

# VM Program Overview

November 9, 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				5614.4				1851.3			
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				
	August	September	October	YTD
T & D	99.27	99.02	99.09	99.21
Transmission	99.83	92.08	99.11	98.17
Distribution	99.23	99.30	99.09	99.26
RCD CONFORMANCE % – PRUNING CONTRACTORS				
T & D	99.22	98.91	99.12	99.14
Transmission	99.66	87.64	99.09	97.07
Distribution	99.20	99.31	99.12	99.23
RCD CONFORMANCE % – INSPECTION CONTRACTORS				
T & D	99.42	99.41	99.23	99.47
Transmission	99.90	98.87	99.17	99.52
Distribution	99.35	99.43	99.24	99.47

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

CCD CONFORMANCE % – OVERALL VM PROGRAM				
	August	September	October	YTD
T & D	96.72	96.90	95.39	96.27
Transmission	99.46	88.82	95.66	95.78
Distribution	96.50	97.23	95.37	96.30
CCD CONFORMANCE % – PRUNING CONTRACTORS				
T & D	97.68	98.13	97.64	96.85
Transmission	99.66	87.42	97.50	93.74
Distribution	97.59	98.51	97.64	96.99
CCD CONFORMANCE % – INSPECTION CONTRACTORS				
T & D	97.45	97.68	95.65	97.51
Transmission	99.90	96.98	94.21	98.91
Distribution	97.12	97.71	95.76	97.42

