



Tulare Irrigation District Operation & Maintenance Report



2012 Quarter 1

Prepared By:
Aaron Fukuda & Gene Bessinger
March 31, 2012

District Safety Program

The District Superintendent continues to conduct a series of Tail-Gate safety meetings during the week to keep employees mindful of safety precautions and the proper operation of equipment. The following safety meetings were conducted by the District Superintendent:

- Trench Safety (Conducted by ACWA JPIA)
- Traffic Flagging Safety (Conducted by ACWA JPIA)
- CPR and First Aid Training (Conducted by Jorgensen Company)
- Heat Stress and Safety
- Code of Safe Practices Review
- Basic District Rules
- Flying Debris and Neatness
- Genie Lift Safety
- Chainsaw Safety

Maintenance Operations

Under the direction of Wayne Fox, District Superintendent, staff addressed maintenance concerns throughout the District.

The major maintenance projects include:

- Continued tree trimming on District canals and ditches.
- Dredged the running cell at Anderson Basin (South Cell). Material was stockpiled on banks.
- Replaced collapsed corrugated metal culvert pipe on Northwest Ditch west of Road 36.
- Moved existing culvert pipe and riser from the Cate Ditch to the Liberty Ditch to alleviate restrictions in flow. Flows in the Cate Ditch were too high for the riser installation, and is more suitable for the Liberty Ditch (lower flows). District staff replaced the riser on Cate Ditch with a new concrete pipe crossing and structure.
- Repaired wash-in on Main Canal with material from Swall Basin.
- General repair of weirs and handrails around District facilities.
- Modification of Liberty Ditch check structure downstream of Cordeniz Basin to improve water operations.
- Cleanup of rock piles at Creamline Basin.
- Discing of basins with new John Deere tractor.
- Reconstruction and realignment of Evans Ditch at Avenue 260.
- Installation of a test meter gate at Cordeniz Basin.

Vehicle Maintenance Program

The Vehicle Maintenance staff (VM Staff) has been busy maintaining and repairing construction and maintenance equipment. The maintenance issues that have been addressed include:

- Routine 2,000 hour service on the excavator.
- Routing 2,500 hour service on the John Deere 9630.
- Repair of the brakes on the flatbed truck.
- Identify and repair hydraulic leaks on Champion Grader in preparation for next year.

Herbicide Application Program

The Herbicide Application Staff (Herbicide Staff) has been working on applying herbicide chemicals to District canal embankments. During the dry season the department consists of two employees.

The following chemicals were used at the specified rates:

| Chemical | Rate | Units |
|-----------------|-------------|--------------|
| Finale | 20 | Gallons |
| Milestone | 75 | Ounces |
| Reward | 1,160 | Quart |
| Roundup | 902 | Gallons |

Construction Projects

The District construction staff under the direction of Mr. Fox has been working on the following projects:

Swall Basin

- Installation of the inlet structure from Cell #3 to Cell #1.
- Installation of SCADA equipment including gate actuator, vandal enclosure, conduit, wiring and sensors.

Pictures



Inlet structure from Cell #3 to Cell #1 at Swall Basin.



Recharge basin maintenance – basin discing utilizing new John Deere tractor.



Installation of test gate for Waterman Industries on Liberty Ditch at the Cordeniz Basin (lease ground).



Pouring floor of long-crested weir at Cate Ditch.



Shop fabrication of long-crested weir decking.



Excavation and compaction of Evans Ditch at Avenue 260. Canal realignment and rehabilitation project.



Installation of long-crested weir decking at Cate Ditch.



Installation of Mooney Grove basin turnout.



Loader test trial.