

VM Performance Review Meeting

February 11, 2021

QC Mileage, Sampling and Performance Targets

Summary of Circuit Miles for Inspection in HFRA and Non-HFRA

Fire Area	T/D	REAX % Range	Risk %	Inspection %	Miles	Total Miles	All Miles
HFRA	T&D	≥ 80	≥ 93.87	100%	2161	6125	8145
	T&D	< 80	< 93.87	99/1.7%	4064		
Non-HFRA	Transmission	N/A	N/A	99/4.3%	800	2020	
	Distribution			99/3.6%	1220		

SAMPLING – 100% QC inspection is performed on 2161 circuit miles. These 2161 miles represent ≥ 80% REAX Range and present ≥ 93.87% of the risk

QC inspection is performed on a “circuit mileage” basis. Vegetation within the selected circuit mile is assessed for compliance to UVM Program requirements. Judgmental sampling is performed to select circuit mileage with known adjacent vegetation

CL/CI Based on REAX Stratification for HFRA

REAX % Range	% of Risk	Cumulative Risk %	Circuit Miles	Total Circuit Miles	CL/CI %	Actual CL/CI %
98-100	46.01	46.01	221	221	99/1.3	N/A
95-98	18.02	64.03	278	499		100% Inspection
90-95	16.65	80.68	536	1035		
80-90	13.19	93.87	1126	2161		
70-80	4.04	97.91	1100	3261		99/1.7
60-70	1.41	99.32	1133	4394		
50-60	0.49	99.81	1181	5575		
25-50	0.20	100.00	3493	9068		
0-25	0.09	100.00	7121	16189		

Fire Area	Acceptable Quality Level	
	RCD	CCD
HFRA	100%	95%
Non-HFRA		

QUALITY: An Acceptable Quality Level of 100% RCD has been established for VM. This is the highest program expectation of all T&D QC Programs. In 2021, SCE established a Tier 1 QC Metric for CCD conformance. Targets are 91% / 95% / 99% AQL

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				1020.8				336.6			
March	2036.25				1531.2				504.9			
April	2715.00				2041.6				673.2			
May	3393.75				2552.0				841.5			
June	4072.50				3062.4				1009.8			
July	4751.25				3572.8				1178.1			
August	5430.00				4083.2				1346.4			
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				
	January	February	March	YTD
T & D	99.43%	N/A	N/A	99.43%
Transmission	100.00%	N/A	N/A	100.00%
Distribution	99.40%	N/A	N/A	99.40%
RCD CONFORMANCE – PRUNING CONTRACTORS				
T & D	99.65%	N/A	N/A	99.65%
Transmission	100.00%	N/A	N/A	100.00%
Distribution	99.63%	N/A	N/A	99.63%
RCD CONFORMANCE – INSPECTION CONTRACTORS				
T & D	99.07%	N/A	N/A	99.07%
Transmission	100.00%	N/A	N/A	100.00%
Distribution	99.00%	N/A	N/A	99.00%

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

CCD CONFORMANCE – OVERALL VM PROGRAM				
	January	February	March	YTD
T & D	97.13%	N/A	N/A	97.13%
Transmission	98.87%	N/A	N/A	98.87%
Distribution	97.01%	N/A	N/A	97.01%
CCD CONFORMANCE – PRUNING CONTRACTORS				
T & D	97.44%	N/A	N/A	97.44%
Transmission	98.15%	N/A	N/A	98.15%
Distribution	97.40%	N/A	N/A	97.40%
CCD CONFORMANCE – INSPECTION CONTRACTORS				
T & D	96.63%	N/A	N/A	96.63%
Transmission	100.00%	N/A	N/A	100.00%
Distribution	96.39%	N/A	N/A	96.39%

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

< 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



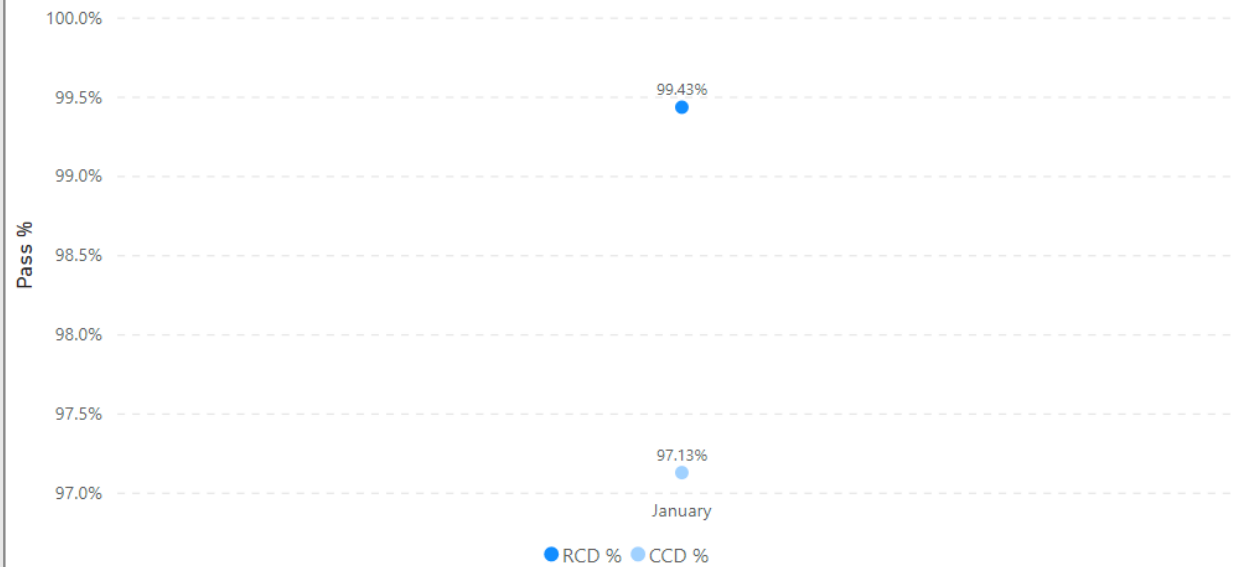
Pass % by District

District	Trees Inspected	RCD Pass %	CCD Pass %
Antelope Valley	1330	100.00%	98.87%
Redlands	775	100.00%	99.74%
Santa Barbara	564	100.00%	100.00%
Wildomar	2794	100.00%	99.68%
Menifee	2897	99.97%	99.72%
Covina	959	99.79%	98.54%
Ontario	559	99.64%	97.85%
Ventura	3164	99.62%	98.04%
Saddleback	374	99.47%	95.99%
Thousand Oaks	1672	99.34%	94.98%
Valencia	1677	99.17%	97.61%
Arrowhead	3608	99.03%	94.32%
Kernville	1646	98.78%	93.80%
South Bay	598	97.49%	89.63%

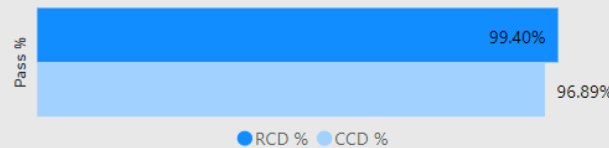
Distribution

Transmission

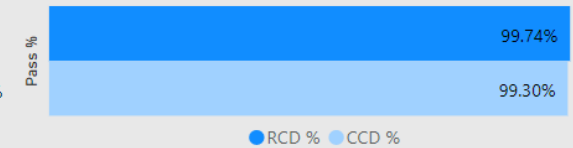
Clearance Pass % by Month



HFRA Clearance Pass %



Non HFRA Clearance Pass %



Total Trees Inspected

23349

Overall RCD Pass %

99.43%

Overall CCD Pass %

97.13%

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

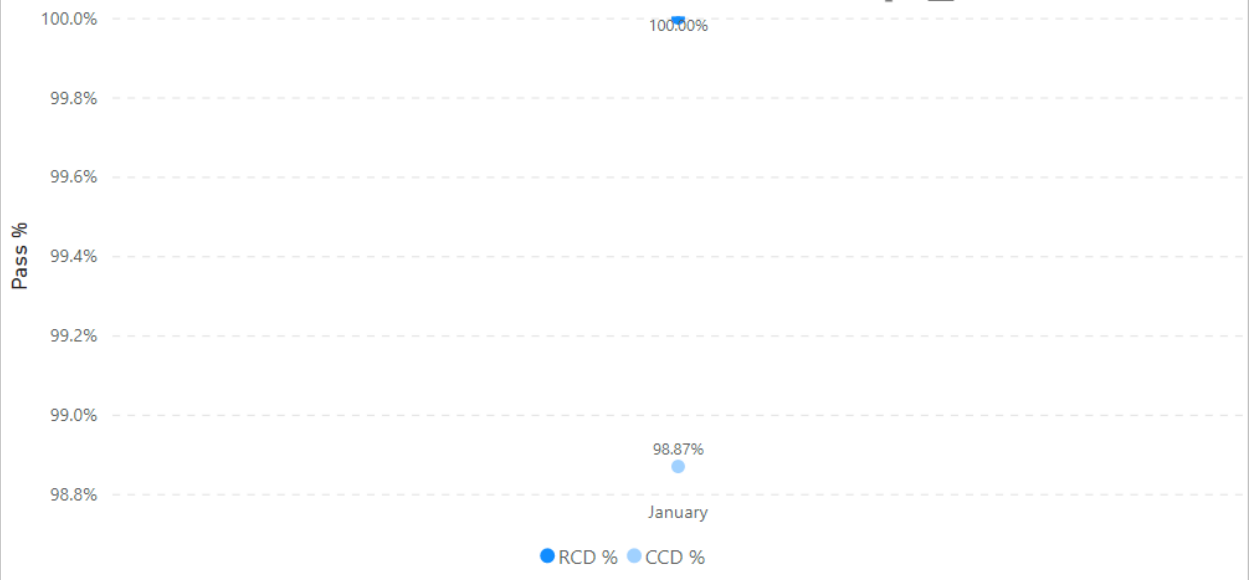
Pass % by District

District	Trees Inspected	RCD Pass %	CCD Pass %
Antelope Valley	195	100.00%	92.31%
Santa Barbara	564	100.00%	100.00%
Valencia	396	100.00%	100.00%
Ventura	110	100.00%	100.00%

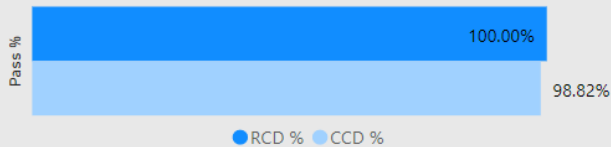
Distribution

Transmission

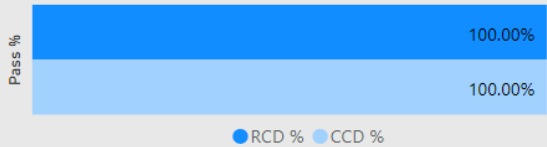
Clearance Pass % by Month



HFRA Clearance Pass %



Non HFRA Clearance Pass %



Total Trees Inspected

1419

Overall RCD Pass %

100.00%

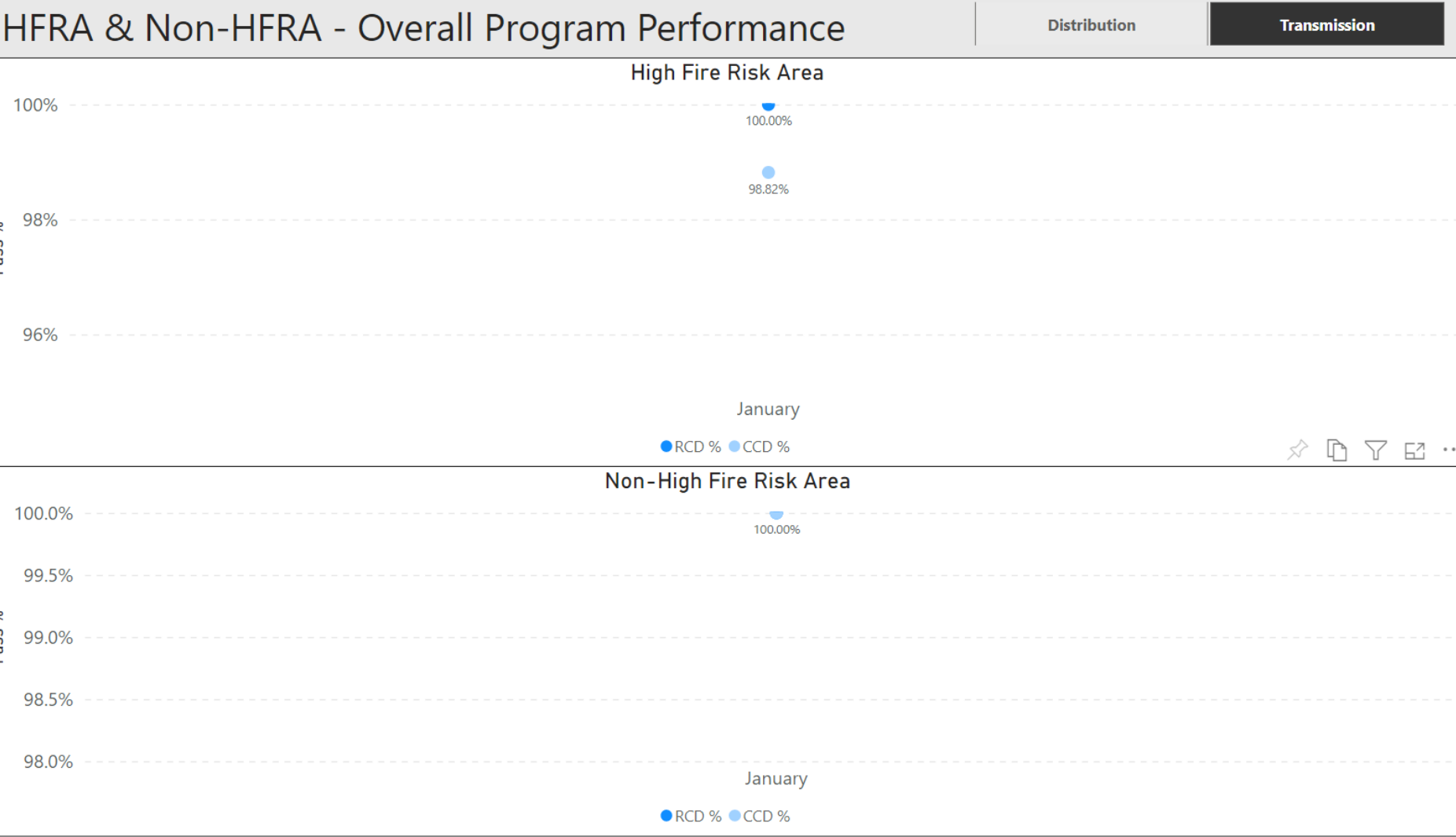
Overall CCD Pass %

98.87%

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'