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

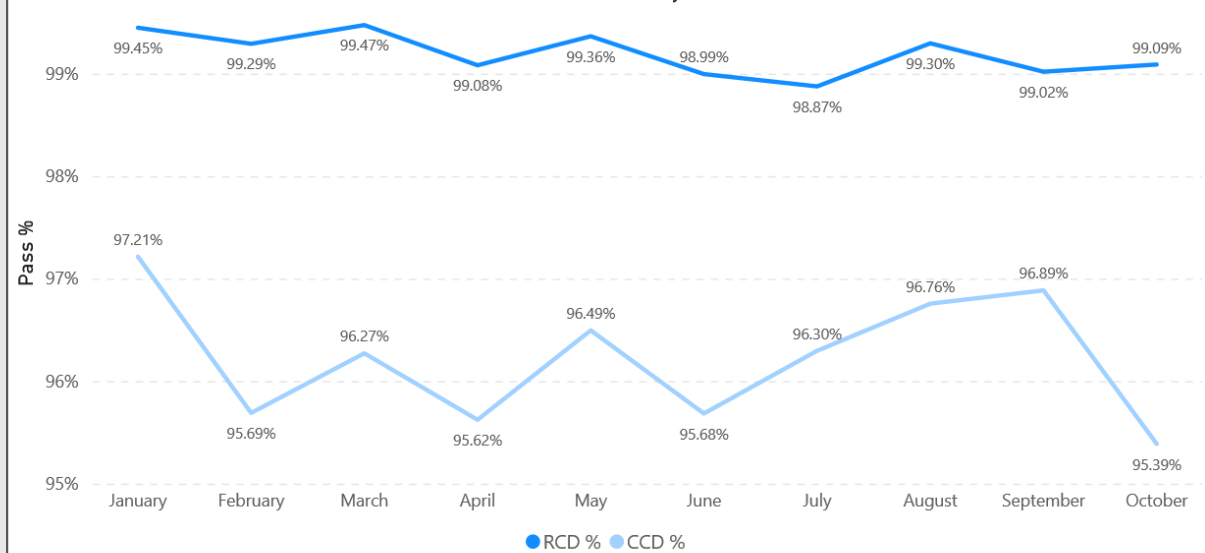
Pass % by District

District	Trees Inspected	RCD Pass %	CCD Pass %
Fullerton	2017	100.00%	99.31%
Ridgecrest	144	100.00%	100.00%
San Joaquin	5134	99.98%	99.69%
Wildomar	13877	99.98%	99.47%
Tehachapi	4460	99.91%	99.64%
29-Palms	2113	99.91%	99.01%
Big Creek	1047	99.90%	99.43%
Huntington Beach	1767	99.89%	99.21%
Bishop/Mammoth	6492	99.83%	99.28%
Whittier	6419	99.83%	98.46%
Ontario	9464	99.82%	98.72%
Menifee	19686	99.78%	98.71%
Palm Springs	2155	99.72%	98.79%
Santa Monica	4958	99.66%	98.06%
Santa Ana	1373	99.64%	98.91%
Kernville	9590	99.64%	96.68%
Covina	19021	99.55%	98.12%
Compton	2485	99.52%	98.55%
Ventura	20701	99.32%	96.56%
Antelope Valley	9439	99.26%	95.51%
Arrowhead	30223	99.02%	94.62%
Victorville	4898	99.00%	93.39%
Thousand Oaks	24165	98.98%	95.91%
South Bay	10883	98.95%	94.63%
Long Beach	3082	98.80%	92.76%
Monrovia	19287	98.64%	92.89%
Foothill	3866	98.42%	95.40%
Catalina	375	98.40%	95.73%
Redlands	7653	98.11%	92.57%
Valencia	9033	97.99%	92.76%

