GOVERNMENT OF THE PHILIPPINE ISLANDS DEPARTMENT OF COMMERCÉ AND COMMUNICATIONS BUREAU OF COMMERCE AND INDUSTRY

STATISTICAL BULLETIN No. 1

DEVOTED TO THE COMMERCIAL AND INDUSTRIAL DEVELOPMENT OF THE PHILIPPINE ISLANDS, COM-PILED FROM OFFICIAL RETURNS AND OTHER SOURCES, AND PUBLISHED

BY THE

BUREAU OF COMMERCE AND INDUSTRY



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EUREAU OF INTERNATIONAL RELATIONS

University of California

MANILA BUREAU OF PRINTING 1918

CONTENTS.

	Preface
1.	Population by provinces, arranged in order of density
	Immigration and emigration of aliens
	Value of most important imports
4.	Monthly imports of rice
5.	Annual imports of rice
	Thirteen greatest importing countries
	Annual exports of hemp
8	Annual exports of copra
0.	Copra and copra products in the Philippine Islands by H. W. Foster, Commercial Agent of the Bureau of Commerce and Industry
9.	Annual exports of sugar
10.	Annual exports of cigars
	Thirteen countries receiving the greatest exports
	Value of the most important exports
	Foreign trade of the Philippine Islands
	Foreign trade and trade balance
	Comparison of monthly foreign trade.
16.	Trade with the United States
17.	Foreign trade of important countries
18.	Commercial relation of important countries with the Philippine Islands
19.	Oriental trade of the Philippine Islands
	Internal revenue licenses issued (domestic trade)
21	Tonnage of foreign and domestic shipping
22.	Freight rates of chief commodities from Manila to important
<u>ი</u> ი	Insular ports
	Passenger rates from Manila to important Insular ports
44. 05	Land transportation (Manila Railroad Company)
49. 00	Automobiles registered
20.	Trucks registered
	Rice mills and their capacities
	Cigar production and tax collected
29.	Cigarette production and tax collected
	Distilled spirits production and tax collected
	Factories, and laborers engaged, in the city of Manila
	Areas of the larger islands in the Philippine Archipelago
	Annual disposition of public lands
34.	Area of land cultivated and average yield per hectare of im- portant crops
35.	Quantity and value of principal crops produced
	Consumption of rice in the Philippine Islands
	Production and consumption of rice by provinces
	Production of rice by provinces
	Production of hemp by provinces
	Production of sugar by provinces

41	Production of compo by providence
±1. 19	Production of copra by provinces
44. 13	Production of coconut oil by provinces
40. 11	Production of tobacco by provinces
44.	Monthly average prices of important crops in the Manila market.
40.	Livestock in existence in the Philippine Islands
40.	Livestock in existence in the provinces
41.	Utilization of forest products
48.	Utilization of minor forests products
49.	Domestic corporations classified according to nature of business
50.	Domestic corporations showing year of incorporation
	Domestic corporations by provinces where headquarters are located
52.	Foreign corporations registered in the Philippine Islands
53.	Partnerships registered in the Philippine Islands
54.	Resources and liabilities of all commercial banks
55.	Summary of the transactions of the Postal Savings Bank
56.	Philippine currency in circulation
57.	Revenue from taxation
58.	Functional activities of the Insular government
59.	Financial condition of the Insular government
60.	Bonded indebtedness of the Insular government
61.	Reserve fund for the redemption of the bonded indebtedness
	of the Insular government
62.	Real estate property and tax in the Philippine Islands
63.	Health statistics of the Philippine Islands
64.	Infant mortality in the Philippine Islands
65.	Health statistics of the city of Manila
66.	Public education
	The Philippine Public School System, by Dr. W. W. Marquardt, Director of Education
67.	Expenditures for public education
68.	Roads in existence
69.	Artesian wells drilled
70.	Postal and telegraph service
71.	Registered mail handled by all post offices
72.	Money orders
73.	Meteorological data for Manila Observatory
2.	The Climate of the Philippines by Rev. José Algué, S. J., Director
	of the Weather Bureau
	- the frequence bulcau

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PREFACE.

This is the first issue of a bulletin which the Bureau of Commerce and Industry will publish from time to time. Its aim is to furnish those who are interested in the economic development of the Islands with reliable data on the commercial and industrial development of this country.

Prepared at a time when the Bureau has not yet been completely organized, thus handicapped by the lack of necessary facilities, this first issue cannot claim perfection. With the coöperation, however, of other government bureaus and offices and the support of the general public whose criticisms and suggestions are always welcome, it is hoped that every subsequent issue will be a decided improvement over the previous one.

Acknowledgments are due the various bureaus and offices of the government for the valuable assistance rendered our statistical staff in connection with the preparation of this bulletin. Special mention is hereby made of Dr. W. W. Marquardt, Director of Education, and Father José Algué, S. J., Director of the Weather Bureau, for their contributions, the value of both of which has increased the usefulness of this bulletin to the people for whom it is intended.

> FIDEL A. REYES, Acting Director.

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STATISTICAL BULLETIN DEVOTED TO THE COMMERCIAL AND INDUSTRIAL DEVELOPMENT OF THE PHLIPPINE ISLANDS.

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TABLE No. 1.—Population of the Philippine Islands by provinces arranged in order of density.

				Popul	ation.		
Province.	Area a	190:	3 b	191) c	1918	d
	Alea	Number.	Per square mile.	Number.	Per square mile.	Number.	Per square mile.
	Sq. miles.						
City of Manila	20	219, 928	10,996	266, 246	13, 312	289,460	14,023
La Union		137,839	217	148,459	424	156,390	447
Cebu		653, 727	337	727, 955	390	766,830	411
Ilocos Sur	442	187,411	398	170,877	387	180,000	407
Cavite	464	134, 779	218	157,477	339	165,890	358
Pampanga	823	223, 754	258	270,070	328	284,500	346
Pangasinan	1,944	397, 902	334	535,025	275	563,600	- 290
Bulacan	1,007	223,742	191	251,249	250	264, 790	263
Laguna	722	148,606	236	175,401	243	184,770	256
Batangas		257, 715	215	286,643	226	301.950	246
Iloilo	2,040	410.315	202	454,911	223	479, 200	235
Bohol	1, 536	269, 223	178	307, 914	200	324, 360	211
Rizal	913	150, 923	206	180, 527	198	190, 170	208
Albay	1, 543	240, 326	135	292, 157	189	307.760	208
Misamis	1,030	175, 683	47	177, 128	172	186, 590	181
Capiz	1,710	230, 721	132	286.927	168	302,250	177
Antique	964	134, 166	118	159,870			
Leyte	3,005	388,922			166	168,410	175
llocos Norte	3,000		129	478, 480	159	504,030	- 168
Tarlac	1, 293	178, 995	135	185,446	143	195, 350	151
Oriental Negros	1,178	135, 107	112	167,738	142	176,700	150
Occidental Negros	1,902	201, 494	108	265, 202	139	279, 360	147
Romblen		308, 272	98	414, 113	133	436, 230	140
Romblon	497	52,848	92	66, 113	133	69, 640	140
Batanes	74			8,685	117	9,160	124
Bataan	480	46, 787	87	51,267	107	54,000	112
Ambos Camarines	2,851	239,405	73	293,012	103	308, 660	108
Sorsogon	2,274	164, 160	71	201,050	88	211, 790	93
Nueva Ecija	2,069	134, 147	62	168,026	81	177,000	86
Zambales	1,421	104, 549	49	110,634	78	116, 540	82
Cagayan	3,007	156, 239	31	192, 422	64	202,700	67
Samar	5,234	266,237	50	325,232	62	342,600	65
Tayabas	4, 195	204,739	48	254,052	61	267,620	64
Mountain	6,447	95, 495	36	387, 388	60	408,070	63
Abra	1,475	51,860	44	65,170	44	68,650	47
Surigao	2,889	115, 112	16	117.640	41	123, 920	43
isabela.	4,052	76,431	15	98.748	24	104,020	26
mindanao and Sulu:			10			101,000	
Sulu	1.082	120, 768	78	110,548	102	116,450	108
Lanao	2,439	100,100		79, 597	33	83,850	34
Zamboanga	6, 383	67,899	15	124, 869	20	131,540	21
Bukidnon	3,871	01,000	10	58, 150	15	61,260	16
Davao	7,486	65,496	7	109,921	15	115,790	16
Agusan	4.294	00,400	1 1	59,690	15	62,880	15
Cotabato	9, 620	125,875	11	97,661			15
Mindoro	9, 6 20 3, 983		11	91,001	10	102,870	17
Palawan		39, 582	10	63,777	16	67, 180	
Nueva Vizcaya	5,619	35,696	6	65, 131	12	68,610	13
acta vizcaya	3, 530	62, 531	3 2	34, 665	10	36, 520	11
Philippine Islands	114, 420	7, 635, 426	67	9, 503, 271	83	° 10, 010, 810	87

^a Furnished by the Bureau of Lands.
^b Census of 1903.
^c From Professor Beyer's "Population of the Philippine Islands in 1916."
^d Estimated on the basis of Prof. Beyer's estimated population in 1918. *Alcurate Note.*—The comparison of population is not reliable as there have been many territorial changes since 1903.

The population in 1903 according to the official census is classified as follow	ows:
Brown	7,539,623
Mixed	15,419
Yellow	. 42,097
White	. 14,271
Black	24,016
Total	7,635,426
The population in 1915, is classified by Professor Beyer as follows:	
Christian	8,413,347
Mohammedan	315,980
Pagan	. 618,637
Unclassified pagan	. 81,941
Foreign born	. 7 3, 366
Total	9,503,271
The population of the city of Manila is classified as follows:	
Americans (outside of the Army & Navy)	
Filipinos	
Spaniards	4,400
Other Europeans	. 1,500
Chinese	. 16,600
Japanese	. 2,340
Filipino transients	4,200
All others	920
Total	280, 460

TABLE No. 2.—Immigration and emigration of aliens.

[Source: Bureau of Customs.]

Year.	Immi- grant.	Non immi- grant.	Total admit- ted.	Emi- grant.	Non emi- grant.	Total depart- ed.	In- crease or de- crease.
1908	1, 706 2, 059 2, 308 2, 946 2, 536 4, 408 4, 032 4, 067 4, 641 6 939	6, 199 5, 411 7, 223 7, 248 6, 932 8, 238 7, 200 7, 857 6, 964 6, 226	7,905 7,470 9,531 10,194 9,468 12,646 11,232 11,924 11,605 13,165	(a) (a) 1,010 896 729 768 1,364 916 974 762	(a) (a) 8, 785 8, 696 9, 138 9, 181 9, 574 9, 097 7, 523	(a) (a) 9, 795 9, 592 9, 505 9, 906 10, 545 10, 490 10, 071 8, 285	(*) (a) (264) 602 (37) 2,740 687 1,434 1,534 4,880
1917 1918 ^ь	6, 939 4, 187	6, 226 2, 934	13, 165 7, 121	$\begin{array}{c} 762 \\ 428 \end{array}$	7, 523 4, 711	8, 285 5, 139	4,880 1,982

^a Not available. ^b From January 1 to June 30 only.

NOTE .- Figures in parentheses are decreases.

TABLE No. 3.-Values of the most important imports of the Philippine Islands from 1908 to 1918.

[Source: Bureau of Customs.]

Article.	1908	1909	1910	1161	1912	1913
Cotton. and manufactures of	b 14 443 364	914 389 360	9 90 970 109	163	# 92_23S_394	P23 688 602
Iron and steel and manufactures of	4 018 619	4 799 159	11 118 916	55	12 436 668	17, 227, 808
Rice	11, 105, 142	9, 588, 018	11. 982, 670	13. 544. 494	26, 017, 012	6, 329, 182
Silk, and manufactures of	1.023.560	1, 073, 990	1.468.780	527	1, 827, 328	1, 672, 644
Wheat flour	1.886.044	2, 564, 898	3, 108, 478	3, 013, 716	4, 266, 654	3, 797, 908
Paper, and manufactures of	951, 122	1,052,904	1, 594, 030	1, 499, 054	1, 772, 112	1, 638, 874
Leather, and manufactures of	1, 115, 838	1, 184, 850	2, 241, 840	1, ×36, 926	2, 548, 830	2, 1(6, 896
Dairy products	1, 142, 306	1, 349, 170	1, 940, 658	2, 025, 748	2,509,264	2,442,530
Automobiles, and parts of			b 633, 104	1,456,204	1, 842, 384	2, 526, 204
Coal	1, 195, 014	1, 252, 698	3, 358, 578	2, 438, 050	2, 133, 328	3, 168, 134
Fibers, vegetables and textile	861, 904	745,068	999, 830	890, 968	1, 135, 530	1,003,128
Oils (not illuminating)	457.474	490, 960	888, 656	1, 194, 524	1, 503, 772	1,689,230
Chemicals, drugs, dyes, and medicines	826, 756	1,027,352	1,256,580	1,267,896	1,668,826	1,438,160
Meat products	2, 768, 404	2, 920, 014	3, 770, 612	3, 668, 726	5, 062, 148	4, 106, 500
Illuminating oil	438,	2,006,250	1,847,512	2, 280, 974	2, 786, 646	2, 536, (88
Instruments and apparatus	195, 920	277, 962	733, 062	1, 185, 440	1, 645, 270	1, 989, 678
Fish and fish products	638, 072	907, 286	1, 346, 232	1, 196, 956	1, 344, 552	1,691,560
Vegetables	1, 079, 580	1, 237, 466	1, 377, 162	1, 473, 956	1, 605, 818	1,559,910
Tobacco, and manufactures of	81,402	161, 818	448, 518	354, 546	490, 482	617, 792
Soap	129, 380	173, 568	338, 202	427, 106	658, 780	762, 952
Wood, and manufactures of	750, 104	718, 638	2, 029, 578	1, 224, 068	1, 661, 038	1, 541, 254
Books and printed matter	342, 264	376, 618	921,418	786, 932	1, 229, 022	1,060,954
Glass and glassware	371, 748	384, 420	592, 908	608, 366	715, 958	636, 542
Cocoa or cacao	459, 294	402,356	446.118	492, 374	733, 608	504, 242
All other imports.	11, 090, 330	13, 091, 022	24, 025, 178	20, 833, 360	23, 502, 448	20, 908, 200
Total	58, 372, 240	62, 168, 838	99, 438, 722	96, 048, 814	123, 335, 802	106, 625, 57
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TABLE No. 3.-Value of the most important imports of the Philippine Islands from 1908 to 1918-Continued.

Article.	1914	1915	1916	1917	1918a	Per cent to total imports	ent to iports.
						1913	1917
Cotton, and manufactures of	P19, 912, 488	82,	P 18, 649, 772	P 37, 574, 005	P28, 083, 116	22.22	28.55
Iron and steel, and manufactures of	13, 966, 888	8, 860, 142	7, 726, 477	11, 855, 125	10, 879, 040	16.17	9.01
	6, 552, 296	8 20 20	13, 043, 642	10, 781, 463	6, 294, 162	5.93 1	27 S
Slik, and manuractures of Wheat flour	1, 030, 510 3, 222, 316	2, 892, 607	3, 002, 883	3, 831, 050	3, 364, 069	3.56	9.01 2.92
Paper, and manufactures of	1,514,380	1, 522, 421	1, 789, 886	3, 778, 373	1, 892, 013	1.53	2.88
Leather, and manufactures of	3, 115, 648	2, 549, 605	2, 119, 337	3, 247, 817	1, 771, 321	1.97	2.47
Dairy products	2, 236, 546	2, 199, 682	1, 985, 908	3, 129, 238	1, 204, 922	2.27	5.38 7.38
Automobiles, and parts of	2,026,902	1, 949, 633 9, 865, 041	2, 705, 145 9, 607, 989	3, 080, 801	2, 989, 123	20.2	2.34
Vou Fibers veoretables and textile	0, 404, 356	1, 197, 361	2, 001, 200	3, 071, 808	1, 987, 910	76.7	5 33
Oils (not illuminating)	1, 587, 668	1.801.020	2, 631, 525	2, 914, 882	1, 169, 944	1.58	2.22
Chemicals, drugs, dyes, and medicines	1, 447, 582	1, 730, 658	2, 776, 148	2, 862, 248	1, 570, 292	1.35	2.17
Meat products	3, 732, 548	3, 442, 474	2, 271, 487	2, 850, 873	1, 744, 105	3.86	2.17
Illuminating oil	2, 562, 040	2, 258, 030	2, 025, 691	2, 673, 335	895, 727	5.38 7.38	5.03 19
Instruments and apparatus	1, 657, 422	1,500,493	1, 361, 024	1, 893, 907	744,415	1.86	1.44
Fish and fish products	1, 441, 470	832, 288	1, 120, 021	1, 855, 736	1, 971, 094	1.59	1.41
degetables	1, 590, 678	1, 428, 883	1, 477, 624	1,823,970	1, 139, 462	1.40	1.38
Lobacco, and manufactures of	1 170 794	154, 053	630 310 630 310	1, 1/8, 440	326 996	89. F	8.8 8
Wood, and manufactures of	1.543.578	672. 425	616, 996	1, 098, 429	933, 103	1.44	88
Books and printed matter	939, 092	818, 892	939, 525	971, 559	520, 785	66.	. 74
Glass and glassware	586, 638	541, 555	651, 208	950, 781	721, 673	.60	. 72
Cocoa or cacao	663, 806	469, 480	811.026	905, 054	599, 855	.47	.69
All other imports	18, 399, 288	17, 507, 144	16, 388, 963	21,063,874	13, 717, 696	19.61	16.01
Total	97, 177, 306	98, 624, 367	90, 992, 675	131, 594, 061	89, 956, 940	100.00	100.00
Total	97, 177, 306	98, 624, 367	90, 992, 675	131, 594, 061	89, 956, 940		100.00

* January 1 to June 30 only.
b Not separately stated prior to July 1, 1910. Government and railway free entries excluded prior to the year 1910.

TABLE No. 4.- Monthly importation of vice from 1913 to 1918.

[Source: Bureau of Customs.]

		1913			1914			1915	Walking the second s
Month.	Quantity.	Value.	Duty.	Quantity.	Value.	Duty.	Quantity.	Value.	Duty.
January	<i>Kilos.</i> 6, 268, 815			<i>Kilos.</i> 3, 482, 416		650	Kilos. 22, 482, 889	P 1, 391, 994	
February March	13, 459, 737 5, 579, 165			3, 130, 549 8, 252, 210		616 046	13,074,748 $17,332,857$	822,748 1.032.462	
April Mav	3, 720, 347 3, 347, 710			6, 538, 679 1 499, 736		772	16, 444, 705 18, 604, 258	993, 234 1, 081, 100	
June	5, 051, 887			9, 322, 543		446	22, 906, 281	1, 276, 044	
	o, 010, 044 5, 650, 977			3, 400, 020 15, 431, 161		628	26, 691, 642	1, 557, 814	
September Octoher	18, 927, 332 9, 538, 486			10, 493, 217 12, 548, 004		862	22,002,996	1, 351, 753 1, 221, 330	
November December	6,061,251 1,305,204	442, 276 119, 600	121, 226 26, 104	5, 774, 716 11, 040, 243	433, 880 791, 782	115,492 220,804	5, 906, 658 12, 355, 743	421, 795 876, 559	118, 130 247, 114
Total	86, 989, 555	6, 329, 182	1, 739, 670	96, 921, 497	6, 552, 296	1, 937, 122	218, 411, 545	13, 448, 551	4, 362, 417
		1916			1917			1918-	
Month.	Quantity.	Value.	Duty.	Quantity.	Value.	Duty.	Quantity.	Value.	Duty.
January	Kilos. 7, 515, 484	P480, 473	P150, 307	Kilos. 7,466,108	577568		<i>Kilos.</i> 7, 749, 405	P 738, 948	
rebruary March	10, 696, 770 12, 815, 697	682, 822 835, 753 825, 753	213, 936 256, 313	10, 444, 723 9, 596, 225 7, 196, 200	715, 576		6, 301, 702 12, 755, 392	976, 179	257, 992
April. May Tuesting	14, 329, 390	693,909 693,909	230, 985 217, 882 909, 976	13,406,165	956, 018		18, 0/0, 654 14, 437, 244 10, 267 756	1, 441, 053 1, 080, 465 1, 520, 152	
July July	22, 067, 476 91, 195, 478	1, 538, 965	441, 348	22, 828, 056 14, 720, 026	1, 672, 287		26, 662, 871 0, 649, 566	2, 233, 131 2, 233, 131 2, 239, 519	
September Ootober	18, 598, 427	1,316,543 1 743 133	371, 967 458, 483	14, 039, 318	1,060,149		12, 697, 644	1, 176, 341	
November December	16, 174, 698 13, 524, 926	1, 185, 621 923, 762	323, 489 270, 499	9, 268, 817 6, 490, 737	672, 268 566, 107	187, 914			
Total	189, 835, 577	13, 043, 642	3, 796, 696	146, 985, 715	10, 781, 463	2, 976, 557	126, 645, 234	10, 586, 152	2, 563, 720

A To September 30 only.

TABLE No. 5.—Rice imports from 1899 to 1918.

[Source: Bureau of Customs.]

	Rice i	imports.		Aver- age	Aver- age
Year.	Metric tons.	Equivalent in cavans.	Value.	value per 100 kilos.	value per cavan.
1000	110 149	1 015 500	B7 047 999	P6. 40	₽3.68
1899		1,915,500	₱7,047,382	P6. 40 5. 99	3.44
1900		2,536,300	8, 730, 112	5, 99	3.44
1901		2,967,800	10, 216, 682	5.99 6.06	3.44
1902		5,044,500	17,568,776 25,104,764	7.51	5.40 4.32
1903		5,814,600		5.80	4.32
1904	265,754	4,621,800	15, 421, 508	6.15	3, 54
1905		3, 813, 500	13, 491, 950	6.13	3.61
1906		2,209,600	7, 983, 826	6.28 7.00	4.03
1907		2,070,000	8, 333, 488		4.03
1908	158,385	2,754,500	11, 105, 142	7.01	4.04
1909		2,906,500	9,588,018		
1910		3, 431, 800	11, 982, 670	6.07	3.41
1911		3, 194, 300	13, 544, 494	7.37	4.24
1912		5, 235, 800	26,017,012	8.64	4.97
1913		1,512,900	6, 329, 182	7.28	4.18
1914		1,737,800	6, 552, 296	6.76	3.77
1915		3, 799, 000	13, 448, 551	6.16	3.54
1916		3, 301, 500	13,043,642	6.87	3.95
1917		2, 556, 300	10, 781, 463	7.33	4.22
1918 a	77,642	1,350,300	6, 294, 162	8.11	4.66

^a From January 1 to June 30 only.

NOTE.—The value as shown above does not include cost of transportation to the Philippine Islands, rates of exchange, customs duties, cartage, storage, and other handling charges. 57.5 kilos is equivalent to 1 cavan.

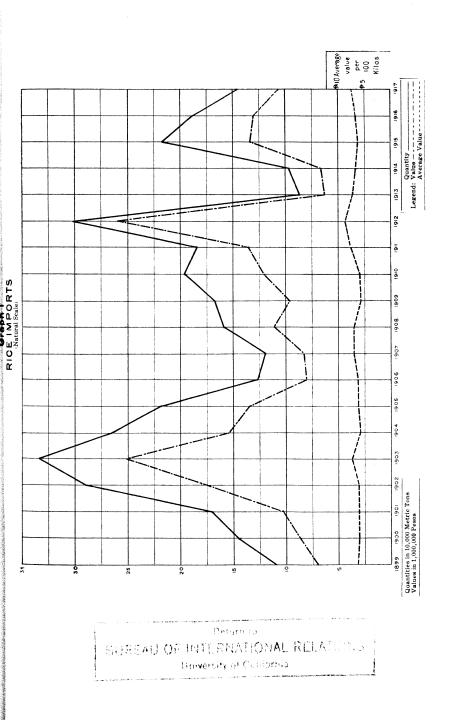


TABLE No. 6.—Thirteen greatest importing countries into the Philippines—Value of the three most important articles imported from each country in 1913 and 1917.

[Source: Bureau of Customs.]

		1913				1917		
Country.	Rank.	Articles.	Value.	Percent- age on total im- ports from each country.	Rank.	Articles.	Value.	Percent- age on total im- ports from each country.
United States United Kingdom Japan	-0.04	Cotton, iron and steel, and oils Cotton, iron and steel, and vegetables Cotton iron and steel, and vegetables Iron and steal compart and vegtables	P29, 636, 302 6, 424, 038 2, 966, 566 9 048, 484	55.55 59.75 43.71 51.04	- 10 01 <u>F</u>	Cotton, iron and steel, and oils Octon, iron and steel, and silk Cotton, oal and ocke, and breadstuff tron and steel chomicals on and	P40, 499, 904 4, 206, 606 9, 420, 878 194, 518	53.83 71.03 57.33 60.44
French East Indies	ел (Rice, chemicals, etc., and fish Meat and dairy products, vegetables,	5, 237, 414 4, 194, 432	96. 72 78. 31	ლ ლ	cotton. Rice, animals, and coal and coke Meat and dairy products, fodder, and	10, 385, 776 3, 287, 216	
China	7	and breadstuff. Vegteables, meat and dairy products,	1, 090, 734	24.96	4	breadstuff. Meat and dairy products, breadstuff,	2, 643, 988	31.08
France Spain Switzerland	8 e 01	and sulk. Diamond, papers, and perfumery Cotton, fish, and wines	$\begin{array}{c} 957,230\\ 1,228,852\\ 1,227,220\end{array}$	33.05 49.59 87.44	6011 011	and cotton. Jiamond, prapers, and perfumery Fish, books and periodicals, and wines - Cotton, meat and dairy products, and	$1, 065, 123 \\472, 091 \\688, 949$	67. 59 33. 55 91. 38
British East Indies Hawaii Hongkong	112 13	silk. Cotton, animals, and breadstuff Iron and steel, coffee, and sugar Iron and steel, cement, and sugar	$\begin{array}{c} 206, 542\\ 1, 167, 964\\ 868, 608 \end{array}$	15.52 98.17 82.03	13 14	clocks and watches. Cacao, cotton, and vegetables	849, 74 3 610, 386 312, 946	33. 50 99.21 81.17
						Iacture.		

NOTE.—The 8th and 12th places were occupied by Dutch East Indies and Siam, respectively, in 1917.

TABLE No. 7.—Hemp exports—Quantity and value exported, 1899–1918.

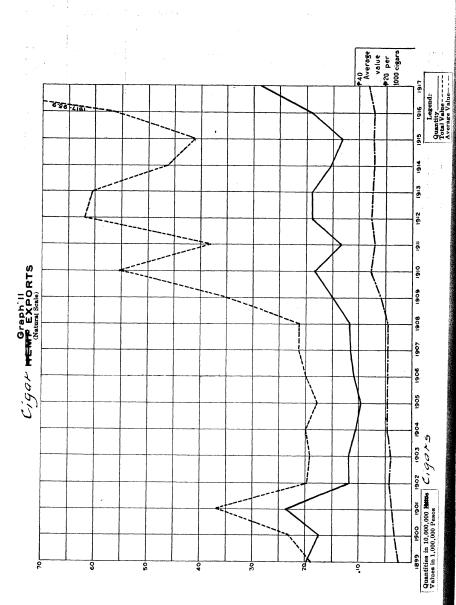
[Source:	Bureau	of	Customs.]	
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Year.	Quantity.	Value.	Average value per 100 kilos.
	Kilos.		
1899		P15, 987, 148	P22.79
1900		26, 580, 800	29.30
1901		31, 953, 280	25.31
1902		38, 581, 220	34.06
1903		44,001,176	31.44
1904		41, 888, 354	33, 90
1905		43, 514, 688	33, 36
1906		39, 225, 264	37.69
1907		39, 378, 986	33.59
1908		33,003,912	25.12
1909		33, 792, 000	20.12
1910		32, 950, 622	20.19
1911		28, 970, 254	19.55
1912		44, 151, 342	25.21
1913		42, 242, 168	35.25
1914		39, 389, 630	32.99
1915		42,678,200	30.05
1916		53, 384, 593	38.87
1917	169, 435, 204	93, 615, 559	55.25
1918 a	- 71, 333, 675	53, 018, 524	74.32

* From January 1 to June 30 only.

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14 for 16 see opp. p. 29

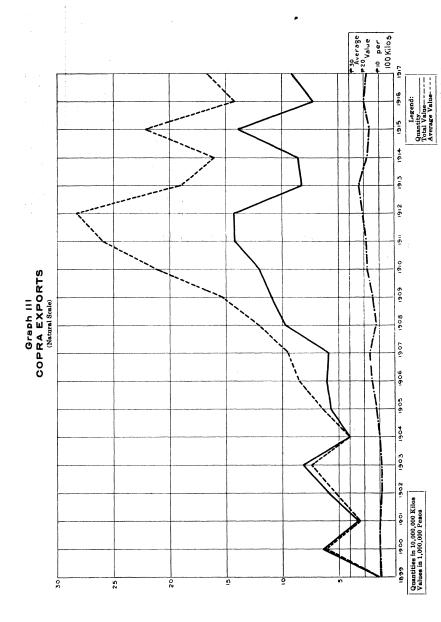


[Source:	Bureau	of	Customs.]	
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Year. `	Quantity.	Value.	Average value per 100 kilos.
	Kilos.	-1	
1899		P1, 453, 306	P9.47
1900		6, 364, 962	9.81
1901		3, 223, 676	9.91
1902		5, 403, 450	9.12
1903		7, 639, 586	9.30
1904		3,962,244	10.27
1905		6, 489, 406	11.64
1906		8, 747, 404	14.44
1907		9, 568, 302	16.32
1908		12, 117, 772	12.43
1909		15, 345, 730	
1910		21, 278, 098	
1911		26, 039, 124	18.32
1912		28, 366, 932	19.87
1913		19,091,448	23.22
1914		15, 960, 540	18.27
1915		22, 223, 109	
1916		14, 231, 941	
1917	92, 180, 326	16, 654, 301	18.07
1918a	42, 539, 577	8, 079, 246	18.09

160787-2

* From January 1 to June 30 only.



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COPRA AND COPRA PRODUCTS IN THE PHILIPPINE ISLANDS.

By H. W. FOSTER, Commercial Agent, Bureau of Commerce and Industry,

Copra is the dried meat of the coconut and is prepared for the purpose of producing coconut oil. Copra is prepared on a commercial scale in 32 provinces out of 44 in the Philippine Islands. The Bureau of Agriculture reports 205,591 short tons produced during the year ending June 30, 1917.

The following figures show the exportation of copra and coconut oil from the Philippine Islands as recorded by the Bureau of Customs:

Cor	ora.	Coconut oil.	
Kilos.	Value.	Kilos.	Value.
142, 792, 929 82, 219, 363	P28, 366, 932	5 010 499	₽80 2,292,678
87, 344, 695 139, 092, 902	15, 960, 540 22, 223, 109	11, 943, 329 13, 464, 169	5, 238, 366 5, 641, 003
72, 277, 164 92, 180, 326 52, 485, 727	14, 231, 941 16, 654, 301 9, 893, 969	16, 091, 169 45, 198, 415 79, 924, 479	7, 851, 469 22, 818, 294 43, 005, 869
	Kilos. 142, 792, 929 82, 219, 363 87, 344, 695 139, 092, 902 72, 277, 164 92, 180, 326	142, 792, 929 P 28, 366, 932 82, 219, 363 19, 091, 448 87, 344, 695 15, 960, 540 139, 092, 902 22, 223, 109 72, 277, 164 14, 231, 941 92, 180, 326 16, 654, 301	Kilos. Value. Kilos. 142, 792, 929 P 28, 366, 932

^a January to September, inclusive, only.

To prepare copra, the coconut is split, the meat partially dried while in the shell; the meat is then removed and the drying ompleted. Drying is done either by the sun or artificially. There are three classes of copra. Sundried, as its name indiates, is copra which has been thoroughly dried in the sun. Fair nerchantable Manila is copra which was partially or imperfectly ried when received in Manila and which has been redried. Low rade copra is that which is smoked and scorched and is rancid. There are the following variations in quality within the classes nentioned depending upon the perfectness of the drying:

a. Sundried:

1. Thoroughly dried in the sun	₱12.75 to •	₽13.00
2. Thoroughly dried over a drier	12.25 to	12.50
b. Fair merchantable Manila:		
3. Redried in the sun	12.00 to	12.25
4. Redried artificially	11.50 to	11.75
c. Low grades:		
5. Partially dried in the sun	11.25 to	11.50
6. Imperfectly dried over a drier	10.75 to	11.00

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SUREAU OF INTERNATIONAL RELATIONS

PRICE OF ARTIFICIALLY DRIED COPRA.

[Per picul.]

1918. [`]	Imperfectly	Redried in	Thorougly
	dried.	Manila.	dried.
January February March May June July August September (1-20)	$\begin{array}{c} 10.25 \ \text{to} \ 10.50 \\ 10.75 \ \text{to} \ 11.00 \\ 11.50 \ \text{to} \ 11.75 \\ 11.75 \ \text{to} \ 12.00 \\ 10.50 \ \text{to} \ 70.75 \\ 10.00 \ \text{to} \ 10.25 \\ 11.00 \ \text{to} \ 11.25 \\ 12.75 \ \text{to} \ 13.00 \end{array}$	P10.00 to P10.25 11.00 to 11.25 11.50 to 11.75 12.25 to 12.00 12.50 to 12.75 11.25 to 11.25 11.25 to 12.75 11.25 to 11.00 10.75 to 12.00 13.50 to 13.75 15.00 to 15.25	P10.75 to P11.00 11.75 to 12.00 12.25 to 12.50 13.00 to 13.25 13.25 to 13.25 13.25 to 13.25 13.25 to 13.25 11.50 to 11.75 12.50 to 12.75 14.25 to 14.00 15.75 to 16.00

PRICE OF SUNDRIED COPRA.

[Per picul.]

January	₽9.75 to ₽10.00	P10.50 to P10.75	P11.25 to P11.50
February		11.50 to 11.75	12.25 to 12.50
March	11.25 to 11.50	12.00 to 12.25	12.75 to 13.00
April		12.75 to 13.00	13.50 to 13.75
May		13.00 to 13.25	13.75 to 14.00
June		11.75 to 12.00	12.50 to 12.75
July		11.25 to 11.50	12.00 to 12.25
August		12.25 to 12.50	13.00 to 13.25
September		14.00 to 14.25	14.75 to 15.00
October (1-20)		15.50 to 15.75	16.25 to 16.50
		1	

Many oil men have complained regarding the high price of It has even been stated by some that with copra at copra. ₱15 their mills would operate at a loss. On the other hand, others have claimed that they could operate at a profit paying ₱16 per picul for copra. There has been a movement on the part of certain mills to combine to limit the price to be paid for copra. The claim is made that the producer is not benefiting from the high prices, but that the prices are being forced by speculators who have already purchased large stocks at low On November 5, 1918, however, there were but 87,390 prices. piculs or 5,462 short tons of copra in Manila, exclusive of that in the hands of oil mills. If one mill operates at a loss paying ₱15 per picul for copra while another realizes a reasonable profit paying P16, it would appear that there is a wide difference in degree of efficiency attained by the respective managements of the two mills.

Coconut oil is produced commercially by passing copra which has been ground to a meal through expellers or through hydraulic presses or both.

Coconut oil was first exported on a commercial scale in 1913. Prior to the opening of the war, there was but one company in the Philippine Islands producing coconut oil on a commercial scale. During the war difficulty in marketing copra was encountered, both because of lack of European demand and because of lack of space on deep sea vessels. As a result the coconut oil industry enjoyed and is enjoying a period of unwonted prosperity. There were on November 18, 1918, thirty-seven companies incorporated under the laws of the Philippine Islands or of the United States having for their purpose the manufacture of coconut oil. There are in addition five individuals or partnerships engaged in the same industry. The thirty-seven corporations were organized in the following years:

1909	1	
1911	1	
1913	1	(Reorganization of first company.)
1914	1	
1915	3	
1917	8	
1918	25	(reorganization of two old companies.)
	40	
	-3	(Deduct for reorganization.)
	37	

The individuals or partnerships began to produce oil during the following years:

	 	1
		1
		- -
•••••	 •••••••	ð
		5

Not all of these forty-two concerns are producing oil. On October 31, 1918, thirty-one of them, however, were registered with the office of the Governor-General as having produced oil or as expecting to produce in the near future. These thirty-one concerns commenced to produce oil as follows:

Year.	Numbe of com panies com- mencin to produce	- Total prod- g ucing.
1913	1	1
1916	3	4
1917	6	10
1918 prior to November 1	11	21
1918 in November 1	1	22
(Not yet producing)	9.	
-	31	

Of the twenty-one which had actually produced oil prior to October 31, 1918, three were closed for repairs on said date. There were, therefore, eighteen mills in operation on October 31, 1918.

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Date. (1918.)	Number of oper- ating mills.	Oil on hand first of month.	Pro- duction.	Total on hand dur- ing the month.	Shipped.	On hand last day of month.
January 1 to August 31 September October Total	16 17 18	12, 401 9, 599	81, 551 14, 989 15, 808 112, 348	27, 390 25, 407	17, 791 10, 446 28, 237	9, 599 14, 961

The following figures may be of interest:

Average daily production October, 1918, per operating day-523 tons. Quantity of oil is stated in short tons of 2,000 pounds each.

