

BARLEY FOR GRAIN, (Intensive Management)

ESTIMATED COSTS AND RETURNS PER ACRE
100 BUSHEL YIELD

Acres
1

	UNIT	QUANTITY PER ACRE	PRICE OR COST/UNIT	TOTAL PER ACRE	YOUR FARM
1. GROSS RECEIPTS					
BARLEY	BU.	100.00	\$2.90	\$290.00	-----
TOTAL RECEIPTS:				\$290.00	-----
2. PRE-HARVEST VARIABLE COSTS					
SEED: BARLEY	BAG	2.00	\$6.92	\$13.84	-----
FERTILIZER*	Soil Test Recommendation				
NITROGEN	LBS	143.00	\$0.38	\$54.34	-----
PHOSPHATE	LBS	52.00	\$0.32	\$16.64	-----
POTASH	LBS	46.00	\$0.26	\$11.96	-----
FERTILIZER APPLICATION	ACRE	2.00	\$7.25	\$14.50	-----
LIME (PRORATED)	TON	0.33	\$32.50	\$10.73	-----
HERBICIDES	ACRE	1.00	\$5.79	\$5.79	-----
INSECTICIDES	ACRE	1.00	\$5.55	\$5.55	-----
FUNGICIDES	ACRE	1.00	\$0.00	\$0.00	-----
GROWTH REGULATOR	ACRE	1.00	\$7.73	\$7.73	-----
CHEMICAL APPLICATION	ACRE	1.00	\$7.00	\$7.00	-----
FUEL,OIL, LUBE	Eq Gallons	3.19	\$2.35	\$7.50	-----
REPAIRS	ACRE	1.00	\$7.25	\$7.25	-----
PRE-HARVEST LABOR	HRS	0.70	\$12.00	\$8.40	-----
CASH RENT OR LAND CHARGE	ACRE	1.00	\$0.00	\$0.00	-----
CROP INSURANCE	ACRE	1.00	\$6.52	\$6.52	-----
SCOUTING	ACRE	1.00	\$0.00	\$0.00	-----
OTHER COSTS	ACRE	1.00	\$0.00	\$0.00	-----
PRODUCTION INTEREST	6 MONTHS	\$88.88	7.0%	\$6.22	-----
TOTAL PRE-HARVEST COSTS		\$1.84 PER BU.		\$183.97	-----
3. HARVEST VARIABLE COSTS					
FUEL,OIL, LUBE	Eq Gallons	1.81	\$2.35	\$4.25	-----
REPAIRS	ACRE	1.00	\$4.08	\$4.08	-----
HARVEST LABOR	HRS	0.18	\$12.00	\$2.16	-----
HAULING	BU.	100.00	\$0.18	\$18.00	-----
STORAGE	BU.	100.00	\$0.00	\$0.00	-----
DRYING	BU.	100.00	\$0.00	\$0.00	-----
TOTAL HARVEST COSTS:		\$0.28 PER BU.		\$28.49	-----
4. TOTAL VARIABLE COSTS		73 BU.	\$2.12 PER BU.	\$212.46	-----
5. RETURN OVER TOTAL VARIABLE COSTS				\$77.54	-----
6. MACHINERY FIXED COSTS (BASED ON NEW EQUIPMENT COST)					
TRACTOR & MACHINERY	ACRE	1.00	\$43.45	\$43.45	-----
7. OTHER FIXED COSTS					
GENERAL OVERHEAD	DOL.	\$212.46	8.0%	\$17.00	-----
8. TOTAL FIXED COSTS:				\$60.45	-----
9. TOTAL VARIABLE & FIXED COSTS		\$2.73 PER BU.		\$272.91	-----
10. PROJECTED NET RETURNS TO LAND, RISK AND MANAGEMENT:				\$17.09	-----

* This BUDGET is for PLANNING PURPOSES ONLY. Fertilizer rates are based on projected nutrient removal of harvested crop.

* Fertilizer requirements will vary with application method, manure use and/or residual nutrient levels in the soil.

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PER ACRE MACHINERY AND LABOR REQUIREMENTS							
MONTH	OPERATION	Times OVER	LABOR HOURS	MACHINE HOURS	FUEL, OIL, & LUBE	REPAIR COSTS	FIXED COSTS
PRE-HARVEST							
October	140HP + Offset Disk 16 FT	1	0.14	0.13	\$2.16	\$2.02	\$5.02
October	180HP + Tandem Disk 21FT Rigid	1	0.11	0.10	\$2.14	\$1.92	\$4.74
October	100HP + Grain Drill 15Ft - 6"	1	0.17	0.15	\$1.78	\$2.85	\$6.37
February	HIBOY (200HP - 60 FT)	1	0.07	0.03	\$0.71	\$0.23	\$2.33
April	HIBOY (200HP - 60 FT)	1	0.07	0.03	\$0.71	\$0.23	\$2.33
25%	UNALLOCATED LABOR(HRS./AC.)		0.14				
	SUB-TOTAL PRE-HARVEST		0.70	0.44	\$7.50	\$7.25	\$20.79
HARVEST							
June	Lg Combine + Grain Table 30 FT	1	0.14	0.13	\$4.25	\$4.08	\$22.66
25%	UNALLOCATED LABOR(HRS./AC.)		0.04				
	SUB-TOTAL HARVEST		0.18	0.13	\$4.25	\$4.08	\$22.66

\$2.35 Fuel

INCOME ABOVE VARIABLE COSTS AT DIFFERING YIELDS AND PRICES						
FARM YIELD	TOTAL VARIABLE COSTS COST/ACRE	FARM PRICE (\$/bu.)				
BU.		\$2.32	\$2.61	\$2.90	\$3.19	\$3.48
80	\$203.14	(\$17.54)	\$5.66	\$28.86	\$52.06	\$75.26
90	\$207.80	\$1.00	\$27.10	\$53.20	\$79.30	\$105.40
100	\$212.46	\$19.54	\$48.54	\$77.54	\$106.54	\$135.54
110	\$217.12	\$38.08	\$69.98	\$101.88	\$133.78	\$165.68
120	\$221.78	\$56.62	\$91.42	\$126.22	\$161.02	\$195.82

10% Table Sensitivity

CHEMICAL USE ASSUMPTIONS						
TYPE	Trade Name	UNIT	QUANTITY	PRICE OR COST/UNIT	TOTAL PER ACRE	MONTH
H	Harmony GT	OZ	0.50	\$11.57	\$5.79	February
I	Malathion 57%	PT	1.50	\$3.70	\$5.55	April
G	Cerone	PT	0.75	\$10.30	\$7.73	April
Notes	Chemical Type: H = Herbicide; I = Insecticide; F = Fungicide; G = Growth Regulator					

Trade and brand names are used only for the purpose of providing information. Virginia Cooperative Extension does not guarantee or warrant the standard of any product named to the exclusion of others which also may be suitable.