

Appendix E: Maintenance Program Activities and Facilities Operations

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¹ Dashes (-) in this appendix's tables indicate that data is not available or not applicable.

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Illegal Connections/Illicit Discharges

During the reporting period, 22 of 24 IC/IDs were resolved, and two are in the process of being resolved. Unresolved incidents are being researched, improvements are in progress, or further monitoring is required to indicate that the discharge has been eliminated. IC/IDs are discussed in Section 8 of the Annual Report. All IC/IDs are summarized in Table E-1.

Table E-1: Illegal Connections/Illicit Discharges Summary, Fiscal Year 2017-2018

District	# of Incidents	# In Progress	# Resolved from Prior Fiscal Years	# Resolved during Fiscal Year 2017-2018	# Referred to RWQCB or Local Agency
1	-	-	-	-	-
2	1	-	-	1	-
3	7	1	-	6	-
4	-	-	-	-	-
5	1	-	-	1	-
6	1	1	-	-	-
7	6	-	-	6	-
8	-	-	-	-	-
9	3	-	-	3	-
10	-	-	-	-	-
11	4	-	-	4	-
12	1	-	-	1	-
Total	24	2	0	22	0

RWQCB – Regional Water Quality Control Board

Figure E-1 shows the trends in illicit connections by District and Figure E-2 displays the statewide trends in illicit connections compared to the previous 14 years. In general, the trend is declining for IC/ID incidents.

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Figure E-1: District Trends in Illegal Connections/Illicit Discharges

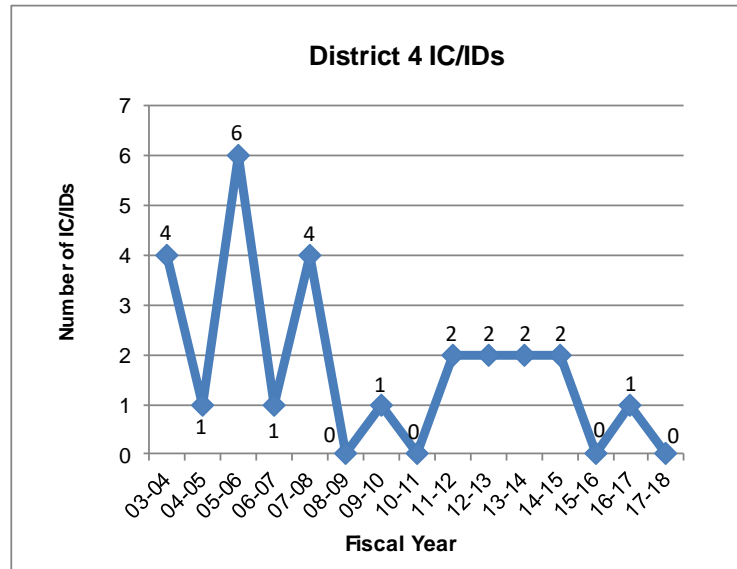
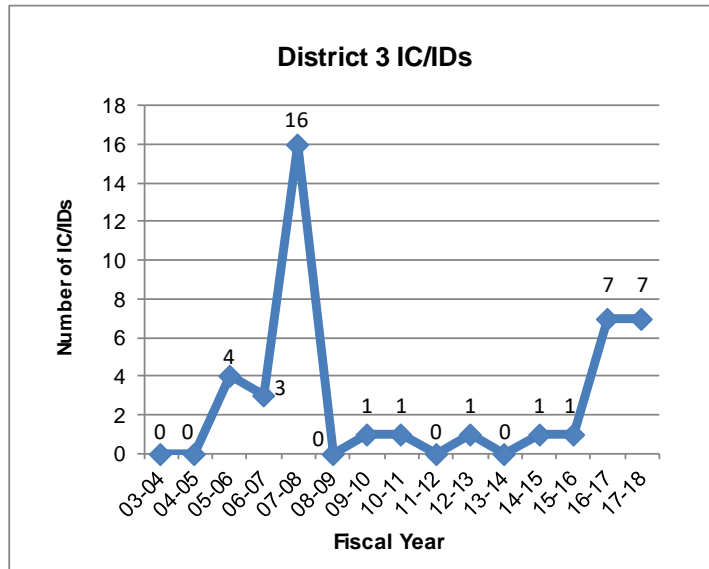
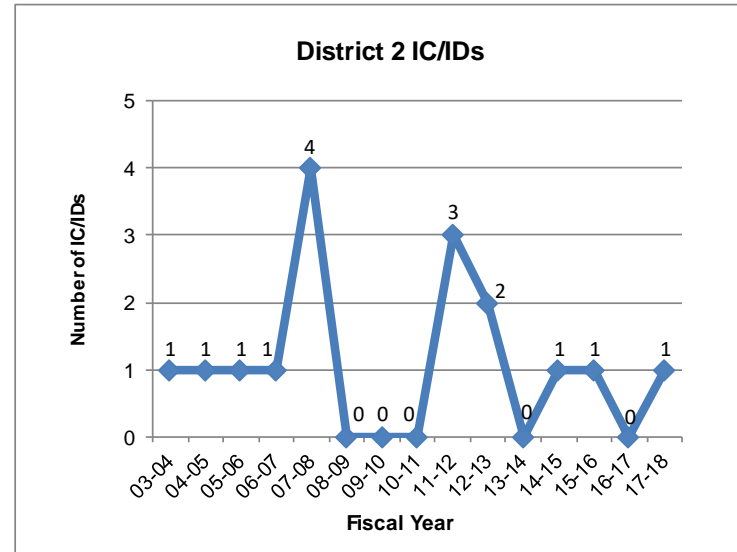
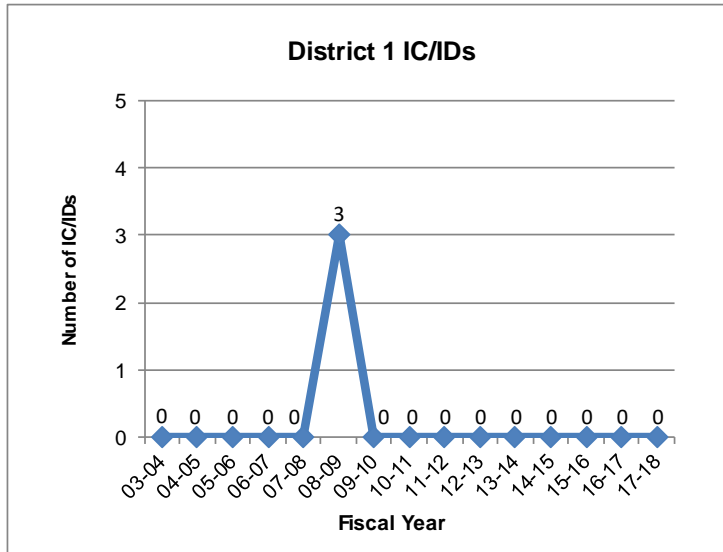


