

VM Program Overview

December 10, 2021

2021 QC Mileage Productivity

2021 QC Mileage Targets

Month	HFRA & Non-HFRA				HFRA				Non-HFRA			
	Goal	Actual	Plus Delta	% to 8145	Goal	Actual	Plus Delta	% to 6125	Goal	Actual	Plus Delta	% to 2020
January	678.75	755	76.25	9.3	510.4	679	168.6	11.0	168.3	74	94.3	3.6
February	1357.50	1854	496.50	22.7	1020.8	1452	431.2	23.7	336.6	400	63.4	19.8
March	2036.25	2415	378.75	29.6	1531.2	1803	271.8	29.4	504.9	610	105.1	30.2
April	2715.00	3066	351.0	37.6	2041.6	2321	279.4	37.8	673.2	737	63.8	36.4
May	3393.75	4016	622.25	49.3	2552.0	3052	500.0	49.8	841.5	954	112.5	47.2
June	4072.50	4601	528.50	56.4	3062.4	3503	440.6	57.1	1009.8	1065	55.2	52.6
July	4751.25	5238	486.75	64.3	3572.8	4063	490.2	66.4	1178.1	1142	36.0	56.5
August	5430.00	6438	1008.0	79.0	4083.2	4672	588.8	76.2	1346.4	1731	384.6	85.7
September	6108.75	7308	1199.25	89.7	4593.6	5303	709.4	86.6	1514.7	2005	490.3	99.3
October	6787.50	7869	1081.50	96.6	5104.0	5712	608.0	93.2	1683.0	2157	474.0	106.8
November	7466.25	8356	889.75	102.5	5614.4	5989	374.6	97.7	1851.3	2367	515.7	117.2
December	8145.00				6125.0				2020.0			

- Goal/Actual columns are “cumulative miles”
- 2021 QC Plan mileage target is 8145 circuit miles: $8145 \text{ miles} \div 12 \text{ months} = 678.75 \text{ miles per month}$
- Compliance QC is currently fully staffed at 26 FTE (20 field, 2 QC for verification of remediations, 4 field supervisors)
- $8145 \text{ miles} \div 20 \text{ inspectors} = 407.25 \text{ miles per year per inspector}$, $(407.25 \div 220 \text{ days} = 1.851 \text{ miles per day})$

RCD / CCD Performance – 2021 3 Months rolling & YTD

RCD CONFORMANCE % – OVERALL VM PROGRAM				
	September	October	November	YTD
T & D	99.02	99.09	99.28	99.22
Transmission	92.08	99.11	99.91	98.32
Distribution	99.30	99.09	99.27	99.27
RCD CONFORMANCE % – PRUNING CONTRACTORS				
T & D	98.91	99.12	99.33	99.17
Transmission	87.64	99.09	99.88	97.44
Distribution	99.31	99.12	99.31	99.24
RCD CONFORMANCE % – INSPECTION CONTRACTORS				
T & D	99.41	99.23	99.47	99.47
Transmission	98.87	99.17	100.00	99.54
Distribution	99.43	99.24	99.45	99.47

RCD = Regulation Clearance Distance NIP = No QC Inspections Performed Transmission RCD incorporates Sag & Sway

CCD CONFORMANCE % – OVERALL VM PROGRAM				
	September	October	November	YTD
T & D	96.90	95.39	96.46	96.30
Transmission	88.82	95.66	99.91	96.15
Distribution	97.23	95.37	96.37	96.31
CCD CONFORMANCE % – PRUNING CONTRACTORS				
T & D	98.13	97.64	97.58	96.95
Transmission	87.42	97.50	99.88	94.53
Distribution	98.51	97.64	97.48	97.05
CCD CONFORMANCE % – INSPECTION CONTRACTORS				
T & D	97.68	95.65	96.96	97.46
Transmission	96.98	94.21	100.00	98.96
Distribution	97.71	95.76	96.88	97.38

QC Tier 1 CCD Metric

CCD = Compliance Clearance Distance NIP = No QC Inspections Performed Transmission CCD incorporates Sag & Sway

AQL RCD = 100%
AQL CCD = 95%

< 90%	90% to < 95%	95% to < 97%	97% to < 98%	98% to < 99%	99% to 100%
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NOTE: RCD and CCD results indicate tree condition clearance at time of QC, not at time of trim