Transmission HFRA / Non-HFRA RCD & CCD Breakdown

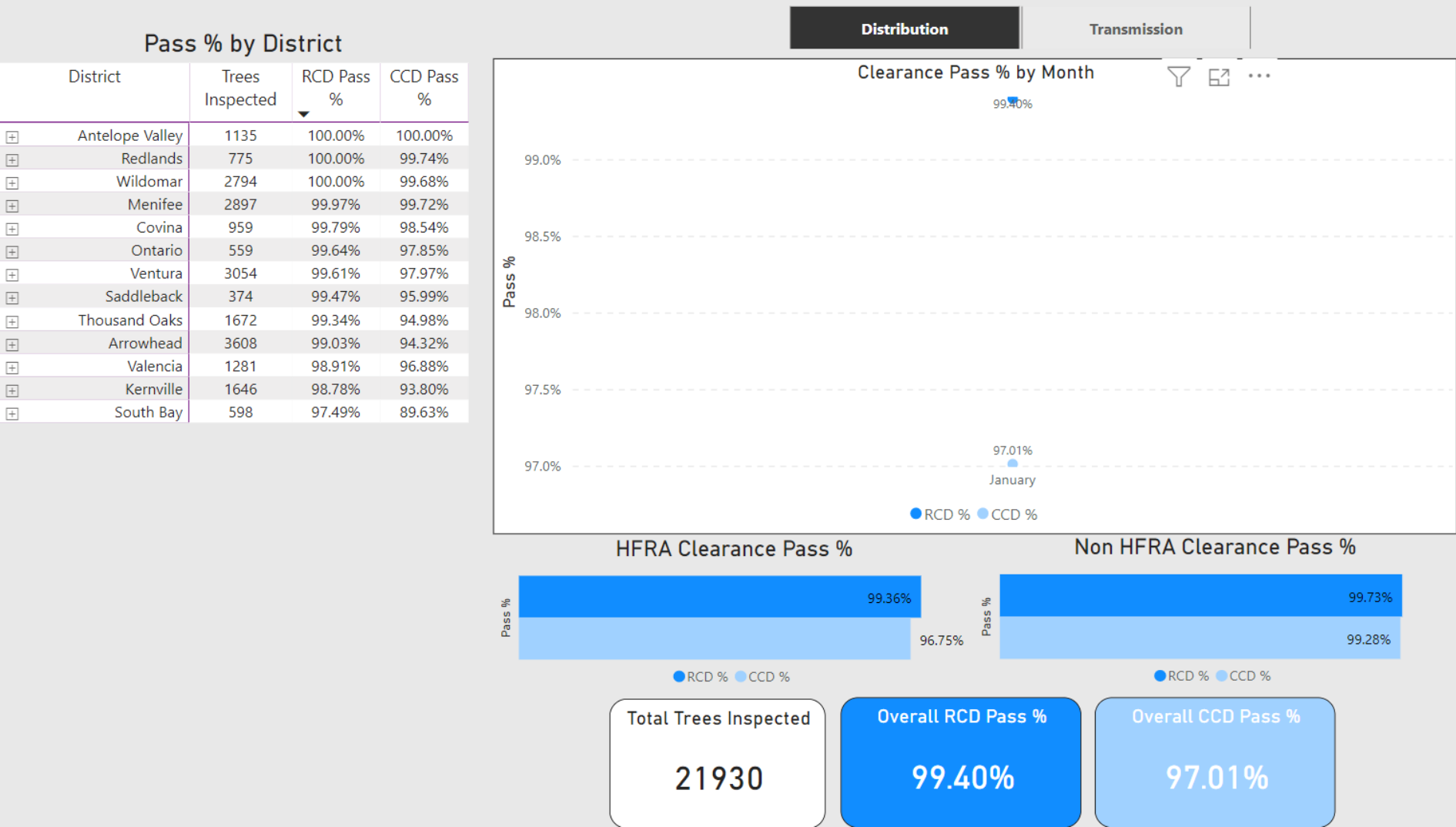


NOTE: RCD and CCD results indicate tree condition clearance at time of QC, not at time of trim

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

YTD VM Performance – Distribution

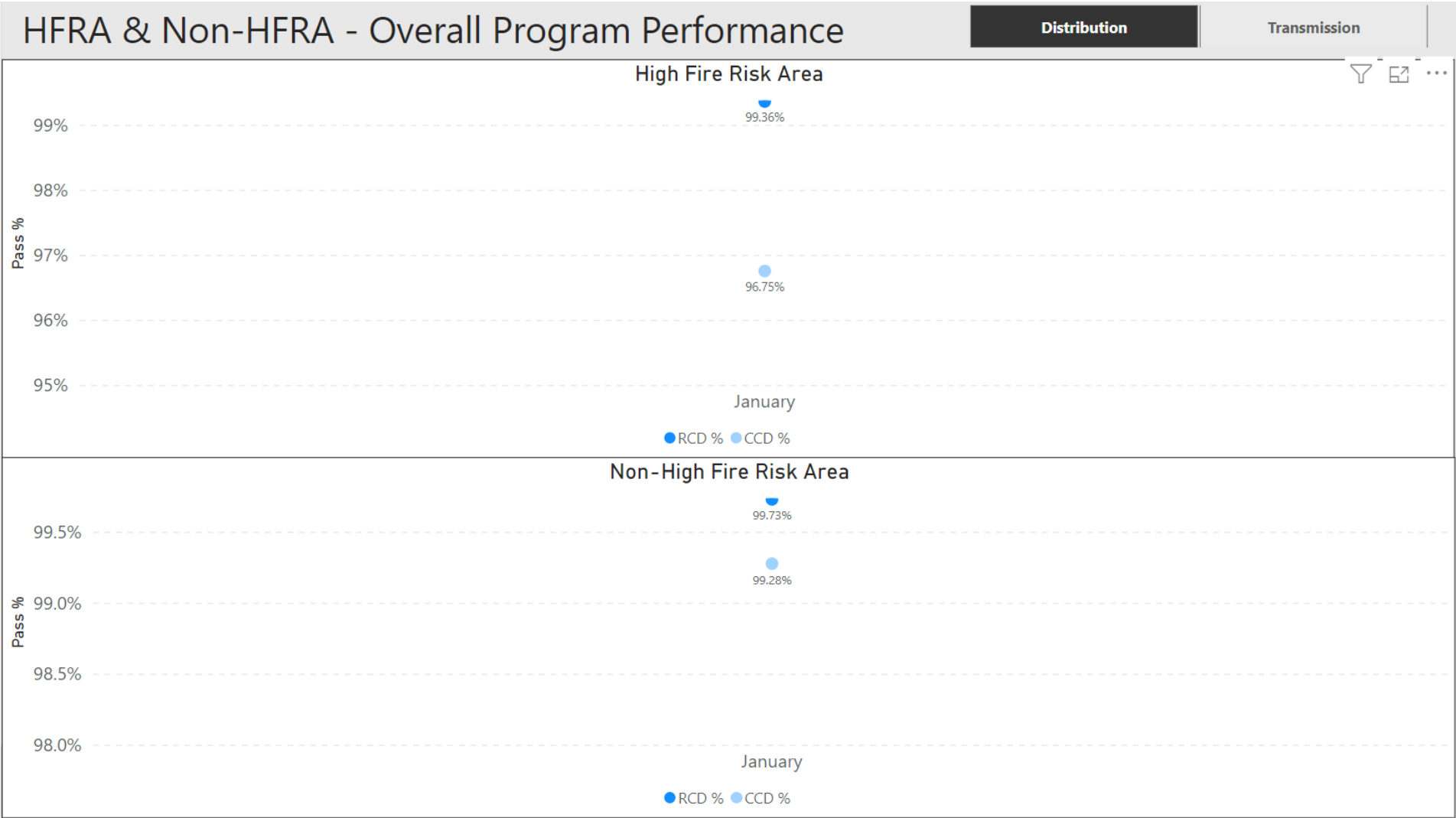
VM Lead: Bill



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

D	Compliance Zone	HFRA	Non-HFRA
	RCD = Regulation Clearance Distance	4'	18"
	CCD = Compliance Clearance Distance (RCD x 1.5)	6'	3'

Distribution HFRA / Non-HFRA RCD & CCD Breakdown



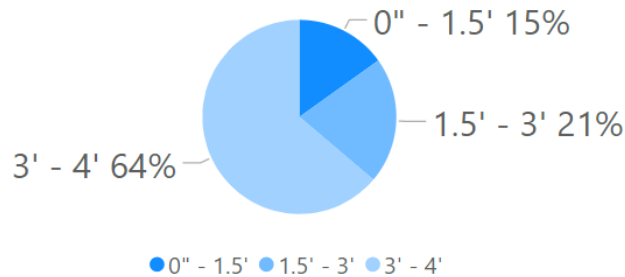
NOTE: RCD and CCD results indicate tree condition clearance at time of QC, not at time of trim

D	Compliance Zone	HFRA	Non-HFRA
	RCD = Regulation Clearance Distance	4'	18"
	CCD = Compliance Clearance Distance (RCD x 1.5)	6'	3'

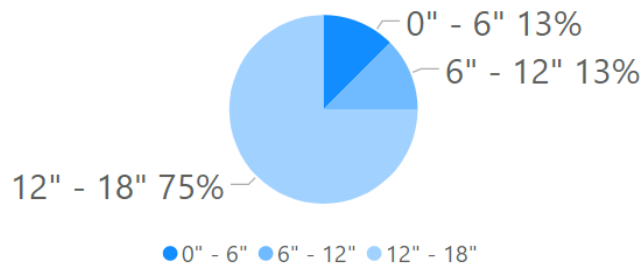
T & D RCD Clearance Breakdown

DISTRIBUTION RCD

HFRA RCD Clearance



Non-HFRA RCD Clearance



Distribution Trees Inspected

21833

Distribution RCD's Found

130

Distribution RCD Pass %

99.40%

Transmission RCD Pass %

100.00%

Transmission RCD's Found

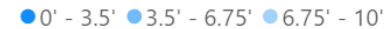
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Transmission Trees Inspected

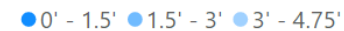
1419

TRANSMISSION RCD

HFRA RCD Clearance



Non-HFRA RCD Clearance



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

2021 RCD Overall Performance (Pruning) – Monthly & YTD

Pruning Contractor RCD Performance by Month		
DVMP/TVMP		January
☐	Transmission	100.00%
	Davey Tree Experts	100.00%
	Mowbrays Tree Service	100.00%
	Utility Tree Service	100.00%
☐	Distribution	99.63%
	Rolling Green	99.77%
	Mowbrays Tree Service	99.74%
	Utility Tree Service	99.39%
	Arborworks	99.18%
	Davey Tree Experts	98.34%
	Total	99.65%

Total Trees Inspected
15207

Overall RCD Pass %
99.65%

Overall CCD Pass %
97.44%

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

2021 RCD Overall Performance (Inspection) – Monthly & YTD

Inspection Contractor RCD Performance by Month

DVMP/TVMP	January
<div>☰</div> Transmission	100.00%
ACRT	100.00%
Davey	100.00%
UPE	100.00%
<div>☰</div> Distribution	99.59%
CNUC	99.79%
UPE	99.39%
ACRT	99.17%
Davey	98.34%
Total	99.62%

