

VM Performance Review Meeting

Sept 7, 2021

Quality Control

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				4593.6				1514.7			
October	6787.50				5104.0				1683.0			
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				
	June	July	August	YTD
T & D	99.00	98.89	99.27	99.23
Transmission	89.11	97.73	99.83	98.61
Distribution	99.26	99.01	99.23	99.23
RCD CONFORMANCE % – PRUNING CONTRACTORS				
T & D	99.14	98.68	99.22	99.19
Transmission	87.36	97.52	99.66	97.90
Distribution	99.30	98.85	99.20	99.25
RCD CONFORMANCE % – INSPECTION CONTRACTORS				
T & D	99.00	99.37	99.42	99.49
Transmission	89.42	99.58	99.90	99.58
Distribution	99.29	99.36	99.35	99.48

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

CCD CONFORMANCE % – OVERALL VM PROGRAM				
	June	July	August	YTD
T & D	95.71	96.35	96.72	96.26
Transmission	82.40	97.28	99.46	96.47
Distribution	96.06	96.27	96.50	96.50
CCD CONFORMANCE % – PRUNING CONTRACTORS				
T & D	96.93	96.96	97.68	96.75
Transmission	84.48	97.52	99.66	94.45
Distribution	97.10	96.88	97.59	96.85
CCD CONFORMANCE % – INSPECTION CONTRACTORS				
T & D	95.74	97.23	97.45	97.58
Transmission	82.73	99.38	99.90	99.33
Distribution	96.13	97.13	97.12	97.47

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

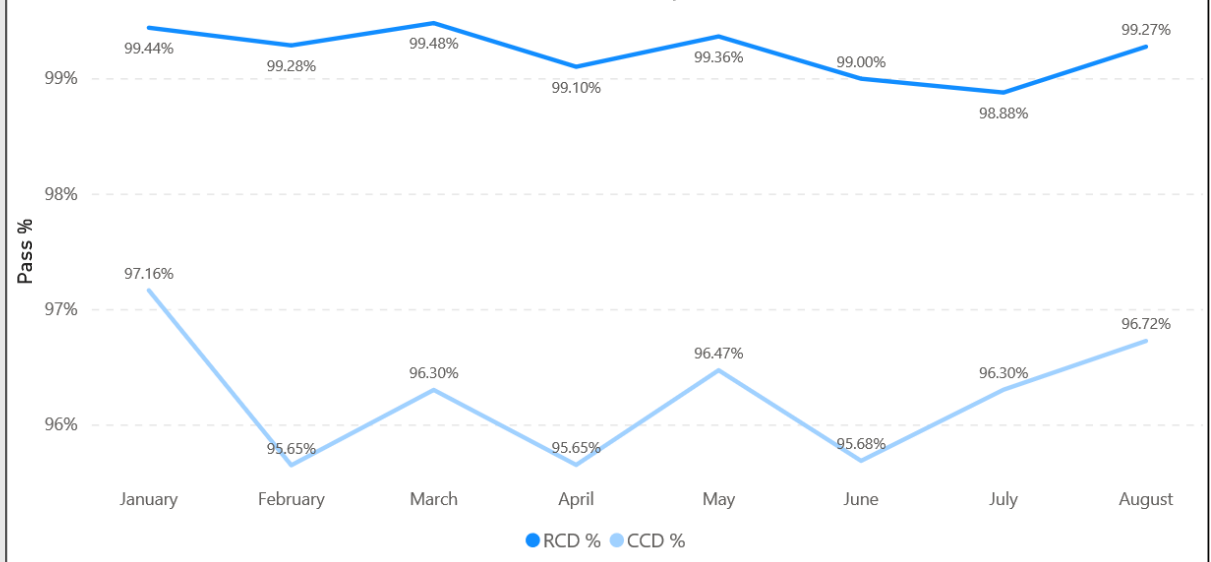
Pass % by District

District	Trees Inspected	RCD Pass %	CCD Pass %
Fullerton	2017	100.00%	99.31%
Ridgecrest	144	100.00%	100.00%
San Joaquin	4947	100.00%	99.76%
Wildomar	11768	99.97%	99.64%
Huntington Beach	1212	99.92%	99.26%
29-Palms	2112	99.91%	99.01%
Big Creek	1047	99.90%	99.43%
Palm Springs	778	99.87%	99.87%
Whittier	4639	99.85%	98.73%
Bishop/Mammoth	6396	99.83%	99.27%
Ontario	9216	99.82%	98.69%
Menifee	16751	99.78%	98.77%
Tehachapi	1321	99.77%	99.39%
Victorville	3118	99.71%	95.77%
Santa Ana	1373	99.64%	98.83%
Kernville	9502	99.63%	96.65%
Santa Monica	3089	99.61%	97.28%
Antelope Valley	9000	99.58%	97.04%
Covina	15562	99.51%	97.92%
Montebello	1972	99.49%	96.75%
Ventura	19033	99.30%	96.42%
Compton	1409	99.29%	98.15%
Arrowhead	27345	98.99%	94.32%
South Bay	10466	98.94%	94.62%
Thousand Oaks	18781	98.84%	95.86%
Long Beach	3081	98.80%	92.76%
Monrovia	15539	98.76%	92.75%
Catalina	375	98.40%	95.73%
Saddleback	2362	98.18%	90.64%
Valencia	5427	98.07%	93.03%

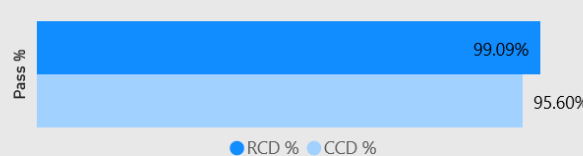
Distribution

Transmission

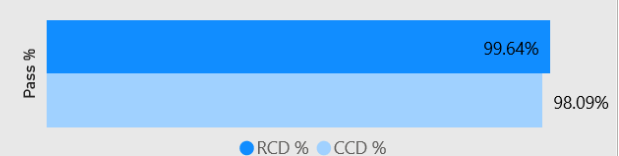
Clearance Pass % by Month



HFRA Clearance Pass %



Non HFRA Clearance Pass %



Total Trees Inspected

230659

Overall RCD Pass %

99.23%

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

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'	

YTD VM Performance – Transmission

• VM Lead: Bill

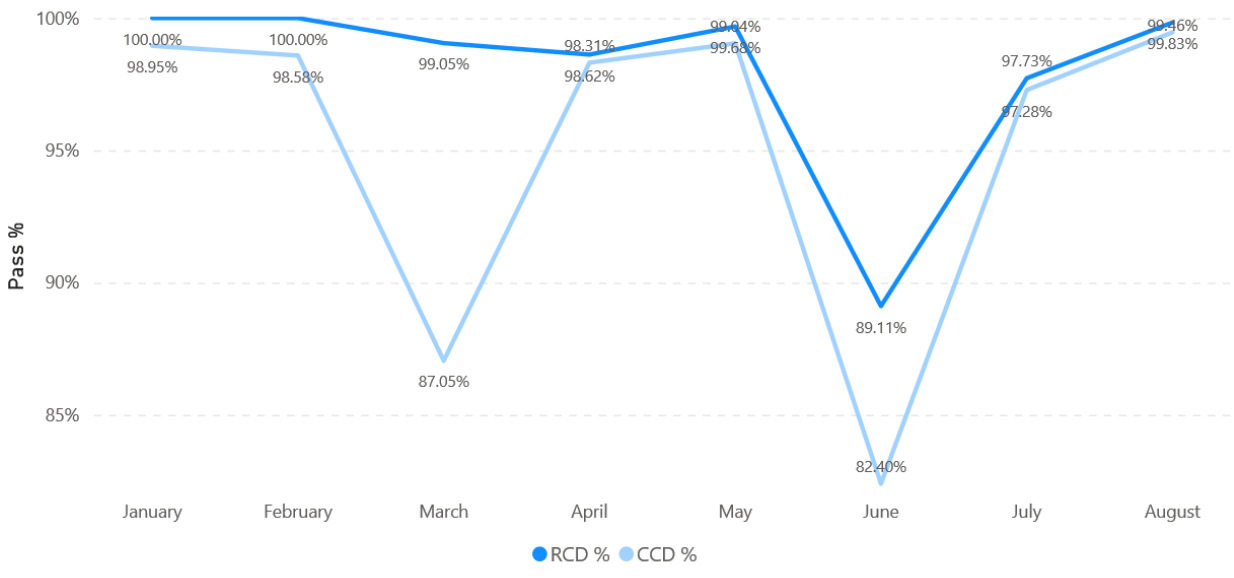
Pass % by District

District	Trees Inspected	RCD Pass %	CCD Pass %
Antelope Valley	2337	100.00%	99.36%
Menifee	134	100.00%	100.00%
San Joaquin	1628	100.00%	100.00%
Santa Barbara	765	100.00%	100.00%
Tehachapi	208	100.00%	100.00%
Ventura	124	100.00%	100.00%
Whittier	107	100.00%	100.00%
Ontario	896	99.89%	99.78%
Valencia	730	99.73%	98.49%
Monrovia	1324	98.04%	96.98%
South Bay	184	97.28%	91.30%
Saddleback	1126	96.80%	83.57%
Thousand Oaks	742	88.41%	83.96%

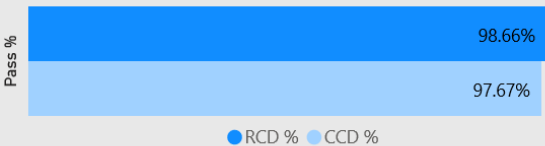
Distribution

Transmission

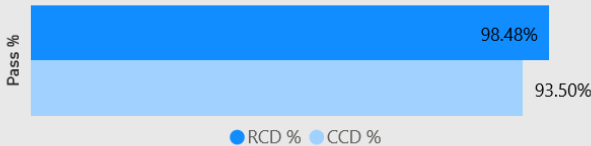
Clearance Pass % by Month



HFRA Clearance Pass %



Non HFRA Clearance Pass %



Total Trees Inspected

11367

Overall RCD Pass %

98.61%

Overall CCD Pass %

96.47%

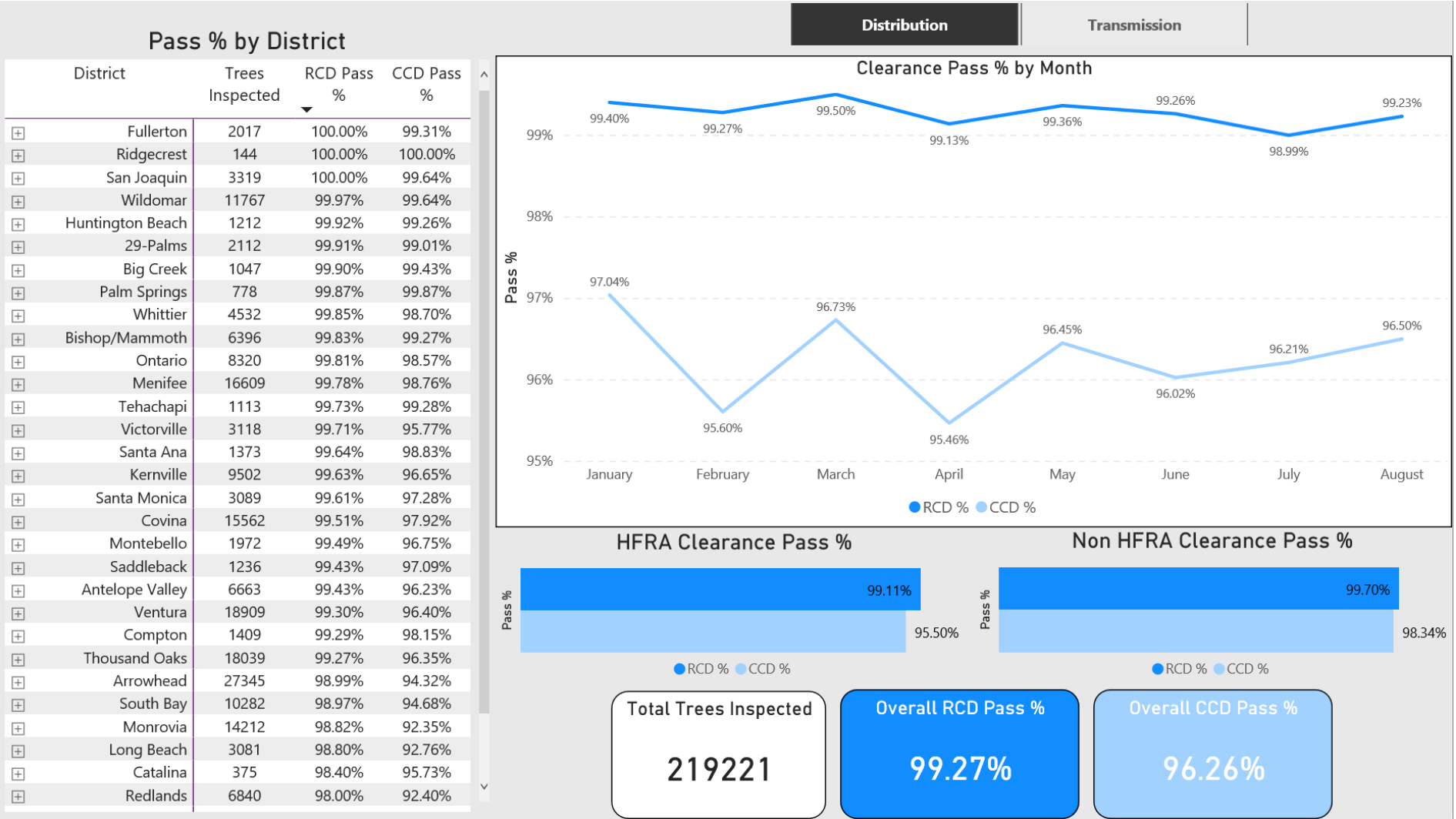
NOTE: RCD & CCD results indicate tree condition clearance at time of QC, not at time of trim