YTD VM Performance – Transmission & Distribution

VM Lead: Bill

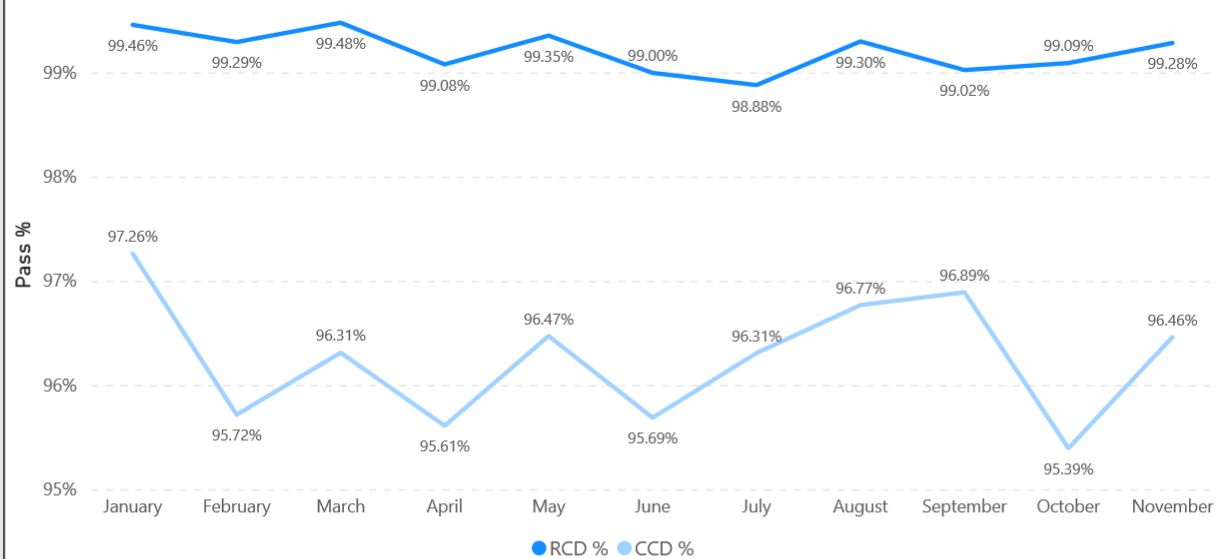
Pass % by District

District	Trees Inspected	RCD Pass %	CCD Pass %
Fullerton	2030	100.00%	99.31%
Ridgecrest	144	100.00%	100.00%
San Joaquin	6010	99.98%	99.67%
Wildomar	15833	99.96%	99.34%
Big Creek	1663	99.94%	99.64%
Tehachapi	4461	99.91%	99.64%
29-Palms	2114	99.91%	99.01%
Huntington Beach	1767	99.89%	99.21%
Bishop/Mammoth	6494	99.83%	99.28%
Ontario	9318	99.83%	98.72%
Whittier	6404	99.83%	98.45%
Santa Monica	7304	99.77%	98.48%
Santa Ana	4259	99.77%	99.11%
Menifee	26801	99.76%	98.50%
Palm Springs	2339	99.74%	98.80%
Kernville	9608	99.64%	96.69%
Covina	21137	99.59%	98.27%
Compton	2610	99.50%	98.58%
Antelope Valley	11526	99.39%	95.86%
Ventura	20912	99.33%	96.59%
Thousand Oaks	26057	98.96%	96.02%
Arrowhead	36713	98.94%	94.42%
Long Beach	3567	98.93%	93.72%
South Bay	12595	98.90%	94.87%
Victorville	6055	98.78%	92.85%
Monrovia	20012	98.67%	92.99%
Foothill	3868	98.42%	95.40%
Catalina	375	98.40%	95.73%
Valencia	9381	98.06%	93.00%
Redlands	9363	98.06%	91.47%

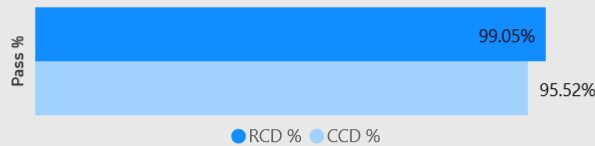
Distribution

Transmission

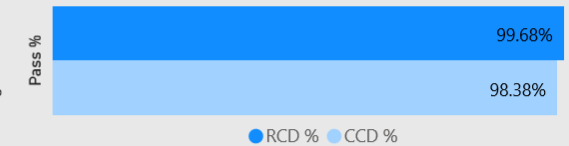
Clearance Pass % by Month



HFRA Clearance Pass %



Non HFRA Clearance Pass %



Total Trees Inspected

310242

Overall RCD Pass %

99.22%

Overall CCD Pass %

96.30%

AQL RCD = 100%
AQL CCD = 95%

NOTE: RCD & CCD results indicate tree condition clearance at time of QC, not at time of trim

T	Compliance Zone	HFRA	D	Compliance Zone	HFRA	Non-HFRA
	RCD = Regulation Clearance Distance	10'		RCD = Regulation Clearance Distance	4'	18"
	CCD = Compliance Clearance Distance (RCD x 1.5)	15'		CCD = Compliance Clearance Distance (RCD x 1.5)	6'	3'