Total Trees Inspected

15225

Overall RCD Pass %

99.62%

Overall CCD Pass %

97.35%

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

2020 YTD VM Performance – T & D 80%/20%

VM Lead: Bill

Routine & Cyclebuster 2020 QC Results

Distribution

Transmission

Fire Risk Area

All

Tree Contractor

All

Inspection Contractor

All

Total Trees Inspected
283329

Overall RCD Pass %
98.69%

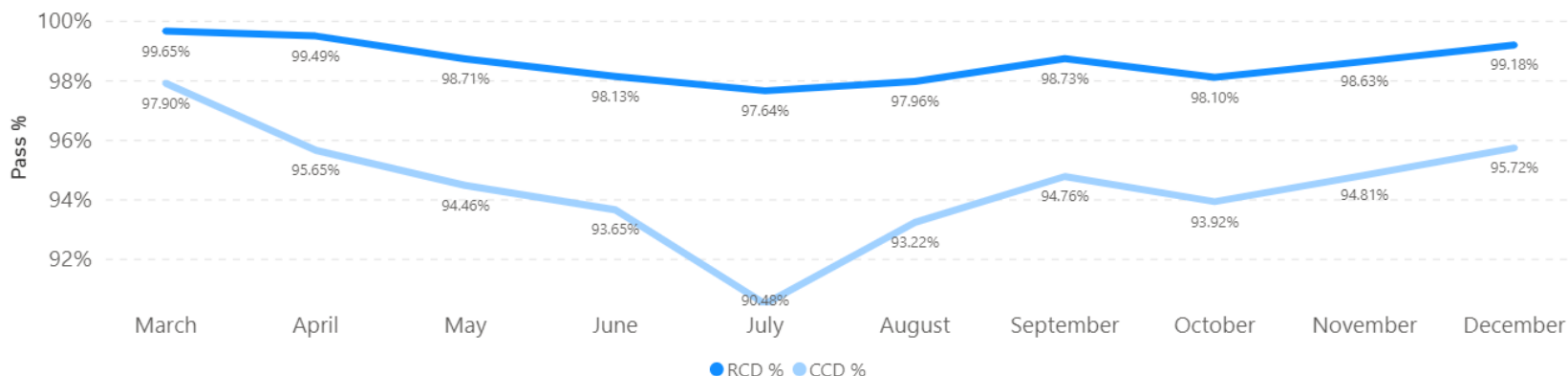
Overall CCD Pass %
94.50%

Total Trees Inspected
7652

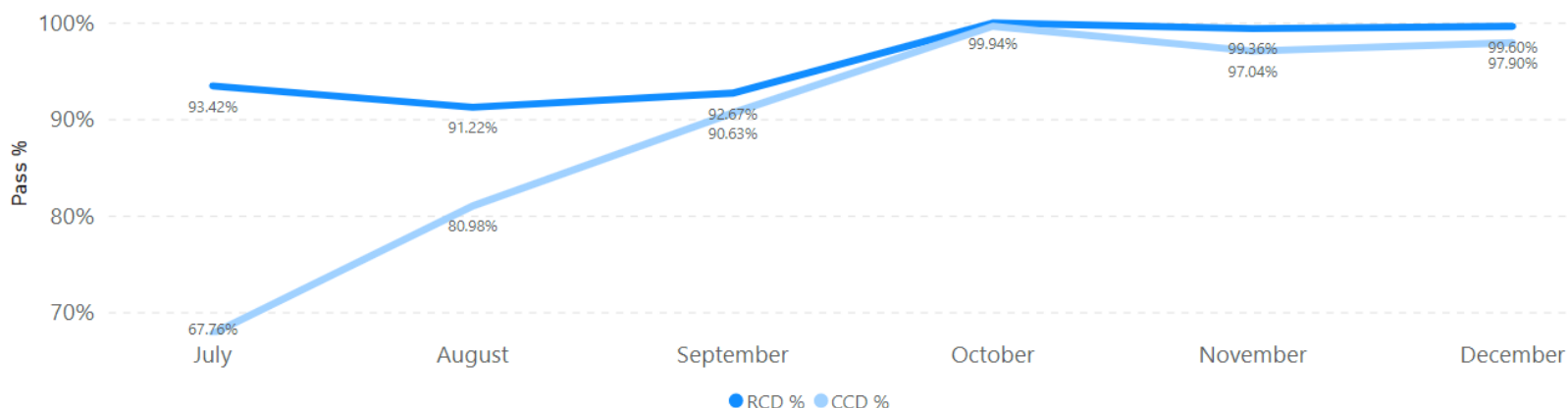
Overall RCD Pass %
96.26%

Overall CCD Pass %
91.70%

Routine QC (1-3 months post-trimming)



Cyclebuster QC (greater than 3 months post-trimming)

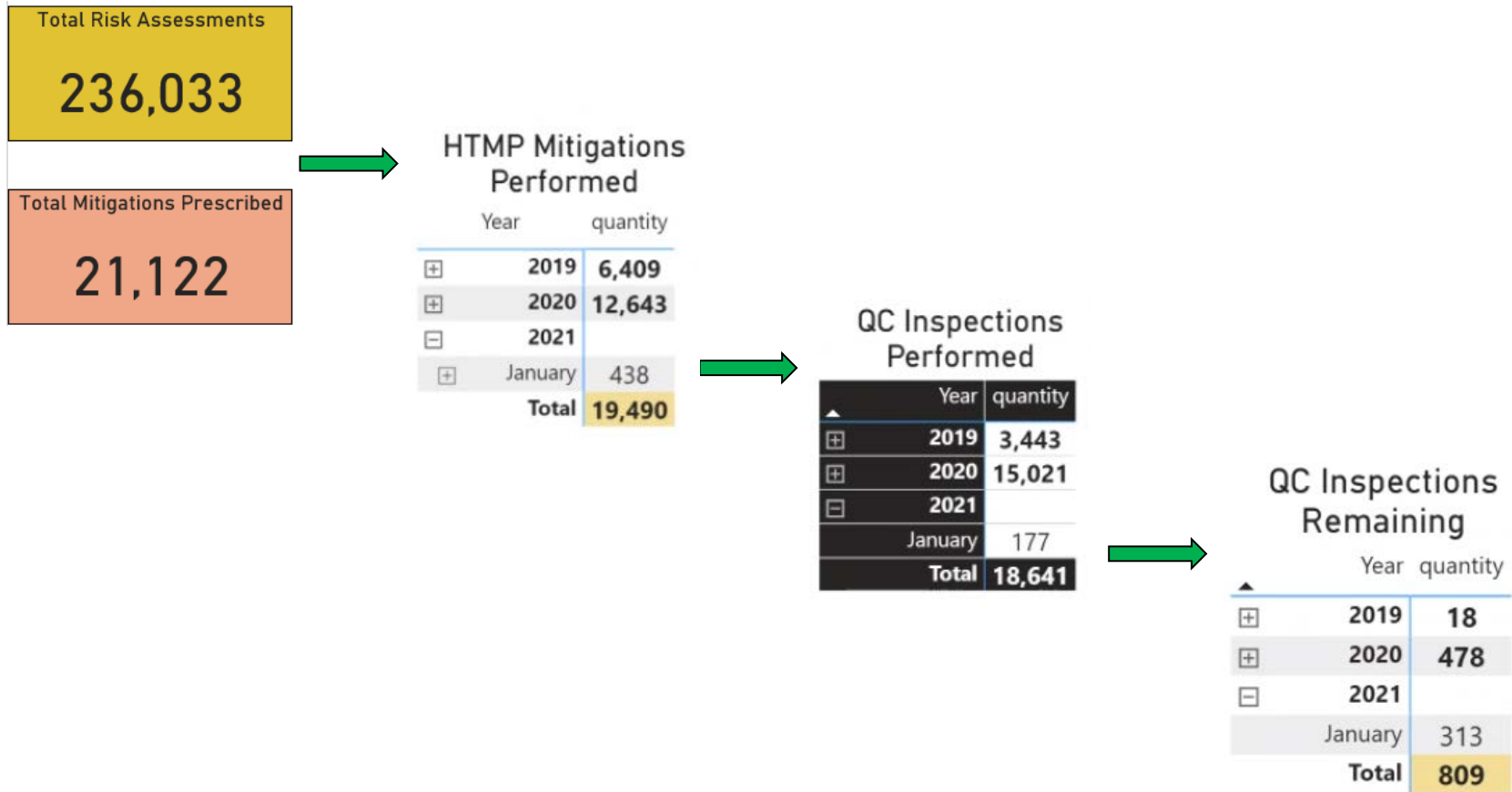


NOTE: RCD & CCD results indicate tree condition clearance at time of QC, not at time of trim

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	CCD = Compliance Clearance Distance (RCD x 1.5)	15'		CCD = Compliance Clearance Distance (RCD x 1.5)	6'	3'

Quality Control for HTMP

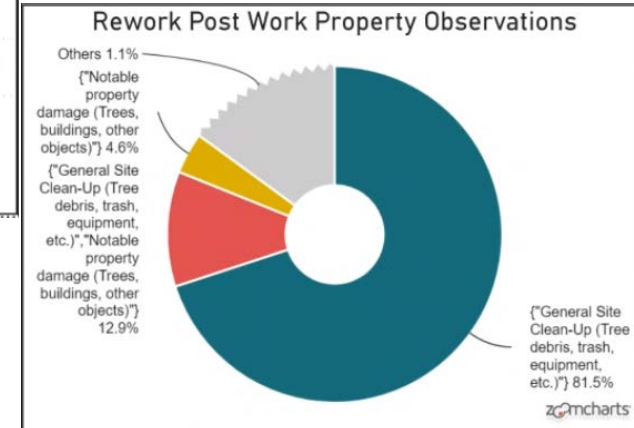
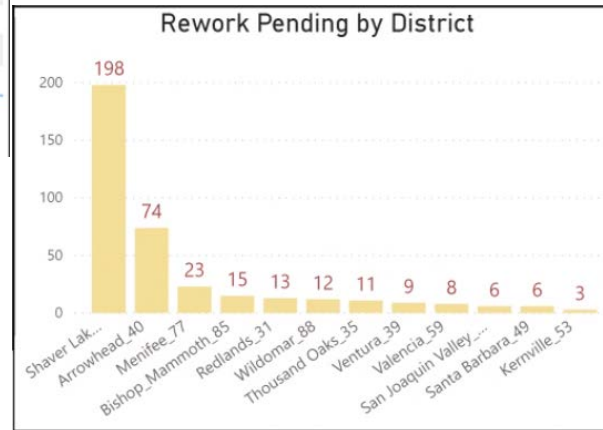
HTMP – QC Mitigation Inspections (1/1/19 to 1/31/21)



HTMP – QC Results of Mitigations (1/1/19 to 1/31/21)

Total Trees QC'd
18,641
Rework Identified by QC
1,473
Rework Completed
1,095
Rework Pending
378

Assigned Contractor	quantity
	23
ArborWorks	15
Core Tree Care	8
Mario's Tree Service	21
Mowbray's Tree Service	288
Utility Tree Service	22
Wilhelm	1
Total	378



QC Actions being taken to address rework issues:

QC is working with Supply chain to incorporate a Conformance Rate for mitigations in 2021 Scorecards

HTMP – QC of Risk Assessment Quality

- QC is targeting to perform 14,000 risk assessments annually (99/1%)
- Between 1/1/21 and 1/31/21, 22 QC assessments performed
- YTD – average risk score was 43.18; QC risk score was 35.36
 - Risk Scores ≥ 50 are classified as P2s and require mitigation
 - Risk Scores < 50 are P3s and require no mitigation
 - QC primarily targets risk scores between 35 – 49
- YTD 19 P3 RAs were selected for QC
 - 3 of 19 (16%) RAs were risk scored by QC and scored as a P2
 - 3 of the 3 (100%) had a risk score delta exceeding 15 points
- YTD 3 P2 RAs were selected for QC
 - 3 of 3 (100%) RAs were risk scored by QC and scored as a P3
 - 3 of the 3 (100%) had a risk score delta exceeding 15 points
- In 2021, for any P3s where QC identifies a final risk score of ≥ 55 , the tree assessment is returned to the HTMP assessor for re-assessment and potential remediation. In 2020, P3 risk score deltas > 15 were provided for awareness and coaching.

Compliance – Other

ASD Audits

- ASD Audit Y20-53070 Follow-up to 2019 VM Field Audit
- 4 Observations Issued to VM

Audit #	Observation #	Details	Due Date	Status
Y20-53070	1	Line Clearance and Data Issues	5/28/2021	On Track
	2	Improve DRI Program Documentation	N/A	Complete: UVM-18 Issued
	3	Pole Brushing Program Documentation is unclear and requires clarification, including defining program criteria and exceptions	5/28/2021	On Track
	4	Pole Brushing Program requires a process for ensuring regular maintenance of brushing clearance	5/28/2021	On Track