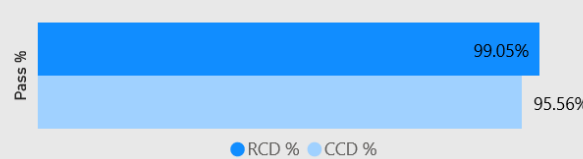
Distribution

Transmission

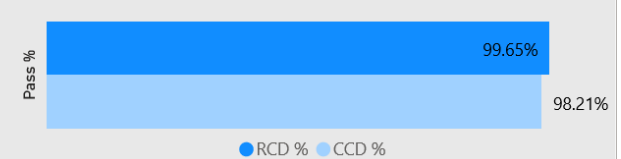
Clearance Pass % by Month



HFRA Clearance Pass %



Non HFRA Clearance Pass %



Total Trees Inspected

273969

Overall RCD Pass %

99.21%

Overall CCD Pass %

96.27%

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

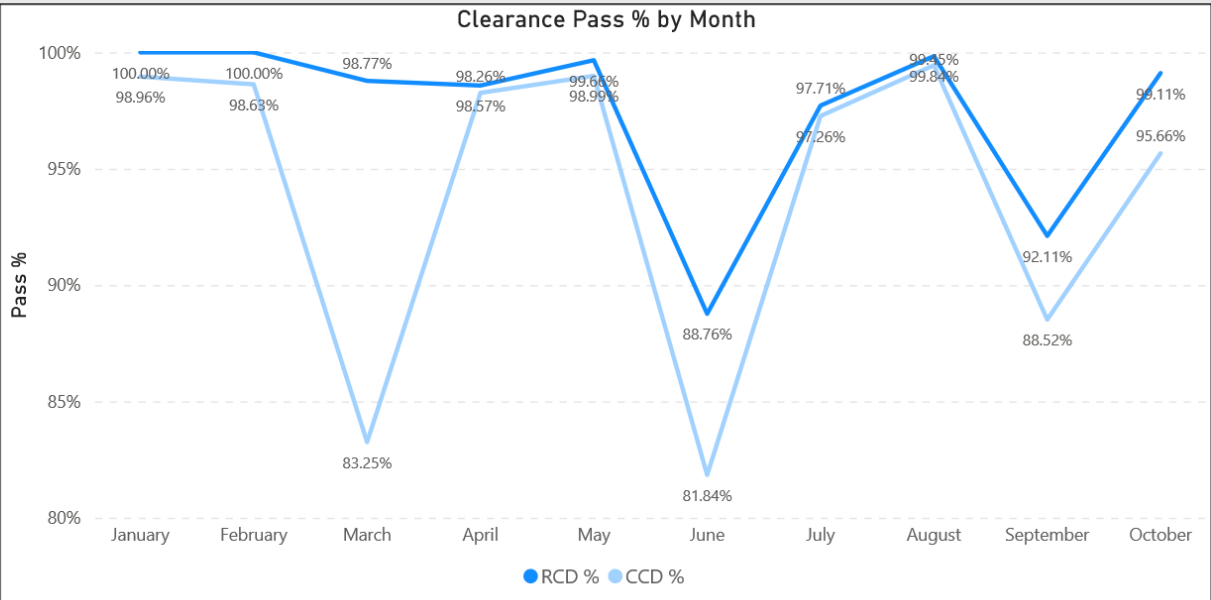
Pass % by District

District	Trees Inspected	RCD Pass %	CCD Pass %
Antelope Valley	2328	100.00%	99.36%
Covina	173	100.00%	100.00%
Menifee	134	100.00%	100.00%
San Joaquin	1627	100.00%	100.00%
Santa Barbara	618	100.00%	100.00%
Tehachapi	133	100.00%	100.00%
Ventura	240	100.00%	100.00%
Whittier	145	100.00%	100.00%
Ontario	1019	99.90%	99.80%
Valencia	678	99.71%	98.38%
Redlands	464	98.49%	90.52%
Monrovia	1285	97.98%	96.89%
South Bay	184	97.28%	91.30%
Saddleback	727	95.05%	74.55%
Thousand Oaks	711	87.90%	83.26%
Montebello	441	84.58%	79.82%

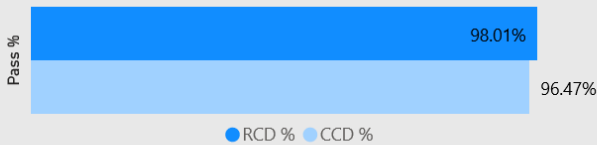
Distribution

Transmission

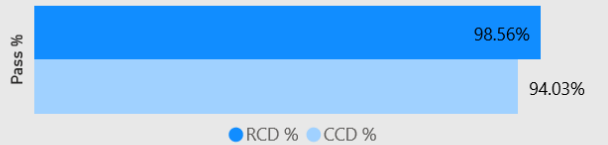
Clearance Pass % by Month



HFRA Clearance Pass %



Non HFRA Clearance Pass %



Total Trees Inspected

12895

Overall RCD Pass %

98.17%

Overall CCD Pass %

95.78%

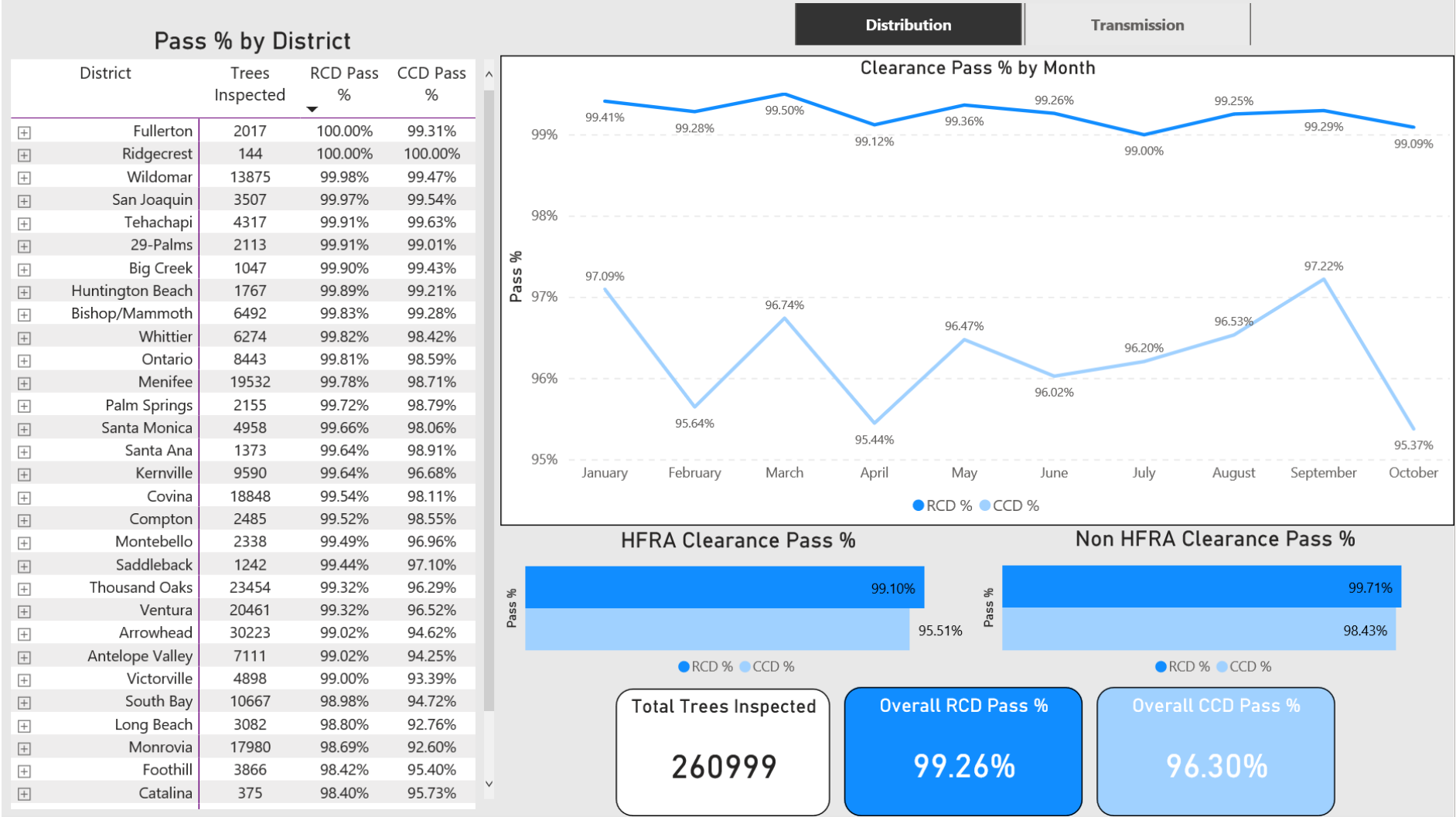
NOTE: RCD & CCD results indicate tree condition clearance at time of QC, not at time of trim

