

VM Program Overview

January 12, 2022

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	9057	912	111.2	6125.0	6441	316	105.2	2020.0	2554	534	126.4

- 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				
	October	November	December	YTD
T & D	99.09	99.28	99.11	99.22
Transmission	99.11	99.91	100.00	98.37
Distribution	99.09	99.27	99.11	99.24
RCD CONFORMANCE % – PRUNING CONTRACTORS				
T & D	99.12	99.33	99.04	99.12
Transmission	99.09	99.88	100.00	97.51
Distribution	99.12	99.31	99.04	99.18
RCD CONFORMANCE % – INSPECTION CONTRACTORS				
T & D	99.23	99.47	99.37	99.49
Transmission	99.17	100.00	100.00	99.78
Distribution	99.24	99.45	99.37	99.47

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

CCD CONFORMANCE % – OVERALL VM PROGRAM				
	October	November	December	YTD
T & D	95.39	96.46	96.01	96.26
Transmission	95.66	99.91	100.00	96.25
Distribution	95.37	96.37	95.98	96.27
CCD CONFORMANCE % – PRUNING CONTRACTORS				
T & D	97.64	97.58	97.51	96.94
Transmission	97.50	99.88	100.00	94.65
Distribution	97.64	97.48	97.49	97.04
CCD CONFORMANCE % – INSPECTION CONTRACTORS				
T & D	95.65	96.96	98.19	98.17
Transmission	94.21	100.00	100.00	99.32
Distribution	95.76	96.88	98.18	98.12

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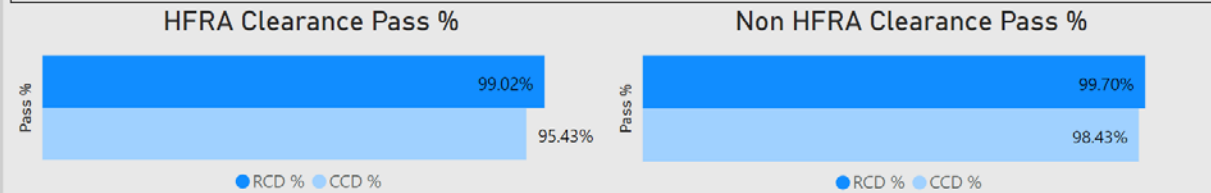
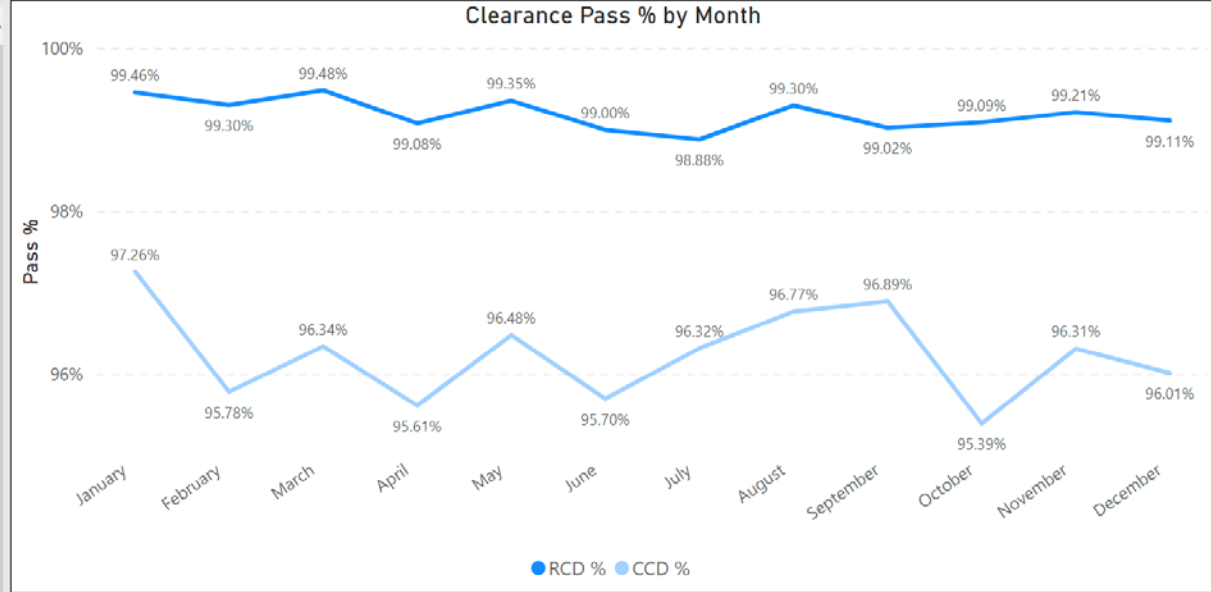
NOTE: RCD and CCD results indicate tree condition clearance at time of QC, not at time of trim

