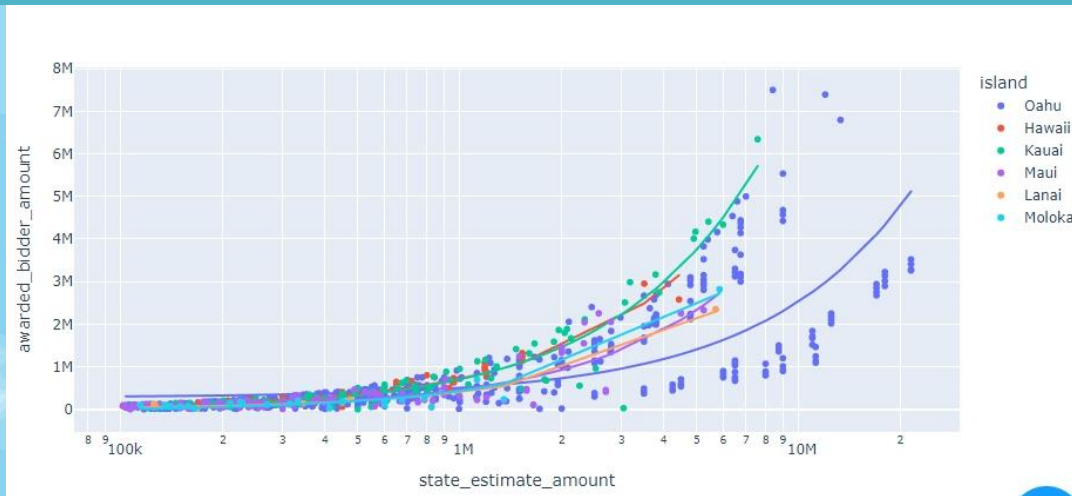
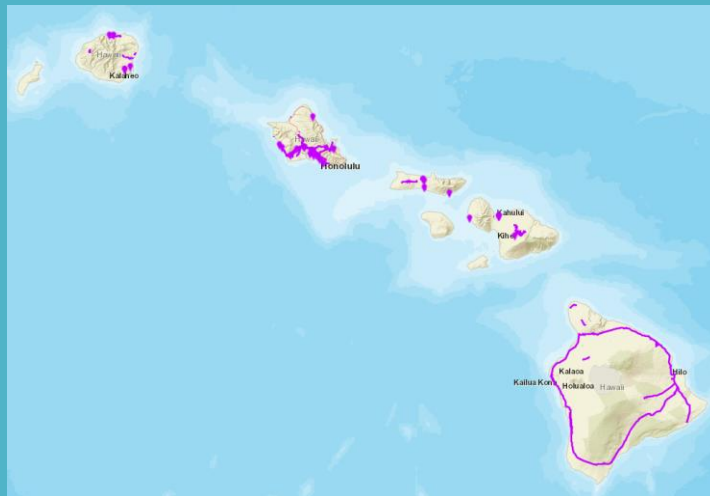