	Compliance Zone	HFRA
T	RCD = Regulation Clearance Distance	10'
	CCD = Compliance Clearance Distance (RCD x 1.5)	15'

AQL RCD = 100%  
AQL CCD = 95%

# YTD VM Performance – Distribution

VM Lead: Bill

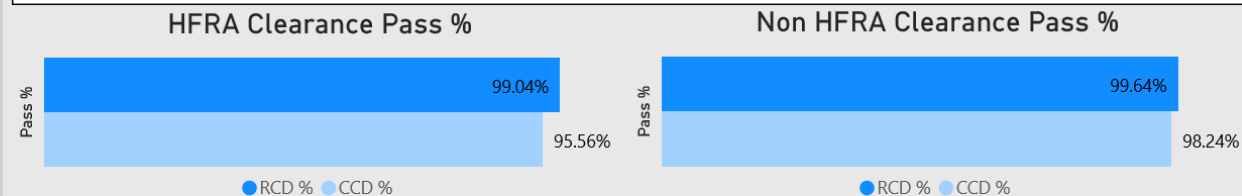
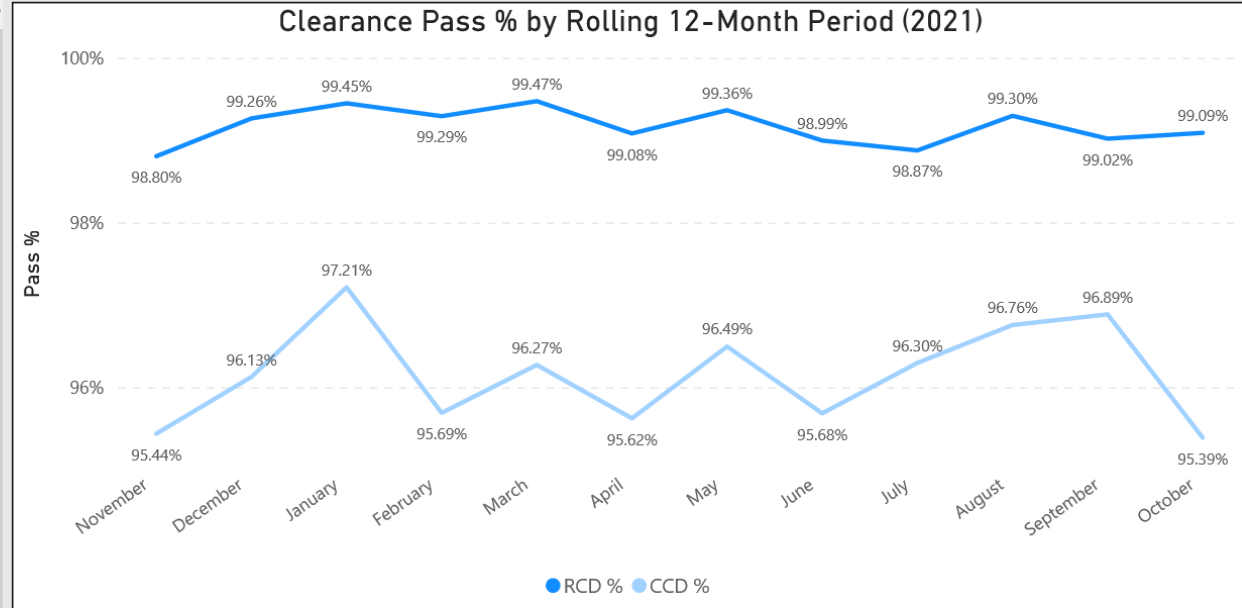