It is estimated that these thirty-one companies referred to are equipped to produce a maximum of 1,300 tons of 2,000 pounds each of coconut oil per day of 24 hours. The eighteen of the companies actually producing oil, are equipped to produce a maximum of 964 tons of coconut oil per 24-hour day. These mills produced 15,808 tons of oil during October, 1918. The oil was produced by mills at the rate of 523 tons per operating day of 24 hours.

To supply the thirty-one mills with enough copra to run at the estimated full capacity, 847,300 tons of copra per year are needed. To supply the eighteen now operating with enough copra to run at full capacity, 628,250 tons of copra per year are needed. To enable these mills which produced 15,808 tons of oil in October at the rate of 523 tons per operating day to continue to produce oil at that rate per day for a year, 340,880 tons of copra are needed. The calculation is based on an expected average of 56 per cent extraction—a percentage considered favorable under existing conditions.

The annual production of copra as estimated by the Bureau of Agriculture is 248,641 tons. Many oil men estimate the production for 1918 to be 300,000 tons. The following method of estimating the amount of copra available in 1918 may be followed: The total amount of oil produced by all oil mills from January, 1918 to September 30, 1918, was 96,540 tons. To produce this oil, 172,393 tons of copra was required if a 56 per cent extraction was realized. From January 1, 1918 to September 30, 1918, 52,485,727 kilos or 57,734 tons was exported. Assuming that oil can be manufactured and copra exported for the remainder of the year at the same rate that oil was manufactured and copra exported from January 1, 1918 to September 30, 1918, the total amount of copra available for export or manufacture into oil will be 306,836 tons. No one, however, estimates that the copra produced in the Philippine Islands in

1918 will reach the 340,880 tons required to maintain the rate of oil production reached in October, 1918. Steps have already been taken by certain mills to import copra from nearby countries.

The transporting of coconut oil from the Philippine Islands to the United States assumed a new phase when it was discovered that the Standard Oil Company's tankers which had been used for bringing petroleum products to the Orient could be used on the return trip for carrying coconut oil. To handle vegetable oil in bulk, coconut oil companies require loading facilities in Manila and unloading and storage facilities at destination. Due to the high price of materials but very few companies possess these facilities. Lack of these facilities places the small producers largely at the mercy of those companies which can handle the oil quickly at both ends of the voyage. There is an opportunity for business men to establish relations with the smaller producers, some of whom can produce oil at the rate of 1,000 tons a month, for furnishing storage and land transportation facilities at Pacific Coast ports of the United States.

More steamers for handling coconut oil in bulk are needed. During the war it has been impossible to secure the amount of space needed for transporting coconut oil in bulk. The total capacity for bulk oil of all ships calling in the Philippine Islands is approximately 35,500 tons. Allowing for a round trip every three months, these ships will move not more than 12,000 tons per month. Fifteen thousand eight hundred and eight tons of oil were produced in October, 1918. If this rate is maintained, there will be 3,808 tons of oil per month which must either be shipped in barrels or which will accumulate. The capacity of the barrel factory in Manila is 500 barrels per day which is 4,000 barrels per month less than that needed to move the 3,808 tons of oil which cannot be shipped in bulk. The capacity of the barrel factory is to be increased, and it will be able to handle more than 3,808 tons of oil per month, but shipping in barrels has not been as satisfactory from the standpoint of the oil producer as is shipping the oil in bulk.

At the present time the Governor-General as representative of the United States Shipping Board, allots space on all vessels carrying coconut oil from the Philippine Islands. Because of this procedure the small producer is assured of a market for his oil provided he can make arrangements for loading and unloading his oil. However, the alloting of space may be suspended when the war is over and when the return to normal conditions is under way. The two large tankers with a capacity of 24,000 out of the 35,500 tons of bulk oil are chartered by one company. What effect the removal of Government control over the space on tankers might have upon small producers is problematical.

The development of the commercial use of the by-products incident to the manufacture of coconut oil is not as far advanced in the Philippine Islands as is the manufacture of the coconut oil itself. Still it is under way. One company at least is directing its attention largely to the manufacture of potash from copra cake. Plans are under way to develop this phase of the industry so as to compete with European oil producers.

> g(a**yya)** (in 1966) (in 1966) an tha saidhe Samar a taotai

TABLE No. 9.—Sugar exports—Quantity and value exported, 1899–1918.

[Source: Bureau of Customs.]

Year.	Quantity.	Value.	Average value per 100 kilos.
1839 1900 1901 1902 1903 1904 1905 1906 1907 1908 1909 1909 1910 1911 1912 1913 1914 1915 1916 1917 1918	85, 307, 972 87, 053, 054 108, 498, 717 129, 453, 709 127, 917, 216 144, 735, 001 129, 327, 480 121, 471, 544 209, 044, 397 197, 075, 995 157, 333, 707 236, 498, 001	P6, 919, 420 4, 794, 288 5, 112, 626 6, 692, 300 6, 650, 468 6, 185, 504 10, 146, 466 9, 108, 184 8, 391, 342 11, 216, 574 14, 448, 770 22, 151, 346 19, 600, 680 14, 066, 778 22, 119, 186 22, 620, 430 77, 165, 185 24, 555, 357 14, 351, 240	P8.06 7.35 8.99 6.76 7.80 7.711 9.35 7.04 6.56 7.89 10.60 9.95 8.94 9.31 10.72 11.93 11.64

^a From January 1 to June 30 only. Quantity and value includes centrifugal sugar amounting to 25,407,580 kilos valued at **P5**,236,547.

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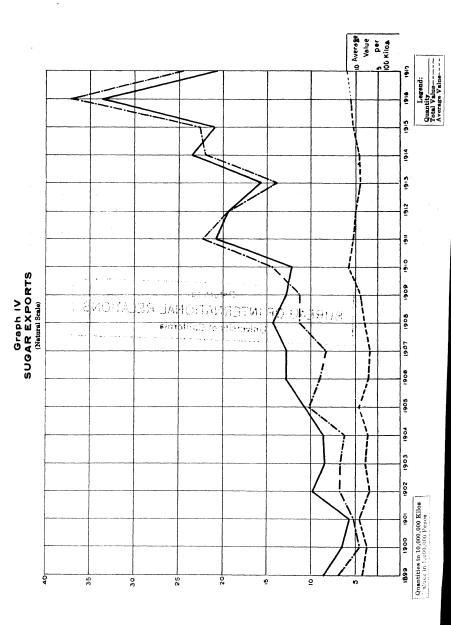
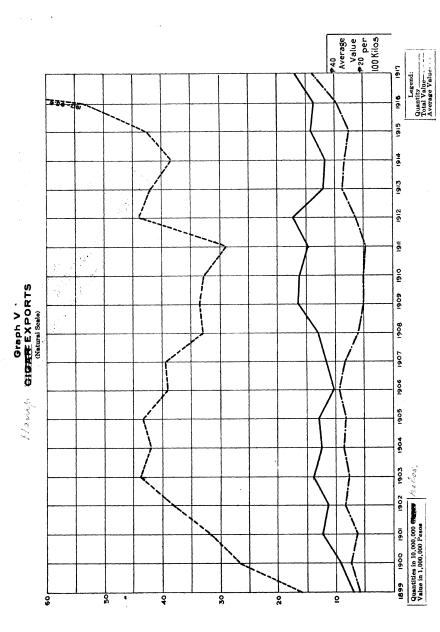


TABLE No. 10.—Cigar exports—Quantity and value exported, 1899–1918. [Source: Bureau of Customs.]

Year.	Quantity.	Value.	Average value per 1,000.
1899 1900 1901 1902 1903 1904 1905 1906 1907 1908 1909 1909 1910 1911 1912 1913 1914 1915 1916	Thousands. 196,090 172,659 238,475 117,852 118,947 104,753 95,739 108,635 114,665 115,881 151,457 134,407 134,830 190,842 191,762 164,753 134,648 133,026 284,525	P1, 181, 398 2, 316, 834 3, 664, 898 1, 977, 036 1, 922, 710 2, 011, 790 1, 785, 122 2, 008, 014 2, 118, 764 2, 118, 764 2, 118, 656 3, 509, 055 4, 118, 656 3, 803, 726 6, 184, 128 6, 024, 468 4, 630, 318 4, 114, 605 5, 688, 751 5, 616, 409	P9. 65 13. 42 15. 37 16. 37 16. 16 19. 21 18. 65 18. 48 18. 55 18. 28 23. 17 29. 93 28. 21 32. 42 29. 92 30. 56 29. 47 38. 67
1917 1918 •	147, 897	5,615,409	37.56

* From January 1 to June 30 only.

BUREAU OF INTERNATIONAL RELATIONS University of California



28 See opp. p. 17 for p 28

TARK NO. IL -- Thirteen countries receiving the greatest Philippine exports.-- Value of the three most important articles exported to each country in 1913 and 1917.

[Source: Bureau of Customs.]

	Percent- age on total ex- ports to each country.	65, 11 94, 48 89, 73 89, 73 88, 23 88, 26 88, 74 88, 74 88, 74 99, 09 99, 09
	Value.	P82 , 333, 515 19, 473, 378 19, 473, 378 13, 884, 523 13, 884, 523 3, 406, 675 3, 406, 675 1, 707, 990 1, 708, 708 1, 708, 708, 708, 708 1, 708, 708, 708, 708, 708, 708, 708, 708
161	Articles.	Hemp, copra and augar Hemp, sugar and tobacco Copra, knotted hemp and tobacco Hemp, sugar and copra Hemp, sugar and tobacco Copra, hemp and tobacco Sugar, tobacco and fibers Hemp, tobacco and sugar Hemp and tobacco.
	Rank.	-101-8460F98040
	Percent- age on total ex- ports to each country.	58888888888888888888888888888888888888
	Value.	P 26, 023, 916 116, 986, 006 116, 580, 278 7, 656, 142 8, 445, 582 8, 143, 939 1, 219, 323 154, 808 1, 219, 323 838, 930 938, 930 938, 930 938, 930 938, 930 938, 930
1918	Articles.	Hemp, tobacco, and sugar Hemp, copra and tobacco. Hemp, copra and tobacco. Bugar, hemp and copra. Sugar, hemp and copra. Tobacco copra and hemp. Copra, coconut cake and hemp. Copra, coconut cake and hemp. Hemp, tobacco and fibers. Hemp, tobacco and fibers. Hemp, tobacco and fibers.
	Rank.	-00.470,0000 10101
	Country.	United States United Kingdom Japan Hongkong Spanin German Australiasia Leigtum Reity Netherlands

Norg-The tenth, eleventh, twelfth and thirteenth places were occupied by Canada, Switzerland, Hawaii and Dutch East Indies, respectively, in 1917

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SURFAL OF INTERCOMPTONIC STRATEGY IN THE RELATIONS

TABLE No. 12.---Value of most important exports of the Philippine Islands from 1908 to 1918. [Source: Bureau of Customs.]

 Page
 Sale
 <th 95, 545, 912 1913 P44, 151, 342 19, 600, 650 28, 366, 982 10, 726, 764 1, 098, 564 1, 722, 870 925, 114 925, 114 526, 172 536, 172 109, 846, 600 1, 760, 086 1912 P28, 970, 254 22, 151, 346 26, 039, 124 7, 636, 162 587, 112 499, 672 843, 976 880, 492 59, 724 53, 446 1, 472, 946 89, 674, 254 1911
 732
 950, 622

 14, 448, 770
 32

 21, 278, 098
 32

 8, 817, 962
 831, 962

 8, 817, 962
 331, 714

 705, 414
 361, 186

 391, 714
 826

 357, 350
 3257, 350

 357, 704
 428, 704
 1, 235, 248 81, 256, 926 P32, 950, 6 14, 448, 7 1910 P33, 792, 000 11, 216, 574 15, 345, 730 6, 649, 068 576, 994 268, 808 478, 180 276.418 1, 244, 902 69, 848, 674 1909 F33, 003, 912 11, 407, 282 11, 407, 282 684, 560 12, 117, 772 5, 652, 084 326, 546 306, 442 239, 656 1, 172, 902 290.988 65, 202, 144 1908 umber Article. notted hemp Shells xports of foreign merchandise All other domestic merchandise ----earl buttons Joconut cake emp. opra Pili nuts obacco..... Total aguey oconut oil ugar

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1918
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Value of
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No.
TABLE NO.

Article.	7161	1916	1916	1917	1918 -	Per cent to total exports	cent to exports.
						1913	1917
Hemp	7 38, 339, 630 5, 22, 119, 186 5, 23, 119, 186 15, 940, 540 11, 107, 540 1, 107, 544 1, 107, 544 1, 107, 544 1, 107, 544 1, 107, 544 1, 107, 544 1, 107, 528 650, 652 533, 524 1, 904, 720 97, 379, 268	P42 , 678, 200 222, 620, 430 5, 641, 003 7, 403, 886 7, 403, 886 1, 104, 252 611, 188 611, 188 611, 481 161, 481 161, 481 161, 481 161, 481 161, 481 161, 684, 008	PES, 384, 569 SY, 176, 185 SY, 176, 185 14, 281, 469 14, 281, 469 3, 208, 678 3, 208, 678 3, 208, 678 1, 1652, 349 3, 208, 678 1, 1652, 349 1, 652, 349 1, 652, 349 1, 652, 349 1, 652, 349 1, 454 4, 722, 653 1, 454 4, 722, 653 1, 454 1, 455 1, 456 1, 456	P 38, 616, 559 24, 565, 357 24, 565, 357 24, 565, 357 16, 654, 301 14, 301, 031 14, 304, 433 14, 696, 433 15, 304, 433 1, 1, 038 1, 1, 038 6, 600, 375 11, 208, 613 191, 208, 613	F53, 018, 524 14, 351, 240 22, 312, 205 28, 312, 205 28, 312, 205 88, 917, 914 13, 357, 914 14, 357 639, 969 639, 969 644, 253 77, 214 71, 257 832, 184 202, 184 203, 184 203, 184 203, 184 204, 128 611, 1380 161, 644 116, 324, 989	144.21 15.45 15.45 15.83 15.83 15.83 1.85 1.85 1.85 1.85 1.85 1.85 1.85 1.85	88 112,88 112,88 112,88 12,88 12,88 12,88 12,88 12,88 13,88 13,88 13,88 13,88 14 14 14 14 14 14 14 14 14 14 14 14 14
		-	-			-	

^a January 1 to June 30 only.

TABLE No. 12.---Value of most important exports of the Philippine Islands from 1908 to 1918.

[Source: Bureau of Customs.]

Article.	1908	1909	1910	1161	1912	1913
Hemp	P33, 003, 912 11, 407, 282 684, 560	P 33, 792, 000 11, 216, 574	P 32, 950, 622 14, 448, 770	P28, 970, 254 22, 151, 346	P44, 151, 342 19, 600, 680	P42, 242, 168 14, 065, 778 2 202 678
Coontu oli Tobacco Taguev Francie na foncion merchandise	12, 117, 772 5, 652, 084 326, 546 306, 442	15, 345, 730 6, 649, 068 576, 994 268, 808	21, 278, 098 8, 817, 962 405, 186 391, 714	26, 039, 124 7, 636, 162 587, 112 499, 672	28, 366, 932 10, 726, 764 1, 098, 584 608, 608	19,091,448 9,983,936 1,181,902 784,468
Knotted hemp	290, 988	478, 180	705, 404 557, 826 337, 360	843, 976 880, 492 59, 724	1, 722, 370 925, 114 235, 868	1, 131, 402 817, 878 623, 314
Sumer Shells Pearl buttons Croomit rake	239, 656	276.418	428, 704	533, 446	650, 172	751, 582 77, 346 219, 150
Pili nuts All other domestic merchandise	1, 172, 902		1, 235, 248	1, 472, 946	1, 760, 086	188, 270 2, 144, 592
Total	65, 202, 144	69, 848, 674	81, 256, 926	89, 674, 254	109, 846, 600	95, 545, 912

Article.	1914	1915	1916	1917	1918.	Per cent to total exports.	unt to tports.
						1913	1917
Hemp.	P 38, 389, 630	378.	P 53. 384. 593	315	●53 018 524	16 17	80
Sugar	22, 119, 186	22, 620, 430	37, 175, 185	24, 555, 357	14, 351, 240	13.72	12.84
Cocontr oil	5, 238, 366	Ę,	7, 851, 469	318,	22, 312, 205	2.39	11.93
	15, 960, 540	ន្ល័	14, 231, 941	354,	8, 079, 246	18.98	8.71
1 UNDER CONTRACTOR OF	8, 355, 064	66	11, 652, 349	Ĕ	13, 237, 918	12.45	7. 53
Renoved framework and the second	834, 114	1, 0/0, 40/	3, 479, 978	38	1, 567, 864	1.23	2.45
	1, 107, 640	1, 104, 252	3, 208, 678	324,	1, 844, 253	83.	1. 73
	1, 141, 574	611,493	1, 065, 317	ŝ	689, 969	1.18	86.
Itaus	627, 762	514, 138	1, 313, 226	ŝ	470, 271	- 85	22.
Shells	619, 528	470, 551	981, 288	823, 496	329, 184	39.	.43
Pearl buttons	080, 002	110, 200	503, 151	284, 627	201,360	e.	14
Coconut cake	233, 624	104 101	45, 921	36 000	007 '70	ŝŝ	18
Pili nuts	44, 624		14.434	1,038	128	12	30.
All other domestic merchandise	1, 904, 720	2, 494, 989	4, 722, 553	6, 600, 875	161, 644	2.24	3.45
Total	97, 379, 268	107, 626, 008	139, 874, 365	191, 208, 613	116, 324, 989	100.00	100.00

^a January 1 to June 30 only.

 TABLE No. 13—Foreign trade of the Philippine Islands from 1899 to June 30, 1918.

		Aggregate.		P	er capit	а.
Year.	Imports.	Exports.	Total trade.	lm- ports.	Ex- ports.	Total.
1899 1900 1901 1902 1903 1904 1905 1906 1907 1908 1909 1909 1910 1911 1912 1914 1905	60, 324, 942 66, 684, 332 67, 622, 768 59, 155, 462 60, 101, 100 52, 807, 538 60, 907, 620 62, 168, 838 99, 438, 722 96, 048, 814 123, 335, 802 106, 625, 572 97, 177, 306	P29, 693, 164 45, 980, 746 57, 343, 808 64, 793, 492 58, 299, 000 66, 909, 548 65, 285, 742 66, 195, 934 65, 202, 144 65, 202, 144 65, 202, 144 65, 848, 674 81, 256, 926 89, 674, 254 100, 846, 600 95, 545, 912 97, 379, 288	P68, 079, 136 95, 708, 304 109, 331, 648 124, 028, 140 132, 416, 260 117, 454, 462 127, 010, 648 118, 093, 320 127, 103, 354 123, 574, 384 132, 017, 512 180, 695, 648 185, 723, 068 233, 182, 402 202, 171, 484 194, 556, 574	P5.027 6.512 7.901 8.733 8.856 7.608 7.589 6.548 7.416 6.979 7.298 11.464 10.872 13.709 11.637 10.414 10.378	P3. 889 6. 022 6. 418 7. 510 8. 486 7. 498 8. 049 8. 045 8. 040 9. 368 10. 150 9. 368 10. 150 9. 368 10. 426 10. 426 10. 426 11. 325	P8. 916 12. 534 14. 319 16. 243 17. 342 15. 106 16. 038 14. 643 15. 498 20. 832 21. 022 25. 912 22. 045 20. 856 20. 856 21. 708
1915	90, 992, 675 131, 594, 061 89, 956, 940	139, 874, 365 191, 208, 613 119, 510, 245	230, 867, 040 322, 802, 674 209, 467, 185	9.410 13.375 8.985	14. 466 19. 434 11. 938	23.876 32.809 20.923

[Source: Bureau of Customs.]

2Total foreign trade and trade balance for each year from 1899 to 1918. TABLE No. 14.-

[Source: Bureau of Customs.]

	1	Foreign trade	•	Increase o crease.		Trade
Year.	Imports.	Exports.	Total.	Amount.	Per cent.	balance.*
1899	49, 727, 558 60, 324, 942 65, 684, 332 67, 622, 768 59, 155, 462 60, 101, 100 52, 807, 536 60, 907, 520 60, 907, 520 60, 907, 520 62, 168, 833 99, 438, 722 96, 048, 814 123, 335, 802 96, 048, 814 123, 335, 802 97, 177, 306 98, 624, 367 90, 992, 675	P29, 693, 164 45, 980, 746 49, 006, 706 57, 343, 808 64, 799, 492 58, 299, 000 66, 909, 548 65, 202, 144 65, 202, 144 65, 202, 144 65, 202, 144 69, 848, 674 109, 846, 600 95, 545, 912 97, 379, 268 191, 208, 613 119, 510, 245	P68, 079, 136 95, 708, 304 109, 331, 648 124, 028, 140 132, 416, 260 117, 454, 462 127, 010, 648 118, 093, 320 127, 103, 354 123, 574, 384 139, 017, 512 30, 645, 648 135, 723, 068 233, 182, 402 202, 171, 484 194, 556, 574 230, 867, 040 322, 802, 674	P27 , 629, 168 13, 623, 344 14, 696, 492 8, 388, 120 (14, 961, 798) 9, 556, 186 (8, 917, 328) 9, 010, 034 (3, 528, 970) 8, 443, 128 48, 678, 136 5, 027, 420 (31, 010, 918) (7, 614, 910) 11, 693, 801 24, 616, 665 91, 935, 634 (77, 953, 126	40.58 14.23 13.44 6.76 (11.30) 8.14 (7.02) 7.63 (2.78) 25.56 (13.30) (3.77) 6.01 11.93 39.82 59.27	$(\mathbf{P}8, 692, 808) \\ (3, 746, 812) \\ (11, 318, 236) \\ (9, 340, 524) \\ (2, 829, 276) \\ (856, 462) \\ (856, 462) \\ (856, 462) \\ (8, 808, 448) \\ 12, 478, 248 \\ 5, 288, 114 \\ 6, 829, 904 \\ 7, 679, 836 \\ (18, 181, 796) \\ (6, 374, 560) \\ (13, 489, 202) \\ (11, 079, 660) \\ 201, 962 \\ 9, 001, 641 \\ 48, 881, 690 \\ 59, 614, 552 \\ 29, 553, 305 \\ \end{cases}$

a Figures in parentheses are decreases; in trade balance, they mean against Islands.
b From January 1 to June 30 only.
c Compared with same period for 1917.

The balance of trade for the first three quarters of 1918 amounted to P61,154,703. This is 52.5 per cent greater than the trade balance for the same period of 1917 and 37.4 per cent more than that of 1916.

TABLE No. 15.—Comparison of monthly foreign trade of the Philippine Islands during the last three years.

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		Imports.		Increase of 1917 over 1916.	of 1916.	Increase of 1918 over 1917.	of 1917.	Increase of 1918 over 1916.	of 916.
WOULD.	1916	1917	1918	Amount.	Per cent.	Amount.	Per cent.	Amount.	Per cent.
January Rebruary March April April May June June September October November	7 , 926, 391 4 , 894, 897 4 , 894, 897 7 , 767, 855 7 , 767, 855 7 , 126, 766 9 , 460, 822 9 , 460, 822 1 , 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,	P9, 239, 263 7, 443, 553 9, 962, 141 6, 081, 274 10, 604, 512 110, 604, 512 13, 999, 803 13, 277, 138 13, 277, 138 14, 075, 786 14, 075, 786 13, 277, 138 12, 499, 386	P16, 484, 943 11, 546, 512 14, 887, 742 10, 288, 605 15, 799, 660 15, 799, 660 15, 799, 660 18, 763, 947 117, 347, 893 17, 347, 893	P1, 312, 872 2, 745, 631 6675, 631 (675, 631) 8, 476, 746 5, 4289, 637 5, 963, 027 6, 963, 027 5, 476, 234 1, 776, 234	655,00 55,000 55,0000 55,000 55,000 55,0000 55,0000 55,0000 55,0000 55,0000 55,0000 55,00000 55,00000000	P7, 245, 680 4, 905, 671 4, 905, 601 4, 186, 311 5, 102, 411 10, 395, 516 2, 753, 104 3, 272, 107 3, 272, 107	84.54 84.54 84.56 84.58 84.56 85 85 85 85 85 85 85 85 85 85 85 85 85	P.7, 245, 680 T8, 42 P8, 558, 552 4, 096, 501 54, 393 5, 741, 515 4, 136, 510 54, 393 5, 741, 515 4, 136, 510 583 3, 510, 569 5, 132, 411 65, 741, 615 3, 510, 569 6, 132, 411 68, 823 3, 510, 669 6, 133, 514 88, 603 8, 572, 003 4, 136, 514 83, 60 8, 583, 338 4, 136, 514 83, 60 8, 583, 338 2, 730, 066 20, 81 8, 853, 338 2, 773, 066 23, 231 10, 235, 134 3, 272, 107 23, 235 10, 235, 134	107. 98 140. 31 166. 17 106. 17 113. 60 194. 62 91. 17 6. 63 6. 63 6. 63 91. 17 143. 90
Total	90, 992, 675	131, 594, 061	141, 654, 184	40, 601, 386	44.62	46, 498, 834	48.87	76, 152, 413	116.27



TABLE No. 15.—Comparison of monthly foreign trade of the Philippine Islands during the last three years—Continued.

		Exports.		Increase of 1917 over 1916.	of 1916.	Increase of 1918 over 1917.	of 1917.	Increase of 1918 over 1916	e of 1916.
Month.	1916	1917	1918	Amount.	Per cent.	Amount.	Per cent-	Amount.	Per cent.
January	P11, 902, 944	954,	648,	(P948, 824)	(1.98)	P12, 694, 182	115.89	P11, 745, 358	98.68
February March	9, 029, 570 12, 393, 236	906, 455,	245,	1,877,040	20.78 32.78	339.	122.31 26.59	15, 216, 055 8, 438, 431	168.51 68.09
April Mey	9, 096, 170	288	831,	492, 045	5.41 (29 12)	433,	46.24 86.18	4, 925, 774	54.15 31.97
June	16, 636, 339	042,	005	2, 405, 912	14.47	040,	(10.71)	365, 819	2.20
august Soutombor	9, 759, 580 9, 759, 580	621'.	22, 219, 554	ġœġ	142.09	(1, 408, 096) (1, 949, 096)	(5.96) 49.70	12, 459, 974	127.68
ospeteillost October November December	10, 300, 382 9, 985, 677 10, 300, 382 9, 575, 609	25, 069, 483 16, 272, 361 14, 695, 559		5, 971, 979 5, 971, 979 5, 039, 950	151.05 57.98 32.63	Î	2		
Total	139, 874, 365	191, 208, 613	202, 808, 887	51, 334, 248	36.70	74, 454, 045	55.05	92, 496, 180	84.08

Norg.-Figures in parentheses are decreases.

The value of imports as shown in this bulletin is the foreign value of the merchandise in the country whence imported plus the cost of packing and all other expenses incident to placing the goods in condition for shipment to the Islands. If the total value of exports up to September 30, 1918, is 55.05 per cent greater than the total value of exports for the same period of 1917 and 84.08 per cent over that of the same period of 1916. The principal exports are hemp, cocount oil, sugar, tobacco and its manufactures, copra, maguey, knotted hemp, has, embroderies, lumber, shells and pearl buttons. Coconut oil is rapidly developing into one of the leading exports of the Islands. At the end of September, 1918, there were seventeen mills in operation which produced 14,989 tons of oil during the same month. From January 1 to September 30, 1918, 96,860 tons of oil were produced.

"The value of exports as shown in this bulletin is the price of the goods as sold by the exporter to the foreign consignee; however, in those cases that exported merchandise are sold abroad to the account of the exporter, the export values include all expenses incident to placing the goods in condition for shipment from the Islands. TABLE No. 16.-Foreign trade of the Philippine Islands showing per cent of United States trade to total trade.

[Source: Bureau of Customs.]

	Iml	Imports from—		E	Exports to		Tota	Total trade with—	
Year.	United States.	All countries.	Per cent.	United States.	All countries.	Per cent.	United States.	All countries.	Per cent.
1966	955.	807.	17.0	738.	285.	36.4	694.	093.	27.7
1907	10, 135, 076	60, 907, 620	16.6	20.658.774	66, 195, 734	31.2	30, 793, 850	127, 103, 354	24.2
1908	203.	372.	17.5	901.	202.	32.1	105,	574,	25.2
1909	890.	168.	20.7	453.	848.	42.2	343,	017,	32.1
1910	137.	438.	40.4	483.	256.	42.4	620,	695,	41.3
1911	313.	048.	39.9	845.	674.	44.4	159.	723,	42.1
1912	618.	335,	39.4	764,	846,	41.7	382,	182,	40.5
1913	352.	625.	50.0	868,	545,	34.4	220,	171,	42.6
1914	022.	177.	49.4	855.	379.	50.2	878,	556,	49.8
1916	762.	624.	53.5	306,	6%6,	44.0	068,	250,	48.5
1916	725.	992.	50.3	296,	874,	51.0	021,	867,	50.7
1917	241,	594,	57.2	468,	208,	66.1	710,	802,	62.5
1918 -	750,	956,	59.8	452,	510,	64.0	203,	467,	62.1

^a From January 1 to June 30 only.

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TABLE No. 17.-Total and per capita foreign trade of important countries.

[Source: Statistical Abstract of the United States, 1916.]

Conntew	Voor	Domination		Foreign trade.			Per capita.	
		- india -	Imports.	Exports.	Total.	Imports.	Exports.	Total.
	1915	3, 886, 000	084	304	ŝ	P161.88	P165.29	P327, 17
2	1915	2, 517, 000	770,	926,	726,	111.95	187.11	299.06
	1914	2, 890, 000	274,	202	476,	147.50	144.71	292.21
4. United Kingdom	1915	46, 407, 000	306.	926	322,	157.89	80.72	238.61
5. Norway	1914	2.487.000	090	394.	454	122.26	85.00	207.26
	1915	7.885.000	902	482.	384.	55.54	136.65	192.19
7. Porto Rico	1916	1,216,000	902.	463.	366	64.06	109.76	173.82
	1915	316.	552.	594.	146.	65.13	115.19	170.32
S	1914	680	622	82	604	68.60	72.88	141.48
	1916	559.	768.	796	564.	43.09	84.96	128.05
11. France	1915	39, 700, 000	754	608.	362.	78. 51	29.39	107.90
	1915	420,	948.	944.	902.	21.33	47.49	68.82
13. Italy	1915	36, 120, 000	1, 285, 944, 000	855, 534, 000	2, 141, 478, 000	35.60	23.69	59.29
14. Spain	1914	20, 356, 000	960,	710,	670,	19.21	16.10	35.31
16. Brazil	1915	24,600,000	850,	560,	410,	11.90	20.96	32.86
16. Honduras	1915	562, 000	748,	284,	032,	20.90	11.18	32.08
I7. Bolivia	1915	2, 890, 000	578,	134,	712,	6.08	25.65	31.73
18. Venezuela	1915	2, 816, 000	940,	308,	748.	9.57	16.62	26.19
19. PHILIPPINES	1915	a 9, 503, 000	624,	326,	250,	10.38	11.33	21.71
PHILIPPINES	1916	a 9, 670, 000	993 .	874,	867,	9.41	14.47	23.88
PHILIPPINES	1917	a 9, 839, 000	594,	600	803,	13.38	19.43	32.81
20. Japan	1915	55, 084, 000	320,	174,	794,	9.63	12.81	22.44
21. Nicaragua	1915	704,000	318,	34,	452,	8.97	12.97	21.94
22. Columbia	1915	5, 072, 000	728,	58,	486,	6.85	10.99	17.84

^a Figures are from Prof. Beyer's "Population of the Philippine Islands in 1916."

TABLE No. 18.—Commercial relation of important countries with the Philippines.	Source: Reports of the Bureau of Customs and 1916 Statistical Abstract of the United States.]
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		Population.	cion.			Foreign commerce.	umerce.		Per cent of trade-	of trade-
Country.	Area.	Latest available data since 1915.	Per square mile.	Year.	Total imports.	Imports from Philip- pines in 1917.	Total exports.	Exports to Philippines in 1917.	With P.I. to its total trade.	With P. I. to total P. I. trade.
	Sq. miles.	The			Thousand.		Thousand.			
1. United States	3.627.557		28.55	1916	P5. 395. 768	P126.468.	P8 , 544, 796	P75.241.	1.45	62.49
2. Japan	147, 698		372.95	1915	530, 320	14, 655,	705,474	16, 432,	2.51	9.63
3. United Kingdom	121.438	46,407	382.15	1915	7, 327, 306	20, 610, 169	3, 745, 926		.24	8.22
Canada	3, 729, 665		2.17	1916	1,015,634	1,050,	1, 483, 222	28.	.05	.35
Australasia	3, 078, 162		1.96	1915	827, 638	2, 380,	827, 626	3, 597.	.37	1.85
4. China	4, 278, 352		78.54	1915	583, 926	4, 324,	512, 686	8, 514,	1.17	3,95
5. Spain	195,057		104.36	1914	390, 960	3, 474,	327, 710	1,406,	.68	1.51
6. Netherlands	13, 199		480.34	1914	2, 272, 498		2,004,966	176.	.004	.05
Dutch East Indies	739, 545		51.38	1914	308, 888	490,	515, 106	2,000,	.40	.77
7. Switzerland	15,945		243.71	1915	629, 084	366, 153	642, 304	753,	60.	.35
8. Siam	195,000		41.79	1916	55, 834	44,	78, 422	708,	. 56	ສຸ
9. Italy	110,660		326.45	1915	1, 285, 944	234,	855, 534	192,	.02	. 13
10. Denmark	15,047		192.06	1914	426, 274		418,202	87,	-10	8. 8
11. Belgium	11, 373		673.35	1913	1, 949, 246		1, 434, 304	43,	.001	.01
12. Norway	124, 675		19.95	1914	304,060		211, 394	29.	.006	600.
13. Austria-Hungary	261,241		200.46	1913	1, 383, 076		1, 124, 494	°.		
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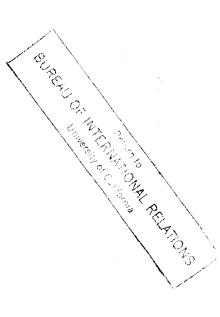


TABLE No. 19.-Total oriental trade of the Philippine Islands.

[Source: Bureau of Customs.]

country.	1908	1909	1910	11911	1912	1913	1914	1915	9116	1917	1918a
Australasia British East Indies China Duch East Indies French East Indies Hongkong Japan (including Japan-China and Korea)	P 5, 531, 430 3, 211, 760 7, 215, 478 648, 906 11, 098, 900 6, 021, 840 8, 461, 402 3, 461, 402 5, 760, 950	P 5, 924, 092 3, 421, 736 8, 234, 286 9, 441, 428 5, 208, 570 3, 788, 570 3, 788, 576	P 5, 998, 134 4, 502, 700 6, 634, 614 6, 634, 178 634, 178 3, 445, 468 3, 445, 468 5, 822, 764	P6, 052, 626 4, 323, 710 5, 083, 316 8, 503, 316 8, 503 3, 668, 672 6, 489, 508 6, 489, 508	P7, 916, 924 7, 370, 270 6, 027, 866 1, 176, 300 22, 802, 178 4, 876, 192 11, 257, 114	P6, 590, 002 3, 984, 732 3, 661, 436 974, 488 5, 439, 842 7, 416, 752 14, 892, 304	P 6, 055, 802 3, 802, 882 7, 211, 756 6, 279, 490 4, 646, 130 13, 578, 848	P 3, 937, 567 3, 665, 228 7, 905, 665 7, 905, 665 13, 832, 463 7, 347, 405 15, 131, 335	P3, 115, 795 4, 772, 756 9, 772, 756 2, 429, 913 13, 019, 776 8, 426, 851 19, 460, 128	P5 , 977, 807 12 , 839, 107 12 , 839, 167 12 , 839, 167 12 , 839, 167 13 , 949, 819 11 , 309, 048 11 , 154, 093 31 , 428, 350	P 4, 747, 614 2, 928, 236 2, 928, 236 3, 974, 878 1, 154, 086 6, 518, 678 5, 440, 496 18, 759, 922 18, 769, 922
Total				41, 114, 848	62, 159, 332		43, 485,				49, 232, 855
Per cent of total Philippine Islands trade	30.56	28.27	22.34	22.14	26.66	23.70	22.35	26.07	26.68	24.87	23. 50

^a From January 1 to June 30 only.

TABLE No. 20-Internal revenue licenses issued from 1909 to 1917, inclusive.

[Source: Bureau of Internal Revenue.]

