

# 2023 State of the Pavement Report

**Division of Maintenance  
Pavement Program  
July 2025**



This report is prepared by the California Department of Transportation, Division of Maintenance, Office of Pavement Management, and the Office of Pavement Programming.

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TABLE OF CONTENTS

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**TABLE OF CONTENTS** ..... I

**LIST OF TABLES** ..... III

**LIST OF FIGURES** ..... V

**EXECUTIVE SUMMARY** ..... VI

**STATE HIGHWAY SYSTEM** ..... 1

**PAVEMENT CONDITION MONITORING AND MANAGEMENT** ..... 4

    Pavement Condition Monitoring ..... 4

    Pavement Management System ..... 4

**FEDERAL PAVEMENT PERFORMANCE MEASURES** ..... 6

    Pavement Condition Statewide ..... 7

        Overall Pavement Condition ..... 7

        Condition by Pavement Type ..... 7

        Condition by Roadway Class ..... 8

        Condition by Highway Type ..... 9

    Pavement Condition by District ..... 9

**CALTRANS PAVEMENT RATING SYSTEM** ..... 11

    Pavement Condition Statewide ..... 15

        Overall Pavement Condition ..... 15

        Condition by Pavement Type ..... 16

        Pavement Condition by Roadway Class ..... 16

        Pavement Condition by Highway Type ..... 17

    Pavement Condition by District ..... 18

**PAVEMENT ROUGHNESS** ..... 20

    Pavement Roughness Statewide ..... 20

**PAVEMENT TREATMENT STRATEGIES** ..... 23

**PAVEMENT EXPENDITURES AND FINANCIAL PLAN** ..... 25

**APPENDIX A – CALTRANS DISTRICT BOUNDARY MAP** ..... 32

**APPENDIX B – 2023 PAVEMENT CONDITION BY DISTRICT AND ROADWAY CLASSIFICATION, BASED ON FEDERAL PAVEMENT PERFORMANCE MEASURES** . 33

**APPENDIX C – 2022 PAVEMENT CONDITION BY DISTRICT AND ROADWAY CLASSIFICATION, BASED ON FEDERAL PAVEMENT PERFORMANCE MEASURES** . 34

**APPENDIX D – 2023 PAVEMENT CONDITION BY DISTRICT AND ROADWAY CLASSIFICATION, BASED ON CALTRANS PAVEMENT RATING SYSTEM** ..... 35

**APPENDIX E – 2022 PAVEMENT CONDITION BY DISTRICT AND ROADWAY CLASSIFICATION, BASED ON CALTRANS PAVEMENT RATING SYSTEM** ..... 36

**APPENDIX F – 2023 I.R.I. DISTRIBUTION BY DISTRICT AND HIGHWAY TYPE ..... 37**

**APPENDIX G – 2022 I.R.I. DISTRIBUTION BY DISTRICT AND HIGHWAY TYPE ..... 39**

**APPENDIX H – H.M.1 MAINTENANCE STRATEGY COST PER LANE-MILE AND LANE-  
MILES TREATED FOR F.Y. 2022/23 THROUGH F.Y. 2023/24..... 41**

**APPENDIX I – S.H.O.P.P. - C.A.P.M. STRATEGY COST PER LANE-MILE AND LANE-  
MILES TREATED FOR F.Y. 2022/23 THROUGH F.Y. 2023/24..... 42**

**APPENDIX J – S.H.O.P.P. - REHABILITATION STRATEGY COST PER LANE-MILE AND  
LANE-MILES TREATED FOR F.Y. 2022/23 THROUGH F.Y. 2023/24 ..... 43**

**APPENDIX K – 2023 PAVEMENT CONDITION BY DISTRICT, PAVEMENT TYPE, AND  
ROADWAY CLASSIFICATION, BASED ON FEDERAL PAVEMENT PERFORMANCE  
MEASURES ..... 44**

**APPENDIX L – 2022 PAVEMENT CONDITION BY DISTRICT, PAVEMENT TYPE, AND  
ROADWAY CLASSIFICATION, BASED ON FEDERAL PAVEMENT PERFORMANCE  
MEASURES ..... 45**

**APPENDIX M – 2023 PAVEMENT CONDITION BY DISTRICT, PAVEMENT TYPE, AND  
ROADWAY CLASSIFICATION, BASED ON CALTRANS PAVEMENT RATING SYSTEM  
..... 46**

**APPENDIX N – 2022 PAVEMENT CONDITION BY DISTRICT, PAVEMENT TYPE, AND  
ROADWAY CLASSIFICATION, BASED ON CALTRANS PAVEMENT RATING SYSTEM  
..... 47**

## LIST OF TABLES

---

TABLE 1. STATEWIDE PAVEMENT CONDITION SUMMARY BY ROADWAY CLASSIFICATION, BASED ON FEDERAL PERFORMANCE MEASURES .....	VII
TABLE 2. STATEWIDE PAVEMENT CONDITION SUMMARY BY ROADWAY CLASSIFICATION, BASED ON CALTRANS RATING SYSTEM.....	VII
TABLE 3. AWARDED PAVEMENT IMPROVEMENTS CAPITAL COSTS AND LANE-MILES FROM F.Y. 2022/23 TO F.Y. 2023/24.....	VIII
TABLE 4. STATEWIDE LANE-MILES OF A.P.C.S. DATA COLLECTED BY PAVEMENT TYPE.....	1
TABLE 5. STATEWIDE LANE-MILES OF A.P.C.S. DATA COLLECTED BY ROADWAY CLASSIFICATION.....	2
TABLE 6. STATEWIDE LANE-MILES OF A.P.C.S. DATA COLLECTED BY HIGHWAY TYPE .....	2
TABLE 7. STATEWIDE LANE-MILES OF A.P.C.S. DATA COLLECTED BY DISTRICT.....	3
TABLE 8. FEDERAL PAVEMENT PERFORMANCE METRICS AND MEASURES CRITERIA	6
TABLE 9. STATEWIDE PAVEMENT PERFORMANCE TARGETS FOR EACH ROADWAY CLASSIFICATION AND FEDERAL PERFORMANCE MEASURE .....	7
TABLE 10. STATEWIDE PAVEMENT CONDITION SUMMARY BASED ON FEDERAL PERFORMANCE MEASURES .....	7
TABLE 11. STATEWIDE PAVEMENT CONDITION SUMMARY BY PAVEMENT TYPE, BASED ON FEDERAL PERFORMANCE MEASURES.....	8
TABLE 12. STATEWIDE PAVEMENT CONDITION SUMMARY BY ROADWAY CLASSIFICATION, BASED ON FEDERAL PERFORMANCE MEASURES.....	8
TABLE 13. STATEWIDE PAVEMENT CONDITION SUMMARY BY HIGHWAY TYPE, BASED ON FEDERAL PERFORMANCE MEASURES.....	9
TABLE 14. STATEWIDE PAVEMENT CONDITION SUMMARY BY DISTRICT, BASED ON FEDERAL PERFORMANCE MEASURES .....	10
TABLE 15. CALTRANS CONDITION RATING PRIORITY MATRIX FOR ASPHALT PAVEMENT.....	13
TABLE 16. CALTRANS CONDITION RATING PRIORITY MATRIX FOR JOINTED PLAIN CONCRETE PAVEMENT.....	14
TABLE 17. STATEWIDE PAVEMENT CONDITION SUMMARY BASED ON CALTRANS RATING SYSTEM .....	15
TABLE 18. STATEWIDE PAVEMENT CONDITION SUMMARY BY PAVEMENT TYPE, BASED ON CALTRANS RATING SYSTEM .....	16
TABLE 19. STATEWIDE PAVEMENT CONDITION SUMMARY BY ROADWAY CLASSIFICATION, BASED ON CALTRANS RATING SYSTEM.....	17
TABLE 20. STATEWIDE PAVEMENT CONDITION SUMMARY BY HIGHWAY TYPE, BASED ON CALTRANS RATING SYSTEM .....	18
TABLE 21. STATEWIDE PAVEMENT CONDITION SUMMARY BY DISTRICT, BASED ON CALTRANS RATING SYSTEM .....	19
TABLE 22. AVERAGE COST PER LANE-MILE FOR DIFFERENT FUNDING PROGRAMS FROM F.Y. 2022/23 THROUGH F.Y. 2023/24.....	24

TABLE 23. AWARDED PAVEMENT IMPROVEMENTS CAPITAL COSTS AND LANE-MILES FROM F.Y. 2022/23 TO F.Y. 2023/24.....	25
TABLE 24. 2023 PAVEMENT CONDITION BY DISTRICT AND ROADWAY CLASSIFICATION, BASED ON FEDERAL PAVEMENT PERFORMANCE MEASURES.....	33
TABLE 25. 2022 PAVEMENT CONDITION BY DISTRICT AND ROADWAY CLASSIFICATION, BASED ON FEDERAL PAVEMENT PERFORMANCE MEASURES.....	34
TABLE 26. 2023 PAVEMENT CONDITION BY DISTRICT AND ROADWAY CLASSIFICATION, BASED ON CALTRANS PAVEMENT RATING SYSTEM .....	35
TABLE 27. 2022 PAVEMENT CONDITION BY DISTRICT AND ROADWAY CLASSIFICATION, BASED ON CALTRANS PAVEMENT RATING SYSTEM .....	36
TABLE 28. 2023 N.H.S. INTERSTATE I.R.I.....	37
TABLE 29. 2023 N.H.S. NON-INTERSTATE I.R.I.....	37
TABLE 30. 2023 NON-N.H.S. I.R.I. ....	38
TABLE 31. 2022 N.H.S. INTERSTATE I.R.I.....	39
TABLE 32. 2022 N.H.S. NON-INTERSTATE I.R.I.....	39
TABLE 33. 2022 NON-N.H.S. I.R.I. ....	40
TABLE 34. H.M.1 MAINTENANCE STRATEGY COST PER LANE-MILE .....	41
TABLE 35. H.M.1 MAINTENANCE STRATEGY LANE-MILES TREATED.....	41
TABLE 36. C.A.P.M. STRATEGY COST PER LANE-MILE.....	42
TABLE 37. C.A.P.M. STRATEGY LANE-MILES TREATED .....	42
TABLE 38. REHABILITATION STRATEGY COST PER LANE-MILE.....	43
TABLE 39. REHABILITATION STRATEGY LANE-MILES TREATED .....	43
TABLE 40. 2023 PAVEMENT CONDITION BY DISTRICT, PAVEMENT TYPE, AND ROADWAY CLASSIFICATION, BASED ON FEDERAL PAVEMENT PERFORMANCE MEASURES .....	44
TABLE 41. 2022 PAVEMENT CONDITION BY DISTRICT, PAVEMENT TYPE, AND ROADWAY CLASSIFICATION, BASED ON FEDERAL PAVEMENT PERFORMANCE MEASURES .....	45
TABLE 42. 2023 PAVEMENT CONDITION BY DISTRICT, PAVEMENT TYPE, AND ROADWAY CLASSIFICATION, BASED ON CALTRANS PAVEMENT RATING SYSTEMASED ON FEDERAL PAVEMENT PERFORMANCE MEASURES.....	46
TABLE 43. 2022 PAVEMENT CONDITION BY DISTRICT, PAVEMENT TYPE, AND ROADWAY CLASSIFICATION, BASED ON CALTRANS PAVEMENT RATING SYSTEMASED ON FEDERAL PAVEMENT PERFORMANCE MEASURES.....	47

## LIST OF FIGURES

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FIGURE 1. A.P.C.S. VEHICLE ON THE ROAD AND MANUAL PAVEMENT INSPECTION .....	4
FIGURE 2. EXAMPLES OF PAVEMENT CONDITION BASED ON CALTRANS RATING SYSTEM .....	12
FIGURE 3. EXAMPLES OF DISTRESS FOR ASPHALT PAVEMENT .....	13
FIGURE 4. EXAMPLES OF DISTRESS FOR CONCRETE PAVEMENT .....	15
FIGURE 5. STATEWIDE I.R.I. DISTRIBUTION PERCENTAGE .....	20
FIGURE 6. STATEWIDE I.R.I. DISTRIBUTION PERCENTAGE BY HIGHWAY TYPE .....	21
FIGURE 7. 2023 STATEWIDE I.R.I. DISTRIBUTION PERCENTAGE BY DISTRICT .....	22
FIGURE 8. ILLUSTRATION OF COST EFFECTIVENESS OF PAVEMENT STRATEGIES.....	23
FIGURE 9. AWARDED PAVEMENT IMPROVEMENTS CAPITAL COSTS AND LANE-MILES FROM F.Y. 2022/23 TO F.Y. 2023/24.....	26
FIGURE 10. F.Y. 2022/23 H.M.1 PREVENTIVE AND CORRECTIVE MAINTENANCE STRATEGIES .....	27
FIGURE 11. F.Y. 2022/23 C.A.P.M. STRATEGIES .....	27
FIGURE 12. F.Y. 2022/23 MAJOR REHABILITATION STRATEGIES .....	28
FIGURE 13. F.Y. 2023/24 H.M.1 PREVENTIVE AND CORRECTIVE MAINTENANCE STRATEGIES .....	29
FIGURE 14. F.Y. 2023/24 C.A.P.M. STRATEGIES .....	29
FIGURE 15. F.Y. 2023/24 MAJOR REHABILITATION STRATEGIES .....	30
FIGURE 16. FINANCIAL PLAN FOR PAVEMENT IMPROVEMENTS .....	31

## EXECUTIVE SUMMARY

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As the steward of the State Highway System (S.H.S.), the California Department of Transportation (Caltrans) is responsible for maintaining over 50,000 lane-miles of pavement along more than 255 state and interstate highways. The State of the Pavement Report presents the latest pavement condition of the S.H.S., recent pavement project expenditures, and financial plan for future pavement improvements.

Caltrans conducts an automated pavement condition survey (A.P.C.S.) to collect pavement data at highway speeds for all lanes along the S.H.S. A.P.C.S. vehicles are equipped with various on-board equipment, high-definition cameras, and laser sensors to collect pavement images and pavement surface profiles. Pavement conditions are reported for every 0.1-mile.

The 2023 State of the Pavement Report is based on the A.P.C.S. data collected in the 2023 calendar year. The difference in the total lane-miles collected between 2023 compared to 2022 may be attributed to right-of-way relinquishments, new roadway pavement segments, new roadway re-alignments, or pavement locations where conditions could not be collected such as roadway closures for construction activities. The report presents pavement conditions in accordance with two analysis methodologies:

- 1) The National Highway Performance Program's (N.H.P.P.) pavement performance measures codified under Title 23, Code of Federal Regulations, Part 490, Subpart C (23 C.F.R. 490, Subpart C)
- 2) The Caltrans pavement rating system.

The N.H.P.P. measures pavement performance as *Good*, *Fair*, and *Poor* based on an assessment of several distress metrics combined. Table 1 presents the 2022 and 2023 statewide pavement conditions by roadway classification, based on federal performance measures. The percentage of *Good* pavement increased for all Class 1, Class 2 and Class 3 in 2023 compared to 2022. The percentage of *Fair* pavement decreased for all Class 1, Class 2 and Class 3. The percentage of *Poor* pavement increased for Class 1 and Class 2 and remained the same for Class 3 in 2023 compared to 2022.

The Caltrans pavement rating system uses a different methodology than the federal measures. Caltrans designates the color *Green* for pavement with no distress or very low distress, the color *Yellow* for pavement with minor surface distress, and the color *Red* for pavement with structural distress or poor ride quality. Through this monitoring and assessment effort, Caltrans can proactively apply the most cost-effective treatments to minimize pavement deterioration and bring it to a state of good repair. Table 2 presents the 2022 and 2023 statewide pavement conditions by roadway classification, based on the Caltrans rating system. The percentage of *Green* pavement decreased for all

three roadway classes in 2023 compared to 2022. The percentage of Yellow pavements increased for all three roadway classes. The percentage of Red pavements increased in Class 1 and Class 2 while it decreased in Class 3.

**TABLE 1. STATEWIDE PAVEMENT CONDITION SUMMARY BY ROADWAY CLASSIFICATION, BASED ON FEDERAL PERFORMANCE MEASURES**

<b>Roadway Class</b>	<b>2022 Good Lane-Miles</b>	<b>2022 Fair Lane-Miles</b>	<b>2022 Poor Lane-Miles</b>	<b>2022 Sub-Total</b>	<b>2023 Good Lane-Miles</b>	<b>2023 Fair Lane-Miles</b>	<b>2023 Poor Lane-Miles</b>	<b>2023 Sub-Total</b>
<b>Class 1</b>	16,907 (61.5%)	10,237 (37.2%)	368 (1.3%)	27,512 (100%)	17,128 (61.6%)	10,289 (37.0%)	389 (1.4%)	27,806 (100%)
<b>Class 2</b>	7,035 (42.9%)	9,136 (55.7%)	224 (1.4%)	16,394 (100%)	7,131 (43.9%)	8,893 (54.7%)	238 (1.5%)	16,262 (100%)
<b>Class 3</b>	2,776 (41.4%)	3,830 (57.2%)	95 (1.4%)	6,701 (100%)	2,806 (42.1%)	3,761 (56.5%)	91 (1.4%)	6,659 (100%)
<b>Statewide Total</b>	26,718 (52.8%)	23,203 (45.8%)	686 (1.4%)	50,607 (100%)	27,066 (53.4%)	22,944 (45.2%)	718 (1.4%)	50,728 (100%)

**TABLE 2. STATEWIDE PAVEMENT CONDITION SUMMARY BY ROADWAY CLASSIFICATION, BASED ON CALTRANS RATING SYSTEM**

<b>Roadway Class</b>	<b>2022 Green Lane-Miles</b>	<b>2022 Yellow Lane-Miles</b>	<b>2022 Red Lane-Miles</b>	<b>2022 Sub-Total</b>	<b>2023 Green Lane-Miles</b>	<b>2023 Yellow Lane-Miles</b>	<b>2023 Red Lane-Miles</b>	<b>2023 Sub-Total</b>
<b>Class 1</b>	20,989 (76.3%)	3,908 (14.2%)	2,615 (9.5%)	27,512 (100%)	20,833 (74.9%)	4,171 (15.0%)	2,802 (10.1%)	27,806 (100%)
<b>Class 2</b>	8,479 (51.7%)	4,697 (28.7%)	3,218 (19.6%)	16,394 (100%)	7,929 (48.8%)	5,120 (31.5%)	3,214 (19.8%)	16,262 (100%)
<b>Class 3</b>	3,320 (49.5%)	1,760 (26.3%)	1,620 (24.2%)	6,701 (100%)	3,222 (48.4%)	1,885 (28.3%)	1,553 (23.3%)	6,659 (100%)
<b>Statewide Total</b>	32,788 (64.8%)	10,365 (20.5%)	7,453 (14.7%)	50,607 (100%)	31,983 (63.0%)	11,176 (22.0%)	7,568 (14.9%)	50,728 (100%)

In 2023, approximately 59 percent of total lane-miles collected were measured with an International Roughness Index (I.R.I.) of less than 95 inches per mile, 32 percent with an I.R.I. between 95 to 170 inches per mile, and 9 percent with an I.R.I. greater than 170 inches per mile.

Caltrans is committed to using maintenance resources effectively to prolong the service life of the pavement and maintain the S.H.S. at the lowest possible long-term cost. The A.P.C.S. data also serves as a crucial component of Caltrans' Pavement Management System (PaveM). PaveM uses pavement condition data along with other information such as traffic census, climate region, and construction history to predict future pavement condition and recommend project locations viable for cost-effective treatments.

From Fiscal Year (F.Y.) 2022/23 through F.Y. 2023/24, Caltrans delivered approximately \$3.2 billion in pavement projects on nearly 4,746 lane-miles of roadway. Table 3 summarizes the total capital costs and lane-miles for Highway Maintenance (H.M.1) and State Highway Operations and Protection Program (S.H.O.P.P.) pavement projects within the last two fiscal years.