Hawaii DOT



Bid Tab Analysis

Maaza Mekuria

Bid-Tab Statistics

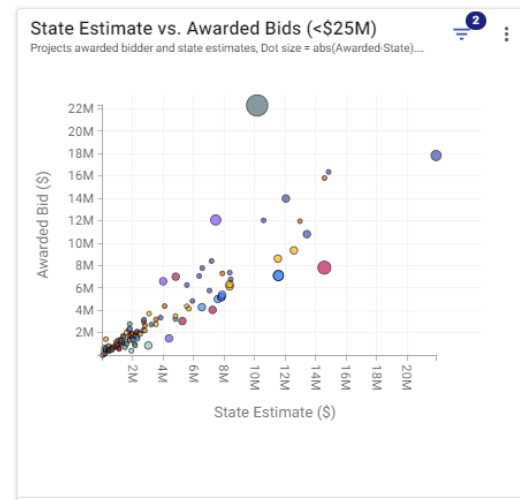
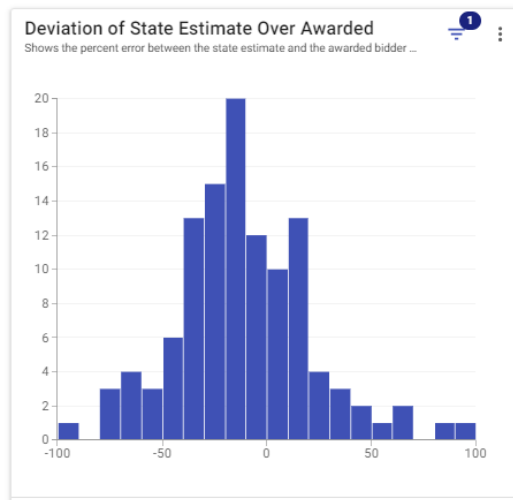
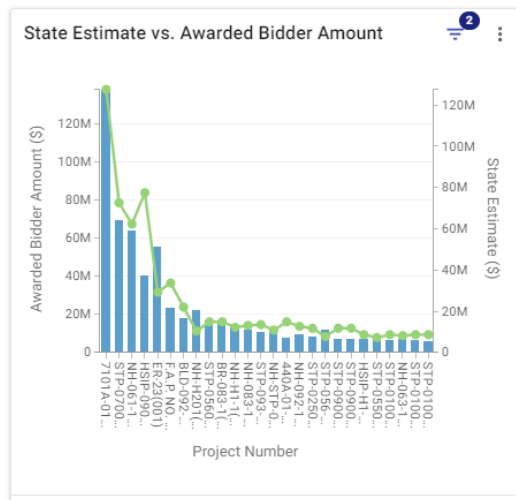
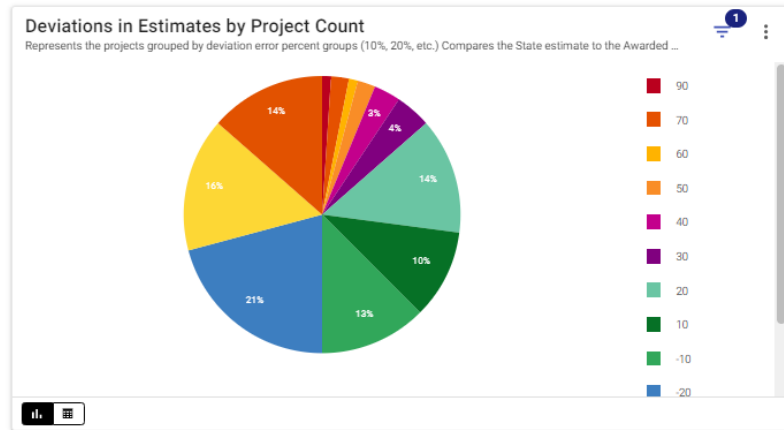
State Estimate vs Awarded Bid Cost

Deviation in Cost Estimates and General Statistics

This story attempts to capture the variability currently present in the HDOT Bid Dataset ([Bid Tab Data - Numeric Values](#) | [State of Hawaii Department of Transportation](#)), between the Awarded Bid cost and the State Engineers Estimate. The graphs show relevant statistics on projects and the deviation from the in-house engineers estimate. Tracking the variability is intended to help inform HDOT project managers to produce more accurate engineers estimate. The diagrams illustrate the deviation **between the awarded bidder amount and the state estimate**.

Note: this data represents bid amounts at the total project cost level and not on individual cost items.

Note: some projects bid tab data are excluded in these visualizations due to incorrect entries/anomalies in data.