				Number	Number of licenses issued-	issued-			
Nature of business.	1909 a	1910	1161	1912	1913	1914	1915	1916	1917
	1	н	1	201	9	15	15 75	15	, 93
Curruptoustes, maintouristes, tattoers, euc Common carriers, etc	415	201	102	1, 472	2,028	3, 163	18, 095	9,954 8,954	9, 594 7, 620
outstat out an environment, europeaner, europeaner, europeaner, europeaner, europeaner, Distitutes Distitutes	37 78	24 69	31 62	23	20 62	328		30	588 588
Lawyers, medical practitioners, etc Manufacturare of and wholesela darlase in motors crimits minared vile ato	1, 975	1, 944	2,097	1, 558	1, 717	1,430	1, 308	1, 338	1, 521
igarettes	263 60, 815	124 64, 945	105 74, 037	106 89, 147	81 95, 567	80, 911	72, 525	77.	173 79, 691
Midwives, cirujanos ministrantes, etc. Money lenders						184	269	208	423 163
Pawnbrokers Paarl fishing	64	99	20	65	8	81	85	173	66 195
Peddlers of merchandise						19,498	34, 528	37, 506	41, 904
Pharmacists, farriers and opticians	189	183	253	283	324	422 203	40 9	979	1, 118 488
Printers and publishers						066	155	147	135
Frocuratores judiciales, agentes de negocios, etc	174	179	179	184	358	000	088	412	352
Rectifiers	49	40	32	26	24	29	8	38	28
Registered dealers in prohibited drugs							1,445	1, 032	1, 170
Retail dealers in fermented liquors	1,262	1, 315	1, 375	1,261	1, 236	1, 242	1, 576	1, 776	2, 362
retain tradition in turkor basis, and tapuy							7, 174	889	11,055
Retail liquor dealers	1.270	1, 370	1,272	006	921	198	828	873	916
Retail peddlers of alcoholic and tobacco products	1,055	774	782	662	1, 338	1,959	150		1, 332
Retail "vino" dealers Signs, signboards, and billboards	21, 094	21, 728	23, 585	25, 091	26, 717	22, 862 430	19, 917 915	20, 993	30, 966
Sponge fishing								- 12	43
Stockbrokers	97 215	145 92 076	218	201 201	220	32 462	30 061	31 466	87 083
Tobacco ucatels Tobacco manufacturers	155	80		43	68	58	67		81
Veterinarians	408	440	472	523	599	355	249	19	×
Wholesale dealers in fermented liquors	169	134	143	596 70F	337	309	302	298	342
Wholessle liquor deglers	(P)	(P) 030	(P)	en, (4)	(q)	(9)	14	105	145
	4, 527	4, 104	4,468	4,970	4, 936	6, 043	6, 910	6, 478	7, 364
Total	122, 397	127, 379	140, 224	169, 722	189, 116	200, 500	234, 461	238, 444	276, 008
						-		-	

* No data available prior to 1909.

^b See "Retail peddlers of alcoholic and tobacco products."

TABLE No. 21.-Foreign and domestic shipping.

[Source: Bureau of Customs.]

Tear.Entered.Cleared.Total.Entered.Cleared.Total.Year.Year.Num-Register-Num-Register-Num-Register-Num-ber.Num-ed ton-ber.nage.Num-Register-Num-Register-Num-ber.nage.nage.ber.nage.ber.nage.ber.nage.Num-ber.nage.nage.nage.ber.nage.ber.hage.ber.hage.1, 0831, 511, 9021, 0101, 464, 4482, 0432, 973, 3418, 5639, 2181, 045, 07518, 225, 5609101, 6011, 6011, 6011, 6011, 6011, 6011, 6011, 6021, 6052, 12569111, 9122, 9033831, 5132, 903, 3839, 2281, 0041, 982, 4902, 12562, 12569131, 9121, 9121, 9223831, 1512, 734, 4482, 0432, 6642, 12562, 12569131, 9121, 9121, 9131, 922931, 9326662, 12562, 12565062, 12569141, 9131, 9131, 9131, 9131, 9131, 9131, 9131, 9131, 9131, 9139131, 9141, 9131, 9131, 9131, 9131, 9131, 9131, 9131, 9131, 9131, 9131, 9139141, 9141, 9131, 9131,					Fol	Foreign.					Don	Domestic.		
Mum. Regrister- ber. Num. Regrister- laction- ber. Num. 10.033 1.410 1.301 1	A	1	Ent	ered.	Cĩ	ared.	Ĥ	otal.	En	tered.	อี	eared.	L	otal.
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	T G S	1 2-		Register- ed ton- nage.	Num- ber.	Register- ed ton- nage.	Num- ber.	Register- ed ton- nage.	ł .	Register- ed ton- nage.		Register- ed ton- nage.		Reg
862 1703 (683) 877 1715 (38) 3418 (362) 9,263 1707 (34) 3,306 1,063 (256) 18,569 948 1,366,196 384 1,366,303 18,82 5,775 11,471 1,301,714 10,799 1,366,503 25,156 948 1,366,5196 384 1,366,303 1,882 5,775 11,471 1,301,714 10,799 1,366,503 25,156 794 1,381,767 1,461 1,361,877 11,461 1,361,877 1,362,503 2,915 774 1,831,776 771 1,931,766 774 1,381,877 1,460 2,138,665 2,393 1,773 714 1,663,716 4,364,506 1,364,507 1,460 2,138,665 2,393 1,775 714 1,663,846 718 1,428 2,1407 2,407 2,407 2,407 2,407 2,476 2,476 2,476 2,476 2,476 2,476 2,476 2,476 2,476 2,476 2,407 2,477	1908 1910		1, 033	1, 511, 902 1 410 560	1, 010 749	1, 464, 448 1, 392, 333	2,043 1,513	2, 976, 350 2, 802, 893	8, 572 9, 209	973, 941 1. 039, 338	8, 568 9, 218	978, 968 1. 045, 075	17, 140 18, 427	
949 1 946 1 1 946 1 1 947 1 1 947 1 946 1 946 1 946 1 946 1 946 1 946 1 946 1 946 1 947 1 771 1 926 1 326 936 917 <th< td=""><td>1910</td><td></td><td>862</td><td>1, 703, 684</td><td>872</td><td>1, 715, 268</td><td>1, 734</td><td>3, 418, 952</td><td>9, 263</td><td>1,075,124</td><td>9,306 10,799</td><td>1, 053, 426</td><td>18, 569 21, 550</td><td></td></th<>	1910		862	1, 703, 684	872	1, 715, 268	1, 734	3, 418, 952	9, 263	1,075,124	9,306 10,799	1, 053, 426	18, 569 21, 550	
772 1; 912, 756 747 1; 931, 249 1; 519 8; 844, 005 11, 460 2; 189, 387 11, 489 2; 139, 696 22, 349 714 1, 718, 118 1, 428 3; 384, 005 11, 460 2; 189, 387 12, 407 2, 139, 696 22, 349 714 1, 718, 118 1, 428 3; 584, 400 11, 460 2, 189, 387 12, 407 2, 039 407 26, 886 706 1, 680, 687 718 1, 428 3; 584, 400 17, 80, 457 26, 347 26, 347 26, 347 26, 347 26, 347 26, 347 26, 347 26, 347 26, 347 26, 347 367 26, 347 367 26, 347 367 310, 304 310, 304 310, 304 310, 304 310, 304 310, 304 310, 304 310, 304 36, 368 310, 304 310, 304 310, 304 310, 304 304 32, 334 310, 304 310, 304 316, 304 312, 304 316, 304 316, 304 316, 304 316, 304 316, 304 316, 304 304 316, 304 <td>1912 1912</td> <td></td> <td>949</td> <td>1, 965, 693</td> <td>908</td> <td>1, 939, 079</td> <td>1,852</td> <td>100</td> <td>11,464</td> <td>1, 361, 872</td> <td>11,461 9,920</td> <td>1, 362, 620</td> <td>22, 915</td> <td></td>	1912 1912		949	1, 965, 693	908	1, 939, 079	1,852	100	11,464	1, 361, 872	11,461 9,920	1, 362, 620	22, 915	
705 1.553,345 718 1.564,124 1.428 3.153,470 12,866 1,3016 1,894,520 25,885 652 1.466,1232 1,466,1232 1,466,1232 1,481,460 17,54 29,402 730, 710 1.594,529 1,300 2,920,682 14,564 1,661,232 14,818 1,689,115 29,402 730, 701 708,358 302 730,120 599 1,438,478 8,603 830,512 8,651 844,460 17,554	1914 1914		772	1, 912, 756	747	1, 931, 249	1,519	844 398	11,460	2, 189, 938	11,489	2, 139, 696 2, 029, 407	22, 949 24, 756	
297 708, 358 302 730, 120 559 1, 438, 478 8, 603 830, 512 8, 651 844, 460 17, 254	1916 1917		705	1, 559, 346	718	1, 594, 124	1,423	3, 153, 470 2, 920, 692	12, 869 14, 584	1, 904, 071	13, 016 14, 818	1, 894, 520	25, 885 29, 402	
	1918 a		297	708, 358	302	730, 120	599	1, 438, 478	8, 603	830, 512	8, 651	844, 460	17, 254	

SUREAU OF

TABLE No. 22.—Freight rates of chief commodities from Manila to insular ports, showing difference in 1918 and 1918 on vessels more than 225 tons net register, per ton or cubic meter.

s amended.]
8
Commissioners,
Utility
Public
f
Board
16,
No.
Order
[Source:

ac.	1918	14.85 14.85 21.60 32.50 10.80 15.95		$\begin{smallmatrix} 9.20\\116.95\\116.95\\114.85\\116.95\\110.80\\250.40\\250.40\\$	ots and cooking e fruits, poultry.
Balabac.	1913	7 .15.66 1 .15.66 1 .12.86 1 .10 1 .10 		4.10 7.10 13.20 6.60 7.10 7.10 13.20 11.30	table salt, boots , Chinaware, coo n, fresh native fr nenware and pou
	1918	715.55 15.55 22.70 34.10 11.35 16.65 16.65		9.70 116.65 111.35 331.05 115.55 116.65 111.35 31.05 25.65 25.65	able salt, bo Chinaware, fresh nativ inware and
Jolo.	1913	40.110.000 40.110.000 4001.000	3 86	4. 30 13.80 6.90 13.80 11.40 11.40	ons, table s a mals, Chinav • corn, fresh • earthenware
nga.	1918	14.65 14.65 32.180 10.95 10.95 10.95		9.95 29.70 29.70 29.70 29.70 25.00 25.00	d onions, [†] , animals, native corn ative earth
Zamboanga	1918	74.850 60 110.700 1285 10.7000 10.70000 10.70000 10.70000000000	2 28 2	6.60 11.60 11.60	pickle retables onuts, 1 ats, ni
	1918	26.35 112.40 12.55 26.35 26.35 26.35 26.35	22 22	22.95 22.95 22.95	or cases, pickled onions, fresh vegetables, animals loose coconuts, native cort atches, mats, native eart
Tacloban.	1913	11.7.80 	8 88	101.20.50.808 20.80.808.808 20.808.808.808 20.808.808.808.808 20.808.808.808 20.808.808.808 20.808.808.808.808 20.808.808	bales or soap, fre ment, loc
	1918	12.15 12.15 17.80 8.85 13.30	8 188	22.30 22.30 22.30 22.30 22.30 22.30 22.30 22.30	os. s in ba rted so os, cem
Cebu.	1913	5.40 7 5.40 7 1.7.90 1 5.90 2 5.90 2	88 8	988999988 988999988 988999988	equal to 2,205 pounds or 1,000 kilos. 1, meat, condensed milk, dry goods in ids. imported oranges, potatoes, imported fresh cabbage, sugar cane, asbestos, ce tive soap, agricultural implements, br'
	1918	111.05 111.05 112.05 12.15 12.15	0 0 0	22.10 22.10 22.10 22.10 22.10 22.10 21.15 21.15	s or 1, iilk, dr otatoes al imp
Iloilo.	1913	5.55 40 5.55 5.55 5.55 5.55 5.55 5.55 5.	40 10	9.9855 40 9.8855 40 9.8855 40 80 80 80 80 80 80 80 80 80 80 80 80 80	pound ensed n nges, p , sugal
pi.	1918	P11.90 11.90 26.00 13.15 13.15	0 10 10 10 10	22.66 22.66 22.68 23.68 25.685	e ton is equal to 2,205 pour line, lard, meat, condensed and liquids. onions, imported oranges, onions, fresh cabbage, sug alay, native soap, agricult
Legaspi	1913	5.30 5.30 5.85 5.85 5.85 5.85 5.85 5.85 5.85 5.8	22 23	0.06088830 0.060888355 0.060888355	equal t equal t ds. importe fresh e
.ur	1918	P9. 60 9.60 14.20 21.30 7.10		6.05 11.10 18.90 9.60 11.10 11.10 21.15 21.15	• One ton is gasoline, lard ors, and liqui resh onions, treen beans, ic, palay, na
Pandan.	1913	4 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	30	24.5 24.5 24.5 24.5 24.5 24.5 25.5	^a One gasolin gasin ors, ar resh or resh or resh or resh or resh or
	18	27.45 27.45 3.9.10 3.9.10	18.35 9.10		es: coffee, es, liqu r oil, f 3. ceans, ze, gar
Aparri.	1918	12.20 15.20 15.20 15.20 15.00 10 10 10 10 10 10 10 10 10 10 10 10 1	19 19 2		nmoditi conut, groceri casto: trunk dried h se main
	Classifi- cation.	 		С-15% СС В В В В В СС В В С С В В В В В С В	• One ton is equal to 2,205 pounds or 1,000 kilos. • One ton is equal to 2,205 pounds or 1,000 kilos. • Important commodities: • and mathematication of the set of
	Commodity.	Hemp: Cable rope	Copra, sacked or loose Sugar: Poensacked	Tobacco: Leaf. Leaf. Rice in bass. Flour: Wheat, rice, rye, etc. Iron and retei. Bar, rod, etc. Iron and retei. Bar, rod, etc. Logs: squared or hewn.	 One ton is equ Norg.—Classification of important commodities: Class A. Boks, acaso, groud cocount, coffee, gasoline, lard, n shoes, tea, drugs, dry goods, groceries, liquors, and liquids. Class B. Automobiles, coconut oil, castor oil, fresh onions, imi utensils, stove, furtiture and trunks. Class C. Bannas, castor beans, dried beans, green beans, fre maguey leaves, sacked or loose maize, garlic, palay, nativ
ı		EUREA		Return to	NAL RELATIONS

University of California

TABLE No. 23.—Passenger rates from Manila to Insular ports, showing difference in 1913 and 1918.

[Source: Order No. 16, Board of Public Utility Commissioners, as amended.]

_	First	Class.	Second	l Class.	Third	Class.
Port.	1913	1918	1913	1918	1913	1918
Aparri. Pandan Legaspi Iloilo Cebu Tacloban Zamboanga Jolo Balabac	P 30. 65 22. 40 28. 60 27. 20 31. 35 29. 85 41. 55 43. 20 38. 20	₱45.95 33.60 42.85 40.80 47.00 44.75 62.30 64.80 57.25	P 21. 50 15. 70 20. 00 19. 10 21. 95 20. 90 29. 10 30. 30 26. 75	P 32. 20 23. 55 30. 00 28. 60 32. 90 31. 35 43. 60 45. 40 40. 10	P12. 30 8. 40 11. 45 10. 90 12. 55 11. 15 16. 65 17. 30 15. 30	P18. 40 12. 55 17. 15 16. 85 18. 80 16. 70 24. 95 25. 95 22. 90

NOTE.--Children 3 years of age and over, or exceeding 1 meter in height, but under 12 years of age, shall be carried at one-half of the adult rate, according to class.

TABLE No. 24.-Land transportation (Manila Railroad Company.)

SOUTHERN LINE.

			Cars.		Pas	senger.	Fı	eight.
Year.	Total kilome- terage operated	Pas- senger.	Freig	ght.				
	(all tracks.)		Number.	Capa- city (tons.)	Number.	Revenue.	Tons.	Revenue.
1910	110.891	38	190	a 4, 872	1,073,014	₽150, 625.07	49,085	P 40, 790.07
1911	142.013	59	241	3,423	1,809,810	542,907.58	169,231	176, 634. 78
1912		61	447	5,586	2,366,836	1,003,594.67	261, 269	340, 157. 31
1913	332.861	79	554	8,582	2,635,343	1,209,987.82	308, 175	448, 432. 15
1914	442.516	84	554	7,707	2, 145, 648	1, 150, 075. 36	258,832	538, 996. 72
1915	512.061	85	667	10,871	2,031,651	1, 102, 308.34		604, 218. 94
1916	573.180	87	663	(b)	2,064,691	1, 158, 610.34	349, 330	800, 593. 71
1917	579.235	97	663	(b)	2,881,393	1, 642, 878, 55	494, 239	1, 271, 076. 69
×			NOR	THERN	LINE.			
1910	(b)	145	694	(b)	(b)	(b)	(b)	(b)
1911		156	765	()	3, 137, 233	1, 663, 091, 03	462,744	965, 010. 40
1912		167	889	(6)	3, 344, 689	1, 819, 145, 18	558, 208	918, 389, 33
1913	550.742	154	864	c7, 667	3, 748, 194	1, 947, 891. 94	792,858	1, 272, 544. 92
1914	(b)	164	898	(b)	(b)	1, 785, 346.06	(b)	1, 153, 361. 16
1915	585.814	161	901	9,012	2, 357, 311	1, 501, 955.09	391,401	930, 646. 26
1916	601.013	161	897	9,096	2, 183, 620	1, 510, 757. 29	469, 190	1, 147, 220. 17
1917	607.649	145	946	9,422	2,836,111	1, 962, 270, 21	565, 591	1, 554, 520. 29

^a Capacity for 174 freight cars.

^b Data not available.

^c Capacity for 861 cars.

TABLE No. 25.—Automobiles registered, 1912-1918.

	191	2-1915	1	916	1	917	1	918 a
Provinces and cities.	Num- ber.	Capacity (pas- senger.)	Num- ber.	Capacity (pas- senger.)	Num- ber.	Capacity (pas- senger.)	Num- ber.	Capacity (pas- senger.)
Albay	65		80	995	59	285	94	443
Ambos Camarines	24		34	257	16	71	40	212
Antique					8	15	5	24
Bataan	2		1	5	5	25	2	9
Batanes								
Batangas	27		42	269	31	153	70	891
Bohol	7		22	122	8	36	66	424
Bulacan	76		86	580	66	425		
Cagayan	2		5	73	2	10	17	117
Capiz	15		27	168	16	80	59	373
Cavite	17		14	68	18	95	48	256
Cebu	81		121	796	101	469	173	943
Ilocos Norte	11		27	174	10	47	31	181
Ilocos Sur	42		62	503	36	191	85	460
Iloilo	142		155	803	164	744	235	1,247
Isabela							1	10
Laguna	43		43	299	37	178	75	392
La Union	18		18	119	1	5	19	105
Levte	18		36	640	8	39	64	359
Masbate	2						1	
Mindanao and Sulu	55		1	1				
Agusan								
Bukidnon								
Cotabato			1					
Davao			5	22	8	37	38	195
Lanao			5	25			4	20
Sulu			11	59	3	17	17	86
Zamboanga			43	284	12	57	41	205
Mindoro								
Misamis	4		9	48	21	105	55	414
Mountain	4		1	5	15	73	6	30
Nueva Ecija	18		24	130	21	106	46	260
Nueva Vizcaya								
Occidental Negros	176		244	1,367	121	608	265	1,440
Oriental Negros	10		17	119	14	74	26	169
Palawan	1							
Pampanga	45		73	399	68	348	97	504
Pangasinan	40		36	198	51	253	72	366
Rizal	140		148	795	100	518	137	747
Samar	11		10	70	4	22	14	92
Sorsogon	14		27	240	3	19	43	270
Surigao							. 1	2
Tarlac			7	37	6	30	19	111
Tayabas	82		. 57	387	38	208	58	365
Zambales			1	6			4	20
Manila	1,701	6, 560	1,692	9, 185	2,312	11,400	2,353	11,241
Baguio	21		. 38	249	249		- 35	239
Total	2, 921	6, 560	3, 221	19, 496	3, 328	16,743	4, 415	22, 722

[Source: Bureau of Public Works.]

^a From January 1 to June 30 only.

TABLE No. 26.—Trucks registered, 1912_1918.

	191	2-1915		1916		1917			1918	
Provinces and cities.	ber.	Capacity	ber.	Capacity	ber.	Capa	city.	ber.	Capa	city.
CILIEB.	Number.	(ton- nage.)	Number.	(ton- nage.)	Number.	Tonnage.	Pas- senger.	Number.	Tonnage.	Pas- senger.
Albay Ambos Camarines Antique			10 14	10 43	13 22	29 9	150 670	24 27 1	6 8	74 82 1
BataanBatanes										
Batangas Bohol					1 1	3	20	2 2		3 4
Bulacan Cagayan	2 2		1	5	1 2 5	5 8		3 2	5	3
Capiz Cavite						8	110	5 11	10 10	10 16
Cebu Ilocos Norte Ilocos Sur	9 4 12		5 4	13 7	7 4 1	16 6 3	86 86	26 5 6		44 7 9
Iloilo Isabela	4		6	8	4 1	3 14 2	50	6	5	11
Laguna	21		20	104	26	115		16 3	53 8	10 3
Leyte Masbate	28 2		35	118	34	146	170	40	58	93
Mindanao and Sulu	18									
Agusan Bukidnon										
Cotabato Davao					4	10		7	11	7
Lanao Sulu			93	139	54	19	130	10 4	3	19
Zamboanga Mindoro			1	6	3	11	20	15 1 14	8 4 24	37 16
Misamis Mountain Nueva Ecija			2 1	5	4 2	8	32 	$ 14 \\ 1 \\ 3 $		
Nueva Vizcaya Occidental Negros			3	13	6	24			23	21
Oriental Negros Palawan	2		3	15	6	19	30	7	20	16
Pampanga Pangasinan			1	2	17	2 9	120	5 18	4	4
Rizal Romblon	8		4	14	6	10	48	8	23	ī
Samar			5	3	15	62		1 8		1
Surigao Tarlac			3.00					1		
TayabasZambales				9				2	758	
Manila	278	1	196	b 458	164	595	112	209	1 758	

[Source: Bureau of Public Works.]

320

6, 340

70

b 458 55

1,020

196 16

341

278 5

456

_ _ _ _ _ _

Manila Baguio

Total

^a From January 1 to June 30 only. ^b The capacity of 62 trucks is unknown.

164 3

352

595 4

1, 137

112 70 209 4

1,236

512

758 4

1,052

TABLE	No.	27	-Rice	mills.
-------	-----	----	-------	--------

[Source:	Bureau	of	Agriculture.]
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			1	Num	ber o	of ric	e m	ills.			E.
Province.	Steam.	Petroleum.	Hand power.	Water.	Hydraulic.	Gasolene.	Oil.	Animal power.	Unclassified.	Total.	Total maximum daily capacity.
Albay Antique		1 20 3 1 2 5 1 8 3 	1 23 22 6 2 2	14 12 2 12 	 11 	4 5 2	2	 2	5 2 2 1	$\begin{array}{c} 22\\ 1\\ 5\\ 51\\ 1\\ 40\\ 27\\ 16\\ 1\\ 1\\ 25\\ 72\\ 3\\ 6\\ 2\\ 9\\ 9\\ 5\\ 4\\ 4\\ 7\\ 32\\ 4\end{array}$	$\begin{array}{c} Ca-\\ vans.\\ y47\\ 2\\ 820\\ 5,531\\ 16\\ 9,906\\ 990\\ 3,059\\ 150\\ 120\\ 1,794\\ 5,330\\ 160\\ 3,880\\ 450\\ 1,525\\ 56\\ 6\\ 1,090\\ 796\\ 244\\ \end{array}$
Total	137	70	55	4 0	14	12	3	2	10	343	36, 189

Note.—The total daily capacity shown above does not represent the actual output of the mills but their potential maximum capacity.

> Return to BUREAU OF INTERNATIONAL RELATIONS University of California

TABLE No. 28.—Cigar production and tax collected.

[Source: Bureau of Internal Revenue.]

	Num- ber of	An	nual product	ion.	Increase or d	ecrease.	
Year ending-	manu- factur- ers.	Local con- sumption.	Exported.	Total.	Quantity.	Per cent.	Tax.
June 30-							
1906		74, 184, 537	94, 341, 542	168, 526, 079			P1, 458, 64
1907		79, 476, 459	117, 766, 660	197, 243, 119	28, 717, 040	17,04	18,985.0
1908		82, 986, 278	115, 768, 509	198, 754, 787	1, 511, 668	0.77	19, 639, 44
			117, 849, 381	204, 649, 901	5, 895, 114	2.97	20 494 70
	909 263 86,800,520 117,8 910 124 89,272,890 196,2		196, 288, 438	285, 561, 328	80, 911, 427	39.54	21, 354,66
1911	105	96, 115, 525	132, 135, 766	228, 251, 291	(57, 310, 037)	(20.07)	22/663.04
1912	106	109, 924, 014	174, 994, 831	284, 918, 845	56, 667, 554	24.83	25, 568, 7
1913	81	96, 193, 811	209, 457, 618	305, 651, 429	20, 732, 584	7.28	22, 829, 15
December 31-							
1913 a	81	94,048,488	188, 048, 508	282,096,996			22, 294, 61
1914	83	90, 624, 757	152, 509, 443	243, 134, 200	(38, 962, 296)	(13.81)	
1915	77	46, 384, 157	137, 924, 235	184, 308, 392	(58, 825, 808)	(24.19)	28, 174, 65
1916	77	80, 518, 378	191, 349, 900	271, 868, 278	87, 559, 886	47.51	19,096,78
1917	173	104, 460, 749	307, 677, 458	412, 138, 207	140, 269, 929	51.59	126, 262, 95
1918 ^b		62, 468, 500	147, 896, 766	210, 365, 266			

^a From January to December 31.

^b From January 1 to June 30 only

NOTE.-Figures in parentheses indicate decreases.

TABLE No. 29.—Cigarette production and tax collected.

[Source: Bureau of Internal Revenue.]

	No. of man-	An	nual product	ion.	Increase or d	ecrease.	
Year ending-	ufac- tur- ers.	Local consumption.	Exported.	Total.	Quantity.	Per cent.	Тах.
June 30-							
1906		3, 509, 038, 750	21,062,844	3, 530, 101, 594			1
1907		3, 509, 999, 575	158, 349, 804	3, 668, 349, 379	138, 247, 785	3, 92	P236, 045, 549
1908		3, 774, 303, 310	72, 387, 396	3, 846, 690, 706	178, 341, 327	4.86	253, 465, 738
1909		4, 122, 385, 209	53, 250, 328	4, 175, 635, 537	328, 944, 831	8,55	276, 698, 259
1910	124	4, 138, 647, 668	34, 859, 581	4, 173, 507, 249	(2, 128, 288)	(0, 05)	330, 880, 407
1911	105	4,058,603,123	35, 425, 865	4,094,028,988	(79, 478, 261)	(1.90)	406, 792, 046
1912	106	4, 369, 153, 048	35, 776, 760	4,404,929,808	310, 900, 820	7.59	437, 671, 195
1913	81	4, 449, 340, 088	51, 431, 838	4, 500, 771, 926	95, 842, 118	2.18	445, 989, 111
December 31—							
1913 *	81	4, 338, 233, 154	46, 574, 093	4, 434, 807, 247			441, 304, 034
1914	83	4, 366, 293, 508	45, 628, 804	4, 411, 922, 312	(22, 884, 935)	(0. 52)	
1915		3, 814, 861, 007	44, 746, 258	3, 859, 607, 265	(552, 315, 047)	(12, 52)	
1916	77	4, 135, 448, 970	45, 224, 542	4, 180, 673, 512	321,066,247	8.32	498, 361, 137
1917 1918 b	173	4, 540, 519, 812	57, 834, 687	4, 598, 354, 499	417, 680, 987	9.99	538, 522, 382
1910 0		2, 335, 993, 375	32, 489, 985	2, 368, 483, 360			

* From January to December 31.

^b From January 1 to June 30 only

NOTE .- Figures in parentheses indicate decreases.

(To correct last columns of corresponding tables,)

Table No. 28 - Correct tax collected on eights. Year ending--; T R X June 30â 1906 1 P181,998,61 ĩ 1907 ; 189,850,57 1 l 1908 195, 394, 44 ž 1 1 1909 204, 847, 07 i i i 21 3, 546, 69 1910 ì i 1 1911 î 226, 630, 44 ł. i 255, 687, 58 1912 i 1 i 228, 291, 52 2913 ì 1 i December 31 i 1 i 222, 946, 70 1913 (A) 1 i ł 1914 210, 763, 61 i i ł 1915 281,146,55 1 1 11 1916 190,967,27 i 1 ł 262, 629, 54 1917 i 1 I 1918 314,110,01 i able No. 29 - Correct Lan collected on cigarottes. Wear ending- ; 1 /une 30-1 1 P2, 357, 683,14 1906 i 1 2, 360, 485, 49 1907 ŧ 1 2, 534, 657, 38 1908 中華 1 11 2, 766, 982, 39 1909 i 1 1 3, 308, 804, 07 1910 i t ł 1911 4, 067, 920, 46 1 i 1 1912 4,376,711,95 -I 1 1913 4,459,891,11 ł I 1 eember 31 i 1 1 ' 1913 (a) 4, 413, 040, 34 i 1 1 1914 4, 380, 770, 95 i 1 1 4, 569, 439, 50 1915 i 1 4,983,611,37 **191**6 i i L 5, 385, 223, 82 1 1917 1 1918 5, 536, 566, 72 1 1 1 grom Jan. 1, 1913 to Dec. (a) 31, 1913.

(Te correct last columns of corresponding tables.)

Table Ne. 28 - Correct tax collected on clarce. x a T i--gulbus rasi; lijk nam ener mer kan men men men van van mer anna mer lijke fan den men men de 🛔 den der van men der en de konstru -1111@ 30**-** 1----t 1906 181,996,61 2 189,850,57 1907 1 195, 394, 44 1908 i. 1 204,849,07 1909 1 ; 21.3, 546, 69 1910 1 1 286, 630, 44 1911 i 1 1 191.2 255,687,58 1 i 238, 291, 52 1913 1 1 December 31 i 1913 (a) 1 222,946,70 1 1924 1 210, 763, 61 1 1915 281,146,55 î 11 190,967,27 1916 Ā 1 1917 262,629,54 1 i 31 4, 110, OL 1 1918 able No. 29 - Verrect Lax collected on digmrothes. and and one and when it see and which which which the state which we call the one and the same bill see which w XAT ; -gnibne TaeX; -08 eaus ŧ : P2,357,663,14 : 2,360,485,49 1906 ĩ 1 1907 1 2, 534, 657, 38 11 1908 1 ĩ 1909 2,766,982,39 1 ł 3, 308, 804, 07 1910 1 1 6, 067, 926446 161 1 1 i 4, 376, 711, 95 1913 . 1 1913 4,459,891,11 1 1 1 00 em or 31 1 i 4. 413.040.34 1913 (a) ; ţ ì 1914 1 4, 386, 770, 95 i â 4, 569, 439, 50 1915 1 1 5 4,983,611,39 1916 i 1 1917 5, 385, 223, 82 1 1 1918 | 5,536,566,72 1 1 (a) From Jan. 1, 1913 to Dec. 31, 1913.

TABLE No. 30.—Output of domestic distilled spirits. [Source: Bureau of Internal Revenue.]

	Num-		Increase or d	ecrease.	Internal
Year ending-	ber of distil- leries.	Total Output.	Amount.	Per cent.	Revenue Tax.
June 30—		Proof liters.	Proof liters.		
1905 a	b 450	3, 757, 191			P855, 706. 22
1906		6, 461, 949	2,704,758	71.99	1,303,573.04
1907		8, 295, 884	1,833,935	28, 38	1,681,414.00
1908		8,657,925	362,041	4.36	1,729,757.16
1909		9, 532, 537	874,612	10.10	1,899,043.35
1910		10, 584, 124	1,051,587	11.03	2,269,160.70
1911		10, 471, 299	(112, 825)	(1.07)	2,551,501.04
1912	70	11, 426, 728	955, 429	9.12	2,713,061.06
1913	75	11, 276, 298	(150, 430)	(1.32)	2,658,066.02
December 31-	1				
1913	75	10, 813, 114			2, 542, 355.05
1914	1 79	11,847,354	1,034,240	9.56	2, 729, 705. 07
1915		7, 164, 723	(4, 682, 631)		
1916		10, 350, 363	3, 15, 640	44.46	2, 747, 396. (5
1917	80	15,073,758	4, 723, 395	45.64	4, 189, 753. 74
1918 c	76	8,054,172			2, 346, 686. 04

⁸ Act No. 1189 did not become operative on distilled spirits until January 1, 1905.
^b "Cauas," or small primitive stills.
^c From January 1 to June 80 only.

¢.

TABLE No. 31.—Factories and industrial establishments in the city of Manila in 1915.*

[Source: Bureau of Labor.]

				Num	ber of la	oorers er	ngaged.	Aver-
Rank.	Factories and establishments.	Num- ber.	Value of output in 1915.	Male.	Fe- male.	Chil- dren under 16 years.	Total.	Aver- age daily hours of labor.
23	Aërated water	9	₽248, 460	136	16	3	155	9
44	Bacon	1 1	12,000	5	10	Ŭ	100	10
32	Bed	î	112,288	25		3	28	9
4	Bread, biscuit and sweetmeat	46	1,603,079	615			615	8.1
3	Breweries	2	1,745,000	196	36		232	9
	Button	1	(c)	180	20		200	9
11	Candle	9	759,821	46			46	9
19	Candy	11	366, 513	131			131	9
12	Caramel	14	756,646	89			89	10
2 5	Carpentry shops	54	224,011	147			147	9
81	Carriage and iron works	41	153, 123	268		1	269	9
20	Chocolate	29	318, 305	99	3		102	8
1	Cigar and cigarette	32	11, 777, 591	4,961	3,465	448	8,874	9
41	Coffee grinding mills	2	15,400	4			4	9
42	Comb	3	13, 131	7	<u>-</u> -		7	9
14	Dried and smoked fish	27	689,614	120 11	73	1	128	9
40	Drug Dyeing establishments	1	(c) 15 754	11	3		14	97
40	Electric power plants	4	15,754	214				
47	Fertilizer	1	1, 536, 457 4, 061	8			214	(b) 9.1
46	Fish traps	17	4,955	52			52	(b)
16	Foundries, iron works and ma-	11	4, 500	02			52	(0)
10	chine shops	52	549,734	425			425	9
13	Furniture	23	744, 518	304		3	307	9
24	Gas plants	1	243, 998	89		Ŭ	89	8
7	Hat and umbrella	15	1, 429, 671	316	149	31	496	8.0
26	Ice plants	3	221,684	84			84	13
48	1nk	1	692	1			1	(b)
43	Line	2	12,979	4			4	9
17	Machinery, foundry and ship-				i			1
	yard establishments	1	512,866	325		3	328	9.6
18	Match	1	374,000	123	100	30	253	9
39	Musical instruments	12	16,795	24			24	8
29 38	Oil	1	189,208	21			21	8 9
38 15	Preserved foodstuff Printing and book binding	6 43	20,000	15 617	55 41	19	70 677	9
10	Rice mills	40	633,171 1,141,608	59	41	19	66	8 13
33	Rope	2	106.000	78	30	27	135	13
36	Sails constructing shops	4	27,578	13	00	1	13	9
5	Saw mills	21	d 1, 584, 937	636		1	637	9
34	Sculpture and marble cutting	~	_,,,			-		
	shops	18	74,603	93		1	94	8
8	Shoe, slippers and other leather							-
	goods	172	1, 328, 987	800	40	2	842	8.8
10	Soap	40	1,023,378	143		1	144	8
30	Soup-paste and sauce	13	163,859	86	9		95	9
37	Spinnery	1	22,400	12			12	9
22	Tanneries	7	272, 184	37			37	10
35	Tile and brick	2	66, 977	50			50	8.5
21	Tin shops	51	299, 113	118		·	118	9.5
28	Trunk, harness and other	9	100 007	100			101	0
27	leather goods	9 1	192, 927 214, 000	120 105	100		121 213	9
45	Weaving	2	10,349	105	100	8		11 (b)
40 2	Wheel Wine and liquour distilleries	11	2, 490, 561	160	20	1	5 181	(0)
z	wine and inquour distineries		2,430,001	100	20		101	9
	Total	823	34, 324, 986	12, 196	4,102	583	16,881	9
		040	· ., ···· ., · · · · ·					

* Latest available data. b Without definite hours. c Unknown. d Production of 20 saw mills only.

•

TABLE NO. 32.—Approximate areas of the larger Islands of the Philippine Archipelago.

2 Minda: 3 Negroi 4 Samar 5 Panay 6 Palaw: 7 Mindoi 8 Leyte 9 Cebu. 10 Bohol 11 Masba: 12 Catano 13 Basila: 14 Busua: 15 Marino 16 Dinage 17 Jolo 18 Tablas 19 Guima 20 Polillo	Island.	644, 736	Non- commer- cial. Ha. 1, 767, 234 150, 272	Cultivated land. 	open land. Ha.	Unex- plored. 	Total.
2 Minda: 3 Negroi 4 Samar 5 Panay 6 Palaw: 7 Mindoi 8 Leyte 9 Cebu. 10 Bohol 11 Masba: 12 Catano 13 Basila: 14 Busua: 15 Marino 16 Dinage 17 Jolo 18 Tablas 19 Guima 20 Polillo	nao	4, 324, 484 7, 355, 008 644, 736	1, 767, 234 150, 272			Ha.	и.,
19 Guima 20 Polillo	ro te nuanes nga uque at	96, 256 1, 035, 864 446, 272 345, 792 36, 800 100, 992 90, 496 36, 736 72, 832 7, 680 7, 552 76, 032 27, 160	45,056 5,120 225,984 93,680 195,840 42,624 31,744 768 8,200 7,872 18,368 5,696 11,904 	79, 488 214, 208 184, 512 280, 448 3, 584 17, 152 195, 408 154, 368 108, 800 28, 160 11,800 9, 984 3, 840 22, 144 3, 264 18, 700 12, 800	$\begin{array}{c} 2, 633, 498\\ 259, 456\\ 370, 112\\ 106, 048\\ 555, 776\\ 7, 296\\ 350, 720\\ 126, 592\\ 219, 264\\ 169, 536\\ 208, 896\\ 1, 600\\ 23, 360\\ 13, 440\\ 52, 096\\ \hline 225, 192\\ 22, 400\\ 22, 400\\ \end{array}$	1, 477, 376 4, 736 22, 328 93, 544 73, 508	$\begin{array}{c} 10,774,784\\ 9,321,600\\ 1,274,112\\ 1,259,776\\ 1,163,200\\ 1,162,762\\ 1,069,984\\ 708,416\\ 442,176\\ 380,096\\ 380,096\\ 380,752\\ 151,552\\$
22 Tawita 23 Biliran 24 Siarga 25 Culion 26 Ticao 27 Siquijo 28 Balaba 29 Dumar	ras wi wi o or ic an	4, 544 21, 108 30, 336 42, 624 32, 640 41, 920 8, 576 14, 464 1, 152 30, 038 1, 280 8, 964	1, 280 3, 328 27, 700 2, 624 1, 600 1, 280 7, 584 2, 659, 322	11,008 7,192 5,838 5,632 5,184 6,080 13,760	42, 176 12, 736 7, 936 1, 536 5, 632 13, 312 15, 616	 6, 656 26, 112 	12, 104 61, 056 56, 000 51, 584 50, 560 48, 064 47, 104 40, 320 85, 456 31, 808 30, 038 29, 184 27, 776 1, 959, 430 31, 000, 000

[Source: Bureau of Forestry.]

