

# Quarterly Noise Report

Prepared For:  
California Department of Transportation (Caltrans)  
Division of Aeronautics

1<sup>st</sup> Quarter 2024  
January 1, 2024 – March 31, 2024



Airport Noise Office

June 4, 2024



Quarterly Noise Report  
1<sup>st</sup> Quarter 2024  
(January 1, 2024 through March 31, 2024)

On May 24, 2012, the California Department of Transportation (Caltrans), Division of Aeronautics, confirmed via a correspondence letter that the County of Santa Clara verified San Jose Mineta International Airport (SJC) achieved a zero noise impact area pursuant to the California Code of Regulations, Title 21 (Public Works), Division 2.5 (Division of Aeronautics), Chapter 6 (Noise Standards), Article 1 (General), Section 5012 (Airport Noise Standard) as of its 2<sup>nd</sup> Quarter 2011 Quarterly Noise Report. The letter went on to state that having met the standard, SJC no longer requires a variance.

This Quarterly Noise Report for the 1<sup>st</sup> Quarter of 2024 was prepared by the Airport Noise Office at San Jose Mineta International Airport (SJC), in accordance with the California Noise Standards (California Code of Regulations, Title 21, Section 5000 et seq.).

A handwritten signature in blue ink, appearing to read "R Bond", is written over a horizontal line.

Rosalyn Bond  
Deputy Director of Aviation  
San Jose Mineta International Airport

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## Summary of Statistical Information for the California Department of Transportation (Caltrans) Division of Aeronautics

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1. Size of Noise Impact Area as defined in the Noise Standards (California Code of Regulations, Title 21, Chapter 2.5, Subchapter 6):  
0 Square Miles

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2. Estimated number of dwelling units included in the Noise Impact Area as defined in the Noise Standards\*:  
0 Dwelling Units

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3. Estimated number of people residing within the Noise Impact Area as defined in the Noise Standards\*:  
0 People

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4. Identification of the aircraft type having the highest takeoff noise level operating at this airport together with the estimated number of operations by this aircraft type during the calendar quarter reporting period:  
Embraer 170 (E170); 242 Departures

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5. Total number of aircraft operations during the calendar quarter: (Not Mandatory)  
37,842

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6. Number of Air Carrier operations during the calendar quarter: (Not Mandatory)  
24,650

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7. Percentage of Air Carrier operations by aircraft certificated under Federal Aviation Regulation (FAR) Part 36, Stage III: (Not Mandatory)  
100%

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8. Estimated number of operations by General Aviation aircraft during the calendar quarter: (Not Mandatory)  
7,174

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9. Estimated number of operations by Military aircraft during the calendar quarter: (Not Mandatory)  
49

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10. Estimated number of operations by Taxi/Commuter aircraft during the calendar quarter: (Not Mandatory)  
5,969

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Form DOA 617, Dated 10/89

\* Calculations Based Upon 2020 Census Block Boundary Data.

## Aircraft Noise Measurements and Modeling

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Table 1 contains statistics of aircraft operations based upon the Federal Aviation Administration (FAA) Air Traffic Control Tower (ATCT) counts at San Jose Mineta International Airport (SJC).

Data contained within Tables 2-7 below was obtained from queries and reports run within Envirosuite Airport Noise and Operations Monitoring System (ANOMS) installed at SJC. Table 2 contains the locations of the permanent Remote Monitoring Terminals (RMT) maintained by Envirosuite in the surrounding communities of SJC.

Tables 3-5 contains a summary of daily Community Noise Equivalent Level (CNEL) measurements correlated to local aircraft operations for the three (3) months of the calendar quarter reporting period. Table 6 contains a summary of the monthly local aircraft measured noise levels (dB CNEL). Table 7 contains a summary of the annual local aircraft measured noise levels (dB CNEL).

The 65 dB CNEL noise contour for the period between April 1, 2023 through March 31, 2024 is included at the end of this report. The noise contour was prepared using the Federal Aviation Administration's (FAA) Aviation Environmental Design Tool (AEDT) software and adjusted using the actual CNEL measurements at RMT sites located in areas capable of determining the extent of the CNEL contour or closure points. The noise contour figure includes the locations of the permanent RMTs for reference.