	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

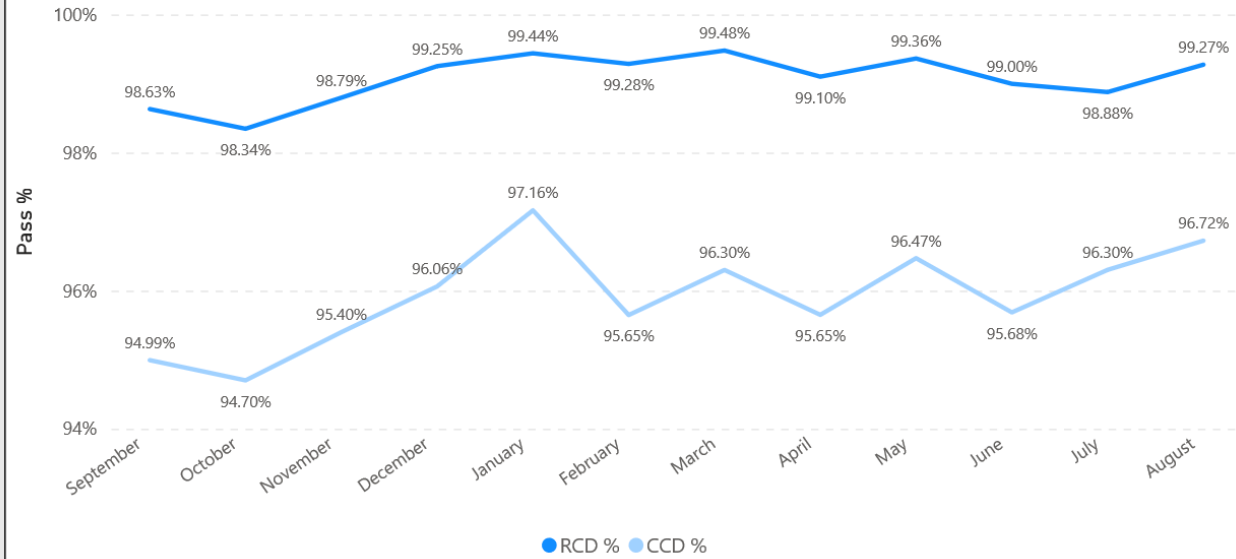
Pass % by District

District	Trees Inspected	RCD Pass %	CCD Pass %
Fullerton	2017	100.00%	99.31%
Ridgecrest	144	100.00%	100.00%
Wildomar	16184	99.96%	99.43%
Huntington Beach	1212	99.92%	99.26%
Ontario	11880	99.86%	98.87%
Bishop/Mammoth	6396	99.83%	99.27%
Big Creek	1433	99.79%	99.37%
Tehachapi	10457	99.79%	98.74%
Whittier	6026	99.77%	98.57%
29-Palms	3770	99.73%	97.48%
Palm Springs	1859	99.68%	98.44%
Kernville	15040	99.56%	96.90%
Covina	20188	99.55%	98.01%
Antelope Valley	13656	99.49%	96.72%
Montebello	2526	99.41%	96.71%
Santa Ana	2095	99.38%	97.52%
Ventura	25285	99.13%	96.04%
Santa Monica	4059	99.06%	95.98%
Menifee	36005	99.04%	95.81%
Thousand Oaks	25904	98.99%	96.36%
Arrowhead	45498	98.95%	93.72%
Redlands	14274	98.91%	95.33%
Victorville	5371	98.85%	94.17%
Monrovia	18017	98.72%	93.32%
Compton	2001	98.60%	97.25%
South Bay	14880	98.60%	94.19%
Long Beach	4887	98.53%	93.55%
Valencia	11579	98.52%	94.24%
Catalina	375	98.40%	95.73%
Saddleback	2477	98.26%	90.88%
Santa Barbara	7669	97.77%	92.03%

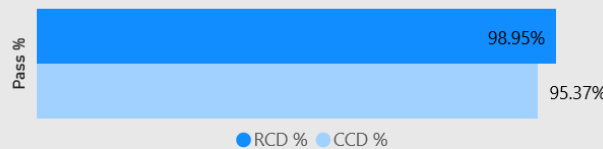
Distribution

Transmission

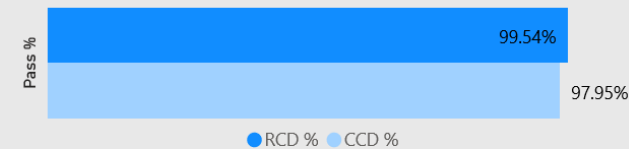
Clearance Pass % by Rolling 12-Month Period (2021)



HFRA Clearance Pass %



Non HFRA Clearance Pass %



Total Trees Inspected

355815

Overall RCD Pass %

99.08%

Overall CCD Pass %

95.94%

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

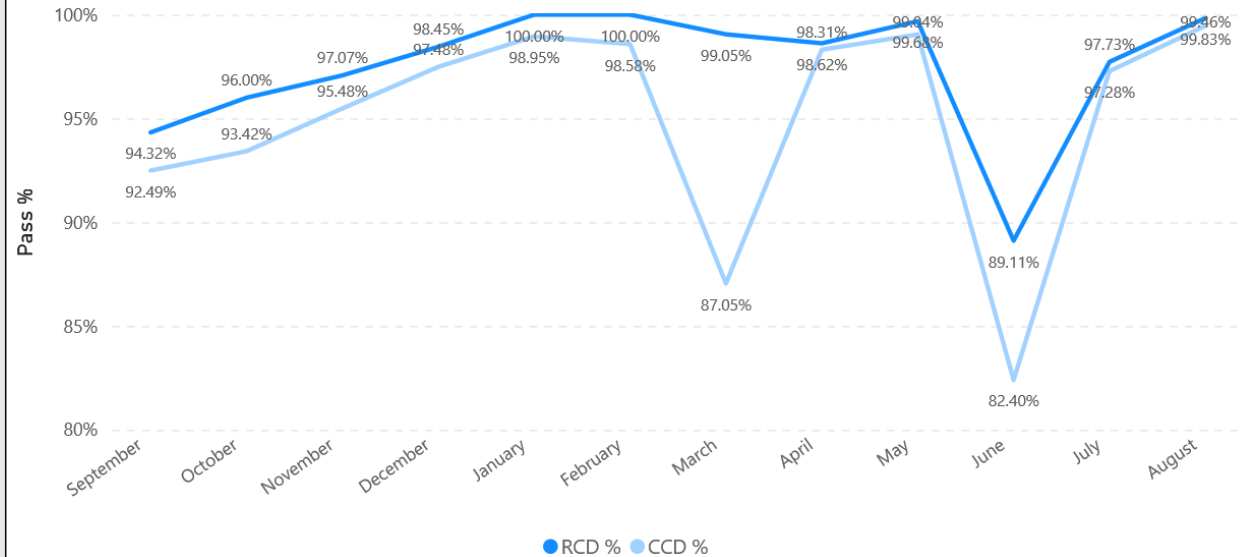
Pass % by District

District	Trees Inspected	RCD Pass %	CCD Pass %
Covina	263	100.00%	100.00%
Menifee	134	100.00%	100.00%
Tehachapi	208	100.00%	100.00%
Whittier	107	100.00%	100.00%
Ontario	1915	99.95%	99.90%
Antelope Valley	3249	99.94%	99.17%
Valencia	1798	99.17%	96.89%
Santa Barbara	1055	98.77%	97.82%
South Bay	402	98.76%	96.02%
Monrovia	3000	98.23%	97.57%
Saddleback	1126	96.80%	83.57%
Thousand Oaks	1785	95.18%	93.28%
San Joaquin	3329	91.80%	88.47%
Ventura	338	91.12%	87.28%

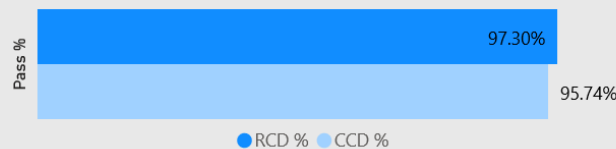
Distribution

Transmission

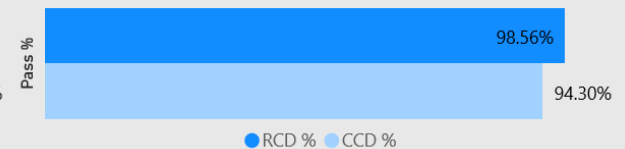
Clearance Pass % by Rolling 12-Month Period (2021)



HFRA Clearance Pass %



Non HFRA Clearance Pass %



Total Trees Inspected

21351

Overall RCD Pass %

97.53%

Overall CCD Pass %

95.48%

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 – Distribution (Rolling 12 months)

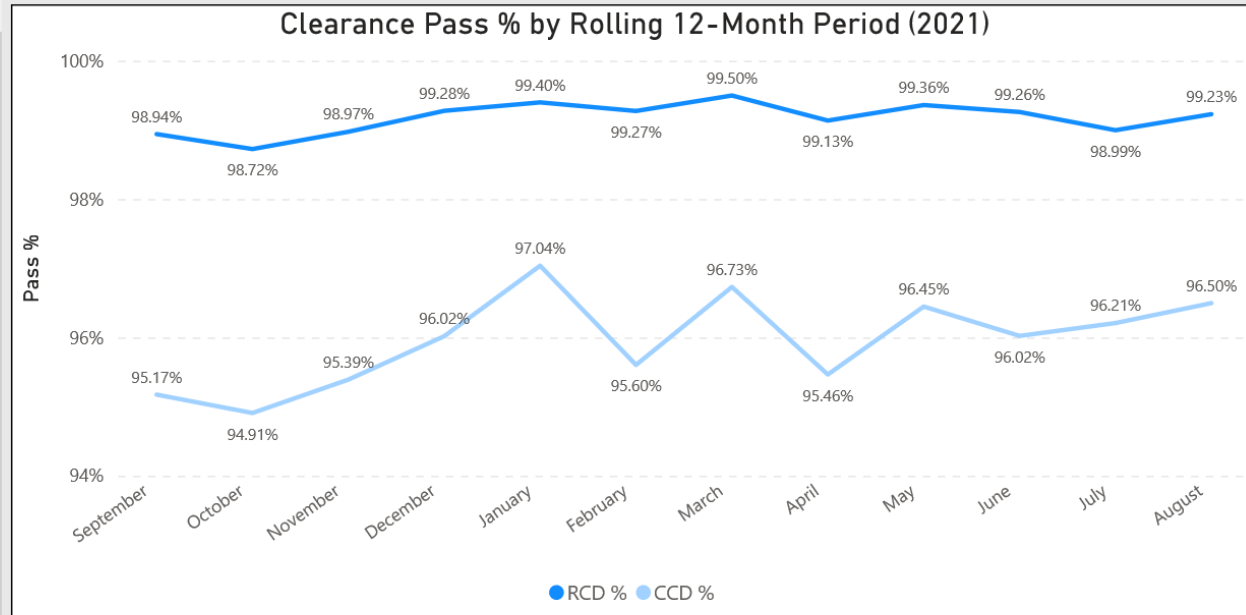
• VM Lead: Bill

Pass % by District

Distribution

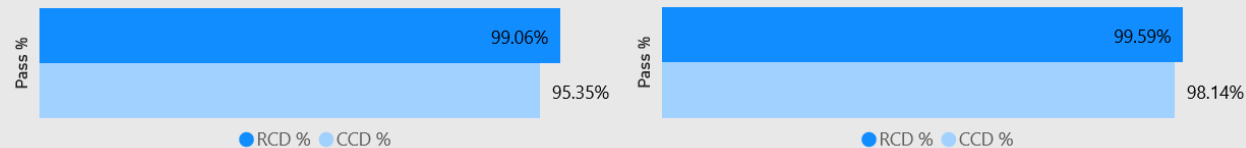
Transmission

District	Trees Inspected	RCD Pass %	CCD Pass %
Fullerton	2017	100.00%	99.31%
Ridgecrest	144	100.00%	100.00%
Wildomar	16183	99.96%	99.43%
San Joaquin	6112	99.93%	99.54%
Huntington Beach	1212	99.92%	99.26%
Ontario	9954	99.84%	98.67%
Bishop/Mammoth	6396	99.83%	99.27%
Big Creek	1433	99.79%	99.37%
Tehachapi	10249	99.79%	98.71%
Whittier	5919	99.76%	98.55%
29-Palms	3770	99.73%	97.48%
Palm Springs	1859	99.68%	98.44%
Kernville	15040	99.56%	96.90%
Covina	19925	99.54%	97.98%
Saddleback	1351	99.48%	96.97%
Montebello	2526	99.41%	96.71%
Santa Ana	2095	99.38%	97.52%
Antelope Valley	10401	99.35%	95.95%
Thousand Oaks	24086	99.27%	96.58%
Ventura	24947	99.24%	96.16%
Santa Monica	4059	99.06%	95.98%
Menifee	35863	99.03%	95.80%
Arrowhead	45498	98.95%	93.72%
Redlands	14273	98.91%	95.33%
Victorville	5371	98.85%	94.17%
Monrovia	14963	98.81%	92.44%
Compton	2001	98.60%	97.25%
South Bay	14395	98.58%	94.10%
Long Beach	4887	98.53%	93.55%
Catalina	375	98.40%	95.73%
Valencia	9739	98.40%	93.73%



