



SANTA BARBARA AIRPORT

Monthly Noise Impact Report December 2021



December 2021 - Noise Impact Report

- Monthly Totals for Flight Operations as logged by EnvironmentalVue® Noise Monitoring System
- Arrival Flight Activity
- Noise Complaints by Neighborhoods
- Noise Complaints Summary
- Noise Summary Report
- Monthly Noise Complaint Trends
- Noise Complaint Process



December 2021 – Flight Operations

Total Operations For December 2021: 4355 (▼ 797)						
Total Arrivals: 1961						
Runway:	7	25	15L	15R	33L	33R
Total:	638	1060	240	11	2	10
Last Month:	781	1107	403	20	0	3
Monthly Change:	▼ 143	▼ 47	▼ 163	▼ 9	▲ 2	▲ 7
Monthly Trend						
Total Departures: 2394						
Runway:	7	25	15L	15R	33L	33R
Total:	525	1195	602	56	3	13
Last Month:	679	1178	917	61	1	2
Monthly Change:	▼ 154	▲ 17	▼ 315	▼ 5	▲ 2	▲ 11
Monthly Trend						

Commercial Operations For December 2021: 1146 (▼ 144)						
Commercial Arrivals: 576						
Runway:	7	25	15L	15R	33L	33R
Total:	263	313	0	0	0	0
Last Month:	309	339	0	0	0	0
Monthly Change:	▼ 46	▼ 26	0	0	0	0
Monthly Trend						
Commercial Departures: 570						
Runway:	7	25	15L	15R	33L	33R
Total:	199	371	0	0	0	0
Last Month:	274	368	0	0	0	0
Monthly Change:	▼ 75	▲ 3	0	0	0	0
Monthly Trend						



December 2021 – Flight Operations

Private Jet Operations For December 2021: 862 (▼ 141)						
Private Jet Charter Arrivals: 426						
Runway:	7	25	15L	15R	33L	33R
Total:	160	259	3	0	0	4
Last Month:	188	261	10	1	0	2
Monthly Change:	▼ 28	▼ 2	▼ 7	▼ 1	0	▲ 2
Monthly Trend						
Private Jet Charter Departures: 436						
Runway:	7	25	15L	15R	33L	33R
Total:	146	262	16	12	0	0
Last Month:	173	274	75	18	0	1
Monthly Change:	▼ 27	▼ 12	▼ 59	▼ 6	0	▼ 1
Monthly Trend						

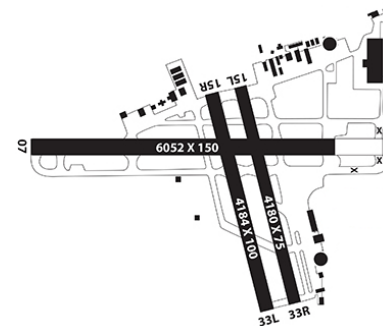
General Aviation Operations For December 2021: 2347 (▼ 512)						
General Aviation Arrivals: 959						
Runway:	7	25	15L	15R	33L	33R
Total:	215	488	237	11	2	6
Last Month:	284	507	393	19	0	1
Monthly Change:	▼ 69	▼ 19	▼ 156	▼ 8	▲ 2	▲ 5
Monthly Trend						
General Aviation Departures: 1388						
Runway:	7	25	15L	15R	33L	33R
Total:	180	562	586	44	3	13
Last Month:	232	536	842	43	1	1
Monthly Change:	▼ 52	▲ 26	▼ 256	▲ 1	▲ 2	▲ 12
Monthly Trend						