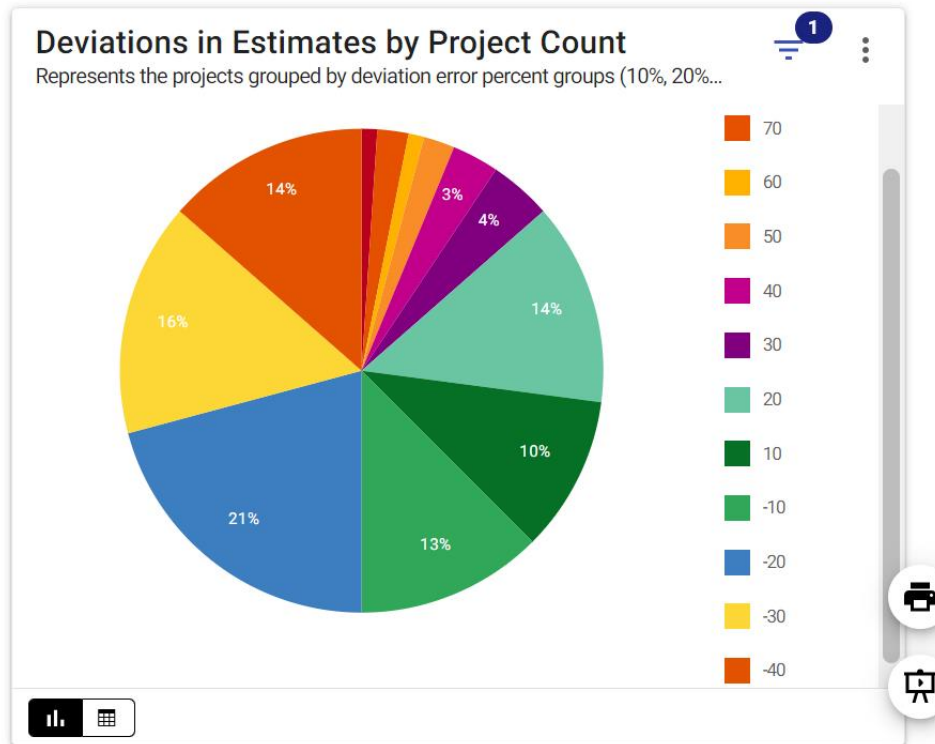
Bid-Tab Statistics

Deviation in Cost Estimates and General Statistics

This story attempts to capture the variability currently present in the HDOT Bid Dataset ([Bid Tab Data - Numeric Values | State of Hawaii Department of Transportation](#)), between the Awarded Bid cost and the State Engineers Estimate. The graphs show relevant statistics on projects and the deviation from the in-house engineers estimate. Tracking the variability is intended to help inform HDOT project managers to produce more accurate engineers estimate. The diagrams illustrate the deviation **between the awarded bidder amount and the state estimate.**

Note: this data represents bid amounts at the total project cost level and not on individual cost items.

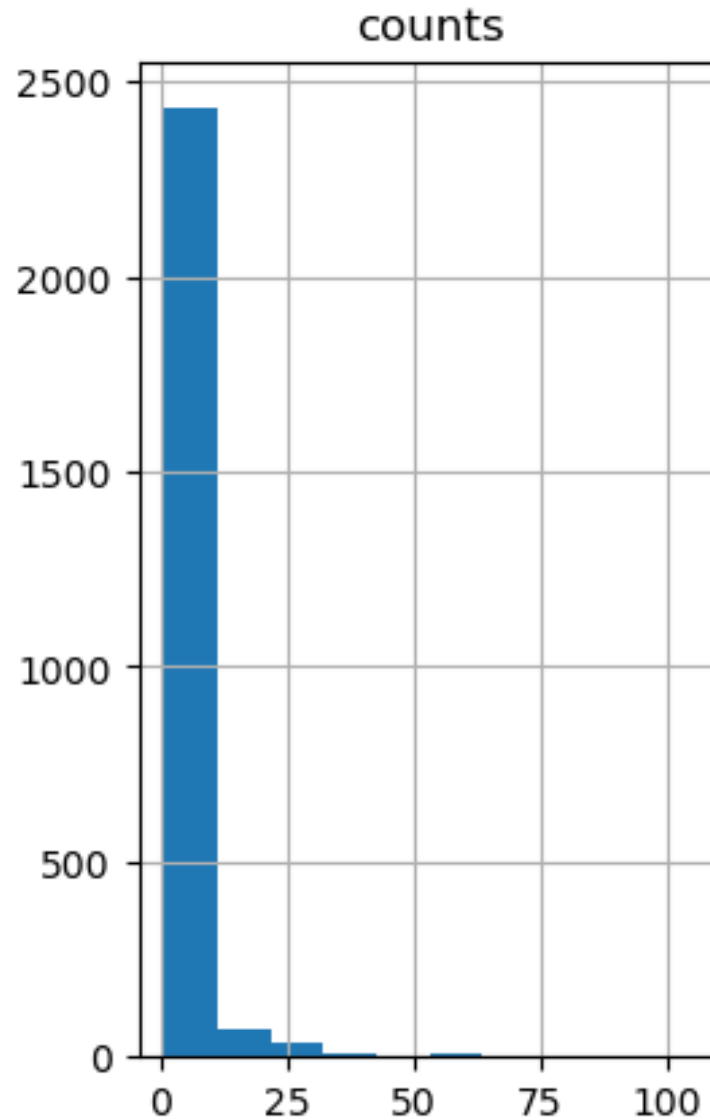
Note: some projects bid tab data are excluded in these visualizations due to incorrect entries/anomalies in data.