YTD VM Performance – Transmission & Distribution

VM Lead: Bill

Pass % by District

District	Trees Inspected	RCD Pass %	CCD Pass %
Wildomar	18745	99.96%	99.44%
Whittier	6402	99.83%	98.45%
Victorville	6906	98.70%	92.95%
Ventura	21755	99.36%	96.70%
Valencia	9872	98.16%	93.27%
Thousand Oaks	25992	98.96%	96.01%
Tehachapi	4462	99.91%	99.64%
South Bay	15978	98.80%	94.87%
Santa Monica	8724	99.71%	98.33%
Santa Barbara	6168	98.23%	93.13%
Santa Ana	4304	99.74%	99.07%
San Joaquin	6780	99.99%	99.68%
Saddleback	2767	98.37%	91.83%
Ridgecrest	144	100.00%	100.00%
Redlands	15023	98.38%	92.16%
Palm Springs	2339	99.74%	98.80%
Ontario	10645	99.84%	98.84%
Montebello	3062	97.39%	94.71%
Monrovia	21875	98.71%	93.43%
Menifee	33865	99.75%	98.35%
Long Beach	3567	98.93%	93.72%
Kernville	10288	99.65%	96.73%
Huntington Beach	1767	99.89%	99.21%
Fullerton	3368	99.94%	99.17%
Foothill	4170	98.54%	95.71%
Covina	21917	99.58%	98.25%
Compton	3104	99.55%	98.58%
Catalina	375	98.40%	95.73%
Bishop/Mammoth	6496	99.83%	99.28%
Big Creek	1663	99.94%	99.58%



Total Trees Inspected

350539

Overall RCD Pass %

99.20%

Overall CCD Pass %

96.26%

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

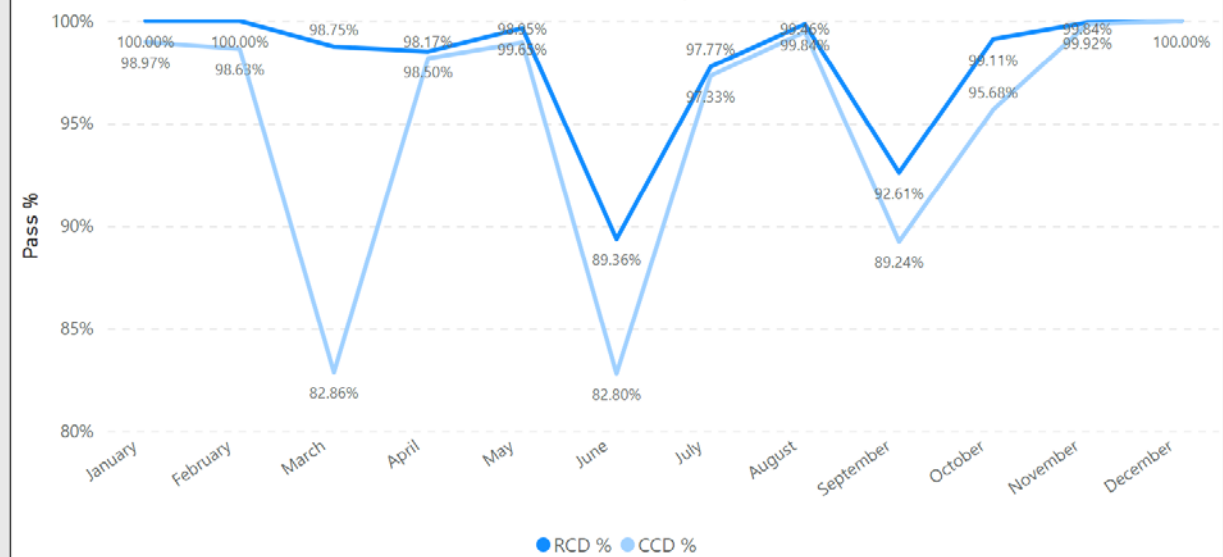
Pass % by District

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	262	98.09%	93.89%
Santa Barbara	618	100.00%	100.00%
San Joaquin	1628	100.00%	100.00%
Saddleback	1038	96.53%	82.18%
Redlands	363	98.07%	87.88%
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%	99.84%
Antelope Valley	2328	100.00%	99.36%