The FAA AEDT software is a state-of-the-art software system that models aircraft performance in space and time to estimate fuel consumption, emissions, noise, and air quality consequences. The modeling methodology fulfills the requirements of the State of California, Title 21, California Noise Standards, specifically section 5032. Validation of the Noise Impact Boundary, which is the 65 dB CNEL contour.

Table 1 – Total Aircraft Operations

Operations	1st Quarter 2024	4th Quarter 2023	3rd Quarter 2023	2nd Quarter 2023
Total	37,842	41,190	42,369	41,515
Air Carrier/Cargo	24,650	27,540	29,076	28,414
General Aviation	7,174	7,809	7,867	7,754
Military	49	33	44	43
Taxi/Commuter	5,969	5,808	5,382	5,304

Table 2 – Remote Monitoring Terminal (RMT) Locations

RMT #	Location	Latitude	Longitude
101	Oak Street, San Jose, CA	37.321292	-121.881981
102	Center for Performing Arts, San Jose, CA	37.329572	-121.892365
104	Bellarmino Prep School, San Jose, CA	37.340997	-121.917993
105	Rosemary Garden, San Jose, CA	37.362400	-121.914750
106	St. John/Autumn, San Jose, CA	37.334240	-121.899946
107	Fire Station 6, Santa Clara, CA	37.395160	-121.949916
108	MacGregor Lane, Santa Clara, CA	37.386895	-121.946527
109	Lake Santa Clara, Santa Clara, CA	37.392133	-121.967717
110	Chestnut Street, Santa Clara, CA	37.390153	-121.959598
111	Fuller Street Park, Santa Clara, CA	37.397987	-121.965516
112	Mountain View/Alviso, Santa Clara, CA	37.409690	-121.979440
114	Fairway Glen Park, Santa Clara, CA	37.405623	-121.961404
115	3rd/Reed, San Jose, CA	37.328608	-121.882987