December 2021 - Arrival Flight Activity

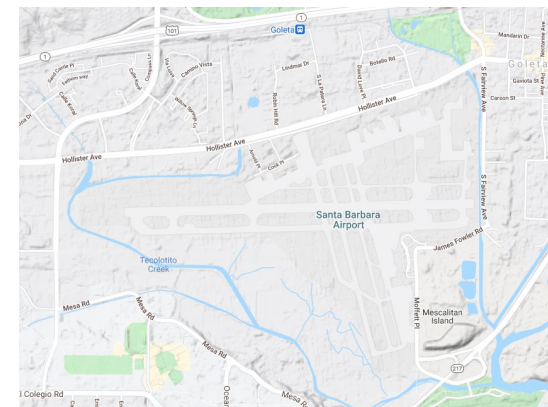
Commercial Arrival Operations: 576

- Runway 7 – 263 (45.7%)
- Runway 25 – 313 (54.3%)
 - *Voluntary Noise Abatement Approach (VNAA) Adherence*
 - 222 (70.9%) of 313 flights adhered with the VNAA, ATC Instructions
 - 91 (29.1%) of 313 flights did not adhere to the VNAA (Slide 8 for external factors)
 - 53 of 91 (58%) flights generated 203 complaints



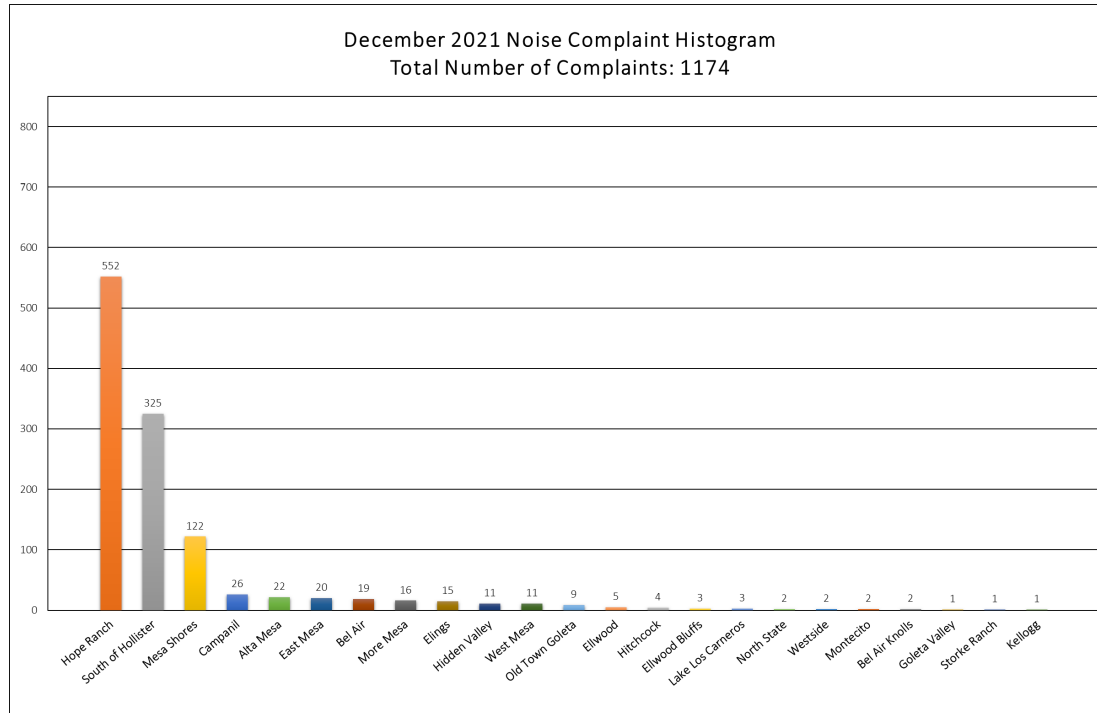
General Aviation & Private Charter Arrival Operations: 959

- Runway 15L – 237 (24.7%) – Runway 33R – 6 (.6%)
- Runway 15R – 11 (1.1%) – Runway 33L – 2 (0.2%)
- Runway 7 – 215 (22.4%)
- Runway 25 – 488 (50.8%)
 - *Voluntary Noise Abatement Approach (VNAA) Adherence RWY 25*
 - 367 (75.2%) of 488 flights adhered with the VNAA, ATC Instructions, flew quiet
 - 121 (24.8%) of 488 flights did not adhere to the VNAA (Slide 8 for external factors)





December 2021 - Noise Complaints by Neighborhood





December 2021 - Noise Complaint Summary

Monthly Total of All Noise Complaints Received	Number of Households Submitting Complaints (Based on Address)	Total Flights requiring follow-up	GA and Private Jet flights requiring follow-up	Airline flights requiring follow-up
1174	77	174	121	53

