

**GUAM**

110062-32-19

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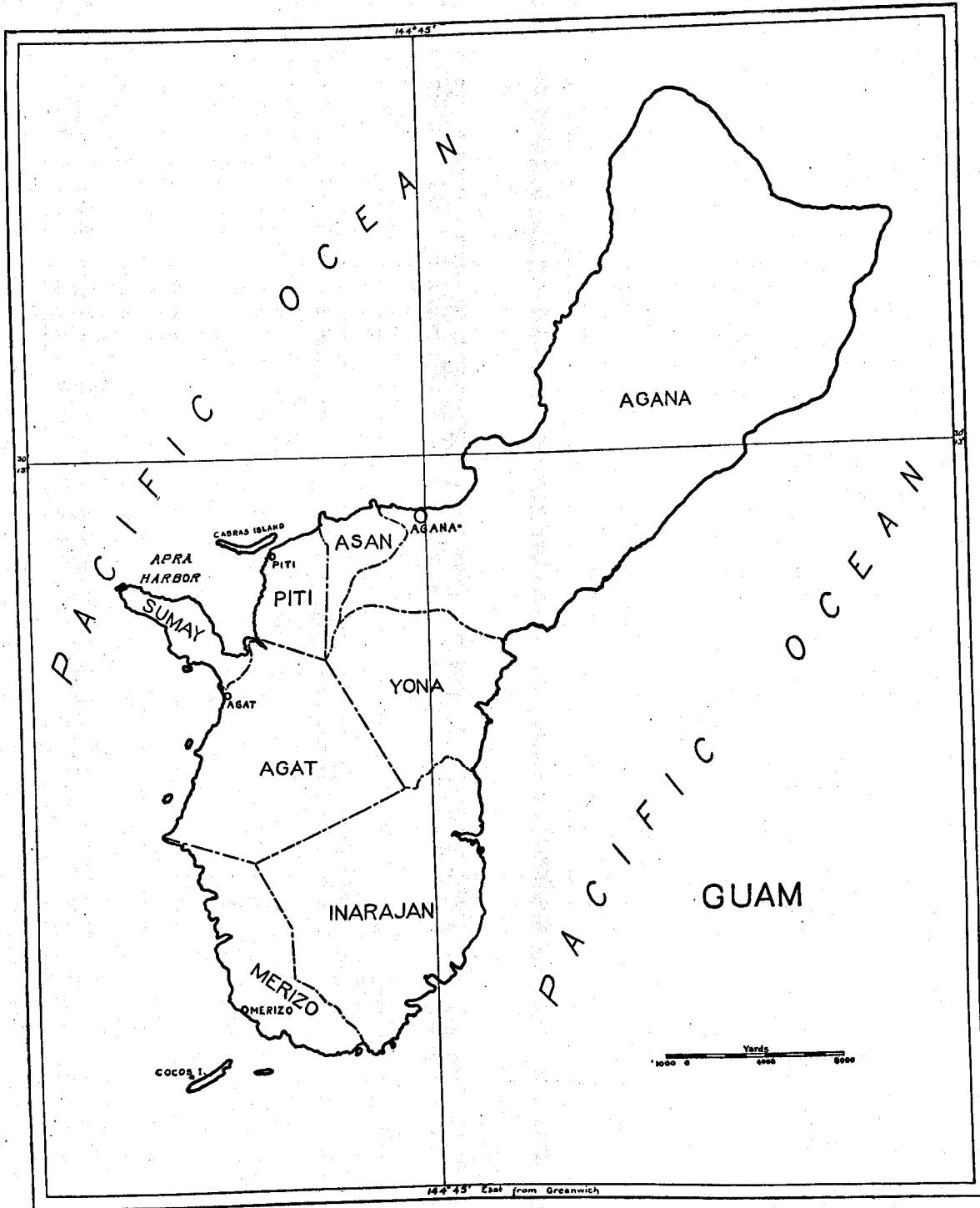
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# GUAM

## MUNICIPALITIES AND PRINCIPAL TOWNS



# POPULATION—GUAM

## NUMBER AND DISTRIBUTION OF INHABITANTS

Total population.—The island of Guam was ceded by Spain to the United States December 10, 1898, but was not enumerated at a Federal decennial census until 1920. Previous enumerations had been made, however, under the direction of the governor. In conformity with the act of Congress providing for the Fifteenth Census, the census of Guam was taken under the supervision of the governor in accordance with plans prescribed or approved by the Director of the Census. The population on April 1, 1930, according to the Fifteenth Census, was 18,509, which represents

an increase of 5,234, or 39.4 per cent, as compared with the population on January 1, 1920. The total area of the island of Guam as shown in Table 2, is 206 square miles. The average number of inhabitants per square mile in 1930 was 89.8 as compared with 64.4 in 1920.

Table 1 shows the population of Guam taken at the Federal censuses of 1930 and 1920, and the population of 1910 and 1901 as reported by the naval governor, together with the increase between the censuses:

TABLE 1.—POPULATION OF GUAM: 1901 TO 1930

CENSUS YEAR	Population	INCREASE OVER PRECEDING CENSUS	
		Number	Per cent
1930.....	<sup>1</sup> 18,509	5,234	39.4
1920.....	<sup>2</sup> 13,275	1,469	12.4
1910 <sup>3</sup> .....	11,806	2,130	22.0
1901 <sup>3</sup> .....	9,676		

<sup>1</sup> Includes population (1,118) of United States naval reservations, and persons on the United States ships stationed at Guam.  
<sup>2</sup> Includes native men enlisted in United States Navy, but excludes United States naval station personnel, numbering 309.  
<sup>3</sup> Census taken by naval governor.

Table 2 shows the area and the population per square mile of the island of Guam, and the 1930 population of the eight municipalities created by decree of

the governor on March 21, 1930. No comparison with previous censuses has been made, the 1920 census having been reported by districts, barrios, and towns.

TABLE 2.—AREA AND POPULATION OF MUNICIPALITIES: 1930

MUNICIPALITY	Area in square miles, 1930	POPULATION, 1930		MUNICIPALITY	Area in square miles, 1930	POPULATION, 1930	
		Total	Per square mile			Total	Per square mile
Guam.....	206	<sup>1</sup> 18,509	89.8	Inarajan.....		1,176	
Agana.....		11,042		Merizo.....		1,101	
Agat.....		887		Piti.....		928	
Asan.....		559		Sunmy.....		1,209	
				Yona.....		489	

<sup>1</sup> Includes population (1,118) of United States naval reservations, and persons on the United States ships stationed at Guam.

Minor civil divisions.—Table 3 shows the population of the eight municipalities of Guam by towns and barrios, where such divisions exist. The population of the naval reservations, including the personnel of the United States ships stationed in Guam, has not been distributed in this table to the various municipalities,

but is shown separately at the end of the table. Comparative figures for 1920 are given for barrios and towns where available. The municipalities, having been established since 1920, show no comparable figures for the previous census.

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TABLE 3.—POPULATION OF MUNICIPALITIES BY MINOR CIVIL DIVISIONS: 1930 AND 1920

[Population returned by towns and barrios. Comparable figures are not given for the municipalities, these having been established since 1920, but are given for towns and barrios where available. For further comparison with 1920, see Reports of the Fourteenth Census, 1920, Vol. I, Table 54]

BARRIO	1930	1920	BARRIO	1930	1920
<b>Municipality Agana</b> .....	<b>11,042</b>		<b>Municipality Inarajan</b> .....	<b>1,176</b>	
Agana city.....	8,690	7,432	Inarajan town.....	812	612
Barrigada barrio.....	701	180	Aga barrio.....	(4)	27
Dedeo barrio <sup>1</sup> .....	760	369	Bubulao barrio.....	12	60
Machananao barrio <sup>2</sup> .....	135	28	Malolos barrio.....	31	39
Sinajana barrio.....	380	204	Talofolo barrio.....	321	215
Tutujan barrio <sup>3</sup> .....	148		<b>Municipality Merizo</b> .....	<b>1,101</b>	
Yigo barrio.....	228	107	Merizo town.....	710	655
<b>Municipality Agat</b> .....	<b>887</b>		Umatac barrio.....	391	327
Agat town.....	609	757	<b>Municipality Piti</b> .....	<b>928</b>	
Chandia barrio.....	22		Piti town.....	387	429
Inaso barrio.....	34		Sinengsong barrio.....	178	
Omo barrio.....	22		Tepungan barrio.....	363	240
Opagat barrio.....	35		<b>Municipality Sumay</b> .....	<b>1,209</b>	
Pasgal barrio.....	16		Sumay town.....	1,028	795
Sagua barrio.....	19		Sumay (rural).....	181	
Salinas barrio.....	86		<b>Municipality Yona</b> .....	<b>489</b>	
Tena barrio.....	21		Yona municipality <sup>4</sup> .....	489	424
Tumat barrio.....	23		<b>Naval reservations</b> <sup>5</sup> .....	<b>1,118</b>	
<b>Municipality Asan</b> .....	<b>559</b>				
Asan town.....	538	345			
Libugon barrio.....	21				

<sup>1</sup> Returned as Dedeo in 1920.

