

Hawaii Agricultural Theft and Vandalism



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In Cooperation with the Hawaii Department of Agriculture

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Agriculture Theft and Crime Cost Hawaii Farm Producers \$14.4 million in 2019

The total value of theft and vandalism losses, as well as security costs, from Hawaii farms is estimated at \$14.4 million or 10% of the 2018 Hawaii net farm income of \$142 million estimated by USDA, Economic Research Service. Total theft of farm commodities, materials, equipment, and other property is pegged at \$2.62 million. Statewide vandalism cost to farms in Hawaii totaled \$502 thousand. Total security costs to prevent theft and/or vandalism totaled \$11.2 million.

The survey showed 3,616 incidents of theft, 1,112 incidents of vandalism, and 14,262 trespassing incidents during 2019. Of these, 970 were reported to law enforcement. The number of arrests resulting from the reported incidents is estimated at 79, resulting in 67 people found guilty in a court of law. Survey respondents indicated the elapsed time between report of an incident of theft, vandalism, or trespassing and response from the Enforcement Agency was less than 3 days 95 percent of the time.

Survey respondents compared crime levels during 2019 to 2014. Nineteen percent of respondents perceived an increase in crime level, 68 percent indicated that crime remained the same, and 13 percent thought crime levels had decreased. Respondents were asked about their level of familiarity with the Hawaii Department of Agriculture's efforts to deter agricultural theft by using ownership and movement certificates. Based on survey results, 81 percent were not familiar, 13 percent were familiar, but had not filled out the certificates, and 6 percent were familiar and had completed the certificates.

The results of the survey show that 14 percent of farms in the State suffered theft or vandalism during 2019. Honolulu County suffered the highest rate of theft and/or vandalism at 25 percent of all farms. Hawaii County had the second highest rate at 15 percent. Kauai County was third at 9 percent and Maui had the lowest rate at 7 percent. Hawaii County reported the highest cost attributed to security measures at \$7.78 million, followed by Honolulu at \$1.62 million, Kauai at \$1.03 million, and Maui at \$792 thousand.

Table 1. Theft and Vandalism Losses and Security Measure Costs, by County, 2019

County	Lo	esses	Security Measure	Total
County	Theft	Vandalism	Costs	Total
		\$1	,000	
Hawaii	1,583	217	7,783	9,583
Honolulu	250		1,619	
Kauai	612		1,033	
Maui	178	157	792	1,127
Other Cntys	0	128	0	
State Total	2,623	502	11,227	14,352

Counties not meeting NASS publication standards (denoted by "--") are combined and shown under "Other Cntys" and included in State totals. County Totals are not shown in these instances and will not add to State Total.

Table 2. Theft by Category, State of Hawaii, 2019

	<u> </u>	
Type of Theft	Incidents	Amount of Loss
	number	\$1,000
Crop	2,487	1,215
Livestock ^{1/}	301	172
Chemical/Fertilizer	162	35
Machinery/Equipment	393	856
Other Property	273	345
State Total	3,616	2,623

^{1/} Livestock includes cattle, poultry, aquaculture, bee & honey, and all other livestock.

Table 3. Theft Incidents, by Type of Theft, by County, 2019

	Type of Theft								
County	Crop	Livestock	Chemical/ Fertilizer	Machinery/ Equipment	Other Property	Total			
			nur	nber					
Hawaii	1,342	189	49	193	180	1,953			
Honolulu	522	13	82	132	35	784			
Kauai	281	58	12	36	15	402			
Maui	342	41	19	32	43	477			
State Total	2,487	301	162	393	273	3,616			

Table 4. Amount of Loss Due to Theft, by Type of Theft, by County, 2019

	Type of Theft								
County	Crop	Livestock	Chemical/ Fertilizer	Machinery/ Equipment	Other Property	Total			
			\$1,0	000					
Hawaii	854	91	10	445	183	1,583			
Honolulu	115	5	7	108	15	250			
Kauai	186	45	9	277	95	612			
Maui	60	31	9	26	52	178			
State Total	1,215	172	35	856	345	2,623			