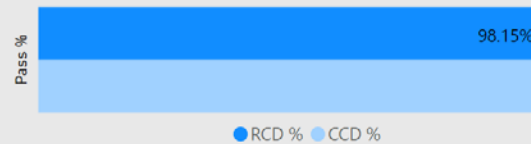
Distribution

Transmission

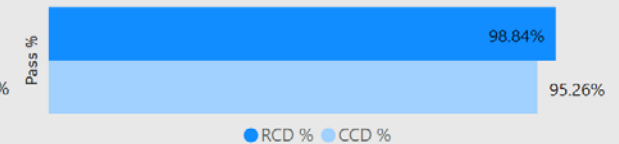
Clearance Pass % by Month



HFRA Clearance Pass %



Non HFRA Clearance Pass %



Total Trees Inspected

14514

Overall RCD Pass %

98.37%

Overall CCD Pass %

96.25%

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

AQL RCD = 100%
AQL CCD = 95%

YTD VM Performance – Distribution

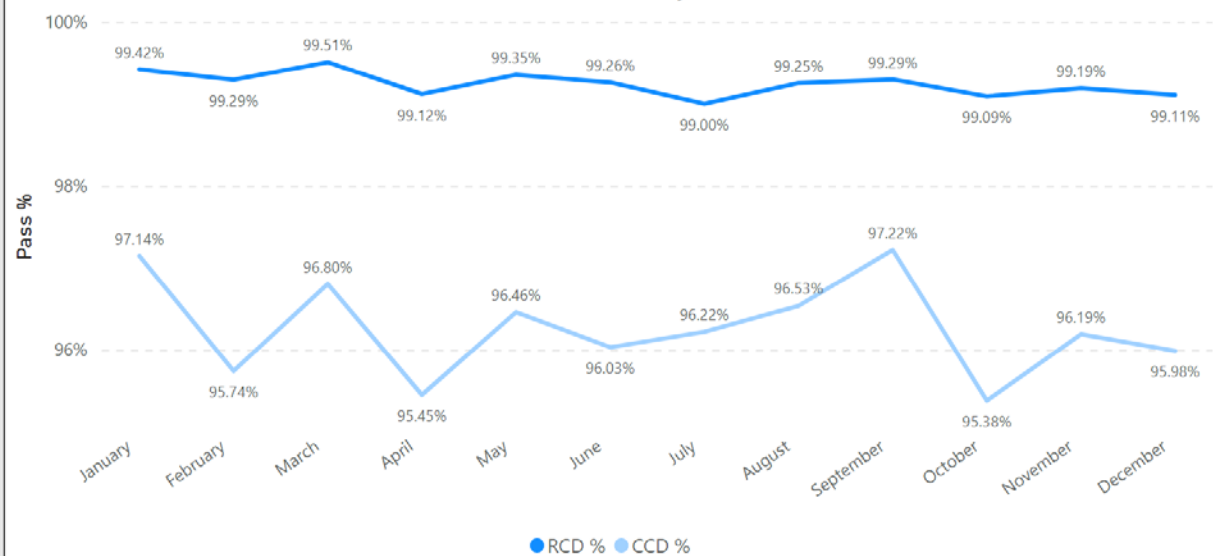
Pass % by District

District	Trees Inspected	RCD Pass %	CCD Pass %
Wildomar	18743	99.96%	99.44%
Whittier	6272	99.82%	98.42%
Victorville	6906	98.70%	92.95%
Ventura	21486	99.35%	96.65%
Valencia	9076	98.02%	92.81%
Thousand Oaks	25198	99.27%	96.36%
Tehachapi	4318	99.91%	99.63%
South Bay	15684	98.81%	94.91%
Santa Monica	8724	99.71%	98.33%
Santa Barbara	5550	98.04%	92.36%
Santa Ana	4304	99.74%	99.07%
San Joaquin	5152	99.98%	99.57%
Saddleback	1729	99.48%	97.63%
Ridgecrest	144	100.00%	100.00%
Redlands	14650	98.39%	92.26%
Palm Springs	2339	99.74%	98.80%
Ontario	9809	99.83%	98.75%
Montebello	2563	99.53%	97.15%
Monrovia	20545	98.75%	93.20%
Menifee	33708	99.75%	98.35%
Long Beach	3098	98.81%	92.80%
Kernville	10288	99.65%	96.73%
Huntington Beach	1767	99.89%	99.21%
Fullerton	3368	99.94%	99.17%
Foothill	4170	98.54%	95.71%
Covina	21744	99.57%	98.23%
Compton	3104	99.55%	98.58%
Catalina	375	98.40%	95.73%
Bishop/Mammoth	6496	99.83%	99.28%
Big Creek	1047	99.90%	99.43%

