs.	100%	Lbs	0	0.070	0.00
Other Custom Hire, Air Seeding	100%	Acre	0	7.00	0.00
Machinery and Equipment					
Diesel Fuel, Pre-Post Harvest	100%	Gallons	4.093	2.20	9.01
Repairs and Maintenance, Pre-Post Harvest	100%	Acre	1	7.80	7.80
Diesel Fuel, Harvest	100%	Gallons	1.997	2.20	4.39
Repairs and Maintenance, Harvest	100%	Acre	1	6.24	6.24
Irrigation Energy Cost	100%	Ac-In	12	2.60	31.18
Irrigation System Repairs & Maintenance		Ac-In	12	0.24	2.88
Supplies (ex. polypipe)	100%	Acre	1	0.00	0.00
Levee Gates	100%	Acre	1	0.70	0.70
Labor, Field Activities	100%	Hrs	0.795	13.45	10.69
Scouting/Consultant Fee	100%	Acre	1	7.00	7.00
Other Expenses	100%	Acre	1	0.00	0.00
Crop Insurance	100%	Acre	1	7.21	7.21
Interest, Annual Rate Applied for 6 Months	100%	Rate %	4.30	302.64	6.51
Custom Harvest	100%	Acre	0.00	0.00	0.00
Post-Harvest Expenses					
Drying	100%	Bu.	60.00	0.00	0.00
Hauling	100%	Bu.	60.00	0.27	16.20
Check Off, Boards	100%	Bu.	60.00	0.05	2.82
Cash Land Rent		Acre	1	0.00	0.00
Total Operating Expenses					\$328.17
Returns to Operating Expenses					\$235.83
CAPITAL RECOVERY & FIXED COSTS					
Machinery and Equipment		Acre	1	66.51	66.51
Irrigation Equipment		Acre	1	17.81	17.81
Farm Overhead; See Note 3		Acre	1	3.33	3.33
Total Capital Recovery & Fixed Costs					\$87.65
TOTAL SPECIFIED EXPENSES					\$415.81
NET RETURNS					\$148.19

Note 1: Yield and inputs are based on Extension research data. Enter expected farm yield and inputs.

Note 2: All price estimates do NOT include rebates, bulk deals, or discounts available through suppliers.

Note 3: Estimate based on machinery and equipment.

Table 19. 2018 Soybean Enterprise Budget, LL, Furrow Irrigation

CROP VALUE	Grower %	Unit	¹Yield	Price/Unit	Revenue
Crop Value, Enter Expected Farm Yield & Price	100%	Bu.	60.00	9.40	564.00
OPERATING EXPENSES					
		Unit	Quantity	²Price/Unit	Costs
Seed, Includes Applicable Fees	100%	Acre	1	60.00	60.00
Nitrogen 100%	100%	Lbs	0	0.00	0.00
Phosphate (P2O5) 100%	100%	Lbs	40	0.41	16.30
Potash (K2O) 100%	100%	Lbs	60	0.26	15.75
Sulfur 100%	100%	Lbs	0	0.36	0.00
Boron 100%	100%	Lbs	0.00	6.67	0.00
Other Nutrients, Including Poultry Litter	100%	Acre	1.00	0.00	0.00
Herbicide	100%	Acre	1	80.26	80.26
Insecticide	100%	Acre	1	17.23	17.23
Fungicide	100%	Acre	1	13.67	13.67
Other Chemical	100%	Acre	1	0.00	0.00
Other Chemical	100%	Acre	1	0.00	0.00
Custom Chemical & Fertilizer Applications					
Ground Application: Fertilizer & Chemical	100%	Acre	0	7.00	0.00
Air Application: Fertilizer & Chemical	100%	Acre	2	7.00	14.00
Air Application: Lbs.	100%	Lbs	0	0.070	0.00
Other Custom Hire, Air Seeding	100%	Acre	0	7.00	0.00
Machinery and Equipment					
Diesel Fuel, Pre-Post Harvest	100%	Gallons	4.342	2.20	9.55
Repairs and Maintenance, Pre-Post Harvest	100%	Acre	1	8.89	8.89
Diesel Fuel, Harvest	100%	Gallons	1.997	2.20	4.39
Repairs and Maintenance, Harvest	100%	Acre	1	6.24	6.24
Irrigation Energy Cost	100%	Ac-In	12	2.60	31.18
Irrigation System Repairs & Maintenance		Ac-In	12	0.24	2.88
Supplies (ex. polypipe)	100%	Acre	1	3.88	3.88
Levee Gates	100%	Acre	1	0.00	0.00
Labor, Field Activities	100%	Hrs	0.826	13.45	11.11
Scouting/Consultant Fee	100%	Acre	1	7.00	7.00
Other Expenses	100%	Acre	1	0.00	0.00
Crop Insurance	100%	Acre	1	7.21	7.21
Interest, Annual Rate Applied for 6 Months	100%	Rate %	4.30	309.55	6.66
Custom Harvest	100%	Acre	0.00	0.00	0.00
Post-Harvest Expenses					
Drying	100%	Bu.	60.00	0.00	0.00
Hauling	100%	Bu.	60.00	0.27	16.20
Check Off, Boards	100%	Bu.	60.00	0.05	2.82
Cash Land Rent		Acre	1	0.00	0.00
Total Operating Expenses					\$335.23
Returns to Operating Expenses					\$228.77
CAPITAL RECOVERY & FIXED COSTS					
Machinery and Equipment		Acre	1	72.17	72.17
Irrigation Equipment		Acre	1	17.81	17.81
Farm Overhead; See Note 3		Acre	1	3.61	3.61
Total Capital Recovery & Fixed Costs					\$93.59
TOTAL SPECIFIED EXPENSES					\$428.82
NET RETURNS					\$135.18

Note 1: Yield and inputs are based on Extension research data. Enter expected farm yield and inputs.

Note 2: All price estimates do NOT include rebates, bulk deals, or discounts available through suppliers.

Note 3: Estimate based on machinery and equipment.