Table 3 – Daily Community Noise Equivalent Level (CNEL) Values – January 2024

Day	Remote Monitoring Terminal (RMT)												
	101	102	104	105	106	107	108	109	110	111	112	114	115
1	62.0	*	54.6	58.2	65.1	59.7	64.3	61.0	63.3	61.5	58.0	58.7	53.2
2	62.5	*	61.7	62.5	66.1	54.1	57.5	60.6	66.2	63.6	62.4	50.7	63.2
3	63.7	68.1	60.0	60.8	66.7	57.4	60.5	57.7	61.2	59.6	56.7	56.4	61.6
4	62.9	65.4	64.5	59.5	65.9	61.6	64.9	61.3	63.8	61.5	58.1	59.4	55.4
5	62.6	65.8	62.1	58.8	65.5	61.1	63.8	60.8	62.9	61.0	57.8	58.3	55.5
6	61.6	64.8	55.4	59.8	64.6	59.3	63.5	59.6	62.7	60.5	57.1	57.8	55.0
7	63.1	66.4	59.9	63.2	66.2	60.0	64.1	60.6	62.8	61.0	57.6	58.8	55.7
8	62.1	65.6	61.2	62.4	65.4	60.4	63.6	60.4	62.4	60.5	57.3	58.5	53.8
9	63.1	66.4	57.6	59.3	65.3	58.8	61.7	59.1	62.2	60.1	57.3	56.5	59.4
10	61.4	64.9	55.4	59.3	64.5	61.0	64.5	60.7	63.7	80.0	57.6	59.5	54.8
11	61.5	65.1	62.5	62.3	65.0	60.7	64.3	60.7	63.2	61.4	58.4	59.2	53.2
12	62.7	65.8	57.1	57.0	65.6	61.0	64.9	61.5	64.0	62.1	58.6	59.5	54.4
13	59.8	63.3	58.6	58.7	63.0	55.6	50.8	57.3	62.9	60.0	58.8	40.1	61.5
14	63.3	66.5	59.0	59.6	66.7	56.7	60.8	58.2	60.8	59.0	55.7	55.4	59.9
15	61.7	65.0	55.4	53.8	65.0	59.1	63.6	59.9	62.8	60.8	57.0	57.5	54.3
16	58.7	61.9	55.6	57.1	61.7	58.2	62.3	61.3	65.5	63.2	61.3	56.9	54.9
17	61.3	65.3	56.5	57.7	64.5	60.6	64.3	61.0	63.8	62.0	58.3	58.7	54.3
18	61.3	65.2	56.3	59.3	64.7	61.0	64.9	61.4	64.3	62.4	58.7	59.2	53.1
19	59.0	63.5	61.3	59.6	62.6	60.5	63.0	62.6	67.3	65.2	63.2	56.6	61.1
20	61.2	64.9	60.0	60.9	64.5	62.2	52.6	58.0	63.8	61.0	60.1	43.9	63.3
21	60.5	63.8	59.9	60.8	63.8	48.6	54.4	61.0	66.6	64.1	62.8	48.6	63.2
22	63.8	66.8	60.8	59.2	66.8	59.1	62.4	59.6	62.5	64.7	57.0	56.8	60.6
23	60.8	64.2	57.7	54.8	64.0	59.7	63.1	60.0	62.3	61.5	57.2	58.1	51.4
24	60.3	64.8	62.5	60.8	63.9	55.4	51.9	58.4	64.0	61.1	60.3	43.7	62.5
25	62.0	65.5	59.8	58.7	65.2	61.6	64.7	61.4	64.0	62.2	58.8	59.6	53.1
26	61.7	64.9	58.9	55.9	64.5	63.6	65.0	61.3	64.3	66.0	58.7	59.3	53.8
27	59.3	62.9	56.5	54.8	62.5	59.3	63.8	60.9	63.6	64.0	57.9	58.4	53.4
28	63.2	66.0	62.1	59.9	65.6	61.3	65.6	62.9	65.2	64.0	60.2	59.7	54.2
29	60.8	64.2	61.1	61.8	63.8	60.6	65.2	61.7	64.8	62.8	59.1	59.0	53.8
30	57.4	61.4	59.9	56.8	61.0	58.4	62.3	60.8	64.7	62.3	59.6	56.6	56.8
31	57.6	62.6	61.1	59.6	61.7	53.1	53.7	58.9	64.2	61.3	60.1	46.7	60.2
Average	61.7	65.1	59.9	59.7	64.8	59.8	63.0	60.5	64.0	66.9	59.2	57.5	58.5
# of Days	31	29	31	31	31	31	31	31	31	31	31	31	31
Note: * indicates days with missing NMT data													