Table 5. Theft Incidents, by Type of Theft, by Commodity Group, 2019

rable 5. There	incluents,	by type of ti	neit, by Com	modity Group	, 2019			
	Type of Theft							
Type of Farm	Crop	Livestock	Chemical/ Fertilizer	Machinery/ Equipment	Other Property	Total		
			nun	nber				
Fruit	1,625	6	46	115	25	1,817		
Vegetable	425	3	92	89	29	638		
Livestock 1/	17	218	3	56	98	392		
Macadamia nut	39	0	10	13	28	90		
Coffee	148	3	0	15	0	166		
Floriculture	28	0	9	25	64	126		
Other	205	71	2	80	29	387		
State Total	2,487	301	162	393	273	3,616		

^{1/} Livestock includes cattle, poultry, aquaculture, bee & honey, and all other livestock.

Table 6. Amount of Loss Due to Theft, by Type of Theft, by Commodity Group, 2019

	Type of Theft							
Type of Farm	Crop	Livestock	Chemical/ Fertilizer	Machinery/ Equipment	Other Property	Total		
				000				
Fruit	385	2	14	62	107	570		
Vegetable	375	3	18	105	97	598		
Livestock 1/	7	160	1	279	83	530		
Macadamia nut	85	0	1	2	5	93		
Coffee	313	1	0	107	0	421		
Floriculture	12	0	0	25	28	65		
Other	38	6	1	276	25	346		
State Total	1,215	172	35	856	345	2,623		

^{1/} Livestock includes cattle, poultry, aquaculture, bee & honey, and all other livestock.

Table 7. Theft Incidents, by Type of Theft, by Economic Size of Farm, 2019

	Type of Theft								
Agricultural Sales	Crop	Livestock	Chemical/ Fertilizer	Machinery/ Equipment	Other Property	Total			
			Num	ber					
Over \$500,000	206	16	4	66	66	358			
\$100,000 to 499,999	785	23	13	97	16	934			
\$50,000 to 99,999	40	67	6	20	23	156			
\$10,000 to 49,999	219	133	16	61	85	514			
Under \$10,000	1,237	62	123	149	83	1,654			
State Total	2,487	301	162	393	273	3,616			

Table 8. Amount of Loss Due to Theft, by Type of Theft, by Economic Size of Farm, 2019

10.0.00	Type of Theft								
Agricultural Sales	Crop	Livestock	Chemical/ Fertilizer	Machinery/ Equipment	Other Property	Total			
			\$1,	000					
Over \$500,000	208	22	1	415	24	670			
\$100,000 to 499,999	340	13	12	94	96	555			
\$50,000 to 99,999	11	36	2	14	29	92			
\$10,000 to 49,999	38	43	2	21	17	121			
Under \$10,000	618	58	18	312	179	1,185			
State Total	1,215	172	35	856	345	2,623			

Table 9. Vandalism by Category, State of Hawaii, 2019

Table 9. Validatish by Category, State of Hawaii, 2019							
Type of Vandalism	Incidents	Amount of Loss					
	number	\$1,000					
Crop	465	66					
Livestock ^{1/}	88	59					
Chemical/Fertilizer	29	12					
Machinery/Equipment	78	216					
Other Property	452	149					
State Total	1,112	502					

^{1/} Livestock includes cattle, poultry, aquaculture, bee & honey, and all other livestock.

Table 10. Vandalism Incidents, by Type of Vandalism, by County, 2019

	Type of Vandalism							
County	Crop	Livestock	Chemical/ Fertilizer	Machinery/ Equipment	Other Property	Total		
			numi	ber				
Hawaii	291	29	0	39	328	687		
Honolulu	115			14	18			
Kauai	8			8	19			
Maui	51	17	20	17	87	192		
Other Cntys	0	42	9	0	0			
State Total	465	88	29	78	452	1,112		

Counties not meeting NASS publication standards (denoted by "--") are combined and shown under "Other Cntys" and included in State totals. County Totals are not shown in these instances and will not add to State Total.

