



Camarillo Airport Authority
Oxnard Airport Authority

June 13, 2019



**Presentation by the Sheriff's
Agency Aviation Unit
Regarding
Blackhawk Helicopter
Operations**

VENTURA COUNTY AIR OPERATIONS



AIRCRAFT COMPARISON

AIRCRAFT DESCRIPTION

BELL "HUEY"



SIKORSKY HH-60L FIREHAWK



SIKORSKY HH-60L FIREHAWK

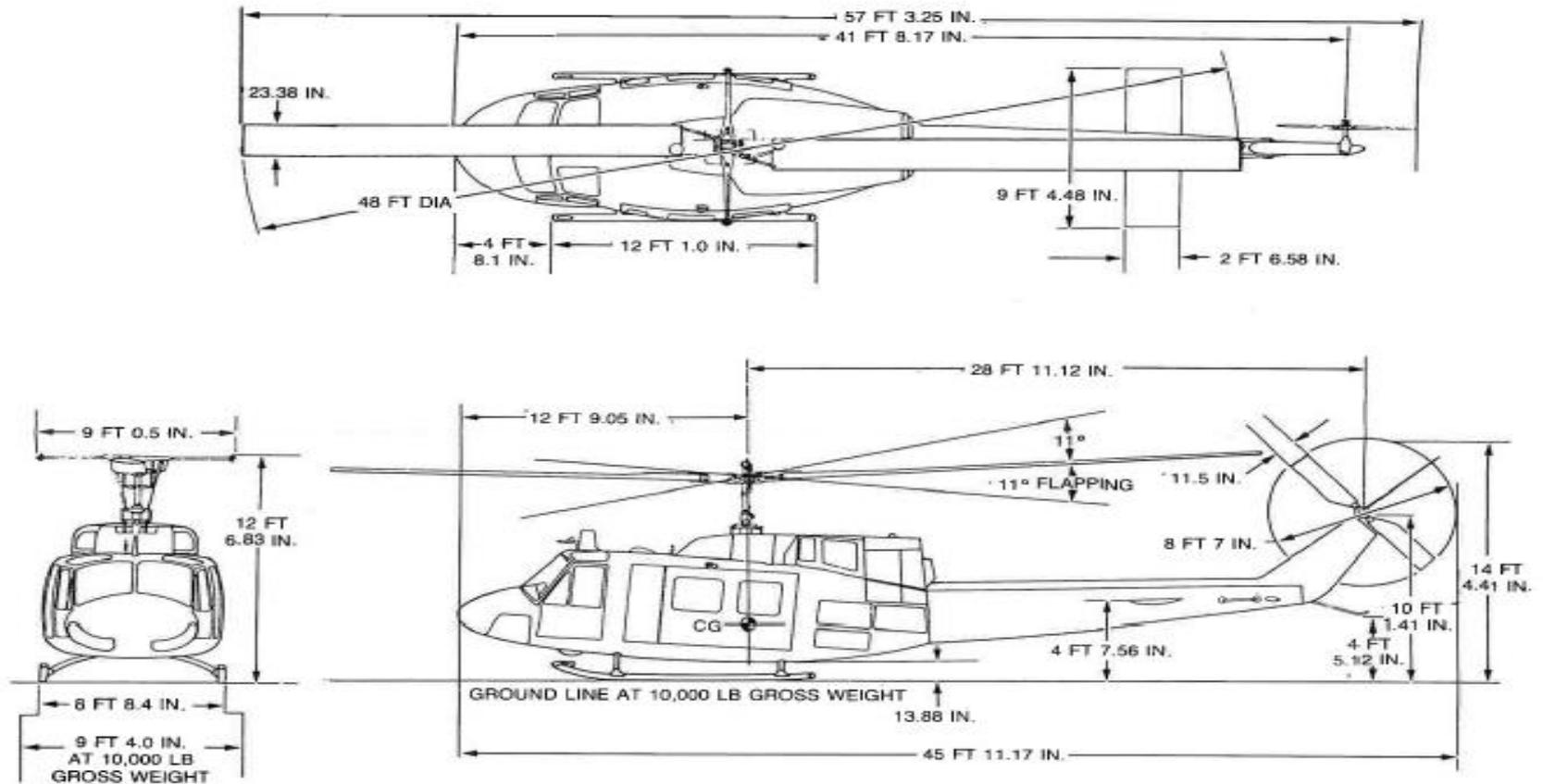
- *Type 1 twin-engine medical rescue, SAR, and firefighting helicopter (high capacity 1,000 gallon water tank)*
- *High performance (speed, rate of climb, pilot controls)*
- *Proven performance in military service*
- *Neighboring agency flies this aircraft*
- *Excellent safety record*

