

# **TEMPORARY ROAD COST ESTIMATING**



**Step 9:** Remove Profit allowance by dividing the total in Step 8 by 1.06.

**Example Temporary Road Calculation:**

Location:	Idaho
	Average side slope: 30 percent
	Estimated length: 1.5 miles
	Timber volume: 20 MBF/acre
	Drainage structures: 3 dips
	1 - 18" culvert, slope is 20%
	1 - 24" culvert, slope is 20%
	Average scarification needed for obliteration
Solution:	
	<b>Step 1:</b> Clearing and grubbing = \$4,040/mile
	<b>Step 2:</b> Excavation = \$2,270/mile
	<b>Step 3:</b> Seeding = \$820/mile
	<b>Step 4:</b> Obliteration = \$1,800/mile
	<b>Step 5:</b> (1) + (2) + (3) + (4) = \$8,930/mile
	<b>Step 6:</b> \$8,930/mile x 1.5 miles = \$13,395
	<b>Step 7:</b> Drainage structures:
	3 dips x \$125/dip = \$375
	1 18" culvert = \$685
	1 24" culvert = \$775
	<u>\$1,835</u>
	<b>Step 8:</b> (6) + (7) = \$13,395 + \$1,835 = \$15,230
	Mobilization = \$15,230* 0.07 = \$1,066
	Total = \$16,296
	<b>Step 9:</b> \$16,296/ 1.06 (profit) = \$15,370(rounded)

*Note: Temporary erosion control measures are not included in above example, refer to Section 157 for additional information. Also, this example did not include truck turnouts, turn-arounds or additional clearing for windrows.*

**Table T-1**  
**Idaho**  
**Basic Temporary Road Costs**

<i>Side Slope %</i>	<i>R/W Vol/Ac</i>	<i>Temporary Road Clearing \$/mile</i>	<i>Excavation \$/mile</i>	<i>Seeding 12 ft w/o ditch \$/mile</i>
0	0	\$3,440	\$1,420	\$690
10	0	\$3,030	\$1,420	\$610
20	0	\$3,280	\$1,650	\$690
30	0	\$3,740	\$2,270	\$820
40	0	\$4,630	\$3,540	\$1,020
50	0	\$6,810	\$5,300	\$1,360
0	5	\$3,460	\$1,420	\$690
10	5	\$2,990	\$1,420	\$610
20	5	\$3,280	\$1,650	\$690
30	5	\$3,830	\$2,270	\$820
40	5	\$4,820	\$3,540	\$1,020
50	5	\$7,320	\$5,300	\$1,360
0	10	\$3,500	\$1,420	\$690
10	10	\$2,970	\$1,420	\$610
20	10	\$3,290	\$1,650	\$690
30	10	\$3,900	\$2,270	\$820
40	10	\$5,010	\$3,540	\$1,020
50	10	\$7,830	\$5,300	\$1,360
0	15	\$3,520	\$1,420	\$690
10	15	\$2,940	\$1,420	\$610
20	15	\$3,310	\$1,650	\$690
30	15	\$3,970	\$2,270	\$820
40	15	\$5,220	\$3,540	\$1,020
50	15	\$8,340	\$5,030	\$1,360
0	20	\$3,560	\$1,420	\$690
10	20	\$2,910	\$1,420	\$610
20	20	\$3,310	\$1,650	\$690
30	20	\$4,040	\$2,270	\$820
40	20	\$5,410	\$3,540	\$1,020
50	20	\$8,850	\$5,300	\$1,360
0	25	\$3,590	\$1,420	\$690
10	25	\$2,880	\$1,420	\$610
20	25	\$3,320	\$1,650	\$690
30	25	\$4,120	\$2,270	\$820
40	25	\$5,600	\$3,540	\$1,020
50	25	\$9,350	\$5,300	\$1,360

