

DEPARTMENT: Public Works By: Clay Castleberry

PHONE: 966-5356

RECOMMENDED ACTION AND JUSTIFICATION

Adopt the Mariposa County Pavement Management System as described in Attachment 1.

Section 2108.1 of the Streets and Highways Code requires that all entities with a project in the STIP or who use Federal Highway funds have a pavement management system which must be adopted by the agency.

A pavement management system is a rational means of judging how streets or roads should be maintained. The attached is a simple manual system that ranks segments of our roads and that will aid in making recommendations. The final decision on projects will still be made by the Board of Supervisors.

BACKGROUND AND HISTORY OF BOARD ACTIONS:

No previous action

LIST ALTERNATIVES AND CONSEQUENCES OF NEGATIVE ACTION:

More complicated pavement management systems can be adopted eventually, however, this system will help County road staff formalize current road maintenance evaluation.


COSTS: ( ) Not Applicable		SPECIAL INSTRUCTIONS:
A. Budgeted current FY	\$ **	List the attachments and number the pages consecutively:
B. Total anticipated costs	\$	
C. Required Add'l funding	\$ 0	
Source: _____		1. <u>Mariposa County Pavement Management System-policy</u>
Source: _____		2. <u>Asphalt Pavement Rating Form</u>
SOURCE: ( ) 4/5ths Vote Required		3. <u>Interpreting the Condition Rating</u>
A. Internal Transfers	\$ _____	** <u>this work is being done as part of the transportation planning work program.</u>
B. Unanticipated revenues	\$ _____	
C. Reserve for contingency	\$ _____	
D. Description: _____		
Balance in Reserve for Contingencies, if approved: \$ _____		

CLERK'S USE ONLY:  
 Res. No.: 90-540  
 Ord. No.: \_\_\_\_\_  
 Vote - Ayes: 5 Noes: \_\_\_\_\_  
 Absent: \_\_\_\_\_ Abstained: \_\_\_\_\_  
 Approved ( ) Denied  
 ( ) Minute Order Attached

ADMINISTRATIVE OFFICER'S RECOMMENDATION:  
 This item on agenda as:  
 Recommended  
 Not Recommended  
 For Policy Determination  
 Submitted with Comment  
 Returned for Further Action

The foregoing instrument is a correct copy of the original on file in this office.

Date: \_\_\_\_\_  
 ATTEST: MARGIE WILLIAMS  
 Clerk of the Board of Supervisors  
 County of Mariposa, State of CA  
 By: \_\_\_\_\_  
 Deputy

Comment: \_\_\_\_\_  
 \_\_\_\_\_  
 A.O. Initials: 

MARIPOSA COUNTY  
PAVEMENT MANAGEMENT SYSTEM

Policy for evaluation of pavements:

1. County will use modified Asphalt Institute rating sheet, Exhibit A, attached to evaluate each mile or portion of mile of paved road.
2. The County will first evaluate all paved Collector and Arterial roads. The remainder of the paved road mileage (local streets) will be evaluated after the needs of the major roads have been identified.
3. The County will evaluate the pavements once every 2 years.
4. The County will use a ranking system similar to Exhibit B to guide the choice of maintenance/rehabilitation to be performed on the road. Actual choice of treatment will also depend on other factors, such as need to realign the road, safety considerations, etc.
5. Based upon the pavement evaluation, the County will determine the current and following two years budget needs for pavement maintenance and repair.

MARIPOSA COUNTY DEPARTMENT OF PUBLIC WORKS

ASPHALT PAVEMENT RATING FORM

ROAD: \_\_\_\_\_ MAINT.DISTRICT: \_\_\_\_\_  
 SECTION LOC: \_\_\_\_\_ ROADSHED: \_\_\_\_\_  
 POSTMILES: \_\_\_\_\_ DATE: \_\_\_\_\_  
 COMMENTS: \_\_\_\_\_

(NOTE: A rating of "0" indicates defect does not occur)