BELL HUEY

- *Type 2 twin & single engine, medical rescue, SAR, and law enforcement helicopter*
- *High performance (speed, rate of climb, pilot controls)*
- *Proven performance in commercial service*
- *Excellent safety record*

AIRCRAFT DIMENSIONS

HUEY

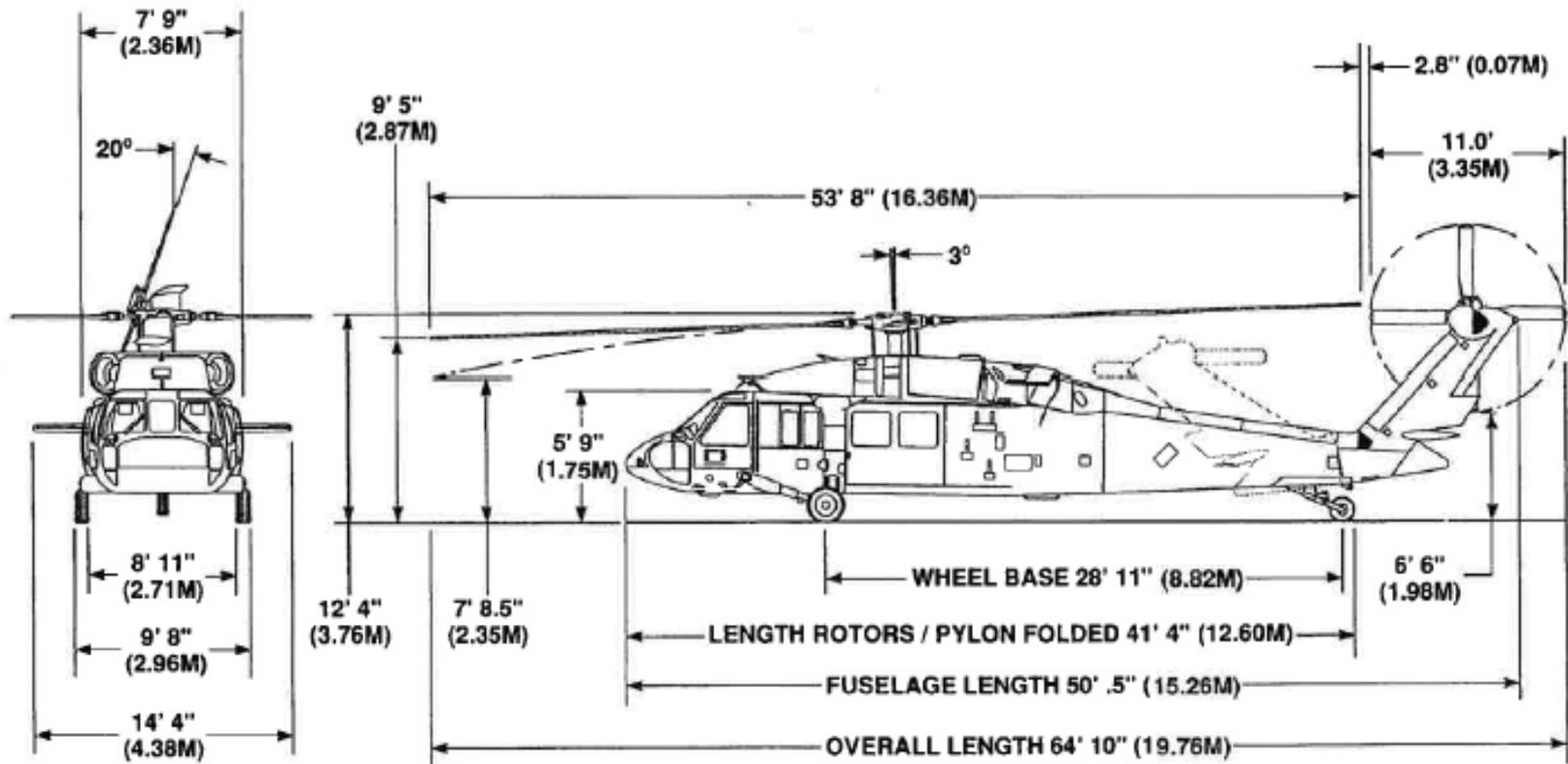


NOTE:
VERTICAL DIMENSIONS WILL INCREASE BY
APPROXIMATELY 3.3 INCHES WHEN
HELICOPTER IS EMPTY.

Figure 1-3. Exterior Dimensions

AIRCRAFT DIMENSIONS

HH-60L



AIRCRAFT NOISE STATS

TABLE: A1

BELL 212 TAKEOFF/APPROACH DATA TABLE

Military Designation: UH-1N

<u>CPA Distance (FT)</u>	<u>TAKEOFF SEL (dB)</u>	<u>APPROACH SEL (dB)</u>
200	92.5	98.6
400	88.3	94.6
600	85.6	92.1
1000	82.1	89.0
2000	76.8	84.5
4000	71.4	79.3
6000	67.4	76.0
10000	61.8	71.3

Takeoff Notes

Vy (Speed for best rate of climb) = 55 kts
 BRC (Best rate of climb) = 1350 feet per minute (fpm)
 Climb Angle (degrees) = 14°
 Climb Gradient (Run/Rise) = 4.0
 Takeoff Weight = 10,500 lbs

Approach Notes

Vy (Speed for best rate of climb) = 55 kts
 Approach Angle (degrees) = 6°

TABLE: N1

SIKORSKY S-70 TAKEOFF/APPROACH DATA TABLE

Military Designation: UH-60A

<u>CPA Distance (FT)</u>	<u>TAKEOFF SEL (dB)</u>	<u>APPROACH SEL (dB)</u>
200	91.4	98.2
400	86.9	94.1
600	84.1	91.7
1000	80.4	88.5
2000	74.9	83.9
4000	69.3	78.9
6000	65.6	75.7
10000	60.6	71.2

Takeoff Notes