**Table T-1 (Continued)**  
**Idaho**  
**Basic Temporary Road Costs**

<i>Side Slope %</i>	<i>R/W Vol/Ac</i>	<i>Temporary Road Clearing \$/mile</i>	<i>Excavation \$/mile</i>	<i>Seeding 12 ft w/o ditch \$/mile</i>
0	30	\$3,620	\$1,420	\$690
10	30	\$2,860	\$1,420	\$610
20	30	\$3,330	\$1,650	\$690
30	30	\$4,190	\$2,270	\$820
40	30	\$5,810	\$3,540	\$1,020
50	30	\$9,860	\$5,300	\$1,360
0	35	\$3,650	\$1,420	\$690
10	35	\$2,820	\$1,420	\$610
20	35	\$3,340	\$1,650	\$690
30	35	\$4,260	\$2,270	\$820
40	35	\$6,000	\$3,540	\$1,020
50	35	\$10,370	\$5,300	\$1,360
0	40	\$3,680	\$1,420	\$690
10	40	\$2,800	\$1,420	\$610
20	40	\$3,340	\$1,650	\$690
30	40	\$4,350	\$2,270	\$820
40	40	\$6,200	\$3,540	\$1,020
50	40	\$10,880	\$5,300	\$1,360
0	45	\$3,710	\$1,420	\$690
10	45	\$2,770	\$1,420	\$610
20	45	\$3,360	\$1,650	\$690
30	45	\$4,420	\$2,270	\$820
40	45	\$6,390	\$3,540	\$1,020
50	45	\$11,390	\$5,300	\$1,360
0	50	\$3,740	\$1,420	\$690
10	50	\$2,750	\$1,420	\$610
20	50	\$3,370	\$1,650	\$690
30	50	\$4,490	\$2,270	\$820
40	50	\$6,600	\$3,540	\$1,020
50	50	\$11,890	\$5,300	\$1,360

**Table T-1**  
**Montana**  
**Basic Temporary Road Costs**

<i>Side Slope %</i>	<i>R/W Vol/Ac</i>	<i>Temporary Road Clearing \$/mile</i>	<i>Excavation \$/mile</i>	<i>Seeding 12 ft w/o ditch \$/mile</i>
0	0	\$3,660	\$1,320	\$730
10	0	\$3,220	\$1,320	\$640
20	0	\$3,490	\$1,620	\$730
30	0	\$3,980	\$2,240	\$870
40	0	\$4,920	\$3,490	\$1,080
50	0	\$7,260	\$5,240	\$1,450
0	5	\$3,720	\$1,320	\$730
10	5	\$3,220	\$1,320	\$640
20	5	\$3,520	\$1,620	\$730
30	5	\$4,090	\$2,240	\$870
40	5	\$5,160	\$3,490	\$1,080
50	5	\$7,830	\$5,240	\$1,450
0	10	\$3,780	\$1,320	\$730
10	10	\$3,220	\$1,320	\$640
20	10	\$3,570	\$1,620	\$730
30	10	\$4,200	\$2,240	\$870
40	10	\$5,400	\$3,490	\$980
50	10	\$8,400	\$5,240	\$1,450
0	15	\$3,840	\$1,320	\$730
10	15	\$3,230	\$1,320	\$640
20	15	\$3,610	\$1,620	\$730
30	15	\$4,310	\$2,240	\$870
40	15	\$5,640	\$3,490	\$1,080
50	15	\$8,970	\$5,240	\$1,450
0	20	\$3,900	\$1,320	\$730
10	20	\$3,220	\$1,320	\$640
20	20	\$3,650	\$1,620	\$730
30	20	\$4,420	\$2,240	\$870
40	20	\$5,870	\$3,490	\$1,080
50	20	\$9,540	\$5,240	\$1,450

**Table T-1 (Continued)**  
**Montana**  
**Basic Temporary Road Costs**

<i>Side Slope %</i>	<i>R/W Vol/Ac</i>	<i>Temporary Road Clearing \$/mile</i>	<i>Excavation \$/mile</i>	<i>Seeding 12 ft w/o ditch \$/mile</i>
0	25	\$3,960	\$1,320	\$730
10	25	\$3,220	\$1,320	\$640
20	25	\$3,680	\$1,620	\$730
30	25	\$4,530	\$2,240	\$870
40	25	\$6,110	\$3,490	\$1,080
50	25	\$10,100	\$5,240	\$1,450
0	30	\$4,020	\$1,320	\$730
10	30	\$3,220	\$1,320	\$640
20	30	\$3,720	\$1,620	\$730
30	30	\$4,640	\$2,240	\$870
40	30	\$6,350	\$3,490	\$1,080
50	30	\$10,670	\$5,240	\$1,450
0	35	\$4,090	\$1,320	\$730
10	35	\$3,220	\$1,320	\$640
20	35	\$3,750	\$1,620	\$730
30	35	\$4,750	\$2,240	\$870
40	35	\$6,600	\$3,490	\$1,080
50	35	\$11,250	\$5,240	\$1,450
0	40	\$4,150	\$1,320	\$730
10	40	\$3,210	\$1,320	\$640
20	40	\$3,790	\$1,620	\$730
30	40	\$4,860	\$2,240	\$870
40	40	\$6,840	\$3,490	\$1,080
50	40	\$11,820	\$5,240	\$1,450
0	45	\$4,210	\$1,320	\$730
10	45	\$3,210	\$1,320	\$640
20	45	\$3,840	\$1,620	\$730
30	45	\$4,960	\$2,240	\$870
40	45	\$7,070	\$3,490	\$1,080
50	45	\$12,390	\$5,240	\$1,450
0	50	\$4,270	\$1,320	\$730
10	50	\$3,210	\$1,320	\$640
20	50	\$3,880	\$1,620	\$730
30	50	\$5,070	\$2,240	\$870
40	50	\$7,310	\$3,490	\$1,080
50	50	\$12,960	\$5,240	\$1,450