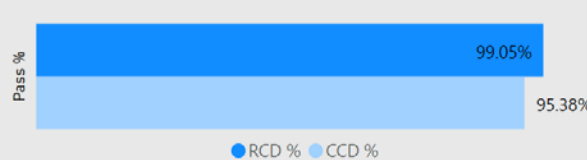
Distribution

Transmission

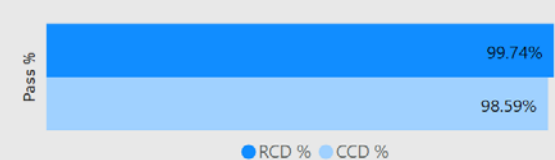
Clearance Pass % by Month



HFRA Clearance Pass %



Non HFRA Clearance Pass %



Total Trees Inspected

335949

Overall RCD Pass %

99.24%

Overall CCD Pass %

96.27%

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

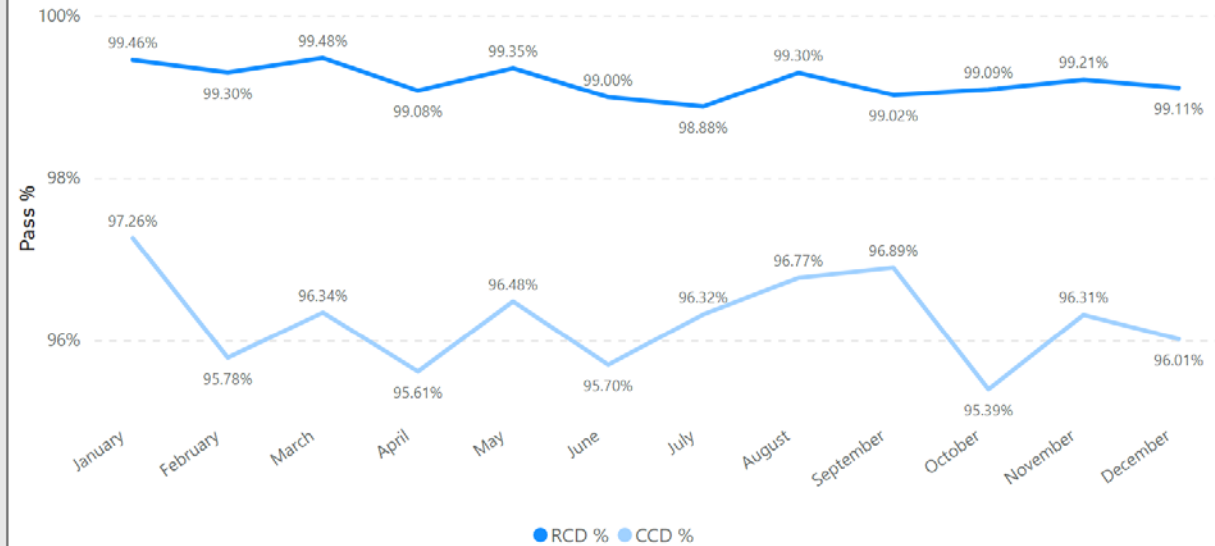
Pass % by District

District	Trees Inspected	RCD Pass %	CCD Pass %
Ridgecrest	144	100.00%	100.00%
San Joaquin	6780	99.99%	99.68%
Wildomar	18745	99.96%	99.44%
Fullerton	3368	99.94%	99.17%
Big Creek	1663	99.94%	99.58%
Tehachapi	4462	99.91%	99.64%
29-Palms	2114	99.91%	99.01%
Huntington Beach	1767	99.89%	99.21%
Ontario	10645	99.84%	98.84%
Bishop/Mammoth	6496	99.83%	99.28%
Whittier	6402	99.83%	98.45%
Menifee	33865	99.75%	98.35%
Santa Ana	4304	99.74%	99.07%
Palm Springs	2339	99.74%	98.80%
Santa Monica	8724	99.71%	98.33%
Kernville	10288	99.65%	96.73%
Covina	21917	99.58%	98.25%
Compton	3104	99.55%	98.58%
Ventura	21755	99.36%	96.70%
Thousand Oaks	25992	98.96%	96.01%
Long Beach	3567	98.93%	93.72%
Arrowhead	40979	98.89%	94.38%
South Bay	15978	98.80%	94.87%
Antelope Valley	13493	98.71%	93.73%
Monrovia	21875	98.71%	93.43%
Victorville	6906	98.70%	92.95%
Foothill	4170	98.54%	95.71%
Catalina	375	98.40%	95.73%
Redlands	15023	98.38%	92.16%
Saddleback	2767	98.37%	91.83%
Santa Barbara	6168	98.23%	93.13%

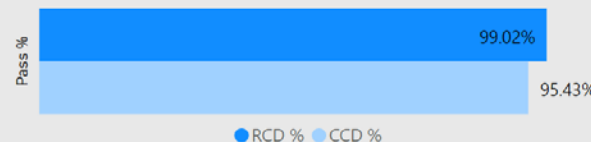
Distribution

Transmission

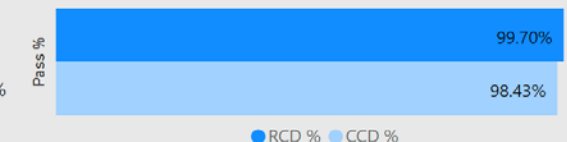
Clearance Pass % by Rolling 12-Month Period (2021)



HFRA Clearance Pass %



Non HFRA Clearance Pass %



Total Trees Inspected

350539

Overall RCD Pass %

99.20%

Overall CCD Pass %

96.26%

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 – Transmission (Rolling 12 months)