Figure E-1: District Trends in Illegal Connections/Illicit Discharges

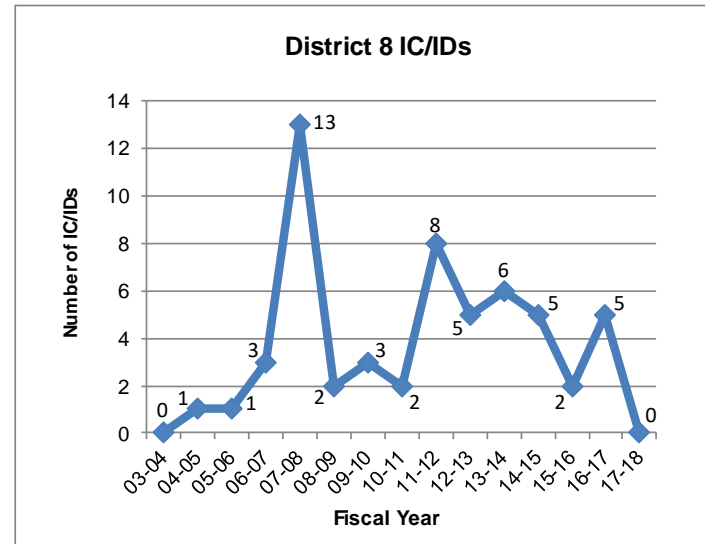
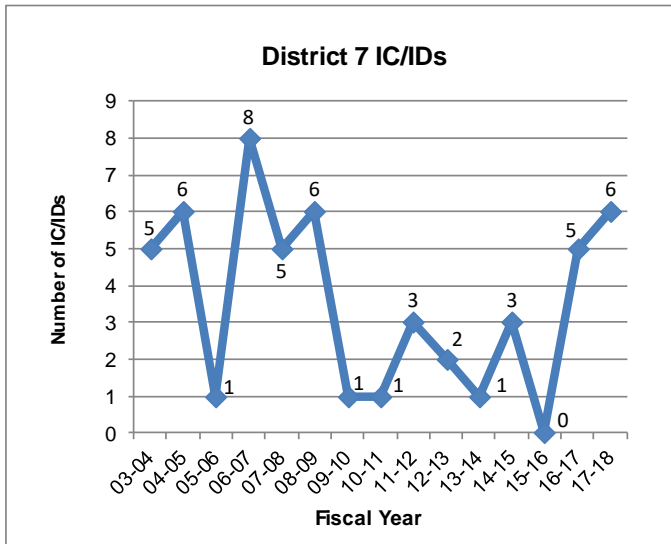
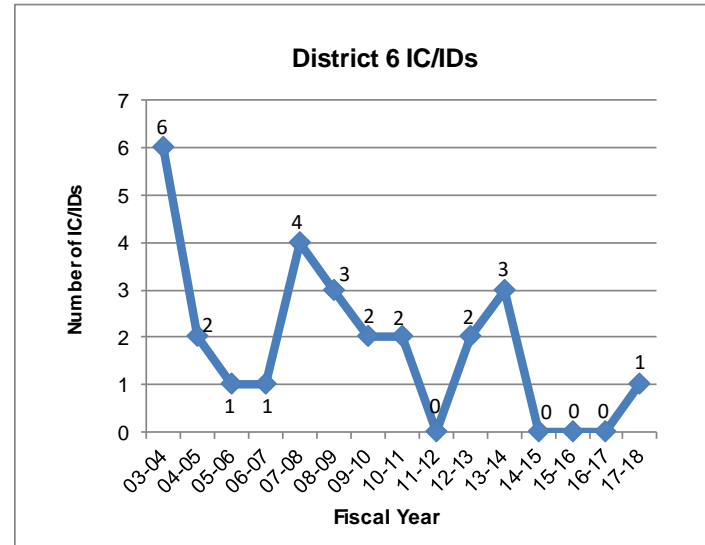
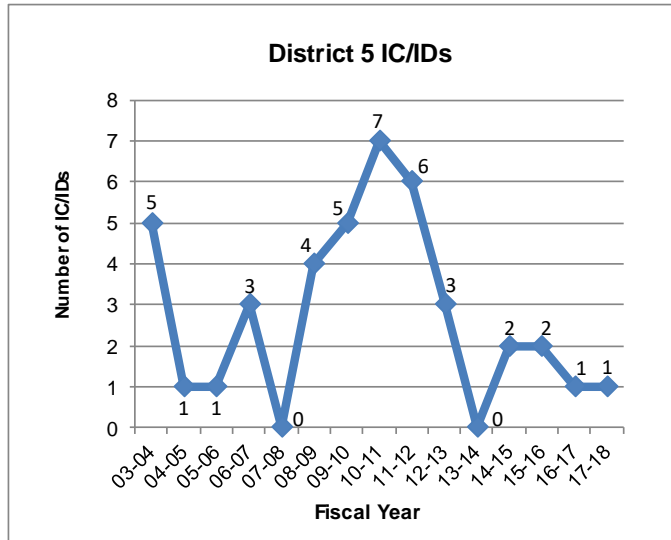
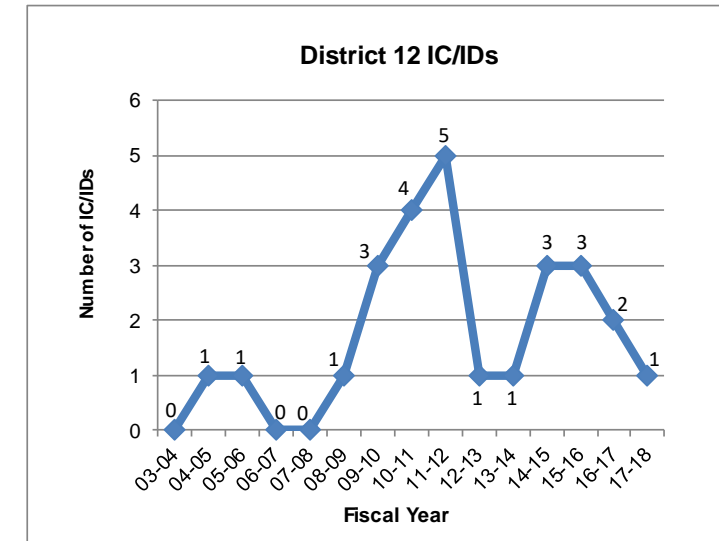
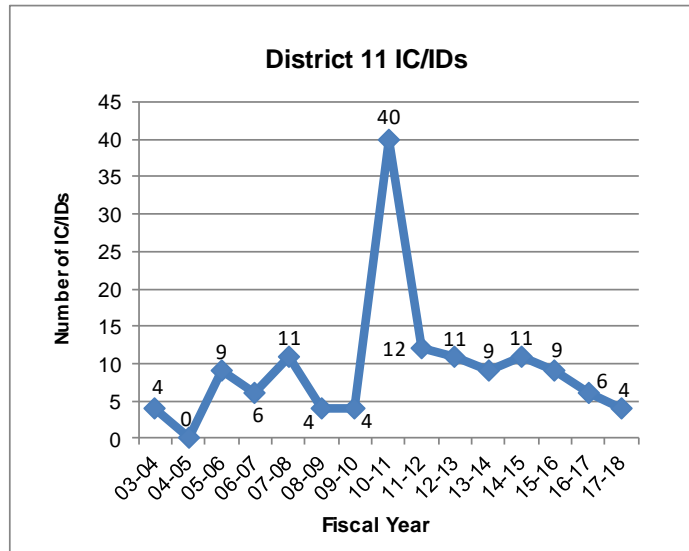
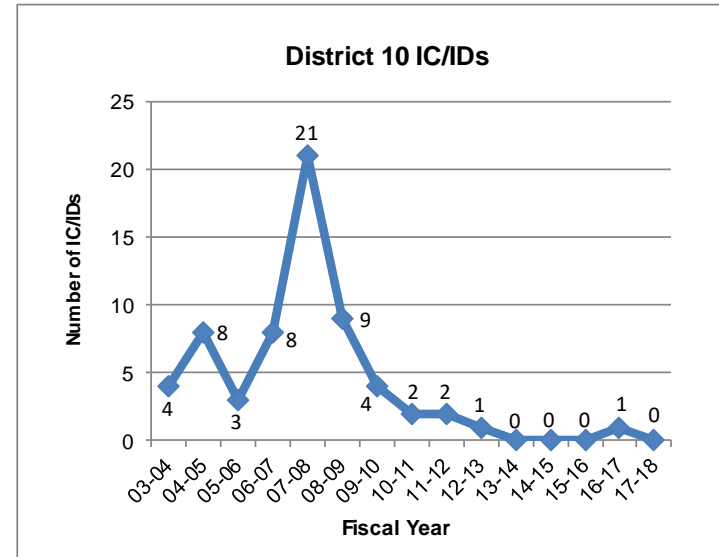
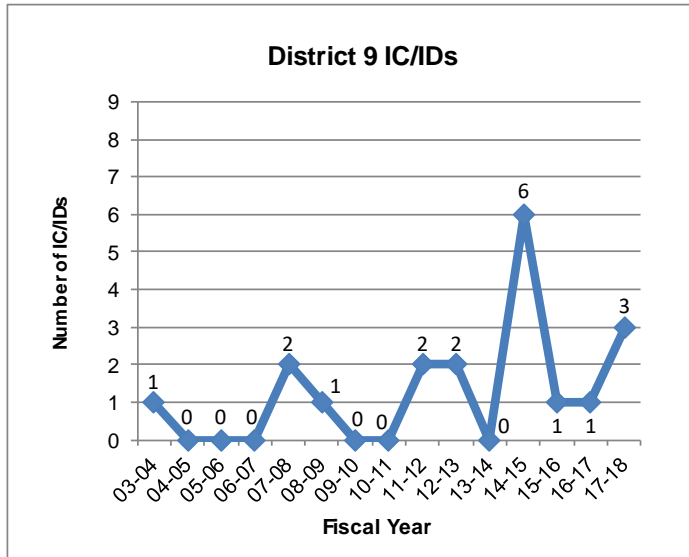