**Table T-2**  
**Culverts**

<i>Side Slope %</i>	<i>Diameter (Inches)</i>	<i>Length (Feet)</i>	<i>\$/ft</i>	<i>\$/culvert</i>
0	18	20	\$23.51	\$ 475.00
10	18	26	\$23.53	\$ 615.00
20	18	28	\$24.37	\$ 685.00
30	18	32	\$25.34	\$ 815.00
40	18	52	\$26.34	\$1,370.00
50	18	60	\$27.42	\$1,650.00
60	18	80	\$30.56	\$2,450.00
<i>Side Slope %</i>	<i>Diameter (Inches)</i>	<i>Length (Feet)</i>	<i>\$/ft</i>	<i>\$/culvert</i>
0	24	20	\$ 26.78	\$ 540.00
10	24	26	\$ 26.86	\$ 700.00
20	24	28	\$ 27.56	\$ 775.00
30	24	32	\$ 28.48	\$ 915.00
40	24	52	\$ 29.54	\$1,540.00
50	24	60	\$ 30.69	\$1,845.00
60	24	80	\$ 33.84	\$2,710.00

**Table T-3**  
**Obliteration of Temporary Roads**

<i>Description</i>	<i>Terrian</i>	<i>\$/Mile</i>
Surface scarification, outslope, revegetation	Gentle	\$625 - \$875
Scarification, CMP removal, outslope, waterbars, rounding of backslopes and revegetation	Moderate	\$1,060 - \$2615
	Steep	\$1550 - \$3300
CMP removal, recontouring, and revegetation	Gentle	\$2350 - \$4600
	Moderate to Steep	\$3,300 - \$6500

*Note: Davis-Bacon/Purchaser Wage Rate Adjustment has been made for above costs. Obliteration requirements are highly variable, ranging from surface scarification and water bar placement to complete recontouring and revegetation of the former roadway. Costs may increase due to difficult or unique conditions. Costs shown above based on small dozer, excavator and sawyer.*

**Table T-4**  
**Mobilization for Temporary Roads**

Idaho:	7.0%
Montana:	7.0%

# Temporary Road Cost Estimating

The following is an example form to be used when costing estimating for temporary roads.

## Cost Estimate Template for Temporary Roads

Sale Name _____	Made by _____
Unit or Road No. _____	Checked by _____
Reference: Cost estimating procedures for temporary roads from Cost Guide - pages _____	
Average Side Slope:	
Length: _____ ft. = _____ Miles	
Timber Volume: _____ MBF/Acre	
Drainage Structures: _____ Dips	
_____ 18" CMP, _____ 24" CMP	
<b>Note: Do not adjust project costs for inflation or deflation.</b>	
Step 1:	Clearing and Grubbing (Table T-1) = \$ _____ /Mile (1)
Step 2:	Excavation (Table T-1) = \$ _____ /Mile (2)
Step 3:	Seeding (Table T-1) = \$ _____ /Mile (3)
Step 4:	Obliteration (Table T-2) = \$ _____ /Mile (4)
Step 5:	Total Unit Cost = (1)+(2)+(3)+(4) = \$ _____ /Mile (5)
Step 6:	Basic Cost = Total (5) x Length = \$ _____ /Mile x _____ Mile(s) = \$ _____ (6)
Step 7:	Drainage Structures
	_____ dips x \$ _____ /Dip = \$ _____
	_____ 18" CMPs x \$ _____ /CMP = \$ _____
	_____ 24" CMPs x \$ _____ /CMP = \$ _____
	Drainage Cost Total = \$ _____ (7)
Step 8:	Subtotal = Basic Cost (6) + Drainage Cost (7) = \$ _____
	Mobilization = Subtotal x Mobilization% = \$ _____ x _____ % = \$ _____
	Subtotal + Mobilization = \$ _____ (8)
Step 9:	TOTAL COST = (8) / Profit = \$ _____ / 1.06 = \$ _____ (9)

*End of Temporary Road Cost Estimating*