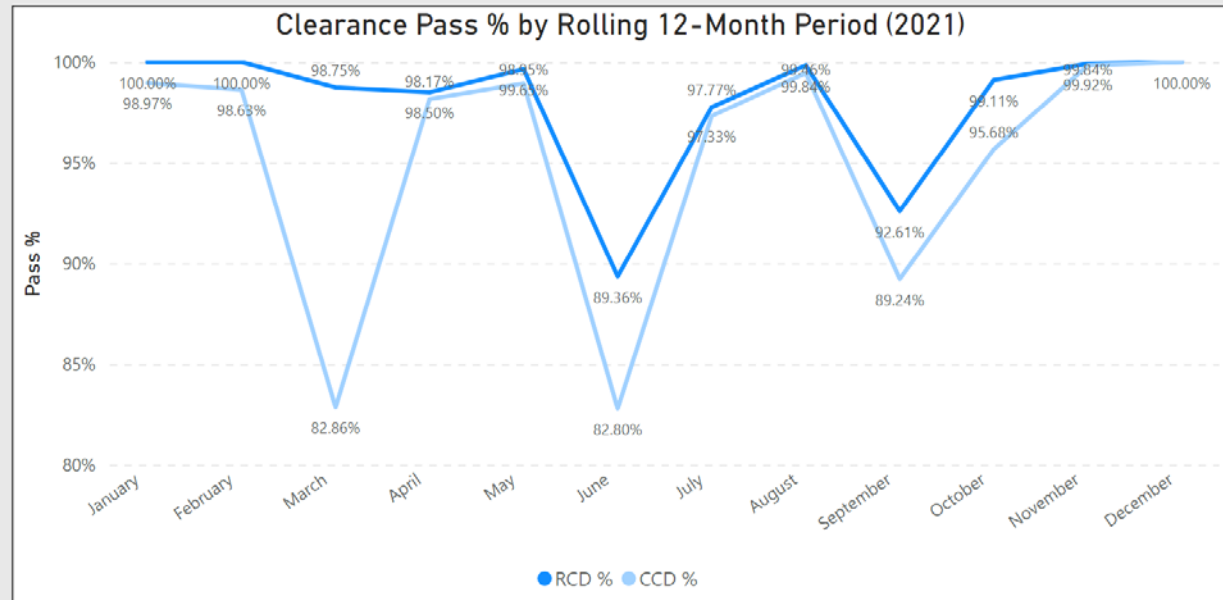
VM Lead: Bill

Pass % by District

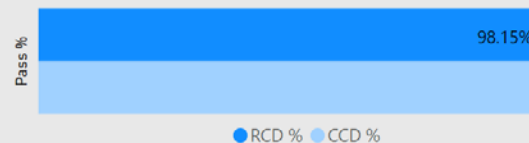
District	Trees Inspected	RCD Pass %	CCD Pass %
Antelope Valley	2328	100.00%	99.36%
Big Creek	616	100.00%	99.84%
Covina	173	100.00%	100.00%
Menifee	134	100.00%	100.00%
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San Joaquin	1628	100.00%	100.00%
Santa Barbara	618	100.00%	100.00%
Tehachapi	133	100.00%	100.00%
Ventura	241	100.00%	100.00%
Whittier	130	100.00%	100.00%
Long Beach	469	99.79%	99.79%
Valencia	699	99.71%	98.43%
South Bay	262	98.09%	93.89%
Redlands	363	98.07%	87.88%
Monrovia	1285	97.98%	96.89%
Saddleback	1038	96.53%	82.18%
Thousand Oaks	794	89.17%	85.01%
Montebello	499	86.37%	82.16%

Distribution

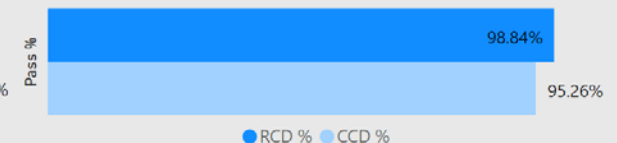
Transmission



HFRA Clearance Pass %



Non HFRA Clearance Pass %



Total Trees Inspected

14514

Overall RCD Pass %

98.37%

Overall CCD Pass %

96.25%

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
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VM Performance – Distribution (Rolling 12 months)