Table 4 – Daily Community Noise Equivalent Level (CNEL) Values – February 2024

Day	Remote Monitoring Terminal (RMT)												
	101	102	104	105	106	107	108	109	110	111	112	114	115
1	63.5	67.3	63.6	60.8	66.4	59.1	66.7	59.3	63.0	60.8	58.7	56.2	62.4
2	61.9	65.6	*	60.4	64.8	63.6	65.4	61.8	64.5	62.7	59.1	59.9	54.1
3	59.4	63.1	*	59.2	62.9	52.1	52.9	57.4	62.7	60.0	58.9	44.2	60.4
4	58.5	62.3	*	63.2	61.7	53.5	61.9	60.9	66.6	63.9	62.9	53.3	60.8
5	63.0	66.9	*	60.9	66.6	58.5	60.7	59.7	63.3	61.2	58.9	54.8	62.4
6	62.0	64.8	58.1	60.9	65.3	60.2	63.8	60.9	62.9	61.1	57.6	58.5	52.9
7	62.1	65.5	60.3	*	65.1	61.0	63.4	61.0	63.7	61.4	58.6	58.3	57.6
8	62.2	65.2	59.4	*	65.1	63.0	64.6	61.4	64.1	62.1	58.8	59.4	53.5
9	62.5	65.4	59.4	*	64.9	61.2	65.0	61.8	64.2	62.6	59.0	59.8	56.8
10	59.3	62.4	58.9	*	62.3	58.8	63.0	60.1	62.3	60.6	56.9	57.5	52.5
11	62.2	65.3	54.3	*	64.9	59.7	64.0	60.6	63.1	61.3	57.4	58.3	53.1
12	62.1	65.3	59.3	*	65.3	60.7	64.3	61.3	63.8	61.8	58.1	59.3	53.0
13	60.6	64.1	58.7	49.2	64.0	60.4	63.7	60.8	63.0	61.2	58.0	58.8	51.6
14	60.4	64.7	59.3	60.4	63.8	55.6	52.1	58.3	64.2	62.0	60.5	45.2	61.6
15	62.6	65.8	58.1	57.6	65.9	60.9	64.9	61.7	64.3	62.3	59.4	59.5	54.0
16	61.2	64.6	57.2	59.9	64.2	61.4	66.0	63.3	65.9	64.3	60.6	60.5	52.5
17	59.9	63.5	58.5	58.8	63.1	51.2	51.9	58.0	63.6	60.5	59.5	43.0	61.9
18	59.3	63.2	59.8	60.9	63.4	52.0	54.5	60.7	66.0	63.6	62.3	49.4	62.3
19	60.6	64.8	60.2	61.9	64.4	52.1	55.6	61.0	66.6	63.9	62.6	49.5	63.1
20	60.6	65.6	60.2	60.9	64.4	52.5	52.7	59.2	65.0	62.0	61.1	41.1	62.7
21	62.1	65.1	*	58.8	65.1	60.7	63.9	61.2	63.8	61.8	58.4	58.4	56.2
22	61.9	65.5	*	59.2	64.9	61.0	65.0	62.0	64.4	62.7	59.0	59.7	53.4
23	61.7	65.1	*	60.6	65.6	61.1	65.2	62.0	64.5	63.0	59.5	59.7	53.9
24	60.3	62.9	*	57.9	62.5	59.6	63.3	60.0	62.6	61.0	57.3	57.7	49.8
25	63.0	66.1	*	56.0	66.1	59.8	64.4	61.3	63.5	61.9	58.3	58.5	55.4
26	62.3	65.7	*	59.0	66.6	61.1	65.0	61.7	64.2	62.6	58.9	60.6	54.2
27	61.1	64.5	*	60.2	64.3	59.9	63.6	61.0	62.9	61.3	58.2	58.3	52.9
28	63.2	64.6	*	55.9	64.2	60.1	63.7	60.4	63.1	61.1	57.4	58.2	52.2
29	61.9	66.2	*	61.9	65.1	55.7	56.3	60.0	65.3	62.6	61.1	51.0	62.7
Average	61.6	65.0	59.5	59.9	64.8	59.6	63.3	60.8	64.2	62.1	59.5	57.6	58.6
# of Days	29	29	16	23	29	29	29	29	29	29	29	29	29