<sup>2</sup> Returned as Machano in 1920.

<sup>3</sup> Returned as a part of Agana city in 1920.

<sup>4</sup> No population.

<sup>5</sup> Not returned by town or barrios.

<sup>6</sup> Include persons on U. S. ships stationed at Guam.

## COMPOSITION AND CHARACTERISTICS OF THE POPULATION

**Introduction.**—This section presents the complete statistics for the population of Guam classified by sex, color or race, age, marital condition, etc. These detailed statistics are given in some form for all the areas shown in the preceding tables except for the barrios, towns, and villages. The first Federal census of Guam having been taken in 1920, there are no comparable figures available for prior years except for the total population.

In Table 1 is given the total population of Guam, of Agana, the principal city, and of the rural sections outside Agana city, for 1930 and 1920. In this table are also given separate figures for the United States naval reservations, including persons on United States ships stationed in Guam, as reported at the census of 1930. A greater portion of this naval population should no doubt be assigned to the city of Agana, but the exact location of these reservations could not be determined from the information given by the enumerators on the census schedules.

**Color or race, nativity, and sex.**—In Table 2 are presented the population statistics for Guam classified by color or race, nativity, and sex for 1930, and by color and sex for 1920. The divisions of the population by color or race are: Chamorro, white, Filipino, Japanese, Chinese, and Negro and other colored.

The Chamorros are the native inhabitants of Guam. The name Chamorro is derived from the Chamorri or Chamoli, the ancient word for "noble." The Chamorros are a hybrid race, being a mixture of Malayan, Spanish, Mexican, English, and other races, with the Malayan strain predominating.

Statistics of the population classified by color or race and sex are presented for municipalities, for naval reservations, and for the city of Agana in Table 9. The white population for 1930 (1,205) as given in Table 2 includes the white naval population (892) of Guam; whereas the white population for 1920 (280) is exclusive of the naval population.

Of the 18,300 persons of native birth reported at the census of 1930, 16,319, or 89.2 per cent are Chamorros, and all but 12 of these Chamorros were born in Guam. Of the native-born white population, 1,051 were born in continental United States, 79 in Guam, 4 in the Philippine Islands, 2 in Hawaii, 1 in Puerto Rico, 1 in the Virgin Islands, and 1 at sea. Of the native-born Filipino population, 277 were born in Guam and 87 in the Philippine Islands.

Of the 209 persons of foreign birth reported at the census of 1930, 83 were Chamorros, 79 of whom were born in the Pacific Islands other than United States possessions. Of the foreign-born white population, 45 were of European and 7 of Canadian birth. Of the foreign-born Japanese population, 55 were born in Japan.

**Age.**—By reason of the outstanding importance of the age classification of the population at the present time, the 1930 age statistics are presented in considerable detail in Table 3. In this table the age classification is presented not only for the total population but also for the principal race classifications (Chamorro, white, Filipino, Japanese, Chinese, and Negro and other colored), by sex. Similar statistics are presented in Table 8 for municipalities, for naval reservations, and for the city of Agana. Comparative figures for 1920 are given in Table 3 for the total population by sex for those groups for which available.

**School attendance.**—The children of Guam between the ages of 7 and 12, inclusive, are compelled by law to receive public instruction. The school-attendance tabulation for Guam is based on the replies to the enumerator's inquiry as to whether the person had attended school or college of any kind since September 1, 1929. The statistics for 1930 for the principal race classifications separated into significant age periods, and certain comparative figures for 1920, are presented in Table 4. School attendance is shown for municipalities, for naval reservations, and for the city of Agana in Table 9.

**Illiteracy.**—The census defines as illiterate any person 10 years of age or over who is unable to read and write. The classification is based on the answers given to the enumerator in response to the question "Whether able to read and write." No specific test of ability to read and write was prescribed, but the enumerators were instructed not to return the answer "Yes" (which would classify the person as literate) simply because a person was able to write his or her name. Due to the present improved school conditions in Guam, illiteracy is confined almost entirely to persons 21 years of age and over. The comparison of illiteracy in Guam in 1930 with illiteracy in 1920 can not be made for the races by age groups for the reason that data concerning illiteracy by races were not given in 1920, nor were the age groups in 1920 the same as in 1930. The statistics of illiteracy are presented for the

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island as a whole in Table 5, and for municipalities, for naval reservations, and for the city of Agana in Table 9.

**Ability to speak English.**—In 1930 a total of 5,219 males and 3,694 females, or 69.1 per cent of the population 10 years of age and over, reported that they could speak English. Of this total, 4,000 males and 3,340 females were reported as Chamorros. In 1920 there were 2,542 males and 1,842 females, or 47.6 per cent of the total population 10 years of age and over, reported as able to speak English.

**Marital condition.**—The classification as to marital condition—whether single, married, widowed, or divorced—is presented for the population 15 years of age and over by sex and color in Table 6 for the island

as a whole, and in Table 9 for municipalities, for naval reservations, and for the city of Agana.

**Gainful workers in specified occupations.**—In Table 7 is shown the population 10 years of age and over engaged in gainful occupations. The figures are presented for the various races by sex.

Persons engaged in gainful occupations in Guam increased from 4,083 in 1920 to 6,178 in 1930, or 51.3 per cent. Approximately one-half of the number reported in 1930, exclusive of soldiers, sailors, and marines, were male Chamorros engaged in agricultural pursuits. Of the 961 women engaged in gainful occupations in 1930, 625 were Chamorros reported as cooks or as engaged in other domestic occupations.

TABLE 1.—TOTAL POPULATION, 1901 TO 1930; URBAN AND RURAL, 1930 AND 1920

CLASS	1930 (April 1)	1920 (January 1)	1910 <sup>1</sup>	1901 <sup>1</sup>	INCREASE, 1920 TO 1930	
					Number	Per cent
Total.....	18,509	13,275	11,808	9,876	5,234	39.4
Urban (Agana city).....	8,690	7,432	(?)	(?)	1,258	16.9
Rural.....	8,701	5,843	(?)	(?)	2,858	48.9
Naval reservations.....	1,118	(?)	(?)	(?)		

<sup>1</sup> Census taken by naval governor.  
<sup>2</sup> Excludes United States naval station personnel (309), included in continental United States.  
<sup>3</sup> Separate figures not available.

TABLE 2.—COLOR OR RACE, NATIVITY, AND SEX: 1930 AND 1920

[Per cent not shown where less than 0.1; sex ratio not shown where base is less than 100]

COLOR OR RACE AND NATIVITY	NUMBER		PER CENT		1930		1920 <sup>1</sup>		MALES PER 100 FEMALES	
	1930	1920	1930	1920	Male	Female	Male	Female	1930	1920
Total population.....	18,509	13,275	100.0	100.0	9,630	8,879	6,490	6,785	108.5	95.7
Native born.....	18,300	13,111	98.8	98.8	9,485	8,815			107.6	
Foreign born.....	209	162	1.1	1.2	145	64				
Chamorro.....	16,402	12,216	88.6	92.0	8,128	8,274	5,837	6,379	98.2	91.5
Native born.....	16,319	12,186	88.2	91.8	8,083	8,231			98.3	
Foreign born.....	83	29	0.4	0.2	40	43				
White.....	1,205	280	6.5	2.1	987	208	176	104	479.3	169.2
Native born.....	1,139	235	6.2	1.8	946	193			490.2	
Foreign born.....	66	44	0.4	0.3	51	15				
Filipino.....	365	396	2.0	3.0	216	149	237	159	145.0	149.1
Native born.....	364	394	2.0	3.0	216	148			145.9	
Foreign born.....	1	2				1				
Japanese.....	297	210	1.6	1.6	172	125	136	74	137.6	
Native born.....	240	132	1.3	1.0	119	121			98.3	
Foreign born.....	57	78	0.3	0.6	53	4				
Chinese.....	203	74	1.1	0.6	99	104	48	26	95.2	
Native born.....	202	68	1.1	0.5	98	104			94.2	
Foreign born.....	1	6			1					
Negro and other colored.....	37	99	0.2	0.7	18	19	56	43		
Native born.....	36	96	0.2	0.7	18	18				
Foreign born.....	1	3				1				

<sup>1</sup> Nativity by sex for the races not available for 1920.  
<sup>2</sup> Includes 1 white person born at sea and 1 Chamorro not reporting place of birth.  
<sup>3</sup> All Negroes.  
<sup>4</sup> Comprises 42 reported as mixed, 28 Negroes, and 29 for whom the race was not reported.