**TABLE 3. AWARDED PAVEMENT IMPROVEMENTS CAPITAL COSTS AND LANE-MILES FROM F.Y. 2022/23 TO F.Y. 2023/24**

<b><u>Funding Program</u></b>	<b><u>F.Y. 2022/23 Million Dollar<sup>1</sup></u></b>	<b><u>F.Y. 2022/23 Lane- Miles</u></b>	<b><u>F.Y. 2023/24 Million Dollar<sup>1</sup></u></b>	<b><u>F.Y. 2023/24 Lane- Miles</u></b>	<b><u>Total Million Dollar<sup>1</sup></u></b>	<b><u>Total Lane- Miles</u></b>
<b>H.M.1</b>	\$315	1,337	\$213	1,176	\$528	2,197
<b>S.H.O.P.P. – C.A.P.M.</b>	\$435	564	\$882	385	\$1,317	1,933
<b>S.H.O.P.P. – Rehabilitation</b>	\$940	407	\$486	184	\$1,426	612
<b>S.H.O.P.P. – Minor A</b>	\$1	1	\$3	1	\$4	4
<b>S.H.O.P.P. – Sub-Total</b>	\$1,376	972	\$1,370	570	\$2,746	2,549
<b>Total H.M.1 &amp; S.H.O.P.P.</b>	\$1,691	2,309	\$1,583	1,746	\$3,274	4,746

<sup>1</sup> Costs associated to pavement-related contract bid items only and exclude project support costs. It also does not include on-call maintenance contracts or Director's Order contracts.

## STATE HIGHWAY SYSTEM

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The S.H.S. primarily consists of two types of pavements: asphalt and concrete. Asphalt pavements include pavement surfaced with conventional hot mix asphalt (either open-graded or dense-graded), rubberized hot mix asphalt (either open-graded or gap-graded), chip seal, slurry seal, bonded wearing course, or other asphaltic materials. Asphalt pavement surfaces also include composite pavements with underlying concrete pavement. Concrete pavements include pavement surfaced with concrete materials such as jointed plain concrete pavement (J.P.C.P.), continuously reinforced concrete pavement (C.R.C.P.), and precast concrete pavement.

Table 4 presents the statewide lane-miles of pavement, by type and excluding bridges and other structures, that were collected in the 2022 and 2023 A.P.C.S. cycles.

**TABLE 4. STATEWIDE LANE-MILES OF A.P.C.S. DATA COLLECTED BY PAVEMENT TYPE**

<b><u>Pavement Type</u></b>	<b><u>2022 Lane-Miles Collected</u></b>	<b><u>2023 Lane-Miles Collected</u></b>
<b>Asphalt</b>	37,292 (73.7%)	37,177 (73.3%)
<b>Concrete</b>	13,315 (26.3%)	13,550 (26.7%)
<b>Statewide Total</b>	50,607 (100%)	50,728 (100%)

The difference in the total lane-miles collected between 2022 and 2023 may be attributed to right-of-way relinquishments, new roadway pavement segments, new roadway re-alignments, or pavement locations where conditions could not be collected such as roadway closures for highway construction activities.

Table 5 presents the statewide lane-miles of pavement, by roadway classification, that were collected in the 2022 and 2023 A.P.C.S. cycles. For planning purposes, the S.H.S. has been classified into three roadway classifications:

- Roadway Class 1 contains route segments classified as Interstate and other principal arterials. It includes Freight Network Tier I and II, and the Strategic Highway Network (S.T.R.A.H.N.E.T.) routes. Examples of Class 1 routes are Sacramento-80, Alameda-580, Ventura-101, Los Angeles-210, and San Diego-8.
- Roadway Class 2 contains route segments classified as non-Interstate National Highway System and Interregional Road System (I.R.R.S.). It

includes Freight Network Tier 3. Examples of Class 2 routes are Mendocino-20, Napa-29, Monterey-1, Riverside-74, and Orange-73.

- Roadway Class 3 contains all other routes not included in Classes 1 and 2. Examples of Class 3 routes are Trinity-3, Humbolt-36, San Luis Obispo-58, and Mono-167.

**TABLE 5. STATEWIDE LANE-MILES OF A.P.C.S. DATA COLLECTED BY ROADWAY CLASSIFICATION**

<b><u>Roadway Class</u></b>	<b><u>2022 Lane-Miles Collected</u></b>	<b><u>2023 Lane-Miles Collected</u></b>
<b>Class 1</b>	27,512 (54.4%)	27,806 (54.8%)
<b>Class 2</b>	16,394 (32.4%)	16,262 (32.1%)
<b>Class 3</b>	6,701 (13.2%)	6,659 (13.1%)
<b>Statewide Total</b>	50,607 (100%)	50,728 (100%)

The S.H.S. includes the Interstate System, other roadways along the National Highway System (N.H.S.), and Non-N.H.S. roadways. Table 6 presents the statewide lane-miles of pavement, by highway type, that were collected in the 2022 and 2023 A.P.C.S. cycles.

**TABLE 6. STATEWIDE LANE-MILES OF A.P.C.S. DATA COLLECTED BY HIGHWAY TYPE**

<b><u>Highway Type</u></b>	<b><u>2022 Lane-Miles Collected</u></b>	<b><u>2023 Lane-Miles Collected</u></b>
<b>N.H.S. – Interstate</b>	14,684 (29.0%)	14,809 (29.2%)
<b>N.H.S. – Non-Interstate</b>	22,895 (45.2%)	23,128 (45.6%)
<b>N.H.S. Sub-Total</b>	37,579 (74.3%)	37,936 (74.8%)
<b>Non-N.H.S.</b>	13,028 (25.7%)	12,791 (25.2%)
<b>Statewide Total</b>	50,607 (100%)	50,728 (100%)

There are 12 Caltrans regional districts across California. Each district is responsible for managing and maintaining their respective portions of the S.H.S. network. Table 7 presents the statewide lane-miles of pavement, by district, that were collected in the 2022 and 2023 A.P.C.S. cycles.

**TABLE 7. STATEWIDE LANE-MILES OF A.P.C.S. DATA COLLECTED BY DISTRICT**

<b><u>District</u></b>	<b><u>2022 Lane-Miles Collected</u></b>	<b><u>2023 Lane-Miles Collected</u></b>
<b>District 1</b>	2,286 (4.5%)	2,290 (4.5%)
<b>District 2</b>	3,961 (7.8%)	3,948 (7.8%)
<b>District 3</b>	4,407 (8.7%)	4,495 (8.9%)
<b>District 4</b>	6,165 (12.2%)	6,277 (12.4%)
<b>District 5</b>	3,165 (6.3%)	3,199 (6.3%)
<b>District 6</b>	5,208 (10.3%)	5,203 (10.3%)
<b>District 7</b>	6,184 (12.2%)	6,127 (12.1%)
<b>District 8</b>	6,858 (13.6%)	6,923 (13.6%)
<b>District 9</b>	2,523 (5.0%)	2,566 (5.1%)
<b>District 10</b>	3,504 (6.9%)	3,442 (6.8%)
<b>District 11</b>	4,263 (8.4%)	4,205 (8.3%)
<b>District 12</b>	2,082 (4.1%)	2,053 (4.0%)
<b>Statewide Total</b>	50,607 (100%)	50,728 (100%)

A map of each Caltrans district's boundary is available in Appendix A.

## PAVEMENT CONDITION MONITORING AND MANAGEMENT

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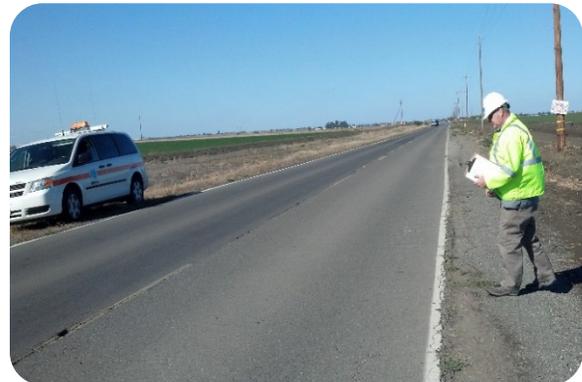
### Pavement Condition Monitoring

Historically, a team of pavement raters would conduct a manual pavement condition survey at various locations along the S.H.S. once a year. The pavement raters visually inspected the outside highway lanes for both directions of travel using systematic sampling techniques. Pavement condition assessments would be extrapolated for the entire S.H.S. based on those sample locations.

Between 2011 and 2012, Caltrans began testing and transitioning to A.P.C.S. to efficiently collect, evaluate, and analyze pavement conditions for all lanes on the S.H.S. It utilizes vehicles equipped with an array of on-board high-definition cameras, laser sensors, Global Positioning System tracker, and other measurement devices that quickly collect pavement data at highway speeds. The data collected includes geographical locations of the highways, downward-looking pavement surface images, forward right-of-way images, and pavement surface profiles. For asphalt pavement and C.R.C.P., one data element is reported for every 26.4-foot section. For J.P.C.P., one data element is reported for each concrete slab. The data elements would be aggregated to calculate a weighted average of the pavement condition for each 0.1-mile segment.

Figure 1 presents the data collection methods for A.P.C.S. and manual inspection. The manual pavement inspection is now a component of the A.P.C.S. data validation process in compliance with 23 C.F.R. 490.319(c).

**FIGURE 1. A.P.C.S. VEHICLE ON THE ROAD AND MANUAL PAVEMENT INSPECTION**



### Pavement Management System

The Pavement Management System (PaveM) is a versatile tool that assists Caltrans with analyzing existing pavement conditions, predicting future pavement conditions, and recommending pavement projects to achieve

targeted performance goals by data driven strategies. PaveM uses many data inputs such as pavement condition, traffic census, climate region, pavement treatments, and construction history to predict future pavement condition and recommend projects. The tool maximizes funding resources by assisting with analysis of network-wide investment alternatives.

## FEDERAL PAVEMENT PERFORMANCE MEASURES

The Moving Ahead for Progress in the 21<sup>st</sup> Century Act (M.A.P.-21) established a performance-based objective that directs States to make smart transportation investment decisions and work toward achieving seven national performance goals. One of the national goals is pavement performance. The National Highway Performance Program (N.H.P.P.) was enacted under M.A.P.-21 and continued under the Fixing America's Surface Transportation Act (F.A.S.T. Act) to provide guidance for States to meet the national goals. In accordance with the N.H.P.P., the federal pavement performance measures are codified under 23 C.F.R. 490, Subpart C.

The N.H.P.P. determines pavement performance measures based on a combination of different pavement distress metrics. Asphalt pavement metrics are surface roughness according to I.R.I., cracking, and rutting. J.P.C.P. pavement metrics are I.R.I., cracking, and faulting. C.R.C.P. pavement metrics are I.R.I. and cracking. The metrics are rated as *Good*, *Fair*, and *Poor* based on a set of criteria for each pavement type. Table 8 presents the performance metrics and measures criteria for each pavement type. *Good* pavement measure is represented as green, *Fair* pavement measure is represented as light purple, and *Poor* pavement measure is represented as purple.

**TABLE 8. FEDERAL PAVEMENT PERFORMANCE METRICS AND MEASURES CRITERIA**

<b><u>Performance Metrics</u></b>	<b><u>Good</u></b>	<b><u>Fair</u></b>	<b><u>Poor</u></b>
<b>I.R.I. (inches per mile)</b>	Less than 95	Between 95 to 170	Greater than 170
<b>Cracking (percentage) for Asphalt Pavement</b>	Less than 5	Between 5 to 20	Greater than 20
<b>Cracking (percentage) for J.P.C.P.</b>	Less than 5	Between 5 to 15	Greater than 15
<b>Cracking (percentage) for C.R.C.P.</b>	Less than 5	Between 5 to 10	Greater than 10
<b>Rutting (inch) for Asphalt Pavement</b>	Less than 0.2	Between 0.2 to 0.4	Greater than 0.4
<b>Faulting (inch) for J.P.C.P.</b>	Less than 0.10	Between 0.10 to 0.15	Greater than 0.15

The overall condition of a pavement section will be considered *Good* if all the performance metrics for each pavement type are rated as *Good*. If two or more performance metrics are rated as *Poor*, then the pavement section is considered *Poor*. All other condition combinations are considered as *Fair*.

Table 9 presents the statewide pavement performance targets established by Caltrans for each roadway classification and performance measure.

**TABLE 9. STATEWIDE PAVEMENT PERFORMANCE TARGETS FOR EACH ROADWAY CLASSIFICATION AND FEDERAL PERFORMANCE MEASURE**

<u>Roadway Class</u>	<u>Good</u>	<u>Fair</u>	<u>Poor</u>
<b>Class 1</b>	60%	39%	1%
<b>Class 2</b>	55%	43%	2%
<b>Class 3</b>	45%	53%	2%

### Pavement Condition Statewide

#### Overall Pavement Condition

Table 10 presents the 2022 and 2023 statewide pavement condition based on the federal performance measures. The percentage of *Good* pavement increased, and the percentage of *Fair* pavement decreased, and the percentage of *Poor* pavement is the same in 2023 compared to 2022.

**TABLE 10. STATEWIDE PAVEMENT CONDITION SUMMARY BASED ON FEDERAL PERFORMANCE MEASURES**

<u>Federal Measure</u>	<u>2022 Lane-Miles</u>	<u>2023 Lane-Miles</u>
<b>Good</b>	26,718 (52.8%)	27,066 (53.4%)
<b>Fair</b>	23,203 (45.8%)	22,944 (45.2%)
<b>Poor</b>	686 (1.4%)	718 (1.4%)
<b>Statewide Total</b>	50,607 (100%)	50,728 (100%)

#### Condition by Pavement Type

Table 11 presents the 2022 and 2023 statewide pavement conditions by pavement type, based on the federal performance measures. For asphalt pavement, the percentage of *Good* and *Poor* pavement increased, and the percentage of *Fair* pavement decreased in 2023 compared to 2022. For concrete pavement, the percentage of *Good* and *Poor* pavement increased, and the percentage of *Fair* pavement decreased in 2023 compared to 2022.

**TABLE 11. STATEWIDE PAVEMENT CONDITION SUMMARY BY PAVEMENT TYPE,  
BASED ON FEDERAL PERFORMANCE MEASURES**

<u>Federal Measure</u>	<u>2022 Asphalt Lane-Miles</u>	<u>2023 Asphalt Lane-Miles</u>	<u>2022 Concrete Lane-Miles</u>	<u>2023 Concrete Lane-Miles</u>
<b>Good</b>	20,613 (55.3%)	20,617 (55.5%)	6,104 (45.8%)	6,449 (47.6%)
<b>Fair</b>	16,366 (43.9%)	16,237 (43.7%)	6,837 (51.3%)	6,707 (49.5%)
<b>Poor</b>	312 (0.8%)	324 (0.9%)	374 (2.8%)	394 (2.9%)
<b>Statewide Total</b>	37,292 (100%)	37,177 (100%)	13,315 (100%)	13,550 (100%)

*Condition by Roadway Class*

Table 12 presents the 2022 and 2023 statewide pavement condition by roadway classification, based on the federal performance measures. The percentage of *Good* pavement increased for Class 1, Class 2 and Class 3 in 2023 compared to 2022. The percentage of *Fair* pavement decreased for Class 1, Class 2 and 3. The percentage of *Poor* pavement increased for Class 1 and Class 2, and it is the same for Class 3.

**TABLE 12. STATEWIDE PAVEMENT CONDITION SUMMARY BY ROADWAY  
CLASSIFICATION, BASED ON FEDERAL PERFORMANCE MEASURES**

<u>Roadway Class</u>	<u>2022 Good Lane- Miles</u>	<u>2022 Fair Lane- Miles</u>	<u>2022 Poor Lane- Miles</u>	<u>2022 Sub- Total</u>	<u>2023 Good Lane- Miles</u>	<u>2023 Fair Lane- Miles</u>	<u>2023 Poor Lane- Miles</u>	<u>2023 Sub- Total</u>
<b>Class 1</b>	16,907 (61.5%)	10,237 (37.2%)	368 (1.3%)	27,512 (100%)	17,128 (61.6%)	10,289 (37.0%)	389 (1.4%)	27,806 (100%)
<b>Class 2</b>	7,035 (42.9%)	9,136 (55.7%)	224 (1.4%)	16,394 (100%)	7,131 (43.9%)	8,893 (54.7%)	238 (1.5%)	16,262 (100%)
<b>Class 3</b>	2,776 (41.4%)	3,830 (57.2%)	95 (1.4%)	6,701 (100%)	2,806 (42.1%)	3,761 (56.5%)	91 (1.4%)	6,659 (100%)
<b>Statewide Total</b>	26,718 (52.8%)	23,203 (45.8%)	686 (1.4%)	50,607 (100%)	27,066 (53.4%)	22,944 (45.2%)	718 (1.4%)	50,728 (100%)

Pavement conditions for each district by roadway classification, based on the federal performance measures, is available in Appendix B and Appendix C.

### Condition by Highway Type

Table 13 presents the 2022 and 2023 statewide pavement condition by highway type, based on the federal performance measures. The percentage of *Good* decreased for N.H.S interstate, while it increased for other types. The percentage of *Fair* pavement is the same for N.H.S Interstate while it decreased for other types of highways in 2023 compared to 2022. The percentage of *Poor* pavement increased for NHS Interstate and NHS Sub-Total highway types while it decreased for the Non-NHS highway type, and it is same for NHS Non-Interstate highway type in 2023 compared to 2022.

**TABLE 13. STATEWIDE PAVEMENT CONDITION SUMMARY BY HIGHWAY TYPE, BASED ON FEDERAL PERFORMANCE MEASURES**

<u>Highway Type</u>	<u>2022</u> <u>Good</u> <u>Lane-</u> <u>Miles</u>	<u>2022</u> <u>Fair</u> <u>Lane-</u> <u>Miles</u>	<u>2022</u> <u>Poor</u> <u>Lane-</u> <u>Miles</u>	<u>2022</u> <u>Sub-</u> <u>Total</u>	<u>2023</u> <u>Good</u> <u>Lane-</u> <u>Miles</u>	<u>2023</u> <u>Fair</u> <u>Lane-</u> <u>Miles</u>	<u>2023</u> <u>Poor</u> <u>Lane-</u> <u>Miles</u>	<u>2023</u> <u>Sub-</u> <u>Total</u>
<b>N.H.S. – Interstate</b>	9,035 (61.5%)	5,437 (37.0%)	212 (1.4%)	14,684 (100%)	9,088 (61.4%)	5,485 (37.0%)	236 (1.6%)	14,809 (100%)
<b>N.H.S. – Non-Interstate</b>	12,382 (54.1%)	10,204 (44.6%)	310 (1.4%)	22,895 (100%)	12,695 (54.9%)	10,109 (43.7%)	324 (1.4%)	23,128 (100%)
<b>N.H.S. – Sub-Total</b>	21,417 (57.0%)	15,640 (41.6%)	522 (1.4%)	37,579 (100%)	21,783 (57.4%)	15,594 (41.1%)	560 (1.5%)	37,936 (100%)
<b>Non-N.H.S.</b>	5,300 (40.7%)	7,563 (58.0%)	165 (1.3%)	13,028 (100%)	5,283 (41.3%)	7,350 (57.5%)	159 (1.2%)	12,791 (100%)
<b>Statewide Total</b>	26,718 (52.8%)	23,203 (45.8%)	686 (1.4%)	50,607 (100%)	27,066 (53.4%)	22,944 (45.2%)	718 (1.4%)	50,728 (100%)

### Pavement Condition by District

Table 14 presents the 2022 and 2023 statewide pavement conditions by district, based on the federal performance measures. The percentage of *Good* pavement increased for District 2, District 4, District 5, District 7, District 9, District 10, District 11 and District 12, and it decreased in the other districts in 2023 compared to 2022. The percentage of *Fair* pavement increased for District 1, District 3, District 4, District 6, District 8 and it decreased for the other districts. The percentage of *Poor* pavement increased for District 6, District 7, District 8, District 10 and District 12, while it is the same percentage for Districts 1, District 2, District 3, District 5 and District 9 and decreased for the District 4 and District 11 in 2023 compared to 2022.

