Poplar Woody - Low Input

		Quantity Unit	Pri	ce /Unit	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5	Yr 6	Yr 7	Yr 8	Yr 9	Yr 10	Total	Present Value	Annualized PV (compare to corn yearly cost)
REVENUE S	OURCES																
	Wood Yield	5.0 dry ton			3	5	5	5	5	5	5	5	5	5	48		
TOTAL REV	ENUE		\$	60.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,900	\$2,900	\$1,780	\$231
CASH EXPE	NSES																
Planting M	at.																
	Cuttings	1100.0 cutting	\$	0.20	\$220	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$220	\$210	\$27
Fertilizer																	
	Nitrogen	0.0 lbs	\$	0.46	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	P ₂ O ₅	0.0 lbs	\$	0.62	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	K ₂ O	0.0 lbs	\$	0.63	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Pest Contro	ol																
	Glyphosphate	0.2 4 # (gal)	Ś	40.50	\$9	\$9	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$18	\$16	\$2
	Pendamethalin	0.3 3.3 # (gal)	\$	29.70	\$10	\$10	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$20	\$19	\$2
Machine C	osts																
	Chisel Plow	1.0 acre (not custom)	\$	14.17	\$14	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$14	\$13	\$2
	Soil Finish	1.0 acre	\$	11.10	\$11	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$11	\$11	\$1
	Hand-planting	1.0 acre	\$	277.63	\$278	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$278	\$264	\$34
	Sprayer	2.0 acre	\$	5.60	\$11	\$11	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$22	\$21	\$3
Harvest*																	
	feller-buncher/for	1.0 green ton	\$	13.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,257	\$1,257	\$772	\$100
	Chipping/grinding	1.0 green ton	\$	6.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$580	\$580	\$356	\$46
	Trucking	1.0 green ton	\$	5.20	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$503	\$503	\$309	\$40
	Marketing			3.5%	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$102	\$102	\$62	\$8
TOTAL CASH EXPENSES					\$553	\$30	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,441	\$3,024	\$2,052	\$266
REV ABOVE	EXPENSES				-\$553	-\$30	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$459	-\$124	-\$272	-\$35
Labor		hours/acre			18.21	0.23	0	0	0	0	0	0	0	0.54			

*Harvest cost are calculated per green ton. Green wood is roughly twice the weight of dry wood

Calculation Assumptions:

 Interest Rate
 5%

 Years of Productic
 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