# COMPOSITION AND CHARACTERISTICS

TABLE 3.—AGE: 1930 AND 1920<sup>1</sup>

AGE AND CENSUS YEAR	ALL CLASSES			CHAMORRO			WHITE			FILIPINO			JAPANESE			CHINESE			NEGRO AND OTHER COLORED	
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Male	Female
All ages: 1930.....	18,509	9,630	8,879	16,402	8,128	8,274	1,205	997	208	365	216	149	297	172	125	203	99	104	18	19
Under 5 years.....	3,171	1,633	1,538	2,947	1,524	1,423	57	31	26	64	28	36	54	23	26	44	20	24	2	3
Under 1 year.....	703	358	345	664	343	321	12	7	5	9	4	7	7	2	5	10	4	6	2	1
5 to 9 years.....	2,447	1,234	1,213	2,252	1,135	1,117	54	31	23	60	31	29	57	25	32	18	10	8	2	4
10 to 14 years.....	2,153	1,090	1,063	1,984	1,004	980	23	14	9	39	22	17	78	39	39	25	9	16	2	2
15 to 19 years.....	1,931	1,053	978	1,666	855	811	160	146	14	35	19	16	33	14	19	30	14	16	5	2
20 to 24 years.....	1,820	1,066	754	1,405	700	705	337	318	19	36	21	15	19	13	6	21	13	8	1	2
25 to 29 years.....	1,506	813	693	1,238	601	637	216	183	33	31	20	11	3	2	1	18	7	11	1	1
30 to 34 years.....	1,188	640	548	1,004	506	498	142	106	36	23	18	5	3	3	3	15	7	8	1	1
35 to 44 years.....	1,794	951	843	1,587	800	787	137	99	38	35	26	9	18	16	2	13	8	5	2	2
45 to 54 years.....	1,181	580	601	1,074	489	585	56	49	7	15	10	5	27	27	7	7	3	4	2	2
55 to 64 years.....	850	373	477	804	340	464	17	14	3	11	7	4	5	5	11	7	4	4	2	2
65 to 74 years.....	366	163	203	346	146	200	5	5	1	10	9	1	1	1	1	1	1	2	2	2
75 years and over.....	102	34	68	95	28	67	1	1	1	6	5	1	1	1	1	1	1	2	2	2
21 years and over.....	8,413	4,387	4,026	7,240	3,453	3,787	838	706	133	163	113	60	73	64	9	84	45	39	7	8
All ages: 1920 <sup>1</sup> .....	13,275	6,490	6,785	12,216	5,837	6,379	280	176	104	396	237	159	210	136	74	74	48	26	56	43
Under 5 years.....	2,235	1,143	1,092																	
Under 1 year.....																				
5 to 9 years.....	1,829	940	889																	
10 to 14 years.....	1,681	835	826																	
15 to 19 years.....	1,459	706	753																	
20 to 24 years.....	1,160	557	603																	
25 to 29 years.....	1,772	877	895																	
30 to 34 years.....																				
35 to 44 years.....	1,335	646	689																	
45 to 54 years.....	1,005	448	557																	
55 to 64 years.....	529	246	283																	
65 years and over.....	290	92	198																	
Per cent: 1930.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Under 5 years.....	17.1	17.0	17.3	18.0	18.8	17.2	4.7	3.1	12.5	10.0	13.0	24.2	18.2	16.3	20.8	21.7	20.2	23.1	11.1	15.8
Under 1 year.....	3.8	3.7	3.9	4.0	4.2	3.9	1.0	0.7	2.4	2.5	0.9	4.7	2.4	1.2	4.0	4.9	4.0	5.8	6.3	6.3
5 to 9 years.....	13.2	12.8	13.7	13.7	14.0	13.5	4.5	3.1	11.1	16.4	14.4	19.5	19.2	14.5	25.6	8.9	10.1	7.7	11.1	21.1
10 to 14 years.....	11.6	11.3	12.0	12.1	12.4	11.8	1.9	1.4	4.3	10.7	10.2	11.4	26.3	22.7	31.2	12.3	9.1	15.4	11.1	10.5
15 to 19 years.....	10.4	10.9	9.9	10.2	10.5	9.8	13.3	14.6	6.7	9.6	8.8	10.7	11.1	8.1	15.2	14.8	14.1	15.4	27.8	10.5
20 to 24 years.....	9.8	11.1	8.5	8.6	8.6	8.5	28.0	31.9	9.1	9.9	9.7	10.1	6.4	7.6	4.8	10.3	13.1	7.7	5.6	5.3
25 to 29 years.....	8.1	8.4	7.8	7.5	7.4	7.7	17.9	18.4	15.9	8.5	9.3	7.4	1.0	1.2	0.8	8.9	7.1	10.6	7.7	5.3
30 to 34 years.....	6.4	6.6	6.2	6.1	6.2	6.0	11.8	10.6	17.3	6.3	8.3	3.4	1.0	1.7	7.4	7.1	7.1	7.7	5.3	5.3
35 to 44 years.....	9.7	9.9	9.5	9.7	9.8	9.5	11.4	9.9	13.3	9.6	12.0	6.0	6.1	9.3	1.6	6.4	8.1	4.8	11.1	10.5
45 to 54 years.....	6.4	6.0	6.8	6.5	6.0	7.1	4.6	4.9	3.4	4.1	4.6	3.4	9.1	15.7	3.4	3.0	3.8	11.1	10.5	10.5
55 to 64 years.....	4.6	3.9	5.4	4.9	4.2	5.6	1.4	1.4	1.4	3.0	3.2	2.7	1.7	2.9	5.4	7.1	3.8	10.5	10.5	10.5
65 to 74 years.....	2.0	1.7	2.3	2.1	1.8	2.4	0.4	0.5	0.5	2.7	4.2	0.7	0.5	0.5	1.0	1.0	11.1	10.5	10.5	10.5
75 years and over.....	0.6	0.4	0.8	0.6	0.3	0.8	0.1	0.1	0.1	1.6	2.3	0.7	0.5	0.5	1.0	1.0	11.1	10.5	10.5	10.5
21 years and over.....	45.5	45.6	45.3	44.1	42.6	45.8	69.5	70.7	63.9	44.7	62.3	53.6	24.6	37.2	7.2	41.4	45.5	37.5	38.9	42.1
Per cent: 1920 <sup>1</sup> .....	100.0	100.0	100.0																	
Under 5 years.....	16.8	17.6	16.1																	
Under 1 year.....																				
5 to 9 years.....	13.8	14.5	13.1																	
10 to 14 years.....	12.5	12.9	12.2																	
15 to 19 years.....	11.0	10.9	11.1																	
20 to 24 years.....	8.7	8.6	8.9																	
25 to 29 years.....	13.3	13.5	13.2																	
30 to 34 years.....																				
35 to 44 years.....	10.1	10.0	10.2																	
45 to 54 years.....	7.6	6.9	8.2																	
55 to 64 years.....	4.0	3.8	4.2																	
65 years and over.....	2.2	1.4	2.9																	

<sup>1</sup> Age groups by color or race and number of children under 1 year of age not available for 1920.

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TABLE 4.—SCHOOL ATTENDANCE: 1930 AND 1920<sup>1</sup>

[Per cent not shown where base is less than 100]

AGE, SEX, AND CENSUS YEAR	ALL CLASSES			CHAMORRO			WHITE			FILIPINO			JAPANESE			CHINESE			NEGRO AND OTHER COLORED	
	Total number	Attending school		Total number	Attending school		Total number	Attending school		Total number	Attending school		Total number	Attending school		Total number	Attending school		Total number	Attending school
		Number	Per cent		Number	Per cent		Number	Per cent		Number	Per cent		Number	Per cent		Number	Per cent		
5 to 20 years..... 1930..	6,925	3,861	55.8	6,215	3,529	56.8	310	67	21.6	138	97	70.3	170	121	71.2	75	39	51.3	17	8
Male.....	3,610	2,076	57.5	3,151	1,911	60.6	261	35	13.4	75	51	68.0	80	56	70.0	34	18	52.9	9	5
Female.....	3,315	1,785	53.8	3,064	1,618	52.8	49	32	64.6	63	46	73.0	90	65	72.2	41	21	51.2	8	3
5 years.....	558	8	1.4	522	6	1.1	10	2	20.0	12	4	33.3	10	3	30.0	3	1	33.3	1	1
6 years.....	487	66	13.6	445	48	10.8	12	10	83.3	10	7	70.0	13	3	23.1	5	1	20.0	2	7
7 to 13 years.....	3,140	3,024	96.3	2,882	2,773	96.2	53	50	94.3	72	70	97.2	96	94	97.8	30	30	100.0	7	7
14 and 15 years.....	848	539	63.6	786	494	62.8	7	2	28.6	16	13	81.3	27	22	81.5	11	7	63.6	1	1
16 and 17 years.....	711	172	24.2	663	162	24.4	11	2	18.2	9	5	55.6	14	2	14.3	11	1	9.1	3	3
18 to 20 years.....	1,181	52	4.4	917	46	5.0	217	1	0.5	19	5	26.3	10	1	10.0	15	1	6.7	3	3
21 years and over.....	15	15	100.0	10	10	100.0	3	3	100.0	1	1	100.0	1	1	100.0	1	1	100.0	1	1
5 to 19 years..... 1930..	6,831	3,859	56.3	6,215	3,529	56.8	310	67	21.6	138	97	70.3	170	121	71.2	75	39	51.3	17	8
1920..	4,949	2,122	42.9	4,445	1,911	42.9	261	35	13.4	75	51	68.0	80	56	70.0	34	18	52.9	9	5
Male..... 1930..	3,877	2,075	53.5	3,151	1,911	60.6	261	35	13.4	75	51	68.0	80	56	70.0	34	18	52.9	9	5
1920..	2,481	1,151	46.4	2,064	1,618	78.4	49	32	65.3	63	46	73.0	90	65	72.2	41	21	51.2	8	3
Female..... 1930..	3,154	1,784	56.6	3,064	1,618	52.8	49	32	65.3	63	46	73.0	90	65	72.2	41	21	51.2	8	3
1920..	2,468	971	39.3	2,064	1,618	78.4	49	32	65.3	63	46	73.0	90	65	72.2	41	21	51.2	8	3
5 to 9 years..... 1930..	2,447	1,422	58.1	2,222	1,222	55.0	10	2	20.0	12	4	33.3	10	3	30.0	3	1	33.3	1	1
1920..	1,829	853	46.6	1,663	853	51.3	10	2	20.0	10	7	70.0	13	3	23.1	5	1	20.0	2	7
10 to 14 years..... 1930..	2,153	1,987	92.3	1,987	1,987	100.0	11	2	18.2	9	5	55.6	14	2	14.3	11	1	9.1	3	3
1920..	1,661	1,162	70.0	1,661	1,162	70.0	11	2	18.2	9	5	55.6	14	2	14.3	11	1	9.1	3	3
15 to 19 years..... 1930..	1,931	450	23.3	1,931	450	23.3	217	1	0.5	19	5	26.3	10	1	10.0	15	1	6.7	3	3
1920..	1,459	107	7.3	1,459	107	7.3	217	1	0.5	19	5	26.3	10	1	10.0	15	1	6.7	3	3