160787-4

BUREAU OF INTERNAF, JMAL RELATIONS University or Controls **TABLE NO. 33.**—Annual disposition of public lands from 1908 to 1917.[•]

[Source: Bureau of Lands.]

		Home	Homestead.			Sales.	es.			Leases	ses.			Free patents.	atents.	
Fiscal year.	Appl	Applications received.	En	Entries allowed.	Appli rece	Applications received.	Accom	Accomplished.	Appli rece	Applications received.	Exec	Executed.	Appli rece	Applications received.	Issı	lssued. b
	Num- ber.	Area.	Num- ber.	Area.	Num- ber.	Area.	Num- ber.	Area.	Num- ber.	Area.	Num- ber.	Area.	Num- ber.	Area.	Num- ber.	Area.
10/10	9 106	Ha.	606	Ha.	2	Ha.	હ	Ha.	¥	Ha.		Ha.	9 045	Ha. 9 827		Ha.
1909	1,854	25, 010	157	2, 138	1 1 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	544	- - -	91	385	8,097			4, 495	11, 964	195	6E9
1911 1911	2, 789	10, 132 32, 525 96 069	414	5, 187	69	3, 496 3, 496	co w	1, 920	44	12, 399			80	35	141	910 910
1913	4,468	56, 172 56, 172 79, 961	312	3,909 1,909	289	6,403	9 6	8, 907	1618	22, 161 22, 161		6 708	191	5 890	62	2, 537
1915	7,465	94, 907	758	10,017	431	8, 333	នេ	749	82	15,616	- 01 1	448	1, 376	680		
1916 1917	8, 198 8, 922	109, 505 111, 733	3, 345 3, 330 3, 330	37, 990 69, 541	301 683	3,610	601 202	2, 757 893	166	20, 693 50, 604	39 5	1, 706 13, 103	1, 137	9, 070	2,216	2, 985 6, 702
				-	_		-	-	-	-	-		-		-	

^a No data available for 1918. ^b Free Patent is issued five years after the filing of an application.

The public lands of which there are 7,240,500 hectares suitable and available for agricultural purposes cover about 24 per cent of the entire area of the Archipelago and are disposed of by homesteads, leases, sales, and free patents. During 1917, 8,922 applications were received for homesteads, 166 for leases.

1,819 for free patents, and 683 for sales. A homestead is a parcel of unoccupied and unappropriated nonmineral agricultural public land, not exceeding sixteen hectares, disposed of and granted to any citizen of the United Function and the Philippine Islands who has resided upon the land for at least 2 years and cultivated it for the term of 5 years immediately succeeding the filing of application.

All unoccupied, unreserved, nomineral, agricultural public land, are subject to lease upon annual payment of not less than 50 centavos nor more than 1 peso and 50 centavos per hectare, to any citizen of the United States and the Philippine Islands or to any association or corporation of persons for a period of not more twenty-five years, each lease not to cover more than one thousand and twenty-four hectares for each such person, association or corporation. Upon the expiration of said period the lease may be renewed by the same lessee for another twenty-five years.

A parcel of unoccupied, unappropriated, and unreserved nomineral public land, not exceeding sixteen hectares for an individual and one thousand and twenty-four hectares for a corporation or like association, may be sold at a public auction to the highest bidder who must be a citizen of the United States and the Philippine Islands.

Any native of the Philippine Islands who has continuously occupied and cultivated an unreserved, unappropriated agricultural public land since August 1, 1898, and who is now an occupant and cultivator of the same, is entitled to have a patent issued to him without compensation for such tract of land, not exceeding sixteen hectares. TABLE NO. 34.—Area of land cultivated with principal crops and average yield per hectare. [Source: Bureau of Agriculture.]

Kilos. 789 843 843 843 843 843 843 857 857 906 Aver-age yield per hec-tare. Total. Hectare. 1, 968, 264 1, 968, 264 1, 963, 679 1, 963, 679 1, 977, 774 2, 158, 685 2, 156, 589 2, 155, 589 2, 263, 119 Area. Kilos. 525 370 519 688 688 767 718 792 Aver-age yield per hec-tare. Tobacco. Hectare. 53, 626 69, 015 57, 041 68, 991 60, 991 68, 931 58, 913 58, 913 58, 913 58, 913 58, 913 Area. $\begin{array}{c} Kilos \\ 1,835 \\ 1,475 \\ 1,475 \\ 1,654 \\ 1,946 \\ 1,948 \\ 1,948 \\ 1,948 \end{array}$ Aver-age yield per hec-tare. Sugar cane. Hectare. 83, 168 83, 168 120, 313 164, 261 176, 118 169, 436 173, 092 179, 761 185, 931 Area. Staple crops. Kilos. 442 551 302 302 438 439 439 554 Average yield per hec-tare. Rice. Hectare. 1, 192, 141 1, 192, 141 1, 078, 891 1, 078, 891 1, 141, 242 1, 140, 829 1, 140, 829 1, 140, 829 Area. Aver-age yield per hec-tare. $\begin{array}{c} 4, 638\\ 4, 514\\ 3, 501\\ 2, 404\\ 3, 278\\ 2, 666\\ 2, 923\\ 2, 923\end{array}$ Nuts. 5,713 Coconuts. Hectare. 164, 193 208, 421 230, 682 230, 682 230, 682 235, 212 245, 952 264, 148 275, 769 301, 220 Area. Aver-age yield per hec-tare. Kilos. 355 Abaca. Hectare. 475, 136 404, 160 432, 804 368, 211 437, 265 446, 665 488, 603 Area. 1910 1911 1912 1913 1914 1916 1916 1916 Year ending June 30-

^a Coconuts not included.

TABLE No. 34.—Area of land cultivated with principal crops and average yield per hectare—Continued.

					Minor	Minor crops.						
	Cacao.	80.	Coffee.	ee.	Corn.	'n.	Maguey.	uey.	Total.	ıl.	Grand tota	ota.
Year ending June 30-	Area.	Aver- age yield per hec- tare.	Area.	Aver- age yield per hec- tare.	Area.	Aver- age yield per hec- tare.	Area.	Aver- age yield per hec- tare.	Area. b	Aver- age yield per hec- tare. ^b	Area.	Aver- age yield per hec- tare. ^a
1910 1911 1912 1914 1916 1916 1916	Hectare: Hectare: (c) 1, 276 1, 042 1, 168 1, 168 1, 168 1, 011	Kilos, (c) (c) (c) (c) (c) 535 535 535 535 535 535	Hectare. (c) (c) (c) 648 788 839 839 660	Kilos. (c) (c) 174 174 828 828 828 828 828 891 901	Hecture. 579, 768 302, 516 340, 196 383, 709 421, 309 421, 309 421, 309 428, 293	Kilos. 677 677 677 662 662 870 812 812 812 812 812 812 812 812 812	Hectare: (c) 9, 283 18, 218 18, 218 19, 218 30, 804 28, 099	Kilos. (c) (c) 537 830 830 830 832 8435 612 612	Hectare. 579, 768 302, 516 351, 138 351, 138 354, 138 394, 63 464, 274 465, 063 458, 063	Kilos. 481 481 481 481 481 481 681 651 651 655 651 727	Hectare. 2, 548, 182 2, 148, 182 2, 148, 182 2, 372, 466 2, 643, 434 2, 543, 434 2, 543, 434 2, 543, 132 2, 721, 182 2, 721, 182	

Coconuts not included.

^b Cacao, coffee, and maguey excluded in 1910 and 1911.

Data not available.

52

In 1917 the average values of the staple crops produced per hectare were as follows: Hemp, #129.95; coconuts, #105.28; rice, #65.98; sugar, #208.54; and to bacco, #175.28. With the bacco, #175.23. With the exception of magney which is exported, all the minor crops are consumed locally.

[Source: Bureau of Agriculture.]

						Staple crops.	crops.				-
	Year ending June 30-	Abaca	ica.	Coconuts.	auts.	R	Rice.	Sugar	Sugar cane.	Tobacco.	.00.
		Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.
1910 1911 1912 1913 1914 1914 1916	1910 1911 1913 1913 1918 1916	Kilos. 168, 452, 144 171, 879, 598 159, 473, 376 140, 520, 332 157, 655, 653 154, 192, 492 152, 765, 278 160, 958, 355	P 26, 952, 343 27, 500, 736 28, 705, 208 32, 319, 676 32, 968, 009 30, 420, 742 42, 767, 339 63, 598, 136	Nuts. 937, 927, 927, 927, 927, 926, 1927 965, 1156, 699 1, 041, 181, 904 781, 585, 504 551, 266, 399 855, 815, 826 735, 278, 826 880, 588, 806	P 38, 941, 626 263, 261, 273 35, 9261, 273 36, 564 30, 535, 664 24, 651, 764 24, 430, 958 24, 430, 958 31, 975, 495	Kilos. 528, 054, 408 574, 842, 688 325, 429, 092 887, 972, 592 545, 683, 738 541, 683, 738 501, 0543, 736 573, 641, 208	P60, 620, 646 65, 991, 941 65, 991, 941 42, 306, 782 61, 787, 122 61, 770, 923 823, 8271 81, 377, 812	Kilos. 152, 639, 327 243, 924, 574 242, 334, 659 291, 386, 825 360, 176, 309 350, 281, 946 362, 338, 084	P15, 263, 938 24, 532, 938 26, 428, 626 25, 688, 450 25, 688, 450 28, 631, 1545 33, 212, 488 34, 136, 134 38, 704, 708	Kilos. 28, 006, 778 26, 518, 132 29, 583, 169 46, 060, 390 46, 060, 390 48, 731, 463 33, 302, 964 41, 139, 174 48, 928, 621	P 7, 561, 880 6, 889, 896 7, 987, 456 112, 436, 305 7, 084, 305 7, 259, 159 7, 259, 159 10, 883, 523
							Minor	Minor crops.			
	Year ending June 30-	30		Cacao.	ao.	Coffee		Corn.		Maguey.	ey.
	•			Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.
1910 1911 1913 1914 1916 1916 1916				Kilos. (a) (a) (b) (a) (b) (c) (a) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	(a) (a) (b) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	Kilos. (a) (a) (b) (a) (b) (b) (b) (b) (b) (b) (b) (b) (b) (b	(a) (a) (a) (a) (a) (a) (a) (a) (a) (a)	Kilos. 392, 484, 164 145, 395, 666 145, 395, 666 366, 569, 673 366, 569, 673 387, 138, 561 387, 031, 282 369, 454, 047	 P30, 191, 090 P30, 191, 090 11, 184, 280 11, 184, 280 15, 231, 082 15, 231, 082 16, 733, 902 17, 639, 800 17, 639, 800 	Kilos. (a) (a) (a) (b) (a) (b) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	(a) (a) (a) 4700 860, 754 860, 754 622, 587 622, 587 1, 747, 263 2, 750, 403 2, 750, 403

^a Data not available.

EURICALI OF INTERNATIONAL RELAT University of California

TABLE No. 36.—Consumption of rice in the Philippine Islands from 1902 to 1918.

[Sources: Reports of (1) Bureau of Customs and (2) Bureau of Agriculture.]

	. .			Consump	tion.
Year ending June 30-	Import. (1)	Production. (2)	Exports. (1)	Total.	Per capita.
1902 * 1910 1911 1912 1913 1914 1915 1916 1916 1917 1918	<i>Kilos.</i> 216, 403,000 184, 620,000 260, 249, 653 179, 204, 906 81, 788,027 175, 541, 102 183, 016, 248 179, 912, 493 159, 130, 511	<i>Kilos.</i> 321, 038, 032 528, 054, 408 574, 842, 688 325, 429, 092 685, 968, 024 636, 630, 792 498, 917, 735 584, 608, 193 791, 748, 075 963, 152, 140	Kilos. 5,748 1,785 35,729 17,142 33,370 221,453 47,542	Kilos. 537, 441, 032 712, 674, 408 777, 925, 688 585, 672, 997 865, 171, 145 718, 383, 090 674, 441, 695 767, 591, 071 971, 439, 113 1, 122, 235, 109	Kilos. 70.4 82.2 88.1 94.4 77.0 70.1 79.4 98.7 112.1

^a Production is taken from Census of 1903.

TABLE No. 37.—Rice production and consumption by provinces from July 1, 1917 to June 30, 1918.

[Source: Bureau of Agriculture.1]

[-		
Province.	Produc- tion, 1	Estimated consump- tion.	Surplus.	Shortage.
	Cavans.	Cavans.	Cavans.	Cavans.
Abra	138, 142	133, 870	4,272	
Albay	298, 679	6 00, 1 30		301,451
Ambos Camarines	366, 608	601, 885		235, 277
Antique	208,016	328, 400		120, 384
Bataan	1 3 3, 768	105, 300	28, 46 8	
Batanes	141	17,860		17,719
Batangas	323, 0 03	588,805		266, 802
Bohol	350, 588	632, 500		281, 912
Bulacan	781, 514	516, 340	265, 174	70 500
Cagayan	321, 757	395, 265		73, 508
Capiz	653,048	589,390	63, 658 90, 986	
Cavite	414, 471	323, 485	90, 980	1 449 509
Cebu	51, 728 635, 798	1, 495, 320 380, 935	254,863	1, 443, 592
Ilocos Norte	265, 206	351,000	204,000	85, 794
Ilocos Sur	1,285,063	934, 440	350, 623	00, 104
Iloilo	1, 285, 065	202,840	300,023	185, 964
Isabela	272,042	360, 305		88, 263
Laguna	492, 187	304,960	187, 227	00,200
La Union	475, 198	982, 860	101,221	507. f62
	410, 100	546, 895		546, 895
Manila, city of Mindanao and Sulu:		010,000		010,000
Agusan	9, 309	122, 615		113, 306
Bukidnon	0,000	119, 455		119, 455
Cotabato	8,257	200, 595		192, 338
Davao	20, 731	225, 790		205,054
Lanao	16, 283	163, 510		147, 227
Sulu	175	227,080		226, 905
Zamboanga	42,623	256, 505		213, 882
Mindoro	102, 109	131,000		28, 891
Misamis	98, 309	363,850		265, 541
Mountain	250, 593	795, 735		545, 142
Nueva Ecija	2,267,632	345, 150	1, 922, 482	
Nueva Vizcaya	97,058	71,215	25, 843	
Occidental Negros	413, 726	850, 650		436, 924
Oriental Negros	56, 565	544,750		488, 185
Palawan	13, 797	133, 790		119, 993
Pampanga	772, 119	554,775	217, 344	
Pangasinan	2, 585, 344	1,099,020	1, 486, 324	
Rizal	342, 315	370, 830		28, 515
Romblon	63, 525	135, 800		72,275
Samar	140,069	668,070		528,001
Sorsogon	75,610	412,990		337, 380
Surigao	189,664	241, 645		51, 981
Tarlac	1,019,161	344, 565	674, 596	161 011
Tayabas	360, 649	521,860	93,756	161, 211
Zambales	321,011	227, 255	93,756	
Total	16, 750, 472	19, 521, 285	5, 665, 616	8, 436, 429
Net shortage for the Philippine Islands in 1918				2, 770, 813

Note.--1 cavan is equivalent to 571 kilos.

TABLE No. 38.-Rice production by provinces from 1910 to 1918.

[Source: Bureau of Agriculture.]

	7 1918a	Cavan	068 138,142 945 0 200	298.	366.	208,	133,		323	39U,	101	653	414.	51,	635,	265,	1, 285,	16,	272,	492,	475,		259	050 8.	966 20,	691 16, 283		440 42,	701 100 176 00	410 (c)	344 250	676 2.267.	282 97,	942 413,	227 56,
	1916 1917	Javan. Cavan.		160	872	902	931	221	924	60J	000	690	826	286	804	808	479 1	337	518	III	542	 _	1	6	104,579 { 50,	29,		, ceo (000	000	121.018 191	042].	360	783	738
e 30—	1915 1	Cavan. C		509	792	202	470	248	848	000 666	000	107	561	289	402	155	263	575	943	886	480				106,481			10 700	44, 120 99 RAK	(c)	110, 552	899, 919 1.	56,477	229, 085	28, 776
ending June 30-	1914	Cavan.	23	221.122	403, 885	357, 535	90,691	314	239, 421	L13, 4/1	109 440	650.284	156, 674	23, 691	272, 223	272, 767	898, 972	19,301	218,030	232, 074	404,710	 			140,509						141, 117				
Year	1913	Cavan.	<u>e</u> e		395.	179,	103		324	, 1 <u>0</u>	010	419	240.	21.	591,	231,	.069	10,	187,	253,	533		(g)	•	(e)	e	e (() () () () () () () () () () () () () (o a		1.714.	79.	222.	6
ŝ	1912	Cavan	ê -		88	283,	88	;	. 9,	621 1120	1501	455	11.	29,	297,	173,	320,	21,	206,	121,	146,	 	(p)	(e)	(e)	(e)	e (38		392.	39.	197.	Π,
	1161	Cavan.	<u></u>		331.	182,	129,		20 20 20 20 20 20 20 20 20 20 20 20 20 2	181,	196	829 497.74	176.	24,	672,	380,	404,	••	140,	238	227,	 	(p)	(e)	(e)	(e)	e)	<u></u>	14,	14, 22		1.057.	36.	125.	16,
	1910	Cayan.	(a) 	101, 979	166, 32	166, 75	73,03					439.85										 	(p)	(e)	(e)	(e)	(i) 				06, 002				
ſ	Frovince.		1. Abra	a. Albav		5. Antique					10. Dulacali	11. Oagayan 19. Caniz	-	-			17. Iloilo		_	20. La Union	21. Leyte	45. MILLUALIAU ALIU DULU. A griegn	Bukidnon	Cotabato	Davao	Lanao	Sulu	Zamboanga			20. Monutain		29. Nueva Vizcaya		

28 Pannanda		527, 732	201.986	790, 966	611.665	447, 821	467, 783	692, 535	772, 119
		1.623,649	1,018,541	1,810,162	1, 196, 971	1,002,186	1, 278, 671	1, 831, 845	2, 585, 344
	160.	299, 619	23, 359	301.395	250,043	156.701	268.824	316.940	342,315
36. Romblon	E	(£)	(1	(J	(f)	E	(J	Ð	63, 525
87. Samar	152.	110, 144	39, 192	84, 523	79.824	75, 514	95, 354	138, 518	140,069
38. Sorsoron		69,498		59, 581	68, 163	65, 305	86,040	110,611	75, 610
39. Surirao	87.	58, 048		93, 296	67, 612	55, 924	85, 305	129,415	189, 664
40. Tarlac		717, 111	227, 395	782, 198	735, 725	571, 916	614, 389	645, 100	1,019,161
41. Tayabas	251,	225, 938		125, 682	186, 496	202, 395	191,663	278, 777	360, 649
42. Zambales		154, 297		282, 001	271, 473	207,916	179, 917	256, 664	321,011
Total	9, 181, 805	9, 997, 264	5, 659, 564	11, 929, 887	11, 071, 847	8, 676, 836	10, 167, 106	13, 769, 541	16, 750, 472

^a Estimated. ^b See Ilocos Sur.

^c See Mindanao and Sulu. ^d Subprovince of Agusan until 1914.

^e See Moro. f See Capiz.

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BUREAU OF INTERIOR IO UNIVERSITY OF CONTONAL RELATIONS

TABLE No. 39.-Abaca (Manila hemp) production by provinces from 1910 to 1917.

[Source: Bureau of Agriculture.]

l					Year ending June 30-	g June 30-			
	Province.	1910	1911	1912	1913	1914	1915	1916	1917
	Agusan Albay Ambos Camarines	Kilo. 1, 553, 610 19, 996, 740 17, 027, 027 132, 192	Kilo. 1, 574, 609 52, 414, 137 21, 787, 222 21, 787, 222 57, 241	Kilo. 1, 162, 846 48, 127, 933 20, 342, 678 60, 051	Kilo. 375, 716 33, 722, 967 23, 611, 096 23, 611, 096	Kilo. (a) 38, 896, 222 26, 824, 496 48, 030	Kilo. (a) 44, 182, 744 30, 959, 913 156, 151	Kilo. (a) 533, 514 23, 840, 757 23, 840, 757 220, 101	Kilo. (a) 26, 424, 985 19, 230, 292 216, 778
പ്രംപ്രം	Batang Batanes Batangas Bulacan Bulacan	124, 223 1, 474, 800	1, 199, 916	266, 559 1, 173, 683	262, 926 566, 177	299, 561 315, 538	287, 766 299, 099	267, 512 252, 062	267, 99 3 386, 695
9 1 983	Cagayan Cagaya Cavita Cavita Cabu	$\begin{array}{c} 906, 309\\ 747, 615\\ 2, 584, 015\end{array}$	$\begin{matrix} 1, 181, 383 \\ 1, 734, 758 \\ 2, 758, 269 \end{matrix}$	$\begin{matrix} 1,089,121\\ 1,882,110\\ 1,625,900\end{matrix}$	$\begin{array}{c} 1,128,791\\ 1,634,054\\ 741,200\end{array}$	$\begin{array}{c} 589,476\\ 1,225,661\\ 1,008,812 \end{array}$	$\begin{array}{c} 1,027,284\\ 1,338,902\\ 1,372,059\\ \end{array}$	1, 723, 999 2, 056, 067 1, 579, 718	$\begin{array}{c} 1, \ 725, \ 806\\ 2, \ 189, \ 057\\ 1, \ 959, \ 188\end{array}$
191 19 191 191 191 191 191 191 191 191 1	llocos Autre Llocos Stut. Roilo Babela	458, 815 837, 620	470, 264 701, 948	477, 927 987, 844	235, 572 978, 606	164, 017 583, 342	223, 005 836, 907	235, 361	336, 873 2, 151, 583
61222	La Union Lave Mavie Mindanao and Sulu	37, 926, 977	25, 682, 663	22, 919, 797	17, 119, 652	16, 438, 827 7, 148, 349	$\frac{18, 321, 210}{7, 228, 129}$	29, 142, 758 4, 205, 324	35, 536, 190 747, 632
23.23		(b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	(b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	(b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	(b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	395, 751 3, 476, 802 (a)	3, 515, 375 (a)	3, 946, 320 (a)	7, 573, 543 315 98, 289 98, 289 1, 930, 801 1, 685, 979 5, 850, 816
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%	Nueva Ecia Nueva Vizcaya Occidenta Negros Oriental Negros Pampanga	1,064,371 10,780,012	1, 038, 438 2, 341, 452	2, 108, 117 680	692, 272 1, 851, 333 2, 100	1, 610, 661 2, 768	233, 515 2, 401, 251	370, 121 2, 308, 129	312, 847 2, 692, 098

58

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33. Pangasinan								
34. Rizal 35. Samar 66. Samar	18, 901, 124	14, 938, 828	13, 385, 746	13, 297, 980	8, 108, 458	11, 420, 265	12, 697, 899	17, 418, 456 95, 198, 934
1 1	24, 400, 029 3, 913, 151	2, 713, 235	3, 767, 112	2, 627, 695	2, 144, 905	2, 982, 104	2, 744, 924	5, 553, 734
39. Tayabas 40. Zambales	9, 559, 290	1, 725, 080	1, 909, 727	1, 557, 832	1, 318, 375	1, 572, 714	1, 582, 560	1, 534, 476
Total	168, 452, 144	171, 879, 598	159, 473, 376	168, 452, 144 171, 879, 598 159, 473, 876 140, 520, 332 137, 635, 558 154, 192, 492 152, 756, 278	137, 635, 558	154, 192, 492	152, 756, 278	160, 953, 355
Per cent of increase or decrease Average value per kilo Total value	P0. 16 P26, 952, 343	2 per cent P0.16 P27,500,736	(7 per cent) P0.18 P28, 705, 208	(7 per cent) (12 per cent) (12 per cent) (12 per cent) (2 per cent) (12 per cent) (2 per cent) ((2 per cent) P 29, 968, 009	(12 per cent) P 0. 20 P 30, 420, 742	(2 per cent) P0. 28 P42, 767, 339	5 per cent
^a See Mindanao and Sulu.		^b Subprovince of Agusan until 1914	e of Agusan	until 1914.		° See Moro.	foro.	

^a See Mindanao and Sulu.

NOTE.-Figures in parentheses are decreases.

TABLE No. 40.-Sugar production by provinces from 1910 to 1917.

[Source: Bureau of Agriculture.]

ſ				Year ending June 30-	r June 30			
Frovince.	1910	1161	1912	1918	1914	1915	1916	1917
1. Abra. 2. Aorisan	Kilo. (a)	Kilo. (a) 3.605	Kilo. (a)	Kilo. (a)	Kilo. (a) (b)	Kilo. (*) (b)	Kilo. (*)	Kilo. 18, 330 (b)
	72, 484	157, 999	010.00				132, 445	200 00
4. Ambos Camarines	3.364.015	331, 433	5. 421, 965	300 - 6. 527. 605	4.404.640	4. 581, 682	4, 706, 417	4.368.233
6. Bataan	473, 805	396, 957	361, 942	633, 310	531, 204	964, 611	1, 137, 082	1, 232, 995
i. batanes 8. Bataneas	12, 077, 903	15, 194, 358	28.032,139	20, 534, 268	22,006,335		22, 174, 371	30, 422, 222
	122, 768	303, 537	480, 295	295, 487	208, 959	568, 173	763, 851	1,007,300
10. Bulacan	3, 443, 457	5, 401, 297 24, 604	1, 382, 569	5, 731, 800	7, 417, 812		7, 287, 917	8, 684, 217
_	425, 609	1, 069, 368	2, 539, 085	2, 228, 456	5, 791, 582	7,065,826	7, 697, 828	5, 519, 787
-	1, 575, 558	2, 940, 493	1, 512, 216	2, 743, 296	2, 774, 935	3, 426, 089	2, 889, 646	4,089,101
14. Cebu	2, 081, 792	4, 836, 981	8, 103, 620	6, 027, 951	9, 912, 686	9, 065, 856 1 080	12, 339, 318	11, 218, 228
	6. 395. 587	8,430,339	3, 131, 648	5 082 216	5,693,866	6.271,780	7, 114, 575	7. 911. 141
	7, 878, 673	11, 574, 434	21, 451, 096	30, 885, 789	34, 354, 667	35, 155, 894	32, 480, 252	29, 960, 823
	30,043							
-	1, 510, 410	1, 894, 274	2, 077, 303	2, 094, 709	4,461,851	9, 170, 487	9, 785, 700	10, 091, 500
	1,577,076	1, 898, 639	378,662	481, 262	2, 685, 741	2, 116, 580	2,208,588	2, 519, 456
21. Leyte	are 'aca	T, U34, 101	411,410	03.1, 430	1, 033, 418	2, 611, 800	4, 129, 912	4, 101, 030
22. Mindanao and Sulu					63, 720	405	702	
								1,000
Bukidnon	(e)	<u>و</u>	(c)					
Cotabato	(g)	Ð	(p)					
Davao		Ð.						
Lanao		5						101 TU
Sulu Zemhoange		(p)	(P)					4 350
Min	11. 195	12.903	12.213	53, 758	1, 154, 444	1,618,314	3, 515, 360	3, 494, 068
25. Misamis	45, 920	47, 817	11, 085		123, 990	41,500	45,500	58, 963
26. Moro	102,465	288, 167	30,200	493, 340	(a)	(n)	(n)	(a)
	143, 531	133, 904	38,412	20, 20, 200	9 456 147	0 005 500	43, 520	108,384
26. Nueva Ecija	939, 910 30, 025	118 790	1,034,001	1, 071, 411	o, 400, 14 (2, 300, 000	e, 010, 014	967 13 10 00
	61.556,860	94, 413, 401	518.	112. 098. 461	148, 068, 755	150.300.918	707.	145, 593, 997
81. Oriental Negros	3, 052, 825	4, 370, 385	3, 673, 904	8, 673, 395	12, 133, 258	10, 212, 623	12, 514, 435	7, 278, 406
32. Falawan	3, 130	3, (39		1, 331 -				

 Pampanga Pangasinan Pangasinan Rizal Samar Sorsogon 		28, 732, 198 2, 235, 129 1, 919, 321 545, 342 461, 219	63, 572, 765 4, 595, 935 3, 634, 155 3, 634, 155 738, 697	36, 784, 293 1, 699, 446 8, 722 8, 709 903	58, 810, 286 3, 281, 686 1, 443, 661 33, 207	62, 725, 878 2, 414, 255 1, 213, 357 110, 242	65, 275, 687 4, 282, 923 1, 441, 432	52, 443, 666 1, 475, 091 1, 627, 149 22, 423	61, 598, 041 2, 930, 900 2, 350, 920 49, 400 8, 130
88. Surigao. 30. Tayahac 40. Tayahas 41. Zambales		$\begin{array}{c} 26,881\\ 7,324,983\\ 958,111\\ 170,269\end{array}$	$\begin{array}{c} 121,440\\ 5,129,891\\ 1,157,538\\ 331,620\end{array}$	$\begin{array}{c} 9,009\\15,569,097\\10,047\\74,918\end{array}$	21, 102, 342 118, 305 55, 835	13, 015, 303 228 44, 036	12, 493, 464 6, 099 115, 951	9, 710, 852 270, 900 37, 663	13, 876, 576 276, 770 194, 600
Total		152, 639, 327	243, 924, 574	242, 334, 659	291, 386, 825	346, 429, 556	360, 176, 309	350, 281, 946	362, 338, 084
Per cent of increase or decrease Average price per kilo		P0.10	(60 per cent) P 0.10 P 24, 392, 457		20 per c P0 P23, 310,		5 per cent P 0.09 P 30,796,521	(2 per cent) P0.09 P31, 283, 764	3 per cent P 0.10 P 35, 525, 049
• See Ilocos Sur.	Department of Mindanao and Sulu.	Mindanao and	l Sulu.	° Subprovi	° Subprovince of Agusan until 1914.	n until 1914.	d See	^d See Moro Province.	je.

Norg.-Figures in parentheses indicate decreases.

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TABLE No. 41.—Copra production by provinces from 1910 to 1917. [Source: Bureau of Agriculture.]

(b) 15, 587, 139 4, 256, 454 300, 077 8, 360, 569 18, 204, 849 152, 071 7, 081, 429 136, 597 136, 597 179, 089 9, 033 23, 855, 918 23, 855, 918 23, 855, 918 599, 433 16, 577, 489 (^b) $\begin{array}{c} 10,528,594\\ 81,750\\ 7,970,594\end{array}$ 25,000 1,211,514 3, 828 1, 929, 272 5, 498, 665 637, 445 56 5 ----------1, 515, 131 1917 Kilo. Kilo. (a) (b) 10, 103, 430 8, 364, 890 8, 364, 890 120, 030 4, 567 36, 247 32, 926 4, 823, 530 106, 775 7, 970, 594 $15,710,508\\110,234\\4,845,983$ 645, 560 10, 895, 581 (^b) 7,051789,020 1, 471, 660 4, 395, 289 932, 329 14, 194, 902 ----------1916 886, 5, 452, Kilo. (a) (b) 13, 440, 927 12, 397, 706 179, 989 5, 328 730, 552 8, 162, 892 5, 082, 990 82, 605 8, 659, 254 22, 859, 388 95, 411 $\begin{array}{c} 445, 187\\ 10, 894, 672\\ (^{b})\end{array}$ 772 1, 148, 025 1, 608, 057 4, 382, 047 840, 295 15,408,078 4, 981, 319 1915 Kilo. (a) (b) 9, 847, 229 4, 519, 415 99, 756 3, 785 551, 304 4, 354, 341 4, 702, 088 115, 500 5, 118, 421 668, 924 9,098,455 190,072 4,215,066 $\begin{array}{c}
389,116\\
6,009,010\\
(^{b})
\end{array}$ 872, 012 2, 774, 687 576, 065 14, 719, 413 Year ending June 30-1914 226, 420 6, 299, 603 14, 773, 560 13, 795 1, 454, 810 2, 572, 534 1, 325, 071 Kilo. (a) 321, 792 8, 400, 546 4, 221, 758 59, 908 567, 357 9, 558, 478 143, 670 4, 973, 007 453, 031 3, 049, 551 6, 007, 883 146, 225 5, 145, 647 1913 (p ିଟିଟିଟିଟିଟି 606, 109 8, 115, 412 9, 956, 853 84, 168 10, 900, 667 $15,728,799\\487,885\\10,476,162$ $\begin{array}{c} 1, 921, 464 \\ 10, 746, 124 \\ 13, 194, 724 \\ 5, 440 \end{array}$ Kilo. (a) 128, 945 9, 807, 466 7, 319, 307 420, 117 ----2, 233, 206 3, 949, 814 1, 338, 384 2, 259, 260 1912 Ð. ିଟ୍ଟିଟ୍ $\begin{array}{c} 12,\,872,\,317\\ 92,\,291\\ 7,\,832,\,550 \end{array}$ $\begin{array}{c} 1, 353, 226\\ 2, 639, 030\\ 204, 936\end{array}$ $\begin{array}{c} 7,\,139,\,616\\ 14,\,309\\ 9,\,980,\,980\end{array}$ -----------154, 628 4, 635, 356 3, 335, 416 Kilo. (a) 154, 892 7, 935, 697 4, 493, 525 81, 378 54,6997,746,424 1, 450, 943 --------1911 ିଟ୍ଟ୍ଡି ÷ ÷ 5, 838, 229 33, 294 13, 870, 048 $14, 974, 362 \\ 68, 370 \\ 10, 238, 079$ $\begin{array}{c} 58,281\\ 1,807,270\\ 14,223,175\end{array}$ $\begin{array}{c} 1,367,578\\ 2,135,925\\ 293,153\end{array}$ Kilo. (a) 82,068 927,442 259,302 260,186 1, 073, 348 141, 417 7, 084, 129 1910 Ŧ Ð ÐĐ ÷ Driental Negros Agusan Bukidnon Province. Occidental Negros ocos Norte Mindanao and Sulu Jotabato _____ Nueva Vizcaya Nueva Ecija Jebu Capiz Leyte Palawan loilo Zamboanga La Union Antique Laguna Batangas Javao Sulu Agusan Javite locos Sur----sabela anao Ambos Camarines 3ataan Moro Mindoro Misamis Albay..... Manila, city of Batanes Bohol Mountain Bulacan -Cagayan. Abra.... 88222019814919614818151098 4.00.00.0-

33. Pampanga		-	_				-	
34. Pangasinan 35. Rizal	2, 313, 503	3, 007, 828	3, 905, 690	1, 096, 149	1, 623, 478	2, 372, 377	1, 942, 598	1, 713, 739
36. Samar	3, 269, 026	10, 219, 765	16,072,013	13, 063, 125	7,058,506	9, 570, 181	8, 822, 611	10, 416, 134
37. Sorsogon	6, 056, 404	5, 364, 947	8, 906, 650	3, 847, 956	3, 695, 311	5, 969, 258	5, 506, 747	6, 186, 258
38. Surigao 39. Tarlar	1, 727, 821	1, 603, 456	1, 181, 135	3, 379, 467	2, 815, 697	4, 033, 092	2, 242, 354	2, 597, 828
40. Tayabas 41 Zamhales	32, 918, 330 70, 082	25, 921, 837	34, 255, 316	25, 416, 236	23, 270, 459	38, 131, 758 91 803	31, 341, 323	39, 630, 420 91, 815
	700 101	000 '00	071 40	100, 403	170 46	PN0 'Te		1010110
Total	125, 140, 822	118, 323, 114 174, 035, 835 116, 699, 818	174, 035, 835		107, 382, 931 171, 573, 963	171, 573, 963	141, 764, 193	186, 510, 962
Fer cent of increase or decrease		(b per cent)	47 per cent	(33 per cent)	(8 per cent)	59 per cent	(17 per cent)	31 per cent
Average price per kilo	PU. 15 P18, 771, 123	P0. 15 P17, 748, 467	P29, 586, 092	P 0. 15 P 17, 748, 467 P 29, 586, 092 P 21, 005, 967 P 17, 385, 088	P0. 16 P17, 385, 088	P0. 11 P18, 377, 184	P0. 11 P0. 13 P0. 13 P0. 13 P0. 13 P18, 377, 184 P19, 016, 096	P0. 14 P26, 553, 153
^a See Ilocos Sur. ^b See Minds	^b See Mindanao and Sulu.		° Subprovine	^c Subprovince of Agusan until 1914.	until 1914.	Ð	d See Moro.	

Norg.-Figures in parentheses indicate decreases.

