

PEAT Main Menu Last modified: Apr 18, 2018

- Instructions
- UnProtect Worksheets Only
- UnProtect Workbook
- Hide IMPLAN Sheets

Enter Project Name

Darby Lumber Lands Phase Two

Change Deflator Years

Enter Base year	2017	113.42
Enter Result Year	2017	113.42
Select year of IMPLAN model data	2015	110.01

Change Alternative Names

Current Names	Enter New Names (Limit to 20 characters)
Alt. 1	Alt. 1
Alt. 2	Alt. 2
Alt. 3	Alt. 3
Alt. 4	Alt. 4

Import Data from FEASIBILITY Worksheet

Select Feasibility Worksheet

Alt 1
Alt 2
Alt 3
Alt 4
Import All Alts

- Change Alternative Names
- Reset to Defaults

Change Time Periods by Alternative

Current Time Periods	Do not Edit this table									
Alt. 1	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
Alt. 2	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
Alt. 3	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
Alt. 4	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
Enter New Time Periods										
Alt. 1	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Alt. 2	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
Alt. 3	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
Alt. 4	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027

- Change Time Periods
- Reset to Defaults

Copy from Alternative to Alternative

Alt. 1 Alt. 2

Copy Alternative

Delete Data in Alternative

Alt. 1

Delete Data

Delete Data

Reset Sale Prep and Revenue Defaults

Reset Defaults

Years of Activity Implementation	Alt. 1	Alt. 2	Alt. 3	Alt. 4
Timber				
Non-Timber				

Reset Formulas in Column E of Alt Worksheets

Reset Formulas

Planned Activity	Unit Cost	Amount	Total Cost	Unit Cost	Amount	Total Cost	Unit Cost	Amount	Total Cost	Unit Cost	Amount	Total Cost
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1. Cost data for project activities

A. LOGGING ACTIVITIES

Brush Disposal - Purchaser	\$2.00	10,674.00	\$21,348.00	\$0.00	0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00	0.00	\$0.00
Bursh Disposal - Deposits	\$1.55	10,674.00	\$16,544.70	\$0.00	0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00	0.00	\$0.00
Erosion control	\$1.63	10,674.00	\$17,398.62	\$0.00	0.00	\$0.00	\$5.00	0.00	\$0.00	\$0.00	0.00	\$0.00
Temp Road Costs	\$6.89	10,674.00	\$73,543.86	\$0.00	0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00	0.00	\$0.00
Road maintenance - Purchaser	\$6.19	10,674.00	\$66,072.06	#DIV/0!	0.00	\$0.00	#DIV/0!	0.00	\$0.00	#DIV/0!	0.00	\$0.00
Unusual Cost Adjustment (swing)	\$5.18	10,674.00	\$55,291.32	#DIV/0!	0.00	\$0.00	#DIV/0!	0.00	\$0.00	#DIV/0!	0.00	\$0.00
Misc - borate application	\$0.23	10,674.00	\$2,469.09	#DIV/0!	0.00	\$0.00	#DIV/0!	0.00	\$0.00	#DIV/0!	0.00	\$0.00
Road maintenance - Deposits	\$2.59	10,674.00	\$27,645.66	\$0.00	0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00	0.00	\$0.00
0	\$0.00	0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00	0.00	\$0.00
0	\$0.00	0.00	\$0.00	#DIV/0!	0.00	\$0.00	#DIV/0!	0.00	\$0.00	#DIV/0!	0.00	\$0.00
0	\$0.00	0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00	0.00	\$0.00
0	\$0.00	0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00	0.00	\$0.00
0	\$0.00	0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00	0.00	\$0.00
0	\$0.00	0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00	0.00	\$0.00

Other contractual requirements (other than those listed above) should be listed as separate items under road work or restoration