HFRA Clearance Pass %

Non HFRA Clearance Pass %



Total Trees Inspected

334393

Overall RCD Pass %

99.18%

Overall CCD Pass %

95.97%

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

Routine & Cyclebuster - QC Results

Distribution

Transmission

Fire Risk Area
All

Tree Contractor
All

Inspection Contractor
All

Total Trees Inspected

192408

Overall RCD Pass %

99.34%

Overall CCD Pass %

96.51%

Total Trees Inspected

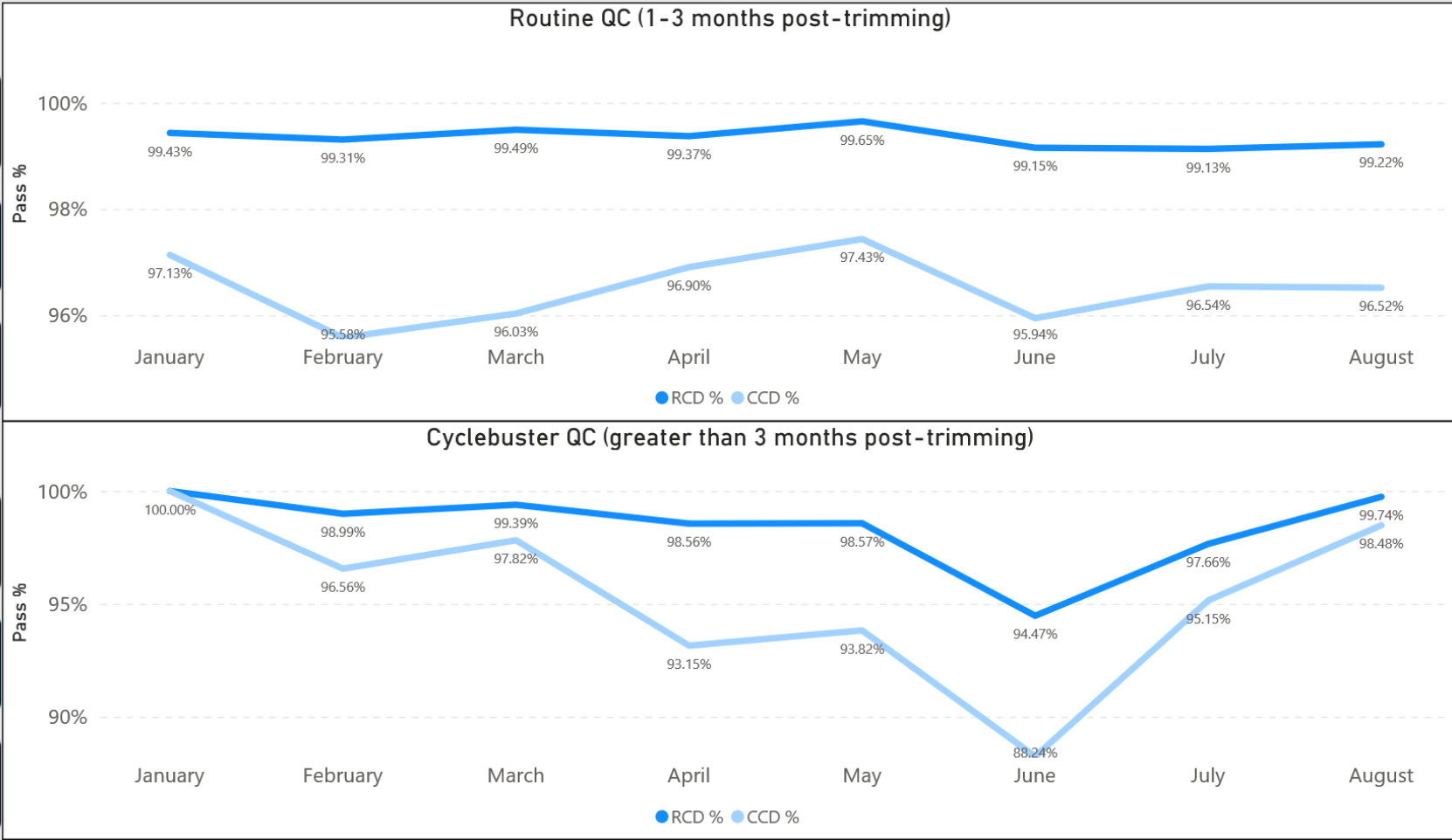
34307

Overall RCD Pass %

98.62%

Overall CCD Pass %

94.85%



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

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

Other

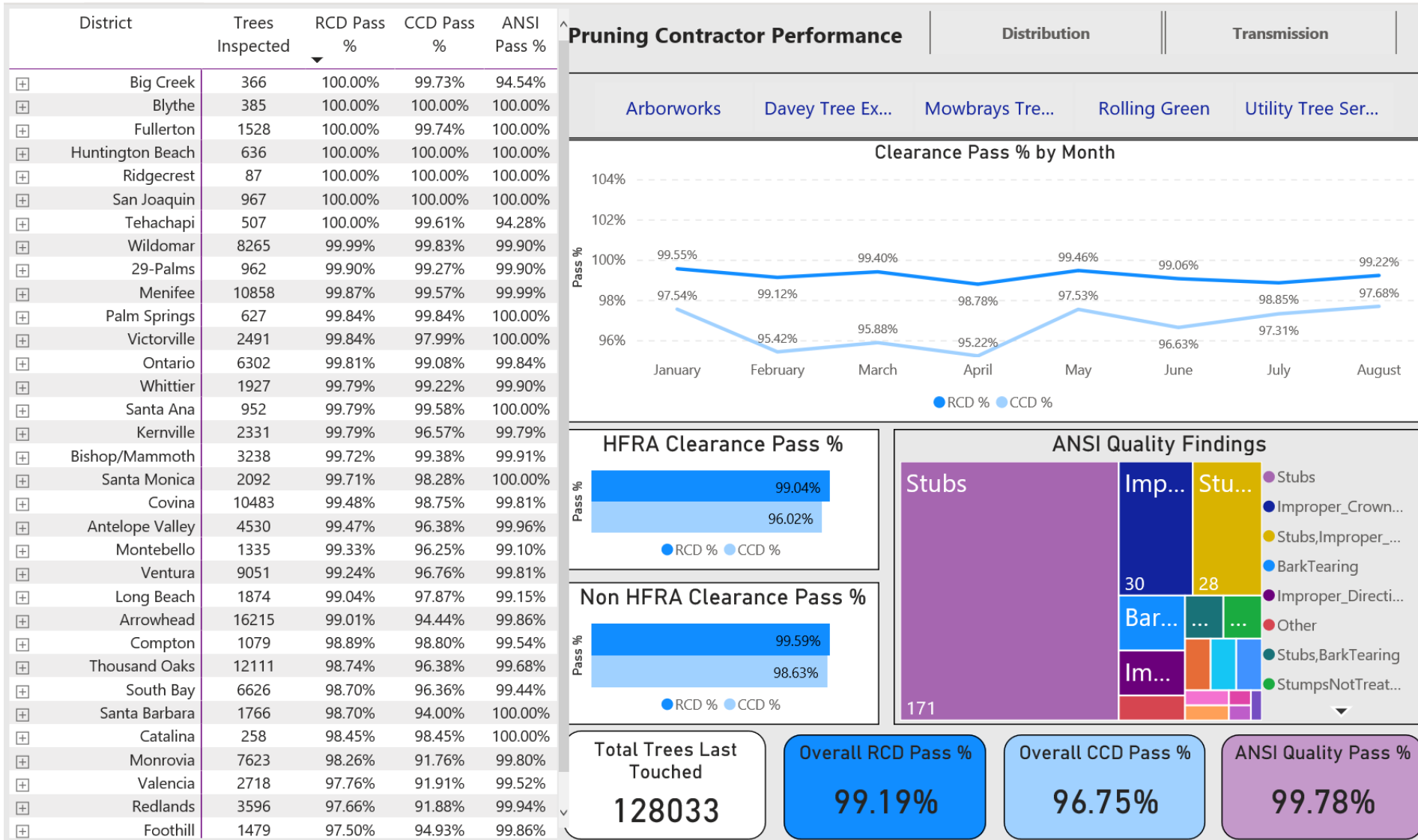
ASD – Audit Observations

• VM Lead: Bill

Audit	VM Actions	Due Date
TEM-1	Finalize Vegetation Management Assessment flowchart	7/30/21
TEM-1	VM will evaluate add-on and scope change data to identify trends	7/30/21
TEM-2	Multiple enhancements to Survey123/Collector have been identified by ESD and prioritized by IT to support increased visibility to VM scopes of work and to facilitate additional data collection in the field. VM will provide a list of enhancements that will be incorporated into S123/Collector with milestones, or those items deferred to ARBORA	7/30/21
TEM-2	Request to add a property line layer in S123; this layer is currently available in Fulcrum and ARBORA. As of April 29, 2021, the ESA layer is defaulting to on; however, functionality is intermittent. IT is exploring bug fixes and expects resolution by July 30, 2021.	7/30/21
TEM-3	Revise UVM -09 “inspection” to provide additional direction/instructions to inspection personnel (PIs/Notification Consultants/Customer Coordinators)	7/30/21
CEM-2	Perform a review of the discrepant invoices identified in the audit	8/27/21
TEM-1	Look for potential probable causes in trend data from add-on/scope changes	8/31/21
TEM-3	Provide training on UVM-09 to all UVM employees and contractors	9/15/21
TEM-4	Evaluate potential enhanced oversight for the invoicing process for add-ons and scope changes	9/24/21
TEM-1	Evaluate the ongoing need to engage ESD prior to all add-ons and scope changes. Additional training will be provided to relevant personnel once the threshold for review and approvals has been determined	10/15/21
TEM-1	Determine additional process changes and training needed based on the results of the add-on/scope change trend evaluation and probable causes	10/15/21
TEM-3	Evaluate process changes needed to address oversight and/or effective review process including the need for additional resources if determined so by Observation 1	10/15/21
TEM-3	Explore/evaluate the best option and review threshold for additional oversight of the add-on and scope change process and will work with Supply Management to strengthen contract language	10/29/21
CEM-1	VM management will work with Supply Management to negotiate reduced rates for stand-by hours used in emergency operations for all its contractors	11/12/21
CEM-1	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	11/12/21
CEM-2	VM will explore additional opportunities for the review of T&E invoices and implement recommended changes. 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	11/12/21
TEM-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	12/15/21
TEM-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	12/15/21

VM is currently responding to Observations from two ASD audits

Pruning Contractor – Overall Performance (T&D)



Pruning Contractor – Overall Performance (Transmission)

District	Trees Inspected	RCD Pass %	CCD Pass %	ANSI Pass %
Antelope Valley	2090	100.00%	99.47%	100.00%
Covina	52	100.00%	100.00%	100.00%
Menifee	63	100.00%	100.00%	100.00%
Redlands	63	100.00%	96.83%	98.41%
San Joaquin	38	100.00%	100.00%	100.00%
Santa Ana	57	100.00%	100.00%	100.00%
Santa Barbara	234	100.00%	100.00%	100.00%
Santa Monica	49	100.00%	100.00%	100.00%
Tehachapi	32	100.00%	100.00%	93.75%
Ventura	41	100.00%	100.00%	100.00%
Victorville	21	100.00%	85.71%	100.00%
Whittier	105	100.00%	100.00%	99.05%
Wildomar	6	100.00%	100.00%	100.00%
Ontario	512	99.80%	99.61%	100.00%
Valencia	379	99.47%	97.10%	98.94%
South Bay	73	95.89%	95.89%	100.00%
Saddleback	797	95.61%	77.04%	100.00%
Monrovia	331	93.05%	92.15%	99.70%
Thousand Oaks	476	89.50%	87.39%	100.00%

Pruning Contractor Performance

Distribution

Transmission

Arborworks

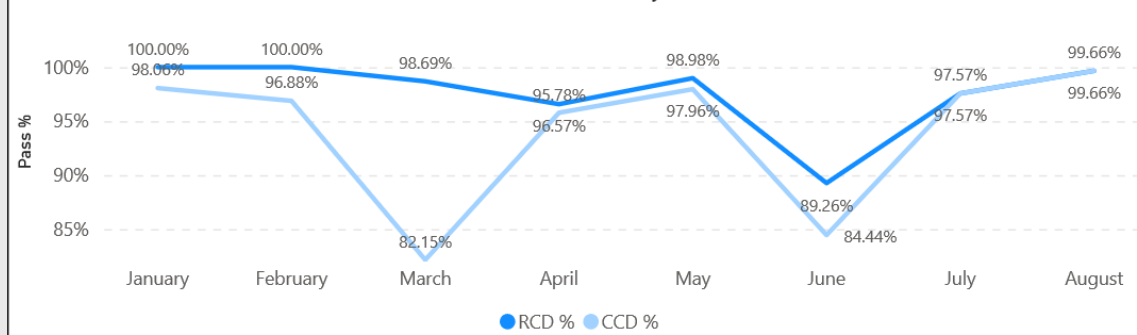
Davey Tree Ex...

Mowbrays Tre...

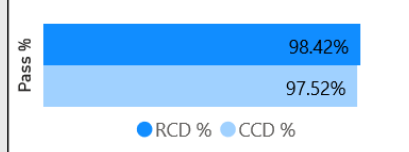
Rolling Green

Utility Tree Ser...

