

Facilities - Road and Bridge Construction and Reconstruction

Activities, Effects and Resources To Be Measured.

Road and Bridge construction and reconstruction page V-11.

Methods.

A road accomplishment report is filled out and sent to the regional office every year.

Location.

The road system is across the entire Forest.

Variation.

The variation that could cause further analysis is 5% of from projected quantities.

Results.

There were 23.3 miles of road reconstructed no new construction during FY04.

Interpretation.

The Forest plan predicted that construction and reconstruction through 1990 would consist of two miles of public works, 28 miles of timber development road, and 5 miles of oil and gas road, totaling 35 miles.

During FY04 16.1 miles were public works and 7.1 miles of timber development totaling 23.2 miles. Timber harvest is at about 25% of levels during the 1980's, which accounts for fewer miles constructed or reconstructed.

Monitoring Resources Available.

Yes

Recommendation.

Continue the road accomplishment report annually.

Facilities - Buildings

Activities, Effects and Resources To Be Measured.

Buildings

Methods.

Inspection Reports. Results and deferred maintenance are put into the Infra database. The schedule consists of all buildings (267) being inspected over a ten-year period.

Location.

Color Country Interagency Fire Center #0100, Inspected by Dave Plummer, February 12, 2004.

Red Canyon Visitor Center #0133, Inspected by Dave Plummer July 28, 2004.

Bear Valley Admin Site: Inspected by Dave Plummer, Buildings #0330, #0611A, #0222, (3 buildings), Bear Valley, August 2004.

Podunk Admin Site: #0237 Guard Station, old toilet, new toilet, (3 buildings) Inspected by Dave Plummer, 09/29/2004.

Jones Corral Admin Site: #0239, #0738, #0358, #0638B, (4 buildings), Inspected by Dave Plummer, Jones Corral Admin Site, September 29, 2004.

Cedar City Sign Shop, #0307, Inspected by Dave Plummer, 09/22/2004.

Cedar City Oil and Gas House, #0308, Inspected by Dave Plummer, 09/22/2004.

Cedar City Computer Storage: #0309, Inspected by Dave Plummer, August 04, 2004.

Escalante Oil Storage #0373, Inspected by Dave Plummer, 07/28/2004.

Clayton Guard Station, #0378, Old Toilet, New Toilet (3 buildings) Inspected by Nick Glidden, 09/25/2004.

Mammoth Road Lava Picnic Site Toilet: #0625C, Inspected by Dave Plummer, July 2004.

Daves Hollow Admin Site Toilet: #0639A, Inspected by Dave Plummer, 9/29/2004.

Panguitch Lake Campground Pumphouse #0728, Inspected by Dave Plummer, 06/09/2004.

White Bridge Campground Pumphouse, 0729, Inspected by Dave Plummer 06/21/2004.

Variation

Excessive deterioration of existing buildings is the variation that would cause further evaluation.

Results.

All but 15 buildings (seven of which are abandoned) have been inspected over the past ten years (94%). Inspections revealed buildings in various states of condition. Buildings in use are maintained to a reasonable standard, abandoned or unused buildings are not adequately maintained to prevent deterioration.

Interpretation.

Buildings that are in use and necessary are maintained to a reasonable standard. Buildings that are abandoned or low use are not. Adequate resources are available to maintain buildings that are being used; buildings that are not used are not maintained. If this trend continues, buildings that are not used will continue to deteriorate until they will have to be either renovated or demolished. This will be in accordance with the Facilities Master plan, which calls for most unused buildings to be disposed. The methods for determining deferred maintenance have changed such that data are not comparable from year to year. No additional evaluation is necessary.

Monitoring Resources Available.

Adequate funds and resources were available to accomplish the monitoring to the standards required.

Recommendation.

The monitoring is required by other direction, in addition to the Forest Plan. Monitoring should be continued at a rate of 20% of all buildings monitored per year to complete monitoring for all sites on a 5-year cycle.

Title of Monitoring Item

Dam Administration

Activities, Effects and Resources To Be Measured.