VM Lead: Bill

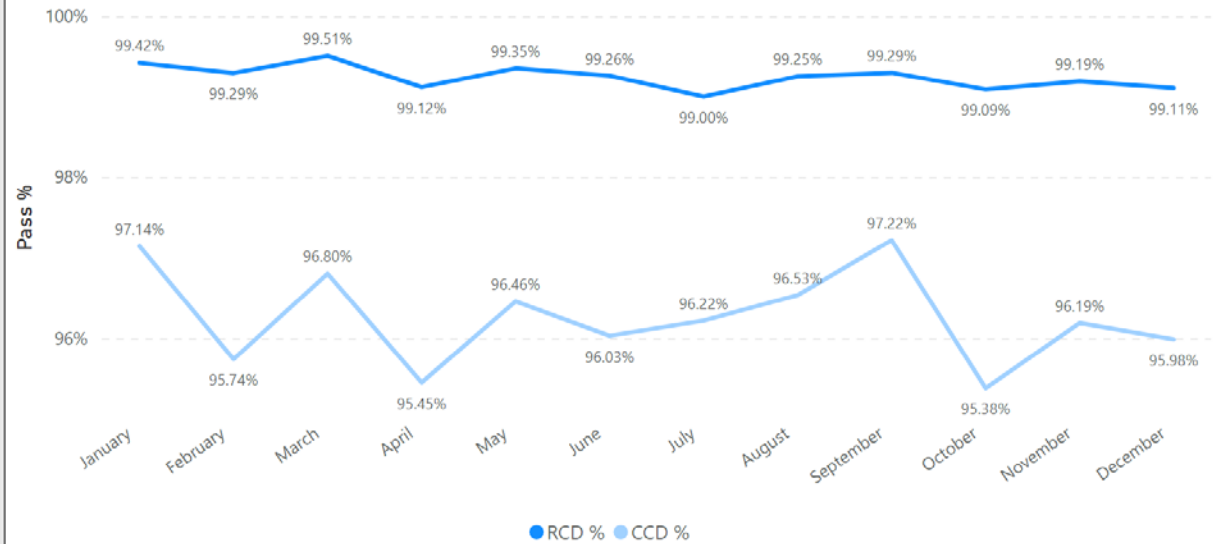
Pass % by District

District	Trees Inspected	RCD Pass %	CCD Pass %
Ridgecrest	144	100.00%	100.00%
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Tehachapi	4318	99.91%	99.63%
29-Palms	2114	99.91%	99.01%
Big Creek	1047	99.90%	99.43%
Huntington Beach	1767	99.89%	99.21%
Bishop/Mammoth	6496	99.83%	99.28%
Ontario	9809	99.83%	98.75%
Whittier	6272	99.82%	98.42%
Menifee	33708	99.75%	98.35%
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Palm Springs	2339	99.74%	98.80%
Santa Monica	8724	99.71%	98.33%
Kernville	10288	99.65%	96.73%
Covina	21744	99.57%	98.23%
Compton	3104	99.55%	98.58%
Montebello	2563	99.53%	97.15%
Saddleback	1729	99.48%	97.63%
Ventura	21486	99.35%	96.65%
Thousand Oaks	25198	99.27%	96.36%
Arrowhead	40979	98.89%	94.38%
South Bay	15684	98.81%	94.91%
Long Beach	3098	98.81%	92.80%
Monrovia	20545	98.75%	93.20%
Victorville	6906	98.70%	92.95%
Foothill	4170	98.54%	95.71%
Antelope Valley	11165	98.44%	92.56%
Catalina	375	98.40%	95.73%
Redlands	14650	98.39%	92.26%

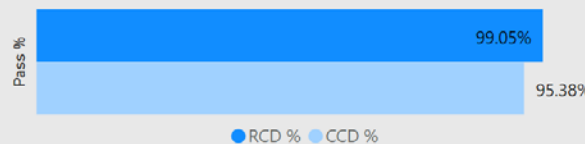
Distribution

Transmission

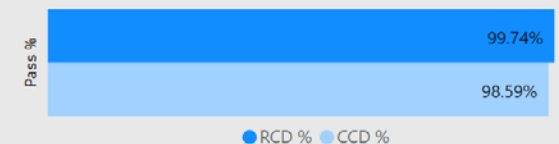
Clearance Pass % by Rolling 12-Month Period (2021)