<sup>1</sup> School attendance for the races not available for 1920.

TABLE 5.—ILLITERACY: 1930 AND 1920<sup>1</sup>

AGE, SEX, AND CENSUS YEAR	ALL CLASSES			CHAMORRO			WHITE			FILIPINO			JAPANESE			CHINESE			NEGRO AND OTHER COLORED		
	Total number	Illiterate		Total number	Illiterate		Total number	Illiterate		Total number	Illiterate		Total number	Illiterate		Total number	Illiterate		Total number	Illiterate	
		Number	Per cent		Number	Per cent		Number	Per cent		Number	Per cent		Number	Per cent		Number	Per cent			Number
10 years and over..... 1930..	12,891	1,897	14.7	11,203	1,850	16.5	1,094	10	0.9	241	14	5.8	186	8	4.3	141	9	6.4	26	6	23.1
1920..	9,211	2,011	21.8	8,200	1,850	22.6	1,094	10	0.9	241	14	5.8	186	8	4.3	141	9	6.4	26	6	23.1
Male..... 1930..	6,763	625	9.2	5,469	601	11.0	935	6	0.6	157	8	5.1	119	8	6.7	69	1	1.4	14	1	7.1
1920..	4,407	588	13.3	3,819	601	15.7	935	6	0.6	157	8	5.1	119	8	6.7	69	1	1.4	14	1	7.1
Female..... 1930..	6,128	1,272	20.8	5,734	1,249	21.8	159	4	2.5	84	6	7.1	67	7	10.4	72	8	11.1	12	5	41.7
1920..	4,804	1,423	29.6	4,381	1,249	28.5	159	4	2.5	84	6	7.1	67	7	10.4	72	8	11.1	12	5	41.7
10 to 20 years..... 1930..	4,478	90	2.0	3,963	87	2.2	256	1	0.4	78	14	8.6	113	1	0.9	57	1	1.8	11	6	40.0
21 years and over..... 1930..	8,413	1,807	21.5	7,240	1,763	24.4	838	9	1.1	163	8	8.6	73	7	9.6	84	8	9.5	15	6	40.0
1920..	4,387	578	13.2	3,453	555	16.1	705	6	0.9	113	8	7.1	64	7	10.9	45	1	2.2	7	1	14.3
Male..... 1930..	4,026	1,229	30.5	3,787	1,208	31.9	133	3	2.3	50	6	12.0	9	9	100.0	39	7	17.9	8	5	62.5
1920..	4,026	1,229	30.5	3,787	1,208	31.9	133	3	2.3	50	6	12.0	9	9	100.0	39	7	17.9	8	5	62.5

<sup>1</sup> Illiteracy for the specified age groups and for the races not available for 1920.

TABLE 6.—MARITAL CONDITION OF THE POPULATION 15 YEARS OLD AND OVER, BY SEX AND COLOR OR RACE, 1930; AND BY SEX, 1920

[Totals for 1920 include persons whose marital condition was not reported. Per cent not shown where base is less than 100]

CLASS OF POPULATION AND CENSUS YEAR	MALES 15 YEARS OLD AND OVER							FEMALES 15 YEARS OLD AND OVER								
	Total	Single		Married		Widowed		Divorced	Total	Single		Married		Widowed		Divorced
		Number	Per cent	Number	Per cent	Number	Per cent			Number	Per cent	Number	Per cent	Number	Per cent	
Total..... 1930..	5,873	2,662	45.3	2,713	47.8	274	4.8	24	5,085	1,809	35.7	2,686	53.0	549	10.8	21
1920..	3,572	1,491	41.7	1,852	51.8	218	6.1	10	3,978	1,580	39.7	1,865	46.9	518	13.0	14
Chamorro..... 1930..	4,465	1,845	41.3	2,365	53.0	243	5.4	12	4,754	1,691	35.6	2,510	52.8	533	11.2	20
1920..	921	707	76.8	194	21.1	9	1.0	11	150	26	17.3	120	80.0	4	2.7	1
White..... 1930..	135	49	36.3	74	54.8	11	8.1	1	67	31	46.3	29	43.3	6	8.8	1
1920..	80	31	38.8	42	52.5	7	8.8	1	28	10	35.7	17	60.7	1	3.6	1
Filipino..... 1930..	80	31	38.8	42	52.5	7	8.8	1	56	20	35.7	17	30.4	4	7.1	1
1920..	60	25	41.7	32	53.3	3	5.0	1	10	6	60.0	2	20.0	2	20.0	1
Japanese..... 1930..	60	25	41.7	32	53.3	3	5.0	1	10	6	60.0	2	20.0	2	20.0	1
1920..	12	5	41.7	6	50.0	1	8.3	1	10	6	60.0	2	20.0	2	20.0	1
Chinese..... 1930..	60	25	41.7	32	53.3	3	5.0	1	10	6	60.0	2	20.0	2	20.0	1
1920..	12	5	41.7	6	50.0	1	8.3	1	10	6	60.0	2	20.0	2	20.0	1
Negro and other colored..... 1930..	12	5	41.7	6	50.0	1	8.3	1	10	6	60.0	2	20.0	2	20.0	1
1920..	12	5	41.7	6	50.0	1	8.3	1	10	6	60.0	2	20.0	2	20.0	1



POPULATION—GUAM

TABLE 8.—POPULATION BY AGE, COLOR OR RACE, AND SEX, FOR MUNICIPALITIES, FOR NAVAL RESERVATIONS, AND FOR CITY OF AGANA: 1930—Continued