YTD VM Performance – Transmission

VM Lead: Bill

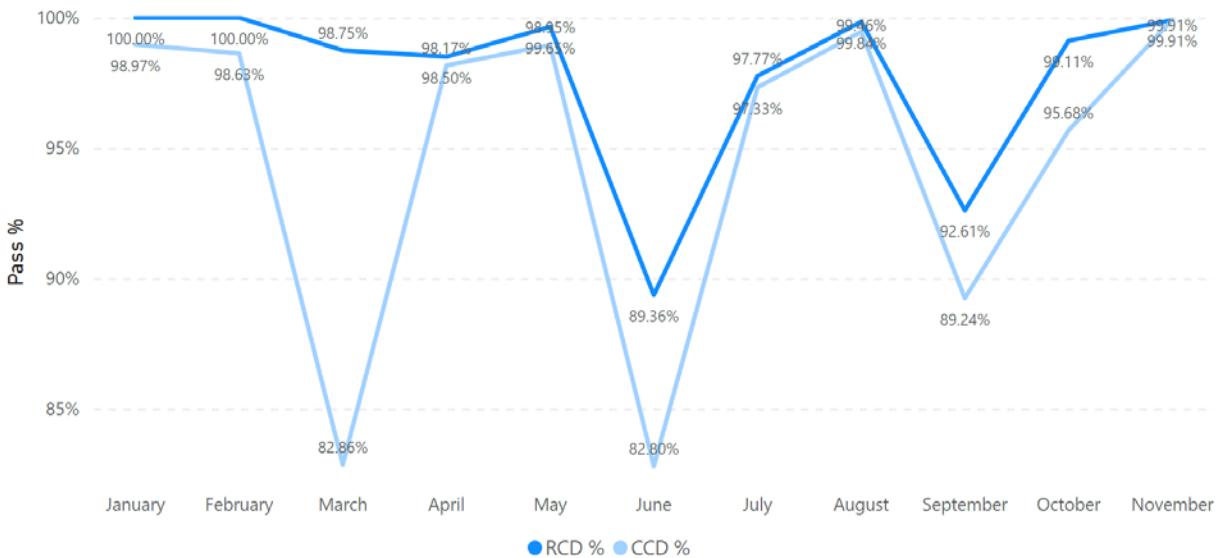
Pass % by District

District	Trees Inspected	RCD Pass %	CCD Pass %
Whittier	130	100.00%	100.00%
Ventura	241	100.00%	100.00%
Valencia	699	99.71%	98.43%
Thousand Oaks	794	89.17%	85.01%
Tehachapi	133	100.00%	100.00%
South Bay	263	98.10%	93.92%
Santa Barbara	618	100.00%	100.00%
San Joaquin	1627	100.00%	100.00%
Saddleback	682	94.72%	72.87%
Redlands	464	98.49%	90.52%
Ontario	834	100.00%	100.00%
Montebello	499	86.37%	82.16%
Monrovia	1285	97.98%	96.89%
Menifee	134	100.00%	100.00%
Long Beach	469	99.79%	99.79%
Covina	173	100.00%	100.00%
Big Creek	616	100.00%	100.00%
Antelope Valley	2328	100.00%	99.36%

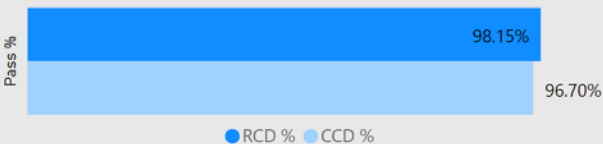
Distribution

Transmission

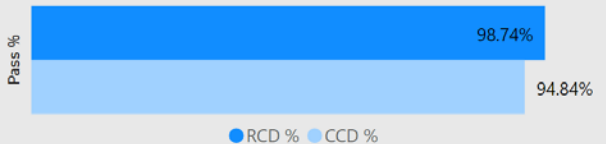
Clearance Pass % by Month



HFRA Clearance Pass %



Non HFRA Clearance Pass %



Total Trees Inspected

14113

Overall RCD Pass %

98.32%

Overall CCD Pass %

96.15%

NOTE: RCD & CCD results indicate tree condition clearance at time of QC, not at time of trim

Compliance Zone	HFRA
RCD = Regulation Clearance Distance	10'
CCD = Compliance Clearance Distance (RCD x 1.5)	15'