**TABLE 14. STATEWIDE PAVEMENT CONDITION SUMMARY BY DISTRICT, BASED ON  
FEDERAL PERFORMANCE MEASURES**

<b>District</b>	<b>2022 Good Lane- Miles</b>	<b>2022 Fair Lane- Miles</b>	<b>2022 Poor Lane- Miles</b>	<b>2022 Sub- Total</b>	<b>2023 Good Lane- Miles</b>	<b>2023 Fair Lane- Miles</b>	<b>2023 Poor Lane- Miles</b>	<b>2023 Sub- Total</b>
District 1	994 (43.5%)	1,261 (55.2%)	31 (1.4%)	2,286 (100%)	976 (42.6%)	1,282 (56.0%)	32 (1.4%)	2,290 (100%)
District 2	2,150 (54.3%)	1,786 (45.1%)	25 (0.6%)	3,961 (100%)	2,275 (57.6%)	1,647 (41.7%)	25 (0.6%)	3,948 (100%)
District 3	2,572 (58.3%)	1,801 (40.9%)	35 (0.8%)	4,407 (100%)	2,604 (57.9%)	1,855 (41.3%)	36 (0.8%)	4,495 (100%)
District 4	2,790 (45.3%)	3,252 (52.7%)	123 (2.0%)	6,165 (100%)	2,848 (45.4%)	3,312 (52.8%)	117 (1.9%)	6,277 (100%)
District 5	1,774 (56.0%)	1,352 (42.7%)	40 (1.3%)	3,165 (100%)	1,828 (57.1%)	1,328 (41.5%)	43 (1.3%)	3,199 (100%)
District 6	3,151 (60.5%)	1,987 (38.2%)	70 (1.3%)	5,208 (100%)	3,111 (59.8%)	2,014 (38.7%)	78 (1.5%)	5,203 (100%)
District 7	2,540 (41.1%)	3,484 (56.3%)	160 (2.6%)	6,184 (100%)	2,561 (41.8%)	3,389 (55.3%)	177 (2.9%)	6,127 (100%)
District 8	3,710 (54.1%)	3,026 (44.1%)	121 (1.8%)	6,858 (100%)	3,712 (53.6%)	3,082 (44.5%)	129 (1.9%)	6,923 (100%)
District 9	1,815 (72.0%)	701 (27.8%)	6 (0.2%)	2,523 (100%)	1,872 (73.0%)	688 (26.8%)	6 (0.2%)	2,566 (100%)
District 10	2,152 (61.4%)	1,317 (37.6%)	35 (1.0%)	3,504 (100%)	2,165 (62.9%)	1,240 (36.0%)	37 (1.1%)	3,442 (100%)
District 11	2,113 (49.6%)	2,124 (49.8%)	26 (0.6%)	4,263 (100%)	2,136 (50.8%)	2,047 (48.7%)	22 (0.5%)	4,205 (100%)
District 12	956 (45.9%)	1,113 (53.4%)	14 (0.7%)	2,082 (100%)	978 (47.6%)	1,059 (51.6%)	16 (0.8%)	2,053 (100%)
<b>Statewide Total</b>	<b>26,718 (52.8%)</b>	<b>23,790 (47.0%)</b>	<b>686 (1.4%)</b>	<b>50,607 (100%)</b>	<b>27,066 (53.4%)</b>	<b>22,943 (45.2%)</b>	<b>718 (1.4%)</b>	<b>50,728 (100%)</b>

## CALTRANS PAVEMENT RATING SYSTEM

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The Caltrans pavement rating system utilizes a different methodology than the federal measures to integrate conditions with engineering solutions. The Caltrans pavement rating system designates the color *Green* for pavement with no distress or very low distress, the color *Yellow* for pavement with minor cracking or surface distress, and the color *Red* for distressed pavement that has structural distress or poor ride quality. This is referred to as the R.Y.G. (Red, Yellow, and Green) designation.

Preventive treatments would typically be applied to the *Green* pavement to maintain and prolong its good condition. *Yellow* pavement would receive corrective treatments to slow pavement deterioration. *Red* distressed pavement would need more substantial rehabilitation treatments to bring it to a state of good repair or complete reconstruction and replacement.

To determine the appropriate treatments for the distressed pavement, the *Red* pavement is further subdivided into the color *Blue* for pavement with poor ride quality, the color *Orange* for pavement with minor structural distress, and the color *Red* for pavement with major structural distress. Along with the prior *Green* and *Yellow* pavements, this is referred to as the R.O.B.Y.G. (Red, Orange, Blue, Yellow, and Green) designation. Figure 2 presents examples of the pavement condition for each category of the R.O.B.Y.G. designation.

**FIGURE 2. EXAMPLES OF PAVEMENT CONDITION BASED ON CALTRANS RATING SYSTEM**

**Green**

**Yellow**



**No Distress**

**Minor Surface  
Distress**

**Blue**

**Orange**

**Red**



**Poor Ride Only**

**Minor Structural  
Distress**

**Major Structural  
Distress**

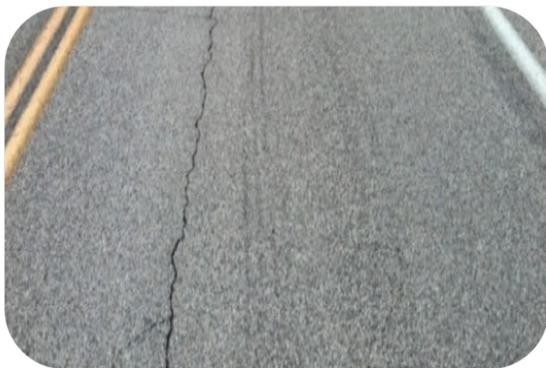
Table 15 presents the Caltrans pavement condition rating priority matrix for asphalt pavement. Figure 3 presents examples of distress for asphalt pavement.

**TABLE 15. CALTRANS CONDITION RATING PRIORITY MATRIX FOR ASPHALT PAVEMENT**

<u>Alligator B Cracking (percentage) Rating Criteria</u>	<u>Alligator A Plus Alligator B Cracking (percentage) Rating Criteria</u>	<u>I.R.I. (inches per mile) Rating Criteria</u>	<u>R.Y.G. Rating</u>	<u>R.O.B.Y.G. Rating</u>	<u>Condition Rating</u>
Less than 5%	Less than 5%	Less than or equal to 170	Green	Green	Low I.R.I., Very Low B Cracking, Very Low A Cracking
Less than 5%	Greater than or equal to 5%	Less than or equal to 170	Yellow	Yellow	A Plus B Cracking
Greater than or equal to 5%, and less than 10%	Any value	Less than or equal to 170	Yellow	Yellow	Low B Cracking
Less than 5%	Any value	Greater than 170	Red	Blue	High I.R.I. Only
Greater than or equal to 5%, and less than 10%	Any value	Greater than 170	Red	Blue	High I.R.I., Low B Cracking
Between 10% and 30%	Any value	Any value	Red	Orange	Medium B Cracking
Greater than 30%	Any value	Any value	Red	Red	High B Cracking

**FIGURE 3. EXAMPLES OF DISTRESS FOR ASPHALT PAVEMENT**

Alligator A Cracking



Alligator B Cracking



Table 16 presents the Caltrans pavement condition rating priority matrix for jointed plain concrete pavement. Figure 4 presents examples of distress for concrete pavement.

**TABLE 16. CALTRANS CONDITION RATING PRIORITY MATRIX FOR JOINTED PLAIN CONCRETE PAVEMENT**

<b><u>3<sup>rd</sup> Stage Cracking (Percentage) Rating Criteria</u></b>	<b><u>Faulting<sup>2</sup> (Percentage) Rating Criteria</u></b>	<b><u>I.R.I. (inches per mile) Rating Criteria</u></b>	<b><u>R.Y.G. Rating</u></b>	<b><u>R.O.B.Y.G. Rating</u></b>	<b><u>Condition Rating</u></b>
Less than 3%	Less than or equal to 25%	Less than or equal to 170	Green	Green	Low I.R.I., Low Cracking, Low Faulting
Between 3% and 10%	Less than or equal to 25%	Less than or equal to 170	Yellow	Yellow	Medium Cracking Only
Less than 3%	Less than or equal to 25%	Greater than 170	Red	Blue	High I.R.I. Only
Between 3% and 10%	Less than or equal to 25%	Greater than 170	Red	Blue	High I.R.I., Medium Cracking, Low Faulting
Less than 3%	Greater than 25%	Any value	Red	Orange	High Faulting, Low Cracking
Between 3% and 10%	Greater than 25%	Any value	Red	Orange	High Faulting, Medium Cracking
Greater than 10%	Any value	Any value	Red	Red	High Cracking

<sup>2</sup> Faulting percentage is the percentage of data elements in a segment with fault height greater than 0.15 inch.

**FIGURE 4. EXAMPLES OF DISTRESS FOR CONCRETE PAVEMENT**



Pavement Condition Statewide

*Overall Pavement Condition*

Table 17 presents the 2022 and 2023 statewide pavement condition based on the Caltrans rating system. The percentage of Green pavement decreased, the percentage of Yellow and Red pavement increased in 2023 compared to 2022.

**TABLE 17. STATEWIDE PAVEMENT CONDITION SUMMARY BASED ON CALTRANS RATING SYSTEM**

<u>Caltrans Rating System</u>	<u>2022 Lane-miles</u>	<u>2023 Lane-miles</u>
<b>Green</b>	32,788 (64.8%)	31,983 (63.0%)
<b>Yellow</b>	10,365 (20.5%)	11,176 (22.0%)
<b>Red</b>	7,453 (14.7%)	7,568 (14.9%)
<b>Statewide Total</b>	50,607 (100%)	50,728 (100%)

### Condition by Pavement Type

Table 18 presents the 2022 and 2023 statewide pavement condition by pavement type, based on the Caltrans rating system. For asphalt pavement, the percentage of *Green* pavement decreased, the percentage of *Yellow* pavement increased, and the percentage of *Red* pavement increased in 2023 compared to 2022. For concrete pavement, the percentage of *Green* pavement and the percentage of *Yellow* pavement decreased, and the percentage of *Red* pavement increased in 2023 compared to 2022.

**TABLE 18. STATEWIDE PAVEMENT CONDITION SUMMARY BY PAVEMENT TYPE, BASED ON CALTRANS RATING SYSTEM**

<u>Caltrans Rating System</u>	<u>2022 Asphalt Lane-Miles</u>	<u>2023 Asphalt Lane-Miles</u>	<u>2022 Concrete Lane-Miles</u>	<u>2023 Concrete Lane-Miles</u>
<b>Green</b>	22,041 (59.1%)	21,086 (56.7%)	10,747 (80.7%)	10,898 (80.4%)
<b>Yellow</b>	9,867 (26.5%)	10,714 (28.8%)	498 (3.7%)	462 (3.4%)
<b>Red</b>	5,384 (14.4%)	5,378 (14.5%)	2,069 (15.5%)	2,190 (16.2%)
<b>Statewide Total</b>	37,292 (100%)	37,177 (100%)	13,315 (100%)	13,550 (100%)

### Pavement Condition by Roadway Class

Table 19 presents the 2022 and 2023 statewide pavement condition by roadway classification, based on the Caltrans rating system. The percentage of *Green* pavement decreased for all three roadway classes in 2023 compared to 2022. The percentage of *Yellow* and *Red* pavement increased for all three roadway classes except the Class 3 of *Red* pavement decreased.

**TABLE 19. STATEWIDE PAVEMENT CONDITION SUMMARY BY ROADWAY CLASSIFICATION, BASED ON CALTRANS RATING SYSTEM**

<u>Roadway Class</u>	<u>2022 Green Lane-Miles</u>	<u>2022 Yellow Lane-Miles</u>	<u>2022 Red Lane-Miles</u>	<u>2022 Sub-Total</u>	<u>2023 Green Lane-Miles</u>	<u>2023 Yellow Lane-Miles</u>	<u>2023 Red Lane-Miles</u>	<u>2023 Sub-Total</u>
<b>Class 1</b>	20,989 (76.3%)	3,908 (14.2%)	2,615 (9.5%)	27,512 (100%)	20,833 (74.9%)	4,171 (15.0%)	2,802 (10.1%)	27,806 (100%)
<b>Class 2</b>	8,479 (51.7%)	4,697 (28.7%)	3,218 (19.6%)	16,394 (100%)	7,929 (48.8%)	5,120 (31.5%)	3,214 (19.8%)	16,262 (100%)
<b>Class 3</b>	3,320 (49.5%)	1,760 (26.3%)	1,620 (24.2%)	6,701 (100%)	3,222 (48.4%)	1,885 (28.3%)	1,553 (23.3%)	6,659 (100%)
<b>Statewide Total</b>	32,788 (64.8%)	10,365 (20.5%)	7,453 (14.7%)	50,607 (100%)	31,983 (63.0%)	11,176 (22.0%)	7,568 (14.9%)	50,728 (100%)

Pavement conditions for each district by roadway class, based on the Caltrans rating system is available in Appendix D and Appendix E.

*Pavement Condition by Highway Type*

Table 20 presents the 2022 and 2023 statewide pavement by highway type, based on the Caltrans rating system. The percentage of Green pavement decreased for all highway types, while the percentages of Yellow increased for all highway types in 2023 compared to 2022. The percentage of Red pavement increased for all highway types except the Non-NHS highway type.

**TABLE 20. STATEWIDE PAVEMENT CONDITION SUMMARY BY HIGHWAY TYPE, BASED ON CALTRANS RATING SYSTEM**

<u>Highway Type</u>	<u>2022 Green Lane-Miles</u>	<u>2022 Yellow Lane-Miles</u>	<u>2022 Red Lane-Miles</u>	<u>2022 Sub-Total</u>	<u>2023 Green Lane-Miles</u>	<u>2023 Yellow Lane-Miles</u>	<u>2023 Red Lane-Miles</u>	<u>2023 Sub-Total</u>
<b>N.H.S – Interstate</b>	11,446 (78.0%)	1,791 (12.2%)	1,447 (9.9%)	14,684 (100%)	11,357 (76.7%)	1,889 (12.8%)	1,563 (10.6%)	14,809 (100%)
<b>N.H.S. – Non-Interstate</b>	14,911 (65.1%)	4,842 (21.1%)	3,143 (13.7%)	22,895 (100%)	14,529 (62.8%)	5,371 (23.2%)	3,228 (14.0%)	23,128 (100%)
<b>N.H.S. Sub-Total</b>	26,357 (70.1%)	6,632 (17.6%)	4,590 (12.2%)	37,579 (100%)	25,886 (68.2%)	7,260 (19.1%)	4,791 (12.6%)	37,936 (100%)
<b>Non-N.H.S.</b>	6,431 (49.4%)	3,733 (28.7%)	2,864 (22.0%)	13,028 (100%)	6,098 (47.7%)	3,916 (30.6%)	2,778 (21.7%)	12,791 (100%)
<b>Statewide Total</b>	32,788 (64.8%)	10,365 (20.5%)	7,453 (14.7%)	50,607 (100%)	31,983 (63.0%)	11,176 (22.0%)	7,568 (14.9%)	50,728 (100%)

**Pavement Condition by District**

Table 21 presents the 2022 and 2023 statewide pavement condition by district, based on the Caltrans rating system. The percentage of Green pavement decreased for all districts in 2023 compared to 2022 except District 4 and District 9 increased and District 12 is the same percentage in both years. The percentage of Yellow pavement increased for most districts except for District 8 and District 12 decreased. The percentage of Red pavement increased for District 1, District 2, District 6, District 7, District 8 and District 12. The percentage of Red pavement decreased for District 3, District 4, District5, District 9, District10, and District11 in 2023 compared to 2022.

**TABLE 21. STATEWIDE PAVEMENT CONDITION SUMMARY BY DISTRICT, BASED ON CALTRANS RATING SYSTEM**

<u>District</u>	<u>2022 Green Lane- Miles</u>	<u>2022 Yellow Lane- Miles</u>	<u>2022 Red Lane- Miles</u>	<u>2022 Sub- Total</u>	<u>2023 Green Lane- Miles</u>	<u>2023 Yellow Lane- Miles</u>	<u>2023 Red Lane- Miles</u>	<u>2023 Sub- Total</u>
District 1	1,417 (62.0%)	457 (20.0%)	411 (18.0%)	2,286 (100%)	1,366 (59.7%)	500 (21.8%)	424 (18.5%)	2,290 (100%)
District 2	1,943 (49.0%)	1,656 (41.8%)	362 (9.1%)	3,961 (100%)	1,769 (44.8%)	1,802 (45.7%)	376 (9.5%)	3,948 (100%)
District 3	2,915 (66.2%)	992 (22.5%)	500 (11.3%)	4,407 (100%)	2,844 (63.3%)	1,166 (25.9%)	485 (10.8%)	4,495 (100%)
District 4	4,035 (65.4%)	850 (13.8%)	1,280 (20.8%)	6,165 (100%)	4,116 (65.6%)	870 (13.9%)	1,291 (20.6%)	6,277 (100%)
District 5	1,870 (59.1%)	739 (23.3%)	557 (17.6%)	3,165 (100%)	1,886 (59.0%)	769 (24.0%)	543 (17.0%)	3,199 (100%)
District 6	3,577 (68.7%)	1,007 (19.3%)	624 (12.0%)	5,208 (100%)	3,425 (65.8%)	1,149 (22.1%)	629 (12.1%)	5,203 (100%)
District 7	4,266 (69.0%)	609 (9.9%)	1,309 (21.2%)	6,184 (100%)	4,119 (67.2%)	636 (10.4%)	1,371 (22.4%)	6,127 (100%)
District 8	4,221 (61.6%)	1,551 (22.6%)	1,085 (15.8%)	6,858 (100%)	4,148 (59.9%)	1,537 (22.2%)	1,238 (17.9%)	6,923 (100%)
District 9	1,630 (64.6%)	740 (29.3%)	153 (6.1%)	2,523 (100%)	1,664 (64.8%)	760 (29.6%)	143 (5.6%)	2,566 (100%)
District 10	2,124 (60.6%)	925 (26.4%)	455 (13.0%)	3,504 (100%)	1,961 (57.0%)	1,113 (32.3%)	368 (10.7%)	3,442 (100%)
District 11	3,147 (73.8%)	632 (14.8%)	484 (11.4%)	4,263 (100%)	3,066 (72.9%)	671 (16.0%)	467 (11.1%)	4,205 (100%)
District 12	1,643 (78.9%)	208 (10.0%)	231 (11.1%)	2,082 (100%)	1,619 (78.9%)	202 (9.8%)	232 (11.3%)	2,053 (100%)
<b>Statewide Total</b>	<b>32,788 (64.8%)</b>	<b>10,365 (20.5%)</b>	<b>7,453 (14.7%)</b>	<b>50,607 (100%)</b>	<b>31,983 (63.0%)</b>	<b>11,176 (22.0%)</b>	<b>7,568 (14.9%)</b>	<b>50,728 (100%)</b>

## PAVEMENT ROUGHNESS

### Pavement Roughness Statewide

Pavement roughness correlates surface ride quality to the level of comfort that people experience while traveling along the roadway. Both the Federal Highway Administration (F.H.W.A.) and Caltrans included I.R.I. as a pavement performance criterion. It is undesirable for I.R.I. to exceed 170 inches per mile.

Figure 5 presents the 2022 and 2023 statewide I.R.I. distribution percentage. Green represents pavement with I.R.I. less than 95 inches per mile, yellow represents pavement with I.R.I. between 95 to 170 inches per mile, and blue represents pavement with I.R.I. greater than 170 inches per mile. Overall, there was a 0.2% increase of pavement with I.R.I. greater than 170 inches per mile in 2023 compared to 2022.