# VM Performance – T & D (Rolling 12 months)

VM Lead: Bill

## Pass % by District

District	Trees Inspected	RCD Pass %	CCD Pass %
Fullerton	2017	100.00%	99.31%
Ridgecrest	144	100.00%	100.00%
Wildomar	17511	99.97%	99.44%
Tehachapi	8652	99.91%	99.20%
Huntington Beach	1767	99.89%	99.21%
Whittier	7056	99.84%	98.55%
Bishop/Mammoth	6492	99.83%	99.28%
Ontario	9713	99.82%	98.75%
Big Creek	1433	99.79%	99.37%
29-Palms	2262	99.73%	98.01%
Palm Springs	3236	99.66%	98.33%
Santa Monica	4958	99.66%	98.06%
Covina	20363	99.56%	98.17%
Compton	2485	99.52%	98.55%
Santa Ana	1769	99.49%	97.68%
Kernville	12720	99.48%	96.47%
Antelope Valley	13948	99.28%	95.70%
Menifee	32971	99.28%	96.90%
Ventura	25593	99.25%	96.27%
Thousand Oaks	28308	99.08%	96.22%
Arrowhead	42564	99.07%	94.46%
Victorville	5004	99.02%	93.51%
Long Beach	3082	98.80%	92.76%
Redlands	12995	98.78%	94.86%
South Bay	13168	98.68%	94.35%
Monrovia	20260	98.65%	93.00%
San Joaquin	6701	98.51%	97.75%
Foothill	3866	98.42%	95.40%
Catalina	375	98.40%	95.73%
Valencia	12905	98.36%	93.65%
Saddleback	2086	97.94%	89.17%



Total Trees Inspected

344656

Overall RCD Pass %

99.17%

Overall CCD Pass %

96.17%

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
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	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)