B. ADDITIONAL ROADWORK NOT INCLUDED ABOVE (INCLUDE SPECIFIED ROAD CONSTRUCTION/RECONSTRUCTION HERE)

Specified Road construction - purchaser	\$11.25	10,674.00	\$120,082.50	\$0.00	0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00	0.00	\$0.00
Road BMP Upgrades - Forest Service	\$0.00	1.00	\$119,828.24	\$0.00	0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00	0.00	\$0.00
Road decommissioning - Forest Service	\$0.00	0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00	0.00	\$0.00
Road decommissioning - Purchaser	\$0.00	0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00	0.00	\$0.00
Road Storage - Forest Service	\$0.00	0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00	0.00	\$0.00
Road storage - purchaser	\$0.00	1.00	\$1,121.50	\$0.00	0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00	0.00	\$0.00
Spec road reconstruction - Purchaser	\$0.00	1.00	\$31,111.69	\$0.00	0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00	0.00	\$0.00
0	\$0.00	0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00	0.00	\$0.00
0	\$0.00	0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00	0.00	\$0.00
0	\$0.00	0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00	0.00	\$0.00
0	\$0.00	0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00	0.00	\$0.00
Additional Items	\$0.00	0.00	\$0.00									
Additional Items	\$0.00	0.00	\$0.00									
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Additional Items	\$0.00	0.00	\$0.00									

Additional Items	\$0.00	0.00	\$0.00
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Additional Items	\$0.00	0.00	\$0.00
Additional Items	\$0.00	0.00	\$0.00
Additional Items	\$0.00	0.00	\$0.00
Additional Items	\$0.00	0.00	\$0.00
Additional Items	\$0.00	0.00	\$0.00

C. RESTORATION ACTIVITIES

Weed spraying - roadside spray, purchaser	\$0.61	10,674.00	\$6,511.14	\$0.00	0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00	0.00	\$0.00
Bio Control Knapweed	\$0.00	1.00	\$491.40	#DIV/0!	0.00	\$0.00	#DIV/0!	0.00	\$0.00	#DIV/0!	0.00	\$0.00
Regeneration Planting	\$0.00	1.00	\$48,956.00	#DIV/0!	0.00	\$0.00	#DIV/0!	0.00	\$0.00	#DIV/0!	0.00	\$0.00
Fuels thinning, slashing	\$0.00	1.00	\$258,800.00	\$0.00	0.00	\$0.00	\$0.00	0.00	\$0.00	\$0.00	0.00	\$0.00
Fuels thinning, handpiling	\$0.00	1.00	\$388,200.00	#DIV/0!	0.00	\$0.00	#DIV/0!	0.00	\$0.00	#DIV/0!	0.00	\$0.00
Underburn	\$0.00	1.00	\$97,050.00	#DIV/0!	0.00	\$0.00	#DIV/0!	0.00	\$0.00	#DIV/0!	0.00	\$0.00
0	\$0.00	0.00	\$0.00	#DIV/0!	0.00	\$0.00	#DIV/0!	0.00	\$0.00	#DIV/0!	0.00	\$0.00

Table XX. Activity Expenditures by Alternative (those not included in appraisal)

	Alt. 1	Alt. 2	Alt. 3	Alt. 4
Planned Activities	Total Cost	Total Cost	Total Cost	Total Cost
	\$0.00			
	\$0.00			
	\$0.00			
	\$0.00			
	\$0.00			
	\$0.00			
		\$0.00		
		\$0.00		
		\$0.00		
		\$0.00		
		\$0.00		
		\$0.00		
			\$0.00	
			\$0.00	
			\$0.00	
			\$0.00	
			\$0.00	
			\$0.00	
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
C. RESTORATION ACTIVITIES				
	\$0.00	\$0.00	\$0.00	\$0.00
Bio Control Knapweed	\$491.40	\$0.00	\$0.00	\$0.00

Table XX. Activity Expenditures by Alternative (those not included in appraisal)