AQL RCD = 100%
AQL CCD = 95%

YTD VM Performance – Distribution

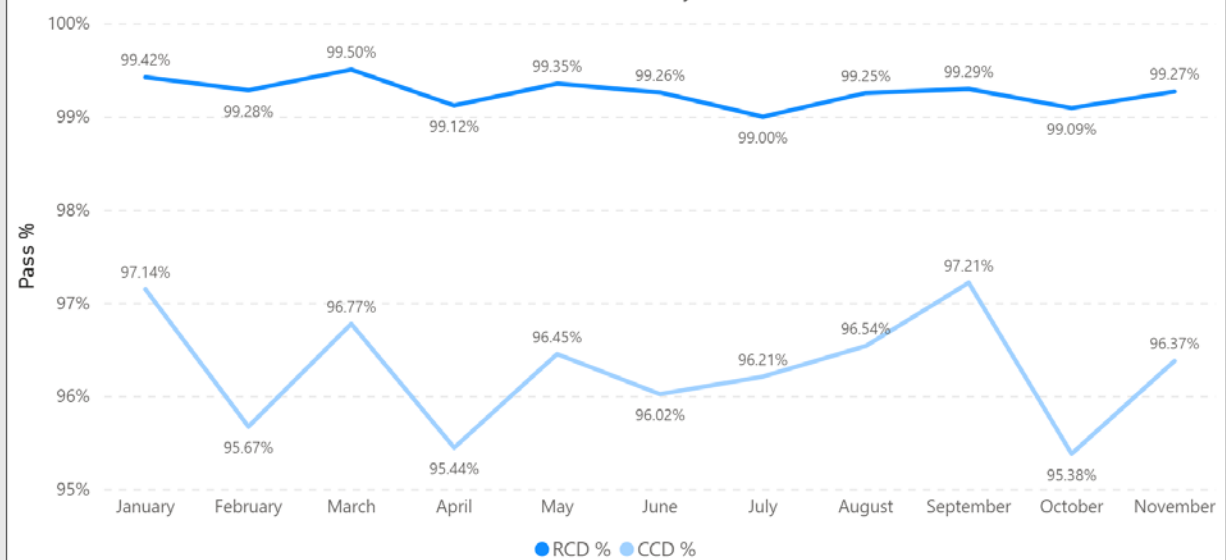
Pass % by District

District	Trees Inspected	RCD Pass %	CCD Pass %
Wildomar	15831	99.96%	99.34%
Whittier	6274	99.82%	98.42%
Victorville	6055	98.78%	92.85%
Ventura	20644	99.32%	96.55%
Valencia	8627	97.91%	92.51%
Thousand Oaks	25263	99.27%	96.37%
Tehachapi	4318	99.91%	99.63%
South Bay	12300	98.92%	94.92%
Santa Monica	7304	99.77%	98.48%
Santa Barbara	4102	97.51%	90.59%
Santa Ana	4259	99.77%	99.11%
San Joaquin	4383	99.98%	99.54%
Saddleback	1244	99.44%	97.11%
Ridgecrest	144	100.00%	100.00%
Redlands	8899	98.03%	91.52%
Palm Springs	2339	99.74%	98.80%
Ontario	8482	99.81%	98.60%
Montebello	2333	99.49%	96.96%
Monrovia	18682	98.71%	92.70%
Menifee	26644	99.76%	98.49%
Long Beach	3098	98.81%	92.80%
Kernville	9608	99.64%	96.69%
Huntington Beach	1767	99.89%	99.21%
Fullerton	2030	100.00%	99.31%
Foothill	3868	98.42%	95.40%
Covina	20964	99.59%	98.25%
Compton	2610	99.50%	98.58%
Catalina	375	98.40%	95.73%
Bishop/Mammoth	6494	99.83%	99.28%
Big Creek	1047	99.90%	99.43%

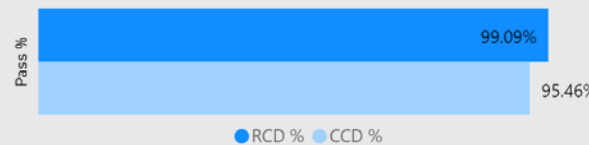
Distribution

Transmission

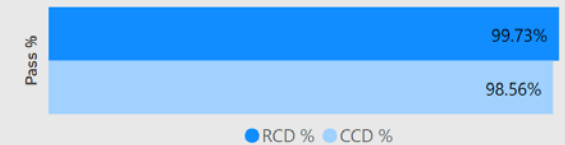
Clearance Pass % by Month



HFRA Clearance Pass %



Non HFRA Clearance Pass %



Total Trees Inspected

296035

Overall RCD Pass %

99.27%

Overall CCD Pass %

96.31%

NOTE: RCD & CCD results indicate tree condition clearance at time of QC, not at time of trim

AQL RCD = 100%
AQL CCD = 95%

VM Performance – T & D (Rolling 12 months)