Table 20. 2018 Soybean Enterprise Budget, LL, Center Pivot Irrigation

CROP VALUE	Grower %	Unit	¹Yield	Price/Unit	Revenue
Crop Value, Enter Expected Farm Yield & Price	100%	Bu.	60.00	9.40	564.00
OPERATING EXPENSES		Unit	Quantity	²Price/Unit	Costs
Seed, Includes Applicable Fees	100%	Acre	1	60.00	60.00
Nitrogen 100%	100%	Lbs	0	0.00	0.00
Phosphate (P2O5) 100%	100%	Lbs	40	0.41	16.30
Potash (K2O) 100%	100%	Lbs	60	0.26	15.75
Sulfur 100%	100%	Lbs	0	0.36	0.00
Boron 100%	100%	Lbs	0.00	6.67	0.00
Other Nutrients, Including Poultry Litter	100%	Acre	1.00	0.00	0.00
Herbicide	100%	Acre	1	80.26	80.26
Insecticide	100%	Acre	1	17.23	17.23
Fungicide	100%	Acre	1	13.67	13.67
Other Chemical	100%	Acre	1	0.00	0.00
Other Chemical	100%	Acre	1	0.00	0.00
Custom Chemical & Fertilizer Applications					
Ground Application: Fertilizer & Chemical	100%	Acre	0	7.00	0.00
Air Application: Fertilizer & Chemical	100%	Acre	2	7.00	14.00
Air Application: Lbs.	100%	Lbs	0	0.070	0.00
Other Custom Hire, Air Seeding	100%	Acre	0	7.00	0.00
Machinery and Equipment					
Diesel Fuel, Pre-Post Harvest	100%	Gallons	3.565	2.20	7.84
Repairs and Maintenance, Pre-Post Harvest	100%	Acre	1	8.24	8.24
Diesel Fuel, Harvest	100%	Gallons	1.997	2.20	4.39
Repairs and Maintenance, Harvest	100%	Acre	1	6.24	6.24
Irrigation Energy Cost	100%	Ac-In	12	3.95	47.37
Irrigation System Repairs & Maintenance		Ac-In	12	0.83	10.01
Supplies (ex. polypipe)	100%	Acre	1	0.00	0.00
Levee Gates	100%	Acre	1	0.00	0.00
Labor, Field Activities	100%	Hrs	0.686	13.45	9.23
Scouting/Consultant Fee	100%	Acre	1	7.00	7.00
Other Expenses	100%	Acre	1	0.00	0.00
Crop Insurance	100%	Acre	1	7.21	7.21
Interest, Annual Rate Applied for 6 Months	100%	Rate %	4.30	324.75	6.98
Custom Harvest	100%	Acre	0.00	0.00	0.00
Post-Harvest Expenses					
Drying	100%	Bu.	60.00	0.00	0.00
Hauling	100%	Bu.	60.00	0.27	16.20
Check Off, Boards	100%	Bu.	60.00	0.05	2.82
Cash Land Rent		Acre	1	0.00	0.00
Total Operating Expenses					\$350.76
Returns to Operating Expenses					\$213.24
CAPITAL RECOVERY & FIXED COSTS					
Machinery and Equipment		Acre	1	65.66	65.66
Irrigation Equipment		Acre	1	71.58	71.58
Farm Overhead; See Note 3		Acre	1	3.28	3.28
Total Capital Recovery & Fixed Costs					\$140.53
TOTAL SPECIFIED EXPENSES					\$491.28
NET RETURNS					\$72.72

Note 1: Yield and inputs are based on Extension research data. Enter expected farm yield and inputs.

Note 2: All price estimates do NOT include rebates, bulk deals, or discounts available through suppliers.

Note 3: Estimate based on machinery and equipment.

Table 21. 2018 Soybean Enterprise Budget, LL, No Irrigation

CROP VALUE	Grower %	Unit	¹Yield	Price/Unit	Revenue
Crop Value, Enter Expected Farm Yield & Price	100%	Bu.	34.00	9.40	319.60
OPERATING EXPENSES					
		Unit	Quantity	²Price/Unit	Costs
Seed, Includes Applicable Fees	100%	Acre	1	60.00	60.00
Nitrogen 100%	100%	Lbs	0	0.00	0.00
Phosphate (P2O5) 100%	100%	Lbs	40	0.41	16.30
Potash (K2O) 100%	100%	Lbs	60	0.26	15.75
Sulfur 100%	100%	Lbs	0	0.36	0.00
Boron 100%	100%	Lbs	0.00	6.67	0.00
Other Nutrients, Including Poultry Litter	100%	Acre	1.00	0.00	0.00
Herbicide	100%	Acre	1	80.26	80.26
Insecticide	100%	Acre	1	17.23	17.23
Fungicide	100%	Acre	1	13.67	13.67
Other Chemical	100%	Acre	1	0.00	0.00
Other Chemical	100%	Acre	1	0.00	0.00
Custom Chemical & Fertilizer Applications					
Ground Application: Fertilizer & Chemical	100%	Acre	0	7.00	0.00
Air Application: Fertilizer & Chemical	100%	Acre	2	7.00	14.00
Air Application: Lbs.	100%	Lbs	0	0.070	0.00
Other Custom Hire, Air Seeding	100%	Acre	0	7.00	0.00
Machinery and Equipment					
Diesel Fuel, Pre-Post Harvest	100%	Gallons	3.565	2.20	7.84
Repairs and Maintenance, Pre-Post Harvest	100%	Acre	1	8.24	8.24
Diesel Fuel, Harvest	100%	Gallons	1.997	2.20	4.39
Repairs and Maintenance, Harvest	100%	Acre	1	6.24	6.24
Irrigation Energy Cost	100%	Ac-In	0	0.00	0.00
Irrigation System Repairs & Maintenance		Ac-In	0	0.00	0.00
Supplies (ex. polypipe)	100%	Acre	1	0.00	0.00
Levee Gates	100%	Acre	1	0.00	0.00
Labor, Field Activities	100%	Hrs	0.590	13.45	7.94
Scouting/Consultant Fee	100%	Acre	1	7.00	7.00
Other Expenses	100%	Acre	1	0.00	0.00
Crop Insurance	100%	Acre	1	7.21	7.21
Interest, Annual Rate Applied for 6 Months	100%	Rate %	4.30	266.08	5.72
Custom Harvest	100%	Acre	0.00	0.00	0.00
Post-Harvest Expenses					
Drying	100%	Bu.	34.00	0.00	0.00
Hauling	100%	Bu.	34.00	0.27	9.18
Check Off, Boards	100%	Bu.	34.00	0.05	1.60
Cash Land Rent		Acre	1	0.00	0.00
Total Operating Expenses					\$282.58
Returns to Operating Expenses					\$37.02
CAPITAL RECOVERY & FIXED COSTS					
Machinery and Equipment		Acre	1	65.66	65.66
Irrigation Equipment		Acre	1	0.00	0.00
Farm Overhead; See Note 3		Acre	1	3.28	3.28
Total Capital Recovery & Fixed Costs					\$68.94
TOTAL SPECIFIED EXPENSES					\$351.52
NET RETURNS					-\$31.92

Note 1: Yield and inputs are based on Extension research data. Enter expected farm yield and inputs.

