Maintenance Management Systems

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What is Maintenance Management?

The ability to allocate resources according to the work plan.

Plan your work, work your plan.
Why have a Maintenance Management System?

INDOT is responsible for over 11,000 miles of roadway, this includes total feature Inventory of Subdistricts, Toll Road Maintenance Units, and Traffic Districts.
INDOT's Maintenance Management System

- Gives the ability to manage resources (Labor, Equipment, and Material)
- Gives method for tracking work performed
- Gives cost of work per road segment
- Allows managers to place priorities on specific maintenance tasks
- Plan and evaluate Resource usage
- Plan and evaluate Work Performance
Example of Maintenance Management

INDOT Activity 2440, Flushing Bridges

(Flush drains, expansion joints, seat and shoe assemblies, gutter lines, and Truss assembly if applicable)

- Recommendation from INDOT's Central Office is 100% of all cleanable bridges
- Each Maintenance Subdistrict plans to accomplish 100% at the start of the year
Example - Tracking Activity 2440, Flushing Bridges

Fowler Subdistrict
- has 75 cleanable bridges
- plans to accomplish 100%
- Planned accomplish 25 bridges per month for March, April, May

Bridge flushing should be scheduled in late Spring, after the winter weather season.
INDOT’s Work Management System

### Interactive Workload Distribution

**Workload Distribution**

**Fiscal Year: 2001**

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| Total Person Days | 10,488.5 | 930.6 | 920.0 | 771.6 | 780.2 | 772.2 | 1,029.4 | 850.2 | 913.0 | 995.7 | 763.5 | 809.0 | 953.1 |
| Avail Person Days | 10,110.0 | 882.0 | 902.0 | 840.0 | 800.0 | 720.0 | 840.0 | 800.0 | 840.0 | 920.0 | 760.0 | 882.0 | 924.0 |
| Difference        | 378.5 | 48.6 | 18.0 | -68.4 | -19.8 | 52.2 | 189.4 | 50.2 | 73.0 | 75.7 | 3.5 | -73.0 | 29.1 |
| Estimated Staff   | 44.3 | 41.8 | 36.7 | 39.0 | 42.9 | 49.0 | 42.5 | 43.5 | 43.3 | 40.2 | 38.5 | 43.3 |
Reports

- Monthly Reports helps track progress throughout INDOT
- Managers can generate reports for Equipment, Labor, Material usage, Activity cost, Location Maintenance Cost, and many more
- Reports keeps all parties informed as to the status work performed
Conclusion

- The Maintenance Management System is a tool to plan and evaluate Equipment, Labor, and Materials.
- The “Plan the Work, Work the Plan” method helps ensure the Equipment, Labor, and Material are available when needed to perform the work.
- Work is scheduled in advance. Users can anticipate the emergency work when planning using historical statistics as a guide.