

Native Prairie
Perennial - Low Input

													Present Value	Annualized PV (compare to corn yearly cost)		
	Quantity	Unit	Price /Unit	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5	Yr 6	Yr 7	Yr 8	Yr 9	Yr 10	Total		
REVENUE SOURCE																
Biomass	2.1 ton		\$60.00	0	1	2	2	2	2	2	2	2	2	\$1,092	\$811	
Revenue Stream				\$0	\$64	\$128	\$128	\$128	\$128	\$128	\$128	\$128	\$128		\$141	
SELECT CASH EXPENSES																
Seed	Mix	8 PLS lb	\$65.00	\$488	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$488	\$464	
															\$63	
Fertilizer ¹																
Nitrogen	0 lbs		\$0.46	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
P ₂ O ₅	0 lbs/ton		\$0.62	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
K ₂ O	0 lbs/ton		\$0.63	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Pest Control																
WG spray	1 acre		\$13.74	\$27	\$14	\$0	\$14	\$0	\$14	\$0	\$14	\$0	\$14	\$96	\$78	
															\$12	
Machine Costs																
Chisel Plow	1 acre		\$14.17	\$14	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$14	\$13	
Soil Finish	1 acre		\$11.10	\$11	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$11	\$11	
Grass Seeder, broadcast	1 acre		\$9.00	\$9	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$9	\$9	
Sprayer	2 acre		\$5.60	\$11	\$6	\$0	\$6	\$0	\$6	\$0	\$6	\$0	\$6	\$39	\$32	
															\$5	
Post-harvest																
Mower-condition (16')	1 acre		\$13.50	\$0	\$7	\$14	\$14	\$14	\$14	\$14	\$14	\$14	\$14	\$115	\$85	
Raking - Hay 9ft	1 acre		\$6.00	\$0	\$3	\$6	\$6	\$6	\$6	\$6	\$6	\$6	\$6	\$51	\$38	
Baling - Ig round	2.85 bale		\$8.35	\$0	\$12	\$24	\$24	\$24	\$24	\$24	\$24	\$24	\$24	\$203	\$151	
Bale-to-storage	2.85 bale		\$3.10	\$0	\$4	\$9	\$9	\$9	\$9	\$9	\$9	\$9	\$9	\$75	\$56	
Trucking	2.14 ton		\$3.00	\$0	\$6	\$6	\$6	\$6	\$6	\$6	\$6	\$6	\$6	\$58	\$43	
Marketing	128.46		3.50%	\$0	\$2	\$4	\$4	\$4	\$4	\$4	\$4	\$4	\$4	\$38	\$28	
															\$5	
TOTAL CASH EXPENSES				-\$560	-\$54	-\$63	-\$82	-\$63	-\$82	-\$63	-\$82	-\$63	-\$82	-\$1,197	-\$1,008	-\$155
REV ABOVE EXPENSES				-\$560	\$10	\$65	\$46	\$65	\$46	\$65	\$46	\$65	\$46	-\$105	-\$197	-\$14
Labor		hours/acre		0.71	2.20	1.91	2.20	1.91	2.20	1.91	2.20	1.91	2.20			
Calculation Assumptions:																
Interest Rate			5%													
Years of Production			10													
(1+i) ⁿ - 1			0.63													
i(1+i) ⁿ			0.08													



Extension Bulletin E-3084, Profitability of Converting to Biofuel Crops
Web: <http://bioenergy.msu.edu/economics/index.shtml>