Note 2: All price estimates do NOT include rebates, bulk deals, or discounts available through suppliers.

Note 3: Estimate based on machinery and equipment.

Table 22. 2018 Soybean Enterprise Budget, LL, Flood Irrigation

CROP VALUE	Grower %	Unit	¹Yield	Price/Unit	Revenue
Crop Value, Enter Expected Farm Yield & Price	100%	Bu.	60.00	9.40	564.00
OPERATING EXPENSES					
		Unit	Quantity	²Price/Unit	Costs
Seed, Includes Applicable Fees	100%	Acre	1	60.00	60.00
Nitrogen 100%	100%	Lbs	0	0.00	0.00
Phosphate (P2O5) 100%	100%	Lbs	40	0.41	16.30
Potash (K2O) 100%	100%	Lbs	60	0.26	15.75
Sulfur 100%	100%	Lbs	0	0.36	0.00
Boron 100%	100%	Lbs	0.00	6.67	0.00
Other Nutrients, Including Poultry Litter	100%	Acre	1.00	0.00	0.00
Herbicide	100%	Acre	1	80.26	80.26
Insecticide	100%	Acre	1	17.23	17.23
Fungicide	100%	Acre	1	13.67	13.67
Other Chemical	100%	Acre	1	0.00	0.00
Other Chemical	100%	Acre	1	0.00	0.00
Custom Chemical & Fertilizer Applications					
Ground Application: Fertilizer & Chemical	100%	Acre	0	7.00	0.00
Air Application: Fertilizer & Chemical	100%	Acre	2	7.00	14.00
Air Application: Lbs.	100%	Lbs	0	0.070	0.00
Other Custom Hire, Air Seeding	100%	Acre	0	7.00	0.00
Machinery and Equipment					
Diesel Fuel, Pre-Post Harvest	100%	Gallons	4.093	2.20	9.01
Repairs and Maintenance, Pre-Post Harvest	100%	Acre	1	7.80	7.80
Diesel Fuel, Harvest	100%	Gallons	1.997	2.20	4.39
Repairs and Maintenance, Harvest	100%	Acre	1	6.24	6.24
Irrigation Energy Cost	100%	Ac-In	12	2.60	31.18
Irrigation System Repairs & Maintenance		Ac-In	12	0.24	2.88
Supplies (ex. polypipe)	100%	Acre	1	0.00	0.00
Levee Gates	100%	Acre	1	0.70	0.70
Labor, Field Activities	100%	Hrs	0.795	13.45	10.69
Scouting/Consultant Fee	100%	Acre	1	7.00	7.00
Other Expenses	100%	Acre	1	0.00	0.00
Crop Insurance	100%	Acre	1	7.21	7.21
Interest, Annual Rate Applied for 6 Months	100%	Rate %	4.30	304.32	6.54
Custom Harvest	100%	Acre	0.00	0.00	0.00
Post-Harvest Expenses					
Drying	100%	Bu.	60.00	0.00	0.00
Hauling	100%	Bu.	60.00	0.27	16.20
Check Off, Boards	100%	Bu.	60.00	0.05	2.82
Cash Land Rent		Acre	1	0.00	0.00
Total Operating Expenses					\$329.89
Returns to Operating Expenses					\$234.11
CAPITAL RECOVERY & FIXED COSTS					
Machinery and Equipment		Acre	1	66.51	66.51
Irrigation Equipment		Acre	1	17.81	17.81
Farm Overhead; See Note 3		Acre	1	3.33	3.33
Total Capital Recovery & Fixed Costs					\$87.65
TOTAL SPECIFIED EXPENSES					\$417.53
NET RETURNS					\$146.47

Note 1: Yield and inputs are based on Extension research data. Enter expected farm yield and inputs.

Note 2: All price estimates do NOT include rebates, bulk deals, or discounts available through suppliers.

Note 3: Estimate based on machinery and equipment.

Table 23. 2018 Soybean Enterprise Budget, Conventional, Furrow Irrigation

CROP VALUE	Grower %	Unit	¹Yield	Price/Unit	Revenue
Crop Value, Enter Expected Farm Yield & Price	100%	Bu.	60.00	9.40	564.00
OPERATING EXPENSES					
		Unit	Quantity	²Price/Unit	Costs
Seed, Includes Applicable Fees	100%	Acre	1	35.00	35.00
Nitrogen 100%	100%	Lbs	0	0.00	0.00
Phosphate (P2O5) 100%	100%	Lbs	40	0.41	16.30
Potash (K2O) 100%	100%	Lbs	60	0.26	15.75
Sulfur 100%	100%	Lbs	0	0.36	0.00
Boron 100%	100%	Lbs	0.00	6.67	0.00
Other Nutrients, Including Poultry Litter	100%	Acre	1.00	0.00	0.00
Herbicide	100%	Acre	1	71.62	71.62
Insecticide	100%	Acre	1	17.23	17.23
Fungicide	100%	Acre	1	13.67	13.67
Other Chemical	100%	Acre	1	0.00	0.00
Other Chemical	100%	Acre	1	0.00	0.00
Custom Chemical & Fertilizer Applications					
Ground Application: Fertilizer & Chemical	100%	Acre	0	7.00	0.00
Air Application: Fertilizer & Chemical	100%	Acre	2	7.00	14.00
Air Application: Lbs.	100%	Lbs	0	0.070	0.00
Other Custom Hire, Air Seeding	100%	Acre	0	7.00	0.00
Machinery and Equipment					
Diesel Fuel, Pre-Post Harvest	100%	Gallons	4.342	2.20	9.55
Repairs and Maintenance, Pre-Post Harvest	100%	Acre	1	8.89	8.89
Diesel Fuel, Harvest	100%	Gallons	1.997	2.20	4.39
Repairs and Maintenance, Harvest	100%	Acre	1	6.24	6.24
Irrigation Energy Cost	100%	Ac-In	12	2.60	31.18
Irrigation System Repairs & Maintenance		Ac-In	12	0.24	2.88
Supplies (ex. polypipe)	100%	Acre	1	3.88	3.88
Levee Gates	100%	Acre	1	0.00	0.00
Labor, Field Activities	100%	Hrs	0.826	13.45	11.11
Scouting/Consultant Fee	100%	Acre	1	7.00	7.00
Other Expenses	100%	Acre	1	0.00	0.00
Crop Insurance	100%	Acre	1	7.21	7.21
Interest, Annual Rate Applied for 6 Months	100%	Rate %	4.30	275.91	5.93
Custom Harvest	100%	Acre	0.00	0.00	0.00
Post-Harvest Expenses					
Drying	100%	Bu.	60.00	0.00	0.00
Hauling	100%	Bu.	60.00	0.27	16.20
Check Off, Boards	100%	Bu.	60.00	0.05	2.82
Cash Land Rent		Acre	1	0.00	0.00
Total Operating Expenses					\$300.86
Returns to Operating Expenses					\$263.14
CAPITAL RECOVERY & FIXED COSTS					
Machinery and Equipment		Acre	1	72.17	72.17
Irrigation Equipment		Acre	1	17.81	17.81
Farm Overhead; See Note 3		Acre	1	3.61	3.61
Total Capital Recovery & Fixed Costs					\$93.59
TOTAL SPECIFIED EXPENSES					\$394.46
NET RETURNS					\$169.54