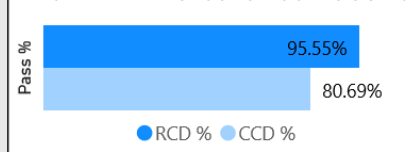
Clearance Pass % by Month



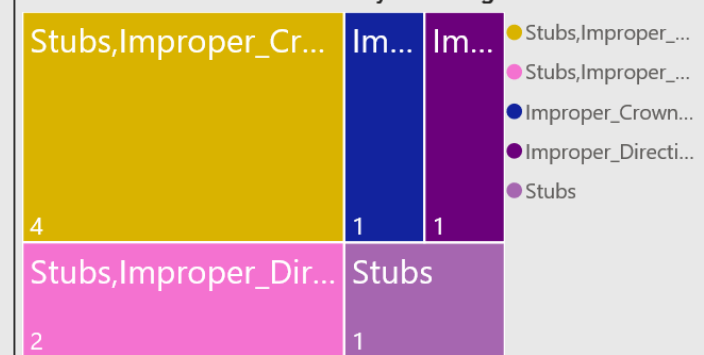
HFRA Clearance Pass %



Non HFRA Clearance Pass %



ANSI Quality Findings



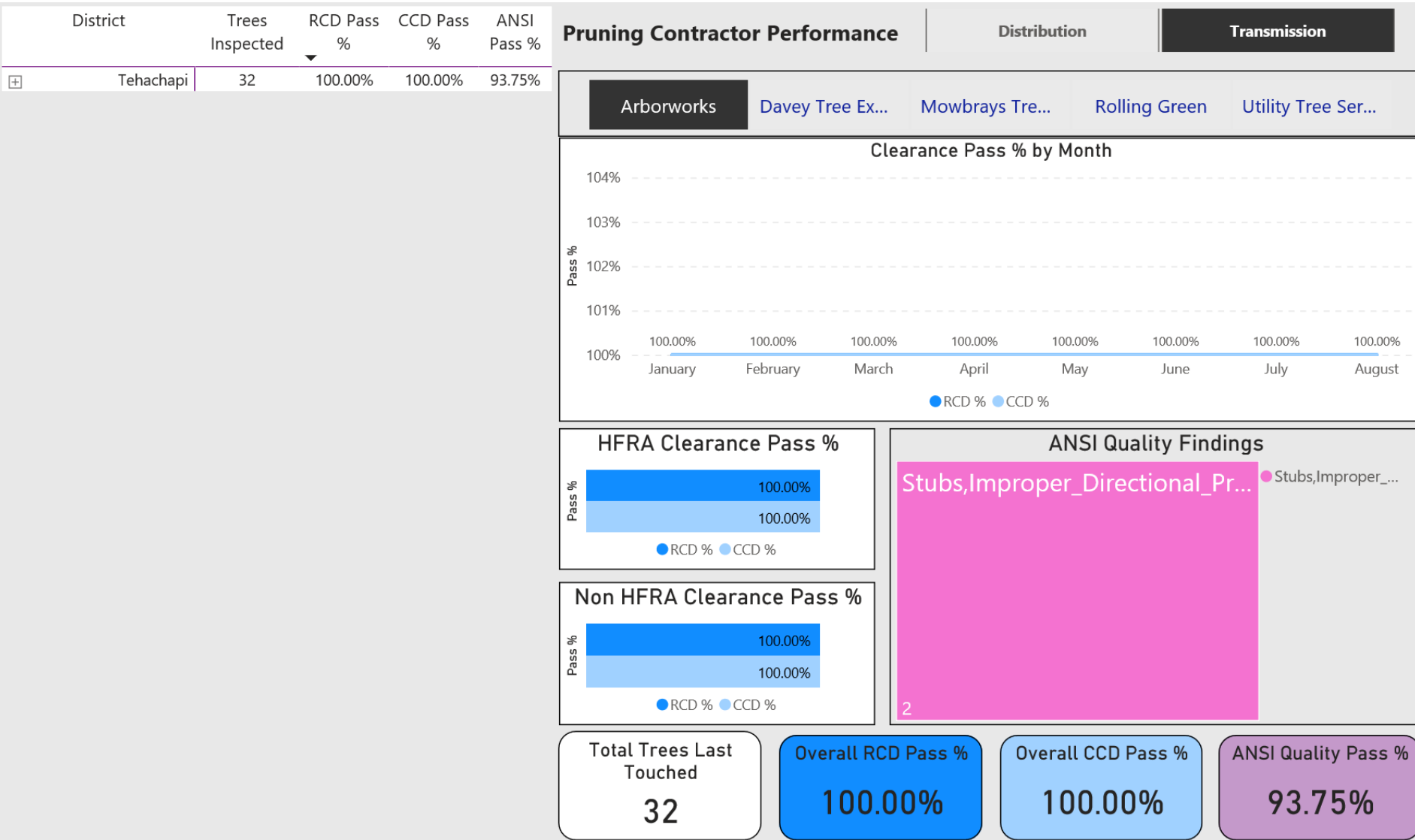
Total Trees Last Touched
5440

Overall RCD Pass %
97.90%

Overall CCD Pass %
94.45%

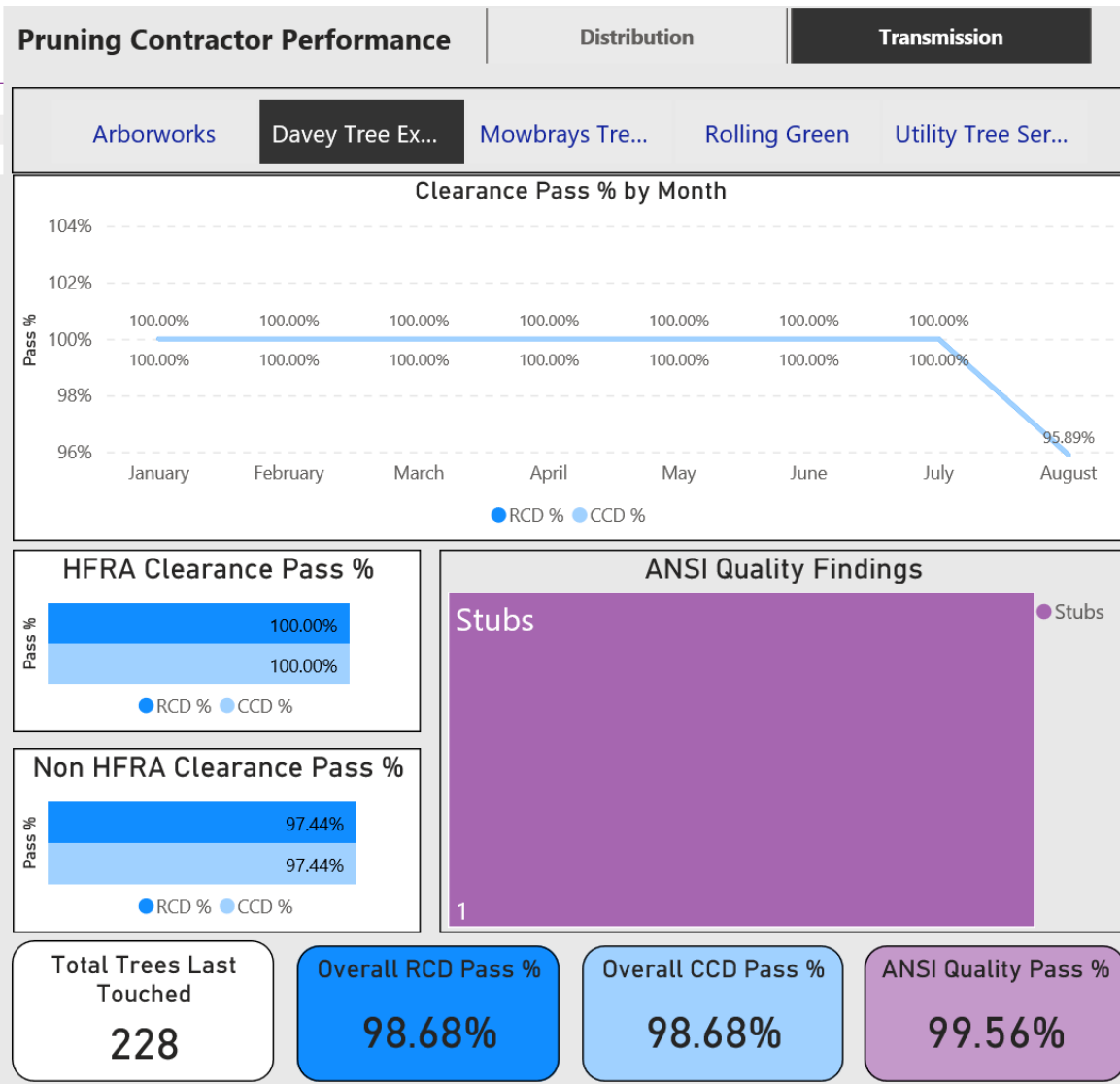
ANSI Quality Pass %
99.83%

Pruning Contractor – Arborworks (Transmission)



Pruning Contractor – Davey Tree Experts (Transmission)

District	Trees Inspected	RCD Pass %	CCD Pass %	ANSI Pass %	
+	Santa Monica	49	100.00%	100.00%	100.00%
+	Whittier	105	100.00%	100.00%	99.05%
+	South Bay	73	95.89%	95.89%	100.00%



Pruning Contractor – Mowbrays Tree Service (Transmission)

District	Trees Inspected	RCD Pass %	CCD Pass %	ANSI Pass %
Antelope Valley	2090	100.00%	99.47%	100.00%
Menifee	63	100.00%	100.00%	100.00%
Redlands	63	100.00%	96.83%	98.41%
San Joaquin	38	100.00%	100.00%	100.00%
Victorville	21	100.00%	85.71%	100.00%
Wildomar	6	100.00%	100.00%	100.00%
Valencia	379	99.47%	97.10%	98.94%
Thousand Oaks	476	89.50%	87.39%	100.00%

Pruning Contractor Performance

Distribution

Transmission

Arborworks

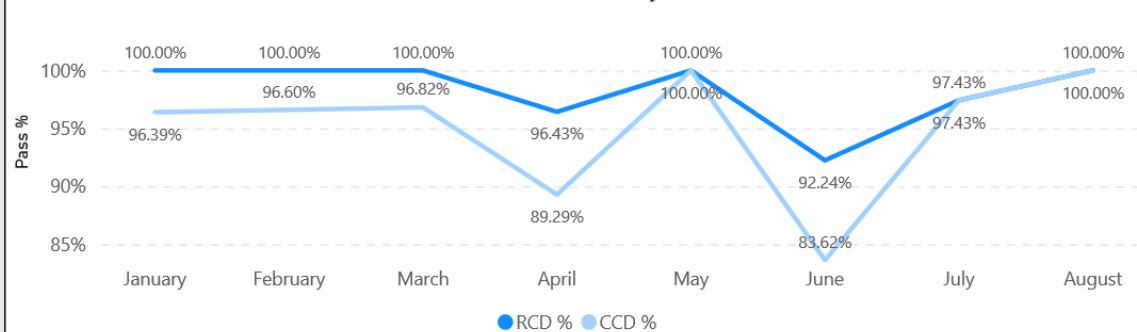
Davey Tree Ex...

Mowbrays Tre...

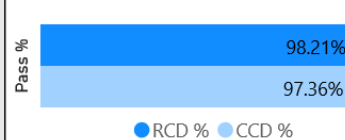
Rolling Green

Utility Tree Ser...

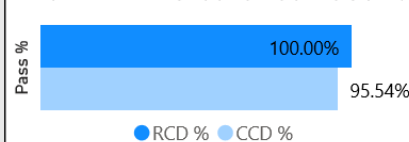
Clearance Pass % by Month



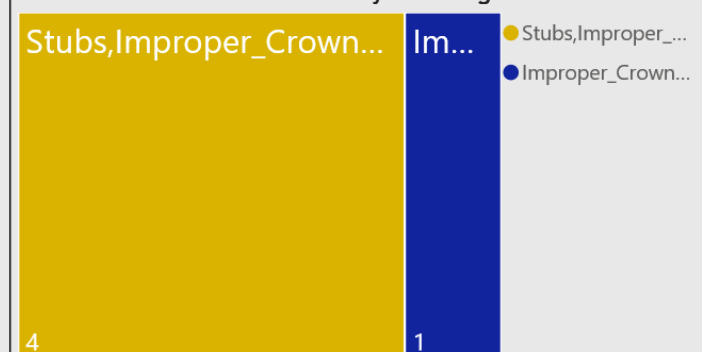
HFRA Clearance Pass %



Non HFRA Clearance Pass %



ANSI Quality Findings



Total Trees Last Touched
3138

Overall RCD Pass %
98.34%

Overall CCD Pass %
97.23%

ANSI Quality Pass %
99.84%

Pruning Contractor – Rolling Green (Transmission)

District	Trees Inspected	RCD Pass %	CCD Pass %	ANSI Pass %
<input type="checkbox"/> Covina	52	100.00%	100.00%	100.00%
<input type="checkbox"/> Ontario	512	99.80%	99.61%	100.00%

Pruning Contractor Performance

Distribution

Transmission

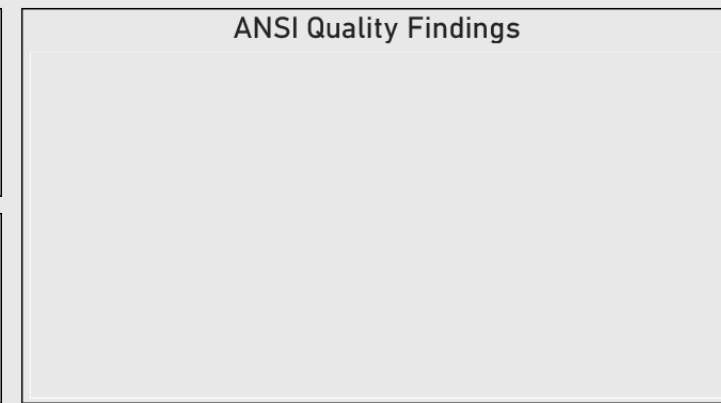
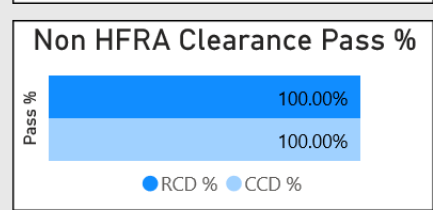
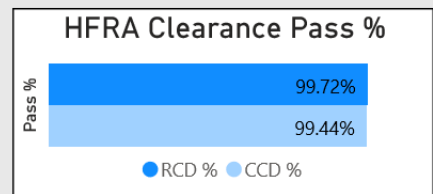
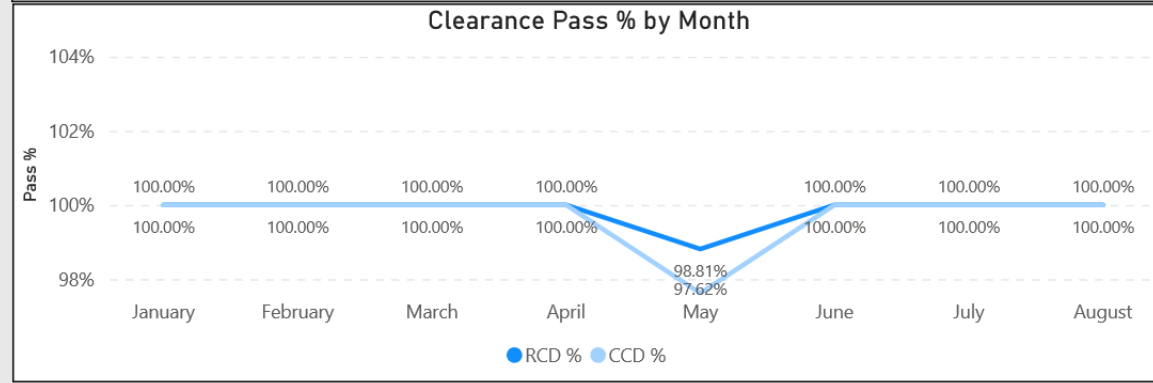
Arborworks

Davey Tree Ex...

Mowbrays Tre...

Rolling Green

Utility Tree Ser...



Total Trees Last Touched

565

Overall RCD Pass %

99.82%

Overall CCD Pass %

99.65%

ANSI Quality Pass %

100.00%

Pruning Contractor – Utility Tree Service (Transmission)

District	Trees Inspected	RCD Pass %	CCD Pass %	ANSI Pass %
Santa Ana	57	100.00%	100.00%	100.00%
Santa Barbara	234	100.00%	100.00%	100.00%
Ventura	41	100.00%	100.00%	100.00%
Saddleback	797	95.61%	77.04%	100.00%
Monrovia	331	93.05%	92.15%	99.70%

Pruning Contractor Performance

Distribution

Transmission

Arborworks

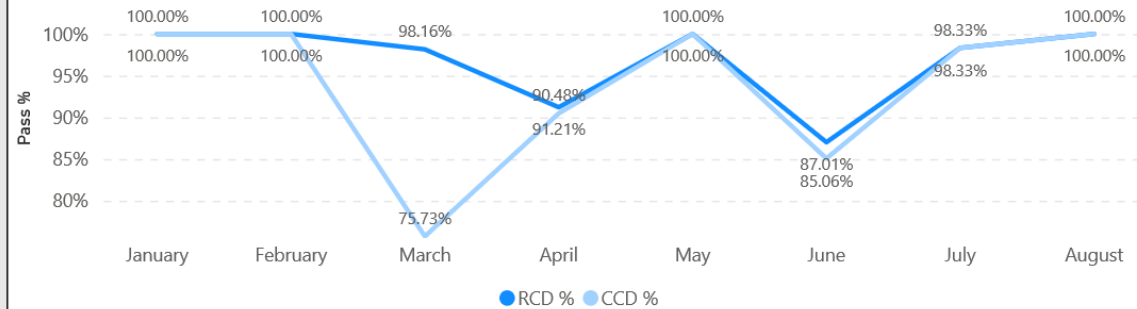
Davey Tree Ex...

Mowbrays Tre...

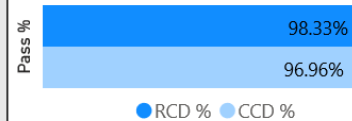
Rolling Green

Utility Tree Ser...

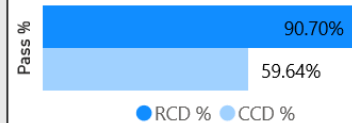
Clearance Pass % by Month



HFRA Clearance Pass %



Non HFRA Clearance Pass %



ANSI Quality Findings

Improper_Directional_Prune

Improper_Directi...