**FIGURE 5. STATEWIDE I.R.I. DISTRIBUTION PERCENTAGE**

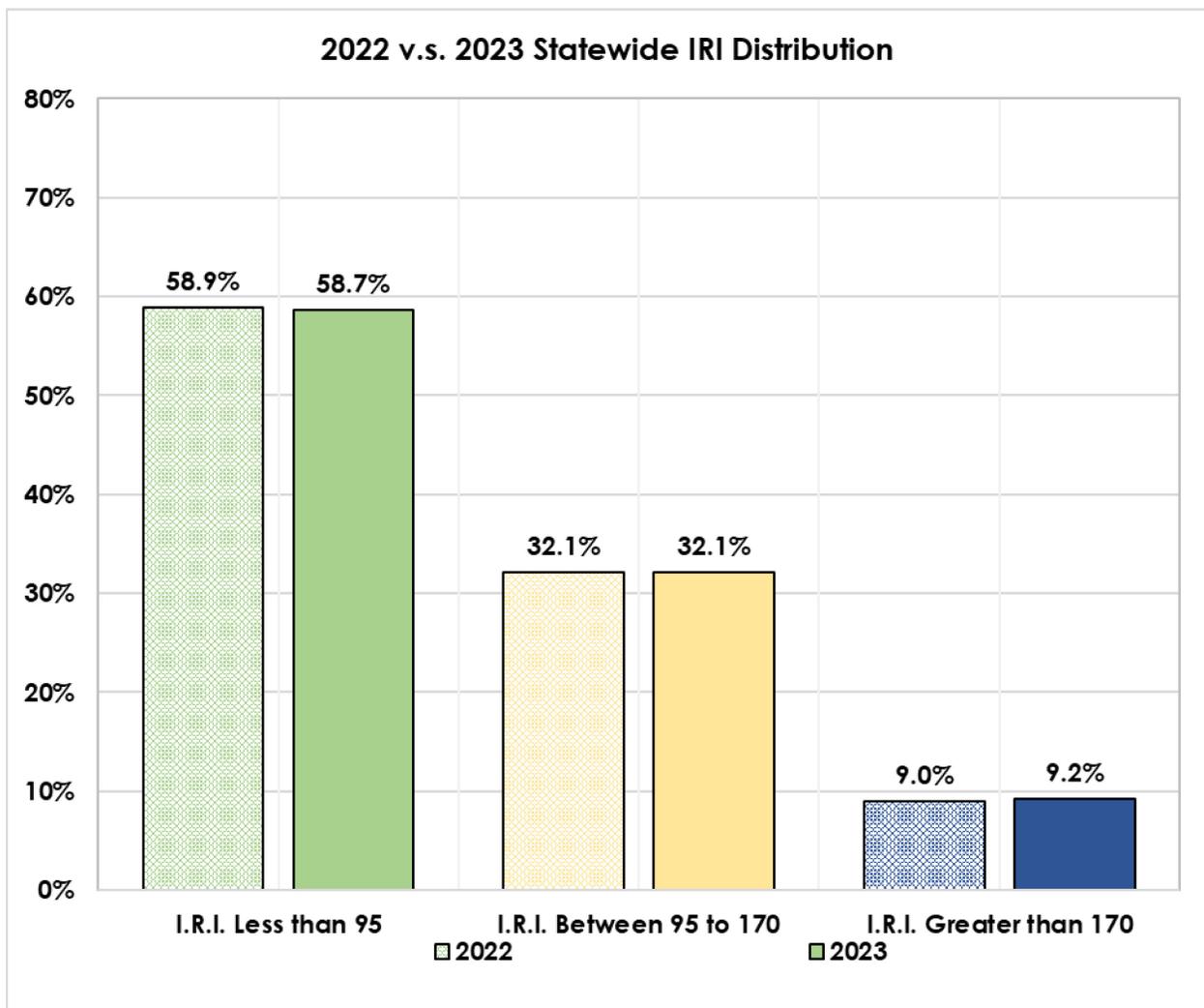
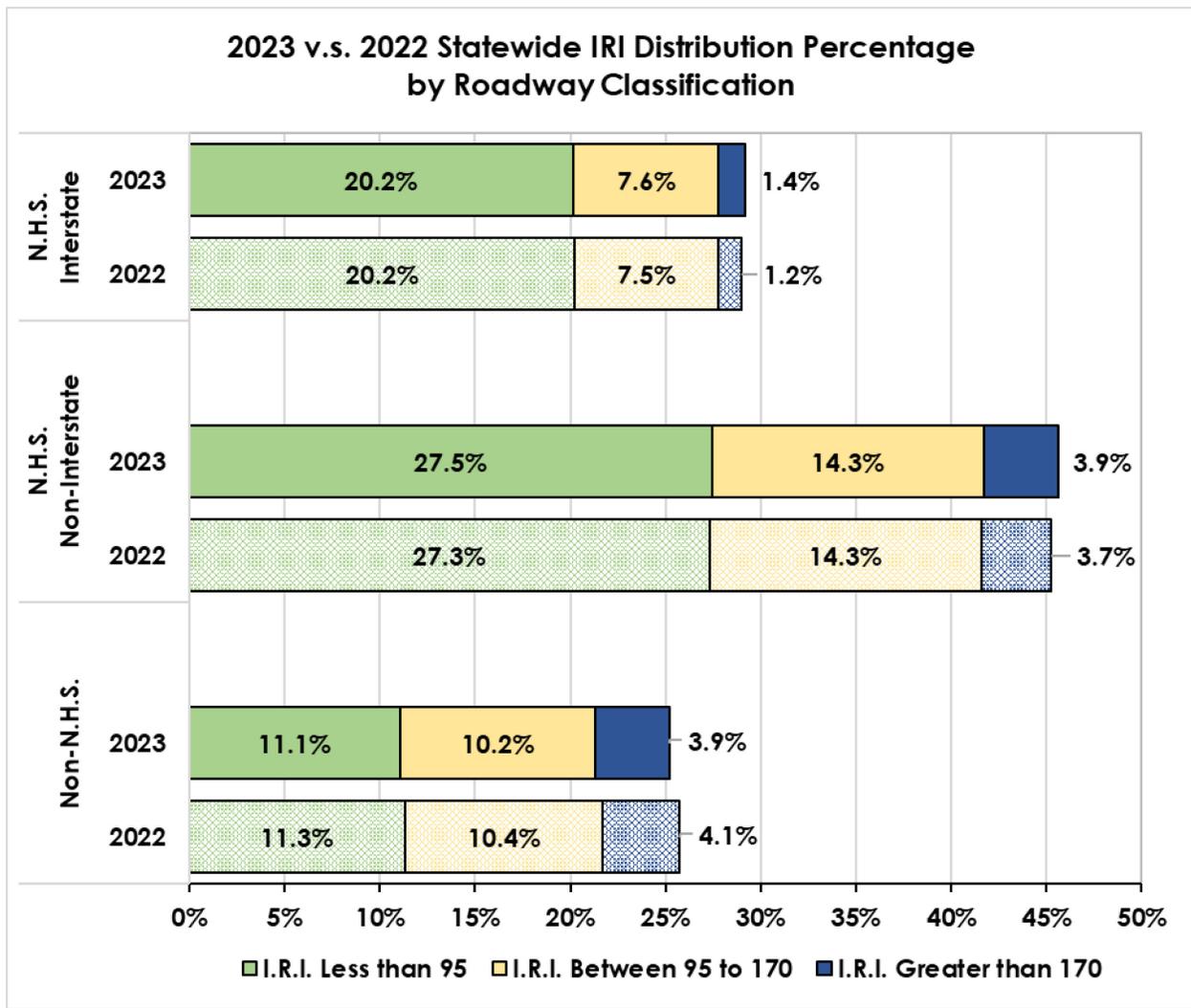


Figure 6 presents the 2022 and 2023 statewide I.R.I. distribution percentage by highway type. The percentage of pavement lane-miles with I.R.I. less than 95 inches per mile decreased for Non-N.H.S. highway types, increased for N.H.S. Non-Interstate highway types and stayed the same for N.H.S Interstate highway types in 2023 compared to 2022. The percentage of I.R.I between 95 to 170 inches per mile increased for N.H.S. Interstate highway types, stayed the same for N.H.S. Non-Interstate highway types, and decreased for Non-N.H.S. highway types. The percentage of I.R.I greater than 170 inches per mile decreased for Non N.H.S. highway types and increased for other highway types.

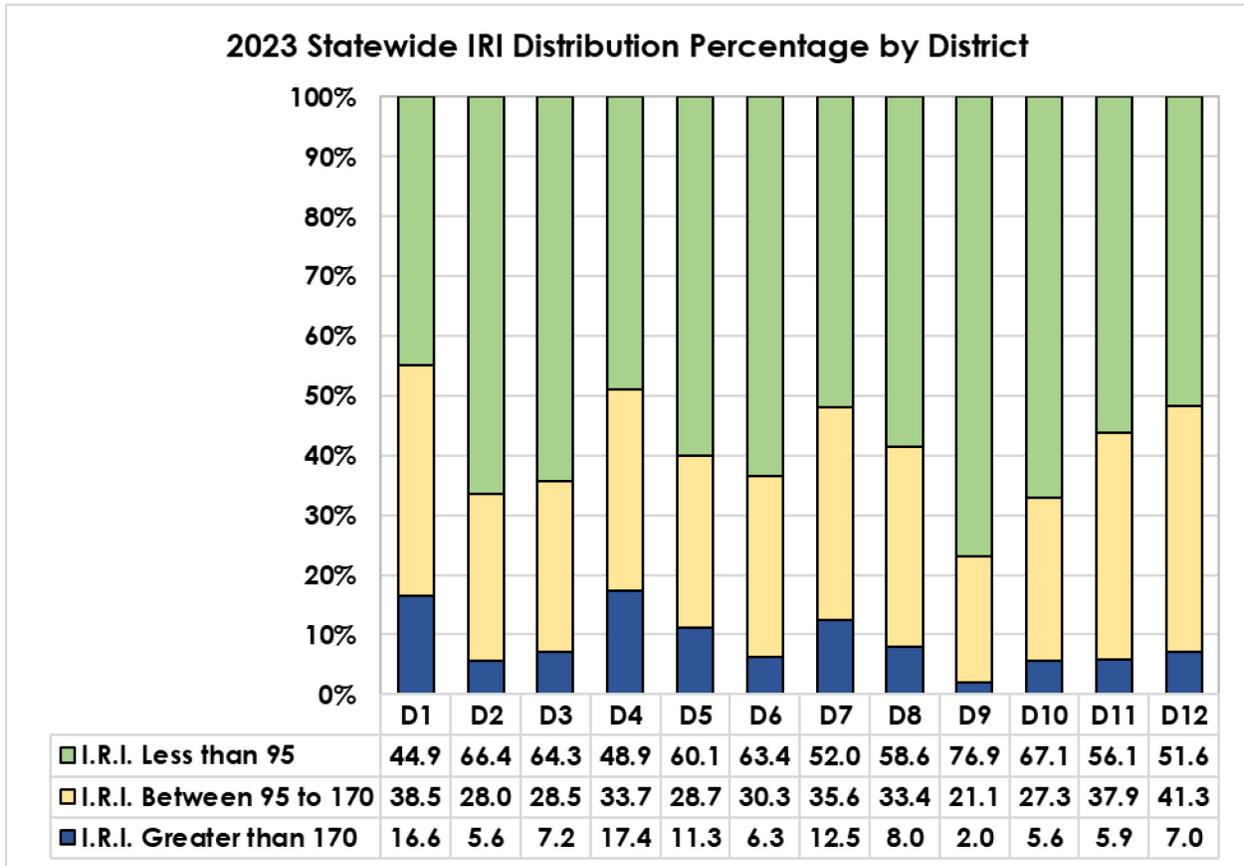
**FIGURE 6. STATEWIDE I.R.I. DISTRIBUTION PERCENTAGE BY HIGHWAY TYPE**



Pavement Roughness by District

Figure 7 presents the 2023 statewide I.R.I. distribution percentage by district.

**FIGURE 7. 2023 STATEWIDE I.R.I. DISTRIBUTION PERCENTAGE BY DISTRICT**

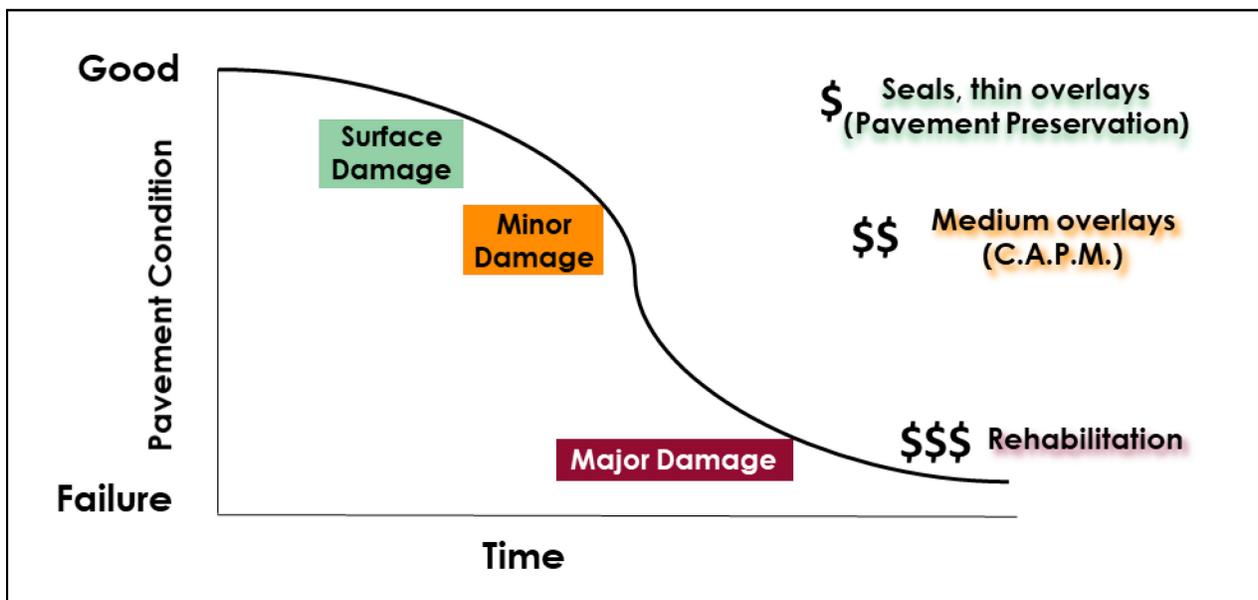


I.R.I. distribution for each district by highway type is available in Appendix F and Appendix G.

## PAVEMENT TREATMENT STRATEGIES

Pavement deterioration can be represented graphically by a sigmoid curve where the rate will be slow initially before exponentially accelerating until the pavement reaches failure. By applying timely preventive treatments, Caltrans can extend the service life of the pavement and delay the need to apply more costly treatments in the future. For example, preventive and corrective maintenance costs an average of \$240,000 per lane-mile, while major pavement rehabilitation could cost more than ten times higher. Figure 8 presents a typical pavement deterioration curve and the potential management strategies for each phase of the pavement's service life.

**FIGURE 8. ILLUSTRATION OF COST EFFECTIVENESS OF PAVEMENT STRATEGIES**



Pavement naturally deteriorates over time. Locations in relatively good condition may still be candidates for preventive and corrective treatments to maintain the pavement in a state of good repair. Studies have shown that preventive and corrective maintenance treatments can extend pavement service life by four to seven years depending on traffic volumes and environmental conditions. Preventive and corrective treatments include Hot Mix Asphalt (H.M.A.) thin overlay, chip seal, slurry seal, dig-out, concrete grinding, and concrete slab replacement. These treatments would typically be completed as a part of H.M.1 projects.

Capital Preventive Maintenance (C.A.P.M.) projects are typically applied to pavement with minor structural and poor I.R.I. pavement distresses. C.A.P.M. treatments can extend the service life by approximately five to ten years.

Treatment strategies include concrete grinding, concrete slab replacement, and H.M.A. medium overlay.

Major pavement rehabilitation is a more expensive type of treatment because it typically applies to locations with extensive existing structural distress. Rather than just surface repairs, major pavement rehabilitation requires a comprehensive pavement structure design engineered for future traffic loads over a 20-year or 40-year service life. Major rehabilitation strategies include J.P.C.P. or C.R.C.P. lane replacement, full-depth reclamation, and H.M.A. thick overlays with a thickness greater than 0.25-foot.

Table 22 provides the average costs for the three primary funding programs for pavement treatment from F.Y. 2022/23 through F.Y. 2023/24. Additional details for various treatments within each program are available in Appendix H to Appendix J.

**TABLE 22. AVERAGE COST PER LANE-MILE FOR DIFFERENT FUNDING PROGRAMS FROM F.Y. 2022/23 THROUGH F.Y. 2023/24**

<b><u>Funding Program</u></b>	<b><u>Cost per Lane-Mile</u></b>	<b><u>Expected Service Life</u></b>
H.M.1 (Preventive and Corrective Maintenance)	\$240,459	Four to seven years
C.A.P.M.	\$681,091	Five to 10 years
Major Rehabilitation	\$2,328,503	20 years or more

## PAVEMENT EXPENDITURES AND FINANCIAL PLAN

Caltrans keeps track of awarded pavement projects as a part of its fiduciary responsibility. The information also allows Caltrans to extrapolate and plan for future pavement distresses based on the expected service life of the applied treatments. Table 23 summarizes the total capital costs and lane-miles for H.M.1 and S.H.O.P.P. pavement improvements from F.Y. 2022/23 through F.Y. 2023/24. As Caltrans applies asset management principles into its project planning, programming, and delivery, pavement treatments may be incorporated into projects that include work for other roadway features as well. As a result, the costs presented in Table 23 have been filtered for pavement-related contract bid items only. Project support costs were also excluded from the analysis.

**TABLE 23. AWARDED PAVEMENT IMPROVEMENTS CAPITAL COSTS AND LANE-MILES FROM F.Y. 2022/23 TO F.Y. 2023/24**

<b><u>Funding Program</u></b>	<b><u>F.Y. 2022/23 Million Dollar<sup>3</sup></u></b>	<b><u>F.Y. 2022/23 1 Lane- Miles</u></b>	<b><u>F.Y. 2023/24 Million Dollar<sup>3</sup></u></b>	<b><u>F.Y. 2023/24 Lane- Miles</u></b>	<b><u>Total Million Dollar<sup>3</sup></u></b>	<b><u>Total Lane- Miles</u></b>
<b>H.M.1</b>	\$315	1,337	\$213	861	\$528	2,197
<b>S.H.O.P.P. – C.A.P.M.</b>	\$435	564	\$882	1,369	\$1,317	1,933
<b>S.H.O.P.P. – Rehabilitation</b>	\$940	407	\$486	205	\$1,426	612
<b>S.H.O.P.P. – Minor A</b>	\$1	1	\$3	2	\$4	4
<b>S.H.O.P.P. – Sub-Total</b>	\$1,376	972	\$1,370	1,577	\$2,746	2,549
<b>Total H.M.1 &amp; S.H.O.P.P.</b>	\$1,691	2,309	\$1,583	2,438	\$3,274	4,746

From F.Y. 2022/23 through F.Y. 2023/24, Caltrans delivered approximately \$3.274 billion in pavement projects on nearly 4,746 lane-miles of roadway. Figure 9 presents a graph of the awarded pavement improvements capital costs and number of lane-miles for the four project types from F.Y. 2022/23 through F.Y. 2023/24.

<sup>3</sup> Costs associated to pavement-related contract bid items only and exclude project support costs. It also does not include on-call maintenance contracts or Director's Order contracts.