Figure E-1: District Trends in Illegal Connections/Illicit Discharges



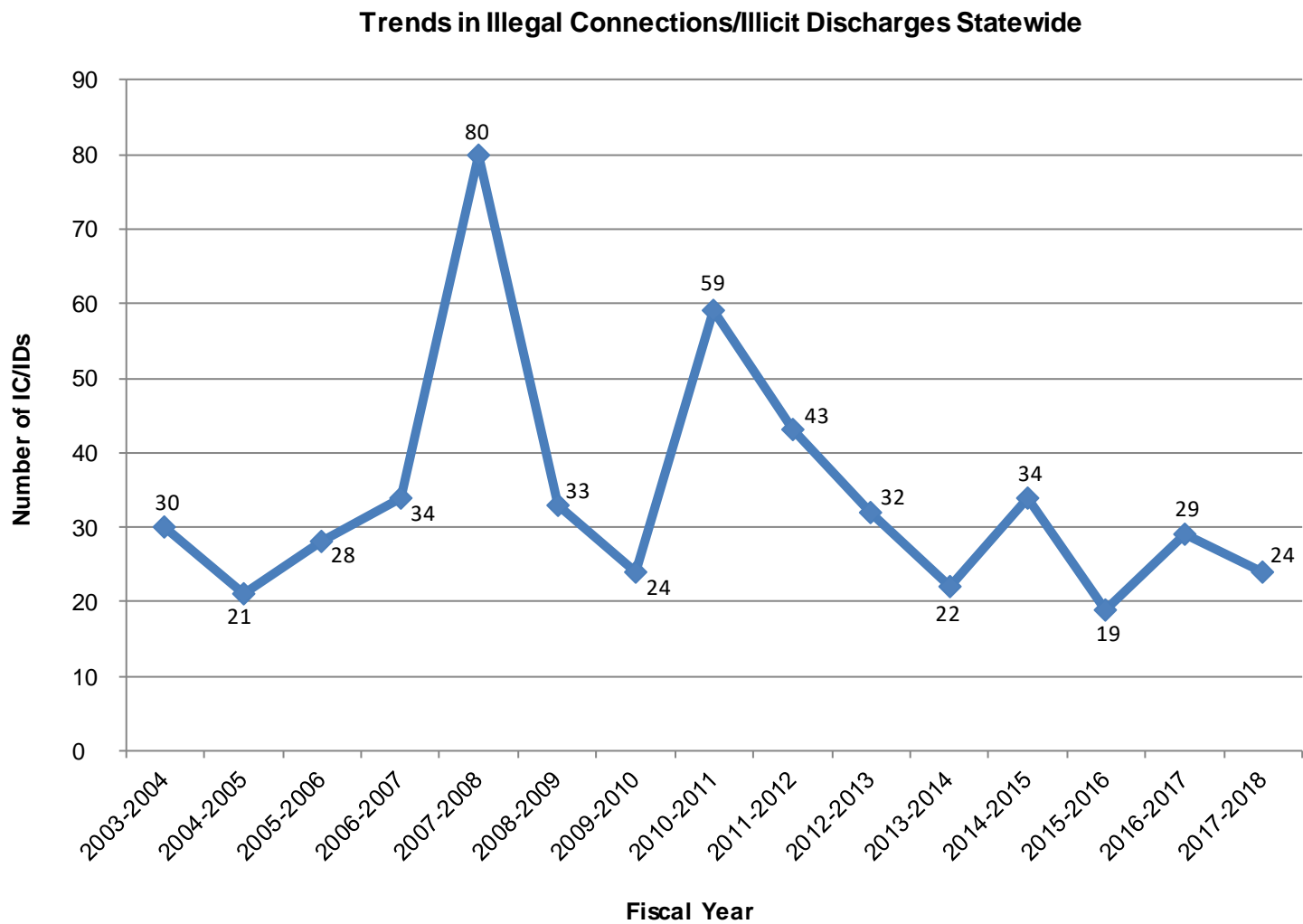


Figure E-2: Trends in Illegal Connections/Illicit Discharges Statewide

Table E-2 lists the details of the IC/IDs identified during the reporting period. IC/IDs are discussed in Section 8 of the Annual Report.

Table E-2: Illegal Connections/Illicit Discharges

District	Date First Known to District	County	Route	Responsible Party Name or Type	Description of Connection or Discharge	Resolution Status	Abatement Date
1	None	-	-	-	-	-	-
2	6/27/2018	Siskiyou	96	Adjacent Property Owner	Maintenance personnel found an 18-inch diameter culvert clogged with animal waste. Waste was also lining part of a paved roadside ditch. An adjacent landowner has several pigs housed in area located immediately adjacent to the road, sitting at a higher elevation.	District 2 Encroachment Permits personnel gave the responsible landowner until August 1, 2018 to unclog the culvert, remove all animal waste off the right-of-way, stabilize any soil areas disturbed while removing the waste, and requested a plan detailing how discharges onto the Right of Way will be prevented in the future.	8/1/2018
3	7/13/2017	PLA	80	CIG Logistics	Peat Moss and Diesel	Resolved – Cal OES Log #:17-4911	7/17/2017
3	9/7/2017	YUB	20	CFS Inc.	Tanker Truck Spill – Fuel	Resolved – Cal OES Log #:17-6521	9/7/2017
3	9/12/2017	ED	50	Security Paving Inc.	Water Line Break	Resolved	9/12/2017
3	1/9/2018	ED	50	Jade Garden	Storm Water	In Progress – Per Jaret Mont Plaisir: 1/7/18 morning ED 50 PM 76.0 eastbound side Owner APN 023 251 30, Peter Frederici Trust, phone 530 541-6171 Tenant appears to be Jade Garden restaurant. Volume less than 500cf. Pumping water from flooded parking area due to offsite	-
3	1/29/2018	PLA	80	Tank Truck	Cooking Oil	Resolved – Issue Resolved	1/29/2018
3	1/31/2018	PLA	20	Kilroy's Towing	Fuel	Resolved – Issue Resolved	2/9/2018
3	5/21/2018	SAC	50	BP Johnson	10 Gal Gas	Resolved – Cal OES 18-3294	5/21/2018
4	None	-	-	-	-	-	-
5	4/10/2018	SLO	101	TLC INC.	Saw cutting slurry and trash	Resolved	4/12/2018
6	8/27/2017	Fresno	180	Adjacent Property Owner	Excess irrigation water	In progress	NA

Table E-2: Illegal Connections/Illicit Discharges

District	Date First Known to District	County	Route	Responsible Party Name or Type	Description of Connection or Discharge	Resolution Status	Abatement Date
7	9/28/2017	LA	2	Alvarado Apts. 1030 N. Alvarado Blvd, Los Angeles	Constant water runoff onto State highway from property to sidewalk drain	Building manager found irrigation leaks on rooftop garden that was the source of the problem. Leaks were repaired. However, Caltrans will still have to monitor situation,	10/26/2017
7	11/29/2017	Los Angeles	605	ASAP Towing	Maintenance personnel discovered a 3" PVC pipe protruding through the towing company's cinder block wall and had apparent signs of discharge onto CT ROW.	CALTRANS HAZMAT removed all spilled material. LA County Health DPT notified. Property owner and tenants were mailed a notice of IC/ID via certified mail advising of IC/ID. LA County Public Works watersheds division LAWQCB and Dr. Horner were also CC'd on the notice letter to RP. RP cut back PVC pipe behind ROW lane and capped IC/ID.	12/29/2017
7	5/23/2018	Los Angeles	60	Jia X. Lu or Xiao L.Lue	Maintenance personnel discovered a non-authorized irrigation system encroaching onto CT ROW. Water causing dirt to wash into MS4, ponding of water and as a result mosquito larva was an issue.	RP was mailed out a notice of encroachment/Notice of IC/ID. LA County Public Works watersheds division LAWQCB and Dr. Horner were also CC'd on the notice letter to RP. RP removed and capped non-authorized IC/ID.	6/7/2018
7	5/23/2018	Los Angeles	60	Gerald M Gonzales	Maintenance personnel discovered a non-authorized irrigation system encroaching onto CT ROW. Water causing dirt to wash into MS4, ponding of water and as a result mosquito larva was an issue.	RP was mailed out a notice of encroachment/Notice of IC/ID. LA County Public Works watersheds division LAWQCB and Dr. Horner were also CC'd on the notice letter to RP. RP removed and capped non-authorized IC/ID.	6/7/2018
7	5/23/2018	Los Angeles	60	Jesus Urista	Maintenance personnel discovered a non-authorized irrigation system encroaching onto CT ROW. Water causing dirt to wash into MS4, ponding of water and as a result mosquito larva was an issue.	RP was mailed out a notice of encroachment/Notice of IC/ID. LA County Public Works watersheds division LAWQCB and Dr. Horner were also CC'd on the notice letter to RP. RP removed and capped non-authorized IC/ID.	6/7/2018

Table E-2: Illegal Connections/Illicit Discharges

District	Date First Known to District	County	Route	Responsible Party Name or Type	Description of Connection or Discharge	Resolution Status	Abatement Date
7	5/23/2018	Los Angeles	60	Charles Vandeusen	Maintenance personnel discovered illegal dumping of tree cuttings into the adjacent MS4 drainage system within CT ROW. System encroaching onto CT ROW. Debris was causing water to back up and as a result, ponding of water and as a result mosquito larva where an issue.	RP was mailed out a notice of encroachment/Notice of Illegal dumping. LA County Public Works watersheds division LAWQCB and Dr. Horner where also CC'd on the notice letter to RP. RP removed all debris that was thrown onto CT ROW from the adjacent private property.	6/6/2018
8	None	-	-	-	-	-	-
9	10/12/2017	Kern	14	Unknown	Liquid emulsion	Patriot Environmental cleaned up spill and hauled contaminated material away for disposal. Back filled with shoulder material	10/12/2017
9	6/14/2018	Inyo	395	Shell Gas Station located at 1290 N. Main St., Bishop, CA 93514	John Andreas, Bishop maintenance Supervisor, observed someone at the stated location washing fueling islands and water running down the gutters to a culvert on Hwy. 6	Talked to station owner and told him that it was no longer acceptable to follow this practice. The location of the culvert is in an area that had a bulk fueling station location years ago that had contaminated the area, so there is no way to know how much was spilled. Will keep monitoring the location for further violations.	6/14/2018
9	6/28/2018	Inyo	178	Unknown	49 semi-truck tires dumped on the shoulder	Caltrans removed tires and hauled them to the Shoshone MS for proper disposal with contractor	6/28/2018
10	None	-	-	-	-	-	-
11	4/15/2018	San Diego	94	Adjacent Property Owner	Residents constructed a makeshift dwelling with toilet. Toilet Discharged onto State ROW	San Diego City Environmental Health was notified and resolved the issue with home owner	4/30/2018
11	3/5/2018	San Diego	94	Apartment complex	Chronic freshwater leak from apartment building	Owner was notified to repair main line water break	5/5/2018
11	6/1/2018	San Diego	5	residence	Carlsbad Area Supervisor reported water flowing from illegal connection onto State ROW	Area Supervisor completed inspection determined non-hazardous. Consulted homeowner connection eliminated	6/18/2018