1

Total Trees Last Touched

1477

Overall RCD Pass %

96.03%

Overall CCD Pass %

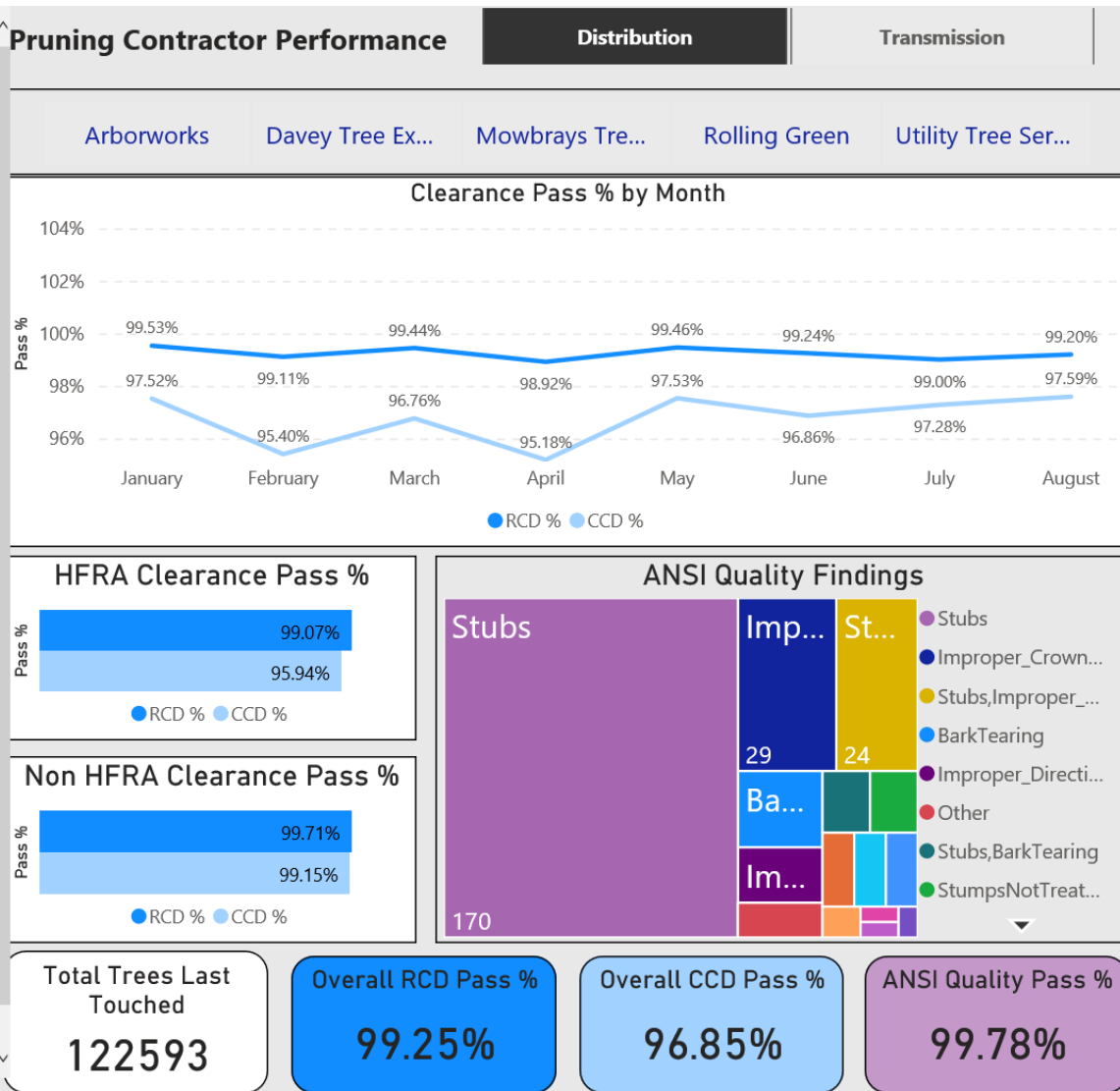
85.68%

ANSI Quality Pass %

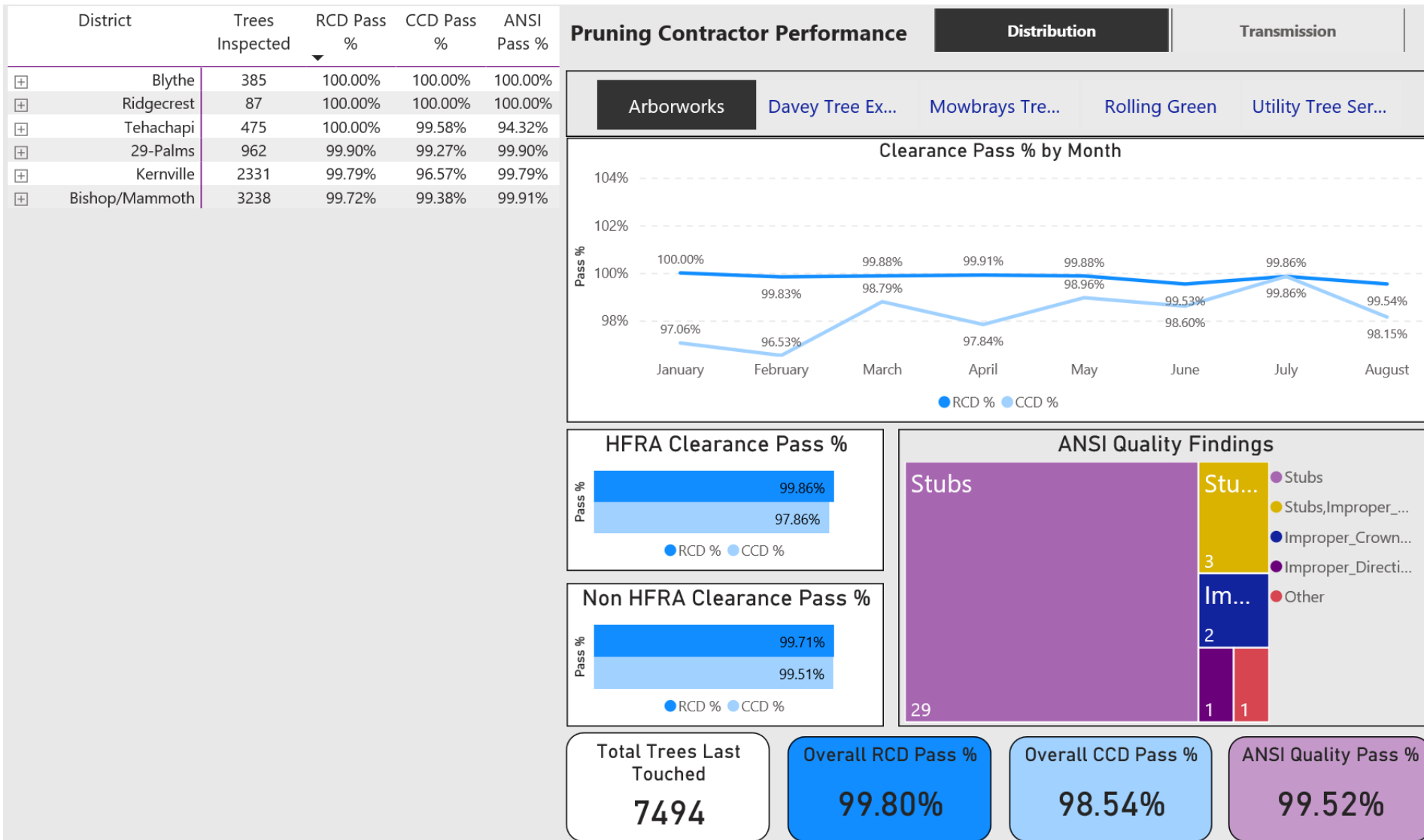
99.93%

Pruning Contractor – Overall Performance (Distribution)

District	Trees Inspected	RCD Pass %	CCD Pass %	ANSI Pass %
Big Creek	366	100.00%	99.73%	94.54%
Blythe	385	100.00%	100.00%	100.00%
Fullerton	1528	100.00%	99.74%	100.00%
Huntington Beach	636	100.00%	100.00%	100.00%
Ridgecrest	87	100.00%	100.00%	100.00%
San Joaquin	929	100.00%	100.00%	100.00%
Tehachapi	475	100.00%	99.58%	94.32%
Wildomar	8259	99.99%	99.83%	99.90%
29-Palms	962	99.90%	99.27%	99.90%
Menifee	10795	99.87%	99.56%	99.99%
Palm Springs	627	99.84%	99.84%	100.00%
Victorville	2470	99.84%	98.10%	100.00%
Ontario	5790	99.81%	99.03%	99.83%
Kernville	2331	99.79%	96.57%	99.79%
Whittier	1822	99.78%	99.18%	99.95%
Santa Ana	895	99.78%	99.55%	100.00%
Bishop/Mammoth	3238	99.72%	99.38%	99.91%
Santa Monica	2043	99.71%	98.24%	100.00%
Covina	10431	99.47%	98.74%	99.81%
Saddleback	787	99.36%	98.98%	100.00%
Montebello	1335	99.33%	96.25%	99.10%
Ventura	9010	99.23%	96.75%	99.81%
Thousand Oaks	11635	99.12%	96.74%	99.66%
Long Beach	1874	99.04%	97.87%	99.15%
Antelope Valley	2440	99.02%	93.73%	99.92%
Arrowhead	16215	99.01%	94.44%	99.86%
Compton	1079	98.89%	98.80%	99.54%
South Bay	6553	98.73%	96.37%	99.44%
Santa Barbara	1532	98.50%	93.08%	100.00%
Monrovia	7292	98.49%	91.74%	99.81%
Catalina	258	98.45%	98.45%	100.00%
Redlands	3533	97.62%	91.79%	99.97%
Foothill	1479	97.50%	94.93%	99.86%



Pruning Contractor – Arborworks (Distribution)



Pruning Contractor – Davey Tree Experts (Distribution)

District	Trees Inspected	RCD Pass %	CCD Pass %	ANSI Pass %
Whittier	1822	99.78%	99.18%	99.95%
Santa Monica	2043	99.71%	98.24%	100.00%
Long Beach	1874	99.04%	97.87%	99.15%
Compton	1079	98.89%	98.80%	99.54%
South Bay	6553	98.73%	96.37%	99.44%

Pruning Contractor Performance

Distribution

Transmission

Arborworks

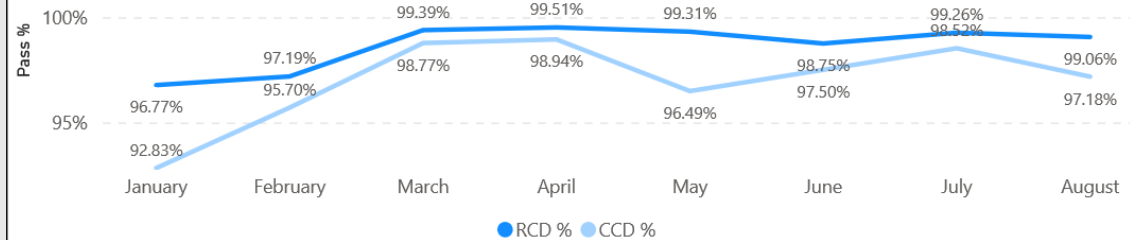
Davey Tree Ex...

Mowbrays Tre...

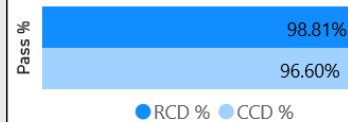
Rolling Green

Utility Tree Ser...

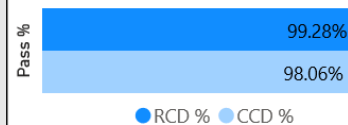
Clearance Pass % by Month



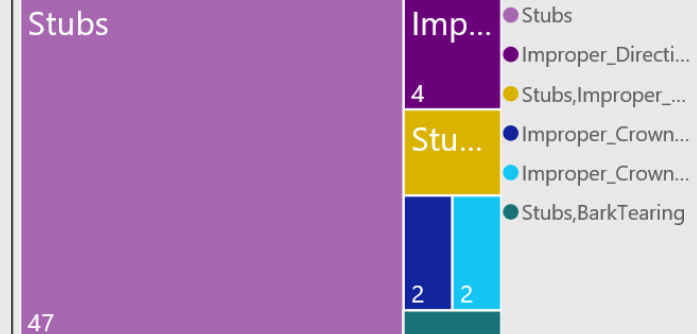
HFRA Clearance Pass %



Non HFRA Clearance Pass %



ANSI Quality Findings



Total Trees Last Touched
13491

Overall RCD Pass %
99.08%

Overall CCD Pass %
97.44%

ANSI Quality Pass %
99.56%

Pruning Contractor – Mowbrays Tree Service (Distribution)

District	Trees Inspected	RCD Pass %	CCD Pass %	ANSI Pass %
Big Creek	366	100.00%	99.73%	94.54%
San Joaquin	929	100.00%	100.00%	100.00%
Wildomar	8259	99.99%	99.83%	99.90%
Menifee	10795	99.87%	99.56%	99.99%
Palm Springs	627	99.84%	99.84%	100.00%
Victorville	2470	99.84%	98.10%	100.00%
Thousand Oaks	11635	99.12%	96.74%	99.66%
Antelope Valley	2440	99.02%	93.73%	99.92%
Arrowhead	16215	99.01%	94.44%	99.86%
Redlands	3533	97.62%	91.79%	99.97%
Foothill	1479	97.50%	94.93%	99.86%
Valencia	2339	97.48%	91.06%	99.62%

Pruning Contractor Performance

Distribution

Transmission

Arborworks

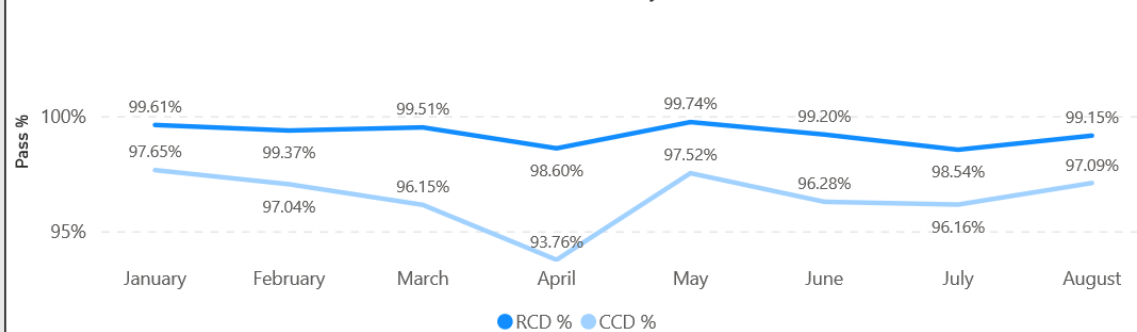
Davey Tree Ex...

Mowbrays Tre...

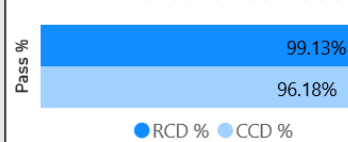
Rolling Green

Utility Tree Ser...

