

J. S. GURNEY,
CONFECTION, TOBACCO & BILLIARD
SALOON,

NO. 19 NUUANU STREET, HONOLULU, H. I.,

DEALER IN ALL KINDS OF VOLCANIC SPECIMENS
FROM KILAUEA,

Shells, Corals, and General Curios

OF THE PACIFIC ISLANDS.

SPECIMEN CASES OR CABINETS

On hand or fitted up on short notice.

THE HAWAIIAN HOTEL,

HOTEL STREET, - - - - HONOLULU,

*With Entrances from Richards, Beretania and
Alakea Streets.*

THE PROPRIETOR, ALLAN HERBERT,

Will spare no pains to make this Elegant Hotel

First Class in Every Particular.

ROOMS CAN BE HAD BY THE WEEK OR NIGHT,
WITH OR WITHOUT BOARD.

LIVERY STABLE IN CONNECTION with the HOTEL.

Hawaiian Annual Calendar

FOR

COMMON YEAR **1878** OF 365 DAYS.

Being the centennial year of the discovery of the Hawaiian Islands by Capt. Cook.

The latter part of the 102nd and the beginning of the 103rd year of the Independence of the United States of America. Also,

The year 7387 of Byzantine Era ;

The year 5638-39 of the Jewish Era ;

The year 2630 since the foundation of Rome, according to Varro ;

The year 1295 of the Mohammedan Era, or Era of Hegira.

HOLIDAYS OBSERVED AT THE HAWAIIAN ISLANDS.

*New Year.....	Jan.	6	American Anniversary.....	July	4
Chinese New Year.....	Feb.	2	*His Majesty's Birthday.....	Nov.	16
*Good Friday.....	Apl.	19	*Recognition of Hawaiian		
Birth of Queen Victoria.....	May	24	Independence.....	Nov.	28
*Kamehameha Commem- oration Day.....	June	11	*Christmas.....	Dec.	25

Those prefixed by a * are recognized by the Government.

CHRONOLOGICAL CYCLES.

Dominical Letter.....	F	Solar Cycle.....	11
Epact.....	27	Roman Indiction.....	6
Lunar Cycle, or Golden Num- ber.....	17	Julian Period.....	6591

CHURCH DAYS, FIXED AND MOVABLE FEASTS.

Epiphany.....	Jan.	6	Rogation Sunday.....	May	26
Septuagesima Sunday.....	Feb.	17	Ascension Day.....	May	30
Shrove Sunday.....	Mch.	3	Pentacost or Whitsuntide.....	June	9
Shrove Tuesday.....	Mch.	5	Trinity Sunday.....	June	16
Ash Wednesday.....	Mch.	6	St. John Baptist's Day.....	June	24
First Sunday in Lent.....	Mch.	10	St. Peter.....	June	27
St. Patrick.....	Mch.	17	St. Michael.....	Sept.	29
Mid Lent.....	Mch.	31	All Saint's Day.....	Nov.	1
Carle Sunday.....	Apr.	7	St. Andrew.....	Nov.	30
Palm Sunday.....	Apr.	14	Advent Sunday.....	Dec.	1
Passion Week.....	Apr.	14-21	St. Thomas.....	Dec.	21
Good Friday.....	Apr.	19	Christmas.....	Dec.	25
Easter Day.....	Apr.	21	St. Stephen.....	Dec.	26
Low Sunday.....	Apr.	28	St. John Evangelist.....	Dec.	27

First Month.

JANUARY, 1878.

31 Days

MOON'S PHASES.

	D.	H. M.
New Moon.....	3	3.32.1 AM
First Quarter.....	11	8.15.5 AM
Full Moon.....	18	1.39.9 PM
Last Quarter.....	25	5.18.5 AM

DAY OF M'TH.	DAY OF WEEK	SUN RISES		H. M.	H. M.	HAWAIIAN CHRONOLOGICAL EVENTS
		H. M.	H. M.			
1	Tu	6.41.5	5.25.1			Honolulu harbor first entered, 1795
2	We	6.41.7	5.25.9			Queen Dowager Emma born, 1836
3	Th	6.41.9	5.26.7			First coolies introduced for plantation labor by the Thetia. Captain
4	Fr	6.42.1	5.27.6			Cass, 1862
5	Sa	6.42.3	5.28.4			
6	SUN	6.42.5	5.29.3			First election at these islands by ballot for Representatives, 1851
7	Mo	6.42.8	5.30.1			First printing executed in Honolulu, 1822
8	Tu	6.43.0	5.31.0			Election of Lunalilo as king, '73; Treaty with Hamburg signed, '48
9	We	6.43.1	5.31.7			Lunalilo takes the oath of office at Kawaiahao church, 1873
10	Th	6.43.2	5.32.4			Eruption of Mauna Loa, 1843; W P Leleiohoku born, 1855
11	Fr	6.43.3	5.33.1			U S schr Dolphin, Lieut Percival, arrived at Honolulu, 1826
12	Sa	6.43.4	5.33.8			Demolition of Honolulu fort begun, 1857
13	SUN	6.43.5	5.34.5			
14	Mo	6.43.6	5.35.1			First issue of the Weekly Argus, 1852 [mehameha. 1794
15	Tu	6.43.7	5.35.7			Vancouver lands cattle and sheep fm Cala at Kealakekua Bay for Ka-
16	We	6.43.6	5.36.4			Clipper ship Sovereign of the Seas visited Honolulu, 1853
17	Th	6.43.5	5.37.1			Capt Cook anchored at Kealakekua. 1779
18	Fr	6.43.4	5.37.8			Discovery of Oahu and Kauai by Capt Cook. 1778; First No of Friend
19	Sa	6.43.3	5.38.5			Capt Cook anchored off Waimea, Kauai, 1778 [issued, 1843
20	SUN	6.43.2	5.39.3			First issue of Hawaiian Annual and Almanac, 1875
21	Mo	6.43.1	5.40.1			First issue of Hawaiian Gazette, 1865
22	Tu	6.42.9	5.40.8			[tion of Mauna Loa, 1859
23	We	6.42.7	5.41.4			First horse landed at the islands from a Boston vessel, 1803; Erup-
24	Th	6.42.4	5.42.0			Kalaniopuu arrived at Kealakekua from Maui 1770
25	Fr	6.42.2	5.42.7			Hurricane (25 and 26) throughout the islands, causing loss of several
26	Sa	6.41.9	5.43.3			vessels, demolishing houses, &c. 1851
27	SUN	6.41.7	5.43.9			Grape vine introduced at Kealakekua by H B M S Providence, 1796
28	Mo	6.41.4	5.44.6			
29	Tu	6.41.2	5.45.2			
30	We	6.40.9	5.45.9			[ice, 1877; Princess Miriam Likelike born, 1851
31	Th	6.40.7	5.46.7			Lunalilo born, 1835; Resignation of Hon E H Allen as Chief Jus-

MORNING AND EVENING STARS.

MERCURY will be visible as Morning Star about Feb. 2, June 2 and Sept. 26; and as Evening Star About April 15, Aug. 13 and Dec. 8.

VENUS will be Evening Star till Feb. 20; then Morning Star till Dec. 5, and Evening Star again the rest of the year.

JUPITER will be Evening Star until Jan. 5; then Morning Star till July 25; and Evening Star again the rest of the year.

THE COURT.

His Majesty, **KALAKAUA**, *b.* November 16, 1836; *m.* December 19, 1863; Ascended the Throne February 12, 1874.

Her Majesty the Queen, *b.* December 31, 1834.

Her Royal Highness the Princess **Lydia Kamakaeha**, *b.* September 2, 1838; *m.* September 16, 1862, to His Excellency John Owen Dominis, Governor of Oahu, K. G. C. of the Royal Orders of Kamehameha and Kalakaua; Kt. Com. of the Orders of Francis Joseph and Isabella Catolica; Member of the House of Nobles and of the Privy Council of State, etc., etc. Proclaimed Heir apparent to the Throne, April 11, 1877.

Her Royal Highness the Princess **Miriam Likelike**, *b.* January 18, 1851; *m.* September 22, 1870, to the Honorable Archibald Scott Cleghorn, K. G. C. of the Royal Orders of Kamehameha and Kalakaua; Member of the House of Nobles and of the Privy Council of State; has issue Her Royal Highness the Princess **Victoria-Kawekiu-Kaiulani-Lunalilo-Kalaninuiiahilapala**, born October 16, 1875.

Her Majesty the Dowager Queen **Emma**, *b.* January 2, 1836; *m.* to Kamehameha IV June 19, 1856.

Her Highness **Ruth Keelikolani**, sister of His late Majesty Kamehameha V; *b.* February 9, 1818.

THE CABINET.

His Majesty, the KING.

Minister of the Interior.....	His Ex. J. Mott Smith
Minister of Foreign Affairs.....	His Ex. H. A. P. Carter
Minister of Finance.....	His Ex. J. M. Kapena
Attorney General.....	His Ex. A. S. Hartwell

HOUSE OF NOBLES.

Their Excellencies **J O Dominis**, **J Mott Smith**, **J M Kapena**; **Hons P Kanoa**, **C R Bishop**, **H A Kahanu**, **P Y Kaco**, **W T Martin**, **J P Parker**, **H Kuihelani**, **J Moanui**, **Jas I Dowsett**, **A S Cleghorn**, **S G Wilder**, **Paul Isenberg**, **S N Castle**, **Godfrey Rhodes**, **Simon K Kaai**.

The Cabinet Ministers hold seats in the House of Nobles *ex officio*.

PRIVY COUNCIL OF STATE.

His Majesty, the KING.

Their Excellencies **J Mott Smith**, **H A P Carter**, **John M Kapena**, **A S Hartwell**, **J O Dominis**, **W L Moehonua**, **S Kipi**; **Hons P Kanoa**, **Elisha H Allen**, **Charles C Harris**, **A Francis Judd**, **Charles R Bishop**, **A S Cleghorn**, **S N Castle**, **Godfrey Rhodes**, **H A Wide-mann**, **Henry M Whitney**, **Edwin O Hall**, **S G Wilder**, **W J Smith**, **W C Parke**, **C H Judd**, **W L Green**, **J A Cummins**, **W P Wood**, **J W Makalena**, **Henry A Kahanu**, **J U Kawainui**, **Jno Moanui**, **Jas I Dowsett**, **J S Walker**. **C H Judd**, Secretary.

MOON'S PHASES.