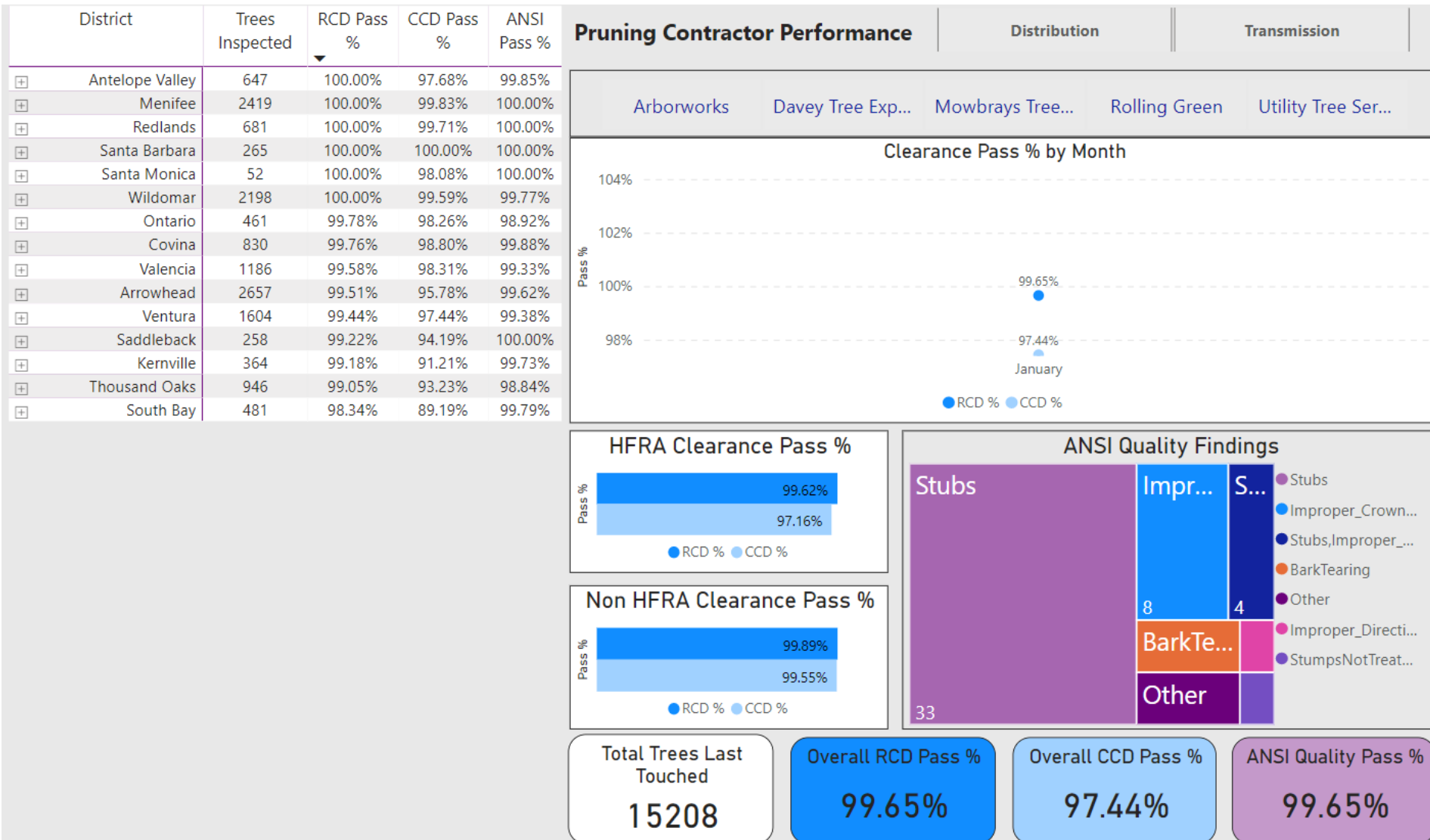
Data Requests

1 Data Request received from CalAdvocates: (CalAdvocates-SCE-2021 WMP-01A)

- Related to 2021 WMP
- 13 Questions; 1 Question pertaining to VM
- Miles of Enhanced VM versus Routine VM in the areas of:
 - Non-HFTD
 - HFTD Tier 2
 - HFTD Tier 3

APPENDIX – Contractor Performance Trending

Pruning Contractor – Overall Performance (T&D)



Pruning Contractor – Overall Performance (Transmission)

District	Trees Inspected	RCD Pass %	CCD Pass %	ANSI Pass %
Antelope Valley	184	100.00%	91.85%	100.00%
Santa Barbara	265	100.00%	100.00%	100.00%
Santa Monica	52	100.00%	98.08%	100.00%
Valencia	314	100.00%	100.00%	98.73%
Ventura	48	100.00%	100.00%	100.00%