VM Lead: Bill

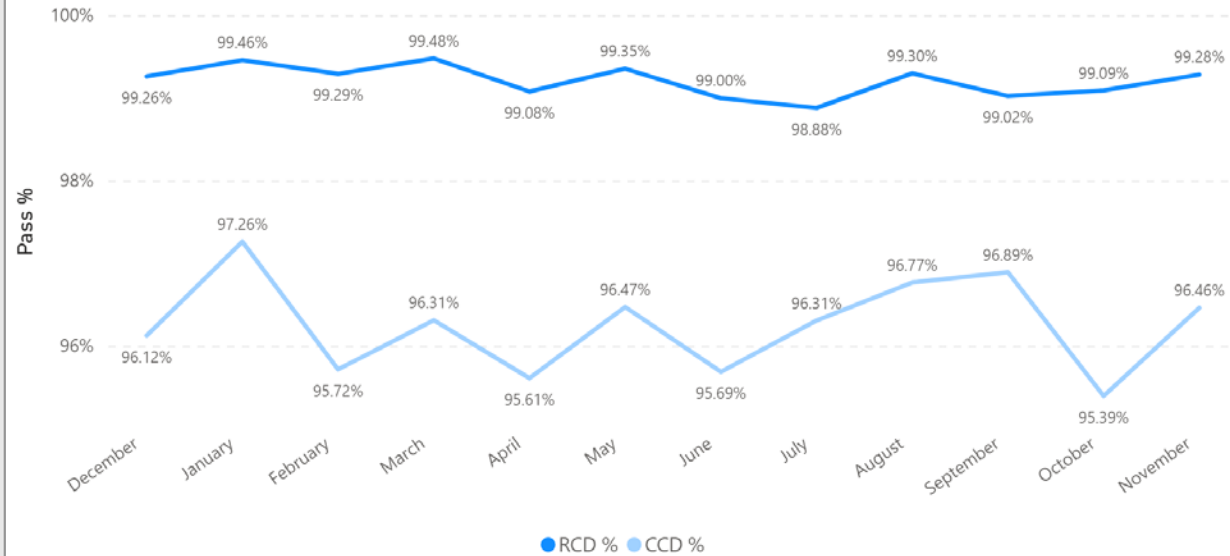
Pass % by District

District	Trees Inspected	RCD Pass %	CCD Pass %
Fullerton	2030	100.00%	99.31%
Ridgecrest	144	100.00%	100.00%
San Joaquin	6602	99.98%	99.65%
Wildomar	17612	99.95%	99.30%
Tehachapi	6666	99.91%	99.37%
29-Palms	2114	99.91%	99.01%
Huntington Beach	1767	99.89%	99.21%
Big Creek	2049	99.85%	99.56%
Bishop/Mammoth	6494	99.83%	99.28%
Ontario	9318	99.83%	98.72%
Whittier	6404	99.83%	98.45%
Santa Ana	4378	99.77%	99.02%
Santa Monica	7304	99.77%	98.48%
Menifee	33524	99.70%	98.00%
Palm Springs	3420	99.68%	98.36%
Covina	21991	99.59%	98.30%
Compton	2610	99.50%	98.58%
Kernville	12642	99.49%	96.50%
Antelope Valley	12705	99.41%	95.93%
Ventura	25818	99.25%	96.30%
Arrowhead	41442	98.98%	94.46%
Thousand Oaks	26648	98.96%	96.01%
Long Beach	3567	98.93%	93.72%
South Bay	13794	98.80%	94.73%
Victorville	6055	98.78%	92.85%
Monrovia	20733	98.66%	93.02%
Foothill	3868	98.42%	95.40%
Catalina	375	98.40%	95.73%
Redlands	11613	98.35%	92.64%
Valencia	12251	98.30%	93.49%
Saddleback	2043	97.90%	88.94%

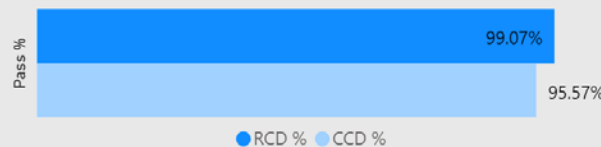
Distribution

Transmission

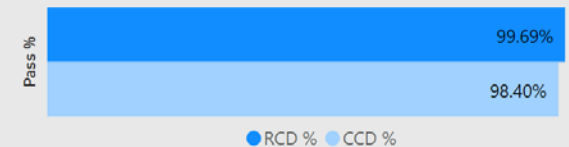
Clearance Pass % by Rolling 12-Month Period (2021)



HFRA Clearance Pass %



Non HFRA Clearance Pass %



Total Trees Inspected

346718

Overall RCD Pass %

99.22%

Overall CCD Pass %

96.28%

NOTE: RCD & CCD results indicate tree condition clearance at time of QC, not at time of trim

T	Compliance Zone	HFRA	D	Compliance Zone	HFRA	Non-HFRA
	RCD = Regulation Clearance Distance	10'		RCD = Regulation Clearance Distance	4'	18"
	CCD = Compliance Clearance Distance (RCD x 1.5)	15'		CCD = Compliance Clearance Distance (RCD x 1.5)	6'	3'

VM Performance – Transmission (Rolling 12 months)