Table E-2: Illegal Connections/Illicit Discharges

District	Date First Known to District	County	Route	Responsible Party Name or Type	Description of Connection or Discharge	Resolution Status	Abatement Date
11	3/4/2018	Imperial	86	unknown	non-hazardous sludge deposited on shoulder near Salton City	waste characterized non-hazardous disposed of properly by Caltrans forces	3/15/2018
12	9/20/2017	ORA	22	Bodycote	Soapy Water from cleaning Chiller unit	Resolved – notified city of Westminster who intends to site facility because they were issued a notice of violation two months ago for same issue	9/20/2017

Vegetation Control

Herbicide, Pesticide, and Fertilizer Applications

The Division of Maintenance is required by the *National Pollutant Discharge Elimination System (NPDES) Statewide Storm Water Permit Waste Discharge Requirements for State of California Department of Transportation* (Order No. 2012-0011-DWQ, NPDES No. CAS000003) (Caltrans Conformed NPDES Permit) to summarize its chemical use report forms to demonstrate the quantity of chemicals used during the previous reporting period by type of herbicide, by District and by month. Caltrans, as a public agency, is required to include in its reporting adjuvants and growth regulators if used. Caltrans' Chemical Use Data is included as Appendix F to this report.

All herbicide use recommendations are prepared by State of California licensed Pest Control Advisors in each District. To avoid the development of resistant strains, chemical products with slightly different formulations are allocated to Districts after reviewing their use history. This results in minor but noticeable fluctuations in active ingredient totals.

Table E-3 is a statewide summary of the amount of active ingredient applied by Caltrans and indicates that 239,502 pounds of active ingredient were applied.

Table E-3: Chemical Usage Summary

District	Fiscal Year 2016-2017		Fiscal Year 2017-2018	
	Total Pounds Applied (Active Ingredient)	Acres Treated with Chemicals	Total Pounds Applied (Active Ingredient)	Acres Treated with Chemicals
1	733	3,418	803	2,449
2	7,136	4,768	7,388	2,888
3	26,581	13,002	26,450	10,914
4	19,779	11,636	25,171	7,857
5	8,134	8,462	7,522	3,619
6	32,986	9,757	27,060	4,932
7	41,929	5,084	59,218	4,081
8	15,318	7,341	13,136	3,418
9	840	836	1,635	2,399
10	16,791	9,741	31,334	7,194
11	19,253	3,865	24,109	5,866
12	17,177	3,689	15,676	1,655
Total	206,657	81,599	239,502	57,272

Figure E-3 shows the annual statewide trends of chemical use over the last 15 fiscal years. Figure E-4 shows the trends of chemical use per District compared to the previous 15 fiscal years. Chemical use is discussed in Section 8 of the Annual Report.

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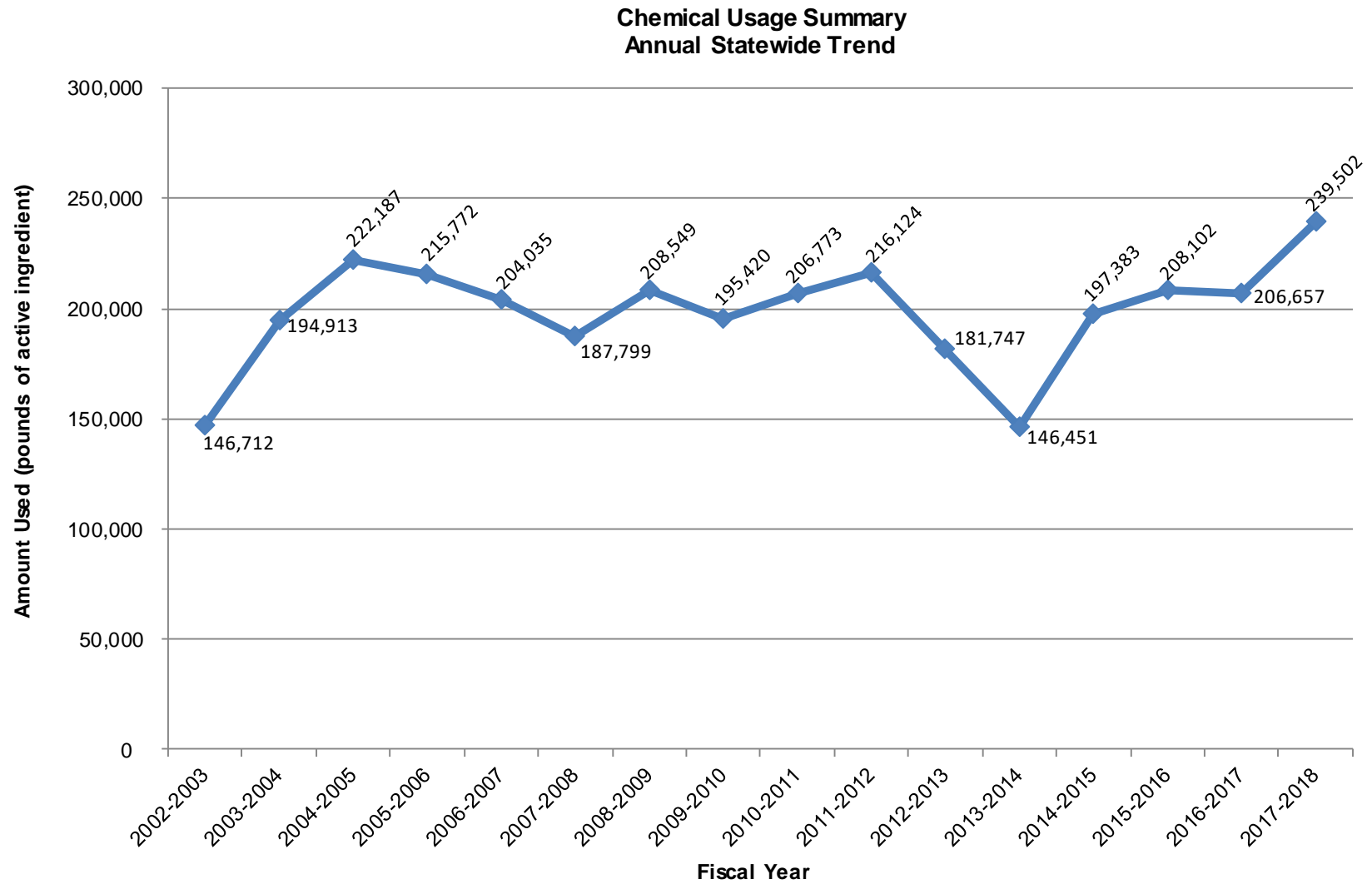


Figure E-3: Statewide Chemical Usage Summary

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Figure E-4: District Chemical Usage Summary