Pruning Contractor Performance

Distribution

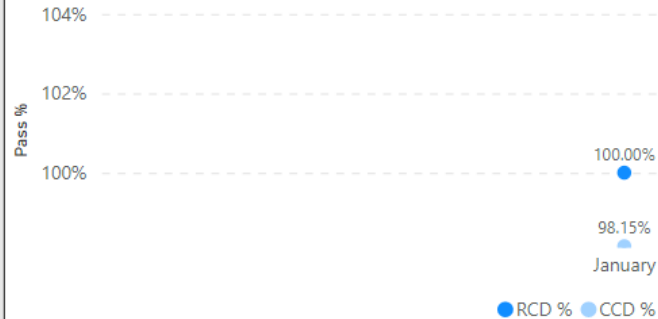
Transmission

Davey Tree Experts

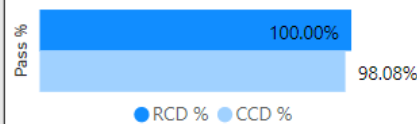
Mowbrays Tree Service

Utility Tree Service

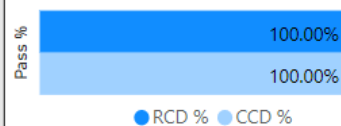
Clearance Pass % by Month



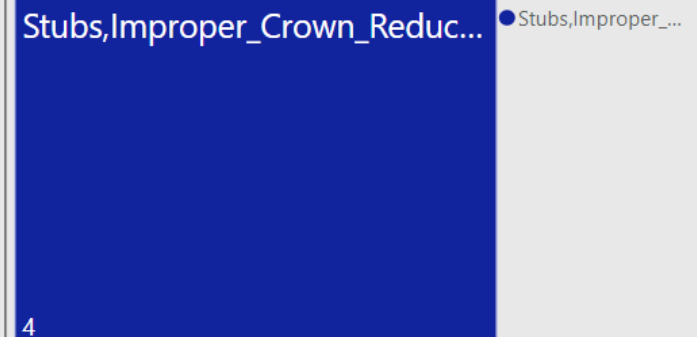
HFRA Clearance Pass %



Non HFRA Clearance Pass %



ANSI Quality Findings



Total Trees Last Touched

867

Overall RCD Pass %

100.00%

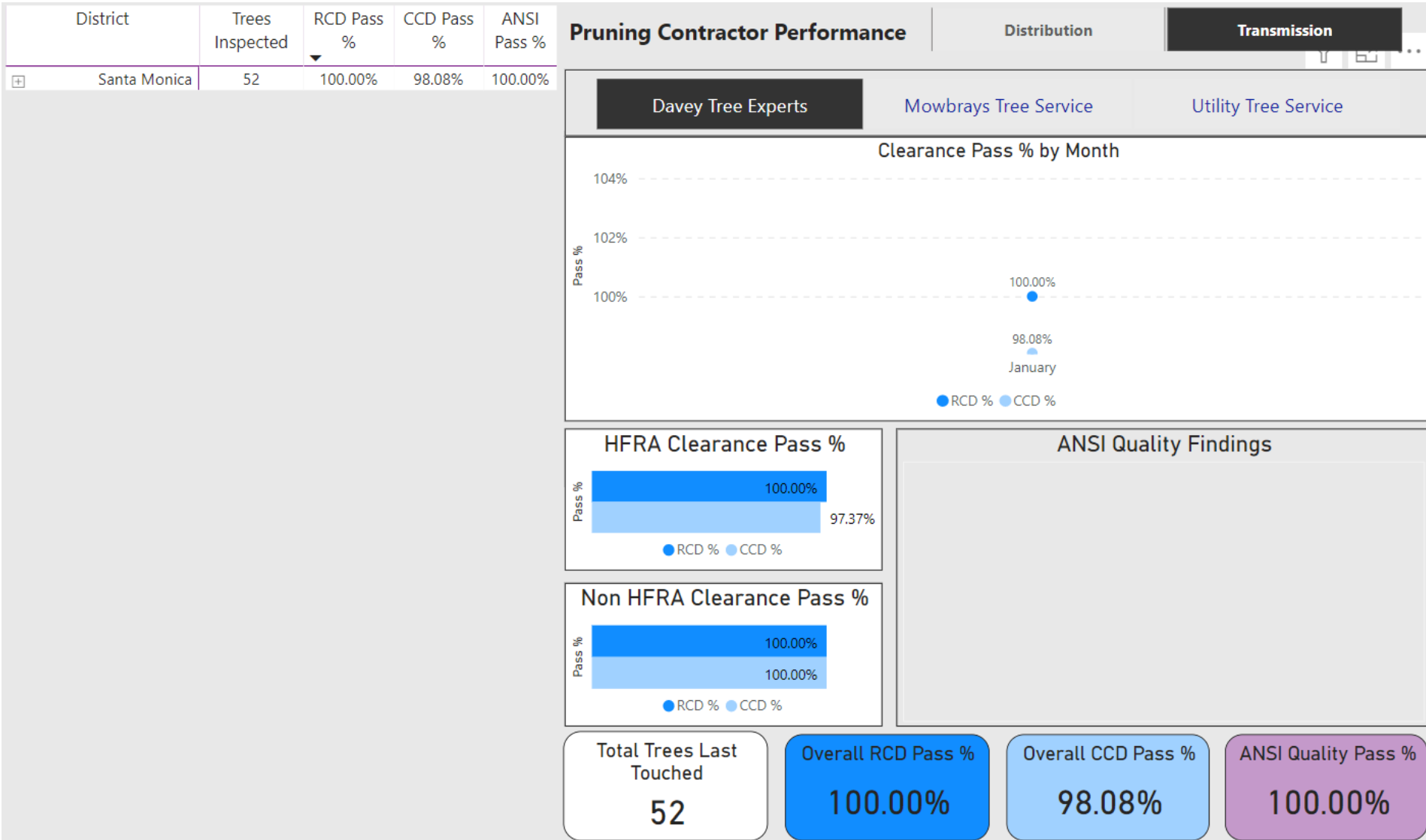
Overall CCD Pass %

98.15%

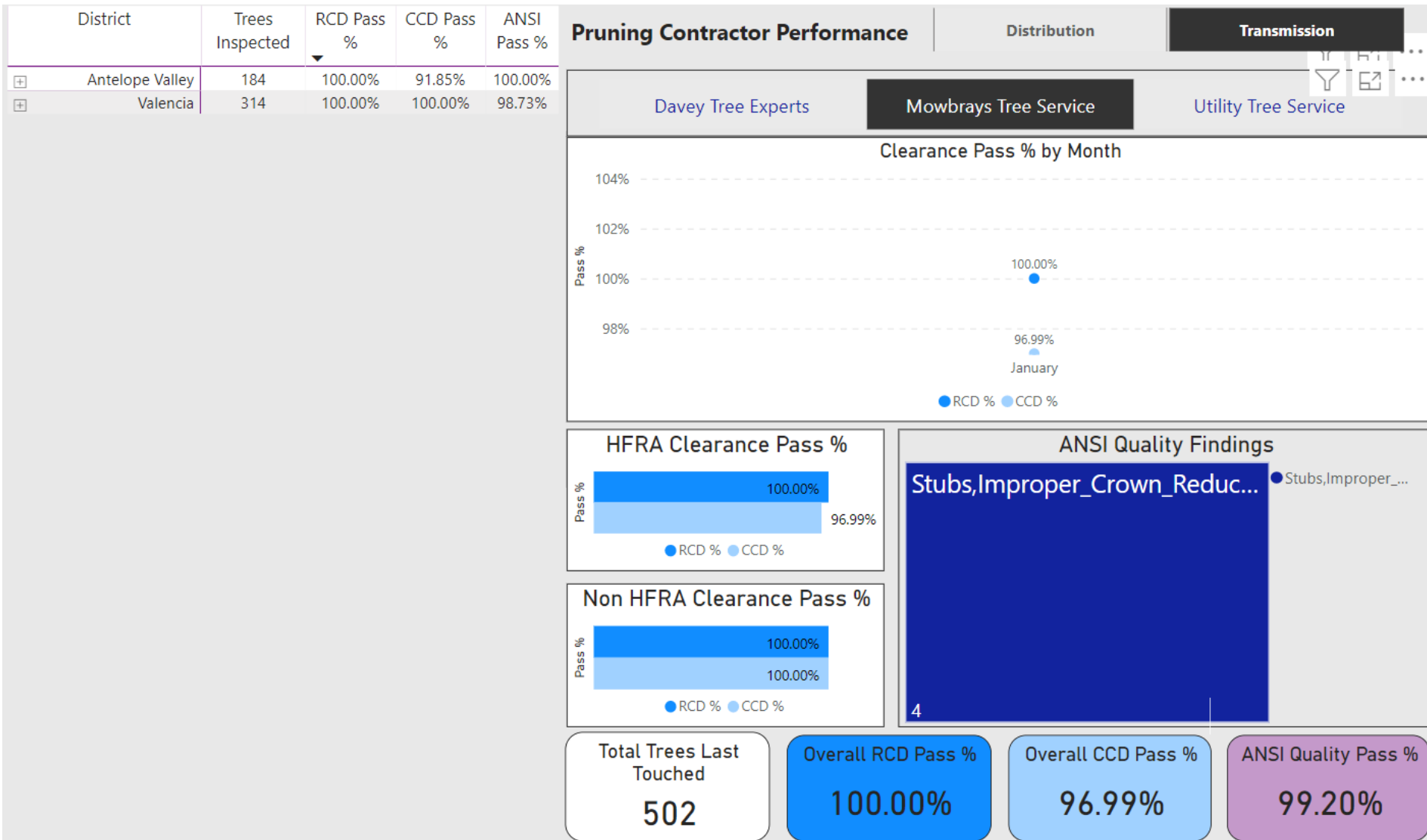
ANSI Quality Pass %

99.54%

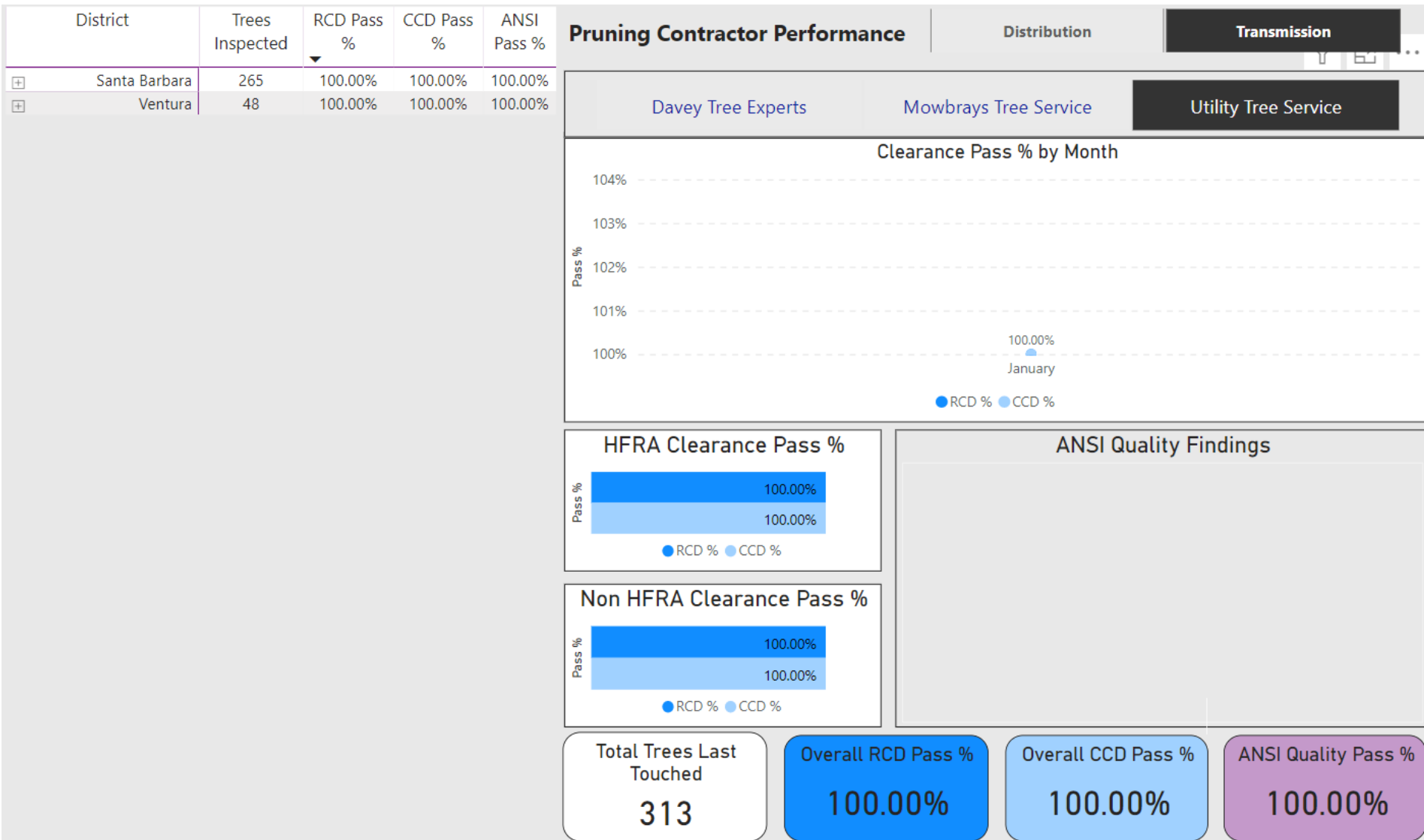
Pruning Contractor – Davey Tree Experts (Transmission)



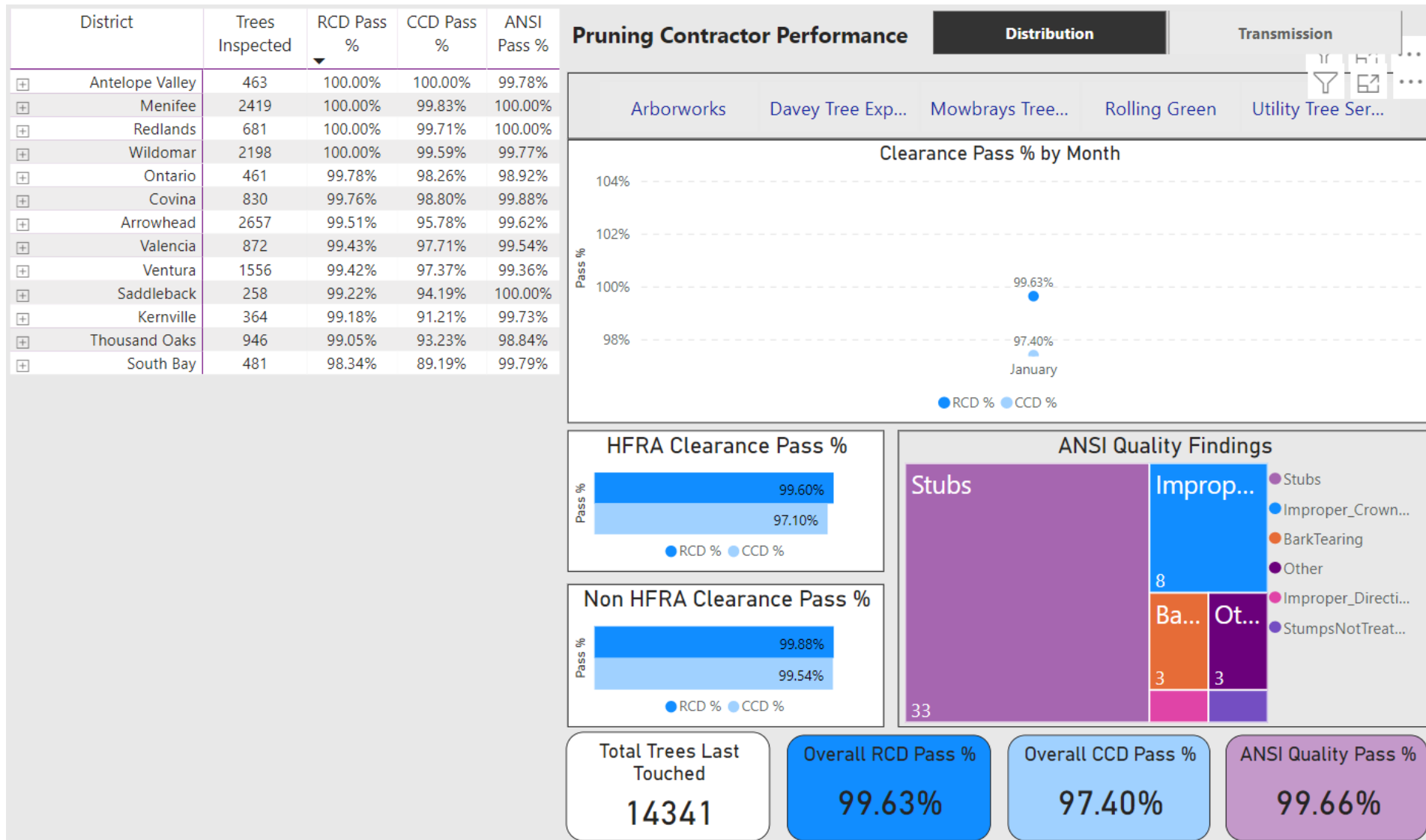
Pruning Contractor – Mowbrays Tree Service (Transmission)



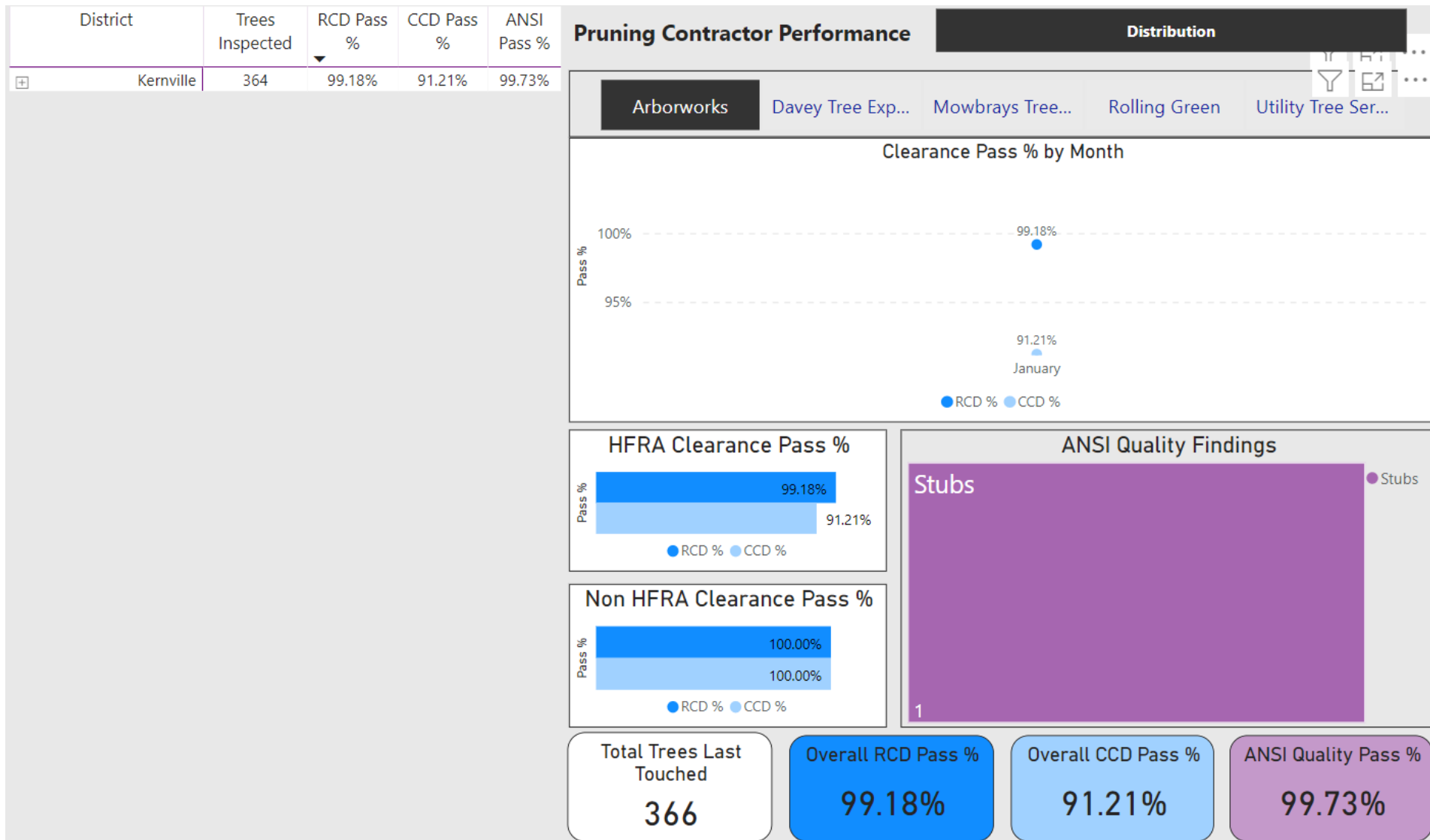
Pruning Contractor – Utility Tree Service (Transmission)



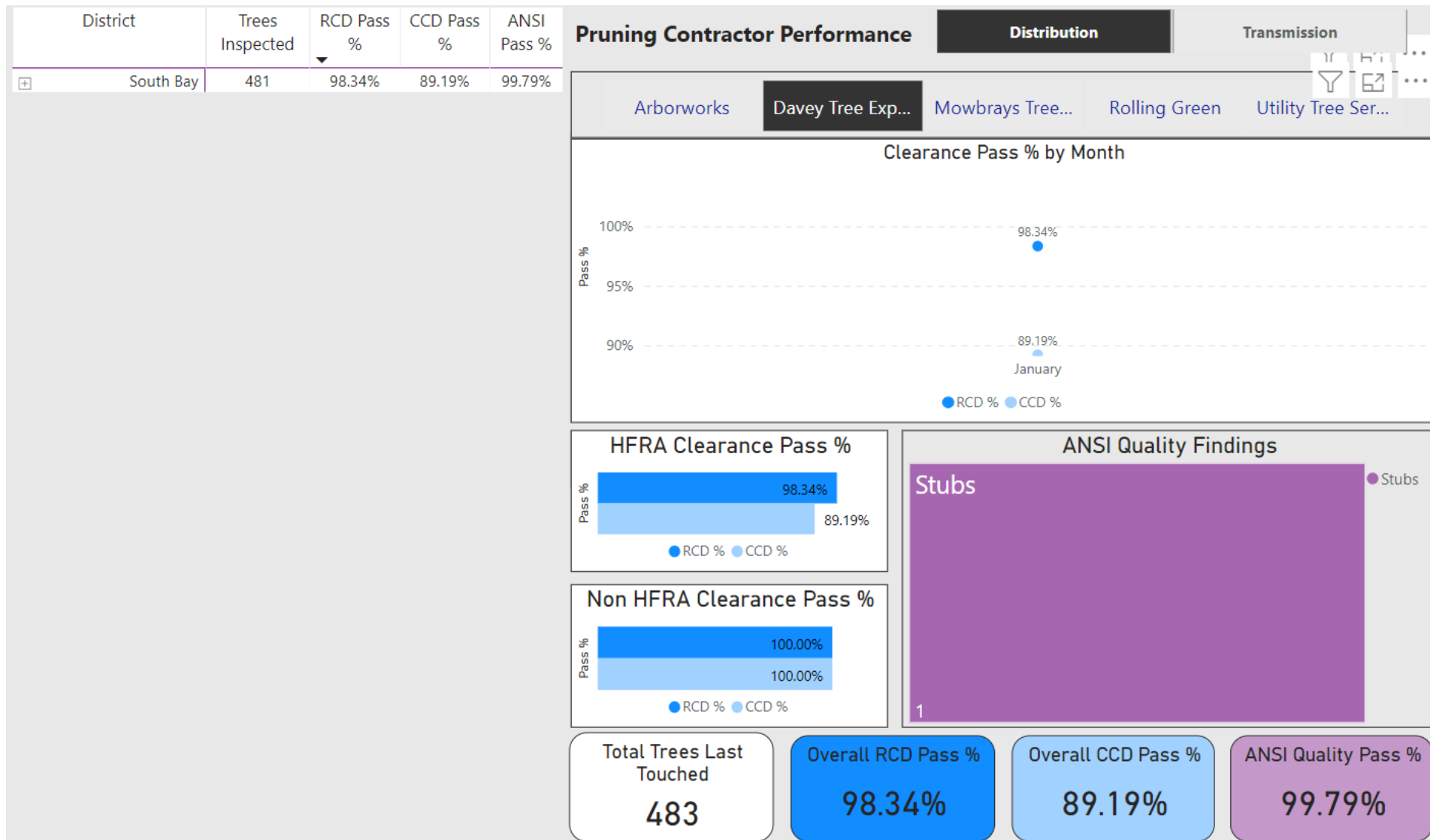
Pruning Contractor – Overall Performance (Distribution)