Note 1: Yield and inputs are based on Extension research data. Enter expected farm yield and inputs.

Note 2: All price estimates do NOT include rebates, bulk deals, or discounts available through suppliers.

Note 3: Estimate based on machinery and equipment.

Table 24. 2018 Soybean Enterprise Budget, Conventional, Center Pivot Irrigation

CROP VALUE	Grower %	Unit	¹Yield	Price/Unit	Revenue
Crop Value, Enter Expected Farm Yield & Price	100%	Bu.	60.00	9.40	564.00
OPERATING EXPENSES					
		Unit	Quantity	²Price/Unit	Costs
Seed, Includes Applicable Fees	100%	Acre	1	35.00	35.00
Nitrogen 100%	100%	Lbs	0	0.00	0.00
Phosphate (P2O5) 100%	100%	Lbs	40	0.41	16.30
Potash (K2O) 100%	100%	Lbs	60	0.26	15.75
Sulfur 100%	100%	Lbs	0	0.36	0.00
Boron 100%	100%	Lbs	0.00	6.67	0.00
Other Nutrients, Including Poultry Litter	100%	Acre	1.00	0.00	0.00
Herbicide	100%	Acre	1	61.15	61.15
Insecticide	100%	Acre	1	17.23	17.23
Fungicide	100%	Acre	1	9.57	9.57
Other Chemical	100%	Acre	1	0.00	0.00
Other Chemical	100%	Acre	1	0.00	0.00
Custom Chemical & Fertilizer Applications					
Ground Application: Fertilizer & Chemical	100%	Acre	0	7.00	0.00
Air Application: Fertilizer & Chemical	100%	Acre	2	7.00	14.00
Air Application: Lbs.	100%	Lbs	0	0.070	0.00
Other Custom Hire, Air Seeding	100%	Acre	0	7.00	0.00
Machinery and Equipment					
Diesel Fuel, Pre-Post Harvest	100%	Gallons	3.565	2.20	7.84
Repairs and Maintenance, Pre-Post Harvest	100%	Acre	1	8.24	8.24
Diesel Fuel, Harvest	100%	Gallons	1.997	2.20	4.39
Repairs and Maintenance, Harvest	100%	Acre	1	6.24	6.24
Irrigation Energy Cost	100%	Ac-In	12	3.95	47.37
Irrigation System Repairs & Maintenance		Ac-In	12	0.83	10.01
Supplies (ex. polypipe)	100%	Acre	1	0.00	0.00
Levee Gates	100%	Acre	1	0.00	0.00
Labor, Field Activities	100%	Hrs	0.686	13.45	9.23
Scouting/Consultant Fee	100%	Acre	1	7.00	7.00
Other Expenses	100%	Acre	1	0.00	0.00
Crop Insurance	100%	Acre	1	7.21	7.21
Interest, Annual Rate Applied for 6 Months	100%	Rate %	4.30	276.54	5.95
Custom Harvest	100%	Acre	0.00	0.00	0.00
Post-Harvest Expenses					
Drying	100%	Bu.	60.00	0.00	0.00
Hauling	100%	Bu.	60.00	0.27	16.20
Check Off, Boards	100%	Bu.	60.00	0.05	2.82
Cash Land Rent		Acre	1	0.00	0.00
Total Operating Expenses					\$301.51
Returns to Operating Expenses					\$262.49
CAPITAL RECOVERY & FIXED COSTS					
Machinery and Equipment		Acre	1	65.66	65.66
Irrigation Equipment		Acre	1	71.58	71.58
Farm Overhead; See Note 3		Acre	1	3.28	3.28
Total Capital Recovery & Fixed Costs					\$140.53
TOTAL SPECIFIED EXPENSES					\$442.04
NET RETURNS					\$121.96

Note 1: Yield and inputs are based on Extension research data. Enter expected farm yield and inputs.

Note 2: All price estimates do NOT include rebates, bulk deals, or discounts available through suppliers.

Note 3: Estimate based on machinery and equipment.