Table 11. Amount of Loss Due to Vandalism, by Type of Vandalism, by County, 2019

		, , , , ,	,	•			
Type of Vandalism							
Cron	Livootook	Chemical/	Machinery/	Other	Total		
Crop	Livestock	Fertilizer	Equipment	Property	Total		
		\$1,0	000				
25	32	0	70	90	217		
26			18	11			
4			11	34			
11	6	9	117	14	157		
0	21	3	0	0			
66	59	12	216	149	502		
	25 26 4 11 0	25 32 26 4 11 6 0 21	Type of \ Crop Livestock Chemical/ Fertilizer 25 32 0 26 4 11 6 9 0 21 3	Type of Vandalism Crop Livestock Chemical/Fertilizer Machinery/Equipment	Type of Vandalism Crop Livestock Chemical/ Fertilizer Equipment Property 25 32 0 70 90 26 18 11 4 11 34 11 6 9 117 14 0 21 3 0 0		

Counties not meeting NASS publication standards (denoted by "--") are combined and shown under "Other Cntys" and included in State totals. County Totals are not shown in these instances and will not add to State Total.

Table 12. Vandalism Incidents, by Type of Vandalism, by Commodity Group, 2019

Table 12: Validalisiii	moraonto,	by Type of V	andanom, by	Commodity	Ordap, zoro			
	Type of Vandalism							
Type of Farm	Cron	Livestook	Chemical/	Machinery/	Other	Total		
	Crop	Livestock	Fertilizer	Equipment	Property	Total		
			nun	nber				
Fruit	411	0		20	50			
Vegetable	6	0	0	11	37	54		
Livestock 1/	3	74	0	25	212	314		
Macadamia nut	12	0		0	18			
Coffee	19	14	0		5			
Floriculture	14	0	0		87			
Other	0	0	0	18	43	61		
Unpublished	0	0	29	4	0			
State Total	465	88	29	78	452	1,112		

Type of vandalism not meeting NASS publication standards (denoted by "--") are combined and shown under "Unpublished" and included in State totals. The Type of Farm Totals are not shown in these instances and will not add to State Total.

1/ Livestock includes cattle, poultry, aquaculture, bee & honey, and all other livestock.

Table 13. Amount of Loss Due to Vandalism, by Type of Vandalism, by Commodity Group, 2019

	Type of Vandalism						
Type of Farm	Crop	Livestock	Chemical/	Machinery/	Other	Total	
	Стор	LIVESTOCK	Fertilizer	Equipment	Property	Total	
			\$1	,000			
Fruit	40	0		64	19		
Vegetable	1	0	0	12	31	44	
Livestock 1/	1	56	0	10	71	138	
Macadamia nut	5	0		0	1		
Coffee	10	3	0		1		
Floriculture	9	0	0		2		
Other	0	0	0	126	24	150	
Unpublished	0	0	12	4	0		
State Total	66	59	12	216	149	502	

Type of vandalism not meeting NASS publication standards (denoted by "--") are combined and shown under "Unpublished" and included in State totals. The Type of Farm Totals are not shown in these instances and will not add to State Total.

1/ Livestock includes cattle, poultry, aquaculture, bee & honey, and all other livestock.

Table 14. Vandalism Incidents, by Type of Vandalism, by Economic Size of Farm, 2019

			Type of \	/andalism			
Agricultural Sales	Crop	Livestock	Chemical/ Fertilizer	Machinery/ Equipment	Other	Total	
	·		1		Property		
Over \$500,000	6	14	0	16	54	90	
\$100,000 to 499,999	20	3	0	6	16	45	
\$50,000 to 99,999	0	6	0	27	78	111	
\$10,000 to 49,999	40			3	260		
Under \$10,000	399			26	44		
Unpublished	0	65	29	0	0		
State Total	465	88	29	78	452	1,112	

Type of vandalism not meeting NASS publication standards (denoted by "--") are combined and shown under "Unpublished" and included in State totals. The Agricultural Sales Totals are not shown in these instances and will not add to State Total.