Vy (Speed for best rate of climb) = 80 kts
 BRC (Best rate of climb) = 1950 feet per minute (fpm)
 Climb Angle (degrees) = 13.9°
 Climb Gradient (Run/Rise) = 4.0
 Takeoff Weight = 20,250 lbs

Approach Notes

Vy (Speed for best rate of climb) = 80 kts
 Approach Angle (degrees) = 6°

APPROACH AND DEPARTURE



Operations within this area will be limited to maintenance inspections and ground run ups only.

WEST VIEW

Approach & Departure Profiles West View

Legend



Approach and Departure Profiles mitigate impact to airport tenants with minimal downwash

DOWN WASH

- The Blackhawk helicopter puts out approximately 1.5 times the down wash of the Huey.
- Down wash is directly affected by Blade Loading, and how heavy the aircraft is during take off and landing.
- Our planned operating weight of the Blackhawk is going to be approximately 5000LBS Below maximum gross weight on takeoff; and potentially 7000LBS below maximum gross weight when returning to base after a mission. This will aid in minimizing down wash during the vertical take off and landing described earlier.
- During multiple test take offs and landings performed by one of our Blackhawks and LA County's fire hawk, we determined that the down wash effect while landing on our paved concrete ramp (in a vertical fashion) proved to be a negligible difference when compared to the Huey.