Table 25. 2018 Soybean Enterprise Budget, Conventional, No Irrigation

CROP VALUE	Grower %	Unit	¹Yield	Price/Unit	Revenue
Crop Value, Enter Expected Farm Yield & Price	100%	Bu.	34.00	9.40	319.60
OPERATING EXPENSES					
		Unit	Quantity	²Price/Unit	Costs
Seed, Includes Applicable Fees	100%	Acre	1	35.00	35.00
Nitrogen 100%	100%	Lbs	0	0.00	0.00
Phosphate (P2O5) 100%	100%	Lbs	40	0.41	16.30
Potash (K2O) 100%	100%	Lbs	60	0.26	15.75
Sulfur 100%	100%	Lbs	0	0.36	0.00
Boron 100%	100%	Lbs	0.00	6.67	0.00
Other Nutrients, Including Poultry Litter	100%	Acre	1.00	0.00	0.00
Herbicide	100%	Acre	1	54.28	54.28
Insecticide	100%	Acre	1	17.23	17.23
Fungicide	100%	Acre	1	9.57	9.57
Other Chemical	100%	Acre	1	0.00	0.00
Other Chemical	100%	Acre	1	0.00	0.00
Custom Chemical & Fertilizer Applications					
Ground Application: Fertilizer & Chemical	100%	Acre	0	7.00	0.00
Air Application: Fertilizer & Chemical	100%	Acre	2	7.00	14.00
Air Application: Lbs.	100%	Lbs	0	0.070	0.00
Other Custom Hire, Air Seeding	100%	Acre	0	7.00	0.00
Machinery and Equipment					
Diesel Fuel, Pre-Post Harvest	100%	Gallons	3.565	2.20	7.84
Repairs and Maintenance, Pre-Post Harvest	100%	Acre	1	8.24	8.24
Diesel Fuel, Harvest	100%	Gallons	1.997	2.20	4.39
Repairs and Maintenance, Harvest	100%	Acre	1	6.24	6.24
Irrigation Energy Cost	100%	Ac-In	0	0.00	0.00
Irrigation System Repairs & Maintenance		Ac-In	0	0.00	0.00
Supplies (ex. polypipe)	100%	Acre	1	0.00	0.00
Levee Gates	100%	Acre	1	0.00	0.00
Labor, Field Activities	100%	Hrs	0.590	13.45	7.94
Scouting/Consultant Fee	100%	Acre	1	7.00	7.00
Other Expenses	100%	Acre	1	0.00	0.00
Crop Insurance	100%	Acre	1	7.21	7.21
Interest, Annual Rate Applied for 6 Months	100%	Rate %	4.30	211.00	4.54
Custom Harvest	100%	Acre	0.00	0.00	0.00
Post-Harvest Expenses					
Drying	100%	Bu.	34.00	0.00	0.00
Hauling	100%	Bu.	34.00	0.27	9.18
Check Off, Boards	100%	Bu.	34.00	0.05	1.60
Cash Land Rent		Acre	1	0.00	0.00
Total Operating Expenses					\$226.31
Returns to Operating Expenses					\$93.29
CAPITAL RECOVERY & FIXED COSTS					
Machinery and Equipment		Acre	1	65.66	65.66
Irrigation Equipment		Acre	1	0.00	0.00
Farm Overhead; See Note 3		Acre	1	3.28	3.28
Total Capital Recovery & Fixed Costs					\$68.94
TOTAL SPECIFIED EXPENSES					\$295.25
NET RETURNS					\$24.35

Note 1: Yield and inputs are based on Extension research data. Enter expected farm yield and inputs.

Note 2: All price estimates do NOT include rebates, bulk deals, or discounts available through suppliers.

Note 3: Estimate based on machinery and equipment.

Table 26. 2018 Soybean Enterprise Budget, Conventional, Flood Irrigation

CROP VALUE	Grower %	Unit	¹Yield	Price/Unit	Revenue
Crop Value, Enter Expected Farm Yield & Price	100%	Bu.	60.00	9.40	564.00
OPERATING EXPENSES					
		Unit	Quantity	²Price/Unit	Costs
Seed, Includes Applicable Fees	100%	Acre	1	35.00	35.00
Nitrogen 100%	100%	Lbs	0	0.00	0.00
Phosphate (P2O5) 100%	100%	Lbs	40	0.41	16.30
Potash (K2O) 100%	100%	Lbs	60	0.26	15.75
Sulfur 100%	100%	Lbs	0	0.36	0.00
Boron 100%	100%	Lbs	0.00	6.67	0.00
Other Nutrients, Including Poultry Litter	100%	Acre	1.00	0.00	0.00
Herbicide	100%	Acre	1	54.28	54.28
Insecticide	100%	Acre	1	17.23	17.23
Fungicide	100%	Acre	1	9.57	9.57
Other Chemical	100%	Acre	1	0.00	0.00
Other Chemical	100%	Acre	1	0.00	0.00
Custom Chemical & Fertilizer Applications					
Ground Application: Fertilizer & Chemical	100%	Acre	0	7.00	0.00
Air Application: Fertilizer & Chemical	100%	Acre	2	7.00	14.00
Air Application: Lbs.	100%	Lbs	0	0.070	0.00
Other Custom Hire, Air Seeding	100%	Acre	0	7.00	0.00
Machinery and Equipment					
Diesel Fuel, Pre-Post Harvest	100%	Gallons	4.093	2.20	9.01
Repairs and Maintenance, Pre-Post Harvest	100%	Acre	1	7.80	7.80
Diesel Fuel, Harvest	100%	Gallons	1.997	2.20	4.39
Repairs and Maintenance, Harvest	100%	Acre	1	6.24	6.24
Irrigation Energy Cost	100%	Ac-In	12	2.60	31.18
Irrigation System Repairs & Maintenance		Ac-In	12	0.24	2.88
Supplies (ex. polypipe)	100%	Acre	1	0.00	0.00
Levee Gates	100%	Acre	1	0.70	0.70
Labor, Field Activities	100%	Hrs	0.795	13.45	10.69
Scouting/Consultant Fee	100%	Acre	1	7.00	7.00
Other Expenses	100%	Acre	1	0.00	0.00
Crop Insurance	100%	Acre	1	7.21	7.21
Interest, Annual Rate Applied for 6 Months	100%	Rate %	4.30	249.24	5.36
Custom Harvest	100%	Acre	0.00	0.00	0.00
Post-Harvest Expenses					
Drying	100%	Bu.	60.00	0.00	0.00
Hauling	100%	Bu.	60.00	0.27	16.20
Check Off, Boards	100%	Bu.	60.00	0.05	2.82
Cash Land Rent		Acre	1	0.00	0.00
Total Operating Expenses					\$273.62
Returns to Operating Expenses					\$290.38
CAPITAL RECOVERY & FIXED COSTS					
Machinery and Equipment		Acre	1	66.51	66.51
Irrigation Equipment		Acre	1	17.81	17.81
Farm Overhead; See Note 3		Acre	1	3.33	3.33
Total Capital Recovery & Fixed Costs					\$87.65
TOTAL SPECIFIED EXPENSES					\$361.26
NET RETURNS					\$202.74

Note 1: Yield and inputs are based on Extension research data. Enter expected farm yield and inputs.

Note 2: All price estimates do NOT include rebates, bulk deals, or discounts available through suppliers.

Note 3: Estimate based on machinery and equipment.