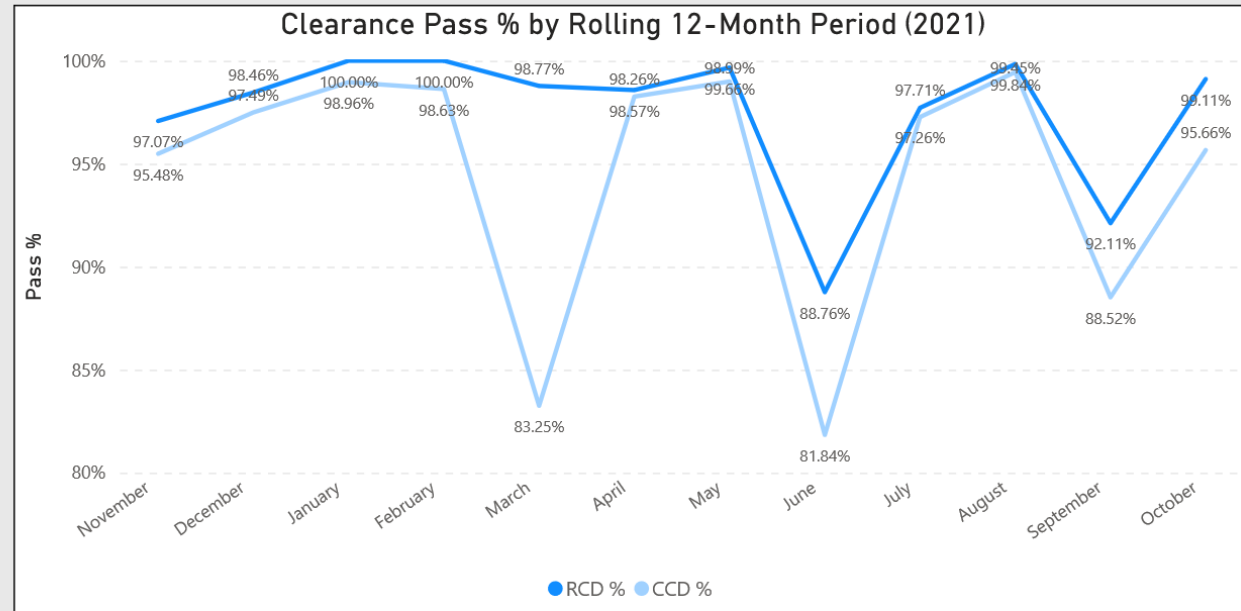
VM Lead: Bill

## Pass % by District

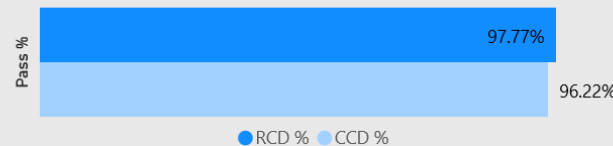
District	Trees Inspected	RCD Pass %	CCD Pass %
Antelope Valley	3148	100.00%	99.33%
Covina	440	100.00%	100.00%
Menifee	134	100.00%	100.00%
Santa Barbara	621	100.00%	100.00%
Tehachapi	133	100.00%	100.00%
Ventura	240	100.00%	100.00%
Whittier	145	100.00%	100.00%
Ontario	1256	99.92%	99.84%
Valencia	1427	99.51%	97.90%
Redlands	464	98.49%	90.52%
Monrovia	1489	98.19%	97.04%
South Bay	184	97.28%	91.30%
San Joaquin	2603	96.20%	94.93%
Saddleback	727	95.05%	74.55%
Thousand Oaks	931	90.76%	87.22%
Montebello	441	84.58%	79.82%