**FIGURE 9. AWARDED PAVEMENT IMPROVEMENTS CAPITAL COSTS AND LANE-MILES FROM F.Y. 2022/23 TO F.Y. 2023/24**

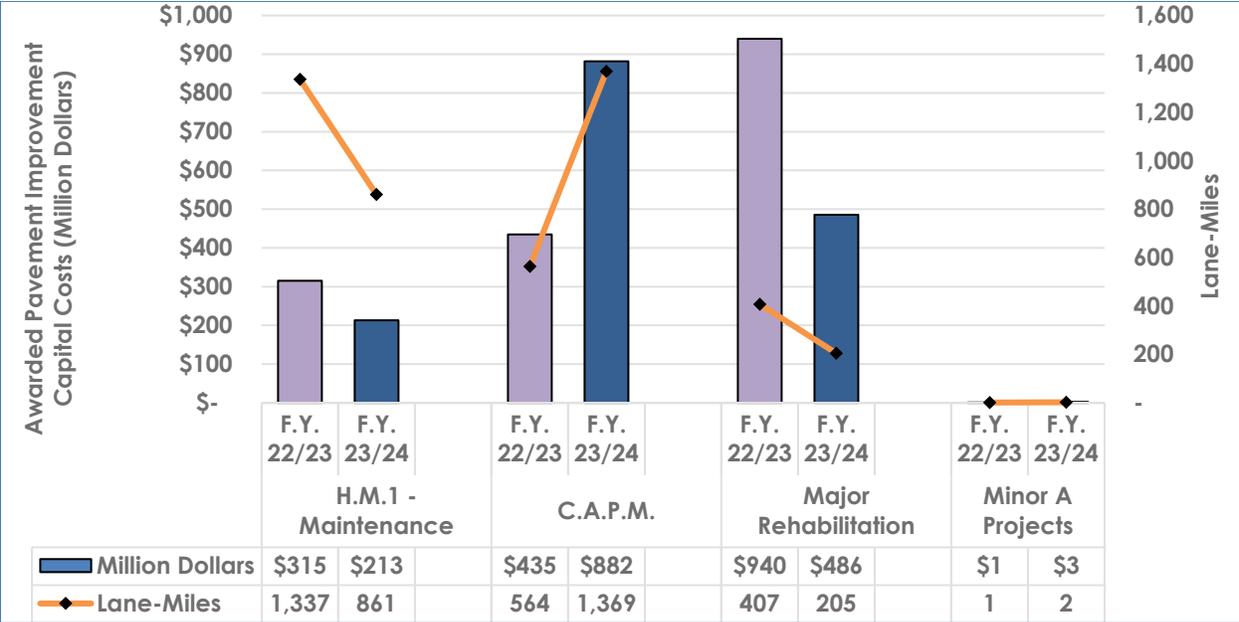
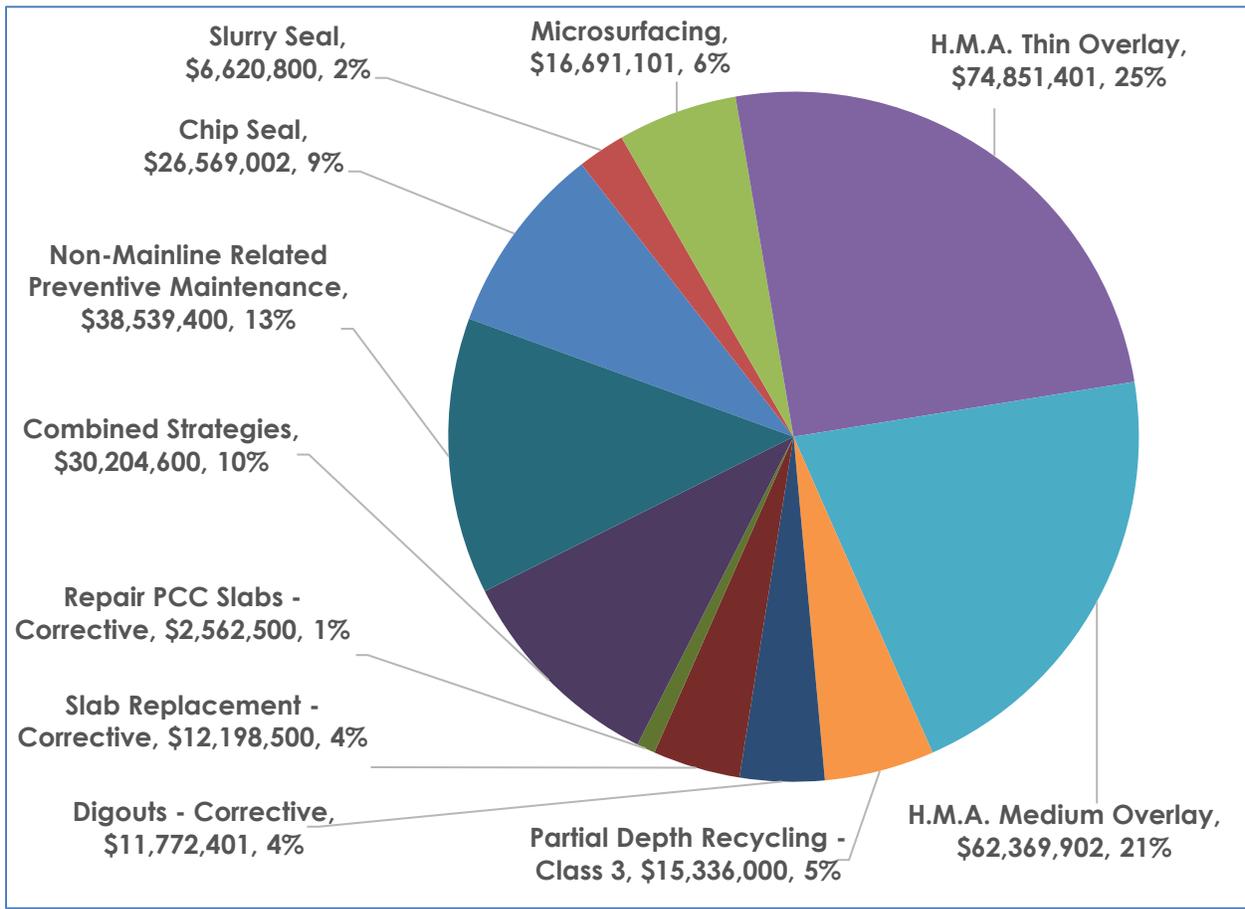


Figure 10 presents a detailed distribution of the pavement treatment strategies utilized in F.Y. 2022/23 for H.M.1 projects based on the awarded amount. H.M.A. thin overlay accounted for 25 percent of the total amounts awarded. At 21 percent, H.M.A. medium overlay was the second most awarded amount. At 13 percent, Non-Mainline Related Preventive Maintenance was the third most awarded amount.

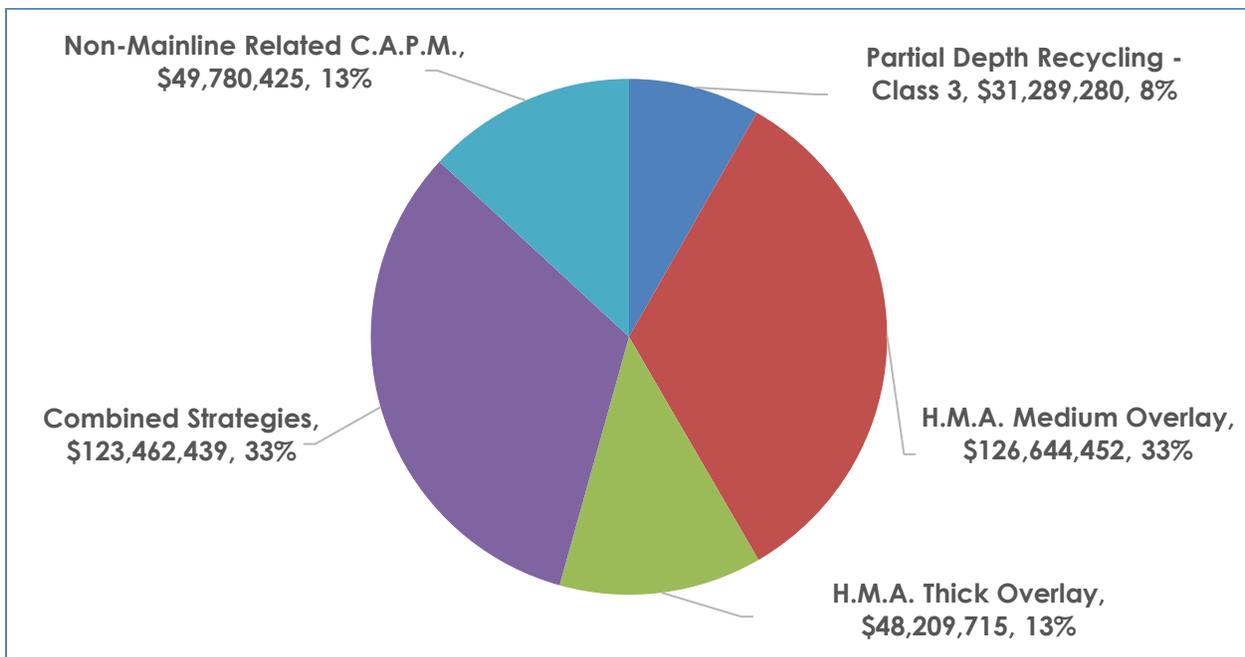
Figure 11 presents a detailed distribution of the pavement treatment strategies utilized in F.Y. 2022/23 for C.A.P.M. projects based on the awarded amount. H.M.A. medium overlay accounted for 33 percent (\$126,644,452) of the total amount awarded. At 33 percent (\$123,462,439), Combined Strategies was the second most awarded amount. Non-Mainline Related C.A.P.M was the third most awarded amount, accounting for 13 percent of the total amount.

Figure 12 presents a detailed distribution of the pavement treatment strategies utilized in F.Y. 2022/23 for major rehabilitation projects based on the awarded amount. At 100 percent, combined strategies of multiple pavement treatments in one project were the awarded amount.

**Figure 10. F.Y. 2022/23 H.M.1 Preventive and Corrective Maintenance Strategies**



**FIGURE 11. F.Y. 2022/23 C.A.P.M. STRATEGIES**



**FIGURE 12. F.Y. 2022/23 MAJOR REHABILITATION STRATEGIES**

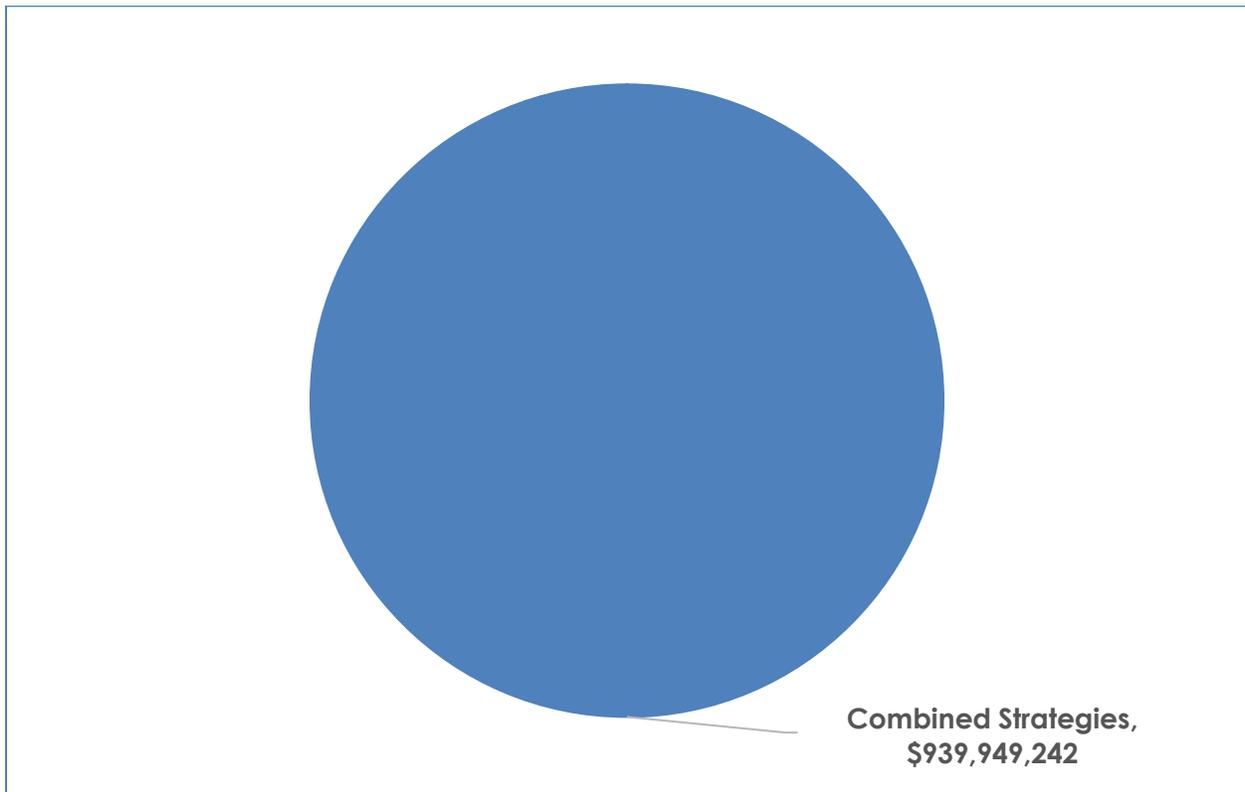
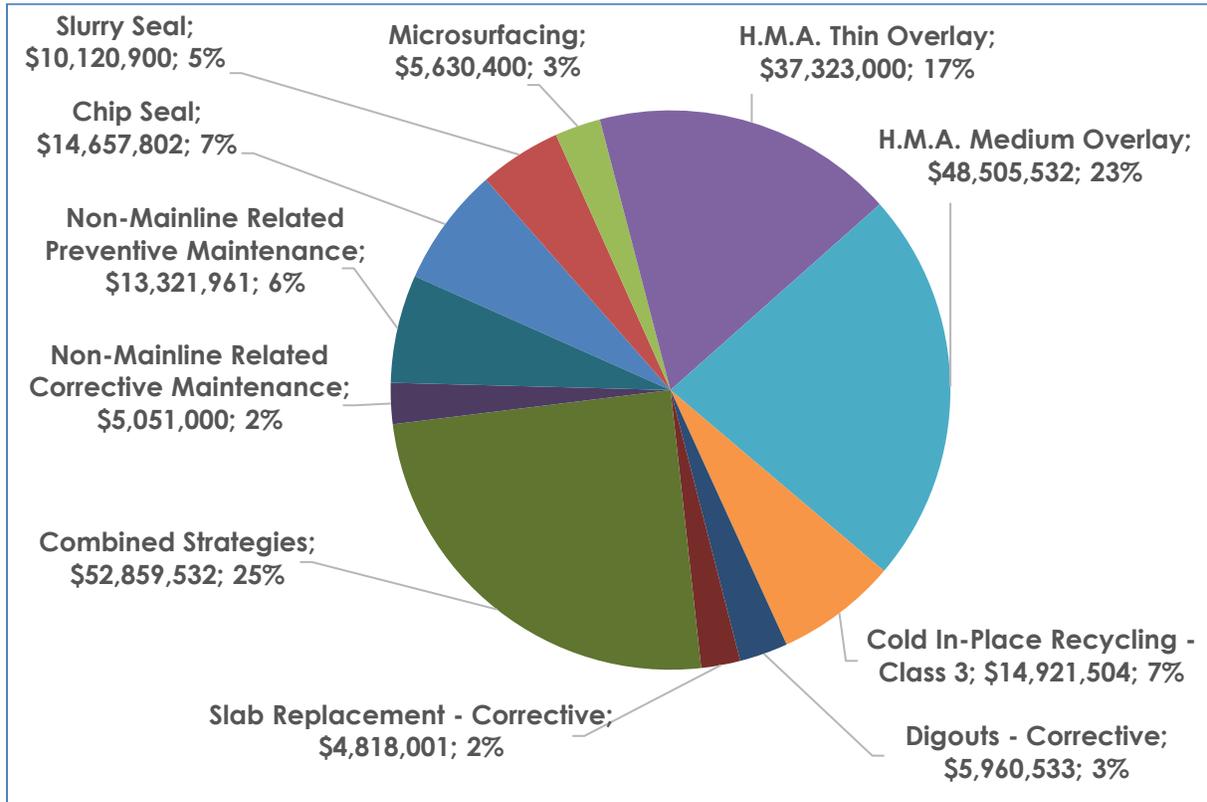


Figure 13 presents a detailed distribution of the pavement treatment strategies utilized in F.Y. 2023/24 for H.M.1 projects based on the awarded amount. Combined strategies of multiple pavement treatments accounted for 25 percent of the total awarded amount. At 23 percent, H.M.A. medium overlay was the second most awarded amount. At 17 percent, H.M.A. thin overlay was the third most awarded amount.

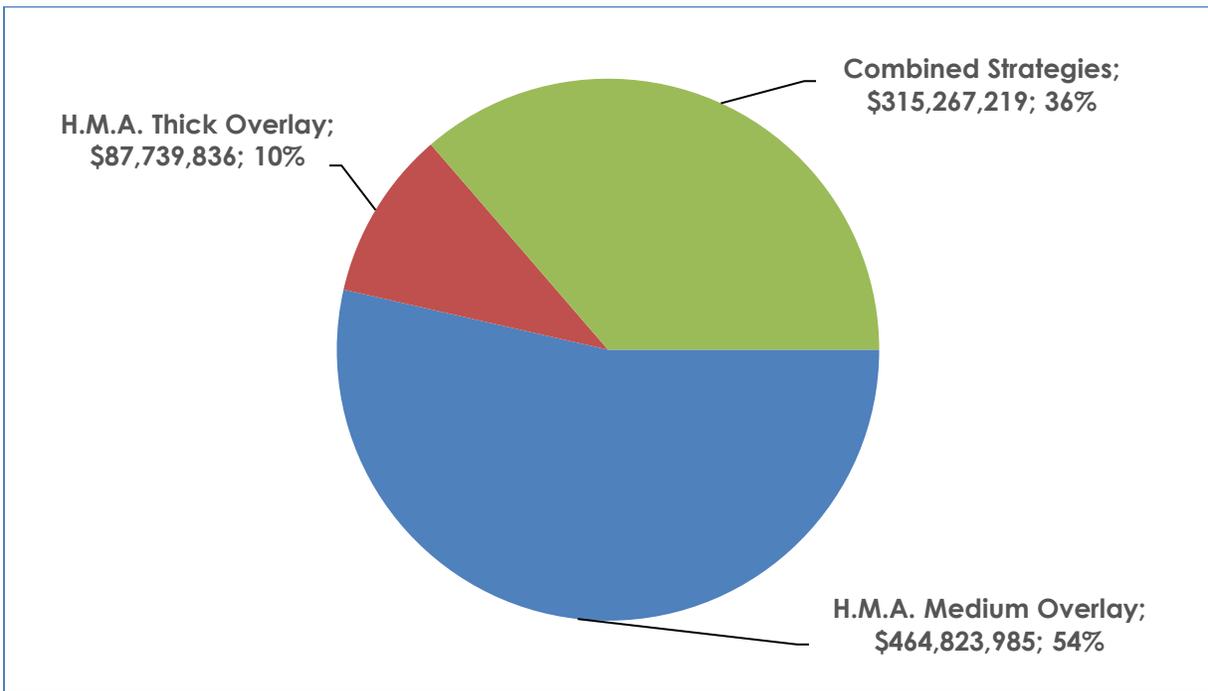
Figure 14 presents a detailed distribution of the pavement treatment strategies utilized in F.Y. 2023/24 for C.A.P.M. projects based on the awarded amount. H.M.A. medium overlay accounted for 54 percent of the total awarded amount. At 36 percent, combined strategies of multiple pavement treatments in one project were the second most awarded amount. At 10 percent, H.M.A. thick overlay was the third most awarded amount.

Figure 15 presents a detailed distribution of the pavement treatment strategies utilized in F.Y. 2023/24 for major rehabilitation projects based on the awarded amount. At 97 percent, combined strategies of multiple pavement treatments in one project were the most awarded amount. HMA lane replacement was awarded 3 percent of the total amount.