	D.	H. M.
New Moon.....	1	9.45.8 PM
First Quarter.....	10	2.45.7 AM
Full Moon.....	17	0.45.6 AM
Last Quarter.....	23	4.41.6 PM

DAY OF M'TH.	DAY OF WEEK	SUN RISES		H. M.	H. M.	HAWAIIAN CHRONOLOGICAL EVENTS
		H. M.	H. M.			
1	Fr	6.40.4	5.47.2			<p>Keel of first vessel built at the islands laid, 1791, at Hawaii [ganized 1852, A J Cartwright, Engineer Lunalloddled 1874, leaving the throne vacant; Hon Fire Departm't or- Kamchameha III and Kalama married 1837 Steamer Kalama wrecked at Kauai 1856 Kalanimoku died at Kailua, 1827 Alexander Liholiho (Kamehameha IV) born 1834 First case small-pox at the isl'ds fm the Chas Mallory fm S Francis- Commissioners appointed to settle land claims '46 [co '53 Election of Hon D Kalakaua as king, and riot at Court House 1874 Kalakoua takes the oath of office at Kinau Hale 1874 Capt Cook slain at Kanawaloa 1779; First paper, Laha Hawaii, print- Return of H M Kalakaua fm the U S on the Pensacola '75 [ed 1834 Corner stone of Aliiolani Hale laid 1872; Richard Charlton left the Eruption of Mauna Loa 1852 [islands 1846 Departure of Resolution and Discovery from Kaawaloa 1779 Lord George Paulet seized the isl'ds 1843; Nu Hou first issued 1873 Disturbance in Honolulu by the crew of the U S schr Dolphin Hawaiian Clerical Association formed 1823</p>
2	Sa	6.40.1	5.47.7			
3	SUN	6.39.7	5.48.3			
4	Mo	6.39.4	5.48.8			
5	Tu	6.39.1	5.49.3			
6	We	6.38.7	5.49.8			
7	Th	6.38.4	5.50.4			
8	Fr	6.37.9	5.50.9			
9	Sa	6.37.3	5.51.5			
10	SUN	6.36.7	5.52.1			
11	Mo	6.36.2	5.52.7			
12	Tu	6.35.6	5.53.3			
13	We	6.35.0	5.53.9			
14	Th	6.34.4	5.54.4			
15	Fr	6.33.8	5.54.9			
16	Sa	6.33.1	5.55.4			
17	SUN	6.32.5	5.55.9			
18	Mo	6.31.8	5.56.4			
19	Tu	6.31.2	5.56.9			
20	We	6.30.5	5.56.4			
21	Th	6.29.8	5.57.8			
22	Fr	6.29.1	5.58.2			
23	Sa	6.28.4	5.58.6			
24	SUN	6.27.6	5.59.0			
25	Mo	6.26.9	5.59.4			
26	Tu	6.26.2	5.59.8			
27	We	6.25.5	6.00.2			
28	Th	6.24.7	6.00.7			

THE KINGS OF HAWAII.

Name.	Born.	Began to Reign	Age on Ac-cession.	Died.	Age.	Length of Reign.
Kamehameha I....	1753	1782	29 years	May 8, 1819	66 years.	37 years
Kamehameha II...	1797	May 8, 1819	22 "	July 13, 1824	27 "	5 yrs 3 mos
Kamehameha III...	Mar. 17, 1814	March, 1833	19 "	Dec. 15, 1854	40 " 9 mos	21 " 9 "
Kamehameha IV...	Feb. 9, 1834	Dec. 15, 1864	29 "	Nov. 30, 1863	29 " 9 "	8 " 11 "
Kamehameha V...	Dec. 11, 1830	Nov. 30, 1863	33 "	Dec. 11, 1872	43 "	9 " 11 dys
Lunalilo.....	Jan. 31, 1835	Jan. 9, 1873	38 "	Feb. 3, 1874	39 "	1 " 25 "
KALAKAUA.....	Nov. 16, 1836	Feb. 13, 1874	37 "		Now Reigning.	

SUPREME COURT DIRECTORY FOR THE HAWAIIAN ISLANDS.

Supreme Court.

Hon. CHARLES C. HARRIS.....	Chief Justice
Hon. A. FRANCIS JUDD.....	First Associate Judge
Hon. LAWRENCE McCULLY.....	Second Associate Judge
J. E. Barnard.....	Clerk | Antone Rosa..... Deputy Clerk

TERMS OF SUPREME COURT.

Sitting at Honolulu, first Monday in January, April, July and October

District Justices.

OAHU.		KAUAI.	
W C Jones.....	Honolulu	R S Hapuku.....	Lihue
J R Williams.....	Ewa & Waianae	A W Maioho.....	Koloa
J Kalubi.....	Waialua & Koolauloa	J Kakani.....	Hanalei & Anahola
J L Kaulukou.....	Koolaupoko	F Sinclair (G Gay, acting).....	Niihau

MAUI.		HAWAII.	
H Kuihelani*.....	Wailuku	R A Lyman, P J*.....	Hilo
J D Havekost.....	Makawao	D Waiau.....	Hamakua
C K Kakani.....	Hana & Kaupo	D Makuakane.....	Puna
Mathew Makalua, J P.....	Lahaina	J W Kekaula.....	Kau
M Kealoha.....	Honuaula	J G Hoapili.....	North & South Kona
		P Kamakaala.....	North Kohala
		S H Mahuka.....	South Kohala
(*G E Richardson, acting.)		(*L E Swain, acting.)	

Circuit Judges.

OAHU...... One of the Judges of the Supreme Court

HAWAII.

F S Lyman..... Hilo | Chas F Hart..... Kona

MAUI.

KAUAI.

Abraham Fornander..... Lahaina | D McBryde..... Koloa

TERMS OF CIRCUIT COURT.

Second Circuit, Maui—first Tuesday of June and first Tuesday of December.

Third Circuit, Hawaii—Waimea, first Tuesday of November; Hilo, first Tuesday of May.

Fourth Circuit, Kauai—first Tuesday of February and August.

Clerks of Circuit Court.

D H Hitchcock.....	First Clerk Third Judicial Circuit
Frank Spencer.....	Second Clerk Third Judicial Circuit
Frank Bindt.....	Fourth Judicial Circuit
Henry Dickenson.....	Second Judicial Circuit

Third Month.

MARCH, 1878.

31 Days

MOON'S PHASES.

	D.	H.	M.
New Moon.....	3	4.46.3	PM
First Quarter.....	11	5.30.1	PM
Full Moon.....	18	10.35.6	AM
Last Quarter.....	25	6.18.8	AM

DAY OF M'TH.	DAY OF WEEK	SUN RISES		SUN SETS	HAWAIIAN CHRONOLOGICAL EVENTS
		H. M.	H. M.		
1	Fr	6.23.9	6.01.1		Kamehameha III assumes the reins of government 1833
2	Sa	6.23.1	6.01.4		Great volcanic eruption of Mauna Loa 1843
3	SUN	6.22.3	6.01.8		Vancouver first visits the isl'ds 1792, and departed 1794 from Hawaii
4	Mo	6.21.5	6.02.1		Kamehameha I entertains Vancouver with a sham battle at Ha-
5	Tu	6.20.7	6.02.5		The Islander published 1875 [wail 1793]
6	We	6.19.9	6.02.8		
7	Th	6.19.2	6.03.2		Vancouver anchored at Waikiki 1792
8	Fr	6.18.4	6.03.5		
9	Sa	6.17.6	6.03.8		
10	SUN	6.16.8	6.04.1		
11	Mo	6.16.0	6.04.4		
12	Tu	6.15.2	6.04.7		Vancouver anchored at Lahaina 1793; Hon G M Robertson, First
13	We	6.14.3	6.05.0		H H Chas Kanaina died 1877 [Associate Justice died 1867]
14	Th	6.13.4	6.05.4		Vancouver's final departure from Kauai 1794
15	Fr	6.12.5	6.05.7		Lava flow from Mauna Loa ceased, distant 5 miles from Hilo, 1856
16	Sa	6.11.6	6.06.0		Schr Kamamalu lost in the Hawaii channel with about 80 souls 1857
17	SUN	6.10.7	6.06.3		Kamehameha III born 1814; Schr Fair American cut off at Kawai-
18	Mo	6.09.8	6.06.6		New Post Office opened 1871 [hae 1790]
19	Tu	6.08.9	6.06.8		Second effort for a Reciprocity Treaty with the U States 1855, by
20	We	6.08.1	6.07.0		Hon W L Lee*
21	Th	6.07.3	6.07.3		
22	Fr	6.06.4	6.07.9		Heavy rains and flood at Koloa, Kauai, 1847
23	Sa	6.05.5	6.08.4		Keeaumoku, governor of Kauai, died 1824; Rear Admiral Hamelin
24	SUN	6.04.6	6.09.0		returns the \$20,000, 1846, taken away by La Place in 1839
25	Mo	6.03.7	6.09.5		
26	Tu	6.02.8	6.10.1		French treaty signed 1846, British treaty signed 1846
27	We	6.01.9	6.10.6		Treaty with Bremen ratified 1854; Earthquake and tidal wave at
28	Th	6.00.1	6.10.9		Kau, Hawaii, with great loss of life 1868
29	Fr	5.59.5	6.10.7		
30	Sa	5.58.9	6.10.5		Third company of missionaries arrived 1828
31	SUN	5.58.2	6.10.2		Brig Thaddeus with the first missionaries touches off Kohala

*A Treaty of Reciprocity was signed July 20, 1855, by W L Marcy, Secretary of State, and W L Lee, Hawaiian Commissioner, which was acknowledged as mutually advantageous and highly important to the commercial intercourse between the two countries, but it was not ratified by the United States Senate.

Mr Lee left Washington Sept 24 of the same year, and reached Honolulu via Cape Horn on the Raduga, Feb 22, 1856.

TABLE of FOREIGN COINS Adopted as the CURRENT RATES in HONOLULU, H. I.

By resolution of His Majesty the King in Privy Council, and published by the Finance Department, the value of the following coins have been fixed and determined at the rate set opposite to them, respectively, viz :

GOLD.		U. S. HLF. DOLS.	GOLD.		U. S. HLF. DOLS.
U S Double Eagle, at	40		Italian 20 Lire, at	8	
U S Eagle, at	20		Italian 10 Lire, at	4	
U S Half Eagle, at	10		Russian 5 Roubles, at	8	
U S Quarter Eagle	5				
Eng. & Austr. Sovereigns, at	10		SILVER.		
Eng. & Austr. Hlf. Sovs. at	5		French 5 Francs, at	2	
French 50 Francs, at	20		Mexican Dollar, old die	2	
French 20 Francs, at	8		Belgian 5 Francs, at	2	
French 10 Francs, at	4		Italian 5 Lire, at	2	

Eng. Shilling, Spanish, Mexican, and Peruvian Qr. Dols. at 25cts each.