VM Lead: Bill

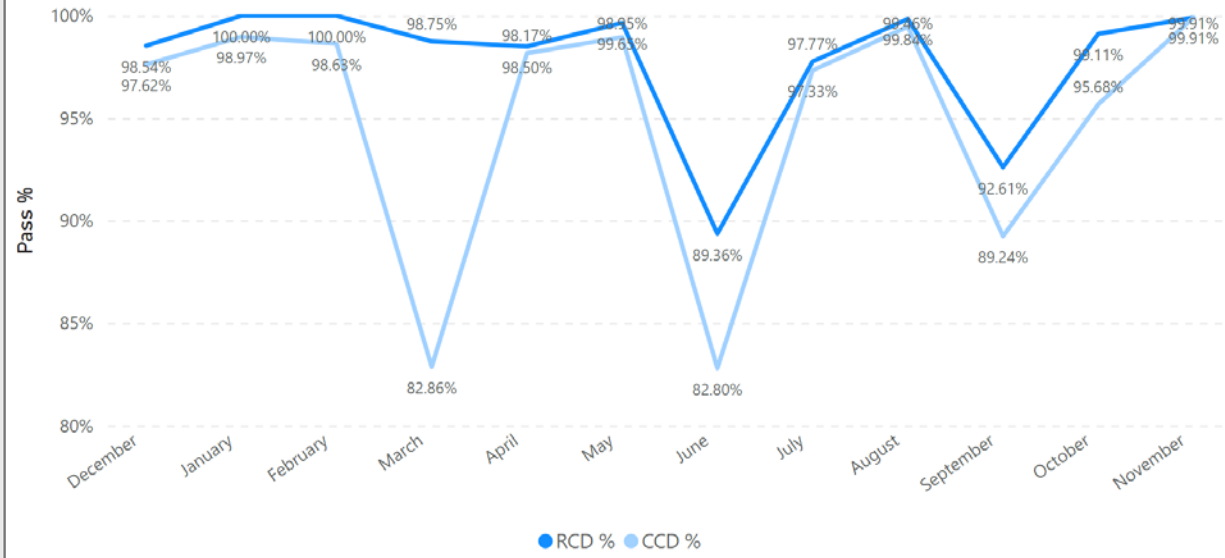
Pass % by District

District	Trees Inspected	RCD Pass %	CCD Pass %
Antelope Valley	2570	100.00%	99.42%
Big Creek	616	100.00%	100.00%
Covina	440	100.00%	100.00%
Menifee	134	100.00%	100.00%
Ontario	834	100.00%	100.00%
San Joaquin	1627	100.00%	100.00%
Santa Barbara	619	100.00%	100.00%
Tehachapi	133	100.00%	100.00%
Ventura	241	100.00%	100.00%
Whittier	130	100.00%	100.00%
Long Beach	469	99.79%	99.79%
Valencia	929	99.78%	98.82%
Redlands	464	98.49%	90.52%
South Bay	263	98.10%	93.92%
Monrovia	1285	97.98%	96.89%
Saddleback	682	94.72%	72.87%
Thousand Oaks	794	89.17%	85.01%
Montebello	499	86.37%	82.16%

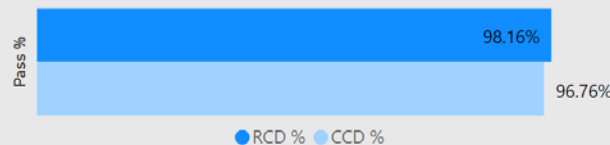
Distribution

Transmission

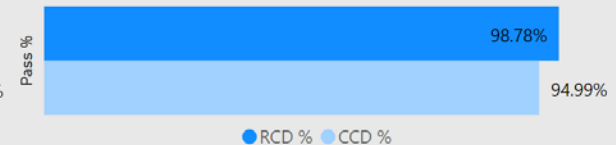
Clearance Pass % by Rolling 12-Month Period (2021)



HFRA Clearance Pass %



Non HFRA Clearance Pass %



Total Trees Inspected

15219

Overall RCD Pass %

98.34%

Overall CCD Pass %

96.26%

NOTE: RCD & CCD results indicate tree condition clearance at time of QC, not at time of trim

T	Compliance Zone	HFRA	D	Compliance Zone	HFRA	Non-HFRA
	RCD = Regulation Clearance Distance	10'		RCD = Regulation Clearance Distance	4'	18"
	CCD = Compliance Clearance Distance (RCD x 1.5)	15'		CCD = Compliance Clearance Distance (RCD x 1.5)	6'	3'

VM Performance – Distribution (Rolling 12 months)

