

Southeast Missouri Peanut Planning Budget

Using this planning budget, peanut producers may estimate their costs and returns for 2025. Table 1 presents estimates for GMO furrow-irrigated peanut production in southeast Missouri. Assumptions were based on price forecasts as of October 2024. Detailed prices and practices are summarized in Tables 2 and 3. The production practices used to develop these cost estimates are common for southeast Missouri farms. Use the “Your estimate” column to plan your operation’s costs and returns for 2025.

Table 1. Southeast Missouri peanut (furrow-irrigated) planning budget for 2025.

	Dollars per acre ¹	Your estimate
Income		
Peanut sales	1,150.00	
Government payments	20.00	
Less hauling, cleaning and drying	-57.50	
Total income	1,112.50	
Operating costs		
Seed	121.88	
Fertilizer and soil amendments	90.50	
Crop protection chemicals	148.00	
Irrigation ²	104.09	
Crop supplies, storage, and marketing	8.00	
Crop consulting and insurance	40.00	
Custom hire and rental	15.02	
Operator labor and management	60.31	
Machinery fuel	40.41	
Machinery repairs and maintenance	55.10	
Operating interest	26.48	
Total operating costs	709.78	
Ownership costs		
Farm business overhead	11.13	
Machinery ownership	153.58	
Real estate charge	225.00	
Total ownership costs	389.70	
Total costs	1,099.49	
Income over operating costs	402.72	
Income over total costs	13.01	
Return to land and management	271.39	
	Operating costs per pound	0.12
	Ownership costs per pound	0.07
	Total costs per pound	0.19

1. Totals may not sum due to rounding.

2. Irrigation costs are explained in detail on page 2.

Written by

Drew Kientzy, Research Analyst, Agricultural Business and Policy; **Ben Brown**, Extension Specialist, Agricultural Business and Policy; **Chase Floyd**, Assistant Research Professor, Crop Protection; **Justin Calhoun**, Assistant Extension Professor, Plant Science and Technology

Irrigation costs in Table 1 include fuel, labor and any leveling, ditching or leveeing required for irrigation; and ownership costs for the pumping engine and aboveground irrigation systems.

Table 2 shows input assumptions for the peanut budget. Price estimates reflect harvest time prices. Costs or returns from storage or other marketing methods are not included. Farm business overhead includes liability insurance, utilities, accounting, etc. Real estate charge is an estimated rental rate for above average land.

Table 3 details the field activities assumed in this budget and their machinery costs. Machinery costs were estimated using typical life (years), use (hours) and performance (fuel and labor) factors for each power unit and implement used.

Producers can customize this budget using the Southeast Missouri Crop Budget spreadsheet, which can be downloaded from the [Missouri Crop and Livestock Enterprise Budgets webpage](https://extension.missouri.edu/programs/agricultural-business-and-policy-extension/missouri-crop-and-livestock-enterprise-budgets) (extension.missouri.edu/programs/agricultural-business-and-policy-extension/missouri-crop-and-livestock-enterprise-budgets).

Table 2. Input assumptions used in Southeast Missouri peanut (furrow-irrigated) planning budget for 2025.

Selected input quantities	Per acre	Selected input prices	Dollars per unit
Peanut yield, pounds	5,750	Peanut market price, per pound	0.20
Seeding rate, pounds	150	Seed, per 2,000 pound bag	1,625.00
Phosphorus rate, pounds P ₂ O ₅	65	Phosphorus, per pound P ₂ O ₅	0.45
Potassium rate, pounds K ₂ O	100	Potassium, per pound K ₂ O	0.38
Sulphur rate, pounds	15	Other nutrients, average price per pound	0.55
Lime rate, tons	0.5	Lime, per ton	30.00
Sum of allocated labor, hours	1.35	Skilled labor, per hour	20.00
Irrigation water, acre-inches applied	15	Irrigation water applied, cost per acre-inch	6.94
Operating interest, annual percentage	7.75	Farm diesel, per gallon	3.25

Table 3. Machinery assumptions used in Southeast Missouri peanut (furrow-irrigated) planning budget for 2025, on a per acre basis.

Machine activity (not custom fieldwork)	Trips across field	Labor (hours)	Fuel (gallons)	Operating costs ¹ (dollars)	Ownership costs ² (dollars)	Total costs (dollars)
Disk bedder (36 feet), 280 HP MFWD	1	0.06	0.74	4.88	6.65	11.53
Bed leveler (36 feet), 280 HP MFWD	1	0.06	0.74	4.88	6.64	11.52
Row crop planter (40 feet), 280 HP MFWD	1	0.05	0.66	8.71	16.60	25.31
Self-propelled boom sprayer (120 feet), 275 HP	5	0.05	0.55	27.91	7.22	35.13
Peanut digger (15 feet), 200 HP MFWD	1	0.29	2.55	19.65	30.00	49.65
Peanut combine (15 feet), 280 HP MFWD	1	0.38	4.68	33.62	55.68	89.29
Peanut dump cart (30 feet), 200 HP MFWD	1	0.20	1.76	14.71	26.48	41.19
Pickup (1 ton), 4WD		0.25	0.75	8.09	4.30	12.39
Dry fertilizer application, custom charge	1					7.02
Aerially apply chemicals, custom charge	1					8.00
Total³		1.35	12.43	122.44	153.58	291.04

1. Machinery operating cost is the sum of fuel, repairs, maintenance, and the value of labor.

2. Machinery ownership cost is the sum of machinery overhead and depreciation.

3. Totals may not sum due to rounding.

Abbreviations: 4WD = 4-wheel drive tractor or truck; HP = horsepower; MFWD = mechanical front-wheel drive tractor



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