VS.



? QUESTIONS ?

**Presentation by Mead & Hunt
Regarding the
Oxnard Airport Runway
Alternatives**

6.B. Annual Service Contracts for FY 2019-2020

Recommendations:

1. Authorize the Director of Airports to award annual consulting-services contracts for fiscal year 2019-2020 to the consultants listed in the Annual Consultant Services Contracts Summary (Attachment 1) using a contract form negotiated in compliance with the County of Ventura Public Works Agency Project Processing Procedures Manual (an exemplar contract form is attached as Attachment 2)

6.B. Annual Service Contracts for FY 2019-2020

Total Amount budgeted in FY 2019-20 for these type of contracts = **Up to \$175,000**
Total Number of Contracts by Consultant for FY 2019-20 = **2**

Coffman Associates \$50,000

- Contemplated Services:
 - Environmental Planning
 - Environmental Review Services
 - Grant Support Administration Services
 - Planning

Mead and Hunt, Inc. \$100,000

- Contemplated Services:
 - Civil Engineering
 - Design Review Services
 - Specification Writing
 - Cost Engineer/Estimator
 - Disadvantage Business Enterprise Support



Amount Remaining for this type of Contract is \$25,000. Any additional contract would be brought back for your recommendation

6.B. Annual Service Contracts for FY 2019-2020

Recommendations:

2. Authorize the Director of Airports and/or his designee to issue work orders against such contracts for up to \$35,000 each project for planning of construction projects not yet approved by your Board, and for up to \$100,000 each work order for other services.

6.B. Annual Service Contracts for FY 2019-2020

Contracts in Recommendation 1 are Coffman Associates and Mead & Hunt

- Work Orders up to \$35,000 each project for planning construction projects not yet approved by the Board
- Work Orders up to \$100,000 each for other services

The amount limits for each contract still apply.