DIVISION AND AGE (YEARS)	ALL CLASSES			CHAMORRO		WHITE		FILIPINO		JAPANESE		CHINESE		NEGRO AND OTHER COLORED	
	Total	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
<b>Municipality Agat—Con.</b>	102	53	49	53	49					1					
35 to 44.....	62	32	30	31	30										
45 to 54.....	51	20	31	20	31										
55 to 64.....	16	11	5	10	5										
65 to 74.....															
75 and over.....															
<i>21 and over</i> .....	411	208	208	200	208					1					
<b>Municipality Asan</b>	559	263	296	221	246		4	8	5	7	7	27	34		
Under 5.....	93	44	49	36	38		1	1			3	7	12		
<i>Under 1</i> .....	20	9	11	8	8						1	1	2		
5 to 9.....	82	46	36	39	31			1	2	1	2	5	1		
10 to 14.....	62	22	40	20	34			1	3	2		4	4		
15 to 19.....	65	33	32	26	23					2		2	6		
20 to 24.....	56	24	32	20	20		1					1	3		
25 to 29.....	39	23	16	21	15								2		
30 to 34.....	25	11	14	10	12								1		
35 to 44.....	55	24	31	19	28		2	1		2		4	1		
45 to 54.....	45	24	21	21	19							1	3		
55 to 64.....	27	8	19	7	16			1				1			
65 to 74.....	10	4	6	2	6										
75 and over.....															
<i>21 and over</i> .....	249	114	135	96	121		3	3		4		11	11		
<b>Municipality Inarajan</b>	1,176	583	593	569	580		1	1	1	12	12				
Under 5.....	243	131	112	130	111					1	1				
<i>Under 1</i> .....	59	32	27	32	27							2			
5 to 9.....	150	72	78	71	76					1	4	1	3		
10 to 14.....	143	66	77	62	74					1	1	5	1		
15 to 19.....	118	51	67	50	53					1		1			
20 to 24.....	100	46	54	45	41				1						
25 to 29.....	85	43	42	43	29		1	1							
30 to 34.....	75	46	29	43	29										
35 to 44.....	103	55	48	54	48										
45 to 54.....	70	30	40	29	40					1					
55 to 64.....	58	33	25	32	25										
65 to 74.....	22	7	15	7	15										
75 and over.....	9	3	6	3	6		1	1	1	4	1				
<i>21 and over</i> .....	498	249	249	248	247										
<b>Municipality Merizo</b>	1,101	570	531	533	495		1	18	18	6	6	12	14		
Under 5.....	174	91	83	85	78			4	3	2	1		1		
<i>Under 1</i> .....	35	18	17	18	16				5		4	1	1		
5 to 9.....	165	89	76	84	66			2	2	2	1	1	2		
10 to 14.....	163	87	76	82	71			1	1	1		1	2		
15 to 19.....	106	64	42	62	41			1	1			1	2		
20 to 24.....	79	35	44	33	41							1	2		
25 to 29.....	63	32	31	30	29							2	1		
30 to 34.....	62	33	29	31	28								3		
35 to 44.....	142	77	65	69	60		1	4	2	1		2	1		
45 to 54.....	86	35	51	33	48					1		1	1		
55 to 64.....	44	21	23	19	22				1			2	1		
65 to 74.....	12	4	8	3	8										
75 and over.....	5	2	3	2	3		1	7	5	2		9	9		
<i>21 and over</i> .....	469	226	243	207	229										
<b>Municipality Piti</b>	928	447	481	363	411		7	3	9	4	29	18	39	45	
Under 5.....	193	102	91	84	75				2	2	5	6	9	8	
<i>Under 1</i> .....	41	20	21	18	17				4	1	7	1	2	3	
5 to 9.....	138	76	62	64	56			2			3	4	4	5	
10 to 14.....	128	61	67	48	37						2	4	4	7	
15 to 19.....	101	53	48	46	34					1		3	4	3	
20 to 24.....	81	34	47	27	43				1		1	4	4	9	
25 to 29.....	61	23	38	17	29					1	2	4	4	5	
30 to 34.....	55	19	36	12	28		1	2					4	5	
35 to 44.....	70	34	36	29	34		1	1	1		1	2	1	1	
45 to 54.....	53	27	26	21	25					3		2	2		
55 to 64.....	33	15	18	13	18				1						
65 to 74.....	10	3	7	2	7										
75 and over.....	5	2	3	2	5										
<i>21 and over</i> .....	356	147	208	114	184		3	3	3	2	10	17	19		
<b>Municipality Sumay</b>	1,209	606	603	564	543		16	17	10	26	8	12	8	4	
Under 5.....	229	126	103	119	91		2	2	1	7	3	3	1	1	
<i>Under 1</i> .....	57	29	28	27	25				2	5	1	4	1	1	
5 to 9.....	150	75	75	71	63			2		4	2	3	2	2	
10 to 14.....	122	67	55	62	46		1		1	2	1	1	1	1	
15 to 19.....	92	46	46	45	41			1	1	1			3		
20 to 24.....	126	55	71	50	66		1	3	1	2		1			
25 to 29.....	104	55	49	51	45		3	2	1	1					
30 to 34.....	66	29	37	27	35		1	1	1						
35 to 44.....	136	71	65	65	57		4	5	2		2		1		
45 to 54.....	72	35	37	29	36		4	1		2					
55 to 64.....	75	30	45	28	43				1						
65 to 74.....	32	15	17	15	17										
75 and over.....	5	2	3	2	3										
<i>21 and over</i> .....	592	281	311	256	289		15	12	6	8	2	1	4		

COMPOSITION AND CHARACTERISTICS

TABLE 8.—POPULATION BY AGE, COLOR OR RACE, AND SEX, FOR MUNICIPALITIES, FOR NAVAL RESERVATIONS, AND FOR CITY OF AGANA: 1930—Continued

DIVISION AND AGE (YEARS)	ALL CLASSES			CHAMORRO		WHITE		FILIPINO		JAPANESE		CHINESE		NEGRO AND OTHER COLORED	
	Total	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Municipality Yona.....	489	255	234	241	220	1		7	4	5	10	1			
Under 5.....	95	53	42	53	38				1		3				
Under 1.....	27	9	11	9	10						1				
5 to 9.....	79	34	45	34	41				1		3				
10 to 14.....	54	30	24	27	21			1	1	2	2				
15 to 19.....	59	29	30	28	28			1			2				
20 to 24.....	30	17	13	13	13			3				1			
25 to 29.....	28	17	11	17	10				1						
30 to 34.....	29	17	12	17	12										
35 to 44.....	47	26	21	24	21					2					
45 to 54.....	32	16	16	14	14			1		1					
55 to 64.....	20	8	12	7	12	1									
65 to 74.....	14	7	7	7	7										
75 and over.....	2	1	1					1							
21 and over.....	197	106	91	87	90	1		4	1	3		1			
Naval reservations.....	1,118	1,042	76	170	21	838	54	34	1						
Under 5.....	13	6	7			6	7								
Under 1.....	3		3				3								
5 to 9.....	17	9	8			9	8								
10 to 14.....	3		3				3								
15 to 19.....	149	147	2	4		143	2								
20 to 24.....	351	337	14	25	11	300	2	3	1						
25 to 29.....	241	223	18	40	10	172	8	11							
30 to 34.....	181	168	13	62		96	13	10							
35 to 44.....	131	122	9	33		81	9	8							
45 to 54.....	32	30	2	6		22	2	2							
55 to 64.....															
65 to 74.....															
75 and over.....															
21 and over.....	855	800	55	167	20	610	34	53	1						
Agana city.....	8,690	4,173	4,517	3,833	4,236	96	114	123	88	95	56	8	5	18	18
Under 5.....	1,518	766	752	709	704	15	13	20	21	17	8	3	3	2	3
Under 1.....	332	173	159	168	151	2	2	2	2	2	2	1	1	2	1
5 to 9.....	1,222	618	604	556	556	17	12	20	16	14	16	1		2	4
10 to 14.....	1,067	552	545	505	512	8	3	17	9	19	19	1	2	2	2
15 to 19.....	967	481	486	449	457	1	9	15	10	8	6	3	2	5	1
20 to 24.....	751	390	361	365	333	6	12	10	11	7	4	1		1	
25 to 29.....	653	277	376	264	347	6	21	6	7	1	1				1
30 to 34.....	489	214	275	206	252	2	19	6	3						
35 to 44.....	750	350	400	317	374	10	19	10	4	11	2			2	1
45 to 54.....	562	250	312	211	305	18	4	5	3	14				2	2
55 to 64.....	416	172	244	151	238	11	2	6	2	4				2	2
65 to 74.....	202	85	117	76	114	2		5	1						
75 and over.....	63	18	45	15	44			3	1					7	7
21 and over.....	3,724	1,679	2,045	1,530	1,924	65	76	50	31	36	7	1			

TABLE 9.—COMPOSITION OF THE POPULATION FOR MUNICIPALITIES, FOR NAVAL RESERVATIONS, AND FOR CITY OF AGANA: 1930

SUBJECT	Total	Agana	Agat	Asan	Inarajan	Merizo	Piti	Sumay	Yona	Naval reservations <sup>1</sup>	Agana city
<b>SEX, COLOR OR RACE, ETC.</b>											
Total population.....	18,509	11,042	887	559	1,176	1,101	928	1,209	499	1,118	8,690
Male.....	9,630	5,416	448	263	583	570	447	606	255	1,042	4,173
Female.....	8,879	5,626	439	296	593	531	481	603	234	76	4,517
Chamorro.....	16,402	10,344	881	467	1,149	1,028	774	1,107	461	191	8,069
Male.....	8,128	5,023	444	221	569	533	363	564	241	170	3,833
Female.....	8,274	5,321	437	246	580	495	411	543	220	21	4,236
White.....	1,205	260	3	4	1	1	10	33	1	892	210
Male.....	997	131	2		1	1	7	16	1	838	96
Female.....	208	129	1	4			3	17		54	114
Filipino.....	365	221		13	2	34	13	36	11	35	911
Male.....	216	129		8	1	18	9	10	7	7	123
Female.....	149	92		5	1	16	4	26	4	1	88
Japanese.....	297	162	3	14	24	12	47	20	15		151
Male.....	172	103	2	7	12	6	29	8	5		95
Female.....	125	59	1	7	12	6	18	12	10		56
Chinese.....	203	19		61		26	84	12	1		13
Male.....	99	12		27		12	39	8	1		8
Female.....	104	7		34		14	45	4			5
Negro and other colored.....	37	36						1			36
Male.....	18	18									18
Female.....	19	18									18
Per cent Chamorro.....	88.6	93.7	99.3	83.5	97.7	93.4	83.4	91.6	94.3	17.1	92.9
Per cent white.....	6.5	2.4	0.3	0.7	0.1	0.1	1.1	2.7	0.2	79.8	2.4
Per cent Filipino.....	2.0	2.0		2.3	0.2	3.1	1.4	3.0	2.2	3.1	2.4
Per cent Japanese.....	1.6	1.5	0.3	2.5	2.0	1.1	5.1	1.7	3.1		1.7
Per cent Chinese.....	1.1	0.2		10.9		2.4	9.1	1.0	0.2		0.1
Per cent Negro and other colored.....	0.2	0.3						0.1			0.4

<sup>1</sup> Naval reservations include United States ships stationed at Guam.