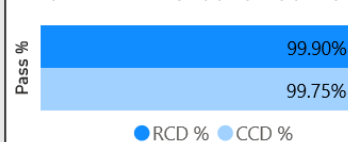
Clearance Pass % by Month



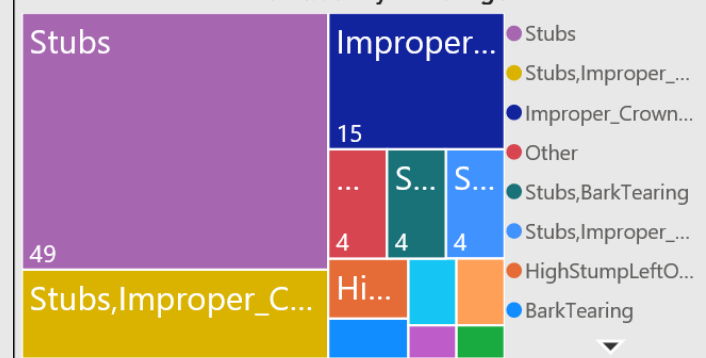
HFRA Clearance Pass %



Non HFRA Clearance Pass %



ANSI Quality Findings



Total Trees Last Touched

61836

Overall RCD Pass %

99.20%

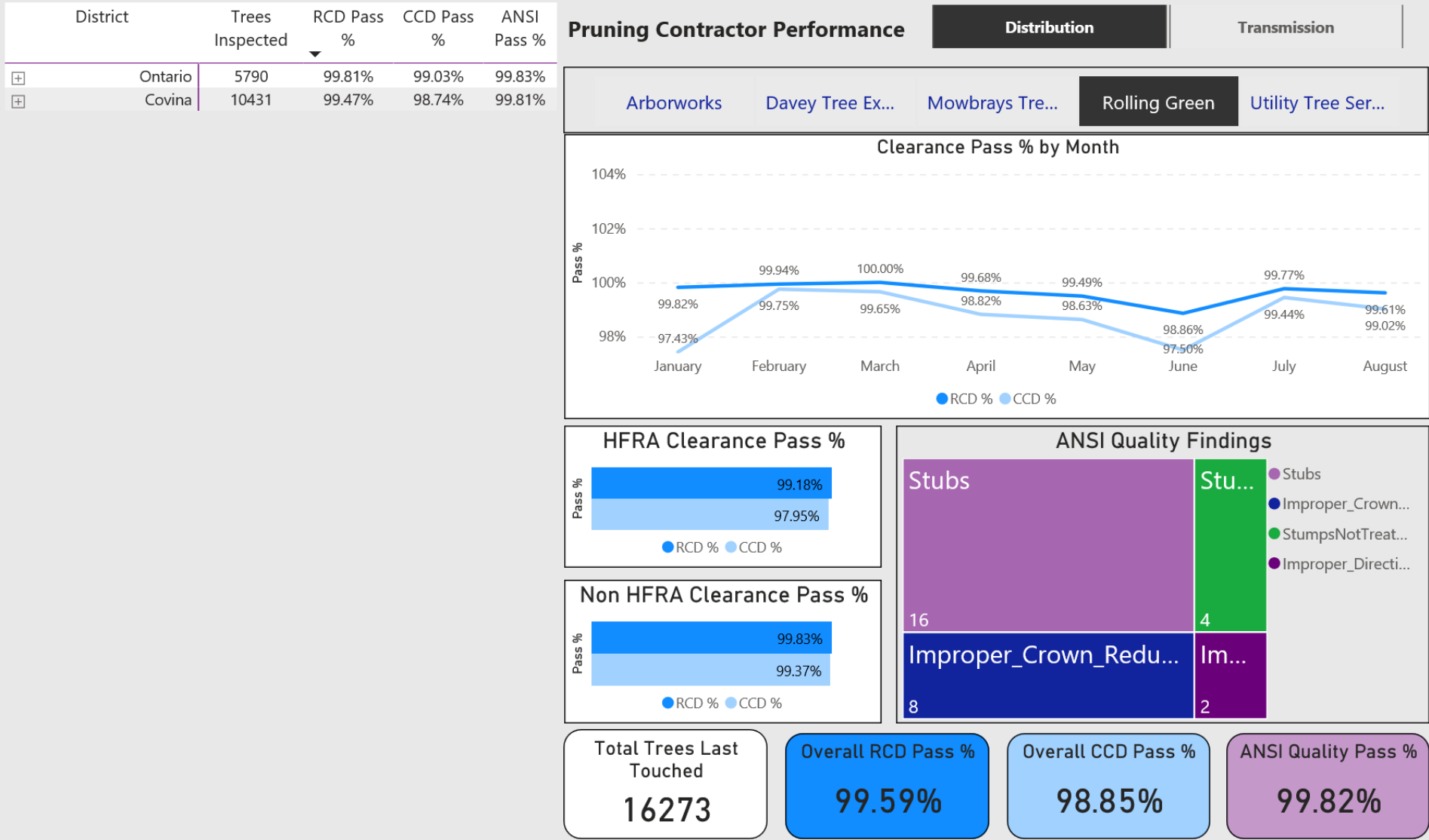
Overall CCD Pass %

96.53%

ANSI Quality Pass %

99.83%

Pruning Contractor – Rolling Green (Distribution)



Pruning Contractor – Utility Tree Service (Distribution)

District	Trees Inspected	RCD Pass %	CCD Pass %	ANSI Pass %
Fullerton	1528	100.00%	99.74%	100.00%
Huntington Beach	636	100.00%	100.00%	100.00%
Santa Ana	895	99.78%	99.55%	100.00%
Saddleback	787	99.36%	98.98%	100.00%
Montebello	1335	99.33%	96.25%	99.10%
Ventura	9010	99.23%	96.75%	99.81%
Santa Barbara	1532	98.50%	93.08%	100.00%
Monrovia	7292	98.49%	91.74%	99.81%
Catalina	258	98.45%	98.45%	100.00%

Pruning Contractor Performance

Distribution

Transmission

Arborworks

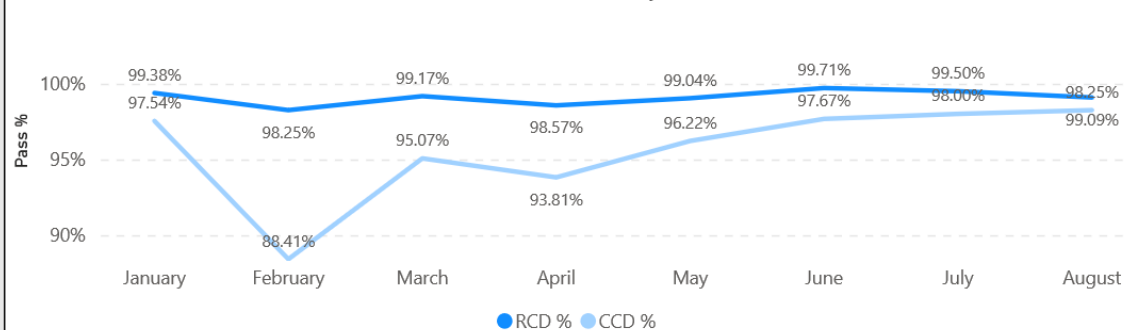
Davey Tree Ex...

Mowbrays Tre...

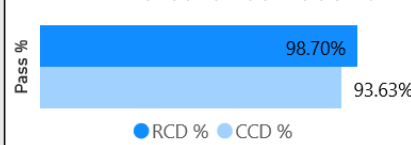
Rolling Green

Utility Tree Ser...

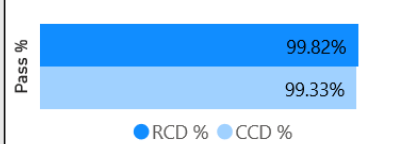
Clearance Pass % by Month



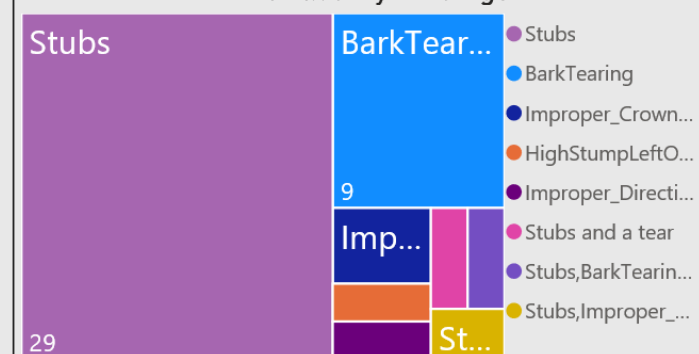
HFRA Clearance Pass %



Non HFRA Clearance Pass %



ANSI Quality Findings



Total Trees Last Touched

23499

Overall RCD Pass %

99.05%

Overall CCD Pass %

95.40%

ANSI Quality Pass %

99.81%

Inspection Contractor – Overall Performance (T&D)

District	Trees Inspected	RCD Failed Trees	RCD Pass %	Missed Tree Qty	Missed Tree Rate
Blythe	201	0	100.00%	0	0.00%
Compton	185	0	100.00%	2	1.08%
Fullerton	347	0	100.00%	0	0.00%
Palm Springs	98	0	100.00%	0	0.00%
Ridgecrest	42	0	100.00%	0	0.00%
San Joaquin	3757	0	100.00%	8	0.21%
Wildomar	2642	0	100.00%	14	0.53%
Bishop/Mammoth	1567	1	99.94%	12	0.77%
29-Palms	1097	1	99.91%	12	1.09%
Whittier	2459	3	99.88%	2	0.08%
Antelope Valley	3274	4	99.88%	163	4.98%
Big Creek	628	1	99.84%	6	0.96%
Saddleback	555	1	99.82%	1	0.18%
Ontario	2127	4	99.81%	16	0.75%
Tehachapi	479	1	99.79%	6	1.25%
Montebello	413	1	99.76%	10	2.42%
Covina	3678	9	99.76%	38	1.03%
Menifee	4247	12	99.72%	66	1.55%
Huntington Beach	349	1	99.71%	0	0.00%
South Bay	3053	12	99.61%	26	0.85%
Kernville	4464	21	99.53%	288	6.45%
Santa Monica	936	5	99.47%	10	1.07%
Ventura	7420	42	99.43%	88	1.19%
Monrovia	6434	40	99.38%	106	1.65%
Thousand Oaks	3740	29	99.22%	97	2.59%
Catalina	105	1	99.05%	32	30.48%
Arrowhead	5658	55	99.03%	542	9.58%
Victorville	458	5	98.91%	220	48.03%
Santa Ana	174	2	98.85%	2	1.15%
Redlands	2118	26	98.77%	79	3.73%
Long Beach	807	13	98.39%	6	0.74%
Santa Barbara	2701	49	98.19%	23	0.85%

Inspection Contractor Performance

Distribution

Transmission

ACRT

CNUC

Davey

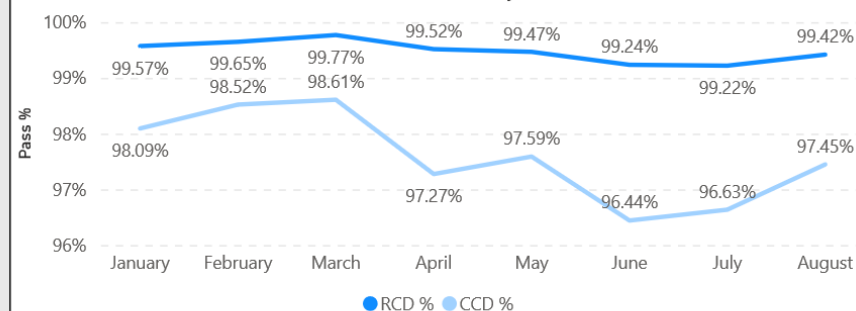
UPE

Total Trees
Last Touched
98818

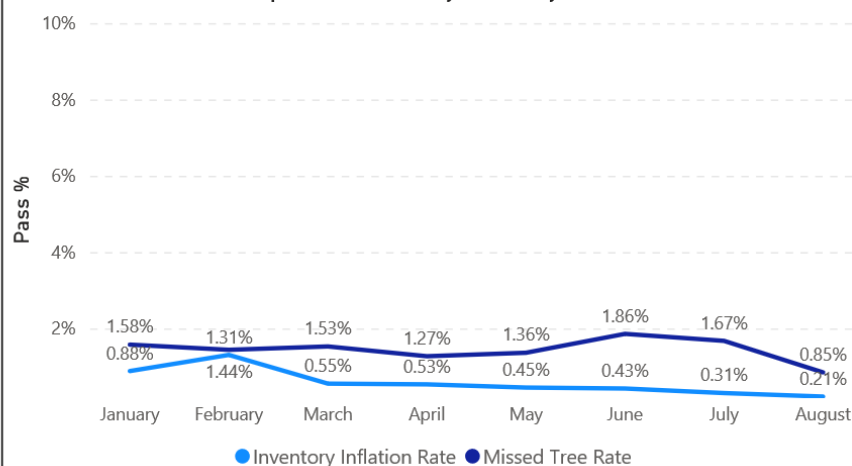
Overall RCD
Pass %
99.49%

Overall CCD
Pass %
97.58%

Clearance Pass % by Month



Inspection Accuracy Rates by Month



Total Trees
QC'd
230703

Missed Rate
1.41%

Inflation Rate
0.55%

Work Type
Accuracy
98.94%

Species ID
99.33%

- Missed Tree Quantity: Amount of trees identified by QC but not listed in VM tree database
- Inventory Inflation Quantity: Amount of trees listed in VM database but not located in the field

Inspection Contractor – YTD Missed Tree Trend (Transmission)

District	Trees Inspected	RCD Failed Trees	RCD Pass %	Missed Tree Qty	Missed Tree Rate
Antelope Valley	265	0	100.00%	0	0.00%
Menifee	86	0	100.00%	0	0.00%
Ontario	172	0	100.00%	0	0.00%
San Joaquin	1590	0	100.00%	0	0.00%
Santa Barbara	422	0	100.00%	0	0.00%
Tehachapi	177	0	100.00%	0	0.00%
Valencia	189	0	100.00%	3	1.59%
Ventura	122	0	100.00%	0	0.00%
Victorville	59	0	100.00%	2	3.39%
Saddleback	238	1	99.58%	0	0.00%
Monrovia	674	3	99.55%	11	1.63%
South Bay	77	2	97.40%	0	0.00%
Thousand Oaks	141	16	88.65%	0	0.00%

Inspection Contractor Performance

Distribution

Transmission

ACRT

CNUC

Davey

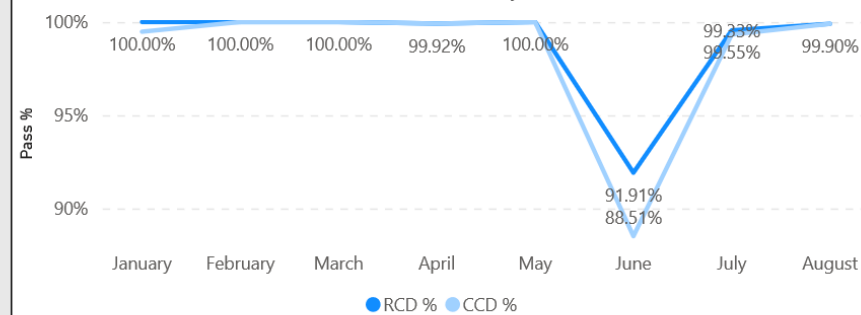
UPE

Total Trees Last Touched
5796

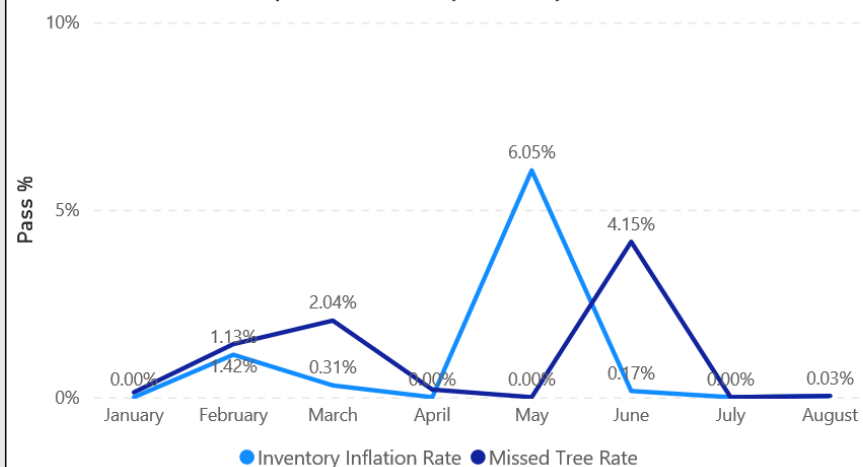
Overall RCD Pass %
99.58%

Overall CCD Pass %
99.33%

Clearance Pass % by Month



Inspection Accuracy Rates by Month



Total Trees QC'd
11367

Missed Rate
0.55%

Inflation Rate
0.26%

Work Type Accuracy
99.32%

Species ID
99.76%

- Missed Tree Quantity: Amount of trees identified by QC but not listed in VM tree database
- Inventory Inflation Quantity: Amount of trees listed in VM database but not located in the field

Inspection Contractor – ACRT (Transmission)

	District	Trees Inspected	RCD Failed Trees	RCD Pass %	Missed Tree Qty	Missed Tree Rate
+	San Joaquin	1590	0	100.00%	0	0.00%
+	Santa Barbara	422	0	100.00%	0	0.00%
+	Tehachapi	177	0	100.00%	0	0.00%
+	Ventura	122	0	100.00%	0	0.00%