Table 30. 2018 Wheat Enterprise Budget

CROP VALUE	Grower %	Unit	¹Yield	Price/Unit	Revenue
Crop Value, Enter Expected Farm Yield & Price	100%	Bu.	70.00	4.90	343.00
OPERATING EXPENSES					
		Unit	Quantity	²Price/Unit	Costs
Seed, Includes Applicable Fees	100%	Acre	1	29.00	29.00
Nitrogen 100%	100%	Lbs	121	0.35	42.05
Phosphate (P2O5) 100%	100%	Lbs	40	0.41	16.30
Potash (K2O) 100%	100%	Lbs	80	0.26	21.00
Sulfur 100%	100%	Lbs	12	0.36	4.27
Boron 100%	100%	Lbs	0.00	6.67	0.00
Other Nutrients, Including Poultry Litter	100%	Acre	1.00	0.00	0.00
Herbicide	100%	Acre	1	28.05	28.05
Insecticide	100%	Acre	1	0.00	0.00
Fungicide	100%	Acre	1	13.67	13.67
Other Chemical	100%	Acre	1	0.00	0.00
Other Chemical	100%	Acre	1	0.00	0.00
Custom Chemical & Fertilizer Applications					
Ground Application: Fertilizer & Chemical	100%	Acre	1	7.00	7.00
Air Application: Fertilizer & Chemical	100%	Acre	1	7.00	7.00
Air Application: Lbs.	100%	Lbs	100	0.070	7.00
Other Custom Hire, Air Seeding	100%	Acre	0	7.00	0.00
Machinery and Equipment					
Diesel Fuel, Pre-Post Harvest	100%	Gallons	3.027	2.20	6.66
Repairs and Maintenance, Pre-Post Harvest	100%	Acre	1	5.92	5.92
Diesel Fuel, Harvest	100%	Gallons	2.568	2.20	5.65
Repairs and Maintenance, Harvest	100%	Acre	1	7.99	7.99
Irrigation Energy Cost	100%	Ac-In	0	0.00	0.00
Irrigation System Repairs & Maintenance		Ac-In	0	0.00	0.00
Supplies (ex. polypipe)	100%	Acre	1	0.00	0.00
Other Inputs	100%	Acre	1	0.00	0.00
Labor, Field Activities	100%	Hrs	0.614	13.45	8.25
Scouting/Consultant Fee	100%	Acre	1	0.00	0.00
Other Expenses	100%	Acre	1	0.00	0.00
Crop Insurance	100%	Acre	1	7.92	7.92
Interest, Annual Rate Applied for 6 Months	100%	Rate %	4.30	217.73	4.68
Custom Harvest	100%	Acre	0.00	0.00	0.00
Post-Harvest Expenses					
Drying	100%	Bu.	70.00	0.00	0.00
Hauling	100%	Bu.	70.00	0.27	18.90
Check Off, Boards	100%	Bu.	70.00	0.01	0.70
Cash Land Rent		Acre	1	0.00	0.00
Total Operating Expenses					\$242.01
Returns to Operating Expenses					\$100.99
CAPITAL RECOVERY & FIXED COSTS					
Machinery and Equipment		Acre	1	57.56	57.56
Irrigation Equipment		Acre	1	0.00	0.00
Farm Overhead; See Note 3		Acre	1	2.88	2.88
Total Capital Recovery & Fixed Costs					\$60.44
TOTAL SPECIFIED EXPENSES					\$302.44
NET RETURNS					\$40.56

Note 1: Yield and inputs are based on Extension research data. Enter expected farm yield and inputs.

Note 2: All price estimates do NOT include rebates, bulk deals, or discounts available through suppliers.

Note 3: Estimate based on machinery and equipment.

Appendixes

Field Activities for Crop Enterprise Budgets

Table A-15. Soybean Field Activities, RR, Furrow Irrigation

Field Trip	Width	Activity	RR
Disk	32 ft.	Fall Tillage	
Hipper	12 Row	Fall Tillage	
Self-Propelled Sprayer	90 ft.	Herbicide (Burndown)	32 oz Glyphosate, 32 oz 2,4-D
Hipper	12 Row	Tillage	
Fertilizer Spreader	30 ft.	Fertilizer	N,P,K (0-40-60)
Do All (Seedbed Finisher)	12 Row	Tillage	
Planter (Twin Row)	12 Row	Plant	150,000 seed
Self-Propelled Sprayer	90 ft.	Herbicide	14 oz Authority MTZ
Self-Propelled Sprayer	90 ft.	Herbicide	32 oz Glyphosate, 3.25 oz Zidua SC
Irrigation Sweep	12 Row	Tillage	
Irrigation Polypipe Spool		Total Season Activities	
Self-Propelled Sprayer	90 ft.	Herbicide	32 oz Glyphosate, 1.33 pt s-Metolachlor
Custom Aerial Application		Insecticide	9 oz Besiege
Custom Aerial Application		Fungicide	10 oz Quadris Top
Combine	325 hp	Harvest	
Head	30 ft Flex	Harvest	
Grain Wagon (700 bu)		Harvest	

Table A-16. Soybean Field Activities, RR, Center Pivot Irrigation

Field Trip	Width	Activity	RR
Disk	32 ft.	Fall Tillage	
Hipper	12 Row	Fall Tillage	
Self-Propelled Sprayer	90 ft.	Herbicide (Burndown)	32 oz Glyphosate, 32 oz 2,4-D
Hipper	12 Row	Tillage	
Fertilizer Spreader	30 ft.	Fertilizer	N,P,K (0-40-60)
Do All (Seedbed Finisher)	12 Row	Tillage	
Planter (Twin Row)	12 Row	Plant	150,000 seed
Self-Propelled Sprayer	90 ft.	Herbicide	14 oz Authority MTZ
Self-Propelled Sprayer	90 ft.	Herbicide	32 oz Glyphosate, 3.25 oz Zidua SC
Self-Propelled Sprayer	90 ft.	Herbicide	32 oz Glyphosate, 1.33 pt s-Metolachlor
Custom Aerial Application		Insecticide	9 oz Besiege
Custom Aerial Application		Fungicide	10 oz Quadris Top
Combine	325 hp	Harvest	
Head	30 ft Flex	Harvest	
Grain Wagon (700 bu)		Harvest	