	Alt. 1	Alt. 2	Alt. 3	Alt. 4
Planned Activities	Total Cost	Total Cost	Total Cost	Total Cost
	\$0.00	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00	\$0.00
D. Other				
Sale Preparation	\$128,088.00	\$0.00	\$0.00	\$0.00
Sale Administration	\$90,729.00	\$0.00	\$0.00	\$0.00
Total Costs	\$1,132,142.64	\$0.00	\$0.00	\$0.00

Present Net Value

		Deflator
Base Year	2017	113.422
Result Year	2017	113.422

	Alt. 1	Alt. 2	Alt. 3	Alt. 4
<u>Timber Sale and Required Design Criteria</u>				
PV Costs	\$250,168	\$0	\$0	\$0
PV Revenue	\$72,096	\$0	\$0	\$0
PNV	(\$178,072)	\$0	\$0	\$0
<u>All Project Activities</u>				
PV Costs	\$957,598	\$0	\$0	\$0
PV Revenue	\$72,096	\$0	\$0	\$0
PNV	(\$885,503)	\$0	\$0	\$0

Present Net Value

Base Year 2018
 Start Year 2019

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
Sale Preparation	115279.2	12808.8	0	0	0	0	0	0	0	0
Sale Administration	0	22682.25	22682.25	22682.25	22682.25	0	0	0	0	0
Total Timber and Required Design Criteria Costs	115279.2	35491.05	22682.25	22682.25	22682.25	48956	0	0	0	0
Present Value of Costs	115279.2	34126.01	20971.02	20164.44	19388.88	40238.26	0	0	0	0
PNV Timber	-115279	-15028.2	-2607.78	-2507.48	-2411.04	-40238.3	0	0	0	0
Costs (All activities)										
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0

250167.8

-178072

Category	Measure	Alt. 1	Alt. 2	Alt. 3	Alt. 4	No Action
Timber Harvest Information	Acres Harvested	945	0	0	0	0
	Sawtimber Volume Harvested (CCF)	10,674	0	0	0	0
	Base Rates (\$/CCF)	4	0	0	0	0
	Appraised Stumpage Rate (\$/CCF)	-12	0	0	0	0
	Predicted High Bid (\$/CCF)	8	0	0	0	0
	Total Revenue (Thousands of \$)	82	0	0	0	0
Timber Harvest & Required Design Criteria	PNV (Thousands of \$)	-178	0	0	0	0
Timber Harvest & All Other Planned Non-timber Activities	PNV (Thousands of \$)	-886	0	0	0	0

This worksheet calculates the employment and labor income effects attributable to timber harvest, vegetation management activities, and other restoration activities. Enter data in yellow shaded cells for each alternative. Costs may be entered in the green shaded cells if it helps you track your costs more efficiently.

Project Name

Darby Lumber Lands Phase Two			
Alt. 1	Alt. 2	Alt. 3	Alt. 4

1. Cost data for project activities - ONLY INCLUDE COST OF ACTIVITIES THAT ARE CONTRACTED OUT. DO NOT INCLUDE ACTIVITIES DONE BY FORCE ACCOUNT.

Re-link Cost Data to Alt Worksheets

A. Forestry and Logging Activities

THESE ACTIVITIES ARE INCLUDED IN THE RESPONSE COEFFICIENTS FOR TIMBER PRODUCTS SO ARE NOT ACCOUNTED FOR SEPERATELY IN THE IMPACT CALCULATION. HOWEVER, YOU MAY ENTER INFORMATION IN THE GREEN CELLS IF IT HELPS YOU TRACK YOUR COSTS MORE EFFICIENTLY.