**FIGURE 13. F.Y. 2023/24 H.M.1 PREVENTIVE AND CORRECTIVE MAINTENANCE STRATEGIES**



**FIGURE 14. F.Y. 2023/24 C.A.P.M. STRATEGIES**



**FIGURE 15. F.Y. 2023/24 MAJOR REHABILITATION STRATEGIES**

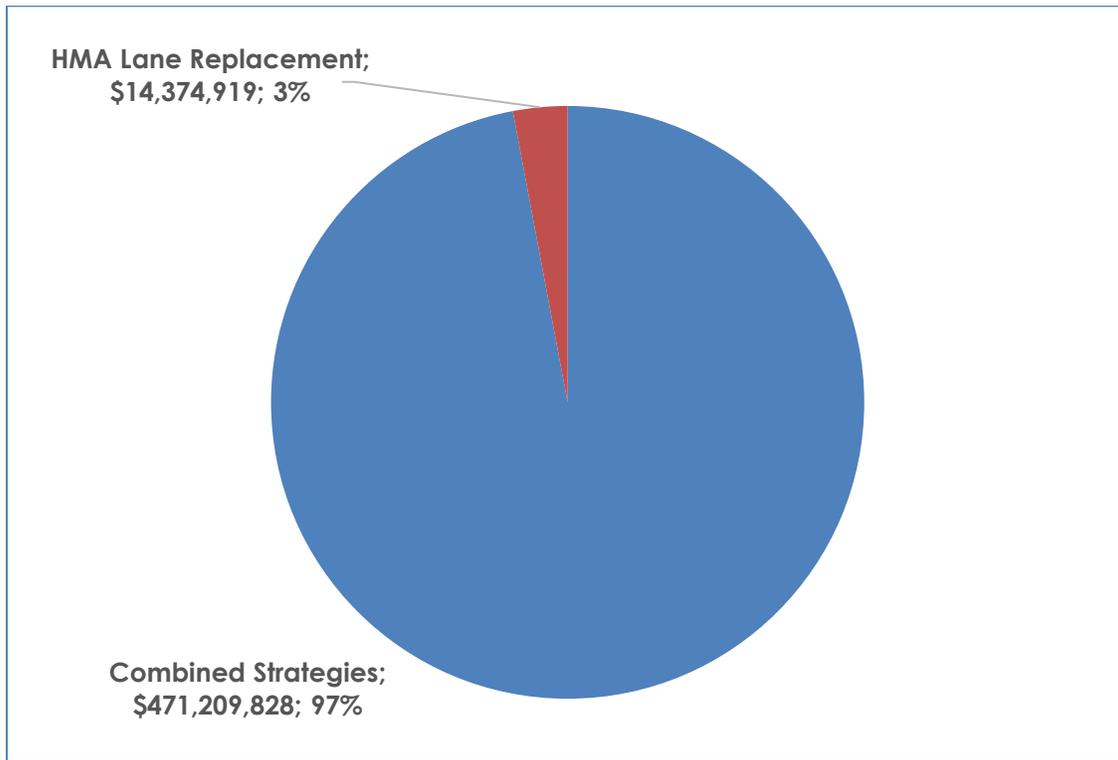
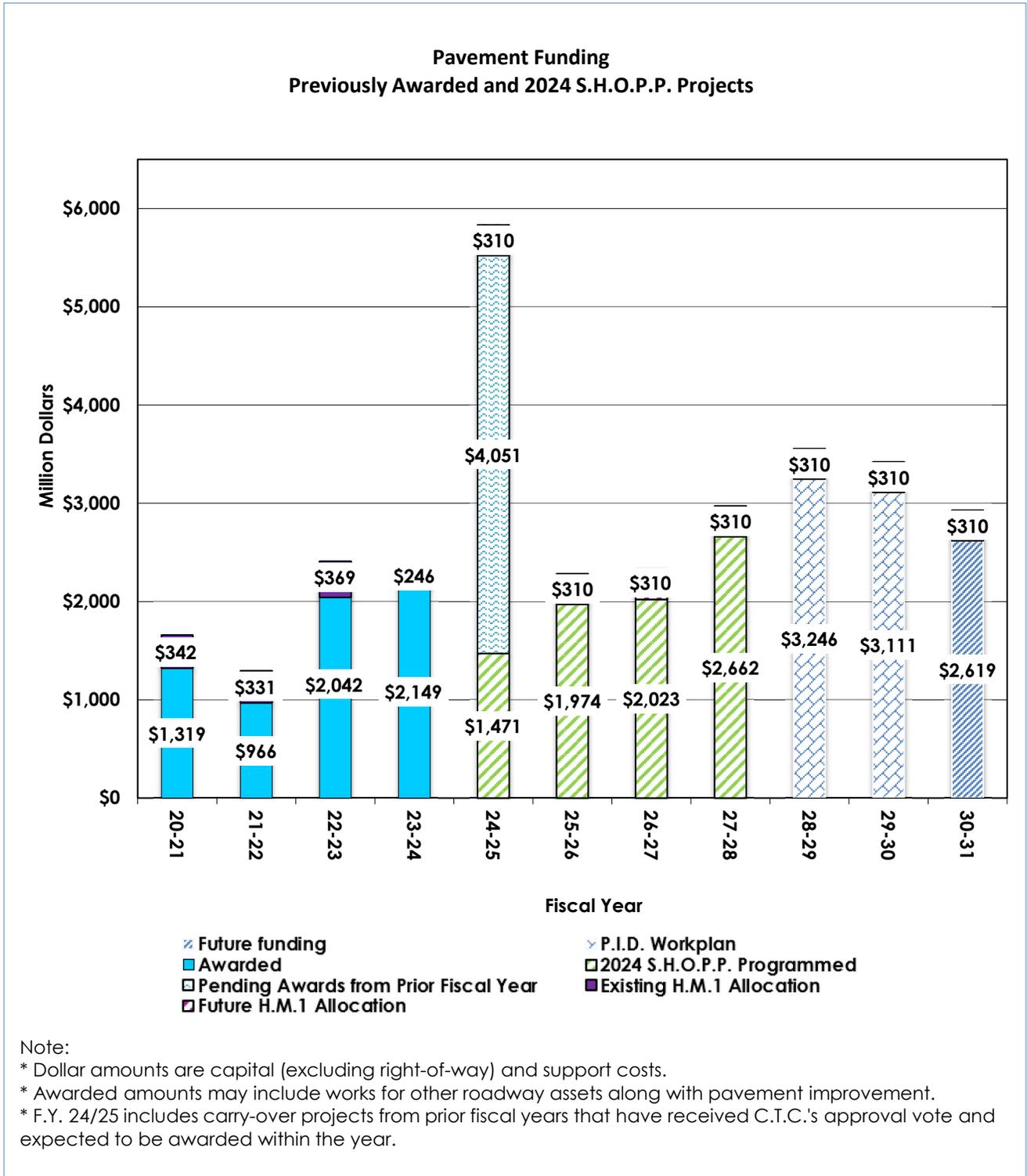


Figure 16 presents the financial plan for pavement improvements. It consists of existing expenditures as of the end of F.Y. 2023/24 and anticipated future expenditures for F.Y. 2024/25 and beyond. While the plan primarily focuses on pavement improvement projects, they may include work for other roadway features as Caltrans is committed to aligning its funding to effectively manage all its assets. The dollar amounts represent project capital (excluding right-of-way) and support costs that would be accrued as of the Ready-to-List date for construction contract advertisement. Existing expenditures include S.H.O.P.P. projects that have been awarded and annual H.M.1 allocations. Future expenditures include programmed projects from the prior fiscal year that have not been awarded, approved projects from the 2024 S.H.O.P.P plan to be programmed for F.Y. 2024/25 through F.Y. 2025/26, future H.M.1 allocations, and future projects that have been identified in the S.H.O.P.P. Project Initiation Document (P.I.D.) Workplan for F.Y. 2027/28 through F.Y. 2030/31.

**FIGURE 16. FINANCIAL PLAN FOR PAVEMENT IMPROVEMENTS**



APPENDIX A – CALTRANS DISTRICT BOUNDARY MAP



APPENDIX B – 2023 PAVEMENT CONDITION BY DISTRICT AND ROADWAY CLASSIFICATION, BASED ON FEDERAL PAVEMENT PERFORMANCE MEASURES

**TABLE 24. 2023 PAVEMENT CONDITION BY DISTRICT AND ROADWAY CLASSIFICATION, BASED ON FEDERAL PAVEMENT PERFORMANCE MEASURES**

<b>District</b>	<b>Class 1 Good</b>	<b>Class 2 Good</b>	<b>Class 3 Good</b>	<b>Class 1 Fair</b>	<b>Class 2 Fair</b>	<b>Class 3 Fair</b>	<b>Class 1 Poor</b>	<b>Class 2 Poor</b>	<b>Class 3 Poor</b>	<b>Sub- Total</b>
District 1	607 (26.5%)	299 (13.1%)	70 (3.1%)	424 (18.5%)	434 (19%)	423 (18.5%)	16 (0.7%)	2 (0.1%)	14 (0.6%)	2,290 (100%)
District 2	772 (19.6%)	917 (23.2%)	586 (14.8%)	247 (6.3%)	829 (21%)	572 (14.5%)	0 (0%)	10 (0.3%)	15 (0.4%)	3,948 (100%)
District 3	1,256 (27.9%)	1079 (24%)	269 (6%)	654 (14.5%)	785 (17.5%)	416 (9.3%)	11 (0.2%)	15 (0.3%)	10 (0.2%)	4,495 (100%)
District 4	2,302 (36.7%)	517 (8.2%)	29 (0.5%)	1,491 (23.7%)	1,506 (24%)	316 (5%)	68 (1.1%)	39 (0.6%)	10 (0.2%)	6,277 (100%)
District 5	968 (30.3%)	687 (21.5%)	173 (5.4%)	294 (9.2%)	589 (18.4%)	445 (13.9%)	12 (0.4%)	17 (0.5%)	14 (0.4%)	3,199 (100%)
District 6	1,585 (30.5%)	749 (14.4%)	777 (14.9%)	502 (9.6%)	879 (16.9%)	634 (12.2%)	37 (0.7%)	28 (0.5%)	13 (0.3%)	5,203 (100%)
District 7	2,136 (34.9%)	411 (6.7%)	14 (0.2%)	2,366 (38.6%)	895 (14.6%)	127 (2.1%)	136 (2.2%)	41 (0.7%)	0 (0%)	6,127 (100%)
District 8	2,967 (42.9%)	601 (8.7%)	143 (2.1%)	1,824 (26.3%)	1,094 (15.8%)	165 (2.4%)	75 (1.1%)	41 (0.6%)	13 (0.2%)	6,923 (100%)
District 9	1,221 (47.6%)	419 (16.3%)	232 (9%)	328 (12.8%)	174 (6.8%)	186 (7.3%)	6 (0.2%)	0 (0%)	0 (0%)	2,566 (100%)
District 10	935 (27.2%)	898 (26.1%)	332 (9.7%)	317 (9.2%)	666 (19.4%)	256 (7.4%)	5 (0.1%)	31 (0.9%)	2 (0.1%)	3,442 (100%)
District 11	1,624 (38.6%)	331 (7.9%)	181 (4.3%)	1,099 (26.1%)	726 (17.3%)	222 (5.3%)	13 (0.3%)	8 (0.2%)	1 (0%)	4,205 (100%)
District 12	754 (36.7%)	224 (10.9%)	0 (0%)	744 (36.2%)	315 (15.3%)	0 (0%)	11 (0.5%)	5 (0.3%)	0 (0%)	2,053 (100%)
<b>Statewide Total</b>	<b>17,128 (33.8%)</b>	<b>7,131 (14.1%)</b>	<b>2806 (5.5%)</b>	<b>10,289 (20.3%)</b>	<b>8,893 (17.5%)</b>	<b>3,761 (7.4%)</b>	<b>389 (0.8%)</b>	<b>238 (0.5%)</b>	<b>91 (0.2%)</b>	<b>50,728 (100%)</b>

APPENDIX C – 2022 PAVEMENT CONDITION BY DISTRICT AND ROADWAY CLASSIFICATION, BASED ON FEDERAL PAVEMENT PERFORMANCE MEASURES

**TABLE 25. 2022 PAVEMENT CONDITION BY DISTRICT AND ROADWAY CLASSIFICATION, BASED ON FEDERAL PAVEMENT PERFORMANCE MEASURES**

<b>District</b>	<b>Class 1 Good</b>	<b>Class 2 Good</b>	<b>Class 3 Good</b>	<b>Class 1 Fair</b>	<b>Class 2 Fair</b>	<b>Class 3 Fair</b>	<b>Class 1 Poor</b>	<b>Class 2 Poor</b>	<b>Class 3 Poor</b>	<b>Sub- Total</b>
District 1	614 (26.8%)	302 (13.2%)	78 (3.4%)	406 (17.8%)	427 (18.7%)	428 (18.7%)	15 (0.6%)	2 (0.1%)	14 (0.6%)	2,286 (100%)
District 2	779 (19.7%)	809 (20.4%)	561 (14.2%)	243 (6.1%)	964 (24.3%)	579 (14.6%)	0 (0%)	6 (0.2%)	19 (0.5%)	3,961 (100%)
District 3	1,216 (27.6%)	1,081 (24.5%)	274 (6.2%)	617 (14%)	777 (17.6%)	407 (9.2%)	7 (0.2%)	13 (0.3%)	14 (0.3%)	4,407 (100%)
District 4	2,285 (37.1%)	475 (7.7%)	30 (0.5%)	1,417 (23%)	1,512 (24.5%)	323 (5.2%)	61 (1%)	51 (0.8%)	11 (0.2%)	6,165 (100%)
District 5	943 (29.8%)	682 (21.5%)	149 (4.7%)	288 (9.1%)	602 (19%)	462 (14.6%)	10 (0.3%)	14 (0.5%)	15 (0.5%)	3,165 (100%)
District 6	1,554 (29.8%)	771 (14.8%)	826 (15.9%)	525 (10.1%)	895 (17.2%)	567 (10.9%)	39 (0.7%)	23 (0.4%)	8 (0.2%)	5,208 (100%)
District 7	2,074 (33.5%)	438 (7.1%)	28 (0.5%)	2,331 (37.7%)	951 (15.4%)	201 (3.3%)	126 (2%)	34 (0.5%)	0 (0%)	6,184 (100%)
District 8	2,897 (42.3%)	666 (9.7%)	147 (2.1%)	1,831 (26.7%)	1,029 (15%)	166 (2.4%)	77 (1.1%)	35 (0.5%)	9 (0.1%)	6,858 (100%)
District 9	1,204 (47.7%)	392 (15.5%)	220 (8.7%)	335 (13.3%)	196 (7.8%)	170 (6.7%)	4 (0.2%)	2 (0.1%)	0 (0%)	2,523 (100%)
District 10	960 (27.4%)	882 (25.2%)	311 (8.9%)	308 (8.8%)	728 (20.8%)	281 (8%)	4 (0.1%)	30 (0.9%)	1 (0%)	3,504 (100%)
District 11	1,630 (38.2%)	332 (7.8%)	152 (3.6%)	1,155 (27.1%)	722 (16.9%)	247 (5.8%)	14 (0.3%)	8 (0.2%)	4 (0.1%)	4,263 (100%)
District 12	752 (36.1%)	204 (9.8%)	0 (0%)	781 (37.5%)	332 (15.9%)	0 (0%)	10 (0.5%)	4 (0.2%)	0 (0%)	2,082 (100%)
<b>Statewide Total</b>	16,907 (33.4%)	7,035 (13.9%)	2,776 (5.5%)	10,237 (20.2%)	9,136 (18.1%)	3,830 (7.6%)	368 (0.7%)	224 (0.4%)	95 (0.2%)	50,607 (100%)

APPENDIX D – 2023 PAVEMENT CONDITION BY DISTRICT AND ROADWAY CLASSIFICATION, BASED ON CALTRANS PAVEMENT RATING SYSTEM

**TABLE 26. 2023 PAVEMENT CONDITION BY DISTRICT AND ROADWAY CLASSIFICATION, BASED ON CALTRANS PAVEMENT RATING SYSTEM**

<b>District</b>	<b>Class 1 Green</b>	<b>Class 2 Green</b>	<b>Class 3 Green</b>	<b>Class 1 Yellow</b>	<b>Class 2 Yellow</b>	<b>Class 3 Yellow</b>	<b>Class 1 Red</b>	<b>Class 2 Red</b>	<b>Class 3 Red</b>	<b>Sub- Total</b>
<b>District 1</b>	737 (32.2%)	412 (18%)	217 (9.5%)	224 (9.8%)	195 (8.5%)	81 (3.5%)	87 (3.8%)	128 (5.6%)	209 (9.1%)	2,290 (100%)
<b>District 2</b>	634 (16.1%)	601 (15.2%)	535 (13.5%)	357 (9%)	987 (25%)	459 (11.6%)	29 (0.7%)	169 (4.3%)	178 (4.5%)	3,948 (100%)
<b>District 3</b>	1,387 (30.9%)	1,111 (24.7%)	347 (7.7%)	410 (9.1%)	568 (12.6%)	188 (4.2%)	123 (2.7%)	200 (4.4%)	161 (3.6%)	4,495 (100%)
<b>District 4</b>	3,078 (49%)	938 (14.9%)	99 (1.6%)	390 (6.2%)	422 (6.7%)	58 (0.9%)	392 (6.3%)	701 (11.2%)	198 (3.2%)	6,277 (100%)
<b>District 5</b>	877 (27.4%)	758 (23.7%)	251 (7.9%)	326 (10.2%)	315 (9.9%)	127 (4%)	71 (2.2%)	221 (6.9%)	252 (7.9%)	3,199 (100%)
<b>District 6</b>	1,740 (33.4%)	898 (17.3%)	787 (15.1%)	259 (5%)	465 (8.9%)	425 (8.2%)	125 (2.4%)	293 (5.6%)	211 (4.1%)	5,203 (100%)
<b>District 7</b>	3,504 (57.2%)	565 (9.2%)	50 (0.8%)	289 (4.7%)	328 (5.4%)	19 (0.3%)	845 (13.8%)	454 (7.4%)	72 (1.2%)	6,127 (100%)
<b>District 8</b>	3,396 (49.1%)	611 (8.8%)	142 (2%)	879 (12.7%)	609 (8.8%)	48 (0.7%)	590 (8.5%)	517 (7.5%)	131 (1.9%)	6,923 (100%)
<b>District 9</b>	960 (37.4%)	409 (16%)	294 (11.5%)	496 (19.3%)	160 (6.2%)	104 (4%)	98 (3.8%)	24 (0.9%)	20 (0.8%)	2,566 (100%)
<b>District 10</b>	1,025 (29.8%)	682 (19.8%)	253 (7.4%)	154 (4.5%)	690 (20.1%)	269 (7.8%)	78 (2.3%)	222 (6.5%)	68 (2%)	3,442 (100%)
<b>District 11</b>	2,241 (53.3%)	579 (13.8%)	246 (5.9%)	269 (6.4%)	296 (7%)	107 (2.5%)	227 (5.4%)	190 (4.5%)	50 (1.2%)	4,205 (100%)
<b>District 12</b>	1,255 (61.1%)	365 (17.8%)	0 (0%)	118 (5.7%)	84 (4.1%)	0 (0%)	136 (6.6%)	96 (4.7%)	0 (0%)	2,053 (100%)
<b>Statewide Total</b>	20,833 (41.1%)	7,929 (15.6%)	3,222 (6.4%)	4,171 (8.2%)	5,120 (10.1%)	1,885 (3.7%)	2,802 (5.5%)	3,214 (6.3%)	1,553 (3.1%)	50,728 (100%)