Table 15. Amount of Loss Due to Vandalism, by Type of Vandalism, by Economic Size of Farm, 2019

			Type of \	/andalism		
Agricultural Sales			Chemical/	Chemical/ Machinery/		Total
-	Crop	Livestock	Fertilizer	Fertilizer Equipment		Total
		\$1,000				
Over \$500,000	1	3	0	124	14	142
\$100,000 to 499,999	10	3	0	9	35	57
\$50,000 to 99,999	0	4	0	11	9	24
\$10,000 to 49,999	18			48	68	
Under \$10,000	37			24	23	
Unpublished	0	49	12	0	0	
State Total	66	59	12	216	149	502

Type of vandalism not meeting NASS publication standards (denoted by "--") are combined and shown under "Unpublished" and included in State totals. The Agricultural Sales Totals are not shown in these instances and will not add to State Total.

Table 16. Amount Spent on Security Measures to Prevent Theft, Vandalism, or Trespassing, by County. 2019

		<u> </u>	by County, 2019					
	Security Measure							
County	Security System	Guards	Fences, Locks, Barriers, etc.	Dogs	Other	Total		
	\$1,000							
Hawaii	587	460	5,745	625	366	7,783		
Honolulu	348	411	640	115	105	1,619		
Kauai	240	382	310	62	39	1,033		
Maui	125	24	531	54	58	792		
State Total	1,300	1,277	7,226	856	568	11,227		

Table 17. Amount Spent on Security Measures to Prevent Theft, Vandalism, and Trespassing, by Commodity Group, 2019

	by Co	ommodity G	roup, 2019				
	Security Measures						
Type of Farm	Security System	Guards	Fences, Lock, Barriers, etc.	Dogs	Other	Total	
	\$1,000						
Fruit	155	216	808	167	75	1,421	
Vegetable	94	78	711	105	12	1,000	
Livestock 1/	447	144	2,793	408	66	3,858	
Macadamia nut	23	104	1,575	6	16	1,724	
Coffee	33	148	473	46	4	704	
Floriculture	140	47	190	78	5	460	
Other	408	540	676	46	390	2,060	
State Total	1,300	1,277	7,226	856	568	11,227	

1/ Livestock includes cattle, poultry, aquaculture, bee & honey, and all other livestock.

Table 18. Trespassing Incidents, by County, 2019

, commy, =010				
County	Trespassing Incidents			
	number			
Hawaii	8,861			
Honolulu	2,601			
Kauai	743			
Maui	2,057			
State Total	14,262			

Table 19. Trespassing Incidents, by Economic Size of Farm, 2019

Agricultural Sales	Trespassing Incidents
	number
Over \$500,000	1,643
\$100,000 to 499,999	1,583
\$50,000 to 99,999	3,145
\$10,000 to 49,999	6,331
Under \$10,000	1,560
State Total	14,262

Table 20. Trespassing Incidents, by Commodity Group, 2019

rubic 20. Trespussing molacites, by Commodity Croup, 2010				
Trespassing Incidents				
number				
1,806				
2,780				
3,365				
3,715				
1,019				
645				
932				
14,262				
	Trespassing Incidents number 1,806 2,780 3,365 3,715 1,019 645 932			

^{1/} Livestock includes cattle, poultry, aquaculture, bee & honey, and all other livestock.

Table 21. Level of Prosecution of Theft, Vandalism, and Trespassing Incidents, by County, 2019

	Level of Prosecution				
County	Reported to Police	Arrested	Convicted		
		number			
Hawaii	636				
Honolulu	109				
Kauai	91				
Maui	134				
Other Cntys	0	79	67		
State Total	970	79	67		

Counties not published are combined and shown under "Other Cntys" and included in State totals.