	Alt. 1	Alt. 2	Alt. 3	Alt. 4
Brush Disposal - Purchaser	\$21,348			
Bursh Disposal - Deposits				
Erosion control	\$17,399			
Temp Road Costs	\$73,544			
Road maintenance - Purchaser	\$66,072			
Unusual Cost Adjustment (swing)	\$55,291			
Misc - borate application	\$2,469			
Road maintenance - Deposits				
0				
0				
0				
0				
0				
0				
Other contractual requirements (other than those listed above) should be listed as separate items under road work or restoration				

B. ADDITIONAL ROADWORK NOT INCLUDED ABOVE (INCLUDE SPECIFIED ROAD CONSTRUCTION/RECONSTRUCTION HERE)

Specified Road construction - purchaser	\$120,083			
Road BMP Upgrades - Forest Service				
Road decommissioning - Forest Service				
Road decommissioning - Purchaser				
Road Storage - Forest Service				
Road storage - purchaser	\$1,122			
Spec road reconstruction - Purchaser	\$31,112			
0				
0				
0				
0				

Alt. 1 Additional Items

Additional Items	
Additional Items	
Additional Items	

0			
0			
0			
0			
0			
0			

Alt. 1 Additional Items

Additional Items	
Additional Items	
Additional Items	
Additional Items	
Additional Items	
Additional Items	

Alt. 2 Additional Items

Additional Items	
Additional Items	
Additional Items	
Additional Items	
Additional Items	
Additional Items	

Alt. 3 Additional Items

Additional Items	
Additional Items	
Additional Items	
Additional Items	
Additional Items	
Additional Items	

Alt. 4 Additional Items

Additional Items	
Additional Items	
Additional Items	
Additional Items	
Additional Items	
Additional Items	

2. Timber harvest information

A. Volume related data from timber harvest

Volume Harvested (CCF)	10,674	-	-	-
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B. Proportion processed by wood product sector

Sawmills	90.0%	0.0%	0.0%	0.0%
Veneer	0.0%	0.0%	0.0%	0.0%
Log Homes	0.0%	0.0%	0.0%	0.0%
Post & Poles	0.0%	0.0%	0.0%	0.0%
Pulp	10.0%	0.0%	0.0%	0.0%

3. Number of years for activity implementation

Non-timber Activities	7	0	0	0
Timber Harvest Transport and Processing	4	0	0	0

BBER Response Coefficients per 1 MMCF (Labor Income in 1000s of 2011\$)

Direct	Montana and Idaho	
	Employment	Labor Income
Forestry & logging	12	540
Sawmills	14	644
Plywood and Veneer	32	1,664
OSB (reconstituted wood products) (na)		
Roundwood Pulpwood	9	810
Other timber products	38	1,520
Log Homes	100	3,500
Facilities processing residue from sawmills	5	320
Facilities processing residue from plywood	4	256

Source: Sorenson, C.B., Keegan, C.E., Morgan, T.A., McIver, C.P., Niccolucci, M.J. 2016. Employment and Wage Impacts of Timber Harvesting and Processing in the United States. J. For. 114(4):474-482.

Calendar Year	GDP Deflator	
1996	76.6990	
1997	78.0120	1.7%
1998	78.8590	1.1%
1999	80.0650	1.5%
2000	81.8870	2.3%
2001	83.7540	2.3%
2002	85.0390	1.5%
2003	86.7350	2.0%
2004	89.1200	2.7%
2005	91.9880	3.2%
2006	94.8140	3.1%
2007	97.3370	2.7%
2008	99.2460	2.0%
2009	100.0000	0.8%
2010	101.2210	1.2%
2011	103.3110	2.1%
2012	105.2140	1.8%
2013	106.9130	1.6%
2014	108.8320	1.8%
2015	110.0120	1.1%
2016	111.4160	1.3%
2017	113.4220	1.8%

Lists Items	
1.	2.
Contract	Yes
Force	No

1.88% average change in GDP deflator

Source: BEA, National Income and Product Accounts Table 1.1.9 Implicit Price Deflator for Gross Domestic Product

[NIPA table 1.1.9](#) (if link is broken, google search for BEA implicit price deflator and you should be able to find it pretty quickly)

NOTE: After downloading the table, to get annual rather than quarterly data, go to "modify" (see below) and choose annual data:

