PERIODICAL

1940

REPORT

OF THE

Board of Commissioners of Agriculture and Forestry

OF THE

TERRITORY OF HAWAII

FOR THE

Biennial Period Ended December 31, 1940

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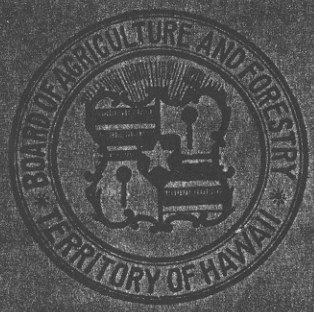

REPORT OF THE DIRECTOR, DIVISION OF FISH AND GAME

JANUARY 1, 1939 to DECEMBER 31, 1940

Board of Commissioners of
Agriculture and Forestry
Honolulu, T. H.

Gentlemen:

I have the honor to submit the following report which covers the principal activities of this division for the biennium ending December 31, 1940.

LICENSES AND STATISTICS

During the biennial period ending December 31, 1940 the following licenses and permits were issued and monies collected:

TABLE I

	1939		1940	
	Number	Amount	Number	Amount
Alien Commercial Fishing	332	$ 1,660.00	301	$ 1,505.00
Alien Employer Fishing	194	970.00	161	805.00
Alien Employee Fishing	851	4,255.00	706	3,530.00
Citizen Commercial Fishing	83	.....	68	.....
Citizen Employer Fishing	336	.....	300	.....
Citizen Employee Fishing	1,327	.....	1,037	.....
Alien Powerboat	287	1,927.40	250	1,810.25
Citizen Powerboat	276	2,209.50	241	1,942.90
Alien Rowboat	211	211.00	165	165.00
Citizen Rowboat	221	221.00	201	201.00
Night Angling	675	3,375.00	589	2,945.00
Throw Net	57	570.00	48	480.00
Lobsters	....	58.00	....	62.50
Mullet	173	865.00	147	735.00
Boat Numbers	991	495.50	862	431.00
Metal Tags	3,890	389.00	3,208	320.80
Sale of Fish	....	200.00	....	200.00
Territorial Hunting License	....	200.00	....	295.00
Game Bird Farming	....	4.00	....	1.00
		$17,610.40		$15,429.45

TABLE II

Totals by Islands:	1939	1940
East-Hawaii	$ 2,120.80	$ 1,915.70
West-Hawaii-Kohala	762.20	449.55
West-Hawaii-Kona	1,082.15	1,060.05
Kauai	1,928.05	1,977.25
Maui	1,396.05	739.50
Molokai	1,121.35	889.15
Oahu	9,199.80	8,398.25
	$17,610.40	$15,429.45

TABLE III
HUNTING LICENSES ISSUED

From the following Counties: January 1939 to December 1940

Counties:	1939	1940	Total for Biennium
City and County of Honolulu ..	$ 930.50	$ 1,748.00	
County of Maui	1,935.00	2,090.00	
County of Hawaii	2,095.00	1,730.00	
County of Kauai	3,153.75	2,677.75	
	$ 8,114.25	$ 8,245.75	$16,360.00

PATROL SERVICE

For the two-year period under review the Wardens made 659 arrests, of which 541 were convicted, resulting in fines and bail forfeitures of $6,014.50—this money accuring to the counties and City and County in which the violations occurred.

The result of the work by the wardens has been satisfactory in every way. They have shown wonderful cooperation and hard work. They have patrolled regularly in their respective districts at all hours of the day and night.

The following statements will show their work more in detail:

TABLE IV

Islands	Arrests	Convictions	Fines	Percentage of Conv'tns	Bail For'tr	Total
1939						
Hawaii	130	79	$1,030.00	60%	$ 910.00	
Kauai	25	25	625.00	100%	.....	
Maui	33	33	325.00	100%	.....	
Molokai	15	11	.....	80%	.....	
Oahu	217	207	1,210.00	95%	25.00	
	420	355	$3,190.00		$ 935.00	$4,125.00
1940						
Hawaii	105	67	$ 142.00	64%	$ 475.00	
Kauai	16	16	395.00	100%	.....	
Maui	20	16	117.50	80%	75.00	
Molokai	5	5	.....	100%	.....	
Oahu	93	82	390.00	88%	25.00	
	239	186	$1,314.50		$ 575.00	$1,889.50
	659	541	$4,504.50		$1,510.00	$6,014.50

Arrests by nationalities—year 1940 as follows:

Filipinos	157
Japanese	32
Hawaiians	18
Chinese	7
Caucasians	22
Koreans	3

TABLE V

The weights and the value of the fish catch for the years 1939 and 1940 as reported by the dealers and fishermen follows:

