

Module 4-15

Identification of Feasible Alternatives

Objectives

Recognize importance of framework

Analyze project information and develop feasible alternatives

Describe decision trees and charts

Describe limitations of strict use of a decision tree

Decision Systems

Network level

Project level

This course only addresses project level decisions

Selection Process

Collect project information

Evaluate pavement condition

Identify and select feasible alternatives

Develop designs for alternatives

Determination of Feasible Alternatives

Each project is unique

Must address all problems together

Available tools

- Pavement management systems
- Knowledge-based systems

No substitute for experience

Decision Tree

Helps determine realistic approaches

Can be extremely complex

Refer to figures 4-15.2, 4-15.3 and table 4-15.2

Decision Table

Helps determine realistic approaches

Presents information in clearer manner than a decision tree

Refer to table 4-15.3

Limitations

Need to be continually updated

Should be considered design aids, not rules

Engineering judgment is required

Summary

Selection tools

- **Matching distress to treatment**
- **Decision tree**
- **Decision table**

Engineering judgment is essential

Must consider all factors together