Other coins than the above are not current, or legal tender, in the Hawaiian Islands.

The Currency Act of 1876 makes U. S. gold coin the standard, and payable with silver in the following proportions.

Debts not exceeding fifty dollars, payable in silver.

Debts from fifty to one hundred dollars, all over fifty payable in gold.

From one hundred to one thousand dollars, seventy-five per cent. payable in gold.

Amounts exceeding one thousand dollars, above the first thousand, eighty-five per cent. payable in gold.

All import duties and interest on Government Bonds shall be paid in U. S. gold coin or its equivalent.

ECLIPSES IN 1878.

In the year 1878 there will be four Eclipses, two of the Sun—invisible at these islands—and two of the Moon, one of which will be visible here; and a Transit of Mercury over the Sun's disc.

A Partial Eclipse of the Moon, Feb. 16-17; occurring as follows—Honolulu time:

Moon enters Penumbra	16d. 10h. 10m. 4 PM
Moon enters shadow	16d. 11h. 11m. 7 PM
Middle of eclipse	17d. 0h. 39m. 9 AM
Moon leaves shadow	17d. 2h. 08m. 0 AM
Moon leaves Penumbra	17d. 3h. 09m. 3 AM
Magnitude of Eclipse—0.840 (moon's diameter=1.)	

A Transit of Mercury occurs May 6, visible at these islands; occurring at Honolulu as follows:

Ingress Exterior...	4.43.0 AM...	Egress Interior....	0.14.3 PM
Ingress Interior....	4.46.1 AM...	Egress Exterior...	0.17.4 PM

MOON'S PHASES.

	D.	H.	M.
New Moon.....	2	10.43.1	AM
First Quarter.....	10	4.23.7	AM
Full Moon.....	16	7.26.1	PM
Last Quarter.....	23	10. 2.0	PM

DAY OF M'TH.	DAY OF WEEK	H. M.		HAWAIIAN CHRONOLOGICAL EVENTS
		SUN RISES	SUN SETS	
1	Mo	5.57.3	6.10.4	
2	Tu	5.56.4	6.10.7	
3	We	5.55.6	6.11.0	First Representatives chosen for the people 1845 under Const'n of '40 [sary of arrival of first missionaries celebrated in Honolulu '70
4	Th	5.54.7	6.11.3	Brig Thaddeus anchored in Kaitua '20; Kinau died '39; 50th anniver-
5	Fr	5.53.9	6.11.6	Kekauluohi became Premier 1839; Treaty with Sweden and Norway
6	Sa	5.53.0	6.11.9	ratified 1855
7	SUN	5.52.2	6.12.2	Eruption of Mauna Loa 1863
8	Mo	5.51.3	6.12.6	[missionaries arrived 1837
9	Tu	5.50.3	6.13.0	Organization of first Lodge of Good Templars 1869; 8th company of
10	We	5.49.3	6.13.5	H R H Wm Pitt Lelelohoku, Heir Apparent, died 1877
11	Th	5.48.3	6.14.0	H R H Liliu Kamaekaha Dominis proclaimed Heir Apparent 1877
12	Fr	5.47.3	6.14.4	
13	Sa	5.46.3	6.14.9	Arrival of Russian Exploring Expedition at the islands 1821
14	SUN	5.45.3	6.15.3	
15	Mo	5.44.4	6.15.6	Arrival of Rev Messrs Ellis, Tyermann and Bennett fm Tahiti 1822
16	Tu	5.43.6	6.15.8	R Charlton, wife and her sister (first European women residents) ar-
17	We	5.42.8	6.16.2	French Catholic Mission returns to Honolulu 1837 [rived 1825
18	Th	5.42.0	6.16.6	Missionaries first arrive at Honolulu 1820
19	Fr	5.41.2	6.16.9	Stmr Wonga Wonga arrived fm Sydney, pioneer of the Aus & Cala
20	Sa	5.40.4	6.17.3	Jonas Piikoi died 1859 [Steam Line 1870
21	SUN	5.39.6	6.17.6	
22	Mo	5.39.0	6.17.9	
23	Tu	5.38.4	6.18.1	First miss packet Morning Star arrived 1857; 2d comp'y missionaries
24	We	5.37.8	6.18.3	arrived 1823; Microscopical and Nat Hist Soc formed 1875
25	Th	5.37.2	6.18.6	Hawaiian Flour Company incorporated 1856
26	Fr	5.36.6	6.18.8	Corner store of Odd Fellow's Hall, Honolulu, laid 1859
27	Sa	5.36.0	6.19.1	
28	SUN	5.35.4	6.19.4	
29	Mo	5.34.6	6.19.9	
30	Tu	5.33.8	6.20.4	Postal Treaty with New South Wales ratified 1874

BARBER'S POINT.—This extremity, situated on the S.W. point of Oahu, takes its name from Capt. Barber, who was wrecked there in the trading brig *Arthur* in October, 1796, on his voyage from Bengal by way of Port Jackson to the N. W. coast of America. It was his second visit to these islands, and having taken in refreshments at Waikiki, sailed with the intention of touching at Kauai. The vessel became a total wreck, but through the assistance of John Young the greater part of her cargo of furs, &c., were saved.

INTER-ISLAND DISTANCES BY SEA, IN SEA MILES.

PREPARED FOR THIS CENTENNIAL ISSUE BY C. J. LYONS.

AROUND OAHU.

From Honolulu, Esplanade wharf, to:—

	MILES		MILES
Bell Buoy.....	1½	Kahuku	51
Diamond Head.....	5	Pearl River bar.....	6
Coco Head.....	12	Barber's Point.....	14
Makapuu Point.....	17	Kaena Point, NW of Oahu.....	34
Mokapu	29	Kahuku, N pt of Oahu via Kaena	54

Honolulu to:—

	MILES		MILES
Lae o ka Lua, SW point of Mo- lokai.....	35	Mahukona.....	134
West point of Lanai.....	50	Kawaihae.....	144
Kalaupapa Leper Settlement..	50	Kealakekua direct.....	157
Lahaina.....	72	Kealakekua via Kawaihae....	186
Kahului.....	90	SW pt Hawaii via Kawaihae..	233
Hana.....	125	Punaluu.....	250
Maalaea.....	85	Hilo direct.....	192
Makena.....	90	Hilo windward route.....	207
		Hilo via Kawaihae.....	230

Honolulu to:—

	MILES		MILES
Koloa, Kauai.....	102	Waimea	120
Nawiliwili	98	Hanalei	120
Niihau.....			144

Lahaina to:—

	MILES		MILES
Kaluaaha.....	17	Maalaea	12
Lanai.....	9	Makena	18

Kawaihae to:—

	MILES		MILES
Mahukona	10	Hilo	85
Waipio	40	Lae o ka Mano	20
Honokaa	50	Kailua	34
Laupahoehoe.....	65	Kealakekua	44

Hilo to:—

	MILES		MILES
E point of Hawaii.....	20	Punaluu	70
Keauhou, Kau.....	50	Kaalualu.....	80
S point Hawaii.....			85

WIDTH OF CHANNELS, EXTREME POINT TO POINT.

	MILES		MILES
Oahu and Molokai.....	23	Maui and Lanai	9
Diamond Head to SW point Molokai	30	Maui and Kahoolawe.....	6
Molokai and Lanai.....	7	Hawaii and Maui.....	25
Molokai and Maui.....	9	Kauai and Oahu.....	67
		Niihau and Kauai.....	15

OCEAN DISTANCES—HONOLULU TO:

San Francisco.....	2100	Auckland	3814
Portland, about.....	2400	Sydney	4480
Panama	4620	Hongkong.....	4893
Tahiti	2380	Yokohama.....	3440

MOON'S PHASES.

	D.	H. M.
New Moon.....	2	2.19.2 AM
First Quarter.....	9	0. 1.3 PM
Full Moon.....	16	4. 0.3 AM
Last Quarter.....	23	3.10.6 PM
New Moon.....	31	3.16.5 PM

DAY OF MONTH.	DAY OF WEEK	SUN RISES		SUN SETS	HAWAIIAN CHRONOLOGICAL EVENTS
		H. M.	H. M.		
1	We	5.32.9	6.20.9	Schr Prince Regent presented by Capt Kent to Liholibo from His	
2	Th	5.32.4	6.21.3	Brit Majesty 1822; 6th company of missionaries arrive 1833	
3	Fr	5.31.9	6.21.6	[in England '25; Postal Treaty with U States signed '70	
4	Sa	5.31.4	6.22.0	Arrival of the Blonde with remains of Kamehameha II and Consort	
5	SUN	5.30.9	6.22.3	Convention to amend Const'n called by Kamehameha V '64; Arrival	
6	Mo	5.30.3	6.22.7	of Japanese Embassy en route to U States 1860; Treaty with	
7	Tu	5.29.8	6.23.0	Great Britain ratified 1862	
8	We	5.29.3	6.23.3	Kamehameha I died at Kailua, Hawaii 1819	
9	Th	5.28.8	6.23.7	Eruption of Mauna Loa 1849 [Eton of Hawn Bible finished 1839	
10	Fr	5.28.4	6.24.1	Tidal wave throughout the Is with loss of life at Hilo 1877; First edi-	
11	Sa	5.27.9	6.24.5	Lieut Hergest, Mr Gooch and one seaman of the Dodalus killed by	
12	SUN	5.27.4	6.24.9	natives at Waimea, Oahu 1792	
13	Mo	5.27.0	6.25.3	Small Pox visits the Islands 1853	
14	Tu	5.26.5	6.25.7		
15	We	5.26.1	6.26.1	First export of Hawaiian Rum from Heeia, Oahu, 1875	
16	Th	5.25.7	6.26.6	(17) Tidal wave throughout the Is doing damage on the eastern shores	
17	Fr	5.25.3	6.27.1	1841; 5th compy of miss arrive 1832; Belgian Co of coloniza-	
18	Sa	5.24.9	6.27.5	tion contract of Ladd & Co signed 1842	
19	SUN	5.24.5	6.27.9	Capt Beechy in H M S Blossom visited Honolulu 1826	
20	Mo	5.24.1	6.28.4	Prince of Hawaii born 1858	
21	Tu	5.23.7	6.28.9	9th company of missionaries arrive 1841	
22	We	5.23.4	6.29.4	The royal party, Kamehameha II, Consort and suite land at Ports-	
23	Th	5.23.2	6.29.8	mouth, Eng 1824; First steamer H B M S Cormorant, entered	
24	Fr	5.23.0	6.30.3	Honolulu 1846	
25	Sa	5.22.7	6.30.7	Capt's Portland and Dixon in the King George and Queen Charlotte	
26	SUN	5.22.5	6.31.2	Kaumuallii, Ex King of Kauai died 1824 [arrived at Hawaii 1786	
27	Mo	5.22.3	6.31.6	Trial by arbitration of Ladd & Co vs Hawn Govt concluded 1847	
28	Tu	5.22.0	6.32.1	Com La Perouse visits Lahaina 1786; Judge Lee died 1857	
29	We	5.21.8	6.32.5	Princess Victoria Kamamalu died 1866	
30	Th	5.21.6	6.33.0	Eruption of Kilauea, 1840	
31	Fr	5.21.4	6.33.4	Mission established at Lahaina, 1823	

FIRST HORSES.—The Hawaiian Islands are indebted to the coast for their stock, not only for the late importations of "thorough-breds," but the first landed on these shores were brought from there by Capt. Cleveland in 1803, landing a mare and foal at Kawaihae, June 24th, under John Young's care, and taking two horses to Lahaina for the King, proved to him their use by having the sailors ride them.