Camarillo Airport Authority Bylaws

Oxnard Airport Authority Bylaws

Director's Report

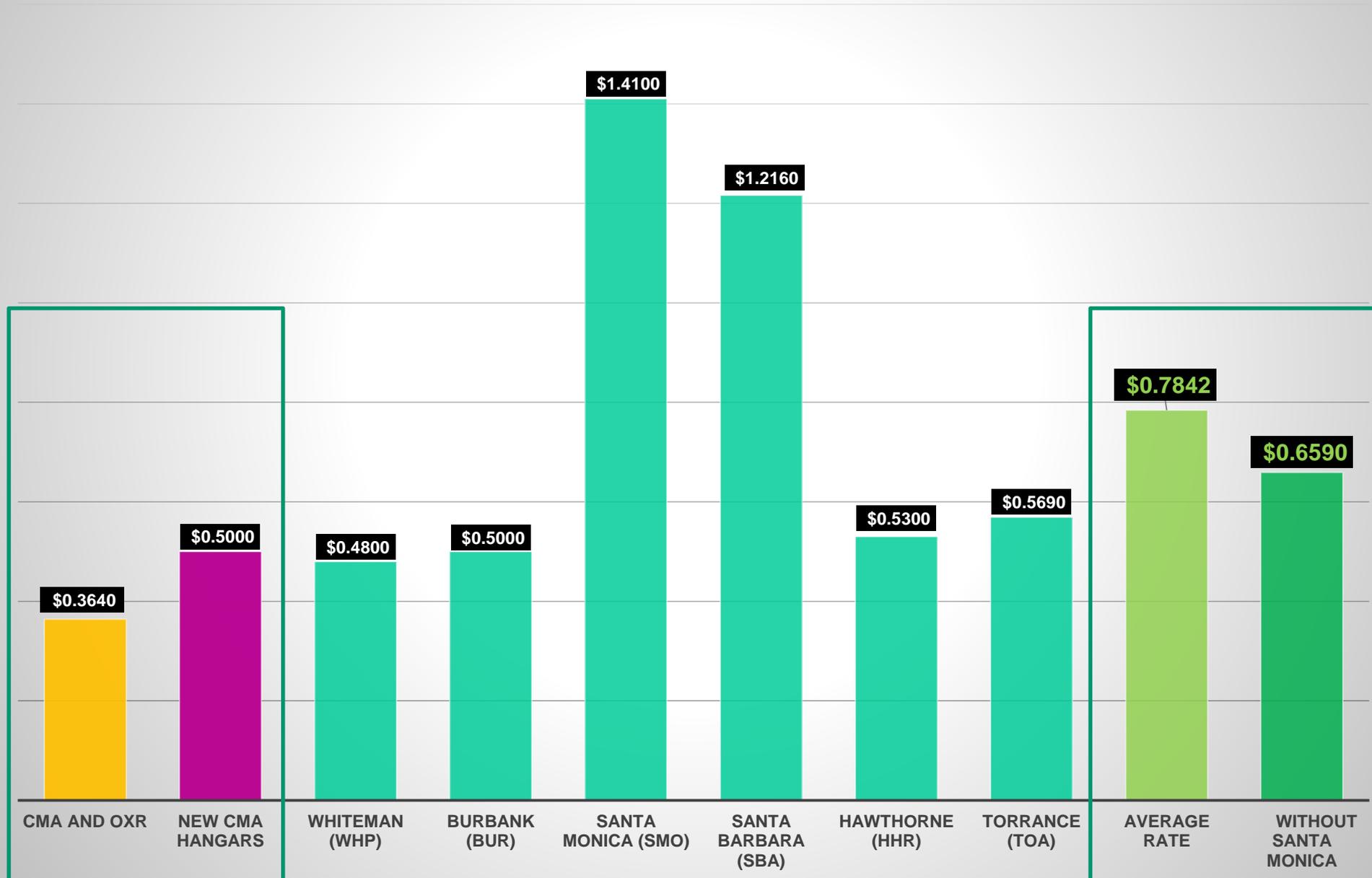
Commercial Activity Permits - Aviation

				Hours	Rate	Total Amount	FY 19-20 Rates	FY 18-19 Rates
Aviation Commercial Activity Permit								
A.	Daily Aviation Commercial Activity Permit							
	OPS Supervisor- 2 hrs							
	Per Hour Rate @	\$ 58.40		2.0	\$ 58.40	\$ 116.81		
	Overhead Rate -	70.5%				82.29		
	Copy of permit-based on GSA rates			4 pages	0.03	0.12		
	Cost for Establishing Aviation Comm. Activity Permit					\$ 199.22	\$ 199.00	\$ 257.00
	The Ops Supervisor time to establish a permit went from three hours to two hours.							
B.	Each Additional Day-Aviation Com. Activity Permit					Total Amount		
	Operations Officer- 20 minutes			Hours	Rate			
	Per Hour Rate @	\$ 61.96		0.333	\$ 61.96	\$ 20.63		
	Overhead Rate -	70.5%				14.54		
	Cost for Each Additional Day					\$ 35.17	\$ 35.00	\$ 50.00
	The Operations time to monitor a daily permit went from 30 minutes to 20 minutes a day.							
C.	Annual Aviation Com. Activity Permit							
	Application cost for processing a permit (Ops Supervisor time)			1	199.00	199.00		
	Additional days (20 minute each process, 4 times per month)			48	35.00	1,680.00		
	Total Yearly Cost					\$ 1,879.00	\$ 1,879.00	\$ 2,657.00
	The yearly cost for a permit decreased due to adjustments made to the permit processing and monitoring time.							