Table A-17. Soybean Field Activities, RR, No Irrigation

Field Trip	Width	Activity	RR
Disk	32 ft.	Fall Tillage	
Hipper	12 Row	Fall Tillage	
Self-Propelled Sprayer	90 ft.	Herbicide (Burndown)	32 oz Glyphosate, 32 oz 2,4-D
Hipper	12 Row	Tillage	
Fertilizer Spreader	30 ft.	Fertilizer	N,P,K (0-40-60)
Do All (Seedbed Finisher)	12 Row	Tillage	
Planter (Twin Row)	12 Row	Plant	150,000 seed
Self-Propelled Sprayer	90 ft.	Herbicide	14 oz Authority MTZ
Self-Propelled Sprayer	90 ft.	Herbicide	32 oz Glyphosate, 3.25 oz Zidua SC
Self-Propelled Sprayer	90 ft.	Herbicide	32 oz Glyphosate, 1.33 pt s-Metolachlor
Custom Aerial Application		Insecticide	9 oz Besiege
Custom Aerial Application		Fungicide	10 oz Quadris Top
Combine	325 hp	Harvest	
Head	30 ft Flex	Harvest	
Grain Wagon (700 bu)		Harvest	

Table A-18. Soybean Field Activities, RR, Flood Irrigation

Field Trip	Width	Activity	RR
Disk	32 ft.	Fall Tillage	
Field Cultivator	36 ft.	Fall Tillage	
Ditcher (Fall)		Fall Tillage	
Self-Propelled Sprayer	90 ft.	Herbicide (Burndown)	32 oz Glyphosate, 32 oz 2,4-D
Field Cultivator	36 ft.	Tillage	
Land Plane	17 ft.	Tillage	
Fertilizer Spreader	30 ft.	Fertilizer	N,P,K (0-40-60)
Grain Drill	30 ft.	Plant	150,000 seed
Self-Propelled Sprayer	90 ft.	Herbicide	14 oz Authority MTZ
Self-Propelled Sprayer	90 ft.	Herbicide	32 oz Glyphosate, 3.25 oz Zidua SC
Make Levees		One Round-Trip	
Remove Levees			
Self-Propelled Sprayer	90 ft.	Herbicide	32 oz Glyphosate, 1.33 pt s-Metolachlor
Make Levees		One Round-Trip	
Custom Aerial Application		Insecticide	9 oz Besiege
Custom Aerial Application		Fungicide	10 oz Quadris Top
Remove Levees			
Combine	325 hp	Harvest	
Head	30 ft Flex	Harvest	
Grain Wagon (700 bu)		Harvest	

Table A-19. Soybean Field Activities, LL, Furrow Irrigation

Field Trip	Width	Activity	LL
Disk	32 ft.	Fall Tillage	
Hipper	12 Row	Fall Tillage	
Self-Propelled Sprayer	90 ft.	Herbicide (Burndown)	32 oz Glyphosate, 32 oz 2,4-D
Hipper	12 Row	Tillage	
Fertilizer Spreader	30 ft.	Fertilizer	N,P,K (0-40-60)
Do All (Seedbed Finisher)	12 Row	Tillage	
Planter (Twin Row)	12 Row	Plant	150,000 seed
Self-Propelled Sprayer	90 ft.	Herbicide	14 oz Authority MTZ
Self-Propelled Sprayer	90 ft.	Herbicide	29 oz Glufosinate, 3.25 oz Zidua SC
Irrigation Sweep	12 Row	Tillage	
Irrigation Polypipe Spool		Total Season Activities	
Self-Propelled Sprayer	90 ft.	Herbicide	29 oz Glufosinate
Custom Aerial Application		Insecticide	9 oz Besiege
Custom Aerial Application		Fungicide	10 oz Quadris Top
Combine	325 hp	Harvest	
Head	30 ft Flex	Harvest	
Grain Wagon (700 bu)		Harvest	

Table A-20. Soybean Field Activities, LL, Center Pivot Irrigation

Field Trip	Width	Activity	LL
Disk	32 ft.	Fall Tillage	
Hipper	12 Row	Fall Tillage	
Self-Propelled Sprayer	90 ft.	Herbicide (Burndown)	32 oz Glyphosate, 32 oz 2,4-D
Hipper	12 Row	Tillage	
Fertilizer Spreader	30 ft.	Fertilizer	N,P,K (0-40-60)
Do All (Seedbed Finisher)	12 Row	Tillage	
Planter (Twin Row)	12 Row	Plant	150,000 seed
Self-Propelled Sprayer	90 ft.	Herbicide	14 oz Authority MTZ
Self-Propelled Sprayer	90 ft.	Herbicide	29 oz Glufosinate, 3.25 oz Zidua SC
Self-Propelled Sprayer	90 ft.	Herbicide	29 oz Glufosinate
Custom Aerial Application		Insecticide	9 oz Besiege
Custom Aerial Application		Fungicide	10 oz Quadris Top
Combine	325 hp	Harvest	
Head	30 ft Flex	Harvest	
Grain Wagon (700 bu)		Harvest	

Table A-21. Soybean Field Activities, LL, No Irrigation

Field Trip	Width	Activity	LL
Disk	32 ft.	Fall Tillage	
Hipper	12 Row	Fall Tillage	
Self-Propelled Sprayer	90 ft.	Herbicide (Burndown)	32 oz Glyphosate, 32 oz 2,4-D
Hipper	12 Row	Tillage	
Fertilizer Spreader	30 ft.	Fertilizer	N,P,K (0-40-60)
Do All (Seedbed Finisher)	12 Row	Tillage	
Planter (Twin Row)	12 Row	Plant	150,000 seed
Self-Propelled Sprayer	90 ft.	Herbicide	14 oz Authority MTZ
Self-Propelled Sprayer	90 ft.	Herbicide	29 oz Glufosinate, 3.25 oz Zidua SC
Self-Propelled Sprayer	90 ft.	Herbicide	29 oz Glufosinate
Custom Aerial Application		Insecticide	9 oz Besiege
Custom Aerial Application		Fungicide	10 oz Quadris Top
Combine	325 hp	Harvest	
Head	30 ft Flex	Harvest	
Grain Wagon (700 bu)		Harvest	

Table A-22. Soybean Field Activities, LL, Flood Irrigation

Field Trip	Width	Activity	LL
Disk	32 ft.	Fall Tillage	
Field Cultivator	36 ft.	Fall Tillage	
Ditcher (Fall)		Fall Tillage	
Self-Propelled Sprayer	90 ft.	Herbicide (Burndown)	32 oz Glyphosate, 32 oz 2,4-D
Field Cultivator	36 ft.	Tillage	
Land Plane	17 ft.	Tillage	
Fertilizer Spreader	30 ft.	Fertilizer	N,P,K (0-40-60)
Grain Drill	30 ft.	Plant	150,000 seed
Self-Propelled Sprayer	90 ft.	Herbicide	14 oz Authority MTZ
Self-Propelled Sprayer	90 ft.	Herbicide	29 oz Glufosinate, 3.25 oz Zidua SC
Make Levees		One Round-Trip	
Remove Levees			
Self-Propelled Sprayer	90 ft.	Herbicide	29 oz Glufosinate
Make Levees		One Round-Trip	
Custom Aerial Application		Insecticide	9 oz Besiege
Custom Aerial Application		Fungicide	10 oz Quadris Top
Remove Levees			
Combine	325 hp	Harvest	
Head	30 ft Flex	Harvest	
Grain Wagon (700 bu)		Harvest	