Note: \* indicates days with missing NMT data

Table 5 – Daily Community Noise Equivalent Level (CNEL) Values – March 2024

Day	Remote Monitoring Terminal (RMT)												
	101	102	104	105	106	107	108	109	110	111	112	114	115
1	62.0	66.6	59.2	63.5	65.6	55.3	56.3	61.1	66.3	63.8	62.6	48.8	63.4
2	60.6	63.7	55.0	61.3	63.2	54.3	57.4	58.2	64.1	60.6	59.0	51.4	60.5
3	64.4	67.1	*	60.8	67.1	56.8	60.6	58.1	61.5	59.1	56.6	55.2	60.8
4	61.3	64.5	*	60.9	65.1	61.3	66.5	62.2	65.0	63.2	60.0	59.8	53.5
5	60.4	64.7	61.1	59.4	64.2	52.4	53.2	59.2	65.1	62.1	60.9	47.4	62.5
6	61.8	65.0	58.8	57.8	65.5	61.9	64.8	62.0	64.9	62.8	59.3	59.6	52.9
7	62.5	65.6	62.8	60.4	66.2	61.8	65.6	62.7	65.1	63.4	59.7	60.7	53.8
8	62.5	65.8	63.2	59.3	65.7	61.5	65.7	62.3	64.9	63.1	59.6	60.0	54.0
9	61.2	64.9	52.4	55.2	65.0	59.8	63.8	60.7	63.2	61.5	58.1	58.7	52.4
10	59.6	61.9	54.7	57.3	61.9	59.0	63.2	61.7	65.8	63.7	61.3	57.7	55.4
11	62.3	65.7	57.5	61.7	65.6	60.8	64.3	61.5	63.8	62.5	58.9	59.4	52.6
12	63.1	66.7	60.5	59.8	66.5	57.3	60.1	58.1	61.1	58.7	56.4	55.1	60.7
13	62.1	65.3	63.6	59.6	65.0	60.0	63.7	61.0	62.8	72.5	57.9	58.2	53.8
14	62.5	65.6	61.1	56.9	65.1	65.0	63.1	60.4	62.7	60.5	57.9	57.9	54.4
15	62.0	65.2	60.7	54.0	64.9	60.2	63.7	60.3	63.1	61.1	58.0	58.4	54.2
16	62.0	64.6	53.5	55.6	63.7	58.9	62.9	59.3	62.6	60.5	57.1	57.6	56.2
17	62.8	66.4	53.5	55.0	65.0	59.7	63.9	60.4	63.1	60.9	57.0	58.0	54.4
18	63.3	65.1	59.9	58.4	61.4	60.9	64.8	61.8	64.4	67.9	58.5	60.5	57.8
19	62.6	64.4	58.9	57.4	60.6	60.5	63.5	59.7	62.8	61.2	56.5	62.0	57.4
20	62.8	64.7	56.5	62.5	60.0	60.5	64.2	61.0	63.8	61.7	57.9	60.5	57.3
21	62.9	64.9	60.3	58.2	62.0	62.1	65.2	62.1	65.0	*	59.6	60.2	58.0
22	63.4	66.8	61.0	60.9	66.3	61.1	64.2	61.5	65.5	*	61.1	58.6	60.3
23	62.5	66.6	45.8	59.4	66.5	60.9	65.0	61.7	64.2	*	59.0	59.8	54.6
24	64.8	67.1	*	60.5	66.8	61.6	65.4	61.7	64.1	*	59.2	60.4	56.9
25	63.1	66.0	*	61.2	65.7	61.5	65.4	62.2	64.3	*	58.9	60.0	54.8
26	61.7	65.4	*	57.1	65.2	60.8	64.6	61.6	63.7	*	58.6	60.9	52.4
27	61.2	65.4	*	61.0	64.7	55.2	54.8	59.9	65.7	*	64.2	*	61.9
28	62.7	65.9	*	60.5	66.5	61.7	65.2	62.4	64.8	*	66.2	*	53.7
29	61.9	66.2	*	62.1	66.0	55.7	55.9	61.5	66.7	*	62.9	*	64.2
30	61.5	65.0	*	60.8	65.9	54.6	58.1	59.3	64.1	*	59.8	*	62.2
31	63.3	66.6	*	56.5	66.2	60.9	65.5	62.3	64.7	*	59.4	*	55.0
Average	62.4	65.6	59.6	59.8	65.1	60.3	63.6	61.1	64.3	64.1	60.1	58.9	58.4
# of Days	31	31	21	31	31	31	31	31	31	20	31	26	31