OVERLAND DISTANCES.

CORRECTED FOR THIS ISSUE BY C. J. LYONS.

ISLAND OF OAHU.

From Honolulu Post Office, to:—

	MILES		MILES
Waikiki Grove.....	3	Waimanalo.....	12
Diamond Head.....	4 $\frac{1}{2}$	Kaneohe Plantation.....	9 $\frac{1}{2}$
Koko Head.....	11	Kaalaea Plantation.....	15
Ewa Church.....	11	Kualoa Ranch.....	19 $\frac{1}{2}$
Waialua Church.....	28 $\frac{1}{2}$	Punaluu Rice Plantation.....	26
Waianae Church, Pokai.....	30	Laie Settlement.....	32
Nuuanu Pali.....	6	Kahuku.....	38

ISLAND OF KAUAI.

From Lihue to:—

	MILES
Wailua Falls.....	5
Koloa.....	10
Kealia.....	14
Kilauea.....	22
Hanalei.....	30

From Koloa to:—

	MILES
Hanapepe.....	7
Waimea.....	15

From Lihue to:—

	MILES
Mana Point.....	10

ISLAND OF MAUI.

From Lahaina to:—

	MILES
Kaanapali.....	4
Wailuku.....	20

From Kahului to:—

	MILES
Wailuku P. O.....	3
Makawao.....	11
Hana through Hamakua.....	45

From Wailuku to:—

	MILES
Kalepolepo.....	10
Makee's Plantation.....	20
Makawao.....	14

From Kalepolepo to:—

	MILES
Makee's.....	10
Makawao.....	13 $\frac{1}{2}$

From Haiku Landing to:—

	MILES
Makawao.....	7

From Makawao, Sayre's Store to:—

	MILES
Summit of Haleakala.....	13

From Makena to:—

	MILES
Makee's Plantation.....	3

From Utupalakua to:—

	MILES
Hana, via Kaupo.....	45

ISLAND OF HAWAII.

From Hilo to:—

	MILES
Kaupakuea Plantation.....	10
Volcano.....	30 $\frac{1}{2}$
Summit Crater, via Kilauea.....	65
Waiohinu.....	65

From Kawaihae to:—

	MILES
Waimea.....	11
Kailua.....	30
Kohala Plantation.....	17

From Kohala Plantation to:—

	MILES
Waimea.....	23

From Waimea to:—

	MILES
Waipio Valley.....	10

From Waimea to:—

	MILES
Laupahochoe.....	30

From Laupahochoe to:—

	MILES
Hilo.....	30

From Waimea to:—

	MILES
Summit of Maunakea via Kalaieha.....	40
Hilo via Hamakua.....	62
Hilo via Kalaieha.....	54

From Kealakukua to:—

	MILES
Kailua.....	13
Waiohinu.....	48
Summit of Mt. Hualalai.....	25

MOON'S PHASES.

	D.	H.	M.
First Quarter.....	7	5.23.6	PM
Full Moon.....	14	1.19.8	PM
Last Quarter.....	22	8.43.8	AM
New Moon.....	30	1.59.6	AM

DAY OF M'TH.	DAY OF WEEK	HAWAIIAN CHRONOLOGICAL EVENTS		
		SUN RISES H. M.	SUN SETS H. M.	
1	Sa	5.21.6	6.33.6	
2	SUN	5.21.4	6.34.0	Kamehameha IV and Emma Rooke married 1856
3	Mo	5.21.2	6.34.5	
4	Tu	5.21.1	6.34.9	
5	We	5.21.0	6.35.4	Kaahumanu died 1832
6	Th	5.20.9	6.35.8	First issue of the Polynesian 1840; 7th comp'y of missionaries ar-
7	Fr	5.20.8	6.36.3	Fourth company of missionaries arrived 1831 [rived 1835
8	Sa	5.20.7	6.36.7	
9	SUN	5.20.9	6.36.9	A Ten Eyck, U S Commissioner arrived 1846
10	Mo	5.21.1	6.37.1	
11	Tu	5.21.3	6.37.3	Commemoration Day first celebrated 1872; Opening of Kapiolani
12	We	5.21.5	6.37.5	Park 1877
13	Th	5.21.7	6.37.7	A Paki died 1866
14	Fr	5.21.9	6.37.9	[Laupahoehoe 1866
15	Sa	5.22.1	6.38.1	Boat's crew of Amer ship Hornet burned at sea May 3 landed at
16	SUN	5.22.3	6.38.3	Arrival of British Flying Squadron at Honolulu 1870
17	Mo	5.22.5	6.38.6	Royal Hawaiian Theatre opened 1848; Reciprocity Treaty with the
18	Tu	5.22.8	6.38.8	United States concluded 1876
19	We	5.23.0	6.39.0	Treaty with Russia signed 1869
20	Th	5.23.3	6.39.3	
21	Fr	5.23.5	6.39.5	
22	Sa	5.23.7	6.39.7	
23	SUN	5.23.9	6.39.9	[ing the cession 1843
24	Mo	5.24.1	6.40.1	Hawaiian Government protests against Lord Geo Pualet's acts dur-
25	Tu	5.24.4	6.40.4	Stmr Annie Laurie, first coasting stmr built here, launched 1862
26	We	5.24.6	6.40.6	102 idols burned by order of Kaahumanu 1822
27	Th	5.24.8	6.40.8	
28	Fr	5.25.0	6.41.0	
29	Sa	5.25.3	6.41.3	
30	SUN	5.25.5	6.41.5	

MARQUESAS MISSION.—In response to a call from Marquesas in the early part of 1853, brought by a chief named Makounui and a relative named Puu, who arrived in the American whaleship *Tamertane*, the Hawaiian Mission Society chartered the brig *Royalist* and sent two Hawaiian ministers, and two school teachers with their wives, and Mr. J. Bicknell. They sailed June 16th, 1853, with the late Rev. B. W. Parker as supervisor in settling them in their several stations. A former effort had been made to establish a mission there by, we believe, the late Revs. Dr. Armstrong and B. W. Parker.

**LIST OF ARTICLES ADMITTED FREE BY DUTY FROM THE UNITED STATES,
Hawaiian Consular Certificate being attached to Invoices of their being the pro-
duct or manufacture of the United States.**

Agricultural implements; animals; beef, bacon, pork, ham, and all fresh, smoked, or preserved meats; boots and shoes; bricks, lime, and cement; butter, cheese, lard, tallow; bullion; coal; cordage, naval stores, including tar, pitch, resin, turpentine raw and rectified; copper and composition sheathing, nails and bolts; cotton and manufactures of cotton, bleached and unbleached, and whether or not colored, stained, painted, or printed; doors, sashes, and blinds; eggs; fish and oysters, and all other creatures living in the water, and the products thereof; fruits, nuts, and vegetables, green, dried, or undried, preserved or unpreserved; grain, flour, meal and bran, bread and bread-stuffs, of all kinds; hardware, harness, and all manufactures of leather; hides, furs, skins, and pelts, dressed or undressed; hoop iron and rivets, nails, spikes, and bolts, tacks, brads, or sprigs; ice; iron and steel, and manufactures thereof; leather; lumber and timber of all kinds, round, hewed, sawed and unmanufactured, in whole or in part; machinery of all kinds, engines and parts thereof; oats and hay; paper, stationery, and books, and all manufactures of paper or of paper and wood; petroleum and all oils for lubricating or illuminating purposes; plants, shrubs, trees, and seeds; rice; sugar, refined or unrefined; salt; soap; starch; shooks, staves, and headings; tobacco, whether in leaf or manufactured; textile manufactures, made of a combination of wool, cotton, silk, or linen, or of any two or more of them other than when ready-made clothing; wool, and manufactures of wool, other than ready-made clothing; wagons and carts for the purposes of agriculture or of drayage; wood and manufactures of wood, or of wood and metal, except furniture either upholstered or carved, and carriages.

**LIST OF ARTICLES ADMITTED INTO THE UNITED STATES FREE OF DUTY
from the Hawaiian Islands when properly certified to before the U. S. Consul.**

Arrow-root; bananas; castor-oil; nuts; hides and skins, undressed; pulu; rice; seeds; plants, shrubs or trees; muscovado, brown, and all other unrefined sugar, commonly known as "Sandwich Island sugar;" syrups of sugar cane, melado and molasses; tallow; vegetables, dried and undried, preserved and unpreserved.

MOON'S PHASES.