Inspection Contractor Performance

Distribution

Transmission

ACRT

CNUC

Davey

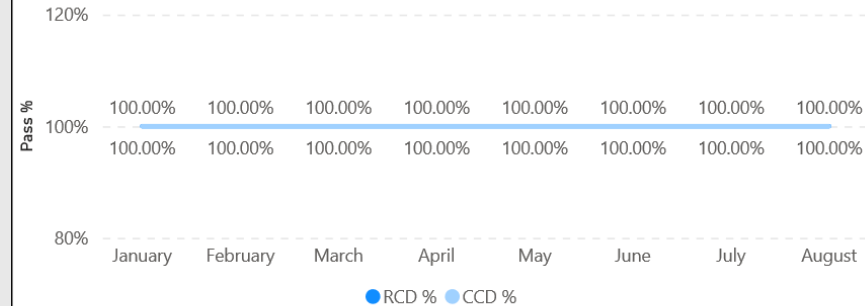
UPE

Total Trees Last Touched
2460

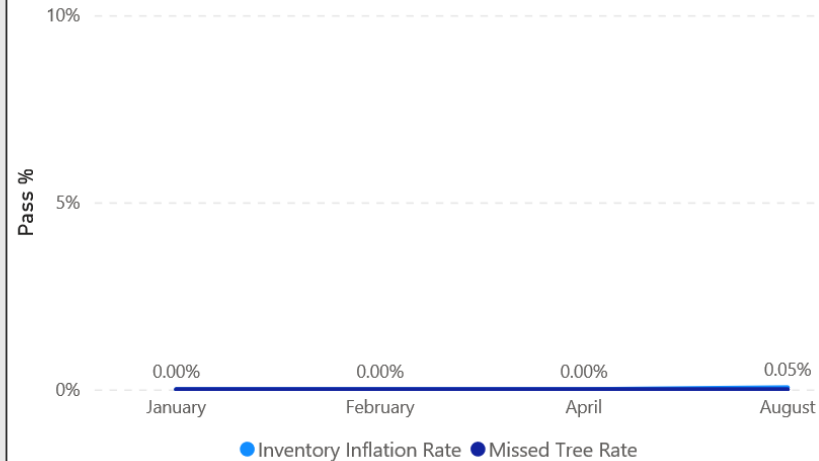
Overall RCD Pass %
100.00%

Overall CCD Pass %
100.00%

Clearance Pass % by Month



Inspection Accuracy Rates by Month



Total Trees QC'd
2805

Missed Rate
0.00%

Inflation Rate
0.04%

Work Type Accuracy
100.00%

Species ID
99.75%

- Missed Tree Quantity: Amount of trees identified by QC but not listed in VM tree database
- Inventory Inflation Quantity: Amount of trees listed in VM database but not located in the field

Inspection Contractor – CNUC (Transmission)

District	Trees Inspected	RCD Failed Trees	RCD Pass %	Missed Tree Qty	Missed Tree Rate
Menifee	86	0	100.00%	0	0.00%
Ontario	172	0	100.00%	0	0.00%
Victorville	59	0	100.00%	2	3.39%
Saddleback	238	1	99.58%	0	0.00%
Monrovia	674	3	99.55%	11	1.63%

Inspection Contractor Performance

Distribution

Transmission

ACRT

CNUC

Davey

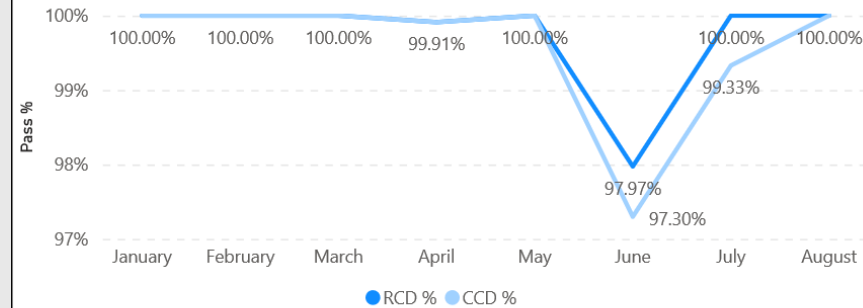
UPE

Total Trees Last Touched
2103

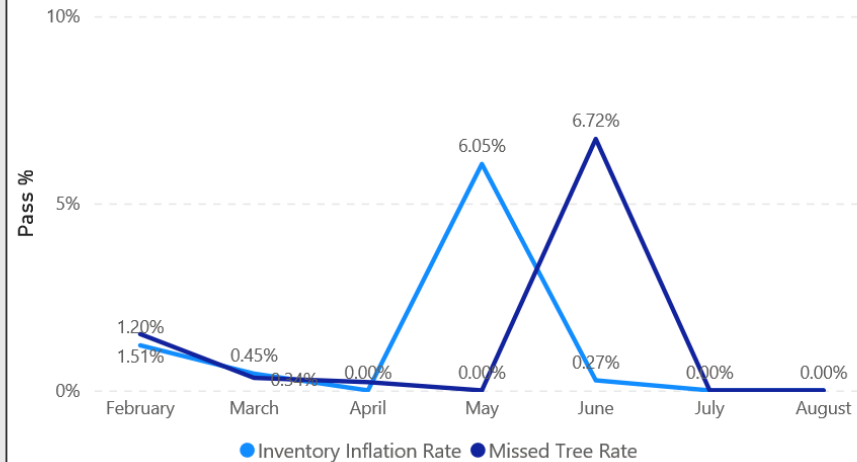
Overall RCD Pass %
99.81%

Overall CCD Pass %
99.71%

Clearance Pass % by Month



Inspection Accuracy Rates by Month



Total Trees QC'd
4070

Missed Rate
0.91%

Inflation Rate
0.69%

Work Type Accuracy
98.97%

Species ID
99.61%

- Missed Tree Quantity: Amount of trees identified by QC but not listed in VM tree database
- Inventory Inflation Quantity: Amount of trees listed in VM database but not located in the field

Inspection Contractor – Davey (Transmission)

District	Trees Inspected	RCD Failed Trees	RCD Pass %	Missed Tree Qty	Missed Tree Rate
South Bay	77	2	97.40%	0	0.00%

Inspection Contractor Performance

Distribution

Transmission

ACRT

CNUC

Davey

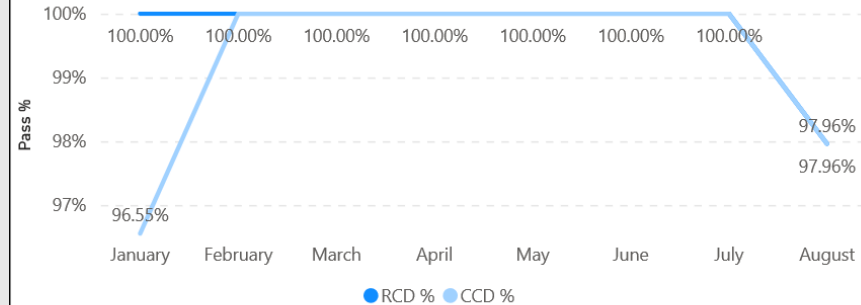
UPE

Total Trees Last Touched
178

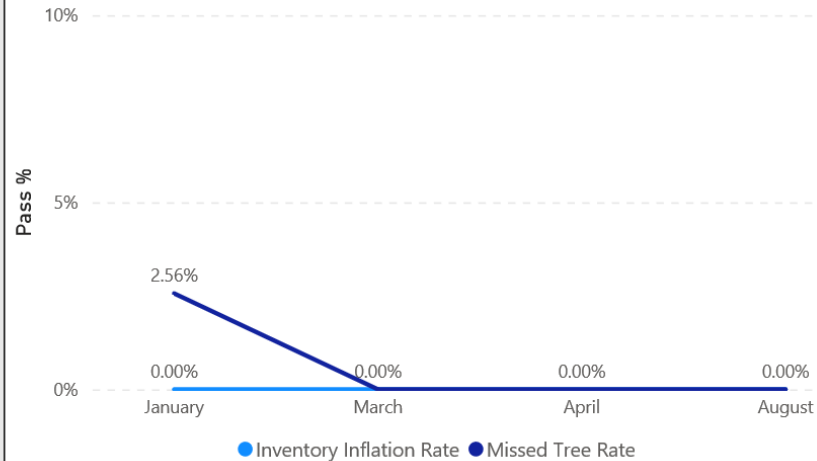
Overall RCD Pass %
98.78%

Overall CCD Pass %
98.17%

Clearance Pass % by Month



Inspection Accuracy Rates by Month



Total Trees QC'd
435

Missed Rate
0.46%

Inflation Rate
0.00%

Work Type Accuracy
91.95%

Species ID
99.31%

• Missed Tree Quantity: Amount of trees identified by QC but not listed in VM tree database

• Inventory Inflation Quantity: Amount of trees listed in VM database but not located in the field

Inspection Contractor – UPE (Transmission)

	District	Trees Inspected	RCD Failed Trees	RCD Pass %	Missed Tree Qty	Missed Tree Rate
+	Antelope Valley	265	0	100.00%	0	0.00%
+	Valencia	189	0	100.00%	3	1.59%
+	Thousand Oaks	141	16	88.65%	0	0.00%

Inspection Contractor Performance

Distribution

Transmission

ACRT

CNUC

Davey

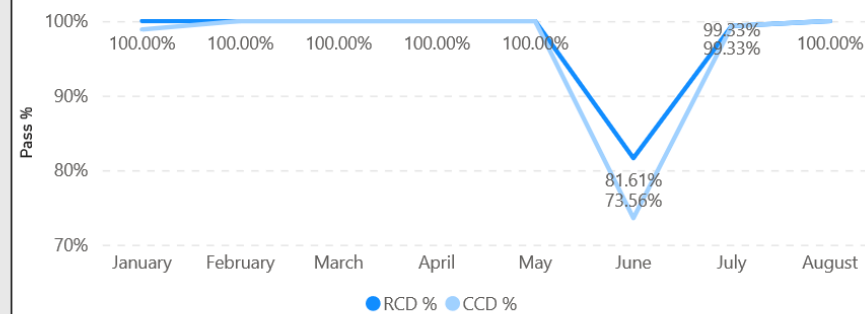
UPE

Total Trees Last Touched
1055

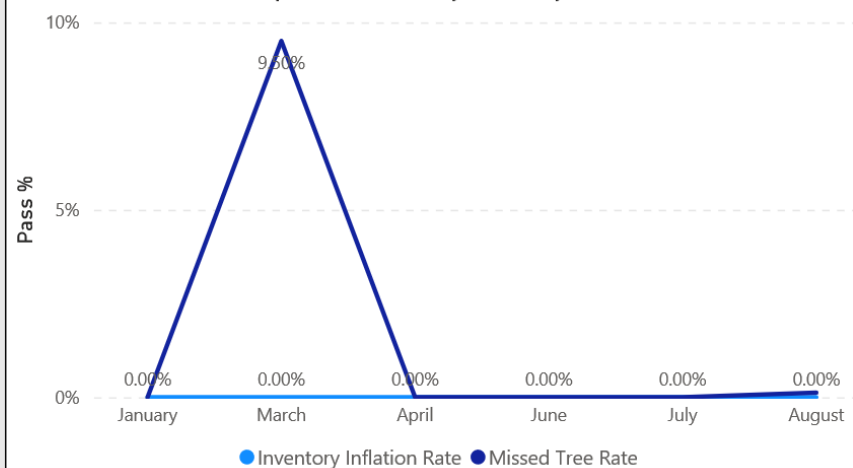
Overall RCD Pass %
98.11%

Overall CCD Pass %
96.96%

Clearance Pass % by Month



Inspection Accuracy Rates by Month



Total Trees QC'd
4057

Missed Rate
0.59%

Inflation Rate
0.00%

Work Type Accuracy
100.00%

Species ID
99.98%

- Missed Tree Quantity: Amount of trees identified by QC but not listed in VM tree database
- Inventory Inflation Quantity: Amount of trees listed in VM database but not located in the field

Inspection Contractor – YTD Missed Tree Trend (Distribution)

District	Trees Inspected	RCD Failed Trees	RCD Pass %	Missed Tree Qty	Missed Tree Rate
Blythe	201	0	100.00%	0	0.00%
Compton	185	0	100.00%	2	1.08%
Fullerton	347	0	100.00%	0	0.00%
Palm Springs	98	0	100.00%	0	0.00%
Ridgecrest	42	0	100.00%	0	0.00%
Saddleback	317	0	100.00%	1	0.32%
San Joaquin	2167	0	100.00%	8	0.37%
Wildomar	2642	0	100.00%	14	0.53%
Bishop/Mammoth	1567	1	99.94%	12	0.77%
29-Palms	1097	1	99.91%	12	1.09%
Whittier	2459	3	99.88%	2	0.08%
Antelope Valley	3009	4	99.87%	163	5.42%
Big Creek	628	1	99.84%	6	0.96%
Ontario	1955	4	99.80%	16	0.82%
Montebello	413	1	99.76%	10	2.42%
Covina	3678	9	99.76%	38	1.03%
Huntington Beach	349	1	99.71%	0	0.00%
Menifee	4161	12	99.71%	66	1.59%
Tehachapi	302	1	99.67%	6	1.99%
South Bay	2976	10	99.66%	26	0.87%
Thousand Oaks	3599	13	99.64%	97	2.70%
Kernville	4464	21	99.53%	288	6.45%
Santa Monica	936	5	99.47%	10	1.07%
Ventura	7298	42	99.42%	88	1.21%
Monrovia	5760	37	99.36%	95	1.65%
Catalina	105	1	99.05%	32	30.48%
Arrowhead	5658	55	99.03%	542	9.58%
Santa Ana	174	2	98.85%	2	1.15%
Redlands	2118	26	98.77%	79	3.73%
Victorville	399	5	98.75%	218	54.64%
Long Beach	807	13	98.39%	6	0.74%
Santa Barbara	2279	49	97.85%	23	1.01%

Inspection Contractor Performance

Distribution

Transmission

ACRT

CNUC

Davey

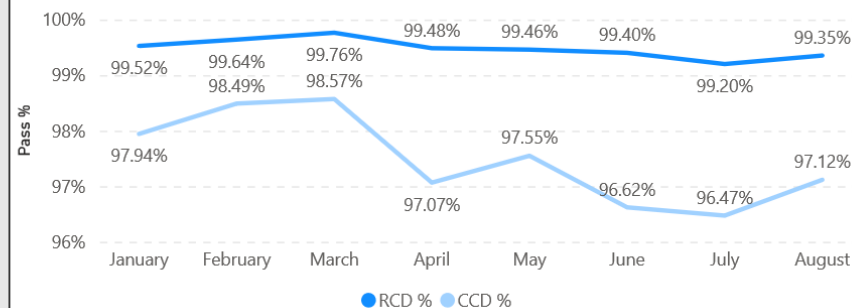
UPE

Total Trees
Last Touched
92915

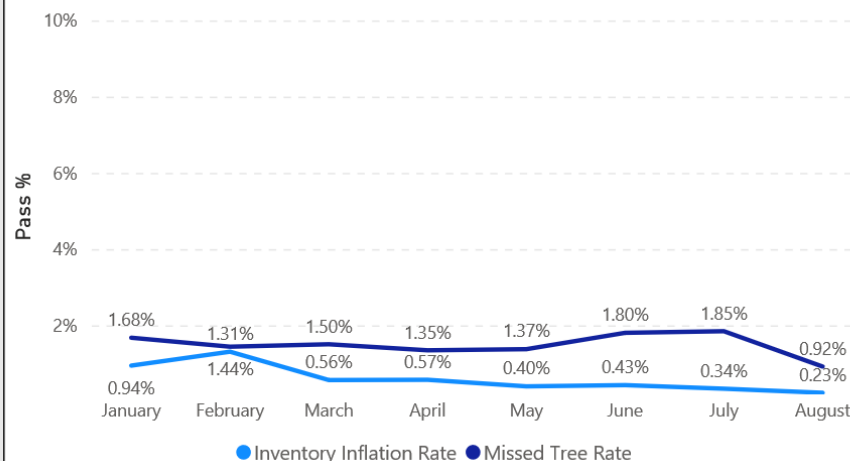
Overall RCD
Pass %
99.48%

Overall CCD
Pass %
97.47%

Clearance Pass % by Month



Inspection Accuracy Rates by Month



Total Trees
QC'd
219221

Missed Rate
1.45%

Inflation Rate
0.57%

Work Type
Accuracy
98.92%

Species ID
99.31%

- Missed Tree Quantity: Amount of trees identified by QC but not listed in VM tree database
- Inventory Inflation Quantity: Amount of trees listed in VM database but not located in the field