APPENDIX E – 2022 PAVEMENT CONDITION BY DISTRICT AND ROADWAY CLASSIFICATION, BASED ON CALTRANS PAVEMENT RATING SYSTEM

**TABLE 27. 2022 PAVEMENT CONDITION BY DISTRICT AND ROADWAY CLASSIFICATION, BASED ON CALTRANS PAVEMENT RATING SYSTEM**

<b>District</b>	<b>Class 1 Green</b>	<b>Class 2 Green</b>	<b>Class 3 Green</b>	<b>Class 1 Yellow</b>	<b>Class 2 Yellow</b>	<b>Class 3 Yellow</b>	<b>Class 1 Red</b>	<b>Class 2 Red</b>	<b>Class 3 Red</b>	<b>Sub-Total</b>
District 1	760 (33.3%)	435 (19%)	222 (9.7%)	199 (8.7%)	170 (7.4%)	88 (3.9%)	75 (3.3%)	126 (5.5%)	210 (9.2%)	2,286 (100%)
District 2	675 (17.1%)	723 (18.3%)	544 (13.7%)	315 (8%)	910 (23%)	431 (10.9%)	32 (0.8%)	146 (3.7%)	184 (4.7%)	3,961 (100%)
District 3	1,373 (31.2%)	1,193 (27.1%)	349 (7.9%)	364 (8.3%)	462 (10.5%)	166 (3.8%)	103 (2.3%)	217 (4.9%)	180 (4.1%)	4,407 (100%)
District 4	3,028 (49.1%)	899 (14.6%)	108 (1.7%)	388 (6.3%)	407 (6.6%)	55 (0.9%)	348 (5.6%)	732 (11.9%)	200 (3.2%)	6,165 (100%)
District 5	886 (28%)	763 (24.1%)	221 (7%)	293 (9.3%)	303 (9.6%)	143 (4.5%)	63 (2%)	232 (7.3%)	263 (8.3%)	3,165 (100%)
District 6	1,747 (33.5%)	997 (19.2%)	832 (16%)	231 (4.4%)	400 (7.7%)	376 (7.2%)	140 (2.7%)	291 (5.6%)	192 (3.7%)	5,208 (100%)
District 7	3,469 (56.1%)	674 (10.9%)	123 (2%)	284 (4.6%)	298 (4.8%)	28 (0.4%)	778 (12.6%)	452 (7.3%)	79 (1.3%)	6,184 (100%)
District 8	3,419 (49.9%)	663 (9.7%)	139 (2%)	848 (12.4%)	634 (9.2%)	69 (1%)	539 (7.9%)	434 (6.3%)	113 (1.6%)	6,858 (100%)
District 9	971 (38.5%)	385 (15.3%)	273 (10.8%)	484 (19.2%)	161 (6.4%)	95 (3.8%)	88 (3.5%)	44 (1.7%)	22 (0.9%)	2,523 (100%)
District 10	1,060 (30.3%)	791 (22.6%)	273 (7.8%)	137 (3.9%)	585 (16.7%)	202 (5.8%)	74 (2.1%)	263 (7.5%)	119 (3.4%)	3,504 (100%)
District 11	2,304 (54.1%)	607 (14.2%)	236 (5.5%)	247 (5.8%)	277 (6.5%)	108 (2.5%)	247 (5.8%)	179 (4.2%)	59 (1.4%)	4,263 (100%)
District 12	1,296 (62.2%)	347 (16.6%)	0 (0%)	118 (5.7%)	90 (4.3%)	0 (0%)	128 (6.2%)	103 (5%)	0 (0%)	2,082 (100%)
<b>Statewide Total</b>	20,989 (41.5%)	8,479 (16.8%)	3,320 (6.6%)	3,908 (7.7%)	4,697 (9.3%)	1,760 (3.5%)	2,615 (5.2%)	3,218 (6.4%)	1,620 (3.2%)	50,607 (100%)

**TABLE 28. 2023 N.H.S. INTERSTATE I.R.I.**

<u>District</u>	<u>Lane-Miles of I.R.I. Less Than 95</u>	<u>Lane-Miles of I.R.I. Between 95 to 170</u>	<u>Lane-Miles of I.R.I. Greater Than 170</u>	<u>Sub-Total</u>
District 1	-	-	-	-
District 2	677	59	7	743
District 3	990	337	50	1,377
District 4	1,595	616	140	2,351
District 5	-	-	-	-
District 6	634	107	35	776
District 7	1,540	893	231	2,665
District 8	2,404	962	141	3,507
District 9	-	-	-	-
District 10	525	90	26	640
District 11	1,479	471	40	1,990
District 12	384	336	40	760
<b>Statewide Total</b>	<b>10,229</b>	<b>3,871</b>	<b>709</b>	<b>14,809</b>

**TABLE 29. 2023 N.H.S. NON-INTERSTATE I.R.I.**

<u>District</u>	<u>Lane-Miles of I.R.I. Less Than 95</u>	<u>Lane-Miles of I.R.I. Between 95 to 170</u>	<u>Lane-Miles of I.R.I. Greater Than 170</u>	<u>Sub-Total</u>
District 1	814	426	74	1,314
District 2	1,037	384	40	1,461
District 3	1,315	363	88	1,766
District 4	1,310	1,150	548	3,008
District 5	1,416	411	85	1,912
District 6	1,716	786	134	2,636
District 7	1,599	1,185	445	3,229
District 8	1,025	708	221	1,955
District 9	1,348	249	18	1,615
District 10	1,106	482	125	1,714
District 11	567	610	85	1,263
District 12	675	488	93	1,256
<b>Statewide Total</b>	<b>13,928</b>	<b>7,244</b>	<b>1,956</b>	<b>23,128</b>

**TABLE 30. 2023 NON-N.H.S. I.R.I.**

<b>District</b>	<b><u>Lane-Miles of I.R.I. Less Than 95</u></b>	<b><u>Lane-Miles of I.R.I. Between 95 to 170</u></b>	<b><u>Lane-Miles of I.R.I. Greater Than 170</u></b>	<b><u>Sub-Total</u></b>
<b>District 1</b>	215	456	305	976
<b>District 2</b>	906	664	175	1,744
<b>District 3</b>	587	580	185	1,352
<b>District 4</b>	165	350	404	919
<b>District 5</b>	506	506	275	1,286
<b>District 6</b>	947	685	159	1,791
<b>District 7</b>	44	102	88	233
<b>District 8</b>	627	641	193	1,462
<b>District 9</b>	626	292	33	951
<b>District 10</b>	679	368	41	1,088
<b>District 11</b>	315	514	123	952
<b>District 12</b>	1	25	11	37
<b>Statewide Total</b>	5,617	5,181	1,993	12,791

APPENDIX G – 2022 I.R.I. DISTRIBUTION BY DISTRICT AND HIGHWAY TYPE

**TABLE 31. 2022 N.H.S. INTERSTATE I.R.I.**

<u>District</u>	<u>Lane-Miles of I.R.I. Less Than 95</u>	<u>Lane-Miles of I.R.I. Between 95 to 170</u>	<u>Lane-Miles of I.R.I. Greater Than 170</u>	<u>Sub-Total</u>
District 1	-	-	-	-
District 2	688	44	3	734
District 3	960	337	38	1,334
District 4	1,625	586	125	2,335
District 5	-	-	-	-
District 6	630	109	38	777
District 7	1,507	845	224	2,577
District 8	2,441	919	105	3,464
District 9	-	-	-	-
District 10	532	87	16	635
District 11	1,487	526	39	2,052
District 12	373	357	44	775
<b>Statewide Total</b>	<b>10,242</b>	<b>3,809</b>	<b>632</b>	<b>14,684</b>

**TABLE 32. 2022 N.H.S. NON-INTERSTATE I.R.I.**

<u>District</u>	<u>Lane-Miles of I.R.I. Less Than 95</u>	<u>Lane-Miles of I.R.I. Between 95 to 170</u>	<u>Lane-Miles of I.R.I. Greater Than 170</u>	<u>Sub-Total</u>
District 1	825	414	58	1,297
District 2	1,069	359	28	1,456
District 3	1,294	339	73	1,706
District 4	1,245	1,118	540	2,903
District 5	1,392	402	80	1,873
District 6	1,730	795	134	2,659
District 7	1,585	1,208	411	3,204
District 8	967	766	199	1,932
District 9	1,353	237	14	1,603
District 10	1,096	494	143	1,733
District 11	585	590	84	1,259
District 12	676	494	100	1,270
<b>Statewide Total</b>	<b>13,818</b>	<b>7,216</b>	<b>1,862</b>	<b>22,895</b>

**TABLE 33. 2022 NON-N.H.S. I.R.I.**

<b>District</b>	<b><u>Lane-Miles of I.R.I. Less Than 95</u></b>	<b><u>Lane-Miles of I.R.I. Between 95 to 170</u></b>	<b><u>Lane-Miles of I.R.I. Greater Than 170</u></b>	<b><u>Sub-Total</u></b>
<b>District 1</b>	228	457	304	989
<b>District 2</b>	911	698	162	1,771
<b>District 3</b>	610	567	189	1,367
<b>District 4</b>	141	362	424	927
<b>District 5</b>	502	531	260	1,292
<b>District 6</b>	1,009	616	147	1,772
<b>District 7</b>	60	203	141	404
<b>District 8</b>	690	613	159	1,461
<b>District 9</b>	589	294	36	920
<b>District 10</b>	687	331	118	1,136
<b>District 11</b>	297	545	111	952
<b>District 12</b>	1	24	12	37
<b>Statewide Total</b>	5,726	5,240	2,061	13,028

APPENDIX H – H.M.1 MAINTENANCE STRATEGY COST PER LANE-MILE AND LANE-MILES TREATED FOR F.Y. 2022/23 THROUGH F.Y. 2023/24

**TABLE 34. H.M.1 MAINTENANCE STRATEGY COST PER LANE-MILE**

<u>H.M.1 Treatment Type</u>	<u>F.Y. 2022/23 Cost<sup>4</sup> per Lane-Mile</u>	<u>F.Y. 2023/24 Cost<sup>4</sup> per Lane-Mile</u>	<u>Weighted Average of Cost<sup>4</sup> per Lane-Mile</u>
Chip Seal	\$ 96,166	\$ 80,449	\$ 89,920
Slurry Seal	\$ 102,822	\$ 100,635	\$ 101,489
Micro Surfacing	\$ 109,259	\$ 127,189	\$ 113,288
H.M.A. Thin Overlay	\$ 216,729	\$ 252,416	\$ 227,427
H.M.A. Medium Overlay	\$ 299,828	\$ 318,301	\$ 307,639
Partial Depth Recycling - Class 3	\$ 319,820	\$ 378,219	\$ 346,180
Dig Outs - Corrective	\$ 888,483	\$ 775,505	\$ 847,007
Slab Replacement - Corrective	\$ 2,589,915	\$ 3,706,155	\$ 2,831,365
Repair PCC Slabs - Corrective	\$ 4,418,103	N/A	\$ 4,418,103
Seal Coat - Preventive	\$ 113,272	N/A	\$ 113,272
Combined Strategies	\$ 437,045	\$ 285,408	\$ 326,615

**TABLE 35. H.M.1 MAINTENANCE STRATEGY LANE-MILES TREATED**

<u>H.M.1 Treatment Type</u>	<u>F.Y. 2022/23 Lane-Miles Treated</u>	<u>F.Y. 2023/24 Lane-Miles Treated</u>	<u>Average of Lane-Miles Treated</u>
Chip Seal	276	182	229
Slurry Seal	64	101	82
Micro Surfacing	153	44	99
H.M.A. Thin Overlay	345	148	247
H.M.A. Medium Overlay	208	152	180
Partial Depth Recycling - Class 3	48	39	44
Dig Outs - Corrective	13	8	10
Slab Replacement - Corrective	5	1	3
Repair PCC Slabs - Corrective	1	N/A	1
Seal Coat - Preventive	154	N/A	154
Combined Strategies	69	185	127

<sup>4</sup> Costs associated to pavement-related contract bid items only and exclude project support costs. It does not also include on-call maintenance contracts or Director's Order contracts.

APPENDIX I – S.H.O.P.P. - C.A.P.M. STRATEGY COST PER LANE-MILE AND LANE-MILES TREATED FOR F.Y. 2022/23 THROUGH F.Y. 2023/24

**TABLE 36. C.A.P.M. STRATEGY COST PER LANE-MILE**

<b><u>C.A.P.M. Treatment Type</u></b>	<b><u>F.Y. 2022/23 Cost<sup>5</sup> per Lane-Mile</u></b>	<b><u>F.Y. 2023/24 Cost<sup>5</sup> per Lane-Mile</u></b>	<b><u>Weighted Average of Cost<sup>5</sup> per Lane-Mile</u></b>
Partial Depth Recycling	\$ 469,873	N/A	\$ 469,873
H.M.A. Medium Overlay	\$ 644,783	\$ 586,036	\$ 597,696
H.M.A. Thick Overlay	\$ 600,909	\$753,902	\$ 691,472
Slab Replacement-C.A.P.M.	\$ 6,224,582	\$ 6,314,101	\$ 6,242,325
Combined Strategies	\$ 584,023	\$ 688,884	\$ 655,751

**TABLE 37. C.A.P.M. STRATEGY LANE-MILES TREATED**

<b><u>C.A.P.M. Treatment Type</u></b>	<b><u>F.Y. 2022/23 Lane-Miles Treated</u></b>	<b><u>F.Y. 2023/24 Lane-Miles Treated</u></b>	<b><u>Average of Lane-Miles Treated</u></b>
Cold In-Place Recycling	67	0	33
Grind/Replace Slabs – C.A.P.M.	196	793	495
H.M.A. Medium Overlay	80	116	98
H.M.A. Thick Overlay	9	2	6
Combined Strategies	211	458	335

<sup>5</sup> Costs associated to pavement-related contract bid items only and exclude project support costs. It does not also include on-call maintenance contracts or Director's Order contracts.

APPENDIX J – S.H.O.P.P. - REHABILITATION STRATEGY COST PER LANE-MILE AND LANE-MILES TREATED FOR F.Y. 2022/23 THROUGH F.Y. 2023/24

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**TABLE 38. REHABILITATION STRATEGY COST PER LANE-MILE**

<u>Rehabilitation Treatment Type</u>	<u>F.Y. 2022/23 Cost<sup>6</sup> per Lane-Mile</u>	<u>F.Y. 2023/24 Cost<sup>6</sup> per Lane-Mile</u>	<u>Weighted Average of Cost<sup>6</sup> per Lane-Mile</u>
H.M.A. Lane Replacement	N/A	\$2,163,594	\$2,163,594
Combined Strategies	\$2,308,646	\$2,374,942	\$2,330,368

**TABLE 39. REHABILITATION STRATEGY LANE-MILES TREATED**

<u>Rehabilitation Treatment Type</u>	<u>F.Y. 2022/23 Lane-Miles Treated</u>	<u>F.Y. 2023/24 Lane-Miles Treated</u>	<u>Average of Lane-Miles Treated</u>
H.M.A. Lane Replacement	N/A	7	7
Combined Strategies	407	198	303

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<sup>6</sup> Costs associated to pavement-related contract bid items only and exclude project support costs. It does not also include on-call maintenance contracts or Director's Order contracts.

**TABLE 40. 2023 PAVEMENT CONDITION BY DISTRICT, PAVEMENT TYPE, AND ROADWAY CLASSIFICATION, BASED ON FEDERAL PAVEMENT PERFORMANCE MEASURES**

		Class 1			Class 2			Class 3			Total
		Good	Fair	Poor	Good	Fair	Poor	Good	Fair	Poor	
District 1	Asphalt	601 (26.8%)	397 (17.7%)	1 (0.0%)	298 (13.3%)	434 (19.4%)	2 (0.1%)	70 (3.1%)	423 (18.9%)	14 (0.6%)	2,240 (100.0%)
	Concrete	6 (11.8%)	27 (54.3%)	16 (31.3%)	1 (1.7%)	0 (1.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	50 (100.0%)
District 2	Asphalt	714 (18.5%)	223 (5.8%)	0 (0.0%)	916 (23.7%)	828 (21.4%)	10 (0.3%)	586 (15.2%)	572 (14.8%)	15 (0.4%)	3,864 (100.0%)
	Concrete	58 (69.7%)	24 (28.8%)	0 (0.4%)	1 (0.6%)	0 (0.5%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	83 (100.0%)
District 3	Asphalt	1,105 (28.5%)	308 (8.0%)	3 (0.1%)	1,033 (26.6%)	725 (18.7%)	14 (0.4%)	264 (6.8%)	414 (10.7%)	10 (0.3%)	3,877 (100.0%)
	Concrete	151 (24.4%)	345 (55.8%)	7 (1.2%)	46 (7.4%)	60 (9.8%)	1 (0.1%)	6 (0.9%)	3 (0.4%)	0 (0.0%)	618 (100.0%)
District 4	Asphalt	1,987 (38.9%)	966 (18.9%)	4 (0.1%)	425 (8.3%)	1,344 (26.3%)	25 (0.5%)	29 (0.6%)	315 (6.2%)	9 (0.2%)	5,104 (100.0%)
	Concrete	315 (26.9%)	525 (44.7%)	64 (5.5%)	91 (7.8%)	162 (13.8%)	14 (1.2%)	0 (0.0%)	1 (0.1%)	1 (0.1%)	1,174 (100.0%)
District 5	Asphalt	836 (28.7%)	209 (7.2%)	1 (0.0%)	648 (22.2%)	575 (19.7%)	16 (0.6%)	173 (5.9%)	445 (15.3%)	14 (0.5%)	2,916 (100.0%)
	Concrete	133 (47.0%)	85 (30.1%)	11 (3.8%)	39 (13.9%)	14 (4.9%)	1 (0.3%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	283 (100.0%)
District 6	Asphalt	1,131 (27.8%)	255 (6.3%)	4 (0.1%)	593 (14.6%)	661 (16.3%)	24 (0.6%)	771 (19.0%)	615 (15.1%)	13 (0.3%)	4,066 (100.0%)
	Concrete	455 (40.0%)	246 (21.7%)	34 (2.9%)	156 (13.7%)	218 (19.2%)	4 (0.3%)	6 (0.5%)	19 (1.7%)	0 (0.0%)	1,138 (100.0%)
District 7	Asphalt	439 (20.2%)	423 (19.5%)	3 (0.2%)	363 (16.8%)	772 (35.6%)	28 (1.3%)	14 (0.6%)	127 (5.9%)	0 (0.0%)	2,169 (100.0%)
	Concrete	1,697 (42.9%)	1,944 (49.1%)	132 (3.3%)	48 (1.2%)	123 (3.1%)	14 (0.3%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	3,958 (100.0%)
District 8	Asphalt	1,857 (41.3%)	617 (13.7%)	18 (0.4%)	581 (12.9%)	1,069 (23.8%)	41 (0.9%)	140 (3.1%)	164 (3.6%)	13 (0.3%)	4,500 (100.0%)
	Concrete	1,110 (45.8%)	1,206 (49.8%)	57 (2.3%)	20 (0.8%)	25 (1.0%)	0 (0.0%)	4 (0.2%)	1 (0.0%)	0 (0.0%)	2,423 (100.0%)
District 9	Asphalt	1,145 (46.7%)	294 (12.0%)	2 (0.1%)	419 (17.1%)	174 (7.1%)	0 (0.0%)	232 (9.5%)	186 (7.6%)	0 (0.0%)	2,452 (100.0%)
	Concrete	76 (66.5%)	34 (30.1%)	4 (3.4%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	114 (100.0%)
District 10	Asphalt	758 (24.9%)	153 (5.0%)	0 (0.0%)	886 (29.1%)	632 (20.8%)	21 (0.7%)	332 (10.9%)	255 (8.4%)	2 (0.1%)	3,039 (100.0%)
	Concrete	178 (44.1%)	164 (40.7%)	4 (1.1%)	12 (3.0%)	34 (8.4%)	9 (2.3%)	0 (0.1%)	1 (0.3%)	0 (0.0%)	403 (100.0%)
District 11	Asphalt	288 (15.3%)	341 (18.1%)	5 (0.3%)	276 (14.6%)	634 (33.7%)	6 (0.3%)	156 (8.3%)	176 (9.4%)	1 (0.0%)	1,882 (100.0%)
	Concrete	1,336 (57.5%)	758 (32.7%)	8 (0.4%)	56 (2.4%)	91 (3.9%)	2 (0.1%)	26 (1.1%)	45 (2.0%)	0 (0.0%)	2,322 (100.0%)
District 12	Asphalt	343 (32.1%)	223 (20.9%)	0 (0.0%)	211 (19.7%)	286 (26.8%)	5 (0.5%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	1,068 (100.0%)
	Concrete	411 (41.8%)	521 (52.9%)	10 (1.0%)	13 (1.3%)	29 (2.9%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	985 (100.0%)
Statewide Total	Asphalt	11,203 (30.1%)	4,410 (11.9%)	41 (0.1%)	6,648 (17.9%)	8,135 (21.9%)	193 (0.5%)	2,765 (7.4%)	3,692 (9.9%)	90 (0.2%)	37,177 (100.0%)
	Concrete	5,925 (43.7%)	5,879 (43.4%)	348 (2.6%)	483 (3.6%)	758 (5.6%)	45 (0.3%)	41 (0.3%)	70 (0.5%)	1 (0.0%)	13,550 (100.0%)