## POPULATION—GUAM

TABLE 9.—COMPOSITION OF THE POPULATION FOR MUNICIPALITIES, FOR NAVAL RESERVATIONS, AND FOR CITY OF AGANA: 1930—Continued

SUBJECT	Total	Agana	Agat	Asan	Inarajan	Merizo	Piti	Sumay	Yona	Naval reservations	Agana city
<b>SEX, COLOR OR RACE, ETC.—Continued.</b>											
Males 21 years old and over.....	4,387	2,261	203	114	249	228	147	281	106	800	1,879
Chamorro.....	3,453	2,083	200	96	243	207	114	256	97	157	1,530
White.....	705	74	2	3	1	7	3	13	4	610	55
Filipino.....	113	56	1	4	4	2	10	2	3	33	50
Japanese.....	64	38	1	11	4	9	17	4	1	1	36
Chinese.....	45	3									1
Negro and other colored.....	7	7									7
Females 21 years old and over.....	4,026	2,526	208	135	249	243	208	311	91	55	2,045
Chamorro.....	3,787	2,399	208	121	247	229	184	289	90	20	1,924
White.....	133	81		3			3	12		34	76
Filipino.....	50	7			1	5	2	8	1	1	31
Japanese.....	9	7					19				7
Chinese.....	39			11	1	9		1			7
Negro and other colored.....	8	7									
<b>SCHOOL ATTENDANCE</b>											
Total 7 to 13 years, inclusive.....	3,140	1,989	147	104	208	232	174	185	91	12	1,597
Number attending school.....	3,024	1,910	140	97	202	227	171	182	83	12	1,544
Per cent attending school.....	96.3	96.0	95.2	93.3	98.1	97.8	98.3	98.4	91.2	100.0	96.7
Total 14 and 15 years.....	848	570	34	22	52	64	49	41	28		458
Number attending school.....	539	369	26	13	29	33	30	24	15		305
Per cent attending school.....	63.6	64.7	78.5	59.1	55.8	61.1	61.2	58.5	57.7		66.6
Total 16 and 17 years.....	711	436	33	29	53	48	43	42	19	8	368
Number attending school.....	172	125	6	6	7	8	10	5	4	1	109
Per cent attending school.....	24.2	28.7	18.2	20.7	13.2	16.7	23.3	11.9	21.1	12.5	30.6
Total 18 to 20 years, inclusive.....	1,181	696	46	34	62	56	54	63	28	222	681
Number attending school.....	52	40	2	2	2	1	1	3		1	38
Per cent attending school.....	4.4	6.4	4.3	5.9	3.2	1.8	1.9	5.7		0.5	7.2
<b>ILLITERACY</b>											
Total 10 years old and over.....	12,891	7,528	604	384	783	762	597	830	315	1,088	5,950
Number illiterate.....	1,897	1,111	139	71	176	99	94	138	69		667
Per cent illiterate.....	14.7	14.8	23.0	18.5	22.5	13.0	15.7	16.6	21.9		11.2
Per cent illiterate in 1920.....	21.8	(?)	(?)	(?)	(?)	(?)	(?)	(?)	(?)	(?)	(?)
Chamorro.....	11,203	7,056	599	323	761	715	495	763	295	191	5,535
Number illiterate.....	1,850	1,083	139	66	176	96	88	135	67		654
Per cent illiterate.....	16.5	15.3	23.2	20.1	23.1	13.4	17.8	17.7	22.7		11.8
White.....	1,094	188	3	3	1	1	8	27	1	862	153
Number illiterate.....	10	10									
Per cent illiterate.....	0.9	5.3									
Filipino.....	241	142		9	2	18	5	21	9	35	134
Number illiterate.....	14	7		1		1	20.0	9.5	22.2		5
Per cent illiterate.....	5.8	4.9		11.1		5.6					3.7
Japanese.....	186	104	2	8	19	5	30	9	9		86
Number illiterate.....	8	5					3				3
Per cent illiterate.....	4.3	4.8					10.0				3.1
Chinese.....	141	13		36		23	59	9	1		7
Number illiterate.....	9	1		4		2	2				
Per cent illiterate.....	6.4	7.7		11.1		8.7	3.4				
Negro and other colored.....	26	25							1		25
Number illiterate.....	6	5									5
Per cent illiterate.....	23.1	20.0						100.0			20.0
<b>MARITAL CONDITION</b>											
Males 15 years old and over.....	5,873	2,944	250	151	314	303	208	336	138	1,027	2,287
Single.....	2,662	1,282	98	65	108	119	86	141	50	713	1,016
Married.....	2,713	1,470	138	78	194	168	113	178	79	295	1,086
Widowed.....	274	185	14	7	11	16	8	18	8	7	129
Divorced.....	24	7		1	1		1	1	1	12	6
Females 15 years old and over.....	5,065	3,203	257	171	328	296	261	370	123	58	2,616
Single.....	1,809	1,194	76	66	100	94	94	116	37	32	1,021
Married.....	2,686	1,644	153	84	193	167	142	204	74	25	1,269
Widowed.....	540	351	26	21	32	35	24	47	12	1	314
Divorced.....	21	14	2		1		1	3			12

\* Illiteracy for municipalities not available for 1920.

# AGRICULTURE—GUAM

## NUMBER OF FARMS, ACREAGE, PRODUCTION, AND LIVESTOCK

Coir, or the fiber of the husk of the coconut, is also a product of commercial importance, being used in manufacturing matting and brushes.

Table 10 shows the amount of copra exported to the United States, and Japan, by years from 1915 to 1930. The principal fruits of Guam are bananas, pine-apples, oranges, lemons, mangoes, papayas, and alligator pears, all of which are of fine quality. At least 11 varieties of bananas are recognized in Guam. They require very little or no cultivation. A distinctive variety of banana which produces fruit at all times of the year, and furnishes the native much of his food, is the plantain.

In addition to the fruit and seed trees previously mentioned, the following are also among the staple farm products of Guam: Breadfruit, coffee, limes, cacao, grapefruit, and kapok.

Special mention should be made of alligator pears which are now grown to a considerable extent on the island, the number of trees having increased from 69 in 1920 to 7,407 in 1930. While the average number of pears per tree is not so high as in 1919, the quality and size of the fruit have greatly improved.

In Table 11 are presented the number of trees and the amount of production of fruits and nuts in 1929 for Guam as a whole, and in Table 12 similar statistics are given by municipalities.

As measured by the number of acres reported under cultivation in 1929, corn is by far the most important field crop of Guam. Two other crops of importance are sweetpotatoes and taro. Taro is widely cultivated and is one of the principal articles of food used by the natives. The following are also grown quite extensively: Yams, tobacco, cassava, rice, arrowroot, and sugarcane.

The acreage and production of specified field crops in 1929 are presented in Table 13 for Guam as a whole, and in Table 14 more detailed statistics for the same products are given by municipalities.

Livestock.—The carabao, or water buffalo, is the chief burden-bearing animal of Guam, being used both for drawing carts and for plowing. The natives seldom eat the meat of the carabao, and although its milk is of excellent quality, it is rarely used for food.

The island government is endeavoring to interest the native farmers in scientific methods of stock breeding and raising, and has acquired a small herd of fine cattle for this purpose.

Table 15 furnishes the number and varieties of live-stock in 1930 and 1920.

Introduction.—Agriculture is the chief industry of Guam. About one-half of the total area of the island is suitable for agriculture and pastureage. The greater part of the farming was originally done with crude hand tools, but modern plows and other agricultural implements are gradually being introduced. However, on account of the very shallow layer of soil over the coral limestone, only a part of this arable land can be cultivated with animal-drawn implements.

In addition to their small farms, nearly all of the natives of Guam have town houses, adjacent to many of which are gardens where are grown vegetables as well as tropical fruits. The natives live in these town houses and go to and from their farms on foot or in carts, thus wasting much time.

The Guam Agricultural Station, maintained by the United States Department of Agriculture, is striving to develop the type of agriculture best suited to local conditions. Large quantities of vegetable seeds and plants are distributed to the natives. The land is being improved, and, as a result, better crops are obtained. Also, better breeds and varieties of livestock are being established. Persistent efforts are being made for the improvement of the rice crop, as this cereal heads the list of imported foodstuffs.