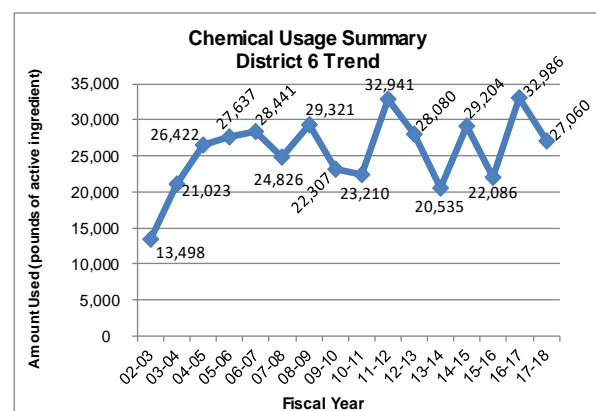
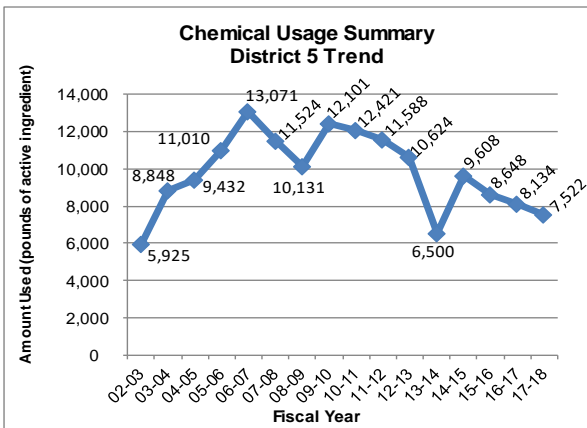
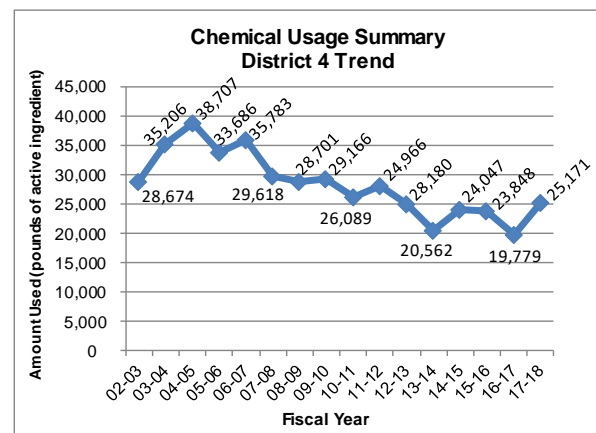
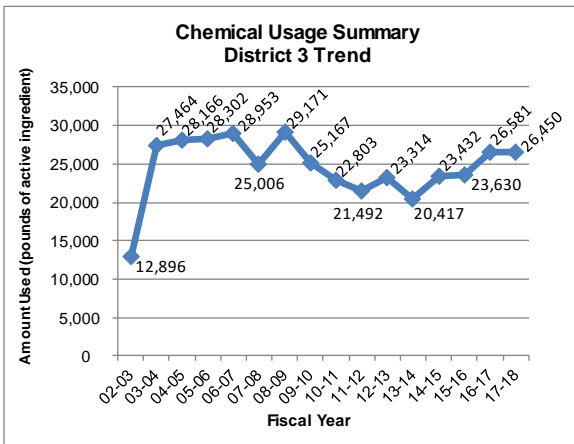
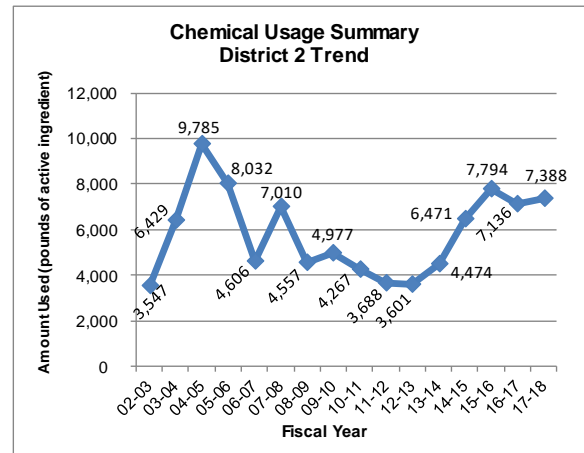
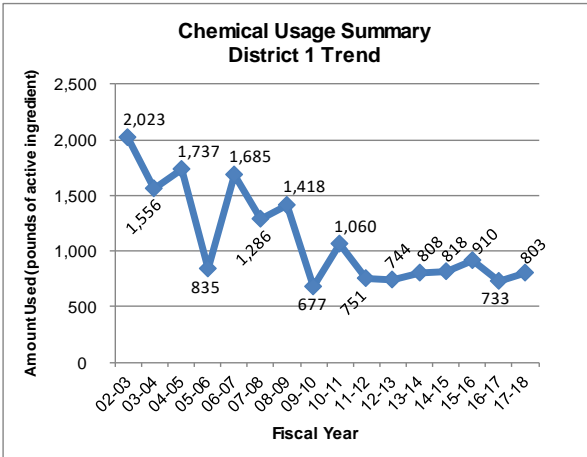
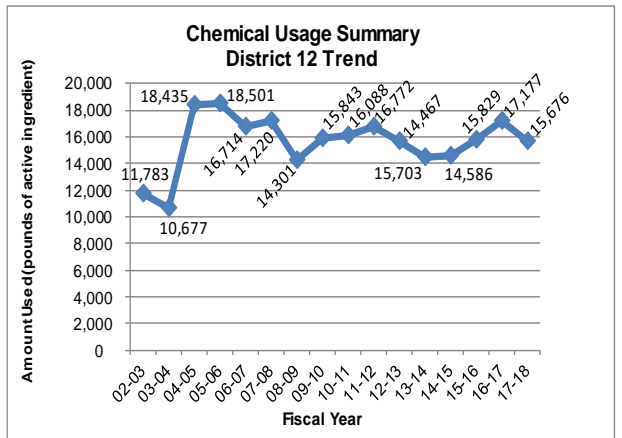
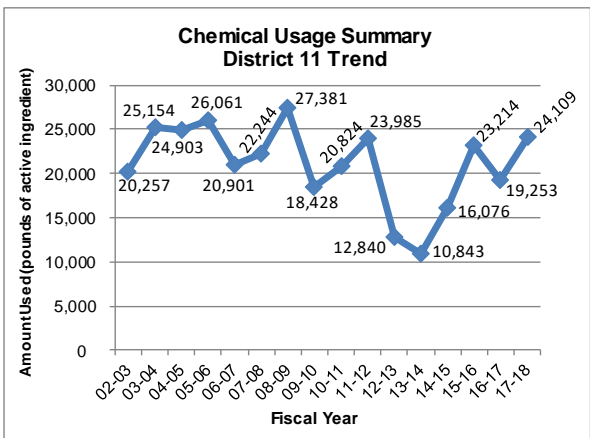
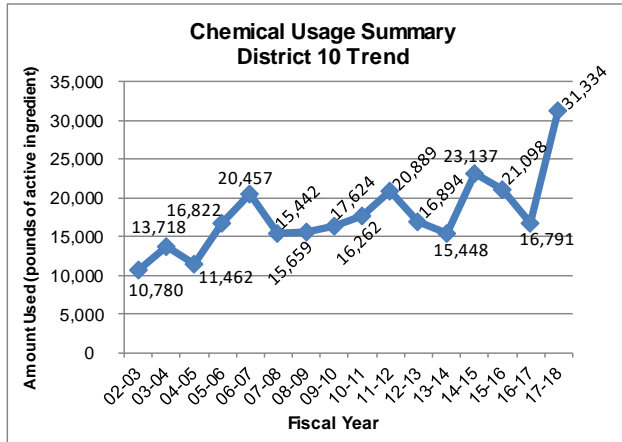
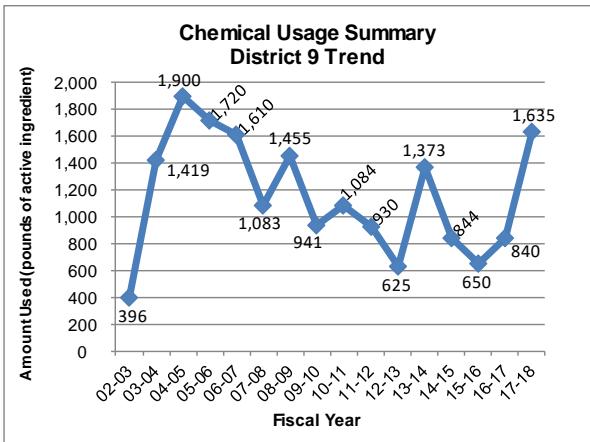
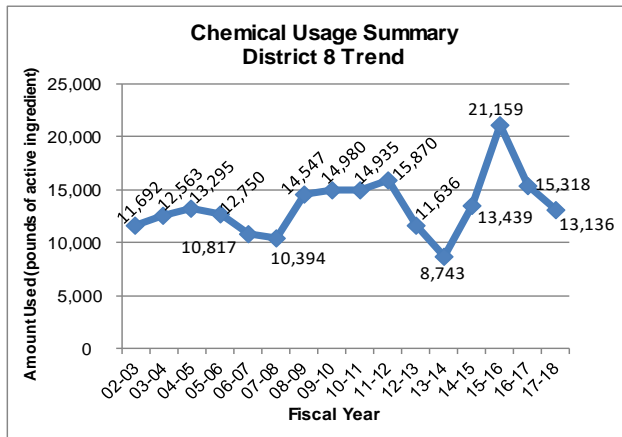
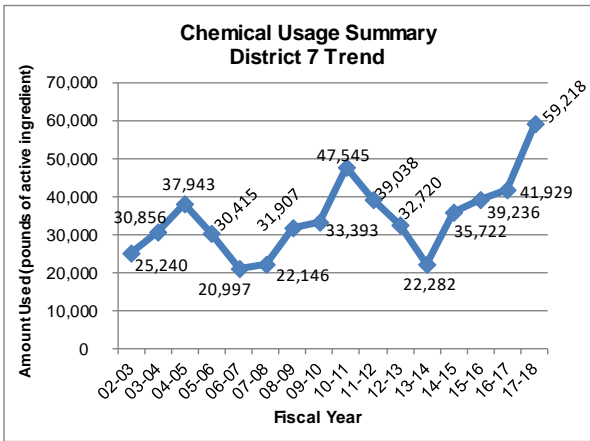


Figure E-4: District Chemical Usage Summary



For detailed route segment location information, and the products and quantities applied statewide, refer to the Chemical Use Data (Appendix F) on the CD.

