

Crabgrass Establishment, 2010

Nov 2009

Yield, tons air-dry: 2.27
 Weighted value per ton, air-dry: \$43.64

Income per acre	AUMs	Yield	Price	Business unit total
Grazing		5.5	18.00	99.00
Other income				0.00
Total income per acre				\$99.00

Operating costs per acre				
Seed				23.10
Fertilizer				85.30
Nitrogen			17.60	
Phosphorus			10.80	
Potassium			32.90	
Other amendments			24.00	
Crop protection				3.64
Herbicide			3.64	
Insecticide-fungicide			0.00	
Crop supplies, storage				1.00
Crop consulting				0.00
Custom hire and rental				14.00
Machinery fuel and irrigation energy				6.95
Machinery repairs and maintenance				5.28
Operator and hired labor				11.99
Other expense				0.00
Operating interest				5.29
Operating costs per acre				\$156.56

Ownership costs per acre ¹				
Farm business overhead				5.43
Machinery overhead				7.82
Machinery depreciation				11.71
Real estate charge				27.80
Ownership costs per acre				\$52.76

Total costs per acre **\$209.32**

Income over operating costs per acre				-\$57.56
Income over total costs per acre				-\$110.32

Operating costs per ton, air-dry basis	\$69.01
Ownership costs per ton, air-dry basis	\$23.25
Total costs per ton, air-dry basis	\$92.26

Detailed Report

Establishment year Crabgrass Establishment, 2010

Selected input quantities	per acre	Selected input prices	\$ per unit
Forage yield, tons	2.27	Farm diesel, per gallon	2.45
Seeding rate, lbs	3	Operating interest, %	7.00
Nitrogen rate, lbs	40	Nitrogen, per lb	0.44
Phosphorus rate, lbs	40	Phosphorus, per lb	0.27
Potassium rate, lbs	70	Potassium, per lb	0.47
Lime rate, tons	2	Lime, per ton	12.00
Sum of allocated labor, hours	1.02	Skilled labor, per hour	17.00
Irrigation, inches	0	Land value, per acre	1,390

Machine activity (not custom)	Labor	Fuel	Operating	Ownership	Total	Trips
	Hours	Gallons	Costs ²	Costs ³	Costs	
	per acre	per acre	\$ per acre	\$ per acre	\$ per acre	per acre
Chisel plow (15 ft); 130 MFWD	0.12	0.67	4.23	5.56	9.79	1
Tandem disk (21 ft); 130 MFWD	0.16	0.94	6.68	7.21	13.88	2
Roller harrow (12 ft); 60 HP	0.13	0.36	3.12	3.01	6.14	1
Pickup truck		0.81	3.12	3.75	6.87	
Total	0.42	2.77	17.15	19.53	36.68	4

¹ Farm business overhead includes liability insurance, utilities, accounting, etc. Machinery overhead is the sum of opportunity interest, property taxes, insurance, and housing. Machinery depreciation is a market value decline due to aging and usage. Thus, a portion of depreciation should be considered an operating costs for some decisions. Real estate charge includes land, improvements, taxes.

Economic costs may differ from rental rates.

² Machinery operating cost is the sum of fuel, repairs, maintenance, and the value of labor.

³ Machinery ownership cost is the sum of machinery overhead and depreciation (see page 1).