Airport Owned Hangar Rates

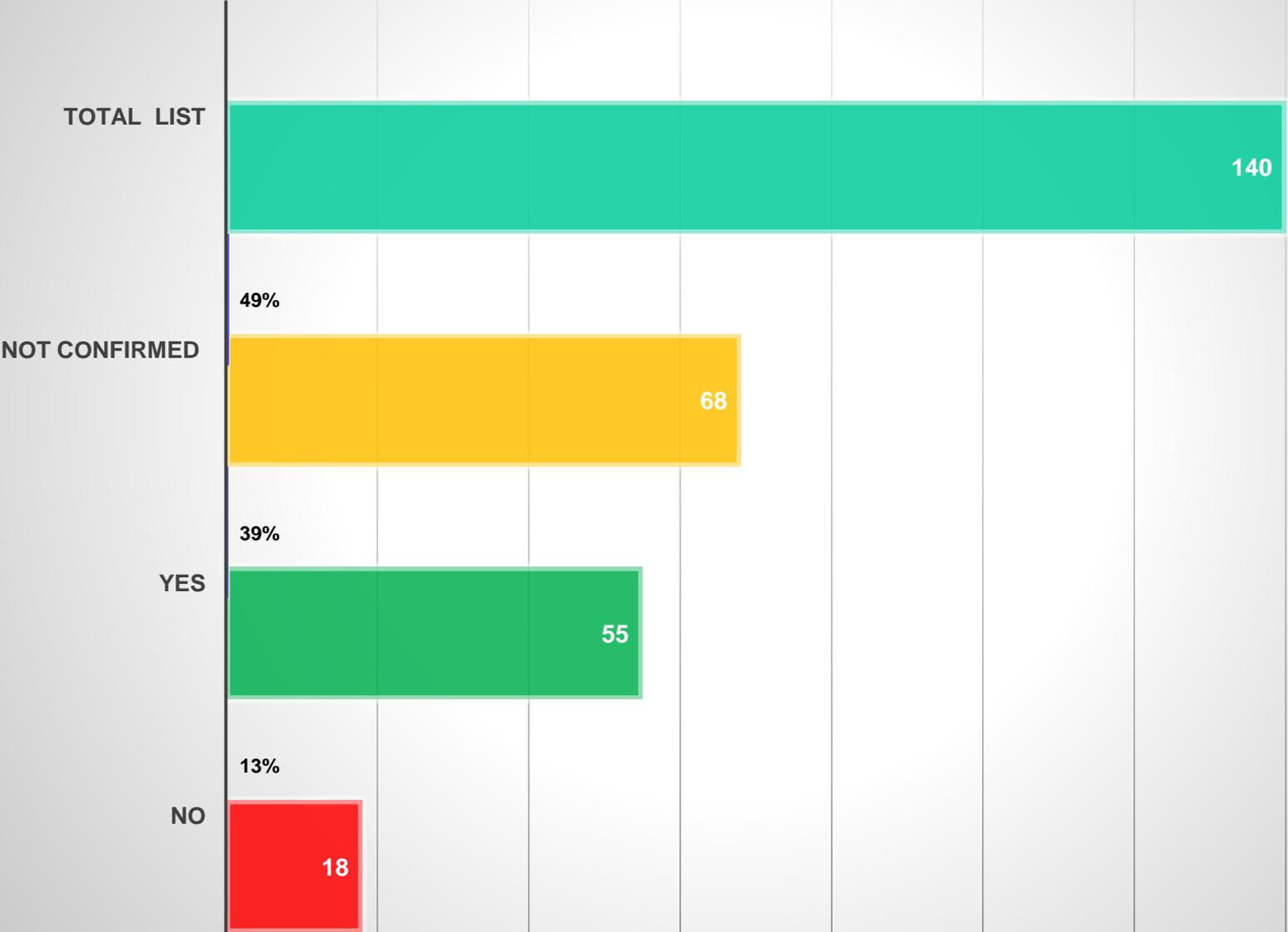
(within driving distance of CMA/OXR)

Per Square Foot per Month



Hangar Waiting List Survey

New Hangar Complex Interest



Other Items