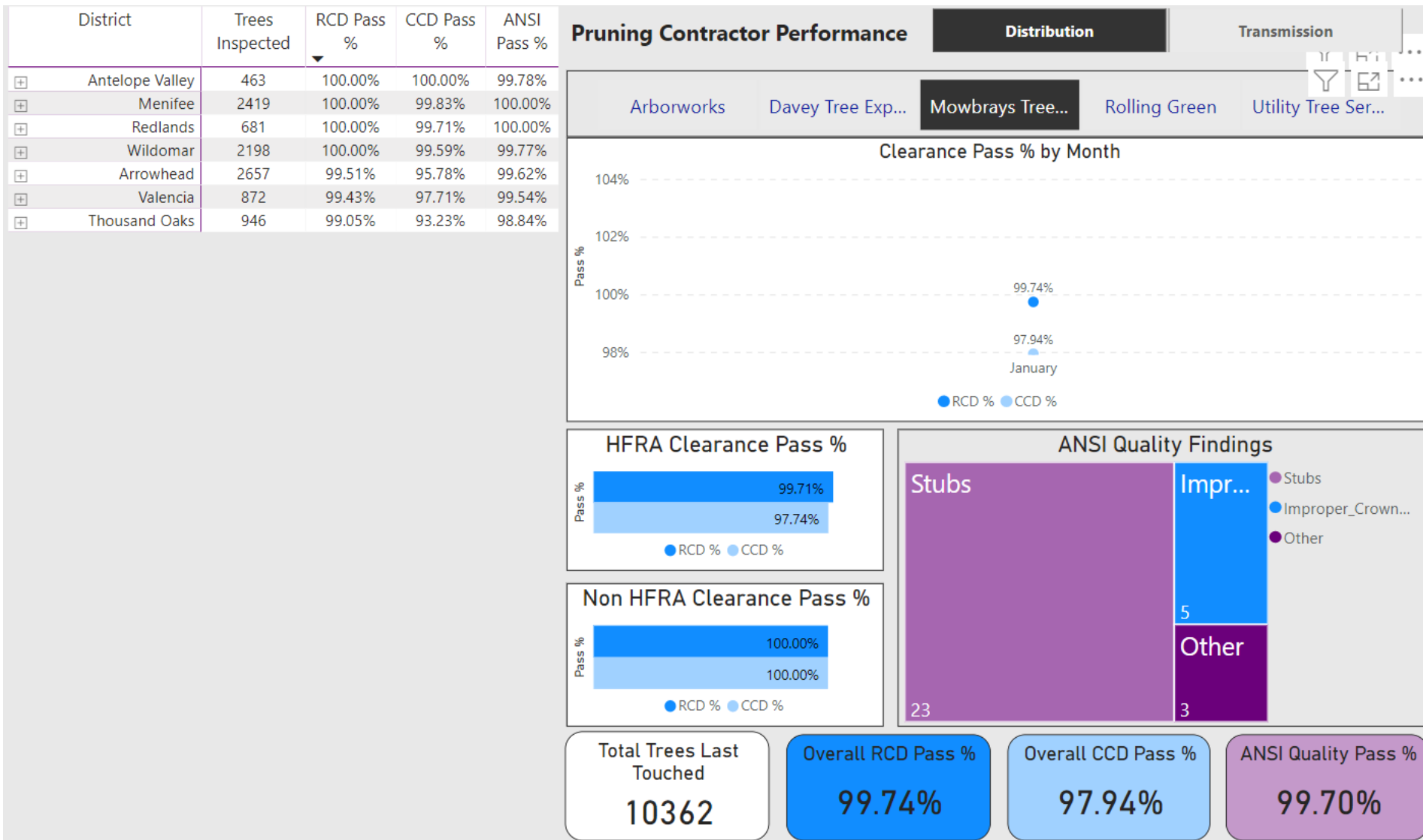
Pruning Contractor – Arborworks (Distribution)



Pruning Contractor – Davey Tree Experts (Distribution)



Pruning Contractor – Mowbrays Tree Service (Distribution)



Pruning Contractor – Rolling Green (Distribution)

District	Trees Inspected	RCD Pass %	CCD Pass %	ANSI Pass %
Ontario	461	99.78%	98.26%	98.92%
Covina	830	99.76%	98.80%	99.88%

Pruning Contractor Performance

Distribution

Arborworks

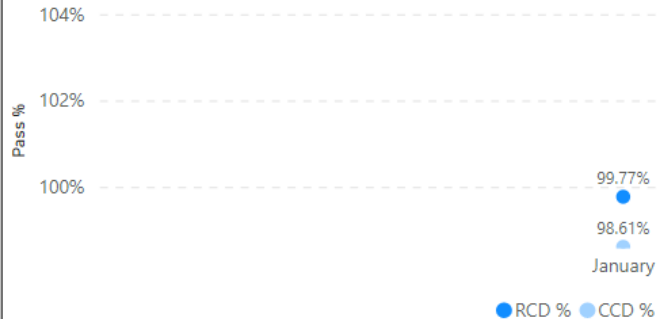
Davey Tree Exp...

Mowbrays Tree...

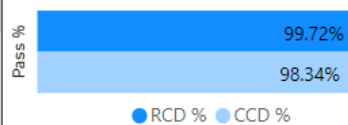
Rolling Green

Utility Tree Ser...

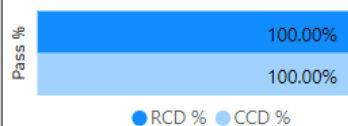
Clearance Pass % by Month



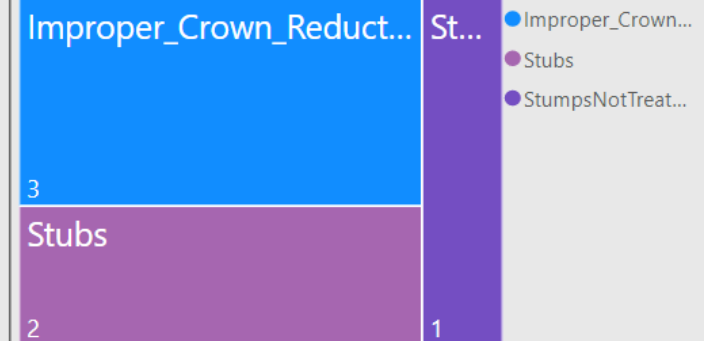
HFRA Clearance Pass %



Non HFRA Clearance Pass %



ANSI Quality Findings



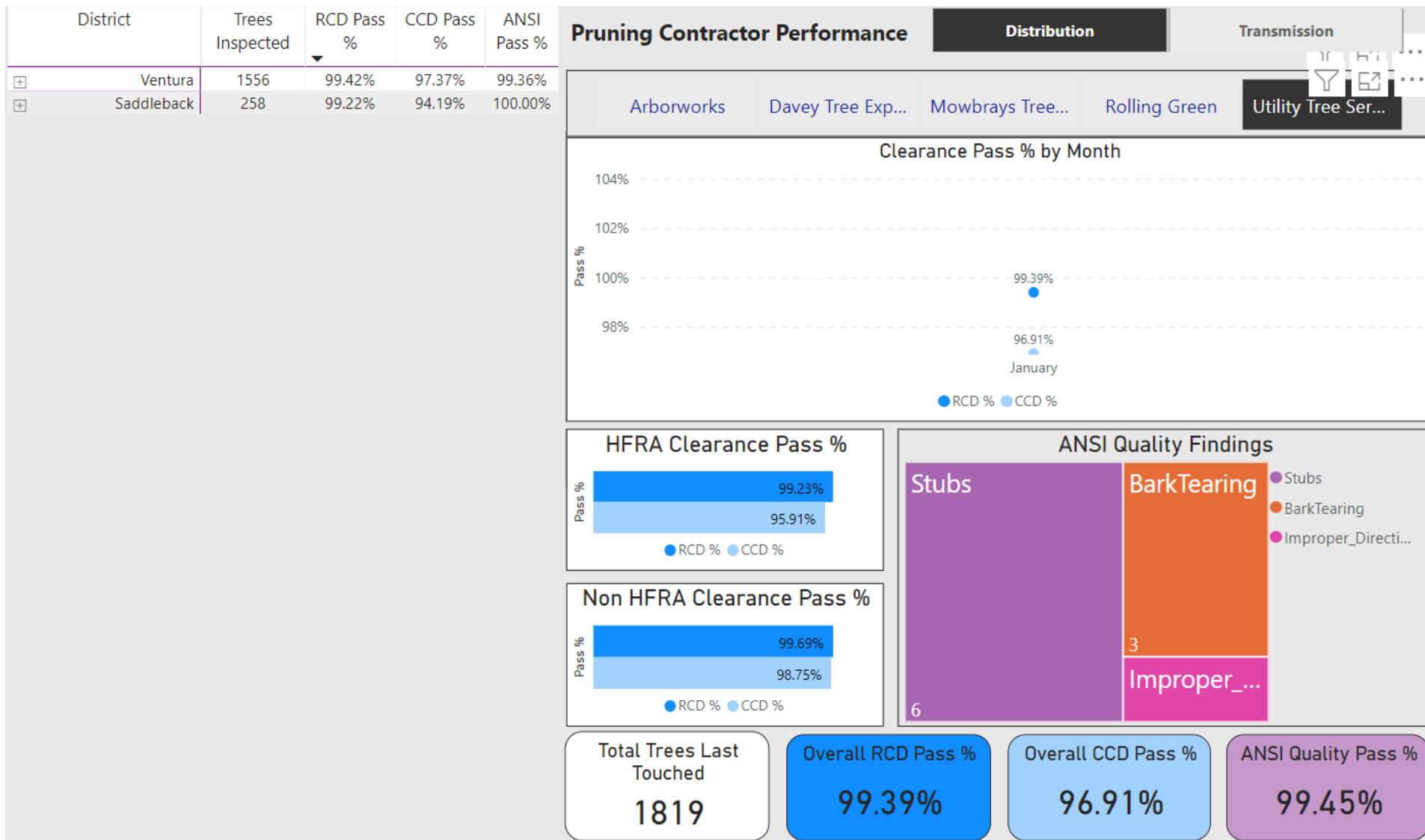
Total Trees Last Touched
1311

Overall RCD Pass %
99.77%

Overall CCD Pass %
98.61%

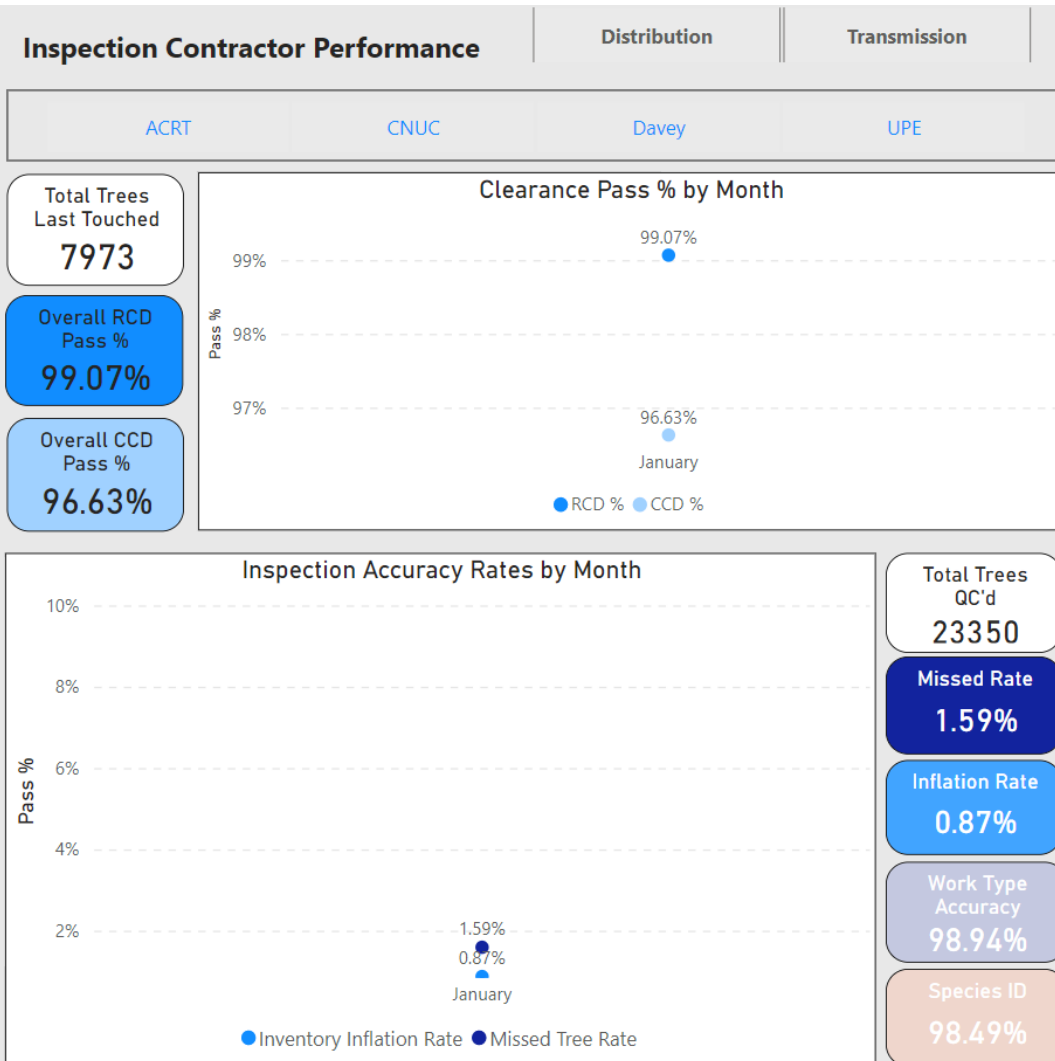
ANSI Quality Pass %
99.54%

Pruning Contractor – Utility Tree Service (Distribution)