DEFECTS	RATING
Transverse Cracks.....	0-5 _____
Longitudinal Cracks.....	0-5 _____
Alligator Cracks.....	0-10 _____
Shrinkage Cracks.....	0-5 _____
Edge Cracks.....	0-10 _____
Corrugations.....	0-5 _____
Raveling.....	0-5 _____
Shoving or Pushing.....	0-10 _____
Pot Holes/Patches.....	0-10 _____
Rutting.....	0-10 _____
Ground Squirrel <sup>ns</sup> <del>Transverse</del> Ruts.....	0-5 _____
Deficient Drainage/Bleeding (where occurs).....	0-10 _____
Overall Riding Quality (0 is excellent: 10 is very poor).....	0-10 _____
Sum of Defects	_____

Condition Rating = 100 - Sum of Defects  
 = 100 - \_\_\_\_\_

Condition Rating =

Pavement Type: \_\_\_\_\_

additional comments:

MARIPOSA COUNTY DEPARTMENT OF PUBLIC WORKS

ASPHALT PAVEMENT RATING FORM

ROAD: \_\_\_\_\_  
 SECTION LOC: \_\_\_\_\_  
 POSTMILES: \_\_\_\_\_  
 COMMENTS: \_\_\_\_\_

MAINT. DISTRICT: \_\_\_\_\_  
 ROADSHED: \_\_\_\_\_  
 DATE: \_\_\_\_\_

(NOTE: A rating of "0" indicates defect does not occur)

DEFECTS		RATING
Transverse Cracks.....	0-5	_____
Longitudinal Cracks.....	0-5	_____
Alligator Cracks.....	0-10	_____
Shrinkage Cracks.....	0-5	_____
Edge Cracks.....	0-10	_____
Corrugations.....	0-5	_____
Raveling.....	0-5	_____
Shoving or Pushing.....	0-10	_____
Pot Holes/Patches.....	0-10	_____
Rutting.....	0-10	_____
Ground Squirrel <sup>ns</sup> <del>Trans</del> verse Ruts.....	0-5	_____
Deficient Drainage/Bleeding (where occurs).....	0-10	_____
Overall Riding Quality (0 is excellent: 10 is very poor).....	0-10	_____
	Sum of Defects	_____

Condition Rating = 100 - Sum of Defects  
 = 100 - \_\_\_\_\_

Condition Rating =

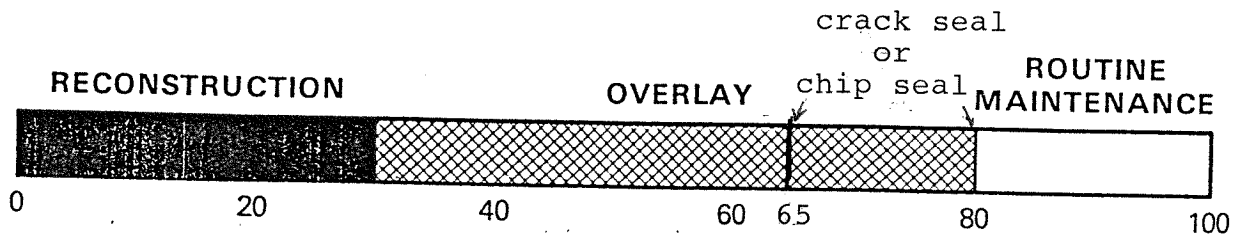
Pavement Type: \_\_\_\_\_

additional comments:

## INTERPRETING THE CONDITION RATING

There are two ways that the condition rating can be used. First, as a relative measurement, it provides a rational method for ranking roads and streets according to their condition.

Secondly, as an absolute measure, the condition rating provides a general indicator of the type and degree of repair work necessary. As a very general rule, if the condition rating is between 80 and 100, normal maintenance operations such as crack-filling, pot hole repair, or perhaps a seal coat are usually all that is required. If the condition rating falls below 80, it is likely that an overlay will be necessary. In this event, it may be advisable to contact the nearest Asphalt Institute or other similarly qualified engineer for assistance. If the condition rating is below 30, chances are that major reconstruction is necessary; this is illustrated in Figure 2.



CONDITION RATING AS A GENERAL INDICATOR  
OF TYPE OF MAINTENANCE

Figure 2.