Total Projects used for analysis

island	Projects
Hawaii	13
Kauai	35
Lanai	4
Maui	38
Molokai	3
Oahu	80
Total	173

Project Items used for analysis by Neighborhoods



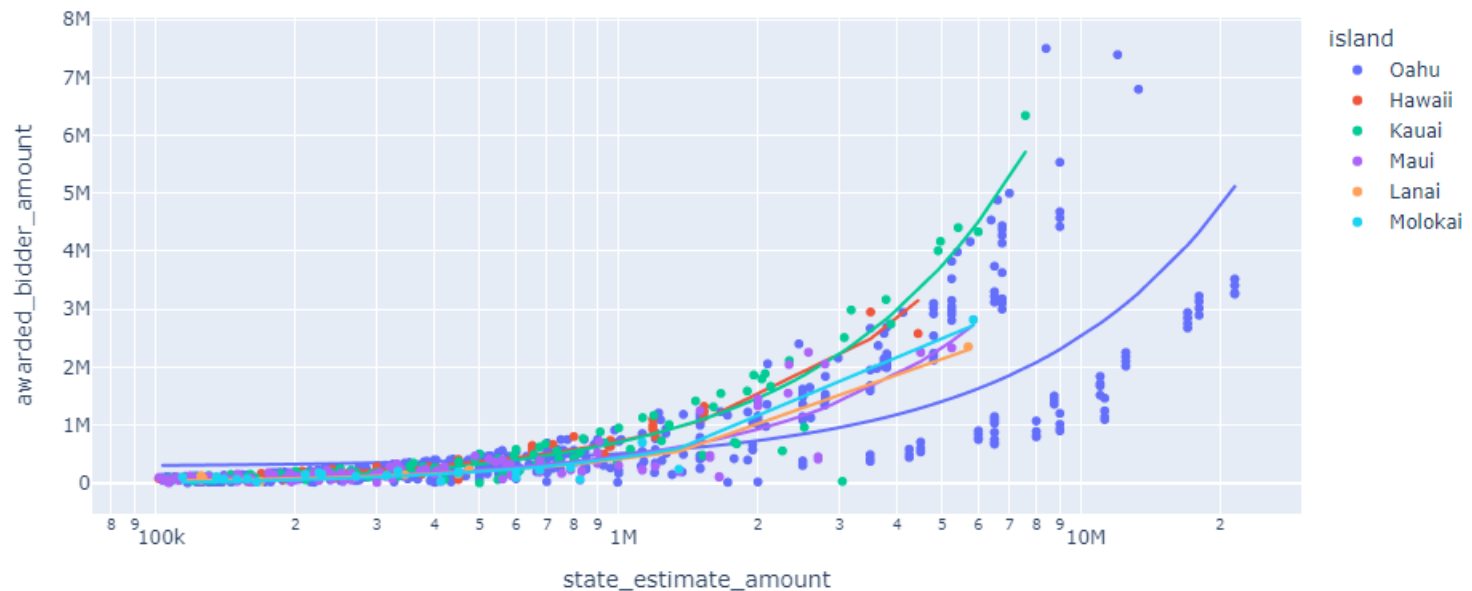
Project Items used for analysis by Neighborhoods

Total :	8731 ;	
district - Items		VARIOUS LOCATIONS 296
None -	2698	Lahaina 162 Area 3
Ewa	850	132 Area 4 131
Koolaupoko	339	Area 2 122
Lihue	307	Waianae 121
Koolauloa	292	Area 1 119
Wailuku	228	Makawao and
Honolulu	356	Wailuku 106
Wailuku, Makawao, Lahaina and Hana	225	ALL 100
Various	221	
Honolulu and Koolaupoko	213	
Hanalei	195	
Waimea	176	