On a statewide basis, Caltrans increased its chemical use from 206,657 pounds of active ingredient in 2017 to 239,502 pounds during the current fiscal year. The following explains why seven Districts had increases from the previous reporting period:

- District 1 increased its chemical use during fiscal year 2017-2018 as compared to the previous fiscal year due to increased noxious weeds and variations in the vegetation control program due to construction projects, weather events, equipment failures, and changes in policies.
- District 2 increased its chemical use during fiscal year 2017-2018 as compared to the previous fiscal year due to variations in the vegetation control program.
- District 3 decreased its chemical use in fiscal year 2017-2018 as compared to the previous fiscal year.
- District 4 increased its chemical use during fiscal year 2017-2018 as compared to the previous fiscal year.
- District 5 decreased its chemical use in fiscal year 2017-2018 as compared to the previous fiscal year.
- District 6 decreased its chemical use in fiscal year 2017-2018 as compared to the previous fiscal year.
- District 7 increased its chemical use during fiscal year 2017-2018 as compared to the previous fiscal year due to unseasonal rains followed by warmer days that stimulated sporadic weed germination outside of our normal application schedule.
- District 8 decreased its chemical use in fiscal year 2017-2018 as compared to the previous fiscal year.
- District 9 increased its chemical use during fiscal year 2017-2018 as compared to the previous fiscal year.
- District 10 increased its chemical use during fiscal year 2017-2018 as compared to the previous fiscal year.
- District 11 increased its chemical use during fiscal year 2017-2018 as compared to the previous fiscal year due to District management prioritized post emergent grass and crack weed control.
- District 12 decreased its chemical use in fiscal year 2017-2018 as compared to the previous fiscal year.

There were no Pesticide Violations issued statewide during the fiscal year. For more information on pesticide application violations, see the California Department of Pesticide Regulation's website, <http://www.cdpr.ca.gov/docs/enforce/admnacts/cvlpnlty.htm>.

Maintenance Self-Audit Compliance Monitoring

Appendix G lists the facilities that were inspected during the fiscal year, as well as the inspections that occurred in the past 13 fiscal years.

The Maintenance Activity Numeric Compliance rating system consists of a numeric component, 1 through 5, as shown below in Figure E-5.

Rating	Description
Rating 1	<p>No release observed. Appropriate BMPs implemented and effective.</p> <p>No deficiencies noted. <u>All of the following conditions</u> must be met for a Rating 1:</p> <ul style="list-style-type: none"> • No release to surface water or outside the Caltrans' right-of-way. • Appropriate BMPs are properly implemented for this activity and are 100% effective (i.e., installed and maintained so as to be functional).
Rating 2	<p>No release observed. Appropriate BMPs implemented but are less than 100% effective.</p> <p><u>All of the following conditions</u> must be met for a Rating 2:</p> <ul style="list-style-type: none"> • No release to surface water or outside the Caltrans' right-of-way. • Appropriate BMPs are implemented for this facility; however, they are less than 100% effective. <p>The BMPs that require repair or maintenance are documented and discussed with the facility manager or representative.</p>
Rating 3	<p>No release observed. Appropriate BMPs not implemented.</p> <p><u>All of the following conditions</u> must be met for a Rating 3:</p> <ul style="list-style-type: none"> • No release to surface water or outside the Caltrans' right-of-way. • Appropriate BMPs have not been implemented for this facility. <p>A corrective action plan is required.</p>
Rating 4	<p>Release (observed or evidence of a recent release) from the facility to outside the Caltrans' right-of-way.</p> <ul style="list-style-type: none"> • Release outside the Caltrans' right-of-way. <p>This condition requires immediate corrective action and initiation of the Maintenance ERP Level 2. A corrective action plan is required.</p>
Rating 5	<p>Discharge (observed or evidence of a recent discharge) from the facility to surface water.</p> <ul style="list-style-type: none"> • Discharge to surface water. <p>This condition requires immediate corrective action and initiation of the Maintenance ERP Level 2. Report discharge on an Incident Report form. A corrective action plan is required.</p>

Figure E-5: Maintenance Activity Compliance Numeric Rating Summary

Maintenance activities that receive a 1 or 2 Rating (i.e., BMPs are implemented and are effective or less than 100% effective) are considered to be compliant with the stormwater requirements. The BMPs that require repair or maintenance are documented and discussed with the Maintenance Supervisor or representative.

In contrast, a 3, 4, or 5 Rating (i.e., BMPs not implemented, release to outside the Caltrans' ROW, or discharge to surface water) indicates the need for immediate corrective action and may initiate a Level 2 Maintenance Enforcement Response Program. If an activity received a 3, 4, or 5 Rating, the corrective action(s) is implemented immediately prior to the auditor leaving the activity location and a revisit is not conducted. If follow-up training is required, training is conducted and documented on a BMP Tailgate Meeting Form upon return to the maintenance facility.

Facilities are evaluated based on the appropriateness and effectiveness of implemented Maintenance BMPs, the potential for pollutant discharge and administrative compliance. An alphanumeric rating will be used to score the overall facility effectiveness. The appropriateness and effectiveness of the maintenance BMPs is evaluated using a numerical rating. Administrative compliance is evaluated using an alphabetic rating, as shown below in Figure E-6.

Rating	Description
Rating A	<p>Overall administrative BMP compliance and documentation is current and available.</p> <p><u>All of the following conditions</u> must be met for a Rating A:</p> <ul style="list-style-type: none"> • Hard copy of the Permit. • FPPP – Certification Page information is current. • FPPP Section 3.0 (facility BMPs, Non-Hazardous Materials Storage, Hazardous Materials Storage) information is current. • >90% (70-78) BMP Tailgate Meeting logs are current and documentation is available for the past 3 years. • >90% (32-36) monthly facility storm water inspection reports (i.e., FPPP Monthly Stormwater Compliance Inspection form) have been completed and are available. At a minimum, the last 3 years of inspection checklists from the initial date the FPPP was certified should be retained.
Rating B	<p>Overall administrative BMP compliance and documentation moderately implemented.</p> <p><u>All of the following conditions</u> must be met for a Rating B:</p> <ul style="list-style-type: none"> • FPPP – Certification Page is not current or Section 3.0 (facility BMPs, Non-Hazardous Materials Storage, Hazardous Materials Storage) information is not current. • 50 - 90% (39-69) BMP Tailgate Meeting logs are current and documentation is available for the past 3 years. • 50 - 90% (18-31) monthly facility storm water inspection reports (i.e., FPPP Monthly Stormwater Compliance Inspection form) have been completed and are available. At a minimum, the last 3 years of inspection checklists from the initial date the FPPP was certified should be retained.
Rating C	<p>Overall administrative documentation inadequate.</p> <p>To meet the Rating C, <u>one of the following conditions</u> must be met:</p> <ul style="list-style-type: none"> • FPPP – Certification page missing. • Section 3.0 (facility BMPs, Non-Hazardous Materials Storage, Hazardous Materials Storage) information missing. • <50% BMP (0-38) BMP Tailgate Meeting logs are current and documentation is available for the past 3 years. • <50% (0-17) monthly facility storm water inspection reports (i.e., FPPP Monthly Stormwater Compliance Inspection form) have been completed and are available. At a minimum, the last 3 years of inspection checklists from the initial date the FPPP was certified should be retained.

Figure E-6: Maintenance Activity Compliance Alphabetic Rating Summary

Table E-4 shows the alphabetic rating summary of facilities reviewed by District.

Table E-4: Maintenance Facility Alphabetic Rating Summary by District

District	No. of Facilities Reviewed	Overall administrative BMP compliance and documentation is current and available		Overall administrative BMP compliance and documentation is moderately implemented		Overall administrative BMP compliance and documentation inadequate.	
		A Rating		B Rating		C Rating	
1	28	16	57%	4	14%	8	29%
2	36	23	64%	11	31%	2	6%
3	23	15	65%	6	26%	2	9%
4	25	9	36%	7	28%	9	36%
5	28	12	43%	3	11%	13	46%
6	18	8	44%	7	39%	3	17%
7	18	3	17%	9	50%	6	33%
8	21	8	38%	4	19%	9	43%
9	11	7	64%	2	18%	2	18%
10	18	14	78%	1	6%	3	17%
11	6	4	67%	1	17%	1	17%
12	6	1	17%	3	50%	2	33%
TOTAL	238	120	50%	58	24%	60	25%

Figure E-7 summarizes the results of maintenance facility compliance inspections.