Table 22. Level of Prosecution of Theft, Vandalism, and Trespassing Incidents, by Commodity Group. 2019

	by commodity croup	J, 2013			
Turn of Corm	Level of Prosecution				
Type of Farm	Reported to Police Arrested		Convicted		
		number			
Fruit	381				
Vegetable	71				
Livestock 1/	206				
Macadamia nut	83				
Coffee	56				
Floriculture	104				
Other	69				
Unpublished	0	79	67		
State Total	970	79	67		

Level of Prosecution not published (denoted by "--") are combined and shown under "Unpublished" and included in State totals. 1/ Livestock includes cattle, poultry, aquaculture, bee & honey, and all other livestock.

Table 23. Level of Prosecution of Theft, Vandalism, and Trespassing Incidents, by Economic Size of Farm, 2019

A gricultural Calaa	Level of Prosecution					
Agricultural Sales	Reported to Police Arrested		Convicted			
		number				
Over \$500,000	118					
\$100,000 to 499,999	153					
\$50,000 to 99,999	76					
\$10,000 to 49,999	163					
Under \$10,000	460					
Unpublished	0	79	67			
State Total	970	79	67			

Level of Prosecution not published (denoted by "--") are combined and shown under "Unpublished" and included in State totals.

Table 24. Elapsed Time Between Report of Incident of Theft/Vandalism/Trespassing and Response from Enforcement Agency, by County, 2019

County				# of Days				
County	< 3	4 – 7	8 – 14	15 – 30	31 - 180	> 180	Total	
		percentage						
Hawaii	95	1	1	1	1	1	100	
Honolulu	93	0	0	0	2	5	100	
Kauai	100	0	0	0	0	0	100	
Maui	93	5	2	0	0	0	100	
State Total 1/	95	1	1	1	1	1	100	

^{1/}The State Total percentages are weighted averages based on reported data for each category. Therefore, the straight average of each category will not equal the State Total.

Table 25. Elapsed Time Between Report of Incident of Theft/Vandalism/Trespassing and Response from Enforcement Agency, by Commodity Group, 2019

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Type of Form	# of Days						
Type of Farm	< 3	4 - 7	8 - 14	15 – 30	31 - 180	> 180	Total
	percentage						
Fruit	98	1	0	0	1	0	100
Vegetable	92	0	0	0	0	8	100
Livestock 1/	89	5	3	0	0	3	100
Macadamia nut	95	0	2	3	0	0	100
Coffee	100	0	0	0	0	0	100
Floriculture	92	0	4	4	0	0	100
Other	96	0	0	0	4	0	100
State Total 2/	95	1	1	1	1	1	100

 $^{1/\,}Live stock\ includes\ cattle,\ poultry,\ aquaculture,\ bee\ \&\ honey,\ and\ all\ other\ live stock.$

Table 26. Elapsed Time Between Report of Incident of Theft/Vandalism/Trespassing and Response from Enforcement Agency, by Economic Size of Farm, 2019

# of Days							
< 3	4 - 7	8 - 14	15 - 30	31 - 180	> 180	Total	
			- percentage				
91	0	3	0	3	3	100	
91	4	0	2	0	3	100	
94	0	0	0	0	6	100	
96	0	2	0	2	0	100	
97	1	1	1	0	0	100	
95	1	1	1	1	1	100	
	91 91 94 96 97	91 0 91 4 94 0 96 0 97 1	91 0 3 91 4 0 94 0 0 96 0 2 97 1 1	<3 4 - 7 8 - 14 15 - 30 91 0 3 0 91 4 0 2 94 0 0 0 96 0 2 0 97 1 1 1	<3 4 - 7 8 - 14 15 - 30 31 - 180 91 0 3 0 3 91 4 0 2 0 94 0 0 0 0 96 0 2 0 2 97 1 1 1 0	<3 4 - 7 8 - 14 15 - 30 31 - 180 > 180 percentage 91 0 3 0 3 3 91 4 0 2 0 3 94 0 0 0 0 6 96 0 2 0 2 0 97 1 1 1 0 0	

^{1/}The State Total percentages are weighted averages based on reported data for each category. Therefore, the straight average of each category will not equal the State Total.