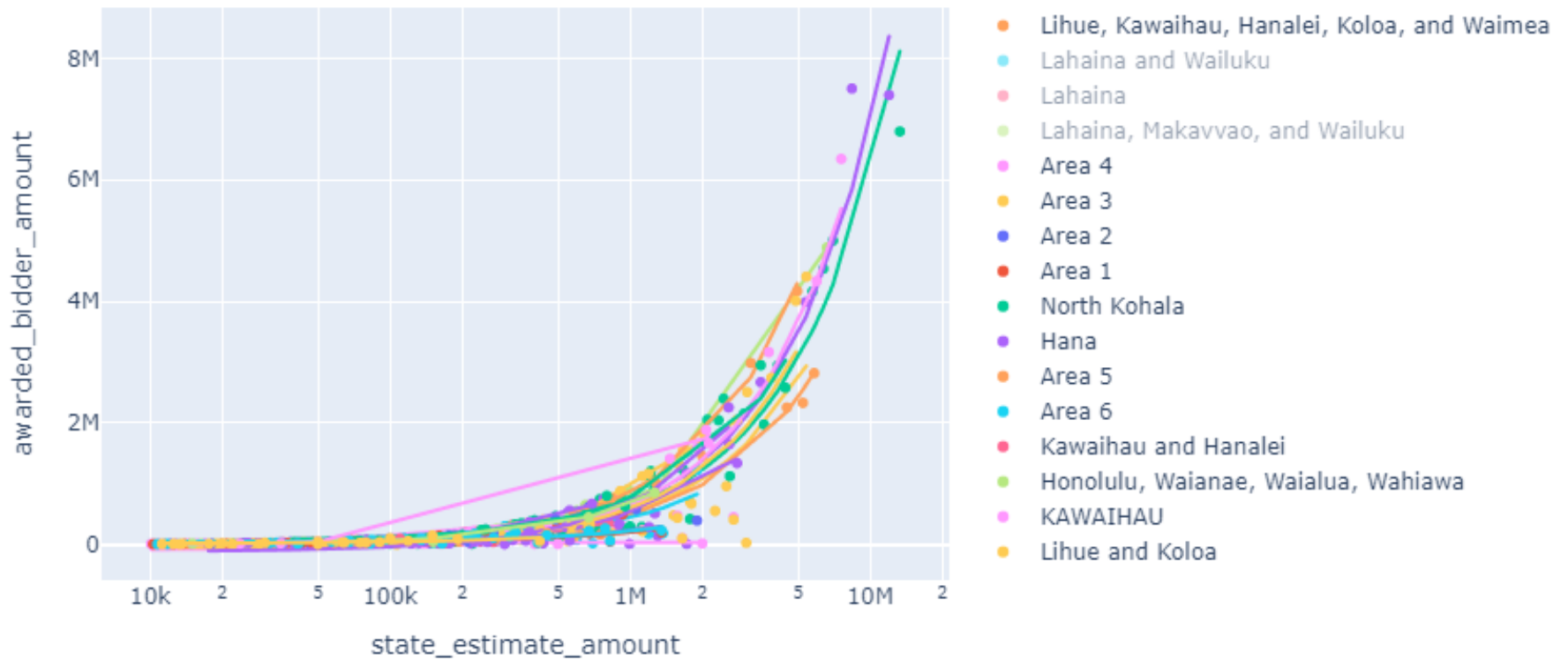
Bid-Tab Statistics

HI Bid range Tuesday, July 30, 2024 at 08:30:28 AM Bid Tabs from 2016 to 2024 total cost from 101250 to 24750000

Hawaii DOT: Summary of Tuesday, July 30, 2024 at 08:30:28 AM Bid Tabs from 2016 to 2024 total cost from 101250 to 24750000 by Year.



