

2020 Irrigated Dry Edible Bean (Center-Pivot) Cost-Return Budget

-----Western Kansas - Average Yields
 Gregg Ibendahl, Dan O'Brien, Lucas Haag, John Holman

Budget date: Oct-31-2019

item	unit	price	quantity	amount	Sub-total	your farm
INCOME						
Product						
Dry Edible Beans	cwt	\$27.75	20.00	\$555.00	\$555.00	_____
--TOTAL INCOME--					\$555.00	_____
EXPENSES						
Fertilizers						
Nitrogen	lb	\$0.28	120.14	\$34.06		
Phosphorus	lb	\$0.39	26.22	\$10.13	\$44.19	_____
Herbicides						
Pre-emergence				\$19.18	\$19.18	_____
Insecticides						
					\$21.41	_____
Seeds						
					\$45.04	_____
Crop insurance						
					\$23.67	_____
Miscellaneous						
					\$10.00	_____
Crop consulting						
					\$6.50	_____
Labor (beyond custom field operations)						
					\$27.00	_____
Custom Field Operations						
Fertilizer application				\$15.98		
Harvesting				\$42.53		
Hauling				\$9.26		
Planting				\$19.82		
Spraying				\$17.70		
Tillage				\$39.72	\$145.01	_____
Natural Gas						
					\$43.86	_____
Repair & Maintenance						
					\$4.95	_____
Interest on operating capital						
		6.0% on direct expenses		\$11.72	\$11.72	_____
Depreciation						
					\$76.67	_____
Interest on durable equipment						
					\$59.22	_____
Cash rent						
					\$121.00	_____
--TOTAL SPECIFIED EXPENSES--					\$659.43	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES					-\$104.43	_____

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Detailed budget page(s)

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item	unit	price	quantity	amount	Sub-total	your farm
INCOME						
Product						
Dry Edible Beans	cwt	\$27.75	20.00	\$555.00	\$555.00	_____
Other						
Govt payments, indemnity payments, etc.						_____

--TOTAL INCOME--					\$555.00	_____
DIRECT EXPENSES						
Fertilizers						
B - DAP (18-46-0) (with planter)	lb	\$0.24	57.00	\$13.41		
C - Anhydrous (1)	lb	\$0.23	134.00	\$30.78	\$44.19	_____
--- ACTUAL POUNDS - 120 N, 26 P, 0 K						
Herbicides						
B - Prowl H2O (1)	oz	\$0.40	48.00	\$19.18	\$19.18	_____
Insecticides						
Bravo Weather Stik (2)	oz	\$0.39	22.40	\$8.66		
Champ	pt	\$6.38	2.00	\$12.75	\$21.41	_____
Seeds						
Edible beans	lb	\$0.69	65.00	\$45.04	\$45.04	_____
Crop insurance						
Dry Beans_West_Irr	acre	\$23.67	1.00	\$23.67	\$23.67	_____
Miscellaneous						
Dry Beans_West_Irr	acre	\$10.00	1.00	\$10.00	\$10.00	_____
Crop consulting						
Dry Beans_West_Irr	acre	\$6.50	1.00	\$6.50	\$6.50	_____
Labor (beyond custom field operations)						
Additional labor	hour	\$15.00	1.20	\$18.00		
Irrigation labor	hour	\$15.00	0.60	\$9.00	\$27.00	_____
Custom Field Operations						
FERTAPP-NH3 application	acre	\$15.98	1.00	\$15.98		
HARVEST-Sunflower (base)	acre	\$42.53	1.00	\$42.53		
HARVEST-Sunflowers (no extra harvest charge)	cwt	\$0.00	20.00	\$0.00		
HAUL-Sunflower - hauling	cwt	\$0.46	20.00	\$9.26		
PLANT-Soybeans, reg-till planting	acre	\$19.82	1.00	\$19.82		
SPRAY-Ground herbicide	acre	\$5.88	1.00	\$5.88		
SPRAY-Ground insecticide	acre	\$5.91	2.00	\$11.82		
TILL-Chisel 4-12 in	acre	\$13.63	1.00	\$13.63		
TILL-Disk	acre	\$12.97	1.00	\$12.97		
TILL-Field cultivate	acre	\$13.12	1.00	\$13.12	\$145.01	_____
Natural Gas						
Well, pump, and gearhead	ac-in	\$2.92	15.00	\$43.86	\$43.86	_____
Repair & Maintenance						
Well, pump, and gearhead	ac-in	\$0.33	15.00	\$4.95	\$4.95	_____
Other						
Crop consulting, drying, etc.						_____
Interest on operating capital						

					\$11.72	_____

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item	unit	price	quantity	amount	Sub-total	your farm
--TOTAL DIRECT EXPENSES--					\$402.54	_____
-----Direct expense per cwt \$20.13						
FIXED EXPENSES						
Depreciation						
Irrigation - Center Pivot	acre	\$22.43	1.00	\$22.43		
Power unit	acre	\$17.60	1.00	\$17.60		
Well, pump, and gearhead	acre	\$36.64	1.00	\$36.64	\$76.67	_____
Interest on durable equipment						
Irrigation - Center Pivot	acre	\$28.04	1.00	\$28.04		
Power unit	acre	\$3.70	1.00	\$3.70		
Well, pump, and gearhead	acre	\$27.48	1.00	\$27.48	\$59.22	_____
Cash rent						
All crops_West_irr	acre	\$121.00	1.00	\$121.00	\$121.00	_____
--TOTAL FIXED EXPENSES--					\$256.89	_____
--TOTAL SPECIFIED EXPENSES--					\$659.43	_____
-----Total expenses per cwt \$32.97						
RETURNS ABOVE DIRECT EXPENSES					\$152.46	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES					-\$104.43	_____

15 acre-inches of water applied
 300 foot well depth
 \$ 2.92 fuel cost per acre-inch of water applied
 .71 Mcf of natural gas per acre-inch of water applied
 \$ 4.1 per Mcf for cost of natural gas
 10.7 Mcf of fuel used in total