## Distribution

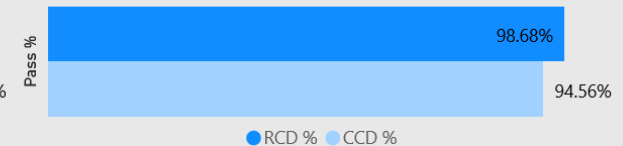
## Transmission



## HFRA Clearance Pass %



## Non HFRA Clearance Pass %



Total Trees Inspected

17196

Overall RCD Pass %

97.98%

Overall CCD Pass %

95.83%

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

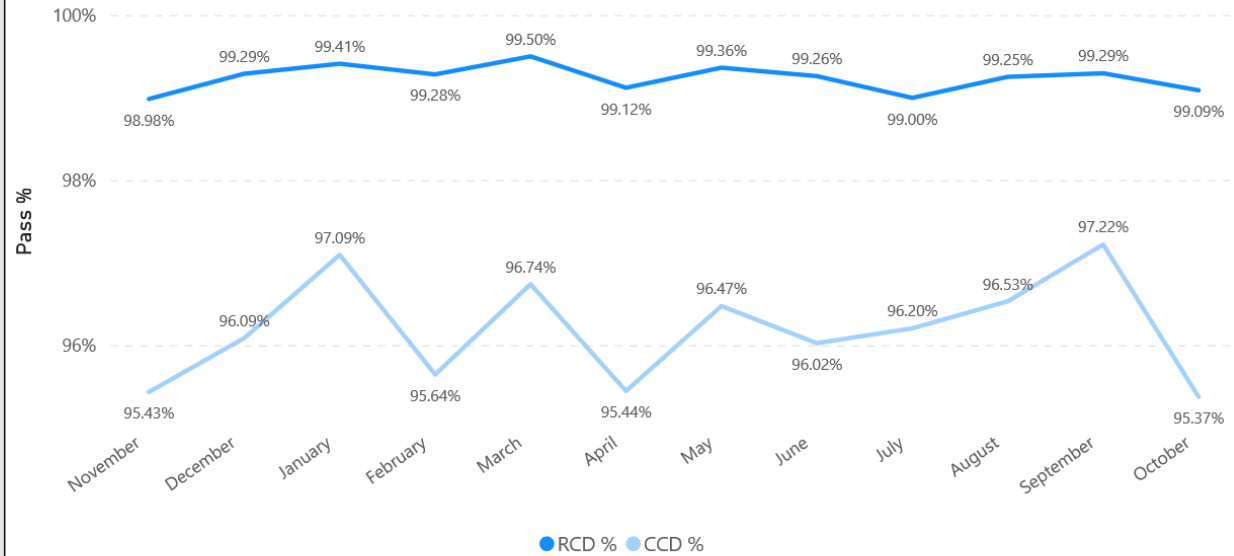
## Pass % by District

District	Trees Inspected	RCD Pass %	CCD Pass %
Fullerton	2017	100.00%	99.31%
Ridgecrest	144	100.00%	100.00%
San Joaquin	4098	99.98%	99.54%
Wildomar	17509	99.97%	99.44%
Tehachapi	8509	99.91%	99.19%
Huntington Beach	1767	99.89%	99.21%
Whittier	6911	99.84%	98.52%
Bishop/Mammoth	6492	99.83%	99.28%
Ontario	8443	99.81%	98.59%
Big Creek	1433	99.79%	99.37%
29-Palms	2262	99.73%	98.01%
Palm Springs	3236	99.66%	98.33%
Santa Monica	4958	99.66%	98.06%
Covina	19909	99.55%	98.13%
Compton	2485	99.52%	98.55%
Santa Ana	1769	99.49%	97.68%
Montebello	2338	99.49%	96.96%
Saddleback	1359	99.48%	96.98%
Kernville	12720	99.48%	96.47%
Thousand Oaks	27352	99.36%	96.53%
Menifee	32817	99.28%	96.89%
Ventura	25353	99.24%	96.24%
Arrowhead	42564	99.07%	94.46%
Antelope Valley	10800	99.07%	94.64%
Victorville	5004	99.02%	93.51%
Long Beach	3082	98.80%	92.76%
Redlands	12530	98.79%	95.02%
South Bay	12849	98.68%	94.37%
Monrovia	18741	98.68%	92.66%
Foothill	3866	98.42%	95.40%
Catalina	375	98.40%	95.73%

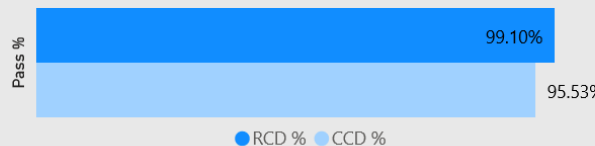
## Distribution

## Transmission

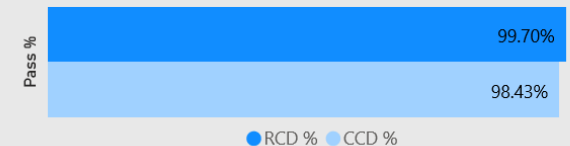
### Clearance Pass % by Rolling 12-Month Period (2021)