	D.	H.	M.
First Quarter.....	6	9.49.0	PM
Full Moon.....	14	0.23.6	AM
Last Quarter.....	22	1.44.8	AM
New Moon.....	29	11.09.3	AM

DAY OF M'TH.	DAY OF WEEK	SUN RISES		H. M.	H. M.	HAWAIIAN CHRONOLOGICAL EVENTS
		H. M.	H. M.			
1	Mo	5.25.5	6.41.5			First issue of P C Advertiser 1856 [joins the Hawn Govt 1857
2	Tu	5.25.8	6.41.5			First meeting house dedicated in Honolulu 1828; Rev Wm Richards
3	We	5.26.1	6.41.6			
4	Th	5.26.5	6.41.6			First celebration of American Independence observed in Honolulu
5	Fr	5.26.8	6.41.7			1822; Haiku water works opened 1877
6	Sa	5.27.1	6.41.7			French Catholic Mission arrived 1827; Varieties Theatre burnt down
7	SUN	5.27.5	6.41.8			1855; Convention to amend the Constitution opened 1864
8	Mo	5.27.8	6.41.8			Kamamalu, Consort to Kamehameha II died in London 1824
9	Tu	5.28.2	6.41.7			L'Artemise, Captain La Place, arrived 1839
10	We	5.28.6	6.41.6			Du Petit Thouars in the Venus visited the Islands 1837
11	Th	5.29.0	6.41.5			Heavy earthquake shock throughout the Islands 1849
12	Fr	5.29.4	6.41.3			[levies an indemnity of \$20,000 on behalf of French Governm't
13	Sa	5.29.9	6.41.1			Kamehameha II died in London '24; Dr G P Judd died '73; La Place
14	SUN	5.30.3	6.40.9			The Convention papers first issued 1864
15	Mo	5.30.7	6.40.7			11th company of missionaries arrive 1844; Schr Caroline with first
16	Tu	5.31.0	6.40.5			missionaries for Micronesia sailed 1852
17	We	5.31.4	6.40.3			Corner stone of Queen's Hospital laid 1800
18	Th	5.31.7	6.40.1			Richards and Haalillo, Comrs to U States, England and France
19	Fr	5.32.0	6.39.9			embark for Mazatlan '42; John Young—Keoni Ana—died '67
20	Sa	5.32.4	6.39.7			Treaty with the Swiss Confederation signed 1864
21	SUN	5.32.8	6.39.5			Kawaiahae Church finished 1824; Arrival of Alfred Ernest, H R H
22	Mo	5.33.2	6.39.2			Duke of Edinburgh in H B M S Galatea 1869; Treaty with
23	Tu	5.33.6	6.38.8			Telegraph from Haiku to Makawao opened '71 [Italy signed '63
24	We	5.34.0	6.38.4			Du Petit Thouars made a Treaty in behalf of Louis Phillippe with
25	Th	5.34.5	6.37.9			Kamehameha III 1837; Jules Dudoit first French Consul
26	Fr	5.34.9	6.37.5			Rear Admiral Thomas arrived '43 [appointed at the Islands '37
27	Sa	5.35.3	6.37.1			
28	SUN	5.35.8	6.36.7			Robbery of Custom House 1858
29	Mo	5.36.2	6.36.2			[Island postage established 1859
30	Tu	5.36.5	6.35.7			H B M S Providence visits Niihau; massacre of marines 1796; Inter-
31	We	5.36.9	6.35.2			Islands restored by Admr Thomas '43; Cor stone Sailor's Home laid '55

THE SHIP *Resolution* in which Capt. Cook visited these islands, one hundred years since, was, when last heard from, in the merchant service, plying between England and the West Indies. The *Friend* of Nov. 1877 informs us that the brig *Brotherly Love*, in which Capt. Cook served his time and obtained his certificate as mate, is still doing good service in the merchant service between Shields, Eng., and ports on the Baltic.

HAWAIIAN ISLANDS POSTAL SERVICE.

General Post Office, Honolulu, Oahu..... { A. P. Brickwood, P. M. G.
 { I. B. Peterson, Assistant.
 Waialua, Oahu..... Edward Hore, P. M.

OVERLAND MAIL ROUTE.

Leaves Honolulu at 10 a. m. on Monday, each week, for the circuit of the island, arriving back Wednesday morning.

POSTMASTERS ON MAUI, MOLOKAI AND LANAI.

Lahaina.....	T W Everett	Ulupalakua.....	J Makee
Wailuku.....	W F Mossman	Haiku.....	S T Alexander
Waihee.....	T H Paris	Kahului.....	S Mendez
Makawao.....	W L Davis	Kaunakakai.....	R W Meyer
Hana.....	A Unna	Kaluaaha.....	R Newton

OVERLAND MAIL ROUTES, MAUI.

From Lahaina to Wailuku, Kahului, Makawao, Haiku and Ulupalakua, weekly—on Tuesdays or Wednesdays.

From Ulupalakua to Hana, every two weeks.

From Haiku to Hana, every two weeks—on alternate weeks.

POSTMASTERS ON HAWAII.

Hilo.....	L Severance	Kailua.....	H Cooper
Kawaihae.....	C E Stackpole	Kealahou.....	H N Greenwell
Waimea.....	L Lyons	Keaiwa.....	G W Willfong
Kohala.....	J Wight	Waiohinu.....	C Menecke

OVERLAND MAIL ROUTES, HAWAII.

From Hilo to Kawaihae, leaves weekly, on Monday.

From Hilo to Kau, leaves weekly, on Monday.

From Kau to Kona, leaves weekly on arrival of Hilo carrier.

From Kawaihae to Kona, leaves on arrival of steamer Likelike.

This Mail Service around Hawaii is intended to be a *weekly* service of the circuit of the island.

POSTMASTERS ON KAUAI.

Lihue.....	P Isenberg	Waimea.....	S P Handchett
Koloa.....	F Bindt	Hanalei.....	A Conradt
Kilauea.....			J Ross

OVERLAND MAIL ROUTES, KAUAI.

Leaves Lihue for Hanalei on Monday; Koloa and Waimea Thursday

AREA, ELEVATION AND POPULATION OF THE HAWAIIAN ISLANDS.

	<i>Areas in stat. sq. miles.</i>	<i>Acres.</i>	<i>Height in feet.</i>	<i>Population</i>
Hawaii.....	4,210	2,500,000	13,805	16,001
Maui.....	760	400,000	10,032	12,334
Oahu.....	600	350,000	4,060	20,681
Kauai.....	590	350,000	4,800	4,961
Molokai.....	270	200,000	2,800	2,349
Lanai.....	150	100,000	2,000	348
Niihau.....	97	70,000	800	233
Kahoolawe.....	63	30,000	400	

MOON'S PHASES.

	D.	H. M.
First Quarter.....	5	2.48.1 AM
Full Moon.....	12	1.44.9 PM
Last Quarter.....	20	5.36.6 PM
New Moon.....	27	6.28.2 PM

DAY OF M' TH	DAY OF WEEK	H. M.		HAWAIIAN CHRONOLOGICAL EVENTS
		RISE	SETS	
1	Th	5.37.3	6.34.7	
2	Fr	5.37.7	6.34.2	Light-house at entrance of Honolulu lighted 1869
3	Sa	5.38.0	6.33.7	Rev H Bingham and family returned to the United States 1840; Bees introduced from Boston 1853 by the Mataukaa
4	SUN	5.38.4	6.33.2	
5	Mo	5.38.8	6.32.8	
6	Tu	5.39.1	6.32.3	
7	We	5.39.4	6.31.8	
8	Th	5.39.7	6.31.2	Kauai rebellion quelled 1824
9	Fr	5.40.0	6.30.6	
10	Sa	5.40.3	6.29.0	[Mauna Loa with flow threatening Hilo 1855
11	SUN	5.40.5	6.29.4	First Christian marriage celebrated at the islands 1822; Eruption of Hawaiian Agricultural Society formed 1850
12	Mo	5.40.8	6.28.8	Convention dissolved by K V 1864 and Constitution of '52 abrogated
13	Tu	5.41.1	6.28.0	Haw'n stmr Likelike fm San Fran arrived 1877 for coasting service
14	We	5.41.4	6.27.3	(14) Reciprocity Treaty with the United States ratified by the Senate 1876
15	Th	5.41.8	6.26.5	
16	Fr	5.42.2	6.25.7	
17	Sa	5.42.6	6.24.9	
18	SUN	5.43.0	6.24.1	Commencement of base line of government survey 1871
19	Mo	5.43.4	6.23.4	Treaty with the U States ratified '50; Treaty with Japan signed '71
20	Tu	5.43.7	6.22.7	New Constitution granted by Kamehameha V 1864
21	We	5.43.9	6.21.9	Centrifugal sugar dryers first used at East Maui Plantation 1851
22	Th	5.44.2	6.21.2	Departure of Rev Mr Ellis and companions for Tahiti 1822
23	Fr	5.44.5	6.20.5	French corvette Embuscade arrived at Honolulu 1842
24	Sa	5.44.7	6.19.7	
25	SUN	5.44.9	6.18.9	Seizure of the Hawaiian Islands by Admiral Tromelin for alleged violation of French Treaty 1849
26	Mo	5.45.3	6.18.0	Death of the Prince of Hawaii 1862
27	Tu	5.45.7	6.17.0	
28	We	5.46.0	6.16.1	
29	Th	5.46.4	6.15.1	Prince Lot sailed for California 1860
30	Fr	5.46.8	6.14.2	Dismantling of the fort at Honolulu by the French discontinued 1849
31	Sa	5.47.2	6.13.2	Last number of The Convention papers 1864

ELECTRIC TELEGRAPH.—Maui bids fair to obtain the palm for enterprise, for, following immediately upon the success of opening up the Haiku ditch, whereby the waste streams of Hamakua are brought in to water the fields and plains of Haiku and Makawao, a company is formed to establish a line of telegraph connecting Lahaina, Wailuku, Makawao and Haiku. Messrs. C. H. Dickey and C. H. Wallace—old telegraph operators—are the prime movers in what we hope will prove an eminent success.

LATITUDES AND LONGITUDES,
As Adopted by the Hawaiian Government Survey.