Inspection Contractor – Overall Performance (T&D)

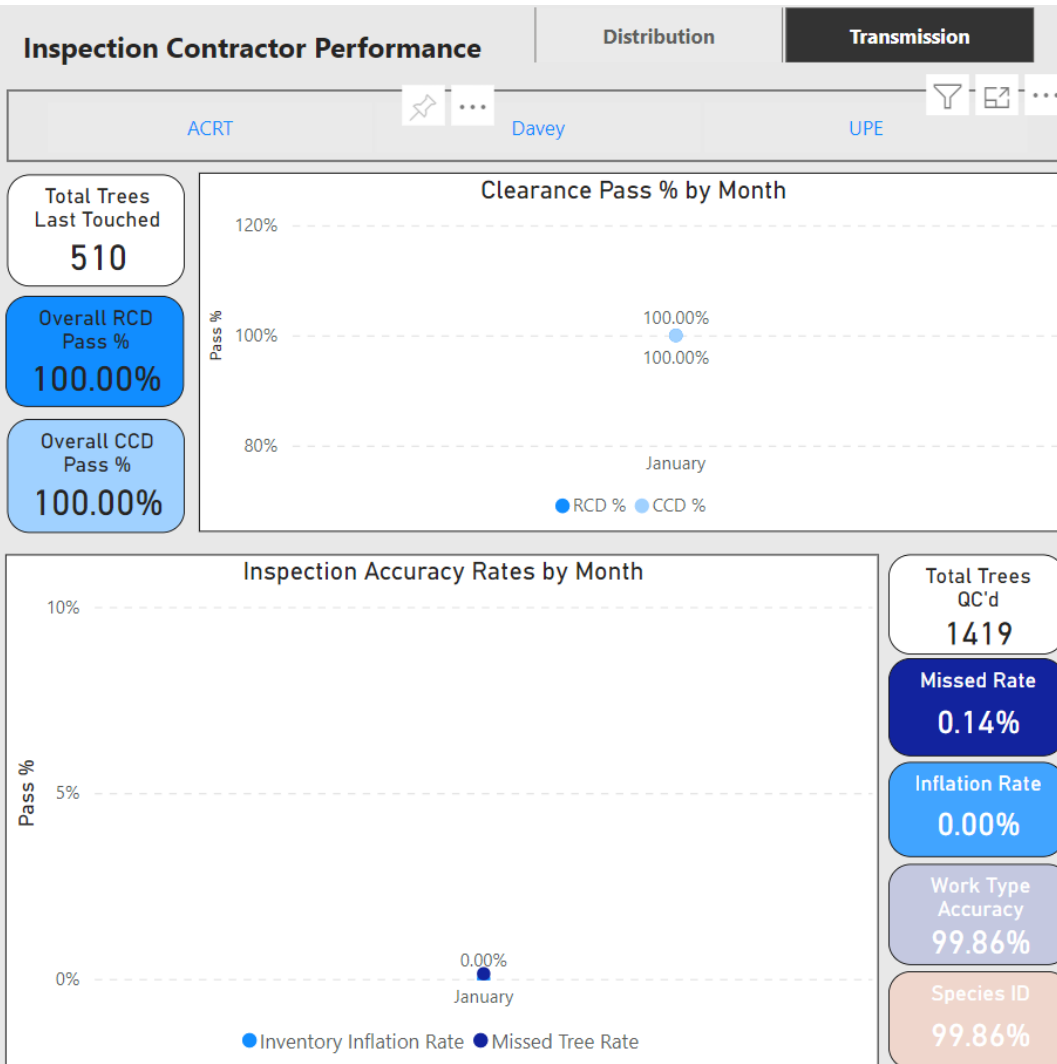
District	Trees Inspected	Trees	%	Tree Qty	Tree Rate
Antelope Valley	672	0	100.00%	8	1.19%
Covina	129	0	100.00%	7	5.43%
Menifee	435	0	100.00%	5	1.15%
Saddleback	112	0	100.00%	0	0.00%
Santa Barbara	261	0	100.00%	0	0.00%
Wildomar	596	0	100.00%	0	0.00%
Ventura	1389	3	99.78%	10	0.72%
Thousand Oaks	650	2	99.69%	10	1.54%
Kernville	1266	13	98.97%	124	9.79%
Valencia	358	5	98.60%	17	4.75%
South Bay	120	2	98.33%	2	1.67%
Arrowhead	950	22	97.68%	90	9.47%



- 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 – YTD Missed Tree Trend (Transmission)

District	Trees Inspected	RCD Failed Trees	RCD Pass %	Missed Tree Qty	Missed Tree Rate	
+	Santa Barbara	261	0	100.00%	0	0.00%
+	Valencia	128	0	100.00%	0	0.00%



- 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	
+	Santa Barbara	261	0	100.00%	0	0.00%

Inspection Contractor Performance

Distribution

Transmission

ACRT

Davey

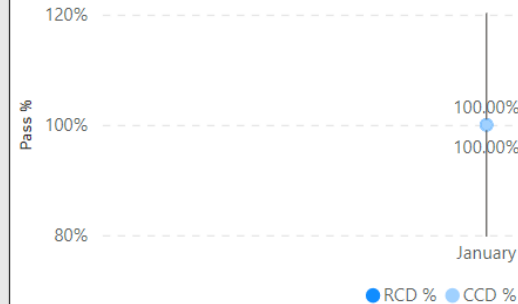
UPE

Total Trees Last Touched
333

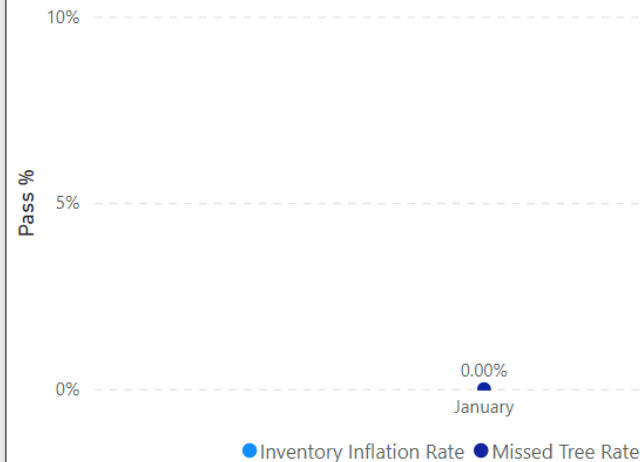
Overall RCD Pass %
100.00%

Overall CCD Pass %
100.00%

Clearance Pass % by Month



Inspection Accuracy Rates by Month



Total Trees QC'd
684

Missed Rate
0.00%

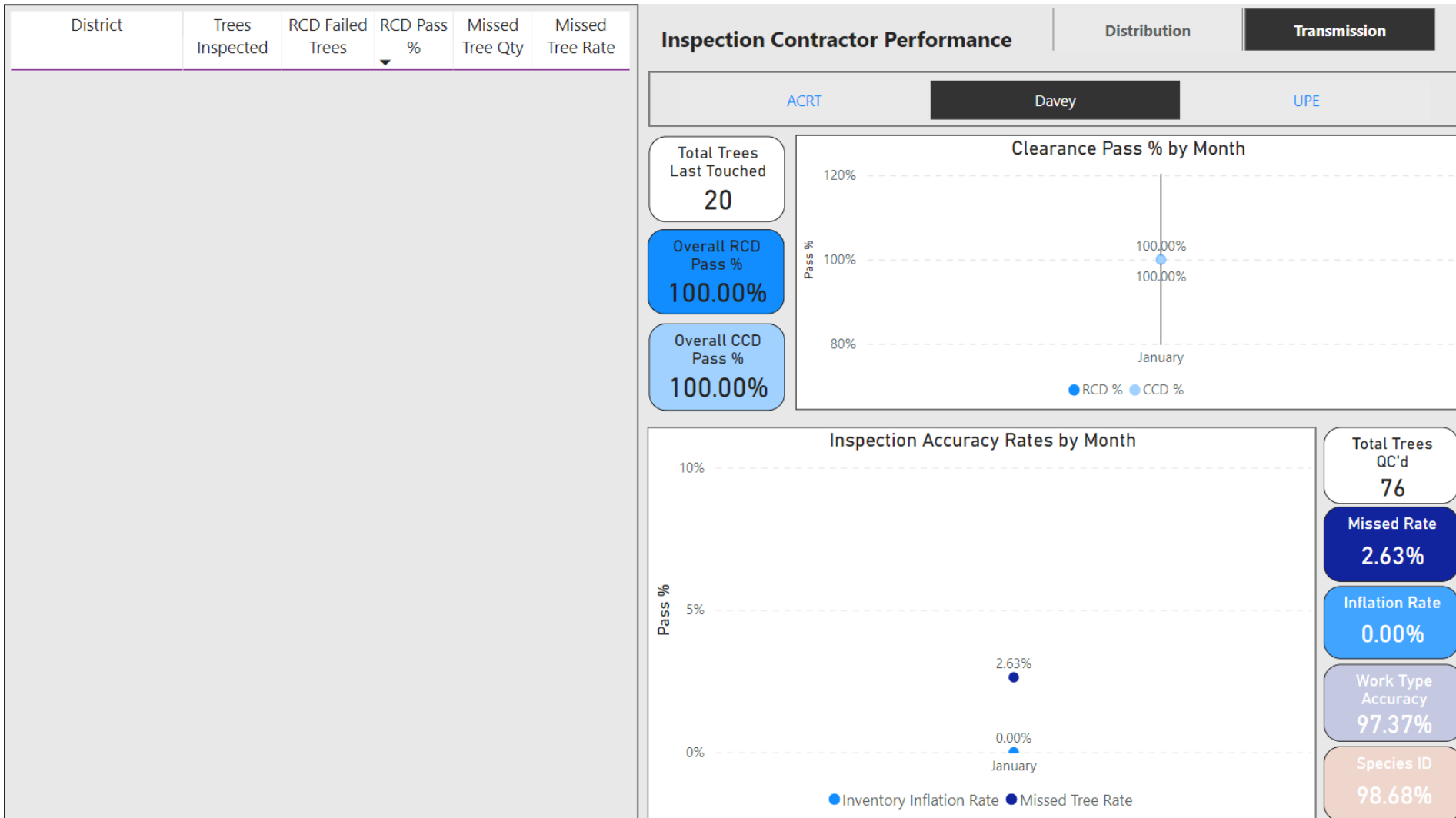
Inflation Rate
0.00%

Work Type Accuracy
100.00%

Species ID
100.00%

- 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)



- 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
Valencia	128	0	100.00%	0	0.00%

Inspection Contractor Performance

Distribution

Transmission

ACRT

Davey

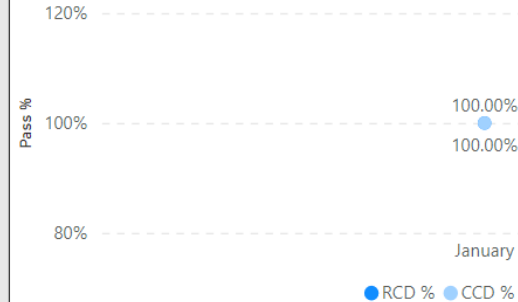
UPE

Total Trees Last Touched
157

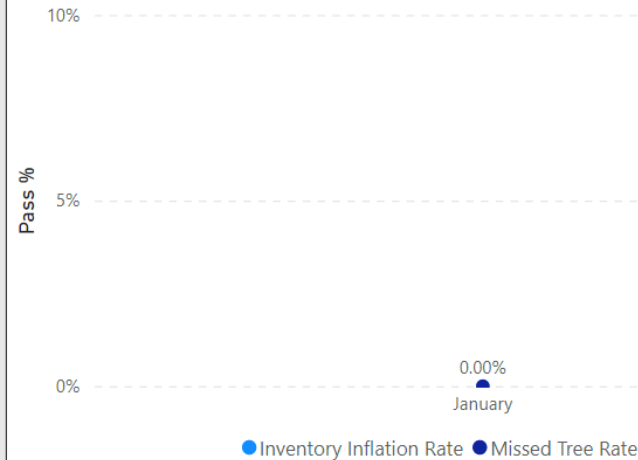
Overall RCD Pass %
100.00%

Overall CCD Pass %
100.00%

Clearance Pass % by Month



Inspection Accuracy Rates by Month



Total Trees QC'd
659

Missed Rate
0.00%

Inflation Rate
0.00%

Work Type Accuracy
100.00%

Species ID
99.85%

- 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
Antelope Valley	672	0	100.00%	8	1.19%
Covina	129	0	100.00%	7	5.43%
Menifee	435	0	100.00%	5	1.15%
Saddleback	112	0	100.00%	0	0.00%
Wildomar	596	0	100.00%	0	0.00%
Ventura	1389	3	99.78%	10	0.72%
Thousand Oaks	650	2	99.69%	10	1.54%
Kernville	1266	13	98.97%	124	9.79%
South Bay	120	2	98.33%	2	1.67%
Valencia	230	5	97.83%	17	7.39%
Arrowhead	950	22	97.68%	90	9.47%