Bid-Tab Statistics by District

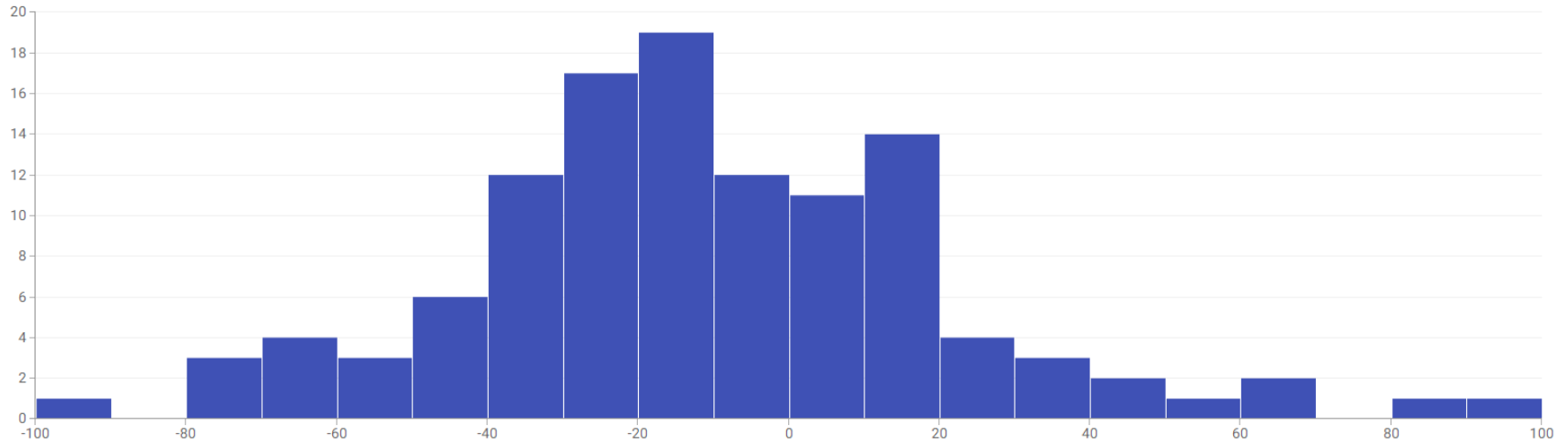


Bid-Tab Statistics

23% State Estimate is within 10% of award cost

Deviation of State Estimate Over Awarded

Shows the percent error between the state estimate and the awarded bidder amounts per project. Only shows error within -100% to 100%



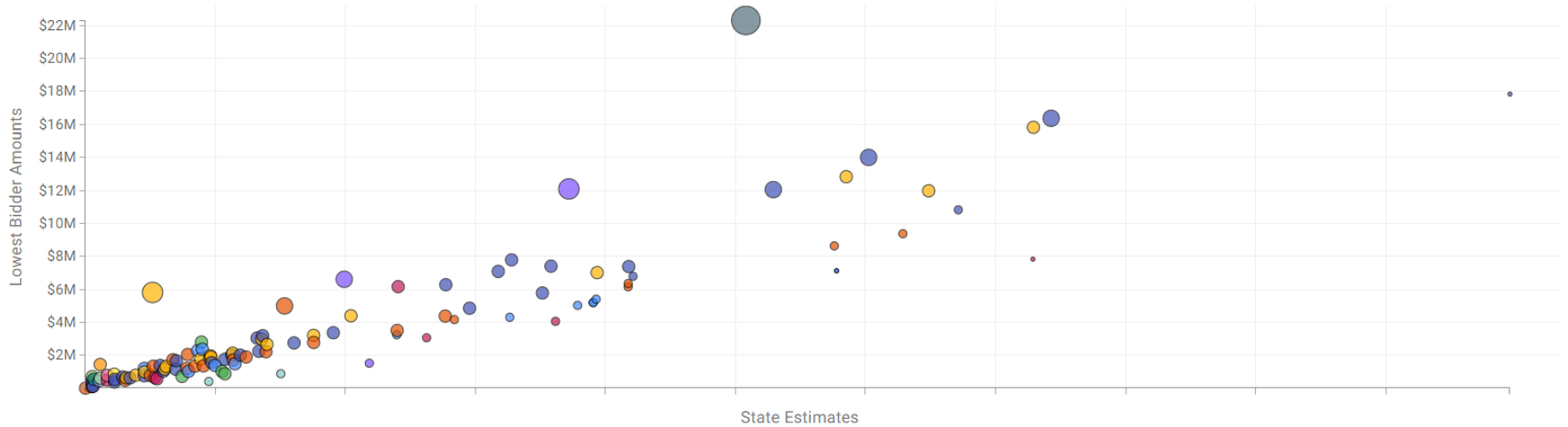
four...	lowes...	lowes...	seco...	seco...	third...	third...	four...	four...	state...	state...	awar...	awar...	lowes...	lowes...	awar...	awar...	awar...	lowes...	lowes...
94.52446...	0	0	588,124	42.61768...	688,571	49.89644...	865,000	62.68115...	-225,903.5	-16.3698...	19.57	20	19.57	20	225,903.5	19.57	20	225,904	20
-100.0	0	0	297,035.0...	10.81850...	-2,745,62...	-100	-2,745,62...	-100	466,684.6	16.99741...	-14.53	-20	-14.53	-20	466,684.6	14.53	20	466,685	20
-100.0	0	0	522,889.4...	26.09084...	580,289.46	28.95496...	-2,004,11...	-100	381,654.46	19.04358...	-16	-20	-16	-20	381,654.46	16	20	381,654	20
-100.0	0	0	253,406.5...	35.38138...	-716,214.4	-100	-716,214.4	-100	773,973.6	108.0645...	-51.94	-60	-51.94	-60	773,973.6	51.94	60	773,974	60
-100.0	0	0	64,537	1.917758...	-3,365,231	-100	-3,365,231	-100	450,726	13.39361...	-11.81	-20	-11.81	-20	450,726	11.81	20	450,726	20
-100.0	0	0	572,172.4...	28.38089...	1,075,692...	53.35649...	-2,016,04...	-100	236,162.42	11.71412...	-10.49	-20	-10.49	-20	236,162.42	10.49	20	236,162	20
-100.0	0	0	177,113.3...	6.663562...	-2,657,938	-100	-2,657,938	-100	137,812	5.184921...	-4.93	-10	-4.93	-10	137,812	4.93	10	137,812	10