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63

TABLE No. 42.—Coconut oil production from 1910 to 1917.

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Bureau
[Source:

Frontace. 1910 1911 1913 1913 1914 1915 1916						Year ending June 30-	f June 30			
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$		Province.	1910	1911	1912	1913	1914	1916	1916	1917
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $			Liter.	Liter.	Liter. (*)	Liter. (a)	Liter.	Liter.	Liter.	Liter.
	പ്രംപ്രം	Agusan Albay Ambos Camarin Antique	1, 573, 841 120, 319 18, 884	133, 265 172, 185 9, 195	189, 882 114, 380 9, 803	528, 725 160, 516 1, 983	645, 133 205, 178 1, 363	(590, 912 274, 975 2, 478	210, 843 8, 093	464, 743 67, 910 5, 626
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	ഗ്~്ൽ ന്		342, 228	335, 659	985 57, 824	909 73, 732	2, 484 66, 391	2, 415 99, 712	2, 875 91, 104	1, 738 73, 467
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	9 4 98		49,068	296, 875	171, 804	1,450 49,073	429 84,865	45, 208 96, 579	144, 554	1, 126 58, 111
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	94.2	Cebu Noces Norte	954, 025 21, 782	686, 706	95, 623 2, 266	118,628 2,177	106, 704 635	216, 285	251, 309	250, 300
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	12.21		1,838	36, 950	820 31, 541	1, 257 24, 365 150	152 23, 286 1 086	2, 892 25, 743 1, 776	2, 441 22, 758 975	2, 53 3 29, 599 833
Mindlane or No Giult Z. S27 11, 247 13, 354 Aguesan (e) <td< td=""><td>95858</td><td></td><td>2, 169, 580 15, 194 138, 951</td><td>4, 230, 492 7, 924 216, 073</td><td>3, 305, 165 4, 436 229, 547</td><td>2, 550, 317 11, 126 606, 562</td><td>1, 859, 824 8, 849 256, 071</td><td>$1, 121, 930 \\9, 692 \\318, 285$</td><td>802, 532 17, 900 261, 188</td><td>1, 050, 266 17, 818 135, 350</td></td<>	95858		2, 169, 580 15, 194 138, 951	4, 230, 492 7, 924 216, 073	3, 305, 165 4, 436 229, 547	2, 550, 317 11, 126 606, 562	1, 859, 824 8, 849 256, 071	$1, 121, 930 \\9, 692 \\318, 285$	802, 532 17, 900 261, 188	1, 050, 266 17, 818 135, 350
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	ង់ន	Min					2, 827	11, 247	13, 354	173
	3 3888888888	NN MM is in the second se	200 200 200 200 200 200 200 200	(e) (a) (a) (b) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	(((((((((((((((((((2 2 2 2 2 2 2 2 2 2 2 2 2 2	(b) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	(a) (b) (c, 462 (c, 462 (c, 462 (c, 462) (c, 462	(a)	6, 872 6, 800 26, 800 1, 121 1, 12

33. Pampanga 34. Pangasinan 25. Riva	235, 556	199, 803	85, 308	75,217	110, 352	153, 646	120, 557	122, 285
	62, 866 69 915	130, 854	125, 263	109,601	7,027	19,278	10, 161	9,526
100 000 000 000 000 000 000 000 000 000	30, 049	3, 970	1, 114	11, 202	50, 690	5, 904	3, 330	2, 108 2, 108 8, 991
2 00. Taylac 1 1. Tayabas 41. Zambies	625, 229	32, 819	220, 780	609, 610 3, 481	110,317 3.418	110, 196	116,243 410	240, 819 240, 819 4, 566
dı Total	6, 993, 513	6, 602, 966	4,868,101	5, 010, 540	3, 595, 332	3, 175, 626	2, 688, 305	2, 623, 687
Per cent of increase or decrease	P0.30	(6 per cent) P1, 980, 890	(26 per cent) (3 P0.30 P1, 460, 430	per cent) P0.30 P1,503,162	(28 per cent) P0.34 P1, 225, 413	(14 per cent) P0.21 P662, 491	(15 per cent) P 0.27 P 713, 288	(2 per cent) P 0.31 P 831,810
^a See Ilocos Sur. ^b See Mindanao and Sulu	ao and Sulu.		° Subprovinc	^c Subprovince of Agusan until 1914	until 1914.		^d See Moro.	

Norg.-Oil produced from copra not included. Figures in parentheses indicate decreases.

69

EUREAU OF INTERNATIONAL RELATIONS

TABLE No. 43.—Tobacco production from 1910 to 1917.

[Source: Bureau of Agriculture.]

Province.	-	-		Year ending June 30-	June 30			
	1910	1161	1912	1913	1914	1915	1916	1917
1. Abra	Kilo. (s)	Kilo. (a)	Kilo. (a)	Kilo. (a) 2 043	Kilo. (+)	Kilo. (a) (b)	Kilo. (*)	Kilo. 240, 588 (^b)
2. Agusan 3. Albay			150		368			1,2
• •	27, 830	19, 964	7,654	32, 800	36, 302	46, 819	38, 254	32, 98(
	90 948	6, 486 70 978	9, 558 3, 870	6, 935 41. 268	4,853	13, 602 25, 719	15,602 47,563	11, 914 49, 107
8. Batangas 9. Bohol	21, 252		47, 113	103, 351	50, 037		87, 399	105,20
10. Bulacan	49, 358 4, 590, 156	4, 869, 606	5, 569, 134	9, 231, 881	6, 354, 300		6, 830, 561	6, 565, 16
	323, 978		32,644	281, 786	397, 531		6, 500	103, 20 9, 20
18. Cavite 14. Cehn	4, 734, 918		2, 038, 246	4, 497, 302	3, 813, 972		3, 816, 403	3, 680, 09
	507, 380		011,	1,065,301 650.647	911, 167 865, 328		1, 098, 834 516, 442	1, 200, 24
l6. llocos Sur 17. Iloilo	628, 452	ŝĝ	334	1, 503, 476	1, 129, 295		464, 186 15 757 178	637, 35 18 905 92
-	8, 333, 268		TO, 919, (02	14, 001, 100	900°	ŝ	÷-i	
19. Laguna 20. La Union	4, 368, 022	2, 886, 592	3, 268, 018	3, 613, 474	3, 507, 578	8, 732, 376 1 199 306	5, 090, 678	8, 544, 993 850, 246
		001,100	424,010					
22. mainta, Uty of 22. mainta, Uty of 23. Mindanao and Sulu					44, 546	40,301	63, 990	11.060
Agusan	(e)	(c)	(0)	(0)				30
Cotabato	Ð.	Ð	Ð	00				13.650
Davao	ĴĴ	(p)	() ()	Ð				
Sulu	<u>्</u> च	(J)	:E3	() ()				56.65
Zamboanga	(a) AA 022	(n) 21 344	32.705		48,706	41,972	41, 544	37, 80
24. Mindoro 26. Misamis	1, 748	3, 542	5,040		24, 614	62, 860		(p)
	4,646	251.114	0, 932 29, 663		92,769	151, 417		199, 30
	208, 610	438, 748	124, 293		574, 651 111 756	278, 408 56, 900		496, 7 159, 25
	838, 626	627, 486	239, 813	820, 236	984, 858 879, 524	606, 598	866, 740	887, 982 506, 192
31. Uriental Negros 32. Palawan	1. 380	1, 242	T00' 00T		7, 050	19, 120		3, 74

$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	241, 220 3, 111, 040 21, 650 411 698 44 05 44 065 4, 111, 040 4, 111 698 123, 111, 040 4, 111 698 123, 111, 201 166, 975 123, 1121, 500 23, 042 23, 043 101, 136 100,	22, 463	38, 302, 964 41, 139, 174 48, 928, 621	[18] per cent 7 per cent 19 per cent P0.15 P0.15 P0.22 P5,884,579 P7,259,169 P10,883,523	d See Moro.
2, 107, 636 2, 91, 310 2, 107, 030 2, 308, 106 36, 634 15, 272 93, 544 15, 872 93, 544 16, 872 99, 544 105, 426 99, 544 105, 426 16, 872 94, 444 16, 872 94, 444 16, 872 94, 544 16, 873 105, 426 16, 874 105, 426 17, 89, 896 102, 778 17, 661, 830 10, 277 17, 661, 830 10, 277 17, 661, 830 10, 277 10, 277 19, ercent)	6			14 per cent P0.15 P7, 109, 367	until 1914.
2, 107, 656 91, 310 2, 107, 080 2, 091, 310 36, 634 93, 634 15, 272 93, 634 15, 272 93, 544 16, 872 94, 444 66, 873 94, 444 66, 873 94, 544 16, 874 105, 426 93, 544 105, 426 94, 544 105, 426 16, 873 94, 444 17, 89, 936 105, 426 16, 873 106, 778 26, 61, 830 96, 889, 836 . 97, 561, 830 P, 7, 561, 830 P6, 889, 836	7, 272, 7, 235, 142, 142, 72, 72, 72, 72, 70, 70, 70, 70, 70, 70, 70, 70, 70, 70	- 1 99			nce of Agusan
2, 107, 636 2, 107, 636 58, 272 58, 272 24, 380 99, 544 28, 006, 778 99, 544 90, 51, 300 100, 77					° Subprovi
decrease			25,		'n.
decrease	2, 107, 030 58, 420 15, 272 24, 380	99, 544 2, 484	28, 006, 778	P0.27	tnao and Sult
	iran D	50 50	Total		

Note.-Figures in parentheses indicate decreases.

TABLE No. 44.—Monthly average prices of important crops in the Manila market, 1918.

[Source: Bureau of Agriculture.]

Article.	Jan- uary.	Feb- ruary.	March.	April.	May.	June.	July.	Aug- ust.

Abaca: For Japanese trade—	Kilo.	Wile	Kilo.	Kilo.	Vil.	Vila	Vila	12:1.
Tagal 1 fibor A A	91 541	<i>Kilo.</i> ₱1.541	P1. 502	P1. 541	Kilo. P1.541	Kilo. 1.541	<i>Kilo.</i> ₽1.541	Kilo. 1,541
Tagal 2, fiber BB Tagal 3, fiber CC Tagal 4, fiber DD	1.383	1.351	1.344	1.383	1.383	1. 383	1.383	1.383
Tagal 2, fiber CC	1.264	1.235	1.225	1. 264	1. 264	1.264	1.264	1.383
Tagal 4 fiber DD	1.106	1.075	1.066	1.107	1. 107	1.107	1.107	1. 204
For general trade-	1. 100	1.015	1.000	1.101	1.101	1.101	1.107	1.101
Extra prime, fiber A	. 964	.965	. 955	. 972	.972	. 905	. 822	. 81
Prime fiber B	. 949	.949	. 935	.941	.941	.882	. 806	.785
Prime, fiber B Superior current, fiber C	. 933	. 929	.91	. 913	. 913	.86	.791	. 761
Good current fiber D	91	.901	. 886	. 889	. 889	.84	.769	.741
Mid way, fiber E Streaky No 1, fiber S1 Streaky No 2, fiber S2 Streaky No 3, fiber S3 Streaky No 3, fiber S3	.873	.854	.853	.85	.85	. 803	.753	.708
Streaky No 1 fiber S1	.788	.795	.801	.81	.81	.773	.743	.676
Streaky No 2 fiber S2	.746	.731	.737	.743	.743	706	. 696	. 619
Streaky No 3, fiber S3	.686	.664	. 649	. 652	. 652	.617	. 609	. 548
Current, fiber F	.855	.838	.815	.81	.81	.767	.743	.676
Current, fiber F Seconds, fiber G	. 595	.605	.628	. 636	. 636	. 615	.617	.54
Brown fiber H	. 56	. 553	.567	. 597	.597	. 573	.569	. 498
Brown, fiber H Good fair, strips I	.792	.743	. 733	.739	.739	.702	.68	.61
Fair string J	.613	. 632	. 629	.621	.621	. 603	.601	. 538
Fair, strips J Medium, strips K	.521	. 553	. 53	.459	. 459	. 459	.459	. 44
Cogree string L.	.49	.522	.498	.427	. 405	. 427	.427	. 42
Coarse, strips L Coarse brown, strips M	.399	. 443	.409	.308	.308	.308	.308	.30
Daet coarse, strips DL	.316	.316	. 285	.194	.194	. 194	. 194	. 19
Daet coarse, brown, strips	.010	.010	. 200	.134	. 154	. 154	. 154	. 150
DM	.237	. 237	.211	. 134	. 134	. 134	. 134	. 134
Maguey or Sisal:	.201	. 201		. 104	. 104	. 104	. 104	. 104
Cebu-								
Maguey No. 1	. 332	. 34	. 374	. 403	. 403	.403	. 315	. 293
Maguey No. 2	. 324	200	.328	.364	. 345	.34	.25	. 232
Maguey No. 2 Maguey No. 3	.313	.322 .277	.328	.285	.285	. 285	.208	
Maguey No. 3	. 515	. 411	.210	. 489	. 469	. 200	.208	. 182
Mammar No. 1			. 387	. 387	. 387	.387	. 387	. 281
Maguey No. 1			. 001	.001	. 301	.001	. 001	
Maguey No. 1 Maguey No. 2 Maguey No. 3			.324	. 324	.324	. 324	. 324	. 248
Maguey No. 3			. 269	.269	. 269	. 269	. 269	. 202
Sugar: Iloilo—								
Sucon No. 1	. 096	. 099	.095	. 095	. 092	. 091	. 091	. 092
Sugar No. 1 Sugar No. 2	.090	.099						
Sugar No. 2	. 088	.091	.086	. 087	.085 .079	.083 .075	. 083	. 085
Sugar No. 3	.077	. 079	.082	. 083			.075	.075
Sugar No. 3 Sugar No. 4 Sugar No. 5	.071	.072	.078	. 079	.075	.071	.071	.072
		.068	.074	.075	.071	.067	.067	.067
Manilaa								. 099
Sugar No. 1								. 099
Sugar No. 2								. 095
Sugar No. 8								.031
Sugar No. 5								.000
96° centrifugal sugar of (New								
York)	.264	. 264	. 264	. 264	. 264	.264	. 264	. 266
Copra:	. 209	. 204	. 204	. 204		. 204	. 204	.200
Sun dried (Cebu)	. 164	. 178	. 193	. 193	. 202	. 171	. 166	. 189
Fair merchantable Manila	. 158	.17	. 193	206	.20	.178	.178	188
Laguna		. 162	. 181	.194	.188	. 166	.166	.178
Rice:	. 101	. 104	. 101	. 104	.100	.100	.100	.1.0
Saigon, second white	. 146	. 155	. 161	. 159	. 163	. 164	. 168	, 177
Native, second white, milled	.14	.154	. 159	150		.158	.17	.178
Native, second white, inned	.14		. 105	. 158	. 155	. 100		.110
Native, medium red grain,	195							
Native, medium red grain,	. 135	. 15	. 155	. 155	. 152	. 153	. 158	. 169
Native, medium red grain,	. 135	. 15	. 155 . 148	. 155	$.152 \\ .147$. 153 . 149	. 158 . 153	. 169 . 163
Native, medium red grain, milled Native, red grain Native, hand cleaned	. 135	. 15	. 155	. 155 . 148 . 148	. 152	. 153	. 158	. 169
Native, medium red grain, milled Native, red grain Native, hand cleaned Pangasinan, hand cleaned	. 135	. 15 . 145 . 143	. 155 . 148 . 149	. 155 . 148 . 148 . 148 . 149	. 152 . 147 . 147	. 153 . 149 . 147	. 158 . 153 . 147	. 169 . 163 . 147
Native, medium red grain, milled Native, red grain Native, hand cleaned Pangasinan, hand cleaned Maiz (corn)	. 135	. 15	. 155 . 148	. 155 . 148 . 148	$.152 \\ .147$. 153 . 149	. 158 . 153	. 169 . 163
Native, medium red grain, milled Native, red grain Native, hand cleaned Pangasinan, hand cleaned Maiz (corn) Fobsece:	. 135 . 129 . 102	. 15 . 145 . 143 . 11	. 155 . 148 . 149 . 136	. 155 . 148 . 148 . 149 . 116	. 152 . 147 . 147 . 147 . 129	. 153 . 149 . 147 . 111	.158 .153 .147 .117	. 169 . 163 . 147 . 11
Native, medium red grain, milled Native, red grain Native, hand cleaned Pangasinan, hand cleaned Maiz (corn) Fobsece:	. 135 . 129 . 102	. 15 . 145 . 143 . 11 1. 795	. 155 . 148 . 149 . 136 1. 795	. 155 . 148 . 148 . 149 . 116 1. 795	. 152 . 147 . 147 . 147 . 129 1. 795	. 153 . 149 . 147 . 111 1. 795	.158 .153 .147 .117 1.795	. 169 . 163 . 147 . 11 . 11
Native, medium red grain, milled Native, red grain Native, hand cleaned Maiz (corn) Tobacco: Isabela first Isabela second	. 135 . 129 . 102 1. 795 1. 28	. 15 . 145 . 143 . 11 1. 795 1. 28	. 155 . 148 . 149 . 136 1. 795 1. 28	. 155 . 148 . 148 . 149 . 116 1. 795 1. 28	. 152 . 147 . 147 . 129 1. 795 1. 28	. 153 . 149 . 147 . 111 1. 795 1. 28	. 158 . 153 . 147 . 117 1. 795 1. 28	. 169 . 163 . 147 . 11 1. 795 1. 28
Native, medium red grain, milled Native, red grain Native, hand cleaned Pangasinan, hand cleaned Maiz (corn) Fobacco: Isabela first Isabela accond	. 135 . 129 . 102 1. 795 1. 28	. 15 . 145 . 143 . 11 1. 795 1. 28 . 91	. 155 . 148 . 149 . 136 1. 795 1. 28 . 91	. 155 . 148 . 148 . 149 . 116 1. 795 1. 28 . 91	. 152 . 147 . 147 . 129 1. 795 1. 28 . 91	. 153 . 149 . 147 . 111 1. 795 1. 28 . 91	. 158 . 153 . 147 . 117 1. 795 1. 28 . 91	. 169 . 163 . 147 . 11 1. 795 1. 28 . 91
Native, medium red grain, milled	. 135 . 129 . 102 1. 795 1. 28 . 91 . 61	. 15 . 145 . 143 . 11 1. 795 1. 28 . 91 . 61	. 155 . 148 . 149 . 136 1. 795 1. 28 . 91 . 61	. 155 . 148 . 148 . 149 . 116 1. 795 1. 28 . 91 . 61	. 152 . 147 . 147 . 129 1. 795 1. 28 . 91 . 61	. 153 . 149 . 147 . 111 1. 795 1. 28 . 91 . 61	. 158 . 153 . 147 . 117 1. 795 1. 28 . 91 . 61	. 169 . 163 . 147 . 11 1. 795 1. 28 . 91 . 61
Native, medium red grain, milled	. 135 . 129 . 102 1. 795 1. 28 . 91 . 61	. 15 . 145 . 143 . 11 1. 795 1. 28 . 91 . 61 . 40	. 155 . 148 . 149 . 136 1. 795 1. 28 . 91 . 61 . 40	$\begin{array}{r} .155\\ .148\\ .148\\ .149\\ .116\\ 1.795\\ 1.28\\ .91\\ .61\\ .40\\ \end{array}$. 152 . 147 . 147 . 129 1. 795 1. 28 . 91 . 61 . 40	. 153 . 149 . 147 . 111 1. 795 1. 28 . 91 . 61 . 40	.158 .153 .147 .117 1.795 1.28 .91 .61	.169.163.147.111.7951.28.91.61.40
Native, medium red grain, milled	. 135 . 129 . 102 1. 795 1. 28 . 91 . 61	. 15 . 145 . 143 . 11 1. 795 1. 28 . 91 . 61 . 40 . 93	. 155 . 148 . 149 . 136 1. 795 1. 28 . 91 . 61 . 40 . 93	$\begin{array}{r} .155\\ .148\\ .148\\ .149\\ .116\\ 1.795\\ 1.28\\ .91\\ .61\\ .40\\ .93\\ \end{array}$. 152 . 147 . 147 . 129 1. 795 1. 28 . 91 . 61 . 40 . 93	. 153 . 149 . 147 . 111 1. 795 1. 28 . 91 . 61 . 40 . 93	.158 .153 .147 .117 1.795 1.28 .91 .61 .40 .93	$\begin{array}{r} .169\\ .163\\ .147\\ .11\\ 1.795\\ 1.28\\ .91\\ .61\\ .40\\ .93\\ \end{array}$
Native, medium red grain, milled Native, red grain Pangasinan, hand cleaned Kaiz (corn) Fobacco: Isabela fist Isabela fourth Isabela fourth Isabela fifth Cagayan first Cagayan first	. 135 . 129 . 102 1. 795 1. 28 . 91 . 61 . 40 . 93 . 77	. 15 . 145 . 143 . 11 1. 795 1. 28 . 91 . 61 . 40 . 93 . 77	$\begin{array}{r} .155\\ .148\\ .149\\ \hline \\ .136\\ 1.795\\ 1.28\\ .91\\ .61\\ .40\\ .98\\ .77\end{array}$	$\begin{array}{r} .155\\ .148\\ .148\\ .149\\ .116\\ 1.795\\ 1.28\\ .91\\ .61\\ .40\\ .93\\ .77\\ \end{array}$	$\begin{array}{r} .152\\ .147\\ .147\\ .129\\ 1.795\\ 1.28\\ .91\\ .61\\ .40\\ .93\\ .77\end{array}$. 153 . 149 . 147 . 111 1. 795 1. 28 . 91 . 61 . 40 . 93 . 77	$\begin{array}{r} .158\\ .153\\ .147\\ .117\\ 1.795\\ 1.28\\ .91\\ .61\\ .40\\ .93\\ .77\end{array}$	$\begin{array}{c} .169\\ .163\\ .147\\ .11\\ 1.795\\ 1.28\\ .91\\ .61\\ .40\\ .93\\ .77\end{array}$
Native, medium red grain, milled	. 135 . 129 . 102 1. 795 1. 28 . 91 . 61 . 40 . 93 . 77 . 57	. 15 . 145 . 143 . 11 1. 795 1. 28 . 91 . 61 . 40 . 93 . 77 . 57	$\begin{array}{r} .155\\ .148\\ .149\\ \hline \\ .136\\ 1.795\\ 1.28\\ .91\\ .61\\ .40\\ .93\\ .77\\ .57\end{array}$	$\begin{array}{r} .155\\ .148\\ .148\\ .149\\ .116\\ 1.795\\ 1.28\\ .91\\ .61\\ .40\\ .93\\ .77\\ .57\end{array}$	$\begin{array}{r} .152\\ .147\\ .147\\ .129\\ 1.795\\ 1.28\\ .91\\ .61\\ .40\\ .93\\ .77\\ .57\end{array}$	$\begin{array}{r} .153\\ .149\\ .147\\ .111\\ 1.795\\ 1.28\\ .91\\ .61\\ .40\\ .93\\ .77\\ .57\end{array}$	$\begin{array}{r} .158\\ .153\\ .147\\ .117\\ 1.795\\ 1.28\\ .91\\ .61\\ .40\\ .93\\ .77\\ .57\end{array}$	$\begin{array}{c} .169\\ .163\\ .147\\ .11\\ 1.795\\ 1.28\\ .91\\ .61\\ .40\\ .93\\ .77\\ .57\end{array}$
Native, medium red grain, milled Native, red grain Pangasinan, hand cleaned Maiz (corn) Tobacco: Isabela first Isabela second Isabela fourth Isabela fourth Isabela first Cagayan first Cagayan second Cagayan second Cagayan second Cagayan second	. 135 	. 15 . 145 . 143 . 11 1. 795 1. 28 . 91 . 61 . 40 . 93 . 77 . 57 . 44	$\begin{array}{r} .155\\ .148\\ .149\\ .149\\ .136\\ 1.795\\ 1.28\\ .91\\ .61\\ .40\\ .93\\ .77\\ .57\\ .44\end{array}$	$\begin{array}{r} .155\\ .148\\ .148\\ .149\\ .116\\ 1.795\\ 1.28\\ .91\\ .61\\ .40\\ .93\\ .77\\ .57\\ .44\end{array}$	$\begin{array}{r} .152\\ .147\\ .147\\ .129\\ 1.795\\ 1.28\\ .91\\ .61\\ .40\\ .93\\ .77\\ .57\\ .44\end{array}$	$\begin{array}{r} .153\\ .149\\ .147\\ .111\\ 1.795\\ 1.28\\ .91\\ .61\\ .40\\ .93\\ .77\\ .57\\ .44\end{array}$	$\begin{array}{r} .158 \\ .153 \\ .147 \\ .117 \\ 1.795 \\ 1.28 \\ .91 \\ .61 \\ .40 \\ .93 \\ .77 \\ .57 \\ .44 \end{array}$	$\begin{array}{c} .169\\ .163\\ .147\\ \hline .111\\ 1.795\\ 1.28\\ .91\\ .61\\ .40\\ .93\\ .77\\ .57\\ .44\end{array}$
Native, medium red grain, milled Native, red grain Pangasinan, hand cleaned Fangasinan, hand cleaned Isabela first Isabela first Isabela third Isabela fourth Isabela fifth Cagayan first Cagayan first Cagayan fourth Cagayan fourth	$\begin{array}{r} .135\\ .129\\ .102\\ 1.795\\ 1.28\\ .91\\ .61\\ .40\\ .93\\ .77\\ .57\\ .44\\ .33\end{array}$. 15 . 145 . 143 . 11 1. 795 1. 28 . 91 . 61 . 40 . 93 . 77 . 57 . 44 . 33	$\begin{array}{c} .155\\ .148\\ .149\\ \hline \\ .136\\ 1.795\\ 1.28\\ .91\\ .61\\ .93\\ .77\\ .57\\ .41\\ .33\end{array}$	$\begin{array}{r} .155\\ .148\\ .149\\ .149\\ .116\\ 1.795\\ 1.28\\ .91\\ .61\\ .40\\ .93\\ .77\\ .57\\ .44\\ .33\end{array}$	$\begin{array}{r} .152\\ .147\\ .147\\ .129\\ 1.795\\ 1.28\\ .91\\ .61\\ .40\\ .93\\ .77\\ .57\\ .44\\ .33\end{array}$. 153 . 149 . 147 . 111 1. 795 1. 28 . 91 . 61 . 40 . 93 . 77 . 57 . 44 . 33	$\begin{array}{r} .158\\ .153\\ .147\\ .1795\\ 1.28\\ .91\\ .61\\ .40\\ .93\\ .77\\ .57\\ .44\\ .33\end{array}$	$\begin{array}{c} .169\\ .163\\ .147\\ .11\\ 1.795\\ 1.28\\ .91\\ .61\\ .40\\ .93\\ .77\\ .57\\ .44\\ .43\end{array}$
Native, medium red grain, milled Native, red grain Pangasinan, hand cleaned Maiz (corn) Isabela first Isabela first Isabela third Isabela third Cagayan first Cagayan first Cagayan fourth Cagayan fourth Cagayan fourth Cagayan firth Cagayan firth Cagayan firth Cagayan firth Cagayan firth	. 135 	. 15 . 145 . 143 . 11 1. 795 1. 28 . 91 . 61 . 40 . 93 . 57 . 44 . 33 . 283	$\begin{array}{c} .155\\ .148\\ .149\\ \hline \\ .136\\ 1.795\\ 1.28\\ .91\\ .61\\ .40\\ .93\\ .77\\ .57\\ .44\\ .33\\ .283\end{array}$	$\begin{array}{c} .155\\ .148\\ .148\\ .149\\ .116\\ 1.795\\ 1.28\\ .91\\ .61\\ .40\\ .93\\ .77\\ .57\\ .44\\ .33\\ .283\end{array}$	$\begin{array}{c} .152\\ .147\\ .147\\ .129\\ 1.795\\ 1.28\\ .91\\ .61\\ .40\\ .93\\ .77\\ .57\\ .44\\ .33\\ .283\end{array}$. 153 .149 .147 .111 1.795 1.28 .91 .61 .40 .93 .77 .57 .44 .33 .283	$\begin{array}{c} .158\\ .153\\ .147\\ .117\\ 1.795\\ 1.28\\ .91\\ .61\\ .40\\ .93\\ .77\\ .57\\ .44\\ .33\\ .283\end{array}$	$\begin{array}{c} .169\\ .163\\ .147\\ .111\\ 1.795\\ 1.28\\ .91\\ .61\\ .40\\ .93\\ .77\\ .57\\ .44\\ .33\\ .283\\ $
Native, medium red grain, milled Native, red grain Pangasinan, hand cleaned Maiz (corn) Isabela first Isabela first Isabela third Isabela third Cagayan first Cagayan third Cagayan fourth Cagayan fourth Cagayan fourth Cagayan forth Cagayan forth Cagayan forth Cagayan forth Cagayan firth	. 135 	. 15 . 145 . 143 . 11 1. 795 1. 28 . 91 . 61 . 40 . 93 . 77 . 57 . 44 . 33 . 283 . 283 . 435	$\begin{array}{c} .155\\ .148\\ .149\\ \hline \\ .136\\ 1.795\\ 1.28\\ .91\\ .61\\ .93\\ .77\\ .57\\ .44\\ .33\\ .283\\ .435\\ \end{array}$	$\begin{array}{c} .155\\ .148\\ .148\\ .149\\ .116\\ 1.28\\ .91\\ .61\\ .98\\ .77\\ .57\\ .44\\ .33\\ .283\\ .435\end{array}$	$\begin{array}{c} .152\\ .147\\ .147\\ .129\\ .129\\ 1.795\\ 1.28\\ .91\\ .61\\ .40\\ .93\\ .77\\ .57\\ .44\\ .33\\ .283\\ .435\\ \end{array}$	$\begin{array}{c} .153\\ .149\\ .147\\ .111\\ .1795\\ 1.28\\ .91\\ .61\\ .93\\ .77\\ .57\\ .44\\ .33\\ .283\\ .435\\ \end{array}$	$\begin{array}{c} .158\\ .153\\ .147\\ .117\\ .178\\ .91\\ .61\\ .93\\ .77\\ .57\\ .44\\ .33\\ .283\\ .435\end{array}$	$\begin{array}{c} .169\\ .163\\ .147\\ .111\\ 1.795\\ 1.28\\ .91\\ .40\\ .93\\ .77\\ .57\\ .44\\ .33\\ .283\\ .435\end{array}$
Native, medium red grain, milled Native, red grain Pangasinan, hand cleaned Maiz (corn) Isabela first Isabela first Isabela third Isabela third Cagayan first Cagayan fourth Cagayan fourth to sixth	$\begin{array}{c} .135\\ .129\\ .102\\ 1.795\\ 1.28\\ .91\\ .40\\ .93\\ .77\\ .57\\ .44\\ .33\\ .283\\ .435\\ .332\end{array}$	$\begin{array}{c} .15\\ \hline .145\\ .143\\ .11\\ 1.795\\ 1.28\\ .91\\ .61\\ .40\\ .93\\ .77\\ .57\\ .44\\ .33\\ .283\\ .435\\ .332\end{array}$	$\begin{array}{c} .155\\ .148\\ .149\\ .136\\ 1.795\\ 1.28\\ .91\\ .61\\ .40\\ .93\\ .77\\ .57\\ .44\\ .33\\ .283\\ .435\\ .332\end{array}$	$\begin{array}{c} .155\\ .148\\ .148\\ .149\\ .149\\ .149\\ .128\\ .91\\ .40\\ .93\\ .77\\ .57\\ .44\\ .33\\ .283\\ .435\\ .382\end{array}$	$\begin{array}{c} .152\\ .147\\ .147\\ .129\\ .129\\ .28\\ .91\\ .40\\ .93\\ .57\\ .44\\ .57\\ .43\\ .283\\ .283\\ .435\\ .382\end{array}$	$\begin{array}{c} .153\\ .149\\ .147\\ .111\\ .1795\\ .28\\ .91\\ .61\\ .40\\ .93\\ .77\\ .57\\ .44\\ .33\\ .283\\ .435\\ .332\end{array}$	$\begin{array}{c} .158\\ .153\\ .147\\ .117\\ .117\\ .128\\ .91\\ .40\\ .93\\ .77\\ .57\\ .44\\ .33\\ .283\\ .485\\ .332\end{array}$	$\begin{array}{c} .169\\ .163\\ .147\\ .111\\ 1.795\\ 1.28\\ .91\\ .61\\ .61\\ .61\\ .63\\ .77\\ .57\\ .44\\ .33\\ .283\\ .283\\ .435\\ .322\end{array}$
Native, medium red grain, milled Native, red grain Pangasinan, hand cleaned Maiz (corn) Tobacco: Isabela first Isabela first Isabela third Cagayan first Cagayan first Cagayan fourth Cagayan fourth Cagayan fourth Cagayan fourth Cagayan fourth Cagayan first to third	. 135 	. 15 . 145 . 143 . 11 1. 795 1. 28 . 91 . 61 . 40 . 93 . 77 . 57 . 44 . 33 . 283 . 283 . 435	$\begin{array}{c} .155\\ .148\\ .149\\ \hline \\ .136\\ 1.795\\ 1.28\\ .91\\ .61\\ .93\\ .77\\ .57\\ .44\\ .33\\ .283\\ .435\\ \end{array}$	$\begin{array}{c} .155\\ .148\\ .148\\ .149\\ .116\\ 1.28\\ .91\\ .61\\ .98\\ .77\\ .57\\ .44\\ .33\\ .283\\ .435\end{array}$	$\begin{array}{c} .152\\ .147\\ .147\\ .129\\ .129\\ 1.795\\ 1.28\\ .91\\ .61\\ .40\\ .93\\ .77\\ .57\\ .44\\ .33\\ .283\\ .435\\ \end{array}$	$\begin{array}{c} .153\\ .149\\ .147\\ .111\\ .1795\\ 1.28\\ .91\\ .61\\ .93\\ .77\\ .57\\ .44\\ .33\\ .283\\ .435\\ \end{array}$	$\begin{array}{c} .158\\ .153\\ .147\\ .117\\ .178\\ .91\\ .61\\ .93\\ .77\\ .57\\ .44\\ .33\\ .283\\ .435\end{array}$	$\begin{array}{c} .169\\ .163\\ .147\\ .11\\ 1.795\\ 1.28\\ .91\\ .61\\ .40\\ .93\\ .77\\ .44\\ .33\\ .283\\ .435\end{array}$

^a Manila quotations are 50 centavos less than Iloilo.

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TABLE No. 45.--Livestock in the Philippines.

[Source: Bureau of Agriculture.]

Year.	Carabao.	Cattle.	Horse.	Hog.	Goat.	Sheep.
1910	756, 724	269, 963	142, 604	1, 681, 550	441, 455	94, 166
	863, 649	315, 495	151, 696	1, 703, 079	455, 291	93, 341
	956, 512	362, 230	170, 861	1, 888, 122	475, 794	98, 656
	1, 047, 164	418, 114	179, 089	2, 086, 736	528, 180	104, 147
	1, 147, 433	477, 736	215, 826	2, 285, 880	592, 042	118, 010
	1, 221, 866	534, 106	223, 195	2, 521, 143	644, 026	129, 470
	1, 228, 836	566, 199	208, 131	2, 734, 684	604, 332	130, 034
	1, 203, 760	557, 220	197, 663	(a)	(a)	(a)

^a No data available.

TABLE NO. 46.—Livestock in the Philippines for the year ending December31, 1917.

[Source: Bureau of Agriculture.]

Province.	Carabao.	Cattle.	Horse and mule.
Abra	24, 593	11, 598	6, 958
Albay	18, 392	3,384	3, 133
Ambos Camarines	23,058	3,466	407
Antique	22, 544	18,668	556
Bataan	9,409	770	395
Batanes	4	12,906	739
Batangas	16, 842	92, 474	29,853
Bohol	45, 442	20,942	4, 227
Bulacan	43, 598	2, 536	4, 466
Cagayan	58,408	3,904	5,850
	32,894	6, 187	564
Capiz Cavite	15,954	9,641	9, 981
	47,024	24, 720	13, 265
Cebu			
Ilocos Norte	58, 445	16,043	11,611
Ilocos Sur	45,686	22,736	4,641
Iloilo	59, 142	36,706	1,511
Isabela	33,603	3, 737	5, 469
Laguna	21,658	7,164	8,906
La Union	34, 922	7,274	2, 529
Leyte	40, 638	19, 215	4,481
Mindanao and Sulu:			
Agusan	1, 917	498	248
Bukidnon	442	52	727
Cotobato	413	218	24
Davao	5, 390	14,796	1, 174
Lanao	345	728	141
Sulu	351	1, 168	78
Zamboanga	9, 187	3,086	1,359
Mindoro	14, 864	28,654	3, 337
Misamis	15, 525	3, 970	3,854
Mountain	29, 124	26, 563	5,068
Nueva Ecija	54, 863	5,442	2,090
Nueva Vizcaya	10,606	3,513	891
Occidental Negros	43, 597	17,386	2,003
Oriental Negros	19,488	12,381	8,485
Palawan	6,432	15,845	231
Pampanga	39,931	1,488	8,972
Pangasinan	112,255	15,676	8,316
Rizal	19,057	2,900	4.004
Romblon	9,373	13, 147	2, 130
Samar	15,639	4, 553	1,490
Sorsogon	19,273	18,271	3,859
Surigao	20, 452	980	4, 720
Tarlac	31,083	1,479	1, 161
Tayabas	44,866	31,621	15, 474
Zambales	27,031	8,734	3, 285
Total for Philippine Islands	1, 203, 760	557, 220	197, 663

The raising of livestock is an exceptionally profitable industry in the Philippines. There is a great demand for work animals to supply the rapidly growing agricultural and other activities of development. A recent shipment of cattle from Madras, India, cost 1260 per nead placed at Pandacan, Manila. Meat and leather products form an important part of the Islands' imports. On the other hand, the vast areas of grassy land which cover about 17 per cent of the area of the Philippine Islands will feed enough animals not only to supply the country's needs but also for exportation to other countries.