	Complaints Submitted	Neighborhood
Household 1:	312	South of Hollister
Household 2:	181	Hope Ranch
Household 3:	100	Hope Ranch
Household 4:	97	Mesa Shores
Household 5:	41	Hope Ranch
Household 6:	32	Hope Ranch
Household 7:	31	Hope Ranch
Household 8:	29	Hope Ranch
Household 9:	24	Hope Ranch
Household 10:	23	Hope Ranch
Total Complaints Submitted: 870 out of 1174 (74%)		

Community	Complaints Submitted
1. Hope Ranch	552
2. South of Hollister	325
3. Mesa Shores	122
4. Campanil	26
5. Alta Mesa	22
6. East Mesa	20
7. Bel Air	19
8. More Mesa	16
9. Elings	15
10. Hidden Valley	11
Total Complaints Submitted: 1128 out of 1174 (96%)	

- 74% of complaints were submitted from 10 residences
- 26% of complaints were submitted from 67 residences



December 2021 Noise Complaints – Trends

		2019	2020	2021
Total Complaints Received	December:	319	219	1174
	November:	709	279	1827
	October:	1458	340	1975
Letters of Followup	December:	65	92	174
	November:	123	92	293
	October:	229	90	407

- Significant increase in noise-related complaints year over year for the month of December, but a drop from last month:
 - 272 complaints (23% of total) are attributed to 121 private & charter flights that did not adhere to the VNAA
 - 203 complaints (17% of total) are attributed to 53 commercial aircraft that did not adhere to the VNAA
 - 699 complaints (60% of total) are attributed to 440 flights that adhered to the VNAA and/or Air Traffic Control Instruction.
 - Some flights that did not adhere to the VNAA did not generate complaints
- Complaints are the result of the following factors:
 - Aircraft operations recovering to 2019 levels after an unprecedented fall-off in 2020 due to COVID restrictions
 - Small group of community members sending in repeated complaints – 10 households represent 74% of total complaints
 - Fewer complaints for Commercial Aircraft as result of new FAA special approach procedure (RNAV Visual Approach)



Noise Complaint Process

- Complaints are received by various methods: Voicemail Noise Hotline, Online Submission Form, Direct Contact
- Complaints are correlated to corresponding flights by actual location from submitter and by time of submission.
- The flight tracks to these correlated flights are analyzed to see whether they flew the Voluntary Noise Abatement Approach (VNAA), or other external factors existed that prevented the VNAA from being followed
- Common External Safety Facts and Factors:
 - According to the FAA: Descent and Landing phase of flights account for 47% of total accidents, and 22.7% fatal accidents.¹

Air Traffic Control	Inclement Weather Effects	Pilot Factors
Instrument Departure Procedures	Cloud Coverage (Overcast, Fog, Low Level Ceiling)	Pilot in Command: Final authority for safety of flight
Instrument Arrival Procedures	Wind Direction (Takeoffs and Landings into the wind)	Ability to make stabilized approach
Traffic Sequencing and Spacing	Airspeed (Cross wind stability / Stall speeds)	Training flight requirements
Traffic Pattern Operations	Altitude (Low level Wind shear, Stabilized Approach)	Familiarity with local procedures

1. United States. Federal Aviation Administration. (2009). *Risk Management Handbook*. U.S. Dept. of Transportation, Federal Aviation Administration.



Noise Complaint Process – Cont'd

- After analyzing the flight track with the location, date and time, a response is entered into the complaint with the result.
- If a complaint that is correlated to a flight track that did not fly the Voluntary Noise Abatement Approach and could have with respect to external factors, a response is entered into the complaint “Aircraft operator to receive letter of advisement.”
- Each of these aircraft operators are sent a letter from the Santa Barbara Airport with educational information about the Santa Barbara Airport Voluntary Noise Abatement Approach, and information relating operations at Santa Barbara Airport.
 - Letters are sent to airlines
 - Letters are sent to corporate and charter jet operators
 - Letters are sent to private aircraft operators