^{2/} The State Total percentages are weighted averages based on reported data for each category. Therefore, the straight average of each category will not equal the State Total.

Table 27. Five-year Change in Level of Crime, Reported as a Percentage of Respondents, by County, 2019

County	Level of Change						
County	Increased	Decreased	No Change				
Hawaii	20	12	68				
Honolulu	20	35	45				
Kauai	16	8	76				
Maui	14	8	78				
State Total 1/	19	13	68				

^{1/}The State Total percentages are weighted averages based on reported data for each category. Therefore, the straight average of each category will not equal the State Total.

Table 28. Five-year Change in Level of Crime, Reported as a Percentage of Respondents, by Commodity Group, 2019

	by commounty cro	up, _0.0				
Turn of Form	Level of Change					
Type of Farm	Increased Decreased		No Change			
	percentage					
Fruit	28	12	60			
Vegetable	22	28	50			
Livestock 1/	11	14	75			
Macadamia nut	16	12	72			
Coffee	20	13	67			
Floriculture	8	6	86			
Other	19	19	62			
State Total ^{2/}	19	13	68			

^{1/}Livestock includes cattle, poultry, aquaculture, bee & honey, and all other livestock.

Table 29. Familiarity with HDOA's Ownership and Movement Certificate Requirement, by County, 2019

	Level of Familiarity					
County		Familiar,	Familiar,			
	None	Certificates not Utilized	Certificates Utilized	Other	Total	
			percentage			
Hawaii	72	20	8	0	100	
Honolulu	95	3	2	0	100	
Kauai	84	12	4	0	100	
Maui	95	3	2	0	100	
State Total 1/	81	13	6	0	100	

^{1/}The State Total percentages are weighted averages based on reported data for each category. Therefore, the straight average of each category will not equal the State Total.

^{2/} The State Total percentages are weighted averages based on reported data for each category. Therefore, the straight average of each category will not equal the State Total.

Table 30. Familiarity with HDOA's Ownership and Movement Certificate Requirement, by Commodity Group, 2019

	<i>b</i> , 00	ininiounty Group,					
	Level of Familiarity						
Type of Farm	None	Familiar, Certificates	Familiar, Certificates	Other	Total		
	None	not Utilized	Utilized	Other	Total		
			percentage				
Fruit	84	11	5	0	100		
Vegetable	93	6	1	0	100		
Livestock 1/	78	14	8	0	100		
Macadamia nut	64	20	16	0	100		
Coffee	67	25	8	0	100		
Floriculture	94	5	1	0	100		
Other	84	16	0	0	100		
State Total ^{2/}	81	13	6	0	100		

^{1/} Livestock includes cattle, poultry, aquaculture, bee & honey, and all other livestock.

Table 31. Familiarity with HDOA's Ownership and Movement Certificate Requirement, by Economic Size of Farm, 2019

	D,	y Economic dize c	71 1 allili, 2013						
	Level of Familiarity								
Agricultural Sales	None	Familiar, Certificates not Utilized	Familiar, Certificates Utilized	Other	Total				
Over \$500,000	77	17	6	0	100				
\$100,000 to 499,999	52	16	32	0	100				
\$50,000 to 99,999	73	19	8	0	100				
\$10,000 to 49,999	85	13	2	0	100				
Under \$10,000	83	13	4	0	100				
State Total 1/	81	13	6	0	100				

^{1/}The State Total percentages are weighted averages based on reported data for each category. Therefore, the straight average of each category will not equal the State Total.

^{2/} The State Total percentages are weighted averages based on reported data for each category. Therefore, the straight average of each category will not equal the State Total.