Table A-23. Soybean Field Activities, Conventional, Furrow Irrigation

Field Trip	Width	Activity	Conventional
Disk	32 ft.	Fall Tillage	
Hipper	12 Row	Fall Tillage	
Self-Propelled Sprayer	90 ft.	Herbicide (Burndown)	32 oz Glyphosate, 32 oz 2,4-D
Hipper	12 Row	Tillage	
Fertilizer Spreader	30 ft.	Fertilizer	N,P,K (0-40-60)
Do All (Seedbed Finisher)	12 Row	Tillage	
Planter (Twin Row)	12 Row	Plant	150,000 seed
Self-Propelled Sprayer	90 ft.	Herbicide	14 oz Authority MTZ
Self-Propelled Sprayer	90 ft.	Herbicide	1 pt Select Max, 3.25 oz Zidua SC
Irrigation Sweep	12 Row	Tillage	
Irrigation Polypipe Spool		Total Season Activities	
Self-Propelled Sprayer	90 ft.	Herbicide	24 oz Storm
Custom Aerial Application		Insecticide	9 oz Besiege
Custom Aerial Application		Fungicide	10 oz Quadris Top
Combine	325 hp	Harvest	
Head	30 ft Flex	Harvest	
Grain Wagon (700 bu)		Harvest	

Table A-24. Soybean Field Activities, Conventional, Center Pivot Irrigation

Field Trip	Width	Activity	Conventional
Disk	32 ft.	Fall Tillage	
Hipper	12 Row	Fall Tillage	
Self-Propelled Sprayer	90 ft.	Herbicide (Burndown)	32 oz Glyphosate, 32 oz 2,4-D
Hipper	12 Row	Tillage	
Fertilizer Spreader	30 ft.	Fertilizer	N,P,K (0-40-60)
Do All (Seedbed Finisher)	12 Row	Tillage	
Planter (Twin Row)	12 Row	Plant	150,000 seed
Self-Propelled Sprayer	90 ft.	Herbicide	14 oz Authority MTZ
Self-Propelled Sprayer	90 ft.	Herbicide	1 pt Select Max, 3.25 oz Zidua SC
Self-Propelled Sprayer	90 ft.	Herbicide	24 oz Storm
Custom Aerial Application		Insecticide	9 oz Besiege
Custom Aerial Application		Fungicide	10 oz Quadris Top
Combine	325 hp	Harvest	
Head	30 ft Flex	Harvest	
Grain Wagon (700 bu)		Harvest	

Table A-25. Soybean Field Activities, Conventional, No Irrigation

Field Trip	Width	Activity	Conventional
Disk	32 ft.	Fall Tillage	
Hipper	12 Row	Fall Tillage	
Self-Propelled Sprayer	90 ft.	Herbicide (Burndown)	32 oz Glyphosate, 32 oz 2,4-D
Hipper	12 Row	Tillage	
Fertilizer Spreader	30 ft.	Fertilizer	N,P,K (0-40-60)
Do All (Seedbed Finisher)	12 Row	Tillage	
Planter (Twin Row)	12 Row	Plant	150,000 seed
Self-Propelled Sprayer	90 ft.	Herbicide	14 oz Authority MTZ
Self-Propelled Sprayer	90 ft.	Herbicide	1 pt Select Max, 3.25 oz Zidua SC
Self-Propelled Sprayer	90 ft.	Herbicide	24 oz Storm
Custom Aerial Application		Insecticide	9 oz Besiege
Custom Aerial Application		Fungicide	10 oz Quadris Top
Combine	325 hp	Harvest	
Head	30 ft Flex	Harvest	
Grain Wagon (700 bu)		Harvest	

Table A-26. Soybean Field Activities, Conventional, Flood Irrigation

Field Trip	Width	Activity	Conventional
Disk	32 ft.	Fall Tillage	
Field Cultivator	36 ft.	Fall Tillage	
Ditcher (Fall)		Fall Tillage	
Self-Propelled Sprayer	90 ft.	Herbicide (Burndown)	32 oz Glyphosate, 32 oz 2,4-D
Field Cultivator	36 ft.	Tillage	
Land Plane	17 ft.	Tillage	
Fertilizer Spreader	30 ft.	Fertilizer	N,P,K (0-40-60)
Grain Drill	30 ft.	Plant	150,000 seed
Self-Propelled Sprayer	90 ft.	Herbicide	14 oz Authority MTZ
Self-Propelled Sprayer	90 ft.	Herbicide	1 pt Select Max, 3.25 oz Zidua SC
Make Levees		One Round-Trip	
Remove Levees			
Self-Propelled Sprayer	90 ft.	Herbicide	24 oz Storm
Make Levees		One Round-Trip	
Custom Aerial Application		Insecticide	9 oz Besiege
Custom Aerial Application		Fungicide	10 oz Quadris Top
Remove Levees			
Combine	325 hp	Harvest	
Head	30 ft Flex	Harvest	
Grain Wagon (700 bu)		Harvest	

Table A-30. Wheat Field Activities

Field Trip	Width	Activity	
Disk	32 ft.	Tillage	
Fertilizer Spreader	30 ft.	Fertilizer	P,K (0-40-80)
Field Cultivator	32 ft.	Tillage	
Land Plane	17 ft.	Tillage	
Ditcher		Tillage	
Grain Drill	30 ft.	Plant	100 lbs per acre
Fertilizer Spreader	30 ft.	Fertilizer	140 lbs Urea (46-0-0), 50 lbs Ammonia Sulfate (21-0-0-24)
Ground Application		Herbicide	16.4 oz Axial, 0.9 oz Harmony Extra XP, 3.2 oz surfactant
Custom Aerial Application		Fertilizer	100 lbs Urea (46-0-0)
Custom Aerial Application		Fungicide	14 oz Quilt
Combine	325 hp	Harvest	
Head	30 ft Rigid	Harvest	
Grain Wagon (700 bu)		Harvest	

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