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# TECHNICAL NOTE

Bureau of Land Management U.S. DEPARTMENT OF THE INTERIOR

Subjects: Mining Costs, Related Costs  
Construction Costs  
Equipment Costs

Reference: Portland Service Center Release 9-4, Logging, Transportation and Contractual Costs, Manual Supplement 9333.32, .33 and .34.

The subject reference was prepared for estimating costs associated with logging in Oregon. Nevertheless, it contains information and/or procedures for possible value in estimating costs associated with mineral development. For example:

9333.33 - Transportation Costs contains procedures for estimating truck transportation costs.

9333.34A - Contractual Costs (Road Construction) contains procedures and costs to be used for estimating road construction in both Western and Eastern Oregon, including:

- Engineering Costs
- Move-in Costs
- Grubbing and Clearing Costs
- Excavation Costs
- Culvert Costs
- Grading Costs
- Surfacing Costs
- Road Maintenance Costs

Appendix 1 gives investment costs, fixed costs, operating costs and total costs for various pieces of equipment including loaders, dozers, air compressors and rock drills, 3/4 cubic yard shovels, dump trucks and graders. It also gives total operation costs for some of this equipment.

NOTE: The figures and procedures in this release should be used with caution since they apply to a specific type of operation in a specific area and differ somewhat from those available elsewhere in Caterpillar's Fundamentals of Earthmoving and State Highway Department manuals (see previous technical note on this subject).