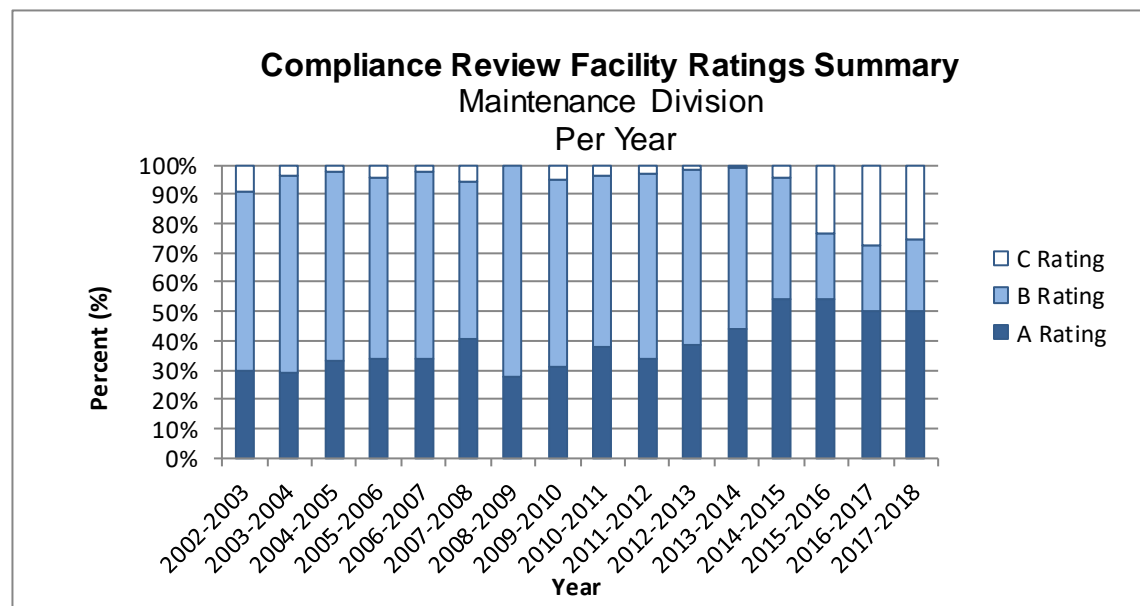


Figure E-7: Statewide Compliance Review Facility Ratings Summary

Maintenance activities are organized into several Families (Families A to T) as specified in Caltrans' Stormwater Quality Handbook, Maintenance Staff Guide (CTSW-RT-02-057), October 2009 (interim, revised September 2012), and consistent with Caltrans' methods of planning and implementing these activities. They represent typical maintenance tasks that may potentially affect stormwater. The 60 maintenance activities are grouped into 12 Families that represent tasks of similar nature. Certain BMPs are commonly applied to all maintenance activities and are defined as general BMPs. Maintenance of Caltrans facilities is tracked in the T Family, Management and Support. The T Family includes the maintenance activities for permanent maintenance facilities including Building and Grounds Maintenance and protection of Outdoor Storage of Raw Materials from the effects of rain and wind. Eight activities that belong to the T Family were evaluated during facility compliance reviews. Table E-5 below summarizes the T Family activities reviewed and their numeric ratings.

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Table E-5: Facility Rating Summary – T Family Activity Fiscal Year 2017–2018

T Family Activity	No. of Activities Reviewed	Compliant						Non-Compliant			
		Appropriate BMPs Implemented				Appropriate BMPs not Implemented		Released from Facility		Discharge to Surface Water	
		And Effective		<100% Effective							
		1 Rating		2 Rating		3 Rating		4 Rating		5 Rating	
Building and Grounds Maintenance	235	89	38%	137	58%	9	4%	0	0%	0	0%
Storage of Hazardous Materials (Working Stock)	128	71	55%	56	44%	1	1%	0	0%	0	0%
Material Storage Control (Hazardous Waste)	88	74	84%	13	15%	1	1%	0	0%	0	0%
Outdoor Storage of Raw Materials	105	53	50%	37	35%	15	15%	0	0%	0	0%
Vehicle and Equipment Fueling	61	31	51%	30	49%	0	0%	0	0%	0	0%
Vehicle and Equipment Cleaning	63	39	62%	24	38%	0	0%	0	0%	0	0%
Vehicle and Equipment Maintenance and Repair	66	32	48%	34	52%	0	0%	0	0%	0	0%
Aboveground and Underground Tank Leak and Spill Control	76	62	82%	13	17%	1	1%	0	0%	0	0%
Total	822	451	55%	344	42%	27	3%	0	0%	0	0%

The team performed 139 inspections of maintenance activities (employees work locations, jobsites), averaging 11.6 individual maintenance activities per District. The results indicated the following:

- 138 activities (99.3%) received a rating of 1 or 2.
- One activity (<1%) received a 3 rating.
- No activities received a 4 or 5 rating.
- 129 activities (92.8%) were rated 1.
- 9 activities (6.5%) were rated 2.

Table E-6 summarizes the compliance review ratings by District.

Table E-6: Compliance Review Activity Rating Summary- By District

District	No. of Activities Reviewed	Appropriate and Effective BMPs		Appropriate BMPs, Not 100% Effective		Appropriate BMPs Not Implemented		Release Outside of Caltrans ROW		Release to Surface Water	
		Compliant		Minor Deficiencies				Major Deficiencies		Critical Deficiencies	
		1 Rating		2 Rating		3 Rating		4 Rating		5 Rating	
1	10	10	100%	0	0%	0	0%	0	0%	0	0%
2	13	13	100%	0	0%	0	0%	0	0%	0	0%
3	12	12	100%	0	0%	0	0%	0	0%	0	0%
4	16	14	88%	2	13%	0	0%	0	0%	0	0%
5	13	13	100%	0	0%	0	0%	0	0%	0	0%
6	12	11	92%	1	8%	0	0%	0	0%	0	0%
7	11	9	82%	2	18%	0	0%	0	0%	0	0%
8	11	10	91%	1	9%	0	0%	0	0%	0	0%
9	8	6	75%	1	13%	1	13%	0	0%	0	0%
10	12	12	100%	0	0%	0	0%	0	0%	0	0%
11	10	10	100%	0	0%	0	0%	0	0%	0	0%
12	11	9	82%	2	18%	0	0%	0	0%	0	0%
Total	139	129	92.8%	9	6.5%	1	0.7%	0	0%	0	0%

Table E-7 summarizes compliance review activity numeric ratings by Maintenance Family.

Table E-7: Compliance Review Activity Numeric Ratings Summary – By Maintenance Family

Maintenance Family	No. of Activities Reviewed	Appropriate & Effective BMPs		Appropriate BMPs, Not 100% Effective		Appropriate BMPs Not Implemented					
						No Release		Release Outside of Caltrans ROW		Release to Surface Water	
		Compliant		Minor Deficiencies				Major Deficiencies		Critical Deficiencies	
		1 Rating		2 Rating		3 Rating		4 Rating		5 Rating	
A Family – Flexible Pavement	10	10	100%	0	0%	0	0%	0	0%	0	0%
B Family – Rigid Pavement	1	1	100%	0	0%	0	0%	0	0%	0	0%
C Family – Slope/Drain/Vegetation	42	38	90.5%	3	7.1%	1	2.4%	0	0%	0	0%
D Family – Litter/Debris/Graffiti	21	20	95.2%	1	4.8%	0	0%	0	0%	0	0%
E Family – Landscaping	15	13	86.7%	2	13.3%	0	0%	0	0%	0	0%
F Family – Environmental	14	14	100%	0	0%	0	0%	0	0%	0	0%
G Family – Public Facilities	0	0	0%	0	0%	0	0%	0	0%	0	0%
H Family – Bridges	2	2	100%	0	0%	0	0%	0	0%	0	0%
J Family – Other Structures	0	0	0%	0	0%	0	0%	0	0%	0	0%
K Family – Electrical	4	2	50%	2	50%	0	0%	0	0%	0	0%
M Family – Traffic Guidance	24	24	100%	0	0%	0	0%	0	0%	0	0%
R Family – Snow and Ice Removal	1	1	100%	0	0%	0	0%	0	0%	0	0%
S Family – Storm Maintenance	4	3	75%	1	25%	0	0%	0	0%	0	0%
T Family – Management and Support 1	1	1	100%	0	0%	0	0%	0	0%	0	0%
Total	139	129	92.8%	9	6.5%	1	0.7%	0	0%	0	0%

A History of Maintenance Facility Inspections from the 2002-2003 fiscal year to the 2017-2018 fiscal year is included in Appendix G on the CD. The Maintenance compliance monitoring program is discussed in Section 8 of the Annual Report.

Figure E-8 summarizes compliance review activity ratings per District.