69

Return to SUREAU OF INTERNATIONAL RELATIONS University of California

TABLE No. 47.-Utilization of forest products from private and public forests.

		Timber. 1		Forest charges. ²			
Fiscal year.	First group. ^b	Lower group. c	Total.	First group.	Lower group.	Total. d	
	Cu. m.	Cu. m.	Cu. m.				
908	25, 586	78,692	104,278	P55, 111	P74, 492	P129, 60	
909	35, 357	108,404	143,761	70,272	91,030	161.30	
910	31,962	121,656	153,618	76, 165	99,818	175, 98	
911	89, 312	145, 316	184, 628	96,890	129,405	226, 29	
912	52,091	172,856	224, 947	121,306	145,000	266.30	
913	59,422	217.749	277, 171	124,614	171,927	296.54	
913 a	23, 751	77, 752	101,503	122, 317	157, 345	279.66	
914	55,798	241, 297	297,095	143, 537	193, 861	337.39	
915	52, 512	226, 483	278, 995	128, 309	183, 935	312, 24	
916	55,060	288, 958	344,018	134,771	239, 226	373,99	
917	51, 431	318,700	270, 131	132,760	250, 323	383.08	

[Source: Bureaus of (1) Forestry and (2) Internal Revenue.]

^a July 1 to December 31, 1913.
 ^b First group: Acle, Baticulin, Betis, Camagon, Ebony, Ipil, Lanete, Mancono, Molave, Narra, Tindalo, and Yacal.

C Lower groups:

^c Lower groups:
 Second group: Alupag, Aranga, Banaba, Bansalaguin, Banuyo, Batitinan, Bolongeta, Calamansanay, Calantas, Dungon, Guijo, Macaasin, Malacadios, Mangachapuy, Palo Maria, Supa, Teak, and Tucan-calao.
 Third group: Agoho, Amuguis, Anubing, Apitong, Batino, Bitanghol, Catmon, Calumpit, Dalinsi, Dita, Dungon-late, Malacmalac, Malapapaya, Malasantol, Mayapis, Nato, Palosapis, Panao, Sacat, Santol, Tamayuan, and Tanguile.
 Fourth group: Includes all species not included in any of the other groups.
 ^d Only timber cut from public forests pay forest charges.

TABLE No. 48.-Utilization of forest products from public and private forests.

[Source: Annual Reports of the Director of Forestry.]

						W	Minor forest product	product.						
Fiscal year.	Char- coal.	Dyewood.	Dyewood. Tan bark.	Dye- bark.	Wood- oil.	Gumastic.	Gutta percha.	Fire- wood.	Rattan.	Diliman.	Stone.	Lime- stone.	Pitch.	Gogo.
1000	<i>cm.</i>	Kilo.	Kilo.	Kilo.	Liter.	Kilo.	Kilo.	<i>cm.</i> 100 F06	Kilo.	Kilo.	Kilo.	Kilo.	Kilo.	Kilo.
1909		1, 325, 065	1. 423. 370	115,040	314, 932	998. 784	37, 578		3. 639. 389	10.152			46, 297	
1910		1, 154, 614	3, 302, 939	98, 482	131, 377	1,092,398	96, 169		3, 069, 212		(e)	Ð	57, 629	
1911		1, 725, 746	2,012,385	87, 229	77, 540	707, 732	117, 140		4, 593, 655		(B)		125, 366	
1912		1,083,139	1, 682, 254	193, 878	86,080	910, 790	43, 965		3, 681, 490		26, 348	6, 600	153, 474	
1913		1,651,852	879, 785	81, 881	49,875	882, 958	85, 424		3, 065, 840	2, 578			203, 580	
1913 a	_	487,471	549, 894	89,454	46, 929	863, 455	96, 121		b 1, 312, 182	43, 611			86,040	
1914		493, 568	2, 798, 595	65, 672	117,561	1, 199, 404	76, 952		b 3, 348, 148	114,053	127, 175		50, 576	17,956
1915		1.462,837	1, 921, 305	96, 516	147,574	1, 478, 787	27, 291		b 2, 736, 363	96, 128	104, 721	95, 536	56.241	55, 308
1916		2, 381, 466	1, 545, 923	101, 562	63, 353	1, 089, 448	19,077		b 3, 114, 313	61,582	59, 432	186.519		157, 375
1917		1, 601, 026	3, 243, 251	88, 963	54,080	795, 911	26, 283		b 4, 607, 674	91,305	55, 067	387, 373	109, 386	202, 846
	_	_ -							_	-				
														;

^a July 1 to December 31, 1913; ^b excluding unsplit rattan; ^c unsplit rattan, 67,299,082 pieces; ^d 1,595,849 pieces; ^e 6,420 pieces; ^f limestone, 6,646 ollas; ^g 7,048 pieces; ^b excluding first-class for permanent structures and the manufacture of furniture.

Class.	Num- ber.	Capital subscribed.	Capital stock.
I. NATURAL RESOURCES	879	P 85, 449, 008.00	P67, 969, 046. 0(
1. Mining	109	21, 714, 279, 00	39,019,900.0
2. Agriculture	228	11, 178, 279, 00	21, 290, 146.0
3. Lumbering	31	2, 199, 330, 00	6, 959, 000. 0
4. Fishing	10	277, 120, 00	620, 000. 0
5. Others	1	80,000.00	80,000.0
II. COMMERCE	32 4	87, 156, 032.00	72, 448, 050.00
1. Wholesale and retail	143	10, 798, 880, 00	26, 655, 530, 0
2. Transportation		9, 744, 496, 00	19, 272, 020, 0
8. Banking and insurance		9, 400, 000, 00	11, 250, 000.0
4. Import and export		5, 380, 475, 00	9, 125, 000, 0
5. Drug store		596, 400, 00	2, 330, 000.0
6. Warehouse		413, 650, 00	1, 690, 000. 0
7. Commission and brokerage		169, 100, 00	406,000.0
8. Others		653,031.00	1,714,500.0
III. INDUSTRY		20, 055, 082.05	49, 502, 577.8
1. Construction and repair	28	4, 368, 255, 00	6, 687, 500.0
2. Distilleries and breweries	22	1, 173, 250, 00	8, 257, 500.0
 Electric light and power Vegetable oil Cigars and cigarettes 	14	2, 625, 290.00	6,687,500.0
4 Vegetable oil	17	1, 578, 300, 00	5, 104, 500.0
5 Cigars and cigarettes	10	808, 832, 75	1, 992, 000, 0
6. Printing and publishing	32	479, 661, 00	1, 352, 210.0
7. Shoes and other leather goods		451, 606, 00	902,000,0
8 Ice and cold storage	10	379,010,00	611,000.0
8. Ice and cold storage	8	254, 767.00	375, 867.0
10 Others	61	7, 936, 060. 00	13, 542, 000, 0
10. Others	478	2, 938, 032.44	17, 246, 494.4
1. Recreation	49	775, 214.00	2,083,200.0
2. Hotels and restaurants		527,045,00	1, 262, 600, 0
3. Educational and religious		232, 965, 00	487,000.0
4. Clubs and societies		8,980.44	38, 194. 4
5. Others		1, 398, 828.00	13, 375, 500.0
Total	1, 386	95, 603, 104.00	207, 161, 167.7

TABLE No. 49.—Domestic corporations incorporated from March 30, 1906to June 30, 1918.

Note.-Twelve corporations reported to have been dissolved are not included.

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;	Natu	Natural resources.	0	Commerce.		Industry.	Mii	Miscellaneous.		Total.
I ear.	No.	Capital stock.	No.	Capital stock.	No.	Capital stock.	No.	Capital stock.	No.	Capital stock.
1006 -	\$	00 000 036 14	1	00 000 000		50	0	9550 000 00	32	P6 017 500 00
1007	312	1.434.100.00	2 10	256,000,00	000	340.500.00	31	316, 944, 44	62	2, 347, 544, 00
1908	19	1.825.000.00	12	854, 500, 00	10	8	13	501,000.00	46	4, 302, 500.00
	30	9,248,700.00	11	3, 309, 000.00	~	8	20	465,000.00	74	<u>8</u>
1910	34	9, 444, 100, 00	18	4, 181, 000, 00	18	560	40	10,419,300.00	110	960.
1911	29	6,409,000.00	32	13, 588, 800, 00	15	100	35	1, 135, 500. 00	111	4 00
1912	23	4.027.000.00	35	5, 377, 500, 00	12	§	68	1, 078, 000. 00	109	<u>6</u> 0
	34	10, 185, 000, 00	37	4, 712, 500, 00	83	500.	40	733, 500, 00	134	200
1914	24	2.215.000.00	24	2. 137. 020. 00	19	110.	37	748,600.00	104	730.
1915	31	5, 956, 468, 00	24	4, 350, 000, 00	18	80	41	1,011,250.00	114	718.
1916	83	3, 341, 800.00	26	6, 931, 100, 00	17	307.	42	62, 000. 00	108	207.
1917	68	6, 653, 200, 00	44	9, 463, 500, 00	21	50.	67	102,400.00	88	800
1918b	45	2, 859, 678, 00	44	16, 392, 130, 00	31	500.	35	123,000.00	155	308.
Tota	379	67, 969, 046, 00	324	72.443.050.00	205	49.502.577.30	478	17, 246, 494. 44	1, 386	207, 161, 167. 74

^a First corporation was registered March 30, 1906.

^b From January 1 to June 30 only.

The increasing investments of capital in the Islands is shown by the fact that in 1917, 230 corporations were organized with a total capital stock of P21,953,600. In 1918, 155 corporations with a capital stock of P26,095,308 were in corporated up to June 30.

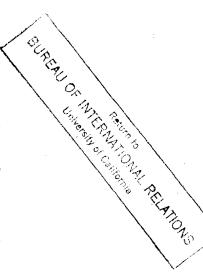


TABLE No. 51.—Domestic corporations registered from March 30, 1906 to June 30, 1918.

	.[stoT	1012 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	Others.	811 IIIIIIII
	Religious.	
Miscellaneous.	Hotels and rea- taurants.	
ellar	Recreation.	∞ ∞ ∞ ∞ ∞ ∞ ∞ ∞ ∞ ∞ ∞ ∞ ∞
Misc	Education.	0.04 4 0.04 0.01 0.01 0.0 0.0 1.0 0.00 0.0
	and chambers.	
	Othera. Cluba, societiea,	
	leather goods.	$\frac{1}{1} + \frac{1}{1} + \frac{1}$
	Shoes and other	
	Rice milla.	
trie	Eletric and power plants.	
Industries.	Ice and cold atorage.	
1	Distilleries.	3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Construction and repair.	
	Cigars and cig- arettes.	
	Printing and Saidsildug	52 July 1 1
	Others.	
	Drugs.	
	Warehouse.	
Commerce.	Commission and brokerage.	
mm	Transportation.	-0
ပီ	Bank and in- surance.	2
	Import and export.	
	Wholesale and retail.	<u> 0 1 − − − − 0 0 0 0 0 0 0 − − ₹ 0 − − − 0 0 0 0</u>
	Others.	
rces	.2aridziA	עריין איז
esou	Lumbering.	
Natural resources	.2niniM	·····································
Natu	Agriculture.	
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	Provinces. (Headquarters.)	Abra. Albay Antiques Camarines Antiques Camarines Antiques Camarines Bataan Bataan Capite Cavite Cavite Cavite Cavite Cavite Cavite La Union Lea Union Lea Union Lea ter Mindanao and Sulu Mindanao and Sulu Oriental Negros Oriental Negros Oriental Negros Oriental Negros Oriental Negros
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E No.
TABLE

Nationality.	Natural resources.	Commerce.	Industry.	Miscellaneous.	Total.	Total in Philip- pine currency.
Great Britain (nounda)	1.000.00	92. 679. 567. 00	45.000.000. C0	0.00	567.	1, 340, 044, 958. 00
Canada (dollars)	0.00	29, 848, 226, 54	0.00	0.00	29, 848, 226. 54	59, 696, 453.00
Australia (pounds)	400,000.00	150,000.00	150,000.00	0.00	8	6, 813, 100. 00
Honekone (dollars)	120,000.00	34, 235, 000.00		0.00	ğ	70, 260, 000. 00
British India (rupee)	0.00	2,300,000.00	0.00	0.0	g.	1,492,240.00
New Zealand (poinds)	17, 000. 00	13, 400, 000, 00	0.00	0.00	ğ	130, 587, 661. 00
Strait Settlements (dollars)	0.00	280,000.00	0.00	0.00	ğ	317, 912.00
Others (nesse)	120,000.00	1, 770, 000, 00	0.00	0.00	ğ	1, 890, 000. 00
Inited States	10.575.000.00	211, 224, 900, 00	50, 251, 000, 00	0.00	800	544, 101, 800, 00
Germany ? (marks)	0.00	376, 260, 000.00	0.00	0.00	ğ	179, 099, 760, 00
Tanan (vens)	0.00	124,000,000.00	0.0	0.00	ğ	123, 504, 000. 00
Netherlands (ouilder)	0.00	29, 750, 000, 00	0.00	0.0	ğ	59, 500, 000. 00
France (francs)	0.00	100,000,000.00	2,400,000.00	0.00	ğ	39, 526, 400.00
Snain (nesetas)	810,000.00	77, 920, 000, 00	00.00	43, 723. 11	723.	30, 406, 357, 00
Switzerland (france)	0.00	68, 000, 000, 00	290,000.00	0.0	ğ	26, 359, 940, 00
Austria (forina)	0.00	18, 900, 000, 00	0.00	0.00	8	15, 195, 600. 00
Tavo (mildare)	0.00	2,000,000.00	0.00	0.00	ĝ	4,000,000,00
talv (jive)	0.00	1,000,000.00	5, 500, 000. 00	0.0	ğ	2, 509, 000, 00
Belgium (francs)	0.00	2,600,000.00	0.00	3, 000, 000. 00	g.	2, 161, 600.00

Norg.-The amounts shown are the authorized capital in their home countries.

X	Natur	Natural resources.	C ₀₁	Commerce.	In	Industry.	Misc	Miscellaneous.	•	Total.
I CAL.	Number.	Capital.	Number.	Capital.	Number.	Capital.	Number.	Capital.	Number.	Capital.
1000		000								
1001 Tano		Fo, 630, 000. 00	.	P6, 215, 438, 62	24	P2, 953, 621, 94	4	P8, 097, 500.00	112	P22, 796, 560. 56
TORT		645,000.00	9	6, 300, 600, 00	9	- ·		220	26	121, 877
ZORT	-	7, 620, 800, 00	8	15,008,438.76	Π	~	01	ŝ	88	885, 922.
1903	12	4, 775, 809. 84	37	4, 627, 916.87	10	~i	01	526	61	041, 160
1904	9	453	58	22, 547, 733. 07	6	~	e	8	46	470, 233.
1905	- 1	33, 090, 000. 00	32	5, 579, 871. 13	20	~	23	010	61	752, 181.
1906		0.00	27	6, 464, 636. 49	80		01	80	37	049,887.
1907		0.00	29	2, 920, 301. 26	4	-	-	8	35	111, 801.
1908		0.00	21	4, 022, 487, 07	0	· ~	-	000	24	401.987
1909		0.00	12	5, 081, 197, 59	60	-		8	74	5, 136, 987, 96
1910.	e0	241,000.00	20	506.285.34	00		2	8		1.832.171.56
1911		0.00	12	876, 499. 40	00		-	20,000.00	8	500.883
1912	6	154, 400.00	30	2, 237, 716. 68	5			0	44	336, 612.
1913.	16	410, 931.30	211	7, 576, 945.20	8	_	eo	235.	252	8,650,611.50
1914		56, 294.00	158	7, 969, 861. 17	10	<u>.</u> •	2	16,800.00	181	359, 052.
1915	~	263,000.00	165	899,	24		1	ğ	193	767, 169.
1916		81,000.00	145	321,	12	. •	0	802.00	163	115, 102.
1917	~	40,000.00	146	243,	18			80	167	24, 428, 857, 48
1918	en	21, 225.00	68	6, 730, 688. 90	80			6, 148, 99	101	471, 968.
Total	6	54, 382, 460. 14	1, 339	146, 130, 115. 87	219	32. 775. 681. 69	31	11. 742. 771. 99	1.679	245.031.029.69
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TABLE No. 53.—Partnerships registered from January 5, 1900 to June 30, 1918.

TABLE No. 54.—Resources and liabilities of all commercial banks in the Philippine Islands.

[Source: Reports of the Insular Treasurer.]

RESOURCES.

		ſ	June 30	
KESOUKCES.	1910	1161	1912	1918
Loans and discounts Overdrafts	7, 799, 633, 63 14, 019, 037, 37 1, 399, 231, 067, 77 280, 067, 77 280, 067, 77 280, 067, 77 282, 686, 92 282, 686, 92 287, 054, 884 1, 672, 982, 63 1, 282, 63 1, 282, 63 1, 282, 63 1, 282, 63 1, 282, 63 1, 283, 633, 63 1, 283, 633, 633, 633, 635, 635, 635, 635, 63	P 7, 115, 454, 04 18, 189, 289, 228, 228, 228, 264, 04 564, 986, 91 586, 023, 69 586, 023, 69 588, 023, 69 588, 228, 228, 228, 228, 228, 228, 228,	 P.11, 262, 039, 79 23, 922, 339, 239 1, 473, 917, 361 2475, 174, 361 2476, 497, 32 496, 497, 32 496, 497, 32 496, 497, 32 568, 660, 99 568, 660, 99 568, 660, 99 567, 590, 541 18, 743, 115, 05 1, 509, 115, 05 	P11, 668, 880, 07 24, 668, 866, 07 14, 668, 866, 11 1, 450, 384, 103 305, 113, 02 334, 122, 62 334, 122, 62 334, 122, 62 1376, 994, 65 1, 756, 994, 16 1, 756, 994, 16 1, 756, 103, 16 1, 756, 103, 16 1, 486, 553, 11 1, 486, 553, 17 1, 486, 553, 77 1, 486, 553, 77
Total	45, 712, 910. 45	49, 115, 393. 72	71, 771, 455. 70	67, 403, 192. 95
Capital stock LIABILITIES. Capital stock Reserve fund. Undivided profits Undivided profits Undivided brokes Due to here banks Due to agent stand correspondents Due to agent stand correspondents Due to agent stand correspondents Due to here drift and correspondents Due to agent stand correspondents Due to here thanks Due to agent stand correspondents Due to here thanks Due to here than the deposits Due to here than those above Domestic Carrient account Pornestic Carrient account Domestic Domestic Profit and loss account Carrient hose above Total Distributies other than those above	P.2. 892, 800. 00 1,644,059. 86 1,644,059. 86 3311,500. 00 2,038, 772. 12 2,038, 772. 12 2,777,064. 16 10, 875, 449. 56 138, 638, 442 110, 875, 449. 56 131, 483. 311, 483. 311, 483. 311, 483. 311, 483. 311, 483. 311, 483. 311, 483. 311, 483. 322, 070. 18 2,764, 454. 67 2,266, 048 11, 316, 660. 08 1, 316, 660. 08 11, 316, 660. 08 1, 316, 660. 08	74,000,000,000,000 2,810,566,31 2,830,566,01 3,830,3346,01 3,830,3345,76 11,117,610,28 111,175,610,28 111,133,836,69 111,133,836,69 111,133,836,69 111,133,836,57 111,133,836,57 111,333,330,544 21,391,669 21,391,669 21,391,669 21,391,669 333,390,746 21,391,669 333,390,746 333,390,746 333,390,746 21,391,666 333,390,746 333,390,746 333,390,746 333,390,746 333,390,746 333,390,746 333,390,746 333,390,746 333,386,67 334,390,746 3354,675 354,475 365,475 365,475 366,774 367,475 367,475 367,475 367,475 367,475	P.5. 500,0000,00 2.557,902,000 2.817,902,000 5.818,877,50 5.381,877,50 5.814,877,50 5.381,877,50 5.654,14 2.75,564,14 27,565,50 118,280,986 11,685,50 127,482,50 138,24 131,234,471,27 23,525,50 132,304,85 13,348,471,27 133,394,471,37 384,471 138,394,47 21,522,55 138,394,47 21,522,55 138,394,47 21,522,55 138,394,47 21,522,55 138,394,47 21,522,55 244,127 21,522,55 133,394,47 21,522,55 245,319,925 558,339,935 256,339,391,925 558,339,925 258,3391,925 558,3391,925 2624,516,67 216,470 777,777,777 777,775	. P.5 , 500, 000, 00 3 (1), 274, 28 3 (1), 274, 28 5 (2), 214, 28 5 (2), 211, 28 5 (2), 211, 28 5 (2), 211, 28 5 (2), 211, 29 5 (2), 212, 32 112, 915, 607, 60 5 (2), 110, 42 5 (2), 666, 41 110, 925, 666, 41 110, 925, 666, 41 110, 925, 666, 41 110, 925, 666, 41 110, 225, 4124, 23 254, 238, 87 415, 421, 23 415, 421, 35 415, 421, 35 415, 421, 35 415, 421, 35 415, 421, 35 415, 4134, 75 415, 415, 415, 415, 415, 415, 415, 415,

			December 31-	er 31–			Increase or
RESOURCES.	1913	1914	1915	1916	1917	1918 a	(decrease.) 1917 over 1916.
Loans and discounts Overlards Stocks, securities, etc Banking house, furniture and fixtures Other real estate and mortgages owned Due from houd office and branches Due from agents and correspondents Bills of exchange	P.9, 591, 988, 41 24, 876, 639, 62 1, 559, 623, 03 317, 479, 70 312, 944, 77 312, 944, 87 312, 944, 87 312, 944, 87 10, 885, 771, 39 10, 882, 64 1, 317, 259, 178, 99	P9 , 387, 878, 074, 26, 971, 309, 13 26, 971, 309, 13 1, 431, 600, 48 239, 772, 18 239, 779, 98 238, 769, 98 10, 988, 882, 05 11, 267, 428, 94 1, 267, 428, 32 4, 909, 353, 21	 9.333, 279, 03 29, 690, 567, 61 1, 166, 633, 20 29, 690, 567, 61 1, 166, 633, 20 258, 393, 80 258, 393, 80 258, 393, 80 258, 395, 47 6, 861, 126, 44 6, 861, 126, 44 	21, 585, 237, 07 27, 213, 950, 87 2, 898, 946, 70 2, 898, 946, 70 151, 160, 60 151, 160, 60 9, 084, 551, 90 8, 173, 380, 64 8, 173, 380, 64 9, 559, 006, 99 9, 559, 006, 99	P 52, 871, 872, 23 30, 535, 890, 84 6, 559, 982, 02 559, 974, 52 386, 260, 36 2, 102, 618, 43 37, 572, 099, 61 37, 572, 099, 61 37, 572, 099, 61 37, 572, 096, 61 37, 573, 956, 954, 73 37, 575, 954, 954, 73 37, 575, 954, 954, 73 37, 575, 954, 954, 73 37, 575, 575, 954, 735, 755, 954, 775, 755, 954, 775, 755, 954, 755, 755, 954, 775, 755, 954, 755, 755, 755, 755, 755, 755, 755, 7	P115, 146, 704, 80 43, 740, 744, 76 11, 227, 937, 01 727, 937, 01 1227, 932, 007 122, 932, 007, 70 122, 932, 007, 70 31, 977, 097, 61 21, 696, 016, 61	731, 226, 135, 135, 15 3, 231, 339, 97 3, 643, 435, 32 3, 643, 435, 75 8, 935, 759, 75 235, 099, 76 (6, 981, 963, 47) 293, 934, 77 21, 194, 572, 29 14, 572, 29 14, 577, 29 14, 577, 29 14, 577, 29 14, 577, 20 14, 577, 20 14
Cash on hand	6, 400, 001. <i>to</i> 146, 649. 44 340, 824. 51 832, 861. 39	197, 698. 154, 108. 392, 192. 116, 059.	56, 523. 56, 523.	380, 867. 700, 579. 337, 244. 381, 868.	104, 111, 194, 008. 350, 804. 101, 855.	33, 180, 153, 25 298, 941, 02 564, 759, 70 43, 747, 486, 13	1, 793, 429, 43 13, 560, 53 18, 919, 987, 42
Total	63, 745, 929. 22	66, 639, 866. 94	71, 542, 868. 99	121, 954, 154. 30	239, 247, 726. 44	321, 442, 652. 25	117, 293, 572. 14
LIABILITIES. Capital stock	5, 500, 000. 00 2, 261, 639. 99 382, 500. 00 5, 310, 695. 00 321, 695. 00	016. 871. 871.	5, 500, 000. 00 2, 881, 671. 64 3, 848. 70 5, 304, 135. 00 5, 304, 135. 00	10, 396, 420, 00 1, 930, 321, 28 369, 336, 73 5, 841, 327, 50	765. 357. 357.	14, 631, 255 80 7, 558, 961. 73 247, 090. 12 11, 736, 652. 50	5, 772, 345. 80 2, 191, 442. 38 (209, 293. 83 4, 293. 606. 030. 00 2, 650. 606. 90
Due to outer banks Due to agents and correspondents. Due to head office and branches Dividends due and unpaid Dividends due and unpaid Filme deposits Savings deposits Current accounts	1306, L63: 03 1306, L63: 03 136, L63: 04 18, 773, 481. 79 227, 116, 60 227, 116, 60 14, 370, 101, 29 1, 167, 109, 76 13, 067, 169, 76	19, 726, 000. 23 19, 726, 000. 23 226, 906. 50 228, 906. 50 11, 488, 664. 29 11, 276, 489. 72 16, 600, 389. 46	20, 837, 084, 77 357, 084, 77 20, 832, 492, 76 283, 364, 95 88, 364, 95 15, 042, 159, 63 1, 157, 386, 12 15, 615, 968, 79	1, 125, 100, 11 12, 461, 940, 86 316, 266, 50 326, 664, 20 52, 137, 881, 74 4, 503, 170, 71 22, 798, 299, 91	2, 167, 407, 30 37, 401, 549, 72 786, 165, 40 60, 326, 05 96, 751, 432, 30 1, 591, 825, 29 1, 591, 825, 29 41, 690, 374, 89	6, 980, 135, 27 34, 841, 976, 94 719, 250, 66 216, 357, 55 29, 012, 308, 17 10, 731, 514, 32 145, 985, 280, 09	1, 737, 899, 25 24, 989, 608, 86 469, 899, 90 44, 613, 560, 588, 15 44, 613, 560, 56 (2, 911, 345, 42) 18, 892, 074, 98
Bills payable: Domestic	35, 484, 07 69, 077, 98 49, 764, 61 152, 610, 29 435, 710, 29 137, 999, 20 137, 999, 20 1, 184, 836, 42	12, 069. 59 42, 468. 81 497, 016. 17 328, 196. 89 722, 461. 18 2, 114. 67 2, 114. 67 1, 775, 074. 73	14, 586, 26 86, 254, 05 86, 358, 22 66, 358, 22 66, 358, 22 9791, 872 27, 503, 52 27, 509, 903, 65 2, 599, 903, 65	124, 621, 24 59, 624, 37 59, 624, 37 217, 542, 67 156, 738, 19 889, 007, 51 889, 007, 51 2, 257, 770, 74 5, 011, 891, 70	4, 218, 03 131, 389, 80 462, 337, 60 460, 765, 28 1, 162, 481, 69 658, 680, 81 21, 008, 637, 02	<pre> 10, 925, 088. 39 1, 147, 838. 16 1, 147, 838. 16 1, 323. 412. 63 153. 5112. 63 153. 5112. 63 44, 863, 954. 36 </pre>	 (120, 403, 21) 71, 765, 43 244, 794, 93 244, 973, 93 273, 961, 714, 19 15, 996, 745, 32 15, 996, 745, 32
Total	63, 745, 929. 22	66, 639, 866. 94	71, 542, 868. 99	121, 954, 154. 30	239, 247, 726. 44	321, 442, 652. 25	117, 293, 572. 14
		^a From January 1	to June 30	only.			

TABLE NO. 54.--Resources and liabilities of all commercial banks in the Philippine Islands--Continued.

TABLE No. 55.-Summary of the transactions of the Postal Savings Bank.

[Source: Bureau of Posts.]

		of ac-		Deposits.			Withdrawals.	als.	ă 	Balance.
	lear ending	counts opened.	Number. Average.	Average.	Amount.	Number.	Number. Average.	Amount.	Average.	Amount.
June 30-										
1907		2, 331	7,267	108.21	P786, 361.		143.25	P280, 499. 21		b P509, 46
1908		5, 389	18, 254	84.81	1, 548, 210. 57	7,423	158.18	1, 025, 679, 87	191.50	1, 031, 99.
1909		8, 782	24, 851	81.00	2, 012, 967.		137.54	1, 596, 002. 95		1, 448, 95
1910		13, 102	32.246	69.40	2, 237, 966.		124.99	2.007.679.20		1.679.24
1911		28, 804	63, 613	44.74	2,846,155.		110.25	2,425,927.32		2, 099, 47
1912		35, 802	61, 641	50.39	3, 106, 419.		96.92	2, 816, 907.:0		2, 388, 986, 42
1913		39, 909	56, 387	53.13	2, 997, 120.		90.59	2, 905, 624, 30		2.480.485
December 31-										
1913		42.271	33.661	49.35	1.660.840.13		46	1.319.189.73	.96	2.822.13
a 1914		48, 876	72.080	51.25	3, 694, 136, 22		92	3, 348, 253, 58	6	3, 168, 01
1915		54, 434	76, 538	46.74	3, 577, 523, 18		61	3.541,949.27	58.	3, 203, 58
1916		60, 759	87, 418	46.40	4, 056, 623. 77		20	3, 547, 811. 59	61.	3, 712, 40
1917		68, 860	101, 874	49.06	4, 998, 365.28	67,019	78.37	4, 468, 587. 68	61.61	4, 242, 17
1918a		76, 111	84, 339	60.71	4, 294, 795. 63		8	3, 852, 987. 58	62.	4, 783, 987. 15

^a From January 1 to September 30 only. ^b Interest accrued amounting to **?**3,601.52 included.

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[Source: Annual Report of the Treasurer of the Philippine Islands.]

160							-	
7876	Year.	Philippine sil- ver certificates and bank notes of P2 or over.	Silver pesos and bank notes of Pl.	Subsidiary and minor currency.	Amount in cir- culation.	Increase or decrease of circulation. a	Estimated popula- tion. b	Per capitacir- culation.
	June 30- 1006	•13 931 374 00	01 167 009 00	DE 632 035 00			007 100 S	1097
	1907 1907	20. 028. 454. 50	16. 313. 198. 00	6. 472. 662. 25	42.814.314.75	P12, 783, 903, 75	8, 213, 100	5. 2129
	1908	20, 526, 970.00	13, 866, 215.00	5, 944, 797.04	40, 337, 982. 04	(2, 476, 332.71)	8, 364, 200	4.8227
م د ا	1909	22, 996, 583. 15	12, 806, 817.00	5, 725, 207. 59	41, 528, 607.74	1, 190, 625. 70	8, 518, 100	4.8753
<u>e</u> l	1910	28,079,923.55	14, 501, 162, 00	6, 173, 611. 81	48, 754, 697.36	7, 226, 089. 62	8, 674, 900	5.6202
لاعدر الإ	1911	29, 995, 060, 69	12, 103, 080. 00 19 179 751 00	6 641 179 25 1	40, 100, 001. 10 59 055 209 07	9 000 905 89	8, 834, 500 0 007 CM	5.45U8
	1013	33, 622, 181, 80	11 594 609 00	6, 817, 597, 92	52, 034, 388, 72	(21 504 25)	9 162 600	5. 6790
	December 30-							
1	1913	32, 204, 950, 11	11.017.417.00	6, 874, 885. 67	50, 697, 252. 78	(1, 337, 135, 94)		5. 5331
J	1914	35, 430, 785, 81	10, 025, 975, 00	7, 118, 356, 93	52, 575, 117, 74	1.877.864.96		5.6343
(1915	34, 590, 991.00	9, 666, 064. 00	7, 027, 851. 76	51, 284, 906. 76	(1, 290, 210, 98)		5.3966
)[1916	47.616.660.50	11. 364. 874. 00	8, 077, 654, 54	67.059.189.04	15. 774. 282. 28		6.9351
	1917	76, 949, 056, 50	15, 127, 154.00	10, 504, 103, 07	102, 580, 313. 57	35, 521, 124. 53	9, 838, 700	10.4262
11	1918		00 010 100 01	01 010 001 0	000 000 001			0001 01
IT	January 31	01 100 070 000	10, 281, 240.00	9, 403. 310. 03	102, 999, 709, 53	419, 395, 96	do	10.4688
C	February 28	01, 102, 012. 00 05 641 094 00	16 159 914 00	10 101 925 25	10, 300, 420. 01	4,000,111.14	00	10.9141
Re	Mutrci 04	89 904 039 00	16, 085, 732, 00	10, 888, 394, 11	116, 878, 165, 11	4 689 481 26	op	11.8794
N	May 31	91, 551, 798, 00	16, 027, 499, 00	11. 259. 414. 64	118, 838, 711, 64	1, 960, 646, 53	do	12.0787
A	June 30	95, 074, 915.00	15, 980, 126.00	11,615,916.54	122, 671, 957. 54	3, 833, 145. 90	do	12.4683
T	July 31	95, 702, 707, 00	15, 941, 844. 00	11, 884, 573. 72	123, 529, 124. 72	857, 167. 18	do	12.5554
C	August 31	99, 060, 044. 00	15, 030, 725, 00	12, 118, 009.60	126, 208, 778. 60	2, 679, 653. 88	do	12.8278
1(September 30	98, 132, 753, 00	14, 979, 631.00	12, 306, 078. 66	125, 418, 462. 66	(790, 315, 94)		12.7473
٩V	October 31	99, 156, 217.00	14, 962, 600.00	12, 426, 149. 20	126, 544, 966. 20	1, 126, 503. 54	op	12.8619
L	a Riceres in nevent	are dered						
RI	^b Prof. H. O. Beyer, "Population of the Philippine Islands in 1916."	r's "Population	of the Philippin	te Islands in 1	916."			
El		•						
L.A								
41								
10								
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S								

TABLE No. 57.—Revenue from taxation.

[Source: Annual Reports of the Insular Auditor.]

Fiscal year.	Insular.	City of Manila.	Provincial.	Municipal.	Total.	Per capita tax.
1908 1909 1910 1911 1912 1913 1914 1915 1916 1916 1917	27, 397, 919, 03 25, 757, 990, 08 20, 103, 584, 47 25, 769, 492, 78	P1 , 572, 756, 46 1, 447, 946, 65 1, 621, 720, 68 1, 576, 400, 03 1, 691, 632, 06 1, 780, 917, 06 2, 027, 268, 11 2, 082, 341, 29 2, 129, 220, 01 2, 213, 318, 71	P4 , 442, 381, 36 5, 623, 173, 81 6, 159, 680, 27 6, 314, 247, 61 a , 6, 518, 800, 23 6, 268, 326, 57 6, 180, 704, 14 6, 774, 538, 17 7, 521, 054, 88	P2, 116, 125, 00 3, 253, 176, 05 4, 188, 605, 85 4, 708, 252, 17 4, 881, 729, 83 5, 178, 299, 85 5, 219, 499, 96 6, 051, 852, 75 6, 559, 234, 92 7, 534, 541, 18	P29, 150, 248, 49 32, 274, 926, 21 35, 190, 053, 74 37, 463, 794, 60 40, 225, 528, 53 39, 236, 007, 22 33, 618, 679, 11 40, 084, 390, 96 43, 420, 302, 05 52, 717, 327, 02	P3. 485 3. 789 4. 057 4. 241 4. 478 4. 282 3. 603 4. 218 4. 218 4. 218 5. 358

^a Calendar years. ^b Fiscal year changed to coincide with the calendar year.

TABLE No. 58.-Functional activities of the Central Government.

[Source: Reports of the Insular Auditor.]

	Total.		P17, 347, 132, 50 15, 992, 004, 14 16, 386, 641, 80 17, 920, 560, 91 b18, 218, 324, 85
	lopment.	Per cent.	16.844 15.709 19.007 17.845 14.271
	Economic development.	Amount.	P2 , 922, 011. 29 2, 512, 234. 48 3, 110, 889. 44 3, 197, 955. 45 2, 599, 911. 71
tions. a	ement.	Per cent.	31, 722 31, 008 31, 008 29, 868 28, 356 28, 356 28, 261
Capital expenditures by governmental functions.	Social improvement.	Amount.	P 5, 502, 890, 31 4, 958, 763, 41 4, 898, 445, 47 5, 081, 598, 45 5, 148, 660, 04
tres by gov	ervice.	Per cent.	37.019 38.382 36.793 37.511 40.248
apital expenditu	Protective service.	Amount.	P6, 421, 689, 40 6, 238, 020, 49 6, 021, 669, 51 6, 722, 114, 04 7, 332, 568, 85
Ŭ	stration.	Per cent.	14. 415 14. 901 14. 332 16. 288 17. 220
	General administration.	Amount.	P2 , 500, 541, 50 2, 382, 985, 76 2, 345, 637, 38 2, 918, 892, 97 3, 137, 184, 25
	Year.		1913 1914 1915 1916

^a No segregation of expenditures by governmental functions prior to 1913. ^b Aid to local governments, P8,974,049.32 not included.