	LATITUDE.	LONGITUDES.
Honolulu, *Flitner's observatory.....	21° 18' 23"	157° 48' 45"
“ †Transit of Venus observatory	21° 17' 55".87	157° 48' 29"
“ Light-house	21° 17' 57".06	157° 49' 10"
Diamond Head summit.....	21° 15' 23".15	157° 45' 49".32
Tantalus, or Puu Ohia.....	21° 19' 45".75	157° 46' 00".37
Makapuu station, (E. point of Oahu)....	21° 18' 18".85	157° 36' 17".31
Mokapu station, Kaneohe.....	21° 27' 03".76	157° 41' 01".82
Kahuku Point, (N. E. point of Oahu)....	21° 42' 22".17	157° 55' 56".93
Barber's Poin, Laeoa beach.....	21° 17' 33"	158° 03' 30"
Puuloa, (windmill).....	21° 19' 14".40	157° 55' 22".79
Kaena Point, N. W. point of Oahu).....	21° 34' 16".65	158° 13' 52".62
Haleakala, station on summit.....	20° 43' 21".16	156° 13' 11".13
Round Hill at Haiku, Maui.....	20° 55' 43".67	156° 18' 04".92
Kahakuloa Point station.....	21° 00' 35".78	156° 30' 55".27
Puu Io, near Capt. Makee's.....	20° 40' 52".07	156° 21' 10".65
Kahoolawe summit.....	20° 34' 23".61	156° 33' 20".58
Mauna Kea, station on summit.....	19° 49' 57".08	155° 26' 51"
Hualalal, do., (approx.).....	19° 42' 00"	155° 50' 40"
Kawaihae light-house.....	20° 03' 00"	155° 48' 20"

*The above given Latitude and Longitude of Flitner's Observatory is from combined observations of C. S. Lyman, M. Fleurrier and Capt. Daniel Smith, and is taken as an initial point for all the Latitudes and Longitudes of the Island Triangulation. The Maui and Hawaii Longitudes, while agreeing with each other, have only been connected with Oahu by chronometer and not by triangle.

†According to Captain Tupman.

COMPARATIVE TABLE OF POPULATION OF HAWAIIAN ISLANDS.

<i>Islands.</i>	<i>Est. 1823.</i>	<i>cen. 1832.</i>	<i>cen. 1836.</i>	<i>cen. 1853.</i>	<i>cen. 1860.</i>	<i>cen. 1866.</i>	<i>cen. 1872</i>
Hawaii.....	85,000	45,792	39,364	24,450	21,481	19,808	16,001
Maui.....	20,000	35,062	24,199	17,574	16,400	14,035	12,334
Oahu.....	20,000	29,755	27,809	19,126	21,275	19,799	20,671
Kauai.....	10,000	10,977	8,934	6,991	6,487	6,299	4,961
Molokai.....	3,500	6,000	6,000	3,607	2,864	2,299	2,349
Lanai.....	2,500	1,600	1,200	600	646	394	348
Niihau.....	1,000	1,047	993	790	647	325	233
Kahoolawe... ..	50	80	80	.....	.....	.....	.....
Totals....	142,050	130,313	108,579	73,138	69,800	62,959	56,897

Captain Cook estimated the population of the Islands in 1779 to be 400,000, though early settlers considered this by far too high. Evidences exist, however, in the miles of fish pond enclosures, auwais—*water courses*,—kuuanas—*kalo patch divisions*,—heiaus—*temples*,—&c. to indicate these Islands as having been thickly peopled.

MOON'S PHASES.		D.	H. M.
First Quarter.....		3	9.54.6 AM
Full Moon.....		11	5.19.0 AM
Last Quarter.....		19	7.59.1 AM
New Moon.....		26	3.39.1 AM

DAY OF M TH .	DAY OF WEEK	H. M. SUN RISES		H. M. SUN SETS		HAWAIIAN CHRONOLOGICAL EVENTS
		H. M.	H. M.	H. M.	H. M.	
1	SUN	5.47.5	6.12.3	Sailors' Home opened 1856	[kacha born 1836	
2	Mo	5.47.7	6.11.4	Gas light first introduced in Honolulu 1859; Princess Lydia Kama-		
3	Tu	5.48.0	6.10.5	(4) Yacht Kamehameha III sent to Tahiti by Admiral Tromelin 1849		
4	We	5.48.2	6.09.6	First issue of The Daily Herald 1866		
5	Th	5.48.5	6.08.7	Stmr Kilauea arrived to enter the coasting service 1860; Departure		
6	Fr	5.48.7	6.07.8	of Admiral de Tromelin and M Dillon 1849		
7	Sa	5.48.9	6.06.9	Emeute at the Barracks 1873		
8	SUN	5.49.2	6.06.0	Treaty with France ratified 1858		
9	Mo	5.49.4	6.05.1	Return of Princes Liholiho and Lot fm the U States 1850; Wm Pitt		
10	Tu	5.49.6	6.04.2	Kinau died '59 [accompanied by Dr Judd embark for U S '49		
11	We	5.49.8	6.03.3	First theatre (The Thespian) opened 1847; Princess Liholiho and Lot		
12	Th	5.50.0	6.02.4	Abolition of the army by royal command 1873; Varieties Theatre		
13	Fr	5.50.3	6.01.5	opened 1853		
14	Sa	5.50.5	6.00.5	News of loss of the Arctic fleet (33 vessels) received 1871		
15	SUN	5.50.7	5.59.6	First house of Christian worship at Honolulu erected 1821; Bennett's		
16	Mo	5.50.9	5.58.7	Keopuolani, queen mother, died at Lahaina '23 [Own appeared '69		
17	Tu	5.51.2	5.57.7	Duhant-Cillecy, a French voyager, visited the islands 1828		
18	We	5.51.4	5.56.8	First cargo ex Cyane fm U States under the Reciprocity Treaty '76		
19	Th	5.51.6	5.55.9			
20	Fr	5.51.8	5.55.0			
21	Sa	5.52.0	5.54.0	Tenth company of missionaries arrive 1842		
22	SUN	5.52.2	5.53.1	First oranges gathered, recorded in Maria's Journal 1810		
23	Mo	5.52.5	5.52.2	Rev Dr Armstrong died 1860		
24	Tu	5.52.7	5.51.3	U S Exploring Expedition arrived at the islands 1840		
25	We	5.53.0	5.50.4	Shower of meteoric stones at Honolulu 1825		
26	Th	5.53.2	5.49.5			
27	Fr	5.53.4	5.48.6			
28	Sa	5.53.6	5.47.6	Seamen's riot with police 1846		
29	SUN	5.54.0	5.46.6			
30	Mo	5.54.3	5.45.7	Seal of State for Kamehameha III executed in Boston 1844		

HAWAII'S REVENUE.—The revenue of this government was never greater than the present year (1877) with its increased imports, income from stamp duties, increased property tax and increase of taxes through the enhanced value of real estate, and now, to cap the climax, we are privileged to enjoy (?) double taxation according to the decision of the Court—rendered October 23, 1877—whereby mortgager and mortgagee pay taxes on the same note. Stock concerns are taxed and shareholders also have to pay taxes on their shares in same.

CENSUS OF THE HAWAIIAN ISLANDS TAKEN DECEMBER 27, 1872,
BY PRINCIPAL TOWNSHIPS.

NATIONALITIES.	Honolulu, Oahu.	Hilo, Hawaii.	Wailuku, Maui.	Lahaina, Maui.	Waimea, Kauai.
Natives.....	11,210	3,587	3,443	2,547	1,220
Half-castes.....	1,013	162	210	110	12
Foreigners.....	2,620	531	407	345	37
Totals.....	14,852	4,280	4,060	3,002	1,269
<i>Nationality & sex of above table :</i>					
Native, males.....	5,776	2,065	1,820	1,402	642
Native, females.....	5,434	1,522	1,623	1,145	578
Half-caste, males.....	440	84	117	41	6
Half-caste, females.....	573	78	93	69	6
Chinese, males.....	591	352	154	89	15
Chinese, females.....	41	16	5	1	...
Haw. born of for. parents, males	240	24	32	43	3
Haw. born of for. parents, females	290	29	23	31	4
American, males.....	372	25	66	42	2
American, females.....	178	10	21	7	1
British, males.....	240	19	25	33	5
British, females.....	141	3	6	4	5
German, male.....	108	7	3	7	1
German, females.....	42	1	...	1	...
French, males.....	29	3	5	5	...
French, females.....	17	...	2	...	...
Portugese, males.....	198	9	21	27	...
Portugese, females.....	24	...	...	3	...
Other foreigners, males.....	106	33	43	52	1
Other foreigners, females.....	12	...	1	...	...
Totals.....	14,852	4,280	4,060	3,002	1,269

BY DISTRICTS.

HAWAII.	Hilo.....	4,280	MOLOKAI.....	2,349		
	Puna.....	1,228		LANAI.....	348	
	Kau.....	1,865		NIHAU.....	233	
	Kona, North.....	2,218		OAHU. { Honolulu, Kona.....	14,852	
	Kona, South.....	1,916			{ Ewa & Waianae.....	1,671
	Kohala, North.....	2,086			{ Waiialua.....	861
	Kohala, South.....	892			{ Koolauloa.....	1,269
Hamakua.....	1,516	{ Koolaupoko.....	2,028			
	16,001		20,681			
MAUI.	Lahaina.....	3,002	KAUAI. { Waimea.....	1,269		
	Wailuku.....	4,060		{ Koloa.....	833	
	Hana.....	2,760		{ Puna.....	1,301	
	Makawao.....	2,512		{ Koolau & Hanalei.....	1,558	
	12,334		4,961			

BY NATIONALITY.

Natives.....	49,044	Britons.....	619
Half-castes.....	2,487	Portuguese.....	395
Chinese.....	1,938	Germans.....	224
Americans.....	889	French.....	88
Haw'n born of for. parents...	849	Other foreigners.....	364
			—56,897

Tenth Month.

OCTOBER, 1878.