VM Lead: Bill

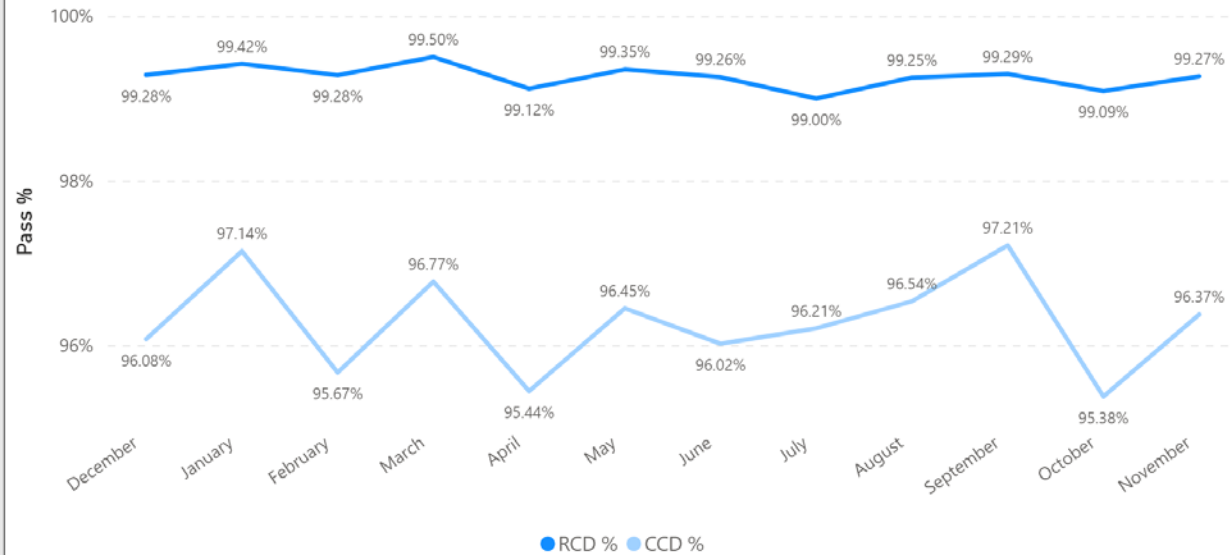
Pass % by District

District	Trees Inspected	RCD Pass %	CCD Pass %
Fullerton	2030	100.00%	99.31%
Ridgecrest	144	100.00%	100.00%
San Joaquin	4975	99.98%	99.54%
Wildomar	17610	99.95%	99.30%
Tehachapi	6501	99.91%	99.35%
29-Palms	2114	99.91%	99.01%
Huntington Beach	1767	99.89%	99.21%
Bishop/Mammoth	6494	99.83%	99.28%
Whittier	6274	99.82%	98.42%
Ontario	8482	99.81%	98.60%
Big Creek	1433	99.79%	99.37%
Santa Ana	4378	99.77%	99.02%
Santa Monica	7304	99.77%	98.48%
Menifee	33367	99.70%	98.00%
Palm Springs	3420	99.68%	98.36%
Covina	21471	99.58%	98.26%
Compton	2610	99.50%	98.58%
Kernville	12642	99.49%	96.50%
Saddleback	1361	99.49%	96.99%
Montebello	2333	99.49%	96.96%
Thousand Oaks	25854	99.27%	96.35%
Antelope Valley	10135	99.26%	95.05%
Ventura	25550	99.24%	96.26%
Arrowhead	41442	98.98%	94.46%
South Bay	13499	98.81%	94.77%
Long Beach	3098	98.81%	92.80%
Victorville	6055	98.78%	92.85%
Monrovia	19398	98.70%	92.75%
Foothill	3868	98.42%	95.40%
Catalina	375	98.40%	95.73%
Redlands	11149	98.34%	92.73%

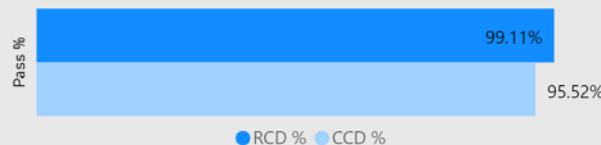
Distribution

Transmission

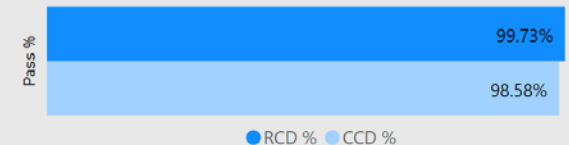
Clearance Pass % by Rolling 12-Month Period (2021)



HFRA Clearance Pass %



Non HFRA Clearance Pass %



Total Trees Inspected

331405

Overall RCD Pass %

99.27%

Overall CCD Pass %

96.29%

NOTE: RCD & CCD results indicate tree condition clearance at time of QC, not at time of trim

T	Compliance Zone	HFRA	D	Compliance Zone	HFRA	Non-HFRA
	RCD = Regulation Clearance Distance	10'		RCD = Regulation Clearance Distance	4'	18"
	CCD = Compliance Clearance Distance (RCD x 1.5)	15'		CCD = Compliance Clearance Distance (RCD x 1.5)	6'	3'

VM Performance – T & D 80%/20% (Rolling 12 months)