### HFRA Clearance Pass %



### Non HFRA Clearance Pass %



### Total Trees Inspected

327385

### Overall RCD Pass %

99.24%

### Overall CCD Pass %

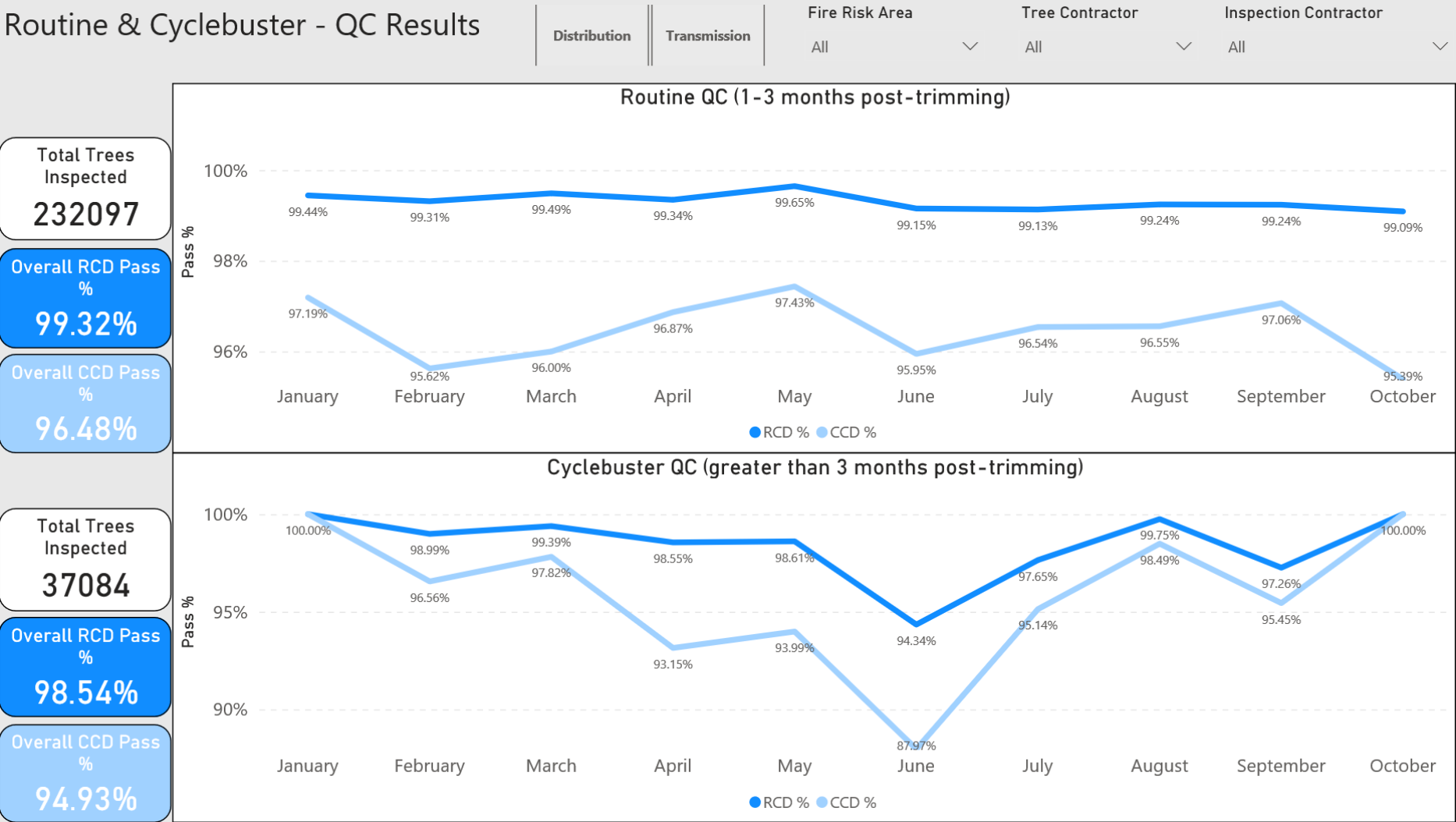
96.19%

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

Compliance Zone		HFRA	D	Compliance Zone		HFRA	Non-HFRA
T	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



Other

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

VM Lead: Bill

Audit Name	Observation Title	VM Actions	Due Date
CEMA Creek Fire	Observation # 1	VM management will work with Supply Management to explore opportunities to negotiate reduced rates for stand-by hours used in emergency operations for all its contractors. Contingent on successful negotiations, VM anticipates the negotiated rates can be used in 2022 and beyond as there is insufficient time to negotiate rates and make them effective for the remainder of 2021	11/12/2021
		Contingent on successful negotiation of stand-by rates, VM RPPM will explore opportunities to improve the documentation associated with “start and end” of stand-by rate periods to support more accurate invoice review and approval.	11/12/2021
	Observation # 2	To further enhance the invoice review and approval process, VM will explore additional opportunities for the review of T&E invoices and implement recommended changes once improvement opportunities are identified. Additionally, contingent on the successful negotiation of stand-by rates, VM will explore the best approach for performing accurate reviews of invoices related to stand-by rates and implement these processes as soon as practical and the stand-by rates become effective.	11/12/2021
Temecula Audit	Observation # 4	Evaluate potential enhanced oversight for the invoicing process for add-ons and scope changes. 1. Enhance the existing invoice review process for scope changes. 2. Develop an escalation process with VM Operations to address large discrepancies. 3. Review the invoiced quantity for accuracy (Remove 10% threshold)	11/19/2021
	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
		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
		Develop a VM approved staffing model by	3/25/2022

Items in orange are due November/December 2021