Inspection Contractor – ACRT (Distribution)

District	Trees Inspected	RCD Failed Trees	RCD Pass %	Missed Tree Qty	Missed Tree Rate
Blythe	201	0	100.00%	0	0.00%
Ridgecrest	42	0	100.00%	0	0.00%
San Joaquin	2167	0	100.00%	8	0.37%
Bishop/Mammoth	1567	1	99.94%	12	0.77%
29-Palms	1097	1	99.91%	12	1.09%
Big Creek	628	1	99.84%	6	0.96%
Tehachapi	302	1	99.67%	6	1.99%
Kernville	4464	21	99.53%	288	6.45%
Ventura	7298	42	99.42%	88	1.21%
Santa Barbara	2279	49	97.85%	23	1.01%

Inspection Contractor Performance

Distribution

Transmission

ACRT

CNUC

Davey

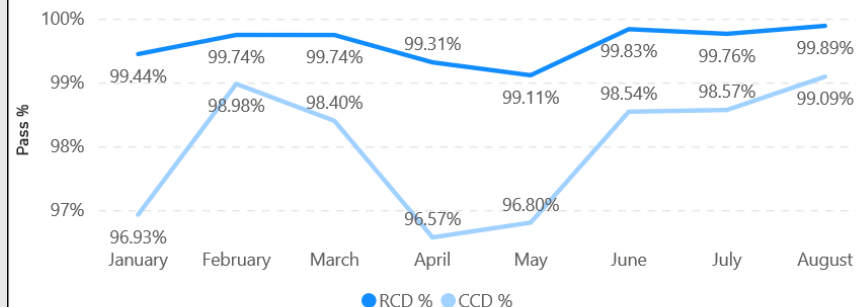
UPE

Total Trees
Last Touched
27756

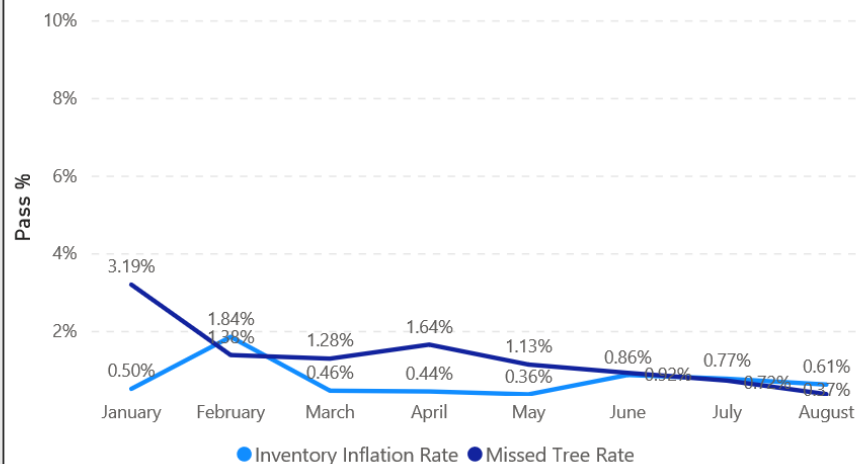
Overall RCD
Pass %
99.54%

Overall CCD
Pass %
97.75%

Clearance Pass % by Month



Inspection Accuracy Rates by Month



Total Trees
QC'd
47997

Missed Rate
1.31%

Inflation Rate
0.63%

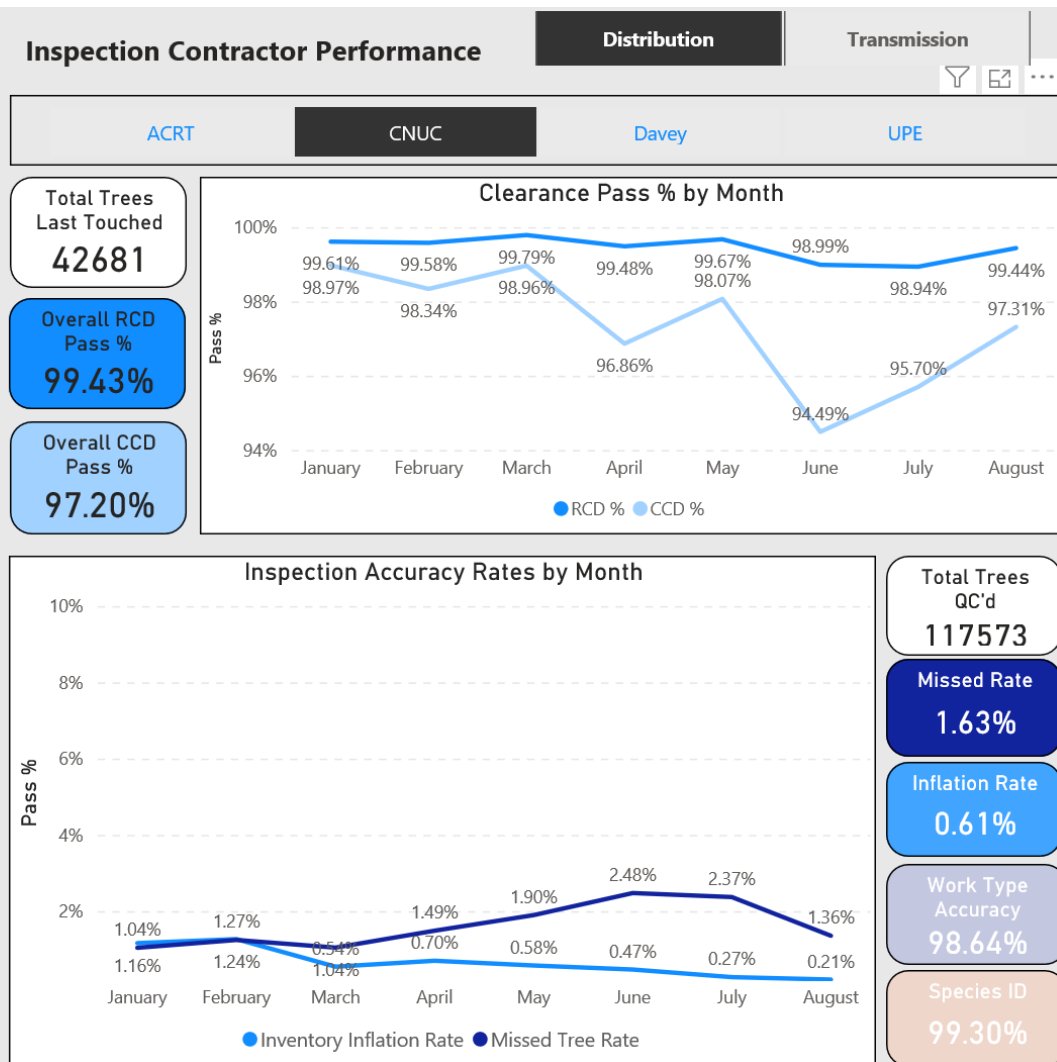
Work Type
Accuracy
99.94%

Species ID
99.58%

- Missed Tree Quantity: Amount of trees identified by QC but not listed in VM tree database
- Inventory Inflation Quantity: Amount of trees listed in VM database but not located in the field

Inspection Contractor – CNUC (Distribution)

District	Trees Inspected	RCD Failed Trees	RCD Pass %	Missed Tree Qty	Missed Tree Rate
Fullerton	347	0	100.00%	0	0.00%
Palm Springs	98	0	100.00%	0	0.00%
Saddleback	317	0	100.00%	1	0.32%
Wildomar	2642	0	100.00%	14	0.53%
Ontario	1955	4	99.80%	16	0.82%
Montebello	413	1	99.76%	10	2.42%
Covina	3678	9	99.76%	38	1.03%
Huntington Beach	349	1	99.71%	0	0.00%
Menifee	4161	12	99.71%	66	1.59%
Monrovia	5760	37	99.36%	95	1.65%
Catalina	105	1	99.05%	32	30.48%
Arrowhead	5658	55	99.03%	542	9.58%
Santa Ana	174	2	98.85%	2	1.15%
Redlands	2118	26	98.77%	79	3.73%
Victorville	399	5	98.75%	218	54.64%
Foothill	204	9	95.59%	54	26.47%



- Missed Tree Quantity: Amount of trees identified by QC but not listed in VM tree database
- Inventory Inflation Quantity: Amount of trees listed in VM database but not located in the field

Inspection Contractor – Davey (Distribution)

District	Trees Inspected	RCD Failed Trees	RCD Pass %	Missed Tree Qty	Missed Tree Rate
Compton	185	0	100.00%	2	1.08%
Whittier	2459	3	99.88%	2	0.08%
South Bay	2976	10	99.66%	26	0.87%
Santa Monica	936	5	99.47%	10	1.07%
Long Beach	807	13	98.39%	6	0.74%

Inspection Contractor Performance

Distribution

Transmission

ACRT

CNUC

Davey

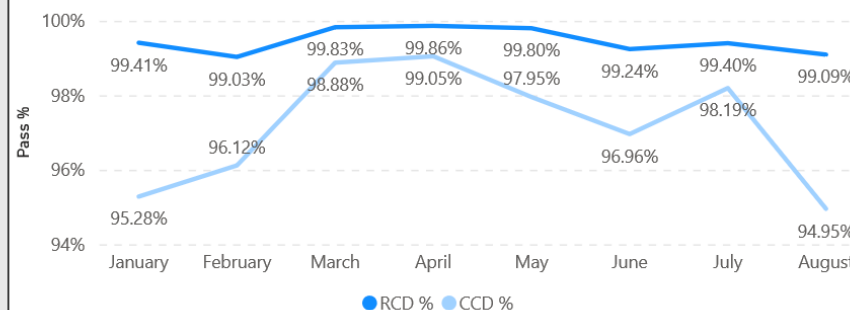
UPE

Total Trees Last Touched
9058

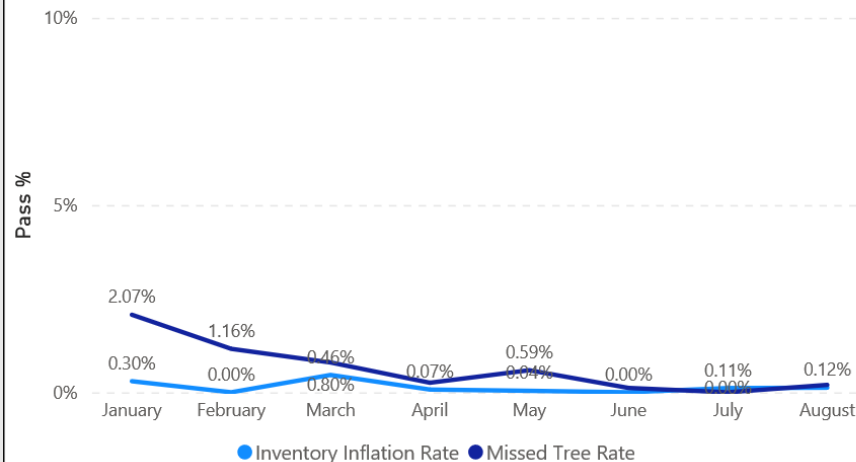
Overall RCD Pass %
99.60%

Overall CCD Pass %
97.54%

Clearance Pass % by Month



Inspection Accuracy Rates by Month


Total Trees QC'd
23167

Missed Rate
0.51%

Inflation Rate
0.17%

Work Type Accuracy
97.50%

Species ID
99.63%

- Missed Tree Quantity: Amount of trees identified by QC but not listed in VM tree database
- Inventory Inflation Quantity: Amount of trees listed in VM database but not located in the field

Inspection Contractor – UPE (Distribution)

	District	Trees Inspected	RCD Failed Trees	RCD Pass %	Missed Tree Qty	Missed Tree Rate
+	Antelope Valley	3009	4	99.87%	163	5.42%
+	Thousand Oaks	3599	13	99.64%	97	2.70%
+	Valencia	1342	29	97.84%	68	5.07%

Inspection Contractor Performance

Distribution

Transmission

ACRT

CNUC

Davey

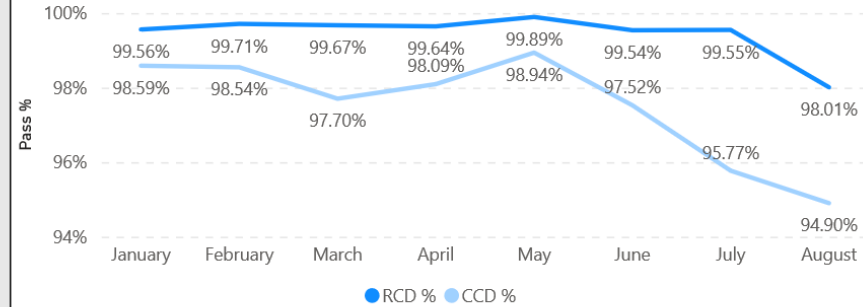
UPE

Total Trees Last Touched
13420

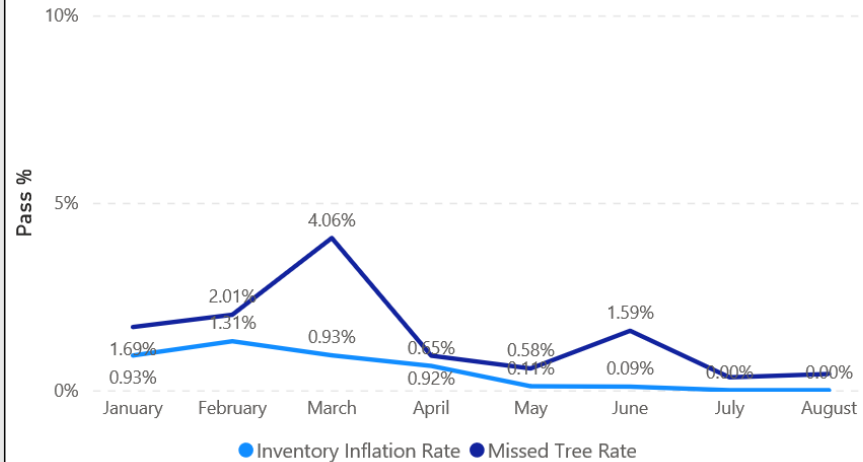
Overall RCD Pass %
99.47%

Overall CCD Pass %
97.72%

Clearance Pass % by Month



Inspection Accuracy Rates by Month



Total Trees QC'd
30484

Missed Rate
1.71%

Inflation Rate
0.58%

Work Type Accuracy
99.51%

Species ID
98.66%

- Missed Tree Quantity: Amount of trees identified by QC but not listed in VM tree database
- Inventory Inflation Quantity: Amount of trees listed in VM database but not located in the field