Genus dates.—The census of 1930 relates to April 1 of that year and the crop year of 1929. The census of 1920 relates to January 1 of that year.

Farm.—A "farm", for census purposes, is all the land which is directly farmed by one person, either by his own labor alone or with the assistance of members of his household or hired employees. The farm may be operated from an owner, managed for the owner, or fruits, and nuts, as well as livestock.

Products.—From a commercial point of view the coconut is the most important product. Not only is the coconut used by the natives as food, but its dried is shipped mainly to the United States and Japan, where it is in great demand for manufacturing coconut butters, soaps, and salad oils. There are two regular harvests of copra per year, the principal one of which is during the months from April to June. A hundred trees may be expected under favorable conditions to yield from 25 to 30 quintals per year. There is a ready market for all of the copra produced on the island, and traders vie with one another to secure the crop by advancing the natives money before the crop is harvested.

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AGRICULTURE—GUAM

TABLE 10.—EXPORTS OF COPRA: 1915 TO 1930<sup>1</sup>

FISCAL YEAR	COUNTRY OF DESTINATION		FISCAL YEAR	COUNTRY OF DESTINATION	
	United States	Japan		United States	Japan
	Pounds	Pounds		Pounds	Pounds
<b>Total</b> .....	23,540,288	9,655,773	1922.....	1,040,200	682,800
1915.....	289,360	731,180	1923.....	1,432,400	384,200
1916.....	982,610	958,958	1924.....	2,110,000	476,800
1917.....	1,472,576	761,474	1925.....	1,824,400	377,800
1918.....	1,502,218	902,681	1926.....	735,800	541,200
1919.....	1,140,924	851,680	1927.....	1,740,200	374,800
1920.....	180,000	152,400	1928.....	3,402,400	339,400
1921.....	372,800	28,800	1929.....	1,877,600	1,026,200
			1930.....	3,436,800	1,065,400

<sup>1</sup> Data secured from U. S. Navy Department and from 1920 Census Bulletin.

TABLE 11.—NUMBER OF TREES AND QUANTITY PRODUCED OF SPECIFIED FRUIT AND SEED TREES: 1929

VARIETY	Trees and plants (number)	Quantity	VARIETY	Trees and plants (number)	Quantity
<b>Total</b> .....	1,611,341	17,431,589	Lemons.....	8,466	882,233
Coconuts.....	1,021,884	17,431,589	Limes.....	1,098	139,749
Bananas.....	250,521	1,196,327	Papayas.....	6,847	96,712
Pineapples.....	157,528	118,233	Cacao.....	1,820	2,217
Coffee.....	101,488	54,718	Mangoes.....	6,263	1,184,248
Breadfruit.....	36,493	3,671,190	Alligator pears.....	7,407	287,991
Oranges.....	4,891	393,047	Grapefruit.....	225	8,036
			Kapok.....	6,380	214,856

<sup>1</sup> Bunches.

<sup>2</sup> Pounds.

TABLE 12.—NUMBER OF TREES AND QUANTITY PRODUCED OF SPECIFIED FRUIT AND SEED TREES, BY MUNICIPALITIES: 1929

SUBJECT	Total	Agana	Agat	Asan	Inarajan	Merizo	Piti	Sumay	Yona
<b>Total farms, 1930</b> .....	2,104	1,189	145	71	204	189	95	148	93
<b>Total, 1929</b>									
Coconuts:									
Trees.....	1,021,884	662,977	45,536	19,311	113,030	67,311	20,470	50,494	42,755
Number.....	17,431,589	11,828,870	529,040	396,519	1,747,695	1,637,050	450,890	427,300	364,225
Farms reporting.....	1,828	1,023	108	60	181	183	71	118	84
Bananas:									
Plants.....	250,521	140,952	22,072	5,900	24,187	19,781	7,842	19,237	10,490
Bunches.....	196,327	121,075	18,526	3,734	15,620	11,511	4,916	10,975	9,970
Farms reporting.....	1,770	982	130	60	136	171	71	134	86
Pineapples:									
Plants.....	157,528	82,623	15,721	3,422	17,067	8,385	6,217	16,774	7,319
Number.....	118,233	68,905	10,977	2,474	8,215	4,556	2,409	14,274	6,423
Farms reporting.....	1,013	567	80	23	93	98	22	65	65
Coffee:									
Trees.....	101,488	75,095	2,525	179	10,414	3,009	164	2,270	7,832
Pounds.....	54,718	48,375	562	67	2,048	690	59	882	2,035
Farms reporting.....	964	599	47	5	97	79	13	59	65
Breadfruit:									
Trees.....	36,493	18,731	1,847	832	4,249	6,370	915	1,766	1,783
Number.....	3,671,190	1,127,526	554,372	83,561	404,525	796,384	179,192	354,930	170,700
Farms reporting.....	1,504	842	100	41	137	162	48	109	65
Oranges:									
Trees.....	4,891	2,687	315	144	564	319	104	291	467
Number.....	393,047	202,747	27,618	20,166	29,810	35,026	14,992	33,303	29,385
Farms reporting.....	1,099	594	76	25	107	115	32	74	76
Lemons:									
Trees.....	8,466	3,419	791	242	761	794	70	1,894	525
Number.....	882,233	213,206	40,687	21,829	99,195	62,649	8,227	409,480	26,960
Farms reporting.....	1,150	560	83	17	132	155	25	112	66
Papayas:									
Trees.....	6,847	4,433	473	143	498	126	93	599	482
Number.....	96,712	52,013	4,543	8,470	4,794	862	3,043	20,297	6,690
Farms reporting.....	658	398	43	12	53	28	13	72	39
Cacao:									
Trees.....	1,820	1,217	129	23	299	77			75
Pounds.....	2,217	873	64	10	697	43			13
Farms reporting.....	106	52	10	2	15	15			
Limes:									
Trees.....	1,098	618	64	4	143	69	11	62	127
Number.....	139,749	63,392	3,623	235	16,250	16,269	4,835	19,870	15,275
Farms reporting.....	429	220	28	3	47	43	9	30	49
Mangoes:									
Trees.....	6,263	2,337	1,081	212	682	732	182	746	291
Number.....	1,184,248	363,879	297,437	10,763	120,475	149,944	63,650	158,300	19,800
Farms reporting.....	1,328	676	100	31	140	160	42	108	71
Alligator pears:									
Trees.....	7,407	4,948	448	267	462	321	93	645	223
Number.....	287,991	233,096	4,266	26,748	16,415	2,662	2,844	190	1,770
Farms reporting.....	1,360	800	90	35	111	123	26	110	65
Grapefruit:									
Trees.....	225	72	53	18	46	22	6	8	
Number.....	8,036	3,570	1,975	520	1,570	127	274	5	
Farms reporting.....	99	42	18	3	16	11	4		
Kapok:									
Trees.....	6,380	2,894	1,304	86	739	307	269	605	176
Pounds.....	14,856	6,351	348	239	1,498	1,344	3,106	465	1,505
Farms reporting.....	851	461	69	18	85	74	25	64	55

TABLE 13.—ACREAGE AND QUANTITY PRODUCED OF SPECIFIED AGRICULTURAL PRODUCTS: 1929

PRODUCT	ACRES HARVESTED	QUANTITY PRODUCED		PRODUCT	ACRES HARVESTED	QUANTITY PRODUCED	
	Number	Amount	Unit		Number	Amount	Unit
Total.....	6,086			Tobacco.....	51	27,965	Pound.
Corn.....	3,565	37,686	Bushel.	Cassava.....	165	195,511	Pound.
Sweetpotatoes.....	543	10,689	Bushel.	Rice.....	197	4,096	Bushel.
Taro.....	1,033	1,824,967	Number.	Arrowroot.....	75	48,836	Pound.
Yams.....	404	21,096	Bushel.	Sugarcane.....	53	248,078	Pound.