**TABLE 41. 2022 PAVEMENT CONDITION BY DISTRICT, PAVEMENT TYPE, AND ROADWAY CLASSIFICATION, BASED ON FEDERAL PAVEMENT PERFORMANCE MEASURES**

		Class 1			Class 2			Class 3			Total
		Good	Fair	Poor	Good	Fair	Poor	Good	Fair	Poor	
District 1	Asphalt	608 (27.2%)	377 (16.9%)	0 (0.0%)	301 (13.5%)	427 (19.1%)	2 (0.1%)	78 (3.5%)	428 (19.1%)	14 (0.6%)	2,236 (100.0%)
	Concrete	6 (11.4%)	28 (57.2%)	14 (29.0%)	1 (1.5%)	0 (1.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	50 (100.0%)
District 2	Asphalt	723 (18.6%)	220 (5.7%)	0 (0.0%)	809 (20.9%)	963 (24.8%)	6 (0.2%)	561 (14.5%)	579 (14.9%)	19 (0.5%)	3,881 (100.0%)
	Concrete	56 (70.0%)	23 (28.5%)	0 (0.4%)	0 (0.0%)	1 (1.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	80 (100.0%)
District 3	Asphalt	1,059 (27.8%)	292 (7.7%)	2 (0.0%)	1,034 (27.2%)	718 (18.9%)	13 (0.3%)	270 (7.1%)	402 (10.6%)	14 (0.4%)	3,805 (100.0%)
	Concrete	157 (26.0%)	325 (53.9%)	6 (1.0%)	47 (7.8%)	59 (9.8%)	1 (0.1%)	4 (0.7%)	5 (0.8%)	0 (0.0%)	603 (100.0%)
District 4	Asphalt	1,958 (39.1%)	906 (18.1%)	4 (0.1%)	385 (7.7%)	1,358 (27.1%)	37 (0.7%)	30 (0.6%)	322 (6.4%)	10 (0.2%)	5,010 (100.0%)
	Concrete	327 (28.3%)	511 (44.2%)	57 (5.0%)	91 (7.9%)	154 (13.3%)	14 (1.2%)	0 (0.0%)	1 (0.1%)	1 (0.1%)	1,155 (100.0%)
District 5	Asphalt	835 (28.7%)	194 (6.7%)	1 (0.0%)	646 (22.2%)	589 (20.3%)	13 (0.5%)	149 (5.1%)	462 (15.9%)	15 (0.5%)	2,905 (100.0%)
	Concrete	108 (41.4%)	94 (36.0%)	9 (3.5%)	36 (13.7%)	13 (5.0%)	1 (0.4%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	261 (100.0%)
District 6	Asphalt	1,147 (27.9%)	256 (6.2%)	4 (0.1%)	609 (14.8%)	683 (16.6%)	21 (0.5%)	824 (20.0%)	562 (13.7%)	8 (0.2%)	4,113 (100.0%)
	Concrete	407 (37.2%)	269 (24.6%)	35 (3.2%)	163 (14.9%)	212 (19.4%)	2 (0.2%)	2 (0.2%)	5 (0.4%)	0 (0.0%)	1,095 (100.0%)
District 7	Asphalt	448 (19.3%)	401 (17.3%)	3 (0.1%)	393 (16.9%)	822 (35.4%)	25 (1.1%)	28 (1.2%)	201 (8.7%)	0 (0.0%)	2,321 (100.0%)
	Concrete	1,625 (42.1%)	1,931 (50.0%)	123 (3.2%)	45 (1.2%)	129 (3.3%)	9 (0.2%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	3,863 (100.0%)
District 8	Asphalt	1,929 (42.3%)	609 (13.4%)	13 (0.3%)	653 (14.3%)	999 (21.9%)	35 (0.8%)	144 (3.2%)	164 (3.6%)	9 (0.2%)	4,555 (100.0%)
	Concrete	968 (42.1%)	1,222 (53.1%)	65 (2.8%)	13 (0.6%)	30 (1.3%)	0 (0.0%)	3 (0.1%)	1 (0.1%)	0 (0.0%)	2,303 (100.0%)
District 9	Asphalt	1,132 (47.0%)	296 (12.3%)	1 (0.0%)	392 (16.3%)	196 (8.1%)	2 (0.1%)	220 (9.1%)	170 (7.1%)	0 (0.0%)	2,408 (100.0%)
	Concrete	72 (62.5%)	39 (34.1%)	4 (3.3%)	0 (0.0%)	0 (0.1%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	114 (100.0%)
District 10	Asphalt	779 (25.2%)	138 (4.5%)	0 (0.0%)	869 (28.1%)	693 (22.4%)	22 (0.7%)	311 (10.0%)	280 (9.1%)	1 (0.0%)	3,093 (100.0%)
	Concrete	180 (43.8%)	170 (41.3%)	4 (1.0%)	13 (3.1%)	35 (8.5%)	8 (2.0%)	0 (0.1%)	1 (0.2%)	0 (0.0%)	411 (100.0%)
District 11	Asphalt	320 (17.1%)	305 (16.3%)	5 (0.2%)	279 (14.9%)	629 (33.5%)	6 (0.3%)	129 (6.9%)	198 (10.5%)	4 (0.2%)	1,875 (100.0%)
	Concrete	1,310 (54.8%)	850 (35.6%)	9 (0.4%)	53 (2.2%)	93 (3.9%)	2 (0.1%)	22 (0.9%)	49 (2.1%)	0 (0.0%)	2,389 (100.0%)
District 12	Asphalt	370 (33.9%)	222 (20.4%)	0 (0.0%)	190 (17.5%)	304 (27.9%)	4 (0.3%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	1,090 (100.0%)
	Concrete	382 (38.5%)	558 (56.3%)	10 (1.0%)	14 (1.4%)	28 (2.9%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	992 (100.0%)
Statewide Total	Asphalt	11,309 (30.3%)	4,217 (11.3%)	32 (0.1%)	6,559 (17.6%)	8,381 (22.5%)	186 (0.5%)	2,744 (7.4%)	3,768 (10.1%)	94 (0.3%)	37,292 (100.0%)
	Concrete	5,598 (42.0%)	6,020 (45.2%)	336 (2.5%)	475 (3.6%)	755 (5.7%)	37 (0.3%)	31 (0.2%)	62 (0.5%)	1 (0.0%)	13,315 (100.0%)

**TABLE 42. 2023 PAVEMENT CONDITION BY DISTRICT, PAVEMENT TYPE, AND ROADWAY CLASSIFICATION, BASED ON CALTRANS PAVEMENT RATING SYSTEM**

		Class 1			Class 2			Class 3			Total
		Green	Yellow	Red	Green	Yellow	Red	Green	Yellow	Red	
District 1	Asphalt	727 (32.5%)	218 (9.7%)	54 (2.4%)	411 (18.4%)	195 (8.7%)	128 (5.7%)	217 (9.7%)	81 (3.6%)	209 (9.3%)	2,240 (100.0%)
	Concrete	10 (20.6%)	6 (11.6%)	32 (65.1%)	1 (2.2%)	0 (0.0%)	0 (0.4%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	50 (100.0%)
District 2	Asphalt	559 (14.5%)	354 (9.2%)	25 (0.6%)	600 (15.5%)	987 (25.5%)	169 (4.4%)	535 (13.8%)	459 (11.9%)	178 (4.6%)	3,864 (100.0%)
	Concrete	75 (90.3%)	3 (3.2%)	4 (5.4%)	1 (1.0%)	0 (0.0%)	0 (0.2%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	83 (100.0%)
District 3	Asphalt	989 (25.5%)	386 (10.0%)	41 (1.1%)	1,037 (26.7%)	557 (14.4%)	179 (4.6%)	338 (8.7%)	188 (4.8%)	161 (4.2%)	3,877 (100.0%)
	Concrete	398 (64.3%)	23 (3.8%)	82 (13.3%)	74 (11.9%)	12 (1.9%)	21 (3.4%)	8 (1.3%)	0 (0.0%)	0 (0.0%)	618 (100.0%)
District 4	Asphalt	2,479 (48.6%)	325 (6.4%)	152 (3.0%)	739 (14.5%)	419 (8.2%)	637 (12.5%)	99 (1.9%)	58 (1.1%)	196 (3.8%)	5,104 (100.0%)
	Concrete	600 (51.1%)	65 (5.5%)	240 (20.5%)	199 (17.0%)	4 (0.3%)	64 (5.5%)	0 (0.0%)	0 (0.0%)	1 (0.1%)	1,174 (100.0%)
District 5	Asphalt	702 (24.1%)	314 (10.8%)	30 (1.0%)	710 (24.4%)	314 (10.8%)	216 (7.4%)	251 (8.6%)	127 (4.4%)	252 (8.7%)	2,916 (100.0%)
	Concrete	175 (61.9%)	12 (4.4%)	41 (14.5%)	48 (16.9%)	2 (0.6%)	5 (1.7%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	283 (100.0%)
District 6	Asphalt	1,112 (27.3%)	240 (5.9%)	38 (0.9%)	581 (14.3%)	449 (11.0%)	248 (6.1%)	763 (18.8%)	425 (10.5%)	210 (5.2%)	4,066 (100.0%)
	Concrete	628 (55.2%)	19 (1.7%)	87 (7.7%)	317 (27.8%)	16 (1.4%)	45 (4.0%)	24 (2.1%)	0 (0.0%)	1 (0.1%)	1,138 (100.0%)
District 7	Asphalt	663 (30.6%)	133 (6.1%)	69 (3.2%)	457 (21.1%)	322 (14.8%)	384 (17.7%)	50 (2.3%)	19 (0.9%)	72 (3.3%)	2,169 (100.0%)
	Concrete	2,841 (71.8%)	156 (3.9%)	776 (19.6%)	108 (2.7%)	7 (0.2%)	70 (1.8%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	3,958 (100.0%)
District 8	Asphalt	1,419 (31.5%)	833 (18.5%)	240 (5.3%)	568 (12.6%)	609 (13.5%)	514 (11.4%)	138 (3.1%)	48 (1.1%)	131 (2.9%)	4,500 (100.0%)
	Concrete	1,977 (81.6%)	46 (1.9%)	350 (14.4%)	43 (1.8%)	0 (0.0%)	2 (0.1%)	4 (0.2%)	0 (0.0%)	0 (0.0%)	2,423 (100.0%)
District 9	Asphalt	862 (35.2%)	494 (20.2%)	84 (3.4%)	409 (16.7%)	160 (6.5%)	24 (1.0%)	294 (12.0%)	104 (4.2%)	20 (0.8%)	2,452 (100.0%)
	Concrete	97 (85.4%)	2 (1.8%)	15 (12.7%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	114 (100.0%)
District 10	Asphalt	745 (24.5%)	138 (4.5%)	28 (0.9%)	656 (21.6%)	687 (22.6%)	196 (6.5%)	253 (8.3%)	269 (8.8%)	67 (2.2%)	3,039 (100.0%)
	Concrete	280 (69.6%)	16 (4.0%)	50 (12.3%)	26 (6.5%)	3 (0.8%)	26 (6.5%)	0 (0.1%)	0 (0.0%)	1 (0.2%)	403 (100.0%)
District 11	Asphalt	328 (17.4%)	226 (12.0%)	80 (4.2%)	441 (23.4%)	295 (15.7%)	179 (9.5%)	177 (9.4%)	106 (5.7%)	49 (2.6%)	1,882 (100.0%)
	Concrete	1,913 (82.4%)	42 (1.8%)	147 (6.4%)	137 (5.9%)	1 (0.0%)	11 (0.5%)	70 (3.0%)	0 (0.0%)	1 (0.0%)	2,322 (100.0%)
District 12	Asphalt	447 (41.9%)	93 (8.7%)	26 (2.4%)	330 (30.9%)	82 (7.7%)	90 (8.4%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	1,068 (100.0%)
	Concrete	807 (82.0%)	25 (2.5%)	110 (11.2%)	35 (3.6%)	2 (0.2%)	5 (0.5%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	985 (100.0%)
Statewide Total	Asphalt	11,032 (29.7%)	3,755 (10.1%)	867 (2.3%)	6,939 (18.7%)	5,074 (13.6%)	2,963 (8.0%)	3,115 (8.4%)	1,885 (5.1%)	1,548 (4.2%)	37,177 (100.0%)
	Concrete	9,801 (72.3%)	416 (3.1%)	1,935 (14.3%)	989 (7.3%)	46 (0.3%)	251 (1.8%)	107 (0.8%)	0 (0.0%)	5 (0.0%)	13,550 (100.0%)

**TABLE 43. 2022 PAVEMENT CONDITION BY DISTRICT, PAVEMENT TYPE, AND ROADWAY CLASSIFICATION, BASED ON CALTRANS PAVEMENT RATING SYSTEM**

		Class 1			Class 2			Class 3			Total
		Green	Yellow	Red	Green	Yellow	Red	Green	Yellow	Red	
District 1	Asphalt	749 (33.5%)	194 (8.7%)	43 (1.9%)	434 (19.4%)	170 (7.6%)	126 (5.6%)	222 (9.9%)	88 (3.9%)	210 (9.4%)	2,236 (100.0%)
	Concrete	11 (22.6%)	6 (11.4%)	32 (63.6%)	1 (1.9%)	0 (0.0%)	0 (0.5%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	50 (100.0%)
District 2	Asphalt	603 (15.5%)	312 (8.0%)	28 (0.7%)	723 (18.6%)	910 (23.5%)	145 (3.7%)	544 (14.0%)	431 (11.1%)	184 (4.8%)	3,881 (100.0%)
	Concrete	72 (90.6%)	3 (3.4%)	4 (5.0%)	0 (0.1%)	0 (0.0%)	1 (0.9%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	80 (100.0%)
District 3	Asphalt	972 (25.5%)	341 (9.0%)	41 (1.1%)	1,118 (29.4%)	450 (11.8%)	197 (5.2%)	341 (9.0%)	166 (4.4%)	180 (4.7%)	3,805 (100.0%)
	Concrete	402 (66.7%)	23 (3.8%)	63 (10.4%)	75 (12.5%)	12 (2.0%)	20 (3.2%)	8 (1.4%)	0 (0.0%)	0 (0.0%)	603 (100.0%)
District 4	Asphalt	2,408 (48.1%)	315 (6.3%)	145 (2.9%)	708 (14.1%)	404 (8.1%)	669 (13.3%)	108 (2.2%)	55 (1.1%)	199 (4.0%)	5,010 (100.0%)
	Concrete	619 (53.6%)	73 (6.3%)	203 (17.6%)	192 (16.6%)	4 (0.3%)	63 (5.4%)	0 (0.0%)	0 (0.0%)	1 (0.1%)	1,155 (100.0%)
District 5	Asphalt	727 (25.0%)	280 (9.7%)	24 (0.8%)	720 (24.8%)	301 (10.4%)	227 (7.8%)	221 (7.6%)	143 (4.9%)	263 (9.0%)	2,905 (100.0%)
	Concrete	159 (61.0%)	12 (4.8%)	39 (15.0%)	43 (16.6%)	2 (0.6%)	5 (1.9%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	261 (100.0%)
District 6	Asphalt	1,150 (28.0%)	208 (5.1%)	49 (1.2%)	680 (16.5%)	382 (9.3%)	250 (6.1%)	827 (20.1%)	376 (9.1%)	191 (4.7%)	4,113 (100.0%)
	Concrete	597 (54.6%)	23 (2.1%)	91 (8.3%)	318 (29.0%)	18 (1.7%)	41 (3.7%)	5 (0.5%)	0 (0.0%)	1 (0.1%)	1,095 (100.0%)
District 7	Asphalt	665 (28.6%)	130 (5.6%)	57 (2.4%)	570 (24.6%)	292 (12.6%)	378 (16.3%)	123 (5.3%)	28 (1.2%)	79 (3.4%)	2,321 (100.0%)
	Concrete	2,804 (72.6%)	153 (4.0%)	722 (18.7%)	104 (2.7%)	6 (0.2%)	74 (1.9%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	3,863 (100.0%)
District 8	Asphalt	1,540 (33.8%)	788 (17.3%)	223 (4.9%)	621 (13.6%)	634 (13.9%)	432 (9.5%)	135 (3.0%)	69 (1.5%)	113 (2.5%)	4,555 (100.0%)
	Concrete	1,880 (81.6%)	60 (2.6%)	315 (13.7%)	41 (1.8%)	0 (0.0%)	2 (0.1%)	4 (0.2%)	0 (0.0%)	0 (0.0%)	2,303 (100.0%)
District 9	Asphalt	873 (36.3%)	482 (20.0%)	74 (3.1%)	385 (16.0%)	161 (6.7%)	44 (1.8%)	273 (11.4%)	95 (3.9%)	22 (0.9%)	2,408 (100.0%)
	Concrete	98 (85.3%)	2 (2.0%)	14 (12.6%)	0 (0.0%)	0 (0.0%)	0 (0.1%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	114 (100.0%)
District 10	Asphalt	774 (25.0%)	119 (3.8%)	25 (0.8%)	765 (24.7%)	582 (18.8%)	236 (7.6%)	272 (8.8%)	202 (6.5%)	118 (3.8%)	3,093 (100.0%)
	Concrete	286 (69.6%)	19 (4.5%)	49 (11.9%)	26 (6.3%)	3 (0.8%)	27 (6.5%)	0 (0.1%)	0 (0.0%)	1 (0.2%)	411 (100.0%)
District 11	Asphalt	358 (19.1%)	202 (10.8%)	69 (3.7%)	473 (25.2%)	276 (14.7%)	165 (8.8%)	166 (8.9%)	108 (5.7%)	57 (3.1%)	1,875 (100.0%)
	Concrete	1,947 (81.5%)	45 (1.9%)	177 (7.4%)	134 (5.6%)	0 (0.0%)	14 (0.6%)	70 (2.9%)	0 (0.0%)	1 (0.1%)	2,389 (100.0%)
District 12	Asphalt	482 (44.2%)	85 (7.8%)	26 (2.4%)	312 (28.6%)	89 (8.2%)	97 (8.9%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	1,090 (100.0%)
	Concrete	815 (82.1%)	33 (3.3%)	102 (10.3%)	35 (3.5%)	1 (0.1%)	6 (0.6%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	992 (100.0%)
Statewide Total	Asphalt	11,299 (30.3%)	3,456 (9.3%)	803 (2.2%)	7510 (20.1%)	4651 (12.5%)	2,966 (8.0%)	3,232 (8.7%)	1,760 (4.7%)	1,615 (4.3%)	37,292 (100.0%)
	Concrete	9,690 (72.8%)	452 (3.4%)	1,812 (13.6%)	970 (7.3%)	46 (0.3%)	252 (1.9%)	88 (0.7%)	0 (0.0%)	5 (0.0%)	13,315 (100.0%)