31 Days

MOON'S PHASES.		D.	H. M.
First Quarter.....		2	8.29.9 PM
Full Moon.....		10	10.23.0 PM
Last Quarter.....		18	8.38.7 PM
New Moon.....		25	0.27.3 PM

DAY OF M TH .	DAY OF WEEK	SUN RISES		HAWAIIAN CHRONOLOGICAL EVENTS
		H. M.	H. M.	
1	Tu	5.54.7	5.44.7	Hawaiian postage stamps first issued 1861
2	We	5.54.9	5.43.8	
3	Th	5.55.2	5.42.9	
4	Fr	5.55.4	5.42.0	Treaty with Belgium signed 1862
5	Sa	5.55.7	5.41.1	
6	SUN	5.55.9	5.40.3	
7	Mo	5.56.2	5.39.4	Insurrection of Kaonaites on Hawaii; Murder of Sheriff Neville 1863
8	Tu	5.56.4	5.38.5	Kamehameha III gives the first written Constitution to his people '40
9	We	5.56.7	5.37.6	Treaty with Spain signed 1863; Reciprocity Treaty with U S ratified '76; Kaahumanu & Kaunuaalii, king of Kauai married '21
10	Th	5.57.1	5.36.8	Reformed Catholic Church mission arrived 1862
11	Fr	5.57.4	5.36.0	Honolulu street names fixed by Privy Council 1850; Import duties increased to 25 per cent 1877
12	Sa	5.57.8	5.35.2	Stmr Sea Bird arrived to enter the coasting service 1854
13	SUN	5.58.1	5.34.4	
14	Mo	5.58.4	5.33.6	Treaty with the Netherlands signed 1862
15	Tu	5.58.8	5.32.8	First telegraph line (private) in operation at Honolulu (Eckart's) '72
16	We	5.59.3	5.32.0	(19) Treaty with Denmark signed 1846; R C Wylie, Minister of Foreign Affairs died '65; Departure of Hons E H Allen and H A P Carter to renew negotiations for a Reciprocity Treaty with U S '74
17	Th	5.59.7	5.31.1	Departure of Queen Dowager Emma for England and U S '65; Schr Return of Queen Emma 1866 [Missionary Packet arrived '20]
18	Fr	6.00.2	5.30.2	Brig Thaddeus sail fm Boston with first missionaries for the is'lds '19
19	Sa	6.00.6	5.29.3	Stmr West Point arrived to enter the coasting service 1854
20	SUN	6.01.1	5.28.4	
21	Mo	6.01.5	5.27.5	First effort for Reciprocity Treaty with U States '48 thro' J J Jarvis
22	Tu	6.01.8	5.26.9	
23	We	6.02.2	5.26.4	Hawaiian Caledonian Club organized 1876
24	Th	6.02.5	5.25.9	Loss of U S S Saginaw on Ocean Island 1870
25	Fr	6.02.9	5.25.4	
26	Sa	6.03.2	5.24.9	
27	SUN	6.03.5	5.24.4	
28	Mo	6.03.9	5.23.9	
29	Tu	6.04.6	5.23.1	
30	We	6.05.3	5.22.3	
31	Th	6.06.0	5.21.5	Brig Arthur lost on Barber's Point 1796

*Schooner Missionary Packet, Jas Hunnewell, master, left Boston January 18, 1826; she was but 49 feet long, 13 feet beam, measuring less than 40 tons, and was owned by the A B O F M. Captain Hunnewell engaged to bring her out free of charge for his services, for the privilege of bringing with him forty bbls of merchandise, with which he commenced business in Honolulu and founded the now large and long prosperous house of C Brewer & Co. The vessel was afterwards sold here to the French mission, and was wrecked on her first voyage to some of the South Sea Islands.

**TABLE of ELEVATIONS of PRINCIPAL LOCALITIES THROUGHOUT the ISLANDS,
As Furnished from the Records of the Government Survey, Corrected for this
Centennial Issue. The Measurements are from Mean Sea Level.**

OAHU.

	FEET		FEET
Kaala.....	4060	Makapuu, east pt of Island	665
Palikey, Waianae M'nts....	3110	Station on do.....	642
Puu Kaua, Waianae Mnts	3105	Ulamao, hill in Kailua.....	991
Konahuanui Peak, Pali.....	3105.5	Maelieli, do., in Heeia.....	713
Lanihuli Peak, Pali.....	2775	Round Top, (Ualakaa).....	1052
Tantalus, or Puu Ohia.....	2013.5	Diamond Head, or Leahi...	761
Olomana Peak, in Kailua..	1643	Telegraph Stn, (Kaimuki)	292
Koko Head, upper crater...	1205	Punchbowl Hill.....	498.5
Koko Head, lower crater...	644	Salt Lake Station.....	485
Nuuanu Pali station.....	1207	Second Bidge, Nuuanu r'd	77
Mokapu, cr'tr off Kaneohe	696	Light House, top of vane...	37
Station on do.....	680	*Salt Lake, mean level.....	0.0
Average of High Peaks on Konahuanui Range, (about).....			2800
Little Bridge front of Queen Kalama's, Nuuanu Road.....			847
Punahou, (verandah floors old building).....			79.6

MAUI.

	FEET		FEET
Haleakala.....	10032	Haleakala School (Clarke's)	2150
West Maui, about.....	5820	Puu Niania, Makawao.....	6850
Piiholo, Makawao.....	2256	Puu Kapuai, Hamakua.....	1150
Puu Io, near Capt. Makee's..	2841	Puu o Umi, Haiku.....	629
Capt. Makee's, about.....	1900	Puu Pane, Kula.....	2568
Makawao Female Seminary	1900	Lahainaluna Seminary	600
Mobron's Makawao.....	981		

HAWAII.

	FEET		FEET
Mauna Kea.....	13805	Waipio Pali, W. side at sea...	1200
Mauna Loa, about.....	13600	Waipio among the Mountains	3000
Hualalai.....	8275	Waimanu among Mountains	4000
Kohala Mountain.....	5505	Waimanu at sea.....	1600
Kilauea, about.....	3800	Average road through Hama- kua.....	1000
Falls of Hiilawe, Waipio...	1700	Honokaa Store.....	1100
Waimea Court House.....	2669.6	Maulua.....	500
Sea coast bluffs bet. Waipio and Waimanu, N. coast...	1600	Lower edge forest Hamakua...	1700
Kalaieha, about.....	6450	Lower edge forest Hilo.....	1200
Waipio Pali, E. side at sea..	900	Average Hilo Bluffs.....	275
KAUAI —Waialeale, highest point, between 5 and.....			6000
MOLOKAI —About.....			3000
LANAI —Estimated.....			2000
KAHOOLAWE —About.....			1130

*In the salt-making season it is from 1 to 2 feet below sea level; in the rainy season it sometimes rises to 4 feet above do.

MOON'S PHASES.

	D.	H.	M.
First Quarter.....	1	11.19.4	AM
Full Moon.....	9	4.2.7	PM
Last Quarter.....	17	7.27.2	AM
New Moon.....	23	10.39.4	PM

DAY OF M'TH.	DAY OF WEEK	SUN RISES		HAWAIIAN CHRONOLOGICAL EVENTS
		H. M.	H. M.	
1	Fr	6.06.7	5.20.7	Princess Victoria Kamamalu born 1838
2	Sa	6.07.2	5.20.3	Boarding school buildings at Hilo burned 1863
3	SUN	6.07.6	5.19.9	
4	Mo	6.08.0	5.19.5	Kapiolani Park Association organized 1876
5	Tu	6.08.5	5.19.1	
6	We	6.08.9	5.18.7	First fire engine ("Honolulu") was initiated into service 1850
7	Th	6.09.4	5.18.3	Tidal wave thro'out the isl'ds '37, doing great damage with loss of life at Hilo & Kahului; Mr Richards, Minister of Pub Instr died '47
8	Fr	6.09.9	5.17.9	Seamen's riot on acc't of accidental death of a sailor in the Fort 1852
9	Sa	6.10.6	5.17.4	Station-house and harbor-master's office burned by the rioters 1852
10	SUN	6.11.3	5.17.0	
11	Mo	6.12.0	5.16.5	
12	Tu	6.12.7	5.16.1	
13	We	6.13.4	5.15.6	
14	Th	6.14.1	5.15.2	First stmr (S H Wheeler) arrived to enter the coasting trade 1863
15	Fr	6.14.7	5.14.7	
16	Sa	6.15.2	5.14.6	H M Kalakaua born '36; English Treaty of Lord Russell signed 1836
17	SUN	6.15.7	5.14.5	Departure of H M Kalakaua for the U S in the Benicia 1874; First volunteer company (Hawaiian Guards) organized 1852
18	Mo	6.16.2	5.14.4	
19	Tu	6.16.7	5.14.4	
20	We	6.17.2	5.14.3	
21	Th	6.17.7	5.14.3	Kotzebue visits Hawaii in the Rurick 1816; Discovery of Honolulu harbor by Capt Brown 1794
22	Fr	6.18.2	5.14.2	
23	Sa	6.18.8	5.14.2	
24	SUN	6.19.5	5.14.2	Seamen's Bethel at Honolulu dedicated 1833; Ladd & Co's contract Postal convention with Tahiti signed 1853 [signed at Lahaina '41
25	Mo	6.20.2	5.14.2	Mau discovered by Capt Cook 1778
26	Tu	6.20.9	5.14.1	Kamehameha II and consort Kamamalu sail for England 1823
27	We	6.21.6	5.14.1	Independence of the Hawaiian Islands recognized by England and France 1844
28	Th	6.22.1	5.14.1	
29	Fr	6.22.8	5.14.1	
30	Sa	6.23.5	5.14.2	Kamehameha IV died 1863

DISCOVERY OF HONOLULU HARBOR.—It has been generally acknowledged that Capt. Brown of the English ship *Butterworth*—or of its tender, *Jackall*—was the first discoverer of our harbor, which he called Fairhaven, and that the *Jackall* and *Prince Le Boo* were the first vessels to enter it. Jarvis sets this down as Jan. 1st, 1795, but the late W. H. Pease in his researches gives the date of discovery as Nov. 21, 1794. Both Capt. Brown and Capt. Gardner and most of the crew were killed and the vessels taken, but they were afterward retaken from the natives by the mates and their remaining crews on a voyage to Hawaii, Jan. 12, 1795.

HAWAIIAN REGISTERED VESSELS.
MERCHANTMEN, WHALERS AND TRADERS.

REGISTER	CLASS	NAME	TONS	REGISTERED OWNERS
93	new	Bark R C Wylie.....	557 83.95	H Hackfeld
111	"	Bgtne W H Allen.....	157 39.95	Jas I Dowsett
125	"	Brig Onward.....	189 23.95	Jas I Dowsett
126	"	Bark Ka Moi.....	573 54.95	H Hackfeld
146	"	Bark Courier.....	337 60.95	H Hackfeld
149	"	Schr Giovanni Apiani.....	85 92.95	Chas Long
150	"	Bark Kale.....	867 73.95	H Hackfeld
153	"	Bark Lunailo.....	610 20.95	Chas K Clark
154	"	Bark Mattie Macleay.....	308 65.95	Jas I Dowsett
157	"	Schr Avatcha.....	75 65.95	P C Jones, jr
164	"	Bgtne Pomare.....	220 45.95	Jas I Dowsett
168	"	Brig Julia M Avery.....	178 11.85	Chas K Clark
172	"	Ship Surprise.....	722 11.95	Chas K Clark
173	"	Brig Elise.....	312 77.95	Chas K Clark
175	"	Bark Iolani.....	924 76.95	H Hackfeld

COASTERS.