Note-Figures are preliminary only, and subject to alteration in a later issue.

TABLE No. 59.—Financial condition of the Insular Government during the last three years.

Items of revenue and expenditure.	1915	1916	1917	Increase or decrease, 1916-1917.
Sources of revenue:		1		
Revenue from taxation	P25, 769, 492. 78	₽27, 957, 308. 95	P35, 448, 412. 30	P7, 491, 103. 35
Incidental Revenue	1, 191, 204. 53	1, 664, 392.05	2, 296, 270 32	631, 878. 27
Revenue from commercial and in-			1	
dustrial units	8, 479, 212. 96	9, 326, 810. 77	11, 832, 921. 62	2, 506, 110.85
Other income of operating units	80, 720, 73	175, 262. 89	52, 626. 02	(122, 636. 87)
Dividends on Bank stocks	0.00	157, 526.05	314, 786. 78	157, 260. 73
Income from United States Army				
Transport Service	0.00	125, 315. 10	337, 470. 62	212, 155. 52
Other revenues	3, 927, 589. 70	6, 298, 239. 88	4, 498, 753. 78	(1, 799, 486. 10
Total revenue	39, 448, 220. 70	45, 704, 855. 69	54, 781, 241. 44	9, 076, 385. 75
Expenditures:				
General administration	26.558.476.16	25, 384, 849, 41	29, 437, 890, 53	4,053,041.12
Expenditures of operation of in-				
dustrial and commercial units, etc.	7, 182, 996, 20	7, 623, 904. 40	9,063,829.24	1, 439, 924.84
Interest on public debt	972, 193, 75	1,000,117.30	1, 289, 822.62	289, 705. 32
Sinking funds	982, 786, 63	686, 873, 14	855, 639. 49	168, 766. 35
Repayment of loans	0.00	22, 500.00	22, 500.00	0.00
Gratuities	0.00	99, 476. 30	584, 353. 28	484, 876. 98
Outlays and investments	2,065,496.60	6, 042, 123, 53	3, 992, 291. 45	(2, 049, 832.08
Other expenditures	335, 251. 25	46, 969. 05	162, 391. 13	115, 422. 08
Total expenditures	38, 097, 200. 59	40, 906, 813. 13	45, 408, 717. 74	4, 501, 904. 61
Current surplus for the year	1, 351, 020. 11	4, 798, 042. 56	9, 372, 523. 70	4, 574, 481. 14
Current surplus at the beginning of the year	8, 883, 096. 66	10, 234, 116. 77	15, 032, 159. 33	4, 798, 042. 56
Current surplus at the end of the year	10, 234, 116. 77	15, 032, 159. 33	24, 404, 683. 03	9, 372, 523. 70

[Source: Reports of the Insular Auditor.]

Note.-Figures in parenthesis indicate decreases.

TABLE NO. 60.—Bonded indebtedness of the central and municipal governments of the Philippine Islands, June 30, 1918.

Legislature Act of Congress, approved August 29, 1916, and Act No. 2615 of the Philippine Legislature. Nos. 144, and 1954 of the Philippine Legislature. Act of Congress, approved July 1, 1902, and Act No. 1034, Philippine Com-Act of Congress. approved July 1, 1902, and Act No. 1323 of the Philippine Act of Congress, approved July 1, 1902, and Act No. 2009 of the Philippine Act of Congress, approved February 6, 1905, and Acts Authorization. Commission. mission. February, May, August, and November March, June, September, and December... February, May, August, and November... March, June, September, and December... January, April, July, and October do -----do March. June. September, and December Interest payable. op-----4 Per ct. Rate of in-terest. **4 4** 4 4 March 1, 1905 Feb. 1, 1906 Aug. 1, 1909 Date of bonds. 1905 1907 1908 1, 1916 1904 1, 1911 പ്പ്പ് 4 Feb. Aug. June Feb. Jan. 8, 000, 000. 00 Dec. Jan. Jan. 5,000,000.00 2,000,000.00 3,000,000.00 2,000,000.00 4,000,000.00 2,000,000.00 Friar lands ten thirtieth year gold bonds, due February P14,000,000.00 250, 000.00 40, 250, 000, 00 Amount. Total bonded indebtedness First series, due March 1, 1335. Second series, due February 1, 1336. Third series due August 31, 1339. Cebu Waterworks ten thirtieth year gold bonds, due January 1, 1941. Manila Railroad purchase ten thirtieth year gold bonds, due December 1, 1946. Manila sewer and waterworks ten thirtieth year gold Public works ten thirtieth year gold bonds: Title. bonds: 1. 1934

[Source: Annual Reports of the Insular Treasurer.]

Nore.-The total bonded debt of the Insular Government on September 30, 1918 is \$32,000,000. The total amount set aside to pay off this bonded debt at maturity is \$8,069,679.11 on September 30, 1918.

Table	No.	61.—Reserve	for	redemption	of	indebtedness	of	the	Insu lar
				Governmen	t.				

	D-11	Total si	inking fund res	serve at end o	of year.	Balance of bonded in-
Year ending—	Bonded in- debtedness.	Friar lands bonds.	Public Works bonds.	Manila Railroad bond.	Total.	debtedness not provided for at end of year.
June 30-						
	P24, 000, 000, 00	P1, 205, 098, 72	₽547,052,57		P1, 752, 151, 29	P22, 247, 848, 71
1909	24,000,000.00		714, 201, 01		2, 106, 042, 19	21, 893, 957, 81
1910	24,000,000,00		882, 973, 17		2, 759, 727. 40	21, 240, 272, 60
1911	24,000,000.00		1, 124, 083.01		3, 835, 876. 73	20, 164, 123. 37
1912	24,000,000.00	3, 384, 929. 20	1, 370, 517.07		4, 755, 446. 27	19, 244, 553. 73
1913	24,000,000.00	4, 166, 972. 68	1,634,913.72		5, 801, 886. 40	18, 198, 113.60
December 31						
1913	24,000,000.00		1,726,702.38			17, 846, 311.43
1914	24,000,000.00		e 1, 711, 665. 17			18, 432, 373.64
1915	24,000,000.00		1, 970, 202. 25		6, 550, 412. 99	17, 449, 587.01
1916 ^b	32,000,000.00	f 4, 087, 082. 86	2,237,788.10		6, 324, 870. 96	25, 675, 129.04
1917	32,000,000.00		2, 514, 739. 45			24, 819, 489.55
1918 c	32,000,000.00	4, 938, 713. 43	2, 815, 535, 18	315, 330. 50	8,069,579.11	23, 930, 420.89
December 31 1913 1914 1915 1916 ^b	24,000,000.00 24,000,000.00 24,000,000.00 32,000,000.00	4, 426, 986, 19 ^d 3, 855, 961, 19 4, 580, 210, 74 ^f 4, 087, 082, 86 4, 510, 030, 34	1, 726, 702. 38 e 1, 711, 665. 17 1, 970, 202. 25 2, 237, 788. 10		6, 153, 688. 57 5, 567, 626. 36 6, 550, 412. 99	17, 846, 31 18, 432, 37 17, 449, 58 25, 675, 12 24, 819, 48

[Source: Reports of the Treasurer of the Philippine Islands.]

^a Friar Lands Bond, **71**4,000,000, Act No. 1084, February 4, 1902, and Public Works Bond, **710**,000,000. Acts Nos. 1301, 1444 and 1954. ^b Increase in Bonded Debt in the sum of **78**,000,000 is due to the purchase of the Manila Railroad Company, Act No. 2615, December 1, 1916. ^c From January 1 to September 30 only. ^d Decrease of funds due to reversion of **71**,300,000 surplus in accordance with Act No. 2434. ^c Decrease of fund is due to reversion of **72**,827,752.85 surplus in accordance with Act No. 2425. ^f Decrease of fund is due to readjustment to place the sinking fund in a correct amortization basis in accordance with Act No. 2550.

TABLE No. 62.—Real estate property in the Philippine Islands in 1917.

[Source: Report of the Insular Auditor for 1917.]

	Assessed	d value of real	property.	Beel	Per ca	pita.
Provinces and cities.	Taxable.	Exempt.	Total.	Real estate tax.	Value of real estate.	Real estate tax.
Abra	P2 , 991, 750.00	P301, 650. 00	P 3, 293, 400. 00	₽19, 8 3 7	P50. 535	P. 3 04
Albay	31, 494, 500.00	4,671,690,00	36, 166, 190, 00	268, 895	123.792	. 971
Ambos Camarines	20, 541, 670.00	2,606,600.00	23, 148, 270, 00	200, 191	75.581	. 683
Antique	4, 240, 220.00	757, 080. 00	4, 997, 300.00	49, 397	31.259	. 308
Bataan	4,892,210.00	956, 180.00	5, 848, 390. 00	39, 977	114.077	. 779
Batanes	1, 113, 440.00	141, 200. 00	1,254,640.00	5, 045	144.460	. 580
Batangas	16, 991, 420, 00	2, 117, 160.00	19, 108, 580.00	139, 137	66.635	. 485
Bohol	17,251,490.00	3, 949, 390.00	21, 200, 880.00	157,881	68.885	.513
Bulacan	30, 867, 880.00	5, 578, 020.00	36, 445, 900.00	253,900	145.019	1.010
Cagayan	13, 953, 960.00 11, 972, 810.00	3, 365, 530, 00 2, 533, 040, 00	17,319,490.00	152,345	90.008 50.555	. 781
Capiz	10, 931, 160, 00	2, 205, 520, 00	13, 136, 680, 00	103,080 78,795	83.419	. 359
Cebu		6, 588, 940, 00	33, 818, 250, 00	206, 890	46.456	. 284
llocos Norte	13, 234, 390.00	2, 438, 210, 00	15,672,600.00	116, 411	84.513	627
llocos Sur	12,064,340,00	1, 797, 290, 00	13, 861, 630, 00	102,624	81.706	. 600
Iloilo	27, 111, 560.00	8, 117, 030, 00	35, 228, 590, 00	242, 440	77.440	. 533
Isabela		733, 580, 00	12, 166, 330, 00	102, 719	123. 195	1.040
Laguna	26,067,590.00	2,427,720.00	28, 495, 310, 00	220, 251	162.401	1.255
La Union	11,043,160.00	1. 417. 190. 00	12, 460, 350, 00	106, 917	83.931	. 720
Leyte	30, 049, 120, 00	3, 157, 170, 00	33, 206, 290, 00	218, 255	71.484	. 435
Mindanao and Sulu:						
Agusan	1,669,240.00	342, 630.00	2,041,870.00	18,449	33.044	. 299
Bukidnon		92, 760. 00	1, 309, 060, 00	000	21.743	
Cotabato	687, 071. 00	110.520.00	797, 591.00	6,287	7.888	. 062
Davao		262, 336.00	5, 746, 922.00	46,216	5.050	. 406
Lanao	659, 930.00	68, 660, 00	728, 590.00	5, 369	8.842	.066
Sulu		93, 533.00	1,088,883.00	6,244	9.244	. 055
Zamboanga	8,236,121.00	1, 272, 952.00	9, 509, 073.00	99, 409	73.557	. 769
Mindoro		189, 628, 95	4,713,996.75	37,274	73.913	. 584
Misamis Mountain		1,059,880.00	16, 925, 700.00	145, 465	95.556	.884
Nueva Ecija	27, 290, 150, 00	148,590.00 1,782,190.00	611, 380. 00 29, 072, 340, 00	31, 221 179, 914	18.343 173.228	.111
Nueva Vizcaya	2, 290, 569, 00	1, 182, 150, 00	2,431,120.00	17, 785	70. 131	.513
Oriental Negros	27, 662, 100, 00	3, 581, 520.00	31,243,620,00	251,082	75.444	.606
Occidental Negros	9, 199, 340, 00	1, 806, 950, 00	11,006,290,00	82, 412	52.970	.317
Palawan	936, 970, 08	308, 206, 69	1,245,176.77	4, 425	10.910	.067
Pampanga	22, 289, 670, 00	3, 461, 890, 00	25, 751, 560.00	207.681	95.348	.769
Pangasinan	35, 806, 970, 00	6, 544, 270.00	42, 351, 240.00	295, 111	79.157	.551
Rizal		6, 482, 930, 00	31, 239, 090, 00	199, 733	173.044	1.106
Romblon				13, 324		. 201
Samar	12, 476, 960.00	3, 175, 910, 00	15,652,870.00	152, 984	48.128	. 470
Sorsogon	15, 545, 380.00	1, 781, 510.00	17, 326, 890.00	124, 689	86.182	.661
Surigao	6,513,050.00	1, 417, 875.00	7, 930, 925.00	53,815	76.741	. 457
Tarlac	15, 918, 920.00	2,055,870.00	17, 974, 790.00	145, 522	107.159	. 862
Tayabas	41, 329, 910.00	6,602,660.00	47, 932, 579.00	375, 546	249.285	1.537
Zambales		439, 500.00	5, 321, 540.00	50, 957	48.100	. 465
City of Manila	104,034,710.00	64, 366, 623.00	168, 401, 333.00	1, 566, 912	632.505	5.885
Total	716, 625, 420. 88	169, 558, 485. 64	886 189 006 50	6,956,901	90,071	0,688
United States	110, 020, 420. 80	100, 000, 400. 04	886, 183, 906. 52	0, 550, 501	995.054	4.12,
S MICOL D MICOD					000.004	1 2. 161

Note.—A greater part of the exempted property valued at about P150,000,000 belongs to the various religious denominations in the Islands.



TABLE No. 63.—Health statistics of the Philippine Islands from 1904 to 1917.*

	Philippine Health	Marri	ages.	Birt	ths.	Dea	aths.	Num- ber of
Year.	Service's estimate of popula- tion.	Num- ber.	per 1,000.	Num- ber.	Per 1,000.	Num- ber.	Per 1,000.	deaths per 1% of births.
1904 1905 1906 1907 1908 1909 1910 1911 1912 1918	7,897,237 8,031,490 8,168,025 8,306,881 8,448,098 8,591,716 8,737,775 8,886,317 9,037,385	(b) (b) (b) (b) (b) (c) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	(b) (b) (b) (b) (b) () 8.647 9.594 9.344	216, 176 244, 586 215, 296 258, 010 278, 369 243, 726 290, 210 302, 855 290, 995 316, 056	27.839 30.971 26.806 31.588 33.511 28.850 33.778 34.660 32.746 34.972	146, 921 166, 555 143, 284 138, 464 190, 495 179, 355 191, 576 188, 412 185, 185 154, 086	18.920 21.090 17.840 16.952 22.932 21.230 22.298 21.563 20.839 17.050	67.964 68.097 66.552 53.666 68.433 73.589 66.013 62.212 63.639 48.753
1914 1915 1916 1917	9, 347, 267	4 2, 336 4 2, 176 67, 179 80, 500	8.751 8.152 7.067 8.327	347, 337 327, 206 336, 328 350, 002	37.791 35.006 35.380 36.203	163, 943 176, 313 190, 430 209, 444	17. 837 18. 863 20. 032 21. 664	47.200 53.884 56.620 59.841

[Source: Philippine Health Service.]

No data available for 1918.
 No data available.
 Marriages in the city of Manila for last helf of year only.
 Marriages for the city of Manila only.

TABLE No. 64.-Infant mortality from 1904 to 1917, showing the proportion of deaths of infants to total number of births.

Year.	Number of	Under 3	0 days.	30 days 1 y	to under ear.	1 year t 2 yea	o under ars.	2 year yea		Total under 3 to 4 ye	0 days
	births.	Num- ber.	Per cent.	Num- ber.	Per cent.	Num- ber.	Per cent.	Num- ber.	Per cent.	Num- ber.	Per cent.
1904 1905 1906 1907 1908 1909 1909 1910 1911 1912 1913 1914 1915 1916 1917	$\begin{array}{c} 216, 176\\ 244, 586\\ 215, 296\\ 258, 010\\ 278, 369\\ 243, 726\\ 290, 210\\ 302, 855\\ 290, 995\\ 316, 056\\ 347, 337\\ 327, 206\\ 336, 328\\ 350, 002 \end{array}$	14, 774 15, 785 14, 366 16, 344 18, 845 18, 374 20, 349 20, 599 18, 915 19, 722 22, 097 21, 403 23, 493 25, 276	$\begin{array}{c} 6.834\\ 6.454\\ 6.673\\ 6.325\\ 6.770\\ 7.539\\ 7.012\\ 6.802\\ 6.500\\ 6.240\\ 6.362\\ 6.541\\ 6.985\\ 7.222 \end{array}$	$\begin{array}{c} 33,818\\ 33,277\\ 26,679\\ 26,967\\ 34,123\\ 33,032\\ 37,220\\ 38,145\\ 35,051\\ 23,490\\ 32,738\\ 36,470\\ 33,804\\ 39,710\\ \end{array}$	$\begin{array}{c} 15.\ 644\\ 13.\ 605\\ 12.\ 392\\ 10.\ 452\\ 12.\ 258\\ 13.\ 553\\ 12.\ 825\\ 12.\ 595\\ 12.\ 045\\ 9.\ 014\\ 9.\ 425\\ 11.\ 146\\ 10.\ 051\\ 11.\ 346 \end{array}$	12, 939 15, 583 13, 809 13, 694 18, 145 19, 065 19, 492 19, 712 20, 237 13, 951 14, 305 19, 011 18, 050 20, 603	$\begin{array}{c} 5.985\\ 6.371\\ 6.414\\ 5.308\\ 6.518\\ 7.822\\ 6.509\\ 6.954\\ 4.414\\ 4.118\\ 5.810\\ 5.367\\ 5.887\end{array}$	$\begin{array}{c} 15,489\\ 18,216\\ 17,705\\ 15,091\\ 26,014\\ 23,693\\ 24,306\\ 24,306\\ 22,652\\ 15,274\\ 14,522\\ 15,274\\ 14,522\\ 17,063\\ 20,298\\ 22,416 \end{array}$	$\begin{array}{c} 7.\ 165\\ 7.\ 448\\ 8.\ 224\\ 5.\ 849\\ 9.\ 345\\ 9.\ 721\\ 8.\ 428\\ 8.\ 26\\ 7.\ 784\\ 4.\ 833\\ 4.\ 181\\ 5.\ 215\\ 6.\ 035\\ 6.\ 405\\ \end{array}$	77, 020 82, 861 72, 559 72, 096 97, 127 94, 164 101, 520 102, 762 96, 855 77, 437 83, 662 98, 947 95, 645 108, 005	35. 628 33. 878 33. 702 27. 943 34. 891 38. 635 34. 982 33. 284 24. 501 24. 087 28. 712 28. 438 30. 858

[Source: Philippine Health Service.]

NOTE .--- No data available for 1918.

TABLE 65.—Health statistics of the city of Manila. [Source: Philippine Health Service.]

				Dea	ths.	Rate p	er 1,000 ; tion.	popul a -	infant	lity of s under of age.
Year ending	Popula- tion.	Mar- ri a ges.	Births.	Under 5 years.	Total.	Mar- riages.	Births.	Deaths.	Per- cent- age on total births.	Per- cent- age on total deaths.
June 30—										
1908	223, 542	(a)	8,674	5,526	9,351		38.80	40.01	63.71	59.09
1909	223, 542	(a)	8,685	6, 120	10,287		38,85	46.01	70.47	59.49
1910	234, 409	(a)	9,914	5, 152	8,727		42.29	37.22	51.97	59.04
1911	234, 409	1,493	9, 180	5,120	8,279	6.37	39.16	35.31	55.77	61.84
1912	234, 409	2,140	9,340	5,572	9,285	9.13	39.84	39.61	59.66	60.01
December 31—										
1913 b	247, 756	1,051	4,721	1,947	3,678		37.82	29.46	41.24	52.94
1914	266, 943	2,336	9, 599	4, 332	7, 811	8.75	35.95	29.26	45.13	55.46
1915	266, 943	2, 176	8,850	4,725	8, 134	8.15	33.15	30.47	53.31	58.09
1916	266, 943	2,366	9,082	4,621	8, 489	8.86	34.02	31.15	50.88	54.44
1917	266, 943	2, 285	8, 597	3, 817	7,911	8.56	31.05	29. 6 4	48.25	44.39

^a No data available. ^b From July 1 to December 31 only.

TABLE No. 66.—Public education. All Schools except the University of the Philippines.

[Source: Bureau of Education.]

Total Ave	Avera				Teachers	Teachers and supervisors.	rvisors.		Average		A verage		Per cent
nonthly daily at-		verage vily at-	1	Americans.	cans.	Filipinos.	inos.		of pupils to	Total expenditures.	cost of education	Estimated	ment to school
		aolieni		Male.	Female.	Male.	Female.	Total.	each teacher.	•	per pupil	population	popula- tion.
243		64, 807		535	187	4.833	1.999	7.454	45.5	117.	10.53		34.09
405, 478 299, 625		299, 625		570	255	5, 634	2,315	8, 774	46.2	5, 747, 997. 32	10.08	1, 419, 700	40.10
165		114, 336		493	239	5, 832	2,443	9,007	50.2	326.	11.03		40.61
688		155, 722		440	243	5,940	2,463	9, 086	49.2	713.	10.56		41.46
075		129, 073		433	231	4,082	1,886	6, 632	60.4	636.	10.43		35.32
756		287, 995		446	212	4, 795	2,218	7, 671	42.9	322.	14.68		22.22
010		128, 552		417	195	6, 169	2, 681	9,642	54.0	178.	12.30		39.9
630		148, 014		388	162	6, 641	2,884	10,075	49.7	121.	12.97		39.2
272		171, 195		350	156	7, 191	3,266	10, 963	47.7	439.	11.64		39.65
625		514, 263		325	142	7, 986	3,840	12, 293	46.1	ŝ	13.56		41.22
475		521, 377		411		12, 875		13, 286	42.8				40.2

90

^a Includes Department of Mindanao and Sulu.

THE PHILIPPINE PUBLIC SCHOOL SYSTEM.

By Dr. W. W. MARQUARDT, Director of Education.

ORGANIZATION OF THE BUREAU OF EDUCATION

The school year in the Philippine Islands begins the second Monday in June and ends the first of April.

The following general statement covers the school years 1916– 1917 and 1917–1918:

During this period no important change took place in the organization of the public school system. The system is a highly centralized one, the Director having charge of all public schools in the Islands. In certain matters of policy his action is subject to the approval of the Secretary of Public Instruction. Besides the Director, there is an Assistant Director, a Second Assistant Director, a general office force, and a field force.

The work of the general office is in charge of the chiefs of the following divisions: Academic, accounting, industrial, property, and records.

In the field the division superintendent of schools occupies the most important position, and is directly responsible to the Director of Education. He supervises the schools of a province and under him are usually a supervisor of academic instruction, one or more supervisors of industrial instruction, a high school principal, and several supervising teachers.

The division is divided into supervising districts, each in charge of a supervising teacher who has control of primary and intermediate schools within his district. There are forty-eight divisions and more than three hundred supervising districts.

SCHOOLS AND PUPILS

The following data show the growth in the number of schools and pupils. It will be seen that there was no increase in the number of primary schools and a very slight increase in the number of secondary schools, whereas the number of intermediate schools grew rapidly because intermediate schools are supported almost entirely by tuition fees. If intermediate schools had depended upon governmental revenues, no increase could have been made.



	Primary.	Interme- diate.	Secondary.	Total.
Schools	4,276	423	48	4,747
	4,288	368	46	4,702
Annual enrolment	5 92, 563	64, 306	14, 529	671, 398
	607, 682	56, 884	11, 432	675, 998
Average monthly enrolment $ \begin{cases} 1917-18\\ 1916-17\\ 1916-17 \end{cases}$	499, 986	56, 592	12, 897	569, 4 75
	507, 226	50, 306	10, 093	567, 6 25
Average daily attendance 1917-18	455, 754	53, 232	12, 391	521, 377
1916-17	457, 383	47, 230	9, 650	514, 2 63
Percentage of attendance	91 per cent	94 per cent	96 per cent	92 per cent
	90 per cent	94 per cent	96 per cent	91 per cent

One encouraging feature of attendance figures is that the proportion of girls to boys in the public schools, especially in the higher grades, is increasing. Gradually the Oriental attitude toward education of women is being overcome and at present nearly 40 per cent of the total number of pupils in school are The greatest difficulty has been experienced keeping girls girls. in school after they finish the primay grades and even before they finish the primary grades. Statistics show, however, that the proportion of pupils who are girls in higher grades is gradually increasing. Comparison of figures of attendance of boys and girls in intermediate grades for the school years 1910-1911 and 1916-1917, shows that the increase in attendance of boys was 82 per cent while that of girls was 222 per cent. In the high schools the figure for boys was 250 per cent and for girls, These data indicate that an increasing number 267 per cent. of girls are no longer content with a primary education. With the introduction of the new secondary course in housekeeping and household arts it is believed that a proportionate increase in the number of girls in the high schools will take place.

Extension of school facilities among non-Christians has gone on rapidly. The Philippine Legislature was liberal in the appropriation of Insular funds for this purpose and the funds were distributed to help equalize educational opportunity. Consequently the number of schools for non-Christians and the attendance of non-Christians increased greatly. Special attention was given to fitting instruction to the varying needs of these people. Agricultural instruction was emphasized in practically all new schools opened for them.

PHYSICAL EQUIPMENT OF THE PUBLIC SCHOOLS

The past two years saw great improvement in the equipment of public schools, especially in regard to school furniture. There was also an increase in the number of school sites and school buildings.

The number of school sites for 1916 was 2,623 and for 1918, 2,824. Considerably more than one-half of these sites are first-class according to the classification below.

A. FIRST-CLASS SITES

- 1. A minimum area of one-half hectare for every 200 pupils of the annual enrolment or fraction thereof up to 2 hectares for 800 pupils or more is required.
- 2. The site must be well located and easily accessible.
- 3. The site must be well drained and sanitary.
- 4. The topography must be such that a satisfactory athletic field can be laid out.
- 5. The soil must be suitable for gardening.

B. SECOND-CLASS SITES

- 1. A minimum of one fourth hectare for every 200 pupils of the annual enrolment or fraction thereof up to 1 hectare for 800 pupils or more is required.
- 2. An unsanitary site or one entirely unfit for gardening and athletics should not be considered second class.

C. THIRD-CLASS SITES

1. All other sites come under this head.

Conditions brought about by the Great War have greatly increased the cost of construction of all types of buildings, especially of the standard reinforced concrete structure, the type of permanent building commonly erected for school purposes. Construction of this type of building has continued, however, because relief from high costs of materials can scarcely be expected for some years to come and the additional prosperity tends to lessen the burden of increased cost of construction. In 1917, 840 buildings, 448 of which were of reinforced concrete, were classed as permanent, while in 1916, only 757 were so classified.

The greatest advance in physical conditions during the last two years took place in the equipment of schools with suitable school desks and other furniture. At the close of the school year 1917–1918 there were comparatively few provinces in which any large proportion of pupils were without desks. In the campaign to provide each pupil with a desk of approved type the provincial trade schools and school shops rendered valuable service and in addition constructed teachers' tables, bookcases, and other school furniture.

TRAINING AND WELFARE OF TEACHERS

Facilities for training teachers both before and after they enter the teaching service were materially increased during the last two years. Attendance in the higher classes of the Philippine Normal School greatly increased and the total number of graduates from this institution for the last three years is greater than the total number of graduates for all preceding years.

The Philippine School of Arts and Trades continued to turn out teachers of woodworking and mechanical drawing, and the Central Luzon Agricultural School sent out a large number of teachers to agricultural, farm, and settlement farm schools. These teachers were scattered throughout the Archipelago, but a large number of them went to the Department of Mindanao and Sulu where many new settlement farm schools have been opened.

The settlement of five hundred teachers representing practically every province in the Philippine Islands in the Department of Mindanao and Sulu is a significant development in education and in the problem of final unification and nationalization of the people of these Islands.

At the beginning of the school year 1916–1917 a four-year normal course was organized in five large provincial high schools. At the same time the course of study in the Philippine Normal School was revised so only students who had completed the first year of the regular high school course were eligible for entrance. The Philippine Normal School now gives a special one-year course for supervising teachers and principals in addition to its courses in academic, industrial, domestic science, and physical education. In 1917 a two-year normal course was outlined and put into effect in two or three high schools where the complete secondary course was not offered.

The Legislature in 1917 appropriated \$150,000 for the establishment of two new normal schools, one in Northern Luzon and one in the Visayas. Large sites for these schools have been secured and construction is expected to begin soon.

The College of Education of the University of the Philippines now has a larger attendance and is supplying teachers for secondary work. It is evident, however, that this institution can do little towards supplying enough secondary teachers when the average attendance of secondary students is more than 12,000 and when the yearly increase is so great that the attendance almost doubles every three years. At present, the problem of securing suitable secondary teachers is acute. Due to the war it is impossible and undesirable to get young men from the United States; and, while a certain number of women teachers have been secured, not enough are now (August, 1918), available to properly staff our secondary schools.

A rather complete system for the training of teachers in service has been developed because a large proportion of teachers have had little or no actual training in normals or other schools for the preparation of teachers. During each of the school years 1916–1917 and 1917–1918 about 800 selected teachers from all divisions attended for a five-weeks period the teachers' vacation assembly in Manila, where primary and intermediate methods, and the latest developments in industrial work were emphasized. Upon returning to their divisions the teachers who attended the assembly in Manila became instructors for four weeks in division normal institutes for division teachers. The assembly in Manila and the division institutes which followed were of utmost importance in the improvement of the character of academic and industrial instruction. A professional reading course for all intermediate teachers has been outlined for the present school year.

Other agencies used for improving the quality of teachers are: Visiting days, which have become a feature of school work in practically all divisions, and teachers' meetings of various kinds.

The teachers' vacation assembly, held in Baguio during April and May of each year and attended by American and Filipino teachers and supervisory officers, is also an important factor in improving school work. Conferences lasting a week each were held (1) for teachers and principals of intermediate and high schools, (2) for supervising teachers, and (3) for industrial teachers. Following these conferences was the convention of division superintendents.

Classes for Filipino supervising teachers were also held in Baguio. In 1918 for the first time model classes were conducted in connection with these classes. Model classes henceforth will be the most important feature of the teachers' vacation assembly in Manila and of the division institutes.

TEACHERS AND THEIR WORK

The number of teachers on duty in March of each of the last three years is shown below.

		March.	
Teachers.	1916	1917	1918
Americans Insular Municipal Apprentice	506 1, 279 9, 138 40	477 1, 391 10, 336 99	411 1, 389 11, 484 2
Total	10, 963	12, 303	13, 286

The number of American teachers has decreased nearly 100, the number of Insular teachers has increased 110, and the number of municipal teachers has increased at the rate of more than 1,000 a year.



The following table shows the number of teachers assigned to various duties in March of each of the last three years:

Teachers.		March.	
Teachers.	1916	,1917	1918
Primary Intermediate	8, 495 1, 104	9, 585 1, 339	10, 437 1, 886
Secondary	231 800	268 891	1, 000 343 213
General supervision	803	320	340

COURSES OF STUDY

An important change in the courses of study was the introduction of new courses in secondary schools. The primary course of study has remained practically unchanged. Few changes were made in intermediate courses where, however, some interesting developments as regards distribution of pupils among the courses took place. The enrolment in intermediate grades by courses for March of the last three years is shown below.

		March.	
Courses.	1916	1917	1918
General Teaching Trades Farming Housekeeping and Household Arts	23, 129 7, 412 3, 582 1, 380 5, 917	30, 399 3, 436 3, 510 1, 662 7, 585	35, 999 1, 861 3, 000 1, 721 9, 449

These figures show that the intermediate teaching course is dead. Practically no pupils were enrolled in this course at the beginning of the school year 1918–19. Teachers of higher attainments than the completion of an intermediate course are now available in most provinces. The table shows a large increase in the number of girls enrolling in housekeeping and household arts and a small increase in enrolment of boys in the farming course. A greater increase is expected in the farming course.

In 1918 new secondary courses were outlined. The general course and the four-year normal course were revised. Courses in housekeeping and household arts, in commerce, and in agriculture were outlined for the first time. It is not expected that these new courses will be used in all provincial high schools, but they will be given in several of the larger schools where the number of pupils and the equipment make a diversification in courses feasible.

In addition to the courses offered in provincial high schools

there are six Insular schools-the Philippine Normal School, the Philippine School of Arts and Trades, the Philippine School of Commerce, the Philippine Nautical School, the School for the Deaf and the Blind, and the Central Luzon Agricultural Schoolwhich offer special courses. The work of the Philippine Normal School has already been mentioned, as has also the fact that the Philippine School of Arts and Trades and the Central Luzon Agricultural School give courses of training for industrial and agricultural teachers. The Philippine School of Arts and Trades also gives courses in woodworking, ironworking, electrical wiring, plumbing, automobile operation, preparatory engineering, The Philippine School of Commerce gives and surveying. courses in bookkeeping, stenography, typewriting, and com-The Philippine Nautical School gives a two-year course merce. of training to fit young men to become officers on interisland vessels and transpacific steamers. The Central Luzon Agricultural School offers in addition to its teaching course a course in farm management and one in the operation of steam and gas engines.

PHYSICAL EDUCATION AND MEDICAL AND DENTAL INSPECTION

The war has directed attention to the necessity of conserving human life and of increasing efficiency. For years practically all students in Philippine public schools have engaged in some form of physical exercise, the effects of which upon the physical development of the Filipino people are distinctly apparent. During 1917–1918 military training was prescribed for all boys in high schools and physical education was given a more definite place in all secondary courses of study. A complete course in physical education for primary, intermediate, and secondary grades is being prepared. When this is published, instruction will be more systematic and uniform.

Medical and dental inspection of pupils is in the hands of the Philippine Health Service which has done valuable work along this line. It did not give to these matters all the attention needed, however, because of lack of sufficient personnel. Medical inspection has been quite general, but dental inspection has been limited to a few places. During the last year a letter was addressed to division superintendents requesting them to take up with provincial boards the matter of providing more adequate medical and dental inspection in the public schools and of securing additional nurses for public school service. As a result increased attention has been given these matters, but conditions are yet far from satisfactory and will remain so until there are several provincial nurses in each division; at least one municipal

160787----7

nurse in each large municipalities; and an adequate corps of physicians to examine pupils for defects and diseases.

WAR ACTIVITIES OF THE BUREAU OF EDUCATION

The public schools entered the food production campaign with enthusiasm and as a consequence the cultivated area of school and home gardens and the production of food doubled. Thus the Philippine Islands helped to conserve food for the Allied forces and, in addition, many Filipinos enjoyed a more varied diet.

Red Cross work was done in the schools in 1917, but this work is now being undertaken on a larger scale. In the public schools bandages for wounded soldiers and clothing for French and Belgian refugee children are being made in large numbers. A Red Cross membership campaign just ended has resulted in the enrollment of more than 12,000 teachers as senior members of the Red Cross Society and more than 200,000 pupils as junior members. During the teachers' vacation assembly in Baguio a Red Cross drive on May 7, 1918, resulted in the raising of \$2,500.

American and Filipino teachers and other employees have subscribed liberally for Liberty Loan Bonds. Employees of the Bureau of Education purchased more than \$60,000 worth of Liberty Loan Bonds of the third issue in addition to their subscriptions to the first and second issues.

ACADEMIC INSTRUCTION

A great improvement in academic instruction took place during 1916–1917 and 1917–1918. This was largely a result of better facilities for training teachers, and closer and more effective supervision. The appointment of a larger number of academic supervisors helped to make supervision much more satisfactory. However, much variation in efficiency of instruction still exists.

In academic instruction increased efficiency—the main factor in the promotion of pupils—was shown by the average increase of 6 per cent in promotions in all grades for 1916–17 over 1915– 16. As this increase was not due to any lowering of standards, it was significant.

INDUSTRIAL INSTRUCTION

Industrial instruction occupies an important place in the courses of study. About 17 per cent of the total time in primary grades and 18 per cent of the total time in the general intermediate course is devoted to this form of instruction. In special intermediate courses and in special types of primary schools about half of the time is devoted to industrial work. The following data give an idea of the value of the commercial output of the public schools for the school year 1917–18: Embroideries, \$12,500; lace, \$9,000; crochet, \$4,500; sewing, \$28,000; cooking, \$3,500; basketry, \$33,000; hats, \$1,500; products of loom weaving, \$3,500; bamboo-rattan furniture, \$3,000. A large number of other articles were made in small quantities.

The value of the gross output of trade schools during the last three years follows: For 1915, \$61,418.81; for 1916, \$79,132.04; for 1917, \$106,485.12. These figures include cost of material and therefore do not give a definite idea of the total value of work done by pupils.

Due to war conditions the total value of embroideries exported from the Philippines increased from \$162,456 in 1914 to \$1,561,214.50 for the fiscal year, July 1st, 1916, to June 30, 1917. A part of this increase was undoubtedly made possible by instruction given in the public schools.

War conditions have not been favorable for the production of all commercial articles in the public schools, however. The great increase in transpacific freight rates has made it unprofitable to export articles the value of which is not relatively great as compared with weight and bulk. Excessive cost of transportation has thus made it necessary to abandon the making of larger and more bulky articles.

The Bureau of Education through traveling industrial teachers has fostered household centers, the member of which engaged in the making of embroidery, lace, and other articles of handicraft. The Bureau of Education gave up the supervision of these centers as soon as they were developed to a point where they could deal directly with business houses.