TABLE 14.—ACREAGE AND QUANTITY PRODUCED OF SPECIFIED AGRICULTURAL PRODUCTS, BY MUNICIPALITIES: 1929

SUBJECT	Total	Agana	Agat	Asan	Inarajan	Merizo	Piti	Sumay	Yona
Total farms, 1929.....	2,104	1,159	145	71	204	189	95	148	93
<i>Total, 1929</i>									
Corn:									
Acres.....	3,565	2,231	104	33	486	409	94	146	62
Bushels.....	37,686	21,132	1,911	552	6,737	2,274	1,635	1,677	1,768
Farms reporting.....	1,696	963	120	38	179	129	66	110	85
Sweetpotatoes:									
Acres.....	543	185	39	3	58	201	2	42	13
Bushels.....	10,689	5,576	1,217	63	1,796	660	193	683	501
Farms reporting.....	638	308	93	7	69	71	5	44	41
Taro:									
Acres.....	1,033	705	55	6	69	109	11	58	20
Number.....	1,824,967	970,268	376,014	17,110	89,484	232,003	42,950	39,638	57,500
Farms reporting.....	1,209	650	119	33	94	126	47	86	54
Yams:									
Acres.....	404	251	19	1	66	22	4	30	11
Bushels.....	21,096	13,250	1,066	47	2,671	971	540	725	1,826
Farms reporting.....	1,163	643	110	12	101	94	37	91	75
Tobacco:									
Acres.....	51	23	2		6	2	1	9	8
Pounds.....	27,965	9,720	640		3,825	420	210	1,591	11,550
Farms reporting.....	147	53	11		29	4	3	18	29
Cassava:									
Acres.....	165	76	10	1	40	21	4	6	7
Pounds.....	195,511	69,953	21,581	2,075	25,049	27,838	10,126	789	38,100
Farms reporting.....	501	235	61	8	41	68	24	23	41
Rice:									
Acres.....	197	70		8		53	62	4	
Bushels.....	4,096	864		233		604	2,295	100	
Farms reporting.....	74	20		4		24	22	4	
Arrowroot:									
Acres.....	75	28	4	1	9	6	2	21	4
Pounds.....	48,836	15,117	7,036	3,855	4,386	5,270	4,000	2,012	7,160
Farms reporting.....	285	111	25	13	25	32	12	38	29
Sugarcane:									
Acres.....	53	28	4	1	1	4	3	10	2
Pounds.....	248,078	120,792	52,000	3,766	6,000	7,986	33,600	8,534	15,400
Farms reporting.....	137	72	8	9	3	10	16	11	8

TABLE 15.—NUMBER AND VARIETIES OF LIVESTOCK, BY MUNICIPALITIES, 1930, WITH TOTALS FOR 1920

SUBJECT	Total	Agana	Agat	Asan	Inarajan	Merizo	Piti	Sumay	Yona	Naval reservations <sup>1</sup>
Total places, 1930.....	2,553	1,394	153	96	217	221	155	210	93	14
Carabao:										
Total, 1930, number.....	3,253	1,926	152	140	577	269	123	17	49	
Places reporting.....	711	228	70	32	144	136	60	12	20	
Total, 1920, number.....	1,160									
Cattle:										
Total, 1930, number.....	6,948	4,487	114	317	613	319	196	464	437	1
Places reporting.....	1,659	1,070	35	39	116	116	60	142	80	1
Total, 1920, number.....	4,535									
Horses and colts:										
Total, 1930, number.....	147	97		4	22	4	6	2		12
Places reporting.....	56	29		2	15	2	5	2		1
Total, 1920, number.....	73									
Hogs and pigs:										
Total, 1930, number.....	7,616	5,026	386	196	353	390	410	497	357	1
Places reporting.....	1,882	1,064	132	63	127	137	120	153	85	1
Total, 1920, number.....	4,365									
Goats and kids:										
Total, 1930, number.....	1,003	643	55	7	85	76	22	77	34	4
Places reporting.....	335	191	21	3	19	33	17	41	6	4
Total, 1920, number.....	543									
Chickens:										
Total, 1930, number.....	154,784	105,097	5,472	3,028	11,178	6,838	4,496	10,957	7,350	368
Places reporting.....	2,436	1,318	150	93	210	217	139	204	93	12
Total, 1920, number.....	(?)									
Ducks:										
Total, 1930, number.....	1,025	486	133	52	109	82	48	74	37	4
Places reporting.....	216	89	40	7	18	21	16	13	11	1
Total, 1920, number.....	(?)									

<sup>1</sup> Not distributed by municipalities.  
<sup>2</sup> None reported.

TABLE 23.—OCCUPATIONS OF THE CIVILIAN POPULATION, CLASSIFIED BY SEX AND COLOR: 1920.

INDUSTRY OR SERVICE.	PERSONS GAINFULLY EMPLOYED: 1920.					
	Total number.	Per cent distribution.	Male.	Female.	White.	Colored.
All occupations .....	7,730	100.0	7,008	722	3,566	4,164
Agriculture, forestry, and animal husbandry.....	237	3.1	237	—	34	1203
Manufacturing and mechanical industries.....	2,564	33.2	2,532	32	1,495	1,069
Transportation.....	2,093	27.1	2,054	39	612	1,481
Water transportation.....	1,312	17.0	1,312	—	329	983
Railroad transportation.....	591	7.6	591	—	164	427
Other transportation.....	190	2.5	151	39	119	71
Trade.....	166	2.1	138	28	81	85
Public service (not elsewhere classified).....	709	9.2	708	1	286	423
Professional service.....	403	5.2	263	140	371	32
Domestic and personal service.....	673	8.7	336	337	63	610
Clerical occupations.....	885	11.4	740	145	624	261

<sup>1</sup> Includes 33 Chinese.   <sup>2</sup> Includes 5 Chinese.   <sup>3</sup> Includes 1 Chinese.

As the total number of employees of the Panama Canal and Panama Railroad was 22,328<sup>1</sup> on January 7, 1920, it will be seen that the gainfully occupied population of the Canal Zone includes only about one-third (34.6 per cent) of the total number of employees of the Panama Canal and the Panama Railroad. It is evident, therefore, that the occupation statistics here presented do not convey a true impression of the magnitude of the industrial operations being carried on within the Canal Zone. This is due to the fact that many of the employees of the Panama Canal and the Panama Railroad reside outside the Canal Zone.

The occupation returns were classified, as nearly as possible, in accordance with the standardized census method; but as some of the enumerators returned the industry merely as "Panama Canal" or "Panama Railroad," it was not always possible to distinguish between persons engaged in the manufacturing and mechanical industries and those employed in the actual operation and maintenance of the canal.

The largest occupation group, including one-third of the gainfully employed population of the Canal Zone, was composed of those engaged in the various manufacturing and mechanical industries directly connected with the operation and maintenance of the Panama Canal and the Panama Railroad.

More than one-fourth (27.1 per cent) of the occupations reported were classified under transportation. As would naturally be expected, the proportion of the gainfully occupied population engaged in pursuits peculiar to transportation was much larger in the Canal Zone than it was in the United States in 1920 (7.4 per cent). The occupations of 591 persons were classified under railroad transportation, who represent only 8 per cent of the 7,358<sup>1</sup> employees of the Panama

<sup>1</sup> Data furnished by the Washington office of The Panama Canal.

Railroad reported at work on January 7, 1920. The explanation of the difference is found in the fact that the great majority of the Panama Railroad employees reside in the terminal cities of Colon and Panama, both of which are situated outside of the Canal Zone.

In Table 24 a comparison is made of the per cent distribution, by occupation groups, of the population of the United States and of the Canal Zone engaged in gainful pursuits.

TABLE 24.—PER CENT DISTRIBUTION, BY OCCUPATION GROUPS, OF THE GAINFULLY EMPLOYED CIVILIAN POPULATION OF THE CANAL ZONE, AND OF THE UNITED STATES: 1920.

OCCUPATION GROUP.	PER CENT DISTRIBUTION.	
	Canal Zone.	United States.
All groups.....	100.0	100.0
Agriculture, forestry, and animal husbandry.....	3.1	26.3
Extraction of minerals.....	—	2.6
Manufacturing and mechanical industries.....	33.2	30.8
Transportation.....	27.1	7.4
Trade.....	2.1	10.2
Public service (not elsewhere classified).....	9.2	1.9
Professional service.....	5.2	5.2
Domestic and personal service.....	8.7	3.2
Clerical occupations.....	11.4	7.5

A majority (56.5 per cent) of the 4,120 gainfully occupied Negroes residing within the Canal Zone were returned as laborers (1,969) or servants (360). On the other hand, only 87 white persons were so returned, and they constituted but 3.6 per cent of the total number of laborers and servants residing in the Canal Zone.

Table 25 shows, by color, the number of laborers and servants in each of the major occupation groups, and the percentage which each color contributes to the total number reported, in comparison with the total number of persons in all occupations.

TABLE 25.—LABORERS AND SERVANTS RESIDING IN THE CANAL ZONE, BY COLOR: 1920.

OCCUPATION GROUP.	Total.	WHITE.		COLORED.	
		Num-ber.	Per cent of total.	Num-ber.	Per cent of total.
All occupations.....	7,730	3,566	46.1	4,164	53.9
Laborers and servants.....	2,432	87	3.6	2,345	96.4
Agriculture.....	153	16	10.5	137	89.5
Manufacturing and mechanical industries.....	344	11	3.2	333	96.8
Transportation.....	1,236	37	3.0	1,199	97.0
Water transportation.....	837	32	3.8	805	96.2
Railroad transportation.....	396	5	1.3	391	98.7
All other transportation.....	3	—	—	3	100.0
Public service (not elsewhere classified).....	290	1	0.3	289	99.7
Domestic and personal service.....	409	22	5.4	387	94.6

<sup>1</sup> Includes 44 Chinese.   <sup>2</sup> Includes 16 Chinese.   <sup>3</sup> Includes porters not in stores.