VM Lead: Bill

Routine & Cyclebuster - QC Results

Distribution

Transmission

Fire Risk Area

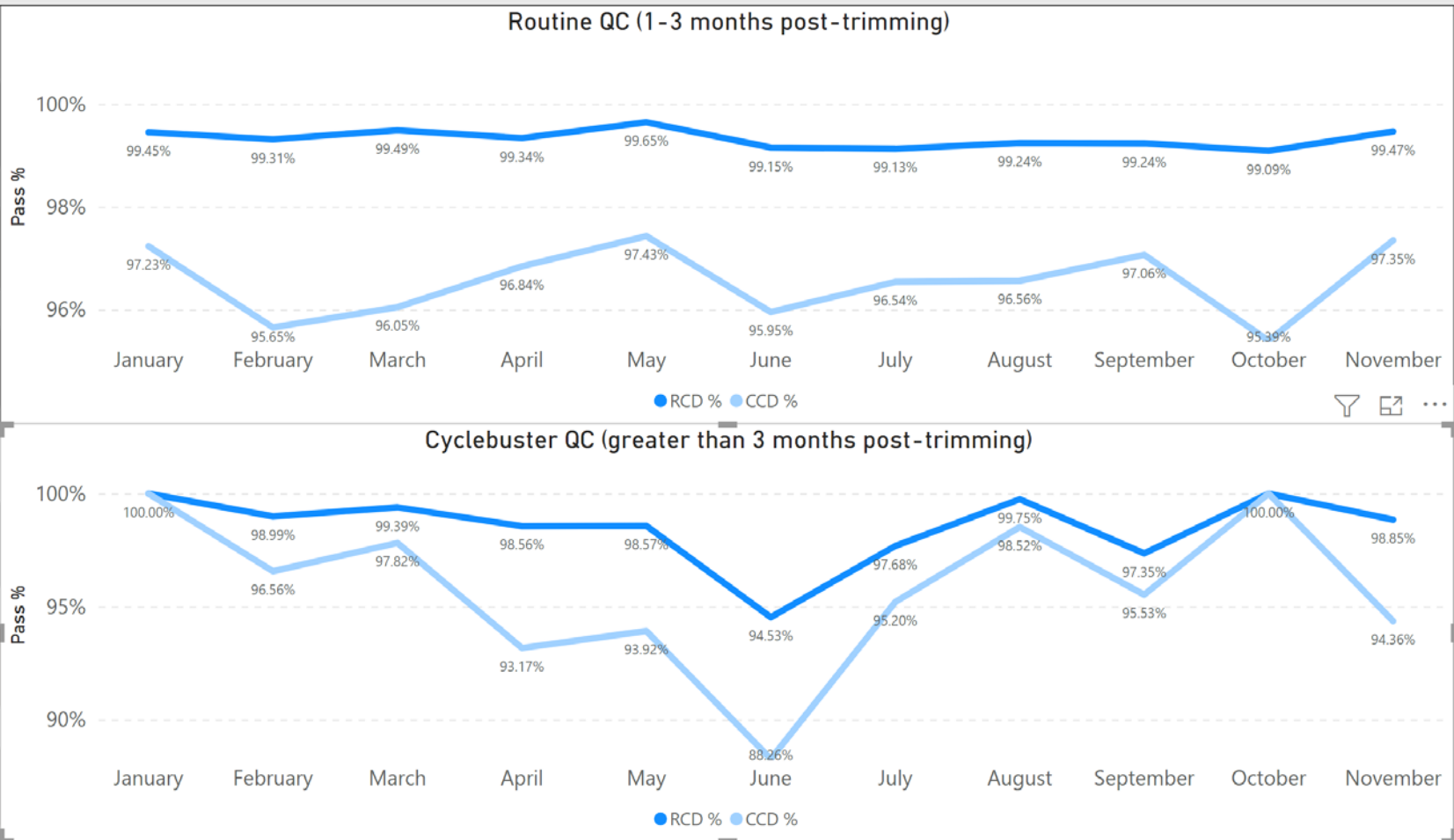
All

Tree Contractor

All

Inspection Contractor

All



NOTE: RCD & CCD results indicate tree condition clearance at time of QC, not at time of trim

T	Compliance Zone	HFRA	D	Compliance Zone	HFRA	Non-HFRA
	RCD = Regulation Clearance Distance	10'		RCD = Regulation Clearance Distance	4'	18"
	CCD = Compliance Clearance Distance (RCD x 1.5)	15'		CCD = Compliance Clearance Distance (RCD x 1.5)	6'	3'

Other

ASD – Audit Observations (Except FAC-003-4 R6)

VM Lead: Bill

Audit Name	Observation Title	VM Actions	Due Date
Temecula Audit	Observation # 1	If ISN badging process cannot be used to verify contractor training records, VM Contract Representatives will review these records upon receipt and follow up with the relevant contractors if the records are incomplete. Process needs to be developed and implemented if ISN process is not feasible	12/15/2021
	Observation # 2	VM will continue to partner with ESD in the development and deployment of the environmental coordination spreadsheet or other ESD-identified app as well as incorporate the ESD review, approval, and field coordination workflows into ARBORA. NOTE: VM does not have control over the development or timeline of tools created by the ESD Consultants but expects integration of these workflows into ARBORA in 4Q21.	12/15/2021
Safety Audit	Observation # 1	VM will work with Contractor Safety to develop a SSP Safety Observation Training, including how to use the COAs during safety observations and provide adequate comments in the Safety Observation application to increase the quality and value of the observation, with reference to COAs when relevant.	1/28/2022
	Observation # 3	VM will work with Contractor Safety to review each tree crew Contractors tailboard form for adequate space to list work activities and associated hazard mitigations.	1/28/2022
Field Audit	Observation # 1	Develop a roles and responsibilities document for SSPs	12/15/2021 Submitted to ASD on 12/2/21, pending acceptance
		Provide "Environmental Observation Training" training for VM SSPs/SPs	12/31/2021
		Update UVM-19, "Targeted Environmental Mitigations"	3/25/2022
		Provide revised annual environmental training to all tree trimming contractors' "trainers"	3/25/2022
Field Audit	Observation # 2	VM and ESD work with IT and internal VM resources to determine system enhancements needed for Survey 123 and Fulcrum, to provide the visibility to field crews regarding the status of conditional approvals and respective constructional constraint. (1) Determination and feasibility of system enhancements will be completed by 11/15/21 (2) Target system enhancement implementation contingent on IT system engineering support/availability. 12/31/21 (3) 12/31/21 date cannot be achieved due to IT constraints VM will request completion no later than 3/25/22. Enhance Survey 123 to include a mandatory drop down field to require tree species be documented. 12/31/21.	3/25/2022
Field Audit	Observation # 3	Inspection and Mitigation of aging P2s using monthly VM will evaluate how to implement a sustainable targeted inspection process for P2s that are older than 30 days VM will evaluate the threshold/resources/financial control needed to implement a sustainable process by 12/31/21 with resulting measures implemented by 3/25/22	3/25/2022
Field Audit	Observation # 4	Develop an SSP/SP roles and responsibilities document	12/15/2021 Submitted to ASD on 12/2/21, pending acceptance
		Develop a VM approved staffing model by	3/25/2022

Items in orange are due December 2021 / January 2022