During the last year the value of school production of articles of handicraft was \$86,270.50 and the value of production of household centers was \$11,782. Articles to the value of \$92,200 were sold through the General Sales Department of the Bureau of Education, and local sales amounted to \$5,852.50.

AGRICULTURAL INSTRUCTION

Facilities for agricultural instruction were developed and extended. The number of agricultural, farm, and settlement farm schools increased from 79 for the year 1915–16 to 138 for 1917–18. Of the increase, 9 were agricultural schools; 12, farm schools; and 117, settlement farm schools. During the same period enrolment in these schools nearly doubled; the cultivated area doubled; and the total value of production much more than doubled, having been more than \$45,000 for 1917–18.

Agricultural clubs for boys and girls were organized in

Return to TURE THIGE INTERNATIONAL RELATIONS 1916-17. Club projects now include gardening, cooking, chicken and hog raising, and fruit growing. At the end of the year 1916-17 club members owned 31,538 chickens and 2,247 hogs. During 1917-18 the number of clubs increased to 1,136 and at the end of the year the number of chickens and hogs owned was 58,458 and 2,744 respectively.

An organization pamphlet and 120 lesson leaflets are now being distributed to members and these help to direct the work and make it more effective. The work of these clubs has an important bearing upon the educational and economic development of the country. This is an agricultural country and everything that tends to increase agricultural production brings nearer the time when all, instead of one-half, of Filipino children may enjoy educational privileges.

School and home gardens did much to provide a varied diet and to improve living conditions. The following table shows the number of school and home gardens for the last three school years:

Gardens.	1915-16	1916-17	1917-18
School gardens	3, 545	3, 960	4, 023
Home gardens	48, 432	54, 655	103, 668

Garden days, 1,272 of which were held in 1917–18, aroused interest in home gardening. At these celebrations pupils and farmers not only exhibited garden products, but exhibited domestic animals as well. The Bureaus of Agriculture, Forestry, Health, and Constabulary coöperated with the Bureau of Education in furnishing exhibits for some of the garden days. During each of the last three years approximately 100,000 shade and fruit trees were distributed to the public through public school nurseries.

THE INFLUENCE OF THE PHILIPPINE PUBLIC SCHOOL SYSTEM IN THE FAR EAST

During the years 1916–17 and 1917–18 the public schools were visited by a large number of delegations from China who studied the school system thoroughly. A commission from Formosa and a number of visitors from Japan showed much interest in Philippine public schools. Constant requests were received for publications from such countries as China, Siam, India, Egypt, Burma, Hawaii, Japan, Chosen, French Indo-China, Ceylon, Cuba, Porto Rico, Hayti, Australia, Straits Settlements, Federated Malay States, Papua, Java, Sumatra, Formosa, Newfoundland, Chile, New Zealand, and Fiji. During this period Filipino teachers started rendering service in foreign countries. Two industrial teachers were sent to Guam to undertake the development of industrial instruction there along the same lines followed in the Philippines. A Filipino teacher of industrial work, who was furnished the Government of the Federated Malay States, made good in the Malay Training College for Teachers at Malacca. Two Filipino teachers were employed as instructors in English in the mission schools of Penang.

102

TABLE No. 67.—Public expenditures for education from 1908–1917.

[Source: Annual Reports	of the	Director	of	Education.	
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		State exp	enditures.			Per capita
Fiscal year ending—	Insular.	Provincial.	Municipal.	Total.	Voluntary contri- butions. ^a	ex- pend- iture on edu- cation.
June 30— 1908	4,056,588.93		1,672,148.50 2,133,577.91	6, 475, 326. 81		0.8409 0.8238

^a Contribution in the form of land, buildings, labor, and money.
 ^b Excluding expenditures from Insular funds for school-house construction and for support of government students in Insular Schools.
 ^c Including expenditures in the Department of Mindanao and Sulu.

TABLE No. 68.—Roads in existence from 1908 to 1918.

[Source: Bureau of Public Works.]

Year.	First- class road.	Second- class road.	Third- class road.	Total.	Expenditure for repair of old roads.		Total expenditure for roads.
1908 1909 1910 1911 1912 1913 1914 1915 1914 1915 1916 1917 1918 c	<i>Km.</i> 397.0 553.5 1230.2 1587.6 1839.6 2097.3 2233.8 2564.0 3067.7 3439.6 3738.7 3936.0	<i>Km.</i> (a) (a) 1031.3 1068.9 2034.6 2024.6 2024.6 2024.3 2082.2 2045.8 2056.6 2019.9	Km. (a) (3337.6 2956.8 3216.8 3118.1 3138.7 2875.7 3051.7 3440.7 3348.4 3294.8	<i>Km.</i> 397. 0 553. 5 5599. 1 5613. 3 7216. 3 7250. 0 7397. 1 7464. 0 8201. 6 8926. 1 9188. 9 9250. 7	1, 415, 150. 53 1, 579, 104. 82	(a) (a) 4, 551, 733, 03 4, 546, 708, 14 5, 370, 491, 57 2, 840, 453, 83 5, 652, 436, 94 5, 872, 056, 81 5, 920, 606, 95 6, 148, 213, 45 3, 969, 000, 00	(a) (a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c

^a Data not available. ^b July 1 to December 31, 1913. ^c January 1 to June 30 only.

103

TABLE No. 69.—Artesian wells drilled from 1908 to 1917.

[Source: Bureau of Public Works.]

Year.	Number of success- ful wells drilled (deep wells).	Average depth of each well in meters.	Average flow per minute of each well in liters.	Total ex- penditures.
1908 1909 1910 1911 1912 1913 1913 1913 1913 1914 1915 1914 1915 1914 1915 1914 1915	92	$\begin{array}{c} 244.51\\ 148.03\\ 168.35\\ 184.56\\ 147.54\\ 145.72\\ 136.75\\ 115.52\\ 91.40\end{array}$	92.26 401.44 210.95 294.57 193.17 178.57 144.12 152.97 133.70	(a) P197 , 820. 35 366, 916. 64 377, 903. 99 420, 841. 12 174, 656. 87 284, 579. 48 269. 593. 49
9910	133 122 108 711	94.39 85.94 142.06	125.77 102.13	234, 705, 44 219, 295, 80 2, 546, 313, 18

^a Data not available.

NOTE.-No report available for the period from January 1, 1918, to June 30, 1918.

TABLE No. 70.—Postal and telegraph service.

[Source: Bureau of Posts.]

	Numb	er of posta	ul savings l	banks.	N	N		Number
Year.	Class 1.	Class 2.	Class 3.	Total.	Number of money order offices.	Number of telegraph offices.	Number of post offices.	of munic ipalities with free delivery service.
1906					62	161	475	
1907	9	86	140	235	02	101	505	* 1
1908	12	106	127	245			540	31
1909	20	99	132	251	79	162	553	35
1910	25	232	36	293	118	211	556	115
1910	26	270	118	414	209	238	572	296
1912	39	267	131	437	253	270	587	398
1913	39	269	129	437	285	293	661	449
1914	271	168	100	439	302	303	685	447
1915	304	169		473	311	311	693	451
1916	310	74		384	315	314	802	457
1917	312	76		388	318	315	818	458
					I	1	1	

* In Manila only.

TABLE NO. 71.—Registered Mail Handled.

[Source: Bureau of Posts.]

Year.	Pieces of mail reg- istered at Phil- ippine offices.	Pieces received from United States.	Pieces received from foreign coun- tries.	Pieces sent to United States.	Pieces sent to foreign coun- tries.	Pieces sent from one Phil- ippine office to another Philip- pine office.	Pieces handled by Manila post office.
1906 1907 1908 1909 1910 1911 1912 1913 1914 1915 1916 1917	280,044 346,333 379,062 434,989 510,085 535,137 617,876 644,494 641 823	34, 443 38, 585 46, 006 46, 614 48, 283 57, 729 67, 151 51, 031 27, 738 26, 295 29, 440 32, 657	$\begin{array}{c} 52,708\\ 54,536\\ 62,015\\ 61,507\\ 63,088\\ 64,071\\ 74,124\\ 72,425\\ 70,010\\ 58,192\\ 58,265\\ 56,458\end{array}$	39,692 46,328 47,149 55,653 61,223 66,671 73,728 72,722 72,481 71,663 81,822 93,968	$\begin{array}{c} 37,687\\ 36,588\\ 43,935\\ 45,579\\ 47,124\\ 49,080\\ 50,284\\ 47,143\\ 52,972\\ 48,126\\ 49,484\\ 46,598 \end{array}$	$\begin{array}{c} 168, 452\\ 197, 128\\ 255, 249\\ 277, 830\\ 326, 642\\ 394, 334\\ 411, 125\\ 498, 011\\ 519, 041\\ 522, 034\\ 588, 242\\ 673, 563\\ \end{array}$	297, 750 331; 365 373, 952 398, 578 434, 506 577, 350 633, 910 650, 805 647, 959 611, 735 662, 903 (*)

^a Data not available.

Peturn to

University of California

TABLE No. 72.-Money Order Service.

[Source: Bureau of Posts.]

Amount. Peeos Peeos P3, 687, 126, 81 P16, 401 P16, 401 P16, 401
P 3, 687, 126. 81 P 16, 401. 3. 229, 446. 09 19. 658.
751 3, 645, 123, 13 21, 629, 20 (*) 357 9, 017, 355, 96 45, 155, 156 46, 157, 156 46, 157, 156 357 9, 781, 670, 48 67, 887, 86 (*) 46, 56 357 9, 781, 670, 48 67, 887, 86 (*) 357 9, 781, 670, 48 67, 887, 86 (*) 354 9, 111, 184, 401, 70 50, 712, 48 68, 197 355 111, 184, 401, 70 50, 712, 48 68, 197 350 11, 184, 401, 70 50, 712, 48 68, 197 350 11, 184, 401, 70 50, 712, 48 68, 197 350 11, 184, 401, 70 50, 712, 48 68, 197 350 11, 184, 401, 70 50, 712, 48 68, 197 350 11, 184, 601, 702 70, 685, 146 68, 116 350 16, 900, 24 68, 196 68, 156 351 156, 900, 24 68, 186 68, 186 351 134, 68, 106 86, 136 88, 186 351 134, 68, 106 68, 186 86, 18

a No data available.

105

TABLE No. 73.-Meteorological data for Manila Central Observatory. .

Year.	Pres- sure (mean)	Air temperature.			Rela-		Evap- oration				.
		Mean.	Mean.		tive humid-	Vapor pres-	free expo-	Wind velocity	Cloud amount	Sunshine (total)	Rain- fall (total)
			Maxi- mum.	Mini- mum.	ity (mean)	sure (mean)	sure (mean)	(mean)	(mean)	(10181)	(10(81)
	mm.	°C.	<i>◦C</i> .	° <i>C</i> .	Per. ct.	mm.	mm.	Km.	0-10.	h. m.	mm.
1900	59.22	27.3	31.6	23.0	79.6	21.2	(a)	7,414.4	6.0		2, 125. 7
1901	59.13	26.9	31.2	22.3	79.4	20.8	(a)	7, 186.6	6.4	2,309 45	1,851.7
1902	59.32	26.7	31.0	21.9	78.8	20.4	(a)	7,250.5	6.1	2,291 30	1,716.7
1903	59.18	27.2	31.8	22.0	74.8	19.9	(a)	6,728.2	6.5	2,244 50	1,030.4
1904	58.69	26.1	31.0	21.8	79.5	19.9	(a)	6,244.3	7.2		2, 136.8
1905	59.46	26.4	31.7 31.8	21.4	79.6	20.1 20.8	(a) (a)	6, 399. 9	6.3 67	2,410 35 2,379 20	1,825.0 2,270.5
1906	58.72 58.71	26.9 26.4	31.8	21.8 21.9	79.9 79.2	20.8	(a)	6,483.0 6,479.6	6.8		1,840.8
1907	58.67	26.4	31.4	21.9	80.8	20.0	(a)	6,550.4	6.9	2,061 55	2,481.0
1908	58.54	26.2	31.4	22.3	79.5	20.1	(a)	6, 188. 4	6.8	b1, 793 05	1,836.7
1909	58.58	26.2	31.7	22.4	80.8	20.2	99.8	5, 539, 0	7.1	1,971 00	1,921.7
1910	58.93	26.1	31.9	21.9	79.5	19.8	107.2	6, 695. 0	6.6	2, 138 15	1, 717.6
1912	59.20	26.6	32.5	22.4	77.4	19.7	128.6	6, 502.2	6.5	2,076 00	1,934.1
1912	59.20	26.2	31.9	22.3	80.0	20.0	106.2	5, 955. 6	6.8	1,943 00	1,921.8
1914	59.67	26.3	37.4	22.2	78.3	19.7	126.0	6,299.7	5.9	2,288 01	2, 435, 1
1915	58.92	26, 9	32.6	22.9	79.0	20.6	126.0	5,836.4	6.3	2,123 15	1, 914. 9
1916	58.14	26,2	31.5	22.6	81.6	20.5	99.5	5,431.5	6.9	1,865 25	1,642.4
1917	58.46	26.3	36.0	22.6	82.2	20.6	95.5	5,289.2	7.3	1,861 40	2, 329. 4
1918 °	59.38	25.7	31.5	21.1	75.8	18.5	134.7	5,602.7	6.2	1,043 50	351.0
• No data available. ^b For eleven months only. ^c January 1 to June 30 only.											

[Source: Weather Bureau.]

THE CLIMATE OF THE PHILIPPINES

By Rev. José Algué, S. J., Director of Weather Bureau.

As the climate of a country is the complex of the average of the atmospheric conditions which have an influence upon organic life an adequate study of the different elements which go to make up these atmospheric conditions in the Philippines would give a true idea of its climate.

The more important elements which form the climate may be reduced to three, viz, heat or temperature; water vapor in its different forms, such as humidity, evaporation, clouds, and precipitation; and finally, the movement or circulation of the atmosphere, which includes the direction and force of the wind, cyclonic and noncyclonic storms, together with local and general storms. Atmospheric pressure is not, properly speaking, a climatological element, but, as it serves as an indication of the general variations of the climatological elements, strictly so called, a few words will be said occasionally on it, in so far as it has any relation to the above-mentioned elements.

The Philippine Archipelago is situated in the Torrid zone or within the Tropics. The climate is, therefore, generally speaking, tropical, although there are points in the islands where it can not strictly be so termed. The exceptions are due to the fact that there are so many causes which influence the climatological conditions of the Archipelago, so that the different islands, and even different parts of the same island, have meteorological values so unlike that they possess climates entirely distinct. Not only does the latitude affect the climate, as the name "climate" itself seems to indicate,¹ but also the altitude, the relative distribution of land and sea, the size and configuration of the island, the proximity of mountain ranges, the composition of the soil, the vegetation, the ocean currents-especially those in the straits and the channels-in fine, all those causes which can in any way modify the climatological elements already mentioned.

Before speaking of these elements we propose to say a few words concerning the effects of each of the above causes in the different regions of the Archipelago.

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¹ In its original and stricter etymological meaning the word climate (Greek $\kappa\lambda l\mu\alpha$, slope or inclination) was applied to one of a series of regions or zones of the earth running parallel to the equator, from which the earth's surface was supposed to slope to the poles, hence the Latin rendering of $\kappa\lambda l\mu\alpha$, inclinatio coeli, and $\lambda l\mu\alpha$, $\lambda l\mu\alpha$,

Latitude.—Of all the causes mentioned above which have influence on the climatological elements perhaps the relative latitude has the least influence of all. For example, Zamboanga, in Mindanao, and Aparri, in Luzon, are separated from one another by more than eleven degrees of latitude, but although Zamboanga is much nearer to the equator than Aparri, it enjoys a climate quite as mild as that of Aparri, which is at the extreme north of Luzon. The same may be said of Jolo, Davao, Dapitan, and other towns of Mindanao in comparison with those of the north of Luzon.

We can illustrate these facts by stating that the highest recorded temperature for seven years in Jolo, latitude 6° 3' N is 36.5° °C. and for 8 years in Aparri, latitude 18° 20' N 27.8° °C. Besides the yearly mean maximum temperature for the same period is 30.6° °C. in Jolo and 30.2° °C. in Aparri, and the average mean temperature of the hottest month is 26.8° °C. in Jolo and 28° °C. in Aparri, and finally the yearly mean minimum temperature is 22.6° °C. for Aparri and 22.8° °C. for Jolo.

Altitude.—Altitude has a great influence on temperature, humidity, and direction of the winds in the islands. This may be observed by comparing the climate of the relatively high Baguio with that of the plain of Pampanga. Many other examples of the influence which altitude has on the climate might be cited, such as the towns surrounding Lake Lanao, the altitude of which is 2,200 feet above the level of the sea, compared with the climate of the lowlands around Iligan Bay; the climate of the highlands of Abra, Lepanto, and Bontoc, with that of the Cagayan valley; the climate of the rising land all along the ridge which runs from the river Pansipit to its western slope, with the plain of Balayan, although this rising ground is only 300 feet above the level of the sea.

Distribution of land and sea.-The Archipelago is situated between the Pacific ocean and the China sea, at a distance of some 500 miles from the Asiatic continent and about 1,000 miles from Australia. On one side of the Archipelago is the lower limit of an immense area of high pressure which is caused by the cooling off of the air in the interior of the continent, and on the other is the western limit of the enormous area of high pressure situated in the Pacific. The first area of high pressure ^{slowly} changes its position during the course of the year from east to west and from west to east between the parallels 30° and 40° north. During the winter months the center of the Siberian high pressure area lends force to the polar wind currents, as well as to the northeast monsoon. The permanent

> Return to SCREAU OF INTERNATIONAL RELATIONS University of California

center of the Pacific high pressure area, on the other land, has some influence on the predominance of the east and the southeast winds, especially at the period when the monsoon dies away. It is also very probable that the distribution of land and sea in this part of the Far East is the principal cause of the nonexistence of the southwest monsoon in the Archipelago, although it blows in the Indian ocean. We have had occasion to speak of this fact in other publications, where we have proved the nonexistence of this monsoon in the Philippines.

Size, configuration, and orientation of the islands.-The climatological conditions of the eastern coasts of the larger islands of the Archipelago, such as Luzon, Mindanao, Panay, Mindoro, Samar, and Leyte, are quite different from those of the interior and western coast of these islands. This is especially the case if the islands extend from east to west, as with Mindanao, Panay, and Mindoro. If, on the other hand, the islands are not very broad and are prolonged in the direction north-south, as are the Islands Cebu and Paragua, then the difference is not so great, while if the islands are narrow, like Tablas, Dinagat, Ticao, and Burias, there is scarcely any difference between the climate of the interior and that of the eastern and western coasts, no matter what be the general direction of their prolongation. The climate of the smaller islands does not suffer any modification on account of the land, but is generally that of the region they occupy; thus, for example, Capul, Viri, Laguan, and Siargao have the general climatological conditions of the east of the Archipelago, and the Islands of Corregidor, Lubang, and Calamian, those of the western coast of the Archipelago.

The proximity of mountain ranges.—Mountain ranges influence the climate of a country by protecting the lower plains from the strong winds. Thus the Sungay range protects the fertile lands of Cavite from the destructive effects of the south and southwest winds. Manila is shielded from the strong southeast winds by the Tayabas hills, and the Mountains Maquiling and Banajao. Again it is owing to the Zambales hills that the climate of the eastern slope and the Plains of Pangasinan, Tarlac, and Pampanga is so different from that of the Province of Zambales.

The well-known Province of Benguet owes its salubrious climate and its abundant rainfall in July and August in great part to the fact that there is no high land on the east and south. The prevailing winds during the months of March, April, May, and June, on the table-land of Baguio, are from the west and the west-southwest. These winds bring with them the aqueous vapor with which they are saturated, and thus cause a moderate rainfall during May and June, which diminishes the temperature much more than could be expected from the height alone. Thus the same cause which helps to cool the lowlying plains in the western part of the Archipelago during the months of June, July, and August, also contributes to the tempering of the heat in Baguio during the months of March, April, May, and June.¹

Composition of the soil.—The geological constitution of the soil is one of the circumstances which has the least influence on the climate, still it has some influence, for, as the radiation and even the colorific capacity is quite distinct in different soils, it follows that these two factors modify to some degree the general, conditions of the climate. Thus, all other conditions being the same, the temperature of sandy soil will be different from that of clayey soil, which in turn will be distinct from the temperature of the rocky or of soft soil. For this reason there is a considerable contrast between the temperature of Cavite and that of Marilao in the Bulacan Plain, and between that of Manila and of Biñang in the Province of La Laguna, both of which places are situated at but a small height above the level of the sea.

Vegetation.—In saying that the vegetation of a country has some influence on the climate, we mean it to be taken in the sense of amount of vegetation or the amount of land covered by vegetation. Vegetation in general has a very direct influence on the condensation of aqueous vapor as well as on the radiation of heat, and consequently can modify in a very notable degree the climatological conditions. The two principal elements which it modifies are the rainfall and the temperature; thus, for example, these two elements have somewhat different values in Atimonan, Daet, and Albay, owing doubtless to the conditions of vegetation in these regions.

The general ocean currents.—If we look at a map of the isotherms of the world it will be seen that in many places they are irregular, and depart greatly from the east and west course which we would naturally expect them to follow. The reason for this variation is to be found in the course of the great ocean currents which cause the interchange of ocean waters between the equator and the poles, and thus cool or warm the surrounding land. There are two general currents which affect the zone of the Archipelago. The one which extends from latitude 5° N. to 10° N. has great influence on the temperature of the Archipelago of Jolo and the whole of the south coast of

¹See "Climate of Baguio, Benguet," pp. 64-71.

Mindanao. The other current, which in some respects is like the Gulf Stream, but much greater, comes from the east in the Pacific and extends from close to latitude 10° N. as far as the northern extremity of the Tropics, that is, as far as 23° N. This immense current inclines to the north on reaching the Archipelago and then curves to the south of Japan and flows on from there to the east. As this current brings cool water, it tempers the heat of the eastern coasts, especially during the hot months, when the influence of the north monsoon has become a minimum—that is to say, during the month of March, April, and May, during which months it is very probable that this current also contributes to the prevalence of the winds from the second quadrant.

Special currents in the straits and channels.—Beside the general ocean currents, of which we have spoken above, there are smaller currents in the straits, and channels between islands, which are in part caused by the general currents. These small currents have much influence on the climate, as is shown by the climate of Zamboanga and the Island of Basilan, which is modified by the currents of the Basilan Channel. Again, the climate of Aparri and the Batanes are influenced by the currents in the Balintang and the Bashi Channels, and the peninsula of Sorsogon and the north coast of Samar by the currents in the San Bernardino Strait.

Accordingly, as these causes, either individually or in various combinations, affect the different regions of the Archipelago, the climates of these regions have different characteristics. These it is the aim of this paper to group and classify.

Leaving aside the minor modifications of climate and taken only into consideration wind currents and the precipitation we may consider three kinds of climate prevailing over the whole Filipino group of islands.

In fact the difference of climatic conditions of the different parts of the Archipelago depends mostly on the local currents as a combined resultant of the general winds, position and size of the islands, and the storm center.

Generally speaking, we may assume that the resultant direction of these current in the Philippines is from north to east during the period October to January, from east to southeast from February to April, and for the rest of the year southerly directions ranging from southeast to southwest predominate, due chiefly to storm centers. We may add that such currents are the principal cause of the distribution of rain, which constitutes a very important factor of climate. We may further add that as the result of long experience it may be stated that, in the Philippines, currents from northwest to west and southwest are generally either cyclonic or of cyclonic origin.² Hence, for the purpose of classification we shall divide, the whole group of islands into regions directly influenced by northeasterly and easterly currents and regions not directly influenced by such currents. The climatic conditions observed in the first regions will constitute the first type of climate in the Philippines. The climatic conditions in the other regions will make the second type of climate in the Philippines. Besides, there are regions in the Philippines which are only in part affected by northeasterly and easterly currents and the climatic conditions of such regions may form another type of climate which we shall call intermediate climate.

There are, consequently, in the Philippines three types of climatic conditions which we may formulate as follows:

1. Climatic conditions over the small islands or portions of large islands at or near the sea level, below 80 meters of altitude, freely exposed to air currents from north to east or southeast and not distant from the Pacific Ocean.

2. Climatic conditions over the small islands or portions of large islands at or near the sea level not freely exposed to currents from north to east or southeast and distant from the Pacific Ocean.

3. Climatic conditions over the small islands or over portions of large islands only partly exposed to northeasterly and easterly currents, or, if exposed to such currents, distant from the Pacific Ocean.

Mountain climates may form another type of climate, but they can be reduced to some of the above types as far as some meteorological or climatological elements are concerned, except temperature which decreases with the altitude, and rain which increases with height, generally. Thus the climate of Baguio, Benguet, may be classified as of the second type, with lower temperature; the climate of Bontoc belongs also to the second type; the climate of the high plateaus in the Tayabas Province belong either to the first or to the intermediate type, with milder temperature; and, finally, the high Plateaus in Mindanao, in the Misamis and Moro Provinces belong to the third or intermediate type, with lower temperature.

The distribution of rainfall being in the tropics almost the controller of climate, I give first the average monthly precipitation in millimeters for each type of climate.

Return to MILELAU OF INTERNATIONAL RELATIONS Liniversity of California

²See "The cyclones of the Far East," p. 124 et seq.

	January.	Feb- rµary.	March.	April.	May.	June.	July.	August.	Sep- tember.	October.	No- vember.	De- cember.	Total
First type Second type Third type	<i>mm.</i> 246.3 13.1 80.7	mm. 228.5 8.8 73.0	<i>mm.</i> 157.6 12.8 53.4	<i>mm.</i> 139.4 40.2 72.4	mm. 150.8 191.9 133.6	<i>mm.</i> 166. 0 334. 4 179. 4	mm. 249.3 567.3 243.7	<i>mm.</i> 167.0 495.0 192.8	<i>mm.</i> 235.6 455.3 227.8	mm. 286.8 206.1 242.4	mm. 350.9 80.3 203.2	mm. 387.9 48.2 151.7	mm. 2, 766. 1 2, 453. 4 1, 856

FIRST TYPE

The features of the climatic conditions of the first type are:

I. There is practically no dry season in this type of climate. The greatest amount of rain falls generally in December and January during the prevalence of northeasterly winds. In regions south of parallel 10° N., where the winds from west to south can not attain or do not attain usually great force or frequency, the rain, during the so-called typhoon season, is less abundant than during the prevalence of northeasterly or easterly winds in December, January, February, and March. The result is that there is generally an average rainfall for the year less in regions south of parallel 10° N.

II. The percentage of the rainfall from October to February is nearly 50 per cent of the annual rainfall, and the percentage of rainfall from June to October never reaches 50 per cent of the rainfall for the whole year, especially in regions south of parallel 10° N.

III. Cloudiness follows the distribution of rain. December and January, cloudy and rainy; the clearest months being April and May.

IV. The relative humidity has small range during the year, the percentage increases gradually from September to December. Mean percentage for the whole year less than 85 per cent.

V. The temperature of the Archipelago may be classified as of three kinds—high, intermediate, and mild. Regions of high temperature have a mean annual temperature greater than 27; those of intermediate temperature have an annual mean of less than 27; and in regions of mild temperature the average yearly mean is less than 26. Now, in regions of the first type of climatic conditions the mean annual temperature never exceeds 27 and consequently they enjoy either an intermediate or mild temperature.

FIRST TYPE

RÉSUME

Rainfall	Heaviest November, December, January, February. Regular July, August, September, October. Mildest March, April, May, June. Total yearly, 2,766 mm. No dry season.
	No dry season.

Humidity.—Small range of humidity, 78–88. Temperature.—Average less than 27° centigrade.

The regions which enjoy the climatic conditions of the first type are:

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The southeast end of Luzon or the Provinces of Albay and Sorsogon.

The Province of Ambos Camarines and adjacent islands.

The Island of Catanduanes.

The eastern coast of Luzon from the seashore to the range of mountains in the Province of Tayabas, eastern Isabela, and the eastern Cagayan.

The northern and eastern coast of Samar and adjacent islands.

The San Bernardino Strait and adjacent islands.

The eastern coast of Leyte and adjacent islands.

Dinagat and Siargao and adjacent islands.

The small islands on the interisland sea between Panay and Luzon east of longitude 122° E. (south of parallel 10° N.) The peninsula of Surigao to the mouth of Agusan River.

The eastern coast of Mindanao and the great valley of the Agusan River.

On the northern coast of Mindanao, the most northern parts of Misamis Province, and adjacent islands.

All these regions are easily accessible to wet currents direct from the Pacific.

SECOND TYPE

The characteristics of the climatic conditions of the second type are:

I. There is distinct wet and dry season in this type, the dry lasting generally from the end of November to March.

II. The percentage of rainfall during the months from June to October, popularly called the "rainy season," is at least 76 per cent of the total precipitation of the year, while the rainfall from November to February never exceeds 12 per cent of the total average. May and April are apt to have more precipitation than the dry months, owing to electric storms, and occasionally, especially in May, to cyclones.

III. Amount of clouds follows precipitation or rather shows the average precipitation. Clearest months from January to April, cloudiest months September, August, and July.

IV. The annual percentage of humidity is not very high owing to the influence and duration of the dry season. Annual percentage is not more than 80 per cent. The range of the monthly percentage is considerably greater, while the average for the year is less than in regions of the first type.

V. The temperature in these regions is either high or intermediate, seldom or never mild, according to the classification made above.

COULTS CARDENAL AND CARDEN

SECOND TYPE

RÉSUME

Heaviest...... June, July, August, September, October. Regular..... November, December, April, May. Rainfall..... Mildest...... January, February, March. Total yearly, 2,453 mm. Very distinct wet and dry season. Humidity.—Large range, 70–86. Temperature.—Around 27° centigrade.

The regions which enjoy the climatic conditions of the second type are:

The western coast of Luzon from Cape Bojeador to Cape Santiago or the Provinces of Ilocos Norte, Ilocos Sur, Union, Zambales, Bataan, and Batangas.

The Provinces of Rizal, western Bulacan, Pampanga, Nueva Ecija, Tarlac, and Pangasinan, the Lingayen Gulf, and adjacent islands.

The western coast of Mindoro and adjacent islands.

The western coast of Panay.

The islands in the north Sulu Sea and north of Paragua.

The Palawan and adjacent islands.

These regions are far distant from the Pacific Ocean or they do not get the influence of the currents from that ocean except through considerable portions of land.

THIRD TYPE

The charactivistics of the climatic conditions of the third type are:

I. There is a short period of dry season in the regions of this type, lasting one or two months, generally between January and April, according to the more or less prevalence of wet easterly currents over the place, controlled mostly by the distance from the Pacific. We may consider as dry a month with less than 50 mm. rainfall. Average total rainfall for the year is less than 2,000 mm.

II. The percentage of rainfall from November to February is less than 20 per cent of the total precipitation for the year. Percentage for the months of June to October very seldom exceeds 60 per cent.

III. Cloudiness follows the amount of rain, which seems to be uniform during the year except for a short period of less rain; so that the clearest month is, as an average, the least rainy month. The average amount of clouds is less than over the regions of the first type.

> Return to EUREAU OF INTERNATIONAL RELATIONS Departments of California

IV. The relative humidity is lower than the regions of this type south of Luzon. However, the average percentage of each month oscillates in the same manner as the rain.

V. The temperature in this type is generally intermediate on the seashores and high inland where, of course, the altitude above the sea level is below 80 meters. It is mild in the most northerly regions, as in the Batanes and Babuyanes Islands and in northern Luzon on the seashore, as Aparri, and also over the small islands of that type, south, as Jolo, and along the seashores benefited by the straits' currents, as Isabela of Basilan, Zamboanga, and Surigao; finally on the western coasts of Samar and Leyte.

THIRD TYPE

RÉSUME

Humidity.—Very small range, 74-79. Temperature.—Around 26° centigrade.

The regions which enjoy the climatic conditions of the third type are:

The Batanes and Babuyanes groups.

The extreme north of Luzon.

The Cagayan Valley of Luzon with the slopes east of the Sierra Madre down to Caraballo Sur.

Shores around the Laguna Bay.

Masbate and the islands of the interisland seas.

The northern and eastern coast of Panay.

The islands of Negros, Cebu, and Bohol.

The Gulf of Davao.

The western coast of Mindanao and the south end of the Zamboanga Peninsula. The banks along the Pulangui or great Mindanao River.

These regions are somewhat distant from the Pacific Ocean, and if they are exposed to currents from northeast or east, these currents are modified by the influence of intermediate islands and are not so apt to bring condensation or precipitation.

Climates and agriculture.—The difference of the distribution of rainfall in the various parts of the Archipelago which constitutes the basis for the division of climates in the Philippines is also the principal factor in the diversity of the agricultural products which are or may be obtained in the islands. By taking advantage of the natural resources only, some products can be obtained more advantageously in some parts than in others; but by making use of artificial means of irrigation, it is possible to obtain practically all tropical products in one and the same region because the influence of the tropical temperature is uniform enough in all the islands, while the distribution of rain varies greatly in the different epochs of the year and even from year to year in one and same region.

Products such as hemp (abacá), which require a uniform distribution of rain throughout the year without a dry season, grow well in the regions of the first type. Products such as sugar, tobacco, coffee, and cacao, which can resist a short dry season, may be grown with advantage in the regions which have the third type of climate; tobacco can also be grown in the regions of the second type, if the dry season is not of long duration, while with the aid of artificial irrigation the principal products like sugar, tobacco, coffee, and cacao may be obtained in regions of the second type.

Rice may be and, as a matter of fact, is grown in all the types of climate or in all the islands; it also does very well, especially by duplicating the crops, in regions of the third type and in the other types the crops may be increased by irrigation.

Coconuts do well in all the types of climate, but especially in the first and third.

Apart from this, the variety of the products may be greatly increased in the highlands and even nontropical fruits may be harvested, except fruits such as apples, pears, prunes, etc., which do not bear fruit abundantly because in all three types of climate there are periods which have an amount of rain in excess of what these plants can bear.

Hence, the highlands of Abra, Bontoc, Benguet, and Tayabas in Luzon, of Mindoro, the tablelands of Bukidnon, of the high Agusan, Pulangui, and Lanao, and of the Lakes Siguasan, Butuan, and Cebu, recently discovered, are excellent for a great variety of tropical and nontropical agricultural products.

CLIMATE AND HEALTH

The variety of climate in the Philippines may be beneficial to suit different conditions of health. Thus the dry season of the second type gives chance for mild temperature and even relatively cool weather which may be comfortable and very pleasant to visitors from the temperate zone who may enjoy the benefits of a very moderate climate and avoid the rigor and severity of the winter outside of the tropic because the dry season in the second type prevails from November to the end of March or during the winter in the northern hemisphere. Besides, the first type of climate gives all through the year a temperature which we classified as intermediate of mild, so the regions on this kind of climate are relatively agreeable and comfortable to live on. Generally speaking, in all kinds of climate in the Philippines life becomes less comfortable during the months in which rain mostly prevails as it can be seen in the table of rainfall given in the beginning of these notes. It is a matter of fact, as I have pointed out, that the precipitation or rainfall is the mean factor which makes life more or less confortable in the lowlands or below 80 meters of altitude in the Philip-But the factor which changes altogether the conditions pines. of climate in relation to health is the altitude, as it has already been stated.

The first effect of the altitude above the sea level is the diminution of temperature. Experience has shown that the average diminution of temperature is 1° °C. for every 165 meters of altitude above the sea level. Hence the average difference of temperature between Baguio (1,500 meters) above the sea level and Manila is 9° °C. The other highlands in the Philippines are subject to the same rate of diminution of temperature with altitude. The other elements of climate are not so decidedly affected by altitude as temperature and the general features of the type of climate, according to the regions in which they are situated, are generally kept. Therefore Baguio, for instance, has the second type of climate with lowest temperature and more abundant rain.

Practically all the highlands in the Philippines are comfortable to live on especially if they are in regions of the second and third types and in proportion to altitude. As instances we can mention the highlands of Rizal, such as Antipolo, Bosoboso, etc., the highlands of Tayabas, Dolores, Lucban, Sariyaya, etc., the highlands of Batangas south of Taal Lake, the highlands of the northern slope of the mountain chain of Cavite Province, such as Silang, Imus, Dasmariñas, Amadeo, etc., the highlands of Abra, Lepanto and Bontoc, the highlands of Bukidnon, Mindanao and the lands around Lake Lanao, especially the region of Camp Keithley, the highlands near the banks of the Pulangui or Great River of Mindanao, and the lands around lake Liguasan, Butuan and Cebu recently discovered in a state of But, by far, the most important health resorts in exploration. the Philippines are the plateaus of Baguio approximately 5,000 feet above sea level and about 175 miles from Manila most of which distance is covered by railroad and the rest by autos.

Medical reports are constantly praising the beneficial conditions of the Baguio climate. Colonel William H. Arthur writes:

"Experience has shown that a large number of cases of disease or injury, or patients convalescing from surgical operations, recover much more rapidly in the cool mountain climate of Baguio than in the depressing heat and humidity of the plains. Before the establishment of this mountain refuge from the heat of the plains, many cases of this class were transferred to the United States that are now brought back to health at Camp John Hay and Camp Keithley. The beneficial effect of the change in climate is particularly noticeable in people who have become run down after one or more hot seasons spent at the lower levels.

"The great value of a refuge in the mountains from the effect of prolonged heat is shown in medical reports, which indicate the classes of cases especially benefited, but there are a great many others not reported and not actually sick but whose vitality and resistance are more or less diminished and who find great benefit from an occasional sojourn in the mountains of Benguet or the highlands of Mindanao, especially during the hottest part of the year."