Kind of Fish	1939 Weight	1939 Value	1940 Weight	1940 Value
Aku	406,969	$ 23,648.70	2,112,115	$ 75,337.80
Ahi	1,943,695	223,488.60	1,703,072	222,016.17
Akule	717,537	134,821.28	742,572	139,037.11
A'u	997,727	128,911.76	1,229,429	161,176.45
Mahimahi	172,599	30,244.35	280,884	40,138.92
Moi	22,758	6,946.72	17,803	5,636.78
Mullet	107,686	21,696.44	133,984	30,128.65
Opakapaka	75,198	14,776.89	76,664	14,919.15
Opelu	164,131	22,733.20	167,608	22,349.16
Ula	25,615	6,909.88	18,651	5,988.42
Ulua	63,195	12,423.15	112,440	20,245.24
Weke	116,716	27,368.13	92,069	21,817.97
Miscellaneous	968,705	167,944.87	1,124,753	195,807.34
Aku sold to Cannery	8,197,799	327,911.96	11,308,218	452,328.72
Mullet sold by Pond Operators and Dealers	123,173	32,174.81	131,535	37,301.69
Miscellaneous sold by Pond Operators	157,942	27,776.95	151,452	24,458.70
	14,261,445	$ 1,209,777.69	19,403,249	$ 1,468,728.27

TABLE VI

MOKAPU GAME FARM AND EXPERIMENTAL STATION

The following figures will give you an idea of the work performed during the two year period under review:

Pheasants:			
On hand Jan. 1, 1939	17,947	Liberated	46,380
Raised	39,929	Balance, Dec. 31, 1940	11,496
	57,876		57,876
Guineas:			
On hand Jan. 1, 1939	2,943	Liberated	12,109
Raised	9,187	Balance, Dec. 31, 1940	21
	12,130		12,130
Junglefowl:			
On hand Jan. 1, 1939	495	Liberated	3,157
Raised	8,759	Balance Dec. 31, 1940	6,097
	9,254		9,254

During the biennium a total of 61,710 birds were liberated, as follows:

Island	Pheasants	Guineas	Junglefowl	Doves	Totals
Oahu	16,091	1,963	40	24	18,118
Kauai	6,316	1,300	857	....	8,473
Maui	11,800	1,351	2,140	....	15,291
Hawaii	10,540	550	120	20	11,230
Molokai	1,633	1,365	....	20	3,018
Lanai	....	5,580	....	....	5,580
Totals	46,380	12,109	3,157	64	61,710

Following are the totals for all kinds of birds on hand on December 31, 1940:

Pheasants	11,496
Guineas	21
Junglefowl	6,097
Partridges	156
Quail	124
Peafowl	5
Doves	510
Total	18,409

The Game Farm's crop of milo maize is also deserving of attention. Judging from our very gratifying experience with it, I believe it would be an excellent crop for Hawaii, and large quantities of it could be produced in the Territory very successfully. Where irrigation is available, even greater results could be had. Many cattlemen and others are well acquainted with the fine qualities of milo maize as a livestock feed. Our experience here at the Game Farm has proven it to be an excellent grain for growing birds. Our harvest of milo maize will go far towards furnishing the thousands of young pheasants and other birds the necessary nourishment.

The Game Farm began producing milo maize in 1937 under the direction of Mr. Locey. There was no CCC Camp at Mokapu then. All the work was done by a handful of territorial employees. In 1939 the milo maize at the Farm became a CCC project and that year they turned in about 46 tons. In 1940 by planting a larger acreage and by having a larger crew of boys working on the crop, the yield is about 105 tons.

Fish Culture

During the past two years considerable work was done by the Director and Wardens with the assistance of CCC boys in the matter of planting oyster seed. 215 cases of Pacific or northern oysters were received from Japan and planted in the Kuwaaohe government fishery in Kaneohe Bay. These 215 cases contained about 1000 oyster shells to the case with approximately 10 spat to the shell or a total of 2,150,000 spat. In addition to these imported oysters approximately 7,500 pounds of adult oysters (Ostrea virginica) were taken from the Ulumoku fish pond in Waipahu and replanted in the Punaluu government fishery in Kaneohe Bay. These adult oysters were from seed received in 1921 from Chesapeake Bay and planted in the Pearl Harbor area. A careful check is made by the Director on these oysters periodically in order to study their growth.

Trout Plantings

A shipment of 25,520 rainbow trout eggs have been received from the U. S. Bureau of Fisheries, Washington, in 1940. These were sent to Kauai and planted in the streams of Kokee. A small number of the eggs were planted in the Nuuanu Stream just mauka of the reservoir. Those planted on Kauai have done well but those in Nuuanu all died.

The defense projects undertaken by the Federal Government recently have taken on a considerable number of unemployed men who otherwise would have been spending their idle time fishing. The restrictions regarding fishing of all kinds along the waters of Pearl Harbor have driven commercial fishermen and other to the city and to seek other means of livelihood. Citizens—who in the past have been swarming the beaches from Aiea to Honouliuli for clams during the open season are now not permitted to dig for clams at all according to the new Federal regulations.

Respectfully submitted,

I. H. WILSON, Director.
Fish and Game Division.