Inspection Contractor Performance

Distribution

Transmission

ACRT

CNUC

Davey

UPE

Total Trees Last Touched

7462

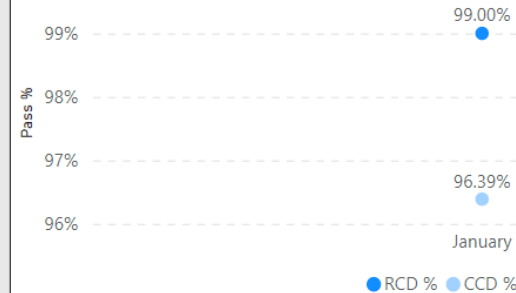
Overall RCD Pass %

99.00%

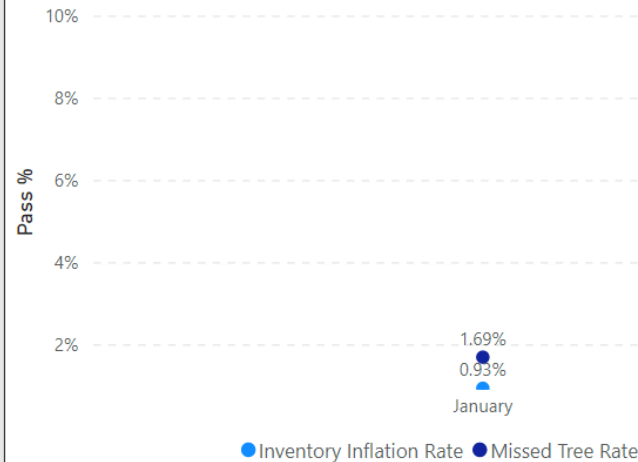
Overall CCD Pass %

96.39%

Clearance Pass % by Month



Inspection Accuracy Rates by Month



Total Trees QC'd

21930

Missed Rate

1.69%

Inflation Rate

0.93%

Work Type Accuracy

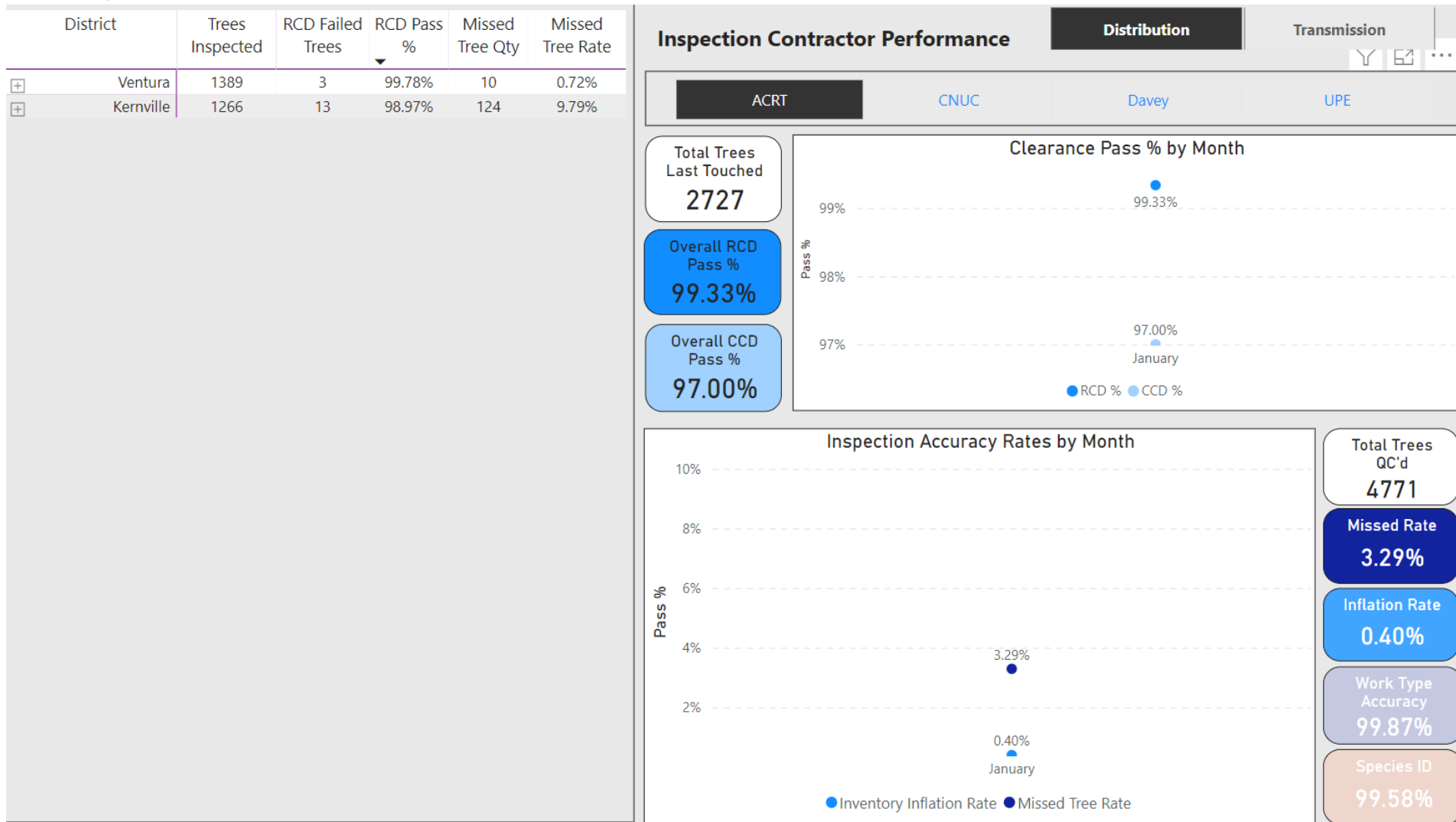
98.88%

Species ID

98.40%

- 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)



- 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
+ Covina	129	0	100.00%	7	5.43%
+ Menifee	435	0	100.00%	5	1.15%
+ Saddleback	112	0	100.00%	0	0.00%
+ Wildomar	596	0	100.00%	0	0.00%
+ Arrowhead	950	22	97.68%	90	9.47%

Inspection Contractor Performance

Distribution

ACRT

CNUC

Davey

UPE

Total Trees
Last Touched
2647

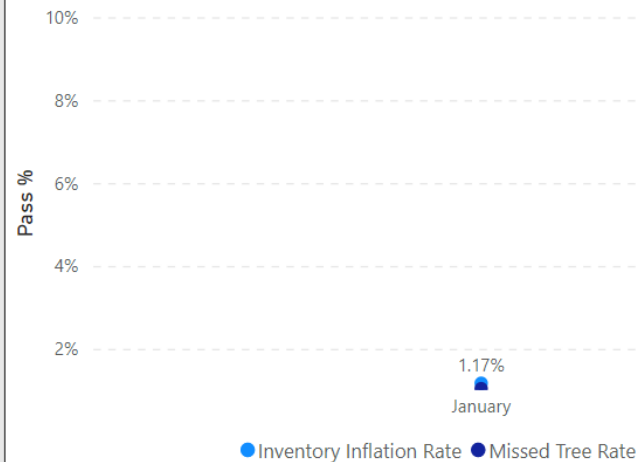
Overall RCD
Pass %
98.70%

Overall CCD
Pass %
95.42%

Clearance Pass % by Month



Inspection Accuracy Rates by Month



Total Trees
QC'd
12285

Missed Rate
1.04%

Inflation Rate
1.17%

Work Type
Accuracy
98.91%

Species ID
98.89%

- 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
South Bay	120	2	98.33%	2	1.67%

Inspection Contractor Performance

Distribution

Transmission

ACRT

CNUC

Davey

UPE

Total Trees Last Touched
202

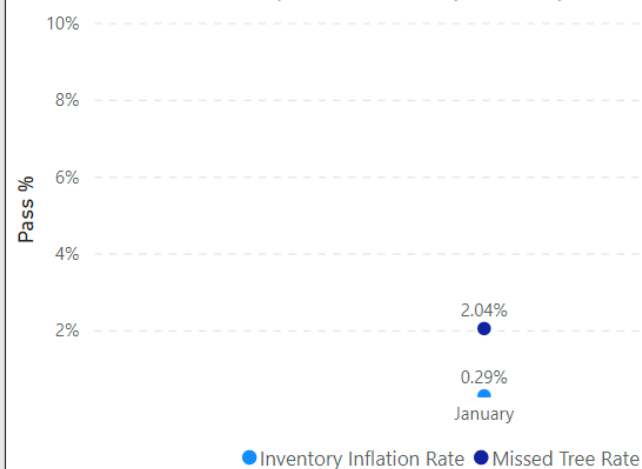
Overall RCD Pass %
96.48%

Overall CCD Pass %
93.47%

Clearance Pass % by Month



Inspection Accuracy Rates by Month



Total Trees QC'd
685

Missed Rate
2.04%

Inflation Rate
0.29%

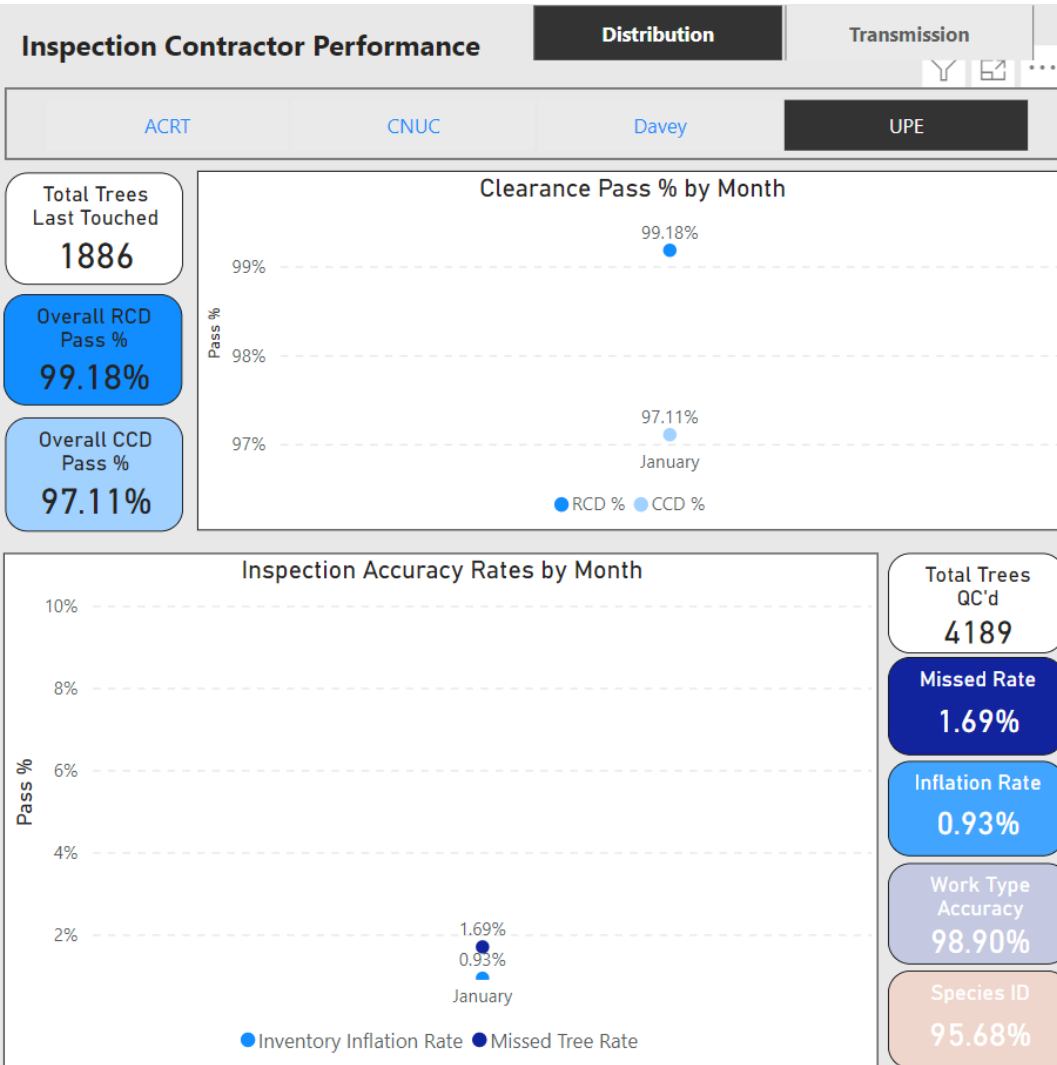
Work Type Accuracy
91.39%

Species ID
98.10%

- 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	672	0	100.00%	8	1.19%
Thousand Oaks	650	2	99.69%	10	1.54%
Valencia	230	5	97.83%	17	7.39%



- 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