Dam Administration. Monitoring priority 1. Continue the annual inspection of dams according to the dam hazard classifications. The Forest Engineer will coordinate with the State Agency when they are making the inspections.

Methods.

Inspect dams according to schedule established for each hazard class.

Location.

All high hazard dams were inspected –per agreement – by the State of Utah with coordination of Forest Engineering Personnel. The following dams required inspection by the Forest according to the existing Memorandum of Understanding with the State of Utah, Division of Water Rights.

- | | | |
|-----------------|---------|--|
| 1. Chriss Lake | UT00155 | Facility is breached. Annual inspection not required. |
| 2. Calf Springs | UT00347 | Inspected on 9/27/04 by forest. Follow-up inspection by State of Utah on 11/09/04. |
| 3. Robinson | UT00522 | Inspected on 7/13/04 by Forest Engineer. |
| 4. Jepsin, Neal | UT00611 | Facility is breached. Annual inspection not required. |
| 5. Aspen Mirror | UT00023 | Inspected on 7/14/04 by Forest Engineer. |

Variation.

Administrative failure to followup on unsafe dams.

Results.

All inspections accomplished according to established State and Federal regulations. Followup inspection of Calf Springs will require accomplishment of maintenance activities by permittee or storage restriction until maintenance is accomplished. Meeting with Permittee is in progress.

Interpretation.

Results are in compliance with the variation statement.

Monitoring Resources Available.

Forest owned dams (Pine Valley, Flat, Robs, and Pine Creek) continue to be under-funded, and in need of heavy maintenance and /or reconstruction.

Recommendation.

Monitoring is required by State and Federal regulations. Frequency of monitoring inspections is established by Manual Direction and Memorandum of Understanding with State of Utah.

Facilities - Public Drinking Water

Activities, Effects and Resources To Be Measured.

Compliance with Utah Public Drinking Water Regulations

Methods.

All systems (see below) are monitored monthly for bacteria in accordance with FS guidelines. Systems are also monitored for bacteria on a 3-month quarterly schedule and the results are reported to the State of Utah in accordance with state law. Additional tests for nitrate are performed yearly, and tests for sulfate are performed approximately every 7 years.

Locations:

Pine Valley R.D.

Honeycomb Deep Well
Juniper Park
Oak Grove
Fourmile Bench

Cedar City Ranger District

Duck Creek Spring
Duck Creek Well
White Bridge Well
Panguitch Lake Well
Deer Haven
Vermillion Castle
Cedar Canyon
Navajo Lake & Spruces
TeAh
Boy Scout Spring
Yankee Meadow

Powell Ranger District

Dave's Hollow
Podunk
Jone's Corral
Red Canyon
Tropic Roadside Spring
Kings Creek
Escalante Ranger District
Posey Lake
Blue Spruce-Cowpuncher
Pine Lake
Barker Reservoir

Teasdale Ranger District

Wildcat
Aquarius Spring #2
Single Tree
Pleasant-Oak Creek

Variation.

Violation of primary maximum contaminant levels (MCL) is variation that would cause further evaluation.

Results.

All drinking water systems on the Dixie National Forest have been monitored in accordance with State and Federal standards in 2004. One outstanding State violation for missing the required quarterly monitoring occurred at Blue Spruce Campground. It is believed that this violation was the result of a paperwork error, as the district performed the monitoring. Follow-up action is being taken to address this violation.

All nitrate and sulfate monitoring returned acceptable results. Some positive bacterial samples were detected, but follow-up testing done in accordance with State and Federal standards was performed. With the required follow-up testing, all systems have had acceptable bacterial water quality test results, and have an approved status with the State.

Interpretation.

The water systems are not violating MCL levels.

Monitoring Resources Available.

Adequate funds and resources were available to accomplish the monitoring to the standards required.

Recommendation.

The monitoring is required by other direction, in addition to the Forest Plan. Monitoring should be continued at the current rate, as required by State and Federal standards.

Facilities - Road Management

Activities, Effects and Resources To Be Measured.