HFRA Clearance Pass %



Non HFRA Clearance Pass %



Total Trees Inspected

335949

Overall RCD Pass %

99.24%

Overall CCD Pass %

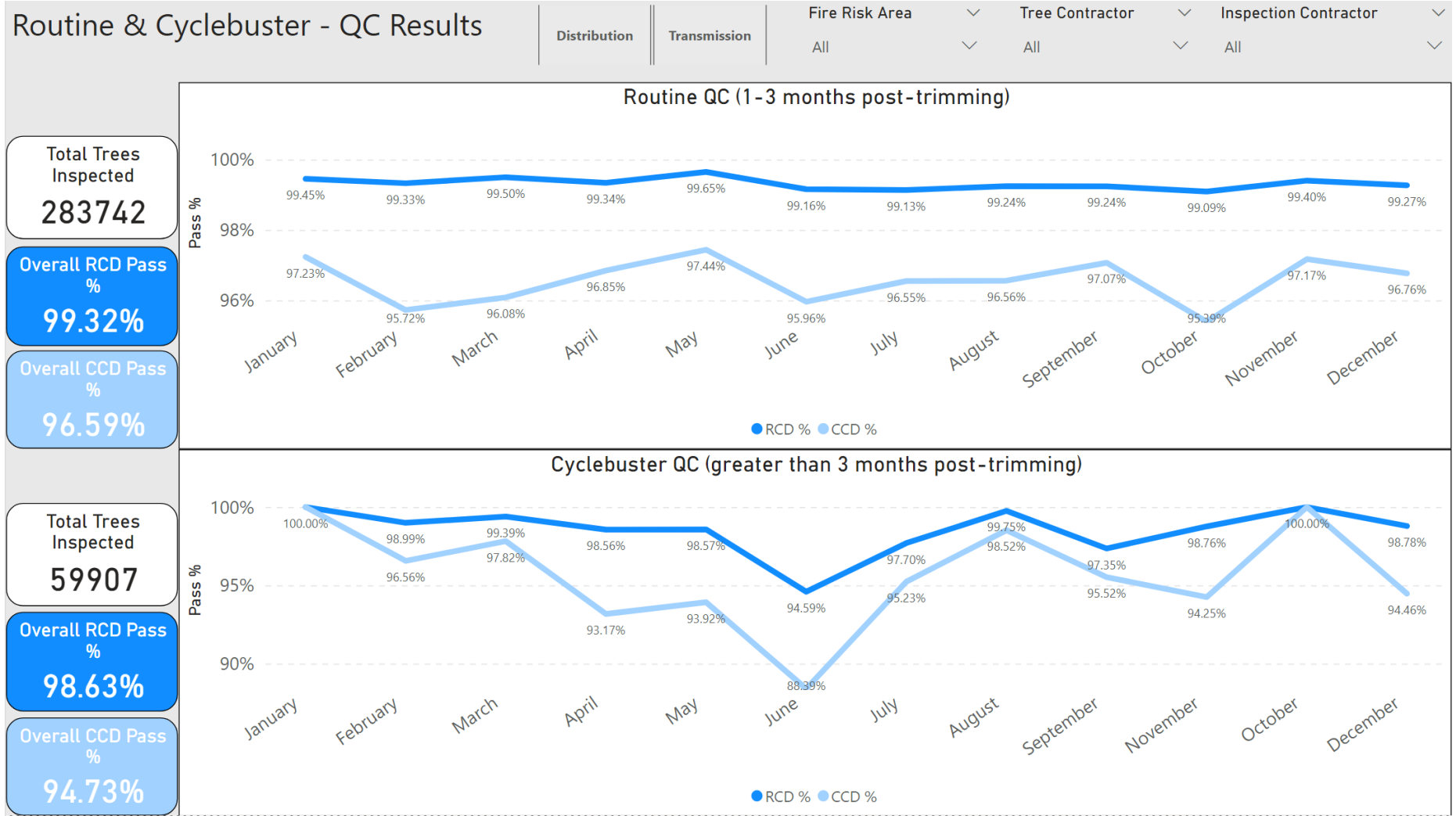
96.27%

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T	Compliance Zone	HFRA	D	Compliance Zone	HFRA	Non-HFRA
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VM Performance – T & D 80%/20% (Rolling 12 months)

VM Lead: Bill



Other

ASD – Audit Observations

VM Lead: Bill

Audit	Observation	Task / Deliverable	Due Date	Status
Y21-51003 R6 (ACP)	Obs. 1	Assess the feasibility of automating the Annual Work Plan and adding automation to Arbora.	1/28/2022	On Track
		Implement a formal plan for in-scope circuits performed two-months early or two-months late.	1/28/2022	Complete in UVM-10
		Develop and administer UVM Core Plans training.	1/28/2022	On Track
		Develop and issue the UVM-021 "VM Internal Controls" document.	1/28/2022	On Track
	Obs. 2	Identify system enhancements needed to automate data extraction for required reporting.	1/28/2022	On Track
	Obs. 3	Create a user-friendly BES circuit list that provides details on FAC-003 in-scope circuits with shared responsibilities.	3/25/2022	On Track
		Training to VM personnel on the interpretation of the new Bulk Electric System (BES) list.	3/25/2022	On Track
Field Audit	Obs. 1	Update UVM-19, "Targeted Environmental Mitigations".	3/25/2022	Not Started
		Provide annual environmental training to all tree trimming contractors.	3/25/2022	Not Started
	Obs. 3	Implement processes to continue targeted inspections of P2 RCD conditions that have exceeded an age threshold.	3/25/2022	On Track