Note: \* indicates days with missing NMT data

Table 6 – Monthly Community Noise Equivalent Level (CNEL) Values

Month, Year	Remote Monitoring Terminal (RMT)												
	101	102	104	105	106	107	108	109	110	111	112	114	115
April, 2023	63.8	66.7	58.3	58.4	65.9	62.3	65.2	62.1	63.3	62.7	59.0	59.6	56.9
# of Days	30	30	13	30	30	5	30	30	30	30	30	30	30
May, 2023	64.1	66.8	58.4	58.5	65.8	59.1	64.5	61.8	63.9	62.9	59.4	58.7	59.6
# of Days	31	31	31	31	31	4	31	31	31	31	31	31	31
June, 2023	64.2	67.0	57.5	58.2	65.4	60.8	64.8	62.4	64.4	63.3	59.5	59.2	59.7
# of Days	30	30	29	30	30	30	30	30	30	30	26	30	30
2nd Quarter 2023	64.0	66.8	58.1	58.4	65.7	60.9	64.8	62.1	63.9	63.0	59.3	59.2	58.9
# of Days	91	91	73	91	91	39	91	91	91	91	87	91	91
July, 2023	63.4	66.3	55.9	56.6	65.1	60.3	64.8	62.5	64.1	63.3	59.1	58.5	56.1
# of Days	31	31	31	31	31	31	31	31	31	31	20	31	31
August, 2023	62.5	65.7	55.0	58.5	64.8	60.8	64.5	61.7	64.4	62.6	58.8	58.6	56.5
# of Days	31	31	31	31	31	31	31	31	31	31	31	31	31
September, 2023	62.7	66.2	55.8	56.7	65.3	60.1	63.8	61.2	63.9	62.1	58.6	58.4	58.6
# of Days	30	28	30	30	30	30	30	30	30	30	30	30	30
3rd Quarter 2023	62.9	66.1	55.6	57.4	65.1	60.4	64.4	61.8	64.1	62.7	58.8	58.5	57.2
# of Days	92	90	92	92	92	92	92	92	92	92	81	92	92
October, 2023	62.0	65.3	56.4	59.4	64.6	60.3	64.1	61.3	64.0	63.0	58.6	58.7	55.0
# of Days	31	31	31	31	31	31	31	22	31	31	31	31	31
November, 2023	62.0	64.7	59.2	60.4	64.1	59.5	63.1	61.0	63.8	63.3	58.9	57.8	57.2
# of Days	30	20	30	30	30	30	30	30	30	30	27	30	30
December, 2023	62.1	65.5	58.9	61.5	65.0	59.7	63.4	61.2	64.6	63.4	59.7	57.9	58.6
# of Days	31	27	31	31	31	31	31	21	31	31	31	31	31
4th Quarter 2023	62.0	65.2	58.3	60.5	64.6	59.8	63.6	61.2	64.1	63.3	59.1	58.2	57.2
# of Days	92	78	92	92	92	92	92	73	92	92	89	92	92
January, 2024	61.7	65.1	59.9	59.7	64.8	59.8	63.0	60.5	64.0	66.9	59.2	57.5	58.5
# of Days	31	29	31	31	31	31	31	31	31	31	31	31	31
February, 2024	61.6	65.0	59.5	59.9	64.8	59.6	63.3	60.8	64.2	62.1	59.5	57.6	58.6
# of Days	29	29	16	23	29	29	29	29	29	29	29	29	29
March, 2024	62.4	65.6	59.6	59.8	65.1	60.3	63.6	61.1	64.3	64.1	60.1	58.9	58.4
# of Days	31	31	21	31	31	31	31	31	31	20	31	26	31
1st Quarter 2024	61.9	65.2	59.7	59.8	64.9	59.9	63.3	60.8	64.2	64.8	59.6	58.0	58.5
# of Days	91	89	68	85	91	91	91	91	91	80	91	86	91
Annual	62.8	65.9	58.2	59.2	65.1	60.3	64.1	61.5	64.1	63.5	59.2	58.5	58.0
# of Days	366	348	325	360	366	314	366	347	366	355	348	361	366
Online Percentage	100%	95%	89%	98%	100%	86%	100%	95%	100%	97%	95%	99%	100%

Table 7 – Annual Community Noise Equivalent Level (CNEL) Values

RMT #	Remote Monitoring Terminal (RMT)			
	1st Quarter 2024	4th Quarter 2023	3rd Quarter 2023	2nd Quarter 2023
101	62.8	62.0	62.9	64.0
102	65.9	65.2	66.1	66.8
104	58.2	58.3	55.6	58.1
105	59.2	60.5	57.4	58.4
106	65.1	64.6	65.1	65.7
107	60.3	59.8	60.4	60.9
108	64.1	63.6	64.4	64.8
109	61.5	61.2	61.8	62.1
110	64.1	64.1	64.1	63.9
111	63.5	63.3	62.7	63.0
112	59.2	59.1	58.8	59.3
114	58.5	58.2	58.5	59.2
115	58.0	57.2	57.2	58.9