Bid-Tab Statistics

State Estimate vs Lowest Bid Scatter

Low Bid Amounts vs. State Estimates (Projects under \$25M)

Plots projects based on their state estimate and their lowest bidder amounts. Limited to projects under \$25M for clarity.



Legend ^

Proje...	proje...	awar...	lowes...	seco...	third...	four...	state...	awar...	awar...	seco...	seco...	third...	third...	four...	four...	state...	state...	awar...	awar...
0	11B-01-20	1,380,000	\$1,380,00...	1,968,124	2,068,571	2,245,000	1,154,096...	0	0	588,124	42.61768...	688,571	49.89644...	865,000	62.68115...	-225,903.5	-16.3698...	225,903.5	19.57405...
1	30A-01-1...	2,745,621...	\$2,745,62...	3,042,656...	0	0	3,212,306	0	0	297,035.0...	10.81850...	-2,745,62...	-100	-2,745,62...	-100	466,684.6...	16.99741...	-466,684...	-14.5280...
2	30B-01-16	2,004,110...	\$2,004,11...	2,527,000	2,584,400	0	2,385,765	0	0	522,889.4...	26.09084...	580,289.46	28.95496...	-2,004,11...	-100	381,654.4...	19.04358...	-381,654...	-15.9971...
3	30DE-01-...	716,214.4	\$716,214...	969,621	0	0	1,490,188	0	0	253,406.5...	35.38138...	-716,214.4	-100	-716,214.4	-100	773,973.6	108.0645...	-773,973.6	-51.9379...
4	311A-01-...	3,365,231	\$3,365,23...	3,429,768	0	0	3,815,957	0	0	64,537	1.917758...	-3,365,231	-100	-3,365,231	-100	450,726	13.39361...	-450,726	-11.8116...
5	311A-01-...	2,016,047...	\$2,016,04...	2,588,220	3,091,740	0	2,252,210	0	0	572,172.4...	28.38089...	1,075,692...	53.35649...	-2,016,04...	-100	236,162.4...	11.71412...	-236,162...	-10.4858...

Bid-Tab Statistics

Acknowledgments:

Desmond Lum , HDOT for Chart Visuals

HDOT Administrator George Abcede for permission to
share results

All errors and omissions belong to Maaza Mekuria and
maybe sent via email to maaza.c.mekuria@hawaii.gov