Road Condition Surveys, page V-11.

Methods.

All condition surveys are done in accordance to protocols established by the regional office and the Washington Office. This protocol consists of 100% of the level 3-5 roads will have a condition survey every 5 years, or 20% a year. A 2% random sample will be done every other year.

Location.

The road system is located within the boundaries of the Dixie National Forest.

Variation.

5% downward trend in the condition of existing roads.

Results.

During 2004 100% of the level 3-5 roads condition surveys were completed for this cycle. All the bridges on the Forest were inspected.

The random sample was completed this year. Condition surveys were conducted on a 2% random sample of the level 1-2 roads.

Capital improvements to existing roads in FY04 totaled 8.7 miles. Deferred maintenance accomplished totaled 14.6 miles. Roads on the forest receiving maintenance equaled 23% of all forest roads, and 81% are meeting road management objectives (RMOs).

Table 1. Miles of road in each Maintenance Level, that received appropriate maintenance and that meet road management objectives (RMOs) at the end of year.

| <i>Maintenance Level</i> | Total Miles | Miles Receiving Appropriate Maintenance | Miles meeting RMOs |
|--------------------------|--------------------|--|---------------------------|
| Maintenance Level 1 | 377.05 | 10 | 370 |
| Maintenance Level 2 | 2,385.48 | 315 | 1,950 |
| Maintenance Level 3 | 595.90 | 405 | 430 |
| Maintenance Level 4 | 94.46 | 40 | 40 |
| Maintenance Level 5 | 16.46 | 16 | 14.8 |
| Total Miles | 3,469.35 | 786 | 2,804.8 |

The total inventoried mileage on the Forest equals 4,723.1, which increased 311.8 miles over the previous year. As shown below, this increase was due to unclassified roads identified during the year and adjustments to the inventory, not from new mileage on the ground.

Table 2. Road mileage summary for system roads for fiscal year 2004.

| | |
|--|---------|
| Miles at start of fiscal year | 3,436.5 |
| Miles added to the system from unclassified road (+) | 1.0 |
| New construction (+) | 0 |
| Miles road decommissioned (-) | -32.1 |
| Adjustments to inventory (+ or -) | 64 |
| Miles at end of the FY | 3,469.4 |

Table 3. Road mileage summary for unclassified roads for fiscal year 2004.

| | |
|---|---------|
| Miles at start of fiscal year | 909 |
| Miles identified during the Fiscal year (+) | 345.2 |
| Unclassified road miles moved to the system | 1.0 |
| Miles road decommissioned (-) | 0 |
| Adjustments to inventory (+ or -) | 0 |
| Miles at end of the FY | 1,253.7 |

Interpretation.

The first time a complete condition survey of all the level 3-5 roads was accomplished was in 1999. We finished the second cycle this year but no comparison can be made because methods used in each was different and it won't be until the next cycle is complete when a comparison can be made.

Monitoring Resources Available.

Yes.

Recommendation.

Continue on the inspection schedule but only report at the end of each cycle.

Facilities - Road and Bridge Construction and Reconstruction

Activities, Effects and Resources To Be Measured.

Road and Bridges constructed or reconstructed, Page V-11.

Methods.

A road accomplishment report is filled out and sent to the regional office every year.

Location.

The road system is across the entire Forest.

Variation.

The variation that could cause further analysis is 5% of from projected quantities.

Results.

There were 23.3 miles of road reconstructed no new construction during FY04.

Interpretation.

The Forest plan predicted that construction and reconstruction through 1990 would consist of two miles of public works, 28 miles of timber development road, and 5 miles of oil and gas road, totaling 35 miles.

During FY04 16.1 miles were public works and 7.1 miles of timber development totaling 23.2 miles. Timber harvest is at about 25% of levels during the 1980's, which accounts for fewer miles constructed or reconstructed.

Monitoring Resources Available.

Yes

Recommendation.

Continue the road accomplishment report annually.

Prepared by Bryant Sorenson, 19 November 2004.