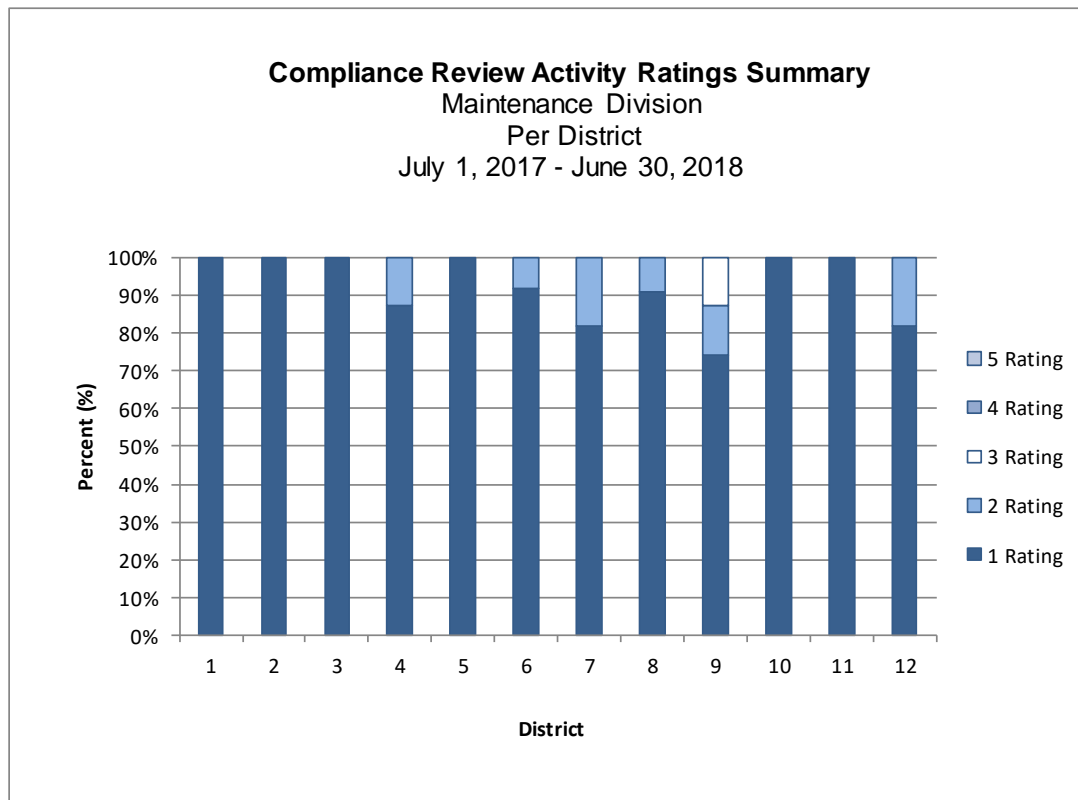


Figure E-8: Compliance Review Activity Ratings Summary by District

Landslide Management Plan

Enhanced Storm Drain Inspection and Cleaning Activities

The Division of Maintenance implements an Enhanced Annual Storm Drain Inlet Inspection and Cleaning Program in the metropolitan areas of Los Angeles and Ventura (District 7), Orange (District 12), and San Diego (District 11) counties. Table E-8 summarizes the number of drain inlets inspected and cleaned by Division of Maintenance crews.

*Table E-8: Maintenance Crew Enhanced Storm Drain Inlet and Cleaning by District,
Fiscal Year 2017-2018*

District	County	Route	Post Mile	Number of Drain Inlets Inspected	Number of Drain Inlets Cleaned
7	Los Angeles	1	0.3-36.1	482	358
7	Los Angeles	2	14.43-18.67	194	72
7	Los Angeles	5	7.73-59.45	1,924	1,304
7	Los Angeles	10	1.88-31.1	2,258	1,038
7	Los Angeles	60	0.02-30.5	1,099	590
7	Los Angeles	101	0.09-38.03	1,245	622
7	Los Angeles	105	2.4-17.28	793	315
7	Los Angeles	110	14.12-31.88	759	585
7	Los Angeles	118	0.02-19.2	830	610
7	Los Angeles	134	0.2-13.27	413	213
7	Los Angeles	164	1.41-6.48	48	6
7	Los Angeles	187	3.31-8.21	55	29
7	Los Angeles	210	0.31-36.8	747	368
7	Los Angeles	405	21.2-39.29	827	328
7	Los Angeles	605	7.45-26.3	537	172
7	Los Angeles	710	6.67-27.5	849	529
District 7 Subtotal				13,060	7,139
11	Imperial	7	0-6.82	61	59
11	Imperial	8	11.9-96.98	-	68
11	Imperial	78	35-75	-	590
11	Imperial	86	0-67	-	62
11	Imperial	98	0-56.6	-	51
11	Imperial	111	0-22	-	35
11	San Diego	5	0.305-72.2	166	85
11	San Diego	8	0.927-77.6	31	748
11	San Diego	15	0.405-54.258	150	341
11	San Diego	52	0.25-17.271	78	123
11	San Diego	54	0.16-6.303	21	33
11	San Diego	67	0-24.37	-	131
11	San Diego	76	9.928-52	2	34

**Table E-8: Maintenance Crew Enhanced Storm Drain Inlet and Cleaning by District,
Fiscal Year 2017-2018**

District	County	Route	Post Mile	Number of Drain Inlets Inspected	Number of Drain Inlets Cleaned
11	San Diego	78	0-70	5	143
11	San Diego	79	0.01-53	-	108
11	San Diego	94	1.848-29.87	1	234
11	San Diego	125	9.65-22.3	-	25
11	San Diego	163	1.167-11.132	-	39
11	San Diego	188	0.11-1.85	28	3
11	San Diego	805	0.149-28.74	94	210
11	San Diego	905	4.409-8.966	-	18
District 11 Subtotal				637	3,140
12	Orange	1	0.1-33.7	352	5
12	Orange	22	0.0-13.1	146	17
12	Orange	5	0.0-44.3	2100	6
12	Orange	39	0.0-23.1	39	17
12	Orange	55	0.0-17.8	285	1
12	Orange	57	10.7-22.5	80	29
12	Orange	73	10.2-27.7	69	50
12	Orange	74	0.2-16.5	13	13
12	Orange	91	0.2-18.9	504	3
12	Orange	90	12.-12.5	7	7
12	Orange	133	0.0-8.9	100	2
12	Orange	241	14.5-39.0	345	-
12	Orange	261	0.0-6.2	190	-
12	Orange	405	0.3-24.1	175	27
District 12 Subtotal				4,405	177

Slope Inspections

Caltrans' Division of Maintenance has an ongoing program in accordance with Caltrans' NPDES Permit Section E.2.h.3) a) iii) and the Caltrans SWMP to inspect roadside vegetated slopes for erosion. This requirement is led by District Maintenance Stormwater Coordinators who are members of the Maintenance Stormwater Advisory Teams (MSWAT).

The inspections are conducted on a five-year cycle. In addition to the SWMP mandated program, the Division of Maintenance conducts a storm patrol and erosion control program.

Maintenance Supervisors and delegated staff patrol the state's highway system to inspect for any issues related to safety, facility preservation and erosion control due to storm events. The Division of Maintenance also investigates public complaints related to stormwater damage during these times.

These inspections and patrols typically generate erosion control projects. The Division of Maintenance will normally conduct minor storm damage repair on projects in which the cost does not exceed \$1,000 per site or \$15,000 per mile. Table E-9 summarizes the slope inspections conducted by District Maintenance Stormwater Coordinators during the fiscal year.

Table E-9: Slope Inspection Summary, Fiscal Year 2017-2018

District	Total Shoulder Miles	Total Shoulder Miles Inspected	Minor Repair Needs Found	Major Repair Needs Found
1	2,611	94	38	1
2	4,727	1,607	136	31
3	4,172	1,422	59	34
4	4,355	1,311	15	17
5	3,583	841	2	7
6	6,372	0	1	2
7	3,510	783	2	0
8	6,327	0	0	0
9	1,978	319	4	0
10	3,309	647	2	3
11	3,085	547	2	0
12	942	42	35	8
Total	44,971	7,614	296	103

Trash and Litter Removal Activities

Caltrans collects trash through several activities that District Maintenance personnel perform on a regular basis. These activities include storm drain maintenance, roadway sweeping, the Caltrans Parolee Program, the Adopt-A-Highway Program, and public education emphasizing trash and litter prevention. Table E-10 shows the amount of trash and litter removed from Caltrans' activities.

Table E-10: Summary of Maintenance Trash and Litter Volumes (cubic yards) Removed by District

District	Storm Drain Maintenance	Road Sweeping	District Crew Collection	Caltrans Parolee Program	Caltrans Adopt-A-Highway Program	Public Education
1	103	3,488	3,246	-	325	297
2	1,137	1,711	5,698	-	199	363
3	11,726	12,453	17,384	5,058	825	323
4	3,143	13,220	43,718	4,306	3,453	3,586
5	1,147	2,460	4,516	-	1,486	507
6	1,697	3,924	28,610	6,269	407	977
7	1,019	15,956	33,893	24,033	1,107	3,163
8	2,176	11,115	35,451	2,302	1,754	1,749
9	76	1,736	1,562	-	378	7
10	1,097	3,298	8,182	4,103	647	875
11	4,895	9,310	17,280	6,626	1,061	916
12	3,307	5,608	8,924	-	1,475	250
Total	31,523	84,279	208,464	52,697	13,117	13,013

Drain Inlets/Culverts Inspected and Cleaned

Over 140,947 drainage system facilities were inspected and cleaned as needed during fiscal year 2017-2018. Drainage system maintenance is discussed in Section 8 of the Annual Report. Table E-11 summarizes the drain inlets and culverts inspected and cleaned during the fiscal year.

Table E-11: Drain Inlets/Culverts Inspected and Cleaned, Fiscal Year 2017-2018

District	Total # of Drain Inlets	Total # of Drain Inlets/Culverts Inspected	Total # of Drain Inlets/Culverts Cleaned
1	26,547	9,692	4,631
2	36,576	13,091	10,559
3	36,956	26,276	25,737
4	55,875	14,254	12,924
5	37,049	9,825	8,075
6	50,242	10,704	9,200
7	29,735	4,827	3,690
8	41,150	14,665	9,216
9	11,213	2,412	1,117
10	33,285	12,588	9,724
11	24,158	14,595	7,054
12	13,739	8,018	3,285
Total	396,525	140,947	105,212

Detailed Division of Maintenance Drain Inlet Inspection and Cleaning Data for the fiscal year are contained in Appendix I to this report.