	Obs. 4	Develop a staffing model that addresses complete SSP/SP resources and duty categories.	3/25/2022	On Track
Y21-51130 Safety Audit (ACP)	Obs. 1	Develop and issue SSP Safety Observation Training.	1/28/2022	On Track
	Obs. 3	Review each tree crew Contractors tailboard form for adequate space to list work activities, COAs, and hazard mitigations.	1/28/2022	On Track
Y21-51004 SQNF (ACP)	Obs. 1	Assess the feasibility of adding color codes to denote environmental requirements for work points in the Fulcrum app.	2/28/2022	On Track
		Trained pole brushing contractors (on Dec. 29) how to control parcel boundaries, ESA layers, and Government Land	2/25/2022	On Track
	Obs. 2	Trained contractors on Dec. 29 and developed a job aid to help contractors identify government land ownership. VM also implemented various measures to improve data accuracy.	1/28/2022	On Track
	Obs. 3	Issue memo to Contractors reinforcing adherence to program requirements regardless of schedule/work changes. Communicate future pole brushing job aid updates to Contractors.	1/28/2022	On Track
Mowbrays (ACP)	Obs. 2	Reinforce the CATTCH guidance to applicable stakeholders. Provide specific training on traffic control process.	2/25/2022	On Track
	Obs. 3	1) Reinforce the requirement for SSPs to accurately review invoices. 2) Reinforce the existing invoice validation process to applicable RPPM staff. 3) RPPM will review the potential billing errors identified by ASD. 4) RPPM will work with ASD to request that Mowbrays substantiate the T&E charges that were not supported by backup documentation.	2/25/2022	On Track

Items in orange are due January/February 2022