REGISTER	CLASS	NAME	TONS	REGISTERED OWNERS
170	new	Schr Kulamano.....	96 34.95	Allen & Robinson and C M Cooke
166	"	Schr Nettie Merrill.....	158 77.95	Henry Turton
174	"	Schr Catarina Apiani Long..	43 86.95	Chas Long
171	old	Schr Manuokawai.....	51 45.95	Thos R Foster
139	new	Schr Henrietta.....	4 58.95	Jas I Dowsett
173	"	Schr Kekauluohi.....	53 89.95	Allen & Robinson
127	"	Schr Marion.....	105 49.95	Thos R Foster
23	"	Schr Kamaile.....	80	Jno H Paty
169	"	Schr Kate.....	22 4.95	Walter Bates
153	"	Schr Ka Moi.....	154 16.95	T H Hobron
101	"	Schr Annie.....	70 93.95	T R Foster and J Brown
130	"	Schr Keoni Ana.....	26 42.95	Chas Long
131	"	Schr Pauahi.....	111 28.95	M P Robinson and Afong & Achuck
69	"	Sloop Waialele.....	15 36.95	Ipuhao (w)
161	"	Schr Kapiolani.....	10 78.95	H Grube
68	"	Schr Prince.....	85 41.95	T R Foster
115	"	Schr Warwick.....	23 29.95	Jacob Brown
162	"	Schr Kapueokahi.....	53 42.95	Thos K Clark
177	"	Stmr Likeliko.....	696 58.95	Sam'l G Wilder
179	"	Schr Leahi.....	103 28.95	Allen & Robinson
190	"	Schr Waialele.....	75 85.95	Cooke, Alexander, Wilcox & Wilcox
129	"	Schr Jenny.....	63 4.95	T R Foster and J Brown, trustees
28	"	Sloop Live Yankee.....	32 31.95	Jas I Dowsett
131	"	Stmr Robbie.....	13 45.95	Geo C McLean
41	"	Schr Rob Roy.....	25 39.95	Jas I Dowsett
76	"	Schr Mary Eilen.....	74 80.95	M P Robinson
133	"	Schr Juanita.....	30 85.95	A Frank Cooke, W L Wilcox, Geo P Castle
132	"	Sloop Kulamano.....	8 24.95	M P Robinson
165	"	Sloop Hae Hawaii.....	6 18.95	E Kahaemake
116	"	Schr Fairy Queen.....	63 37.95	M P Robinson
145	"	Schr Kauiki.....	7 64.95	Jas I Dowsett
155	"	Schr Mile Morris.....	22 32.95	Jas I Dowsett
142	"	Schr Uihama.....	73	H M Allen
117	"	Schr Kinau.....	41 69.95	Jas I Dowsett
49	"	Sloop Waimalu.....	21 13.95	J McColgan
133	"	Schr Balakala.....	116 75.95	Allen & Robinson and C Afong
194	"	Schr Fanny.....	76 17.95	Wm H Reid
155	"	Schr Mary E Foster.....	116 6.95	Thos R Foster

RESUME OF HAWAIIAN REGISTERED VESSELS.

NO.	CLASS	TONS	NO.	CLASS	TONS
1	Ship.....	722 11.95	2	Steamers.....	610 8.95
7	Barks.....	4,100 51.95	32	Schooners.....	2,713 72.95
3	Brigs.....	680 15.95	5	Sloops.....	83 27.95
2	Brigantines.....	357 84.95			

MOON'S PHASES.

	D.	H. M.
First Quarter.....	1	6. 6.2 AM
Full Moon.....	9	9.18.6 AM
Last Quarter.....	16	4.32.7 PM
New Moon.....	23	10.53.3 AM
First Quarter.....	31	3.25.7 AM

DAY OF M'TH.	DAY OF WEEK	SUN RISES		HAWAIIAN CHRONOLOGICAL EVENTS
		H. M.	H. M.	
1	SUN	6.24.3	5.14.2	Hawaii discovered by Capt Cook on his return from NW Coast 1778
2	Mo	6.25.1	5.14.2	Departure of Boki and party on a sandal-wood expedition 1828
3	Tu	6.25.9	5.14.2	Commissioner Haalilio died at sea 1844; Corner stone of Steam Flour Mill and Foundry laid 1853
4	We	6.26.7	5.14.3	
5	Th	6.27.5	5.14.3	
6	Fr	6.28.3	5.14.4	Fast day appointed by Kamehameha III on account of the measles 1848; New Constitution of Kamehameha III declared 1862
7	Sa	6.28.9	5.14.5	
8	SUN	6.29.5	6.14.7	Transit of Venus observed at various points of the islands 1874
9	Mo	6.30.1	5.15.0	John Adams Kuakini, Gov of Hawaii, died 1844
10	Tu	6.30.7	5.15.3	Excelsior Lodge, I O O F, instituted in Honolulu 1846
11	We	6.31.3	5.15.6	Kamehameha V born 1830, and died 1872
12	Th	6.31.9	5.16.0	
13	Fr	6.32.4	5.16.4	
14	Sa	6.32.9	5.16.9	Pacific Engine Co No 3 organized as a Hose Co 1853
15	SUN	6.33.4	5.17.4	Kamehameha III died 1854
16	Mo	6.33.9	5.17.9	
17	Tu	6.34.4	5.18.4	First volunteer cavalry company organized 1852
18	We	6.34.9	5.18.9	
19	Th	6.35.4	5.19.4	Boat's crew from wreck of Saginaw reaching Kaula capsized in the surf, W Halford sole survivor 1870
20	Fr	6.35.8	5.19.8	
21	Sa	6.36.3	5.20.3	
22	SUN	6.36.8	5.20.8	Post office first established by decree of Privy Council 1850
23	Mo	6.37.3	5.21.3	Treaty with United States signed 1826
24	Tu	6.37.8	5.21.8	First vessel towed in Honolulu harbor by steamer (Akamai) 1853
25	We	6.38.3	5.22.3	
26	Th	6.38.8	5.22.8	Departure of stmr Kilauea to rescue crew of U S S Saginaw 1870
27	Fr	6.39.3	5.23.3	Act to organize Honolulu Fire Dep't by Privy Council 1850
28	Sa	6.39.8	5.23.8	Fort St Church dedicated 1856
29	SUN	6.40.3	5.24.3	Honolulu Flour Mill and Foundry burned 1860
30	Mo	6.40.8	5.24.8	First coffee planted by Paulo Marin 1817; Princess Nahienaena
31	Tu	6.41.3	5.25.3	Her Majesty Queen Kapiolani born 1834 [died 1896]

MARINE TELEGRAPH.—The present system of telegraph signals for vessels approaching the port of Honolulu, was instituted during Postmaster Jackson's time in 1857, by subscription, and has been and is still maintained by a quarterly tax or subscription among those intimately connected with shipping and by the Post-office, under whose care and supervision it is conducted. Mr. G. C. McLean and the late Jas. Stewart are said to have devised the plan as most suitable for this port.

A COMPARATIVE TABLE of the LEADING IMPORTS of the HAWAIIAN ISLANDS.

	1872	1873	1874	1875	1876	
Ale, prtr, br, cdr..	\$ 29,783 94	\$ 14,977 32	\$ 25,491 72	\$ 32,826 59	19,792 34	
Animls & birds....	857 50	30 18	21 60	434 00	261 40	
Building mtrils...	29,479 96	15,807 12	16,186 14	31,016 91	21,596 39	
Clothg, hts, boots	170,415 13	144,756 99	151,612 01	168,377 61	176,188 41	
Crockry & Glsware	12,672 20	6,452 11	6,387 58	13,278 42	14,127 61	
Drugs & medicines	15,672 56	15,769 10	12,944 16	20,996 56	17,029 59	
Dry goods	Cottons... ..	153,234 27	154,307 50	120,458 25	163,464 54	167,451 47
	Linsens.....	11,685 06	7,600 94	8,054 82	12,322 25	9,163 62
	Silks.....	18,902 29	11,799 52	9,502 13	13,831 39	12,712 18
	Woolens.....	49,673 03	26,658 28	26,776 21	39,142 26	40,867 99
Mixtures.....	29,795 97	31,083 67	25,894 96	40,952 17	25,321 31	
Fy gds, miln'y, &c	45,150 06	30,855 83	34,676 55	44,776 31	53,118 81	
Fish (dry & salt)..	19,420 60	18,383 52	23,524 30	14,781 74	17,891 81	
Flour.....	53,031 74	46,026 42	61,722 78	55,930 57	54,907 89	
Fruits (fresh).....	2,120 11	1,909 47	2,333 33	2,232 00	2,030 97	
Furniture.....	22,775 50	12,974 47	14,956 77	19,082 52	27,662 93	
Furs and ivory....	738 50	2,642 78	13,506 62	15,540 95	2,696 73	
Grain and feed....	19,087 17	13,862 01	12,799 55	12,732 23	14,513 39	
Groceries & Prov'n	109,906 63	83,953 40	93,685 87	103,328 02	90,466 12	
Gun & gn materls	2,176 59	2,583 89	6,902 46	5,625 11	5,529 61	
Gun powder.....	1,786 06	1,431 90	1,446 90	1,180 41	2,714 35	
Hardwre, ag. im- plements & tools...	99,885 54	60,601 85	63,161,83	77,519 38	105,828 18	
Iron, steel, &c.....	20,561 77	7,748 95	23,260 81	18,075 88	20,878 35	
Jwlry, plte, cclks	20,822 98	12,617 32	19,951 59	15,856 16	24,032 41	
Leather.....	7,294 12	6,661 68	5,383 19	8,549 33	8,686 61	
Lumber.....	69,707 46	50,155 18	48,098 45	78,652 19	98,322 24	
Machinery.....	36,820 64	20,055 22	19,135 96	23,605 12	37,331 54	
Matches.....	6,677 69	5,647 04	9,370 52	11,089 40	5,513 83	
Musical instru....	5,632 96	2,834 38	2,141 68	4,764 53	8,492 94	
Naval stores.....	34,687 44	35,484 42	35,430 28	30,625 88	35,587 28	
Oils, (co'nut, ker. whale, &c.....)	133,487 10	140,665 86	44,396 13	47,177 71	78,681 18	
Opium.....	32,328 67	13,006 37	4,316 95	22,516 26	.....
Paint & paint oils	19,846 39	10,129 38	12,156 97	15,396 61	13,548 03	
Prfmry & toilt art	8,031 68	6,793 50	6,035 25	8,020 34	13,024 56	
Sadd'y, carrgs, &c	37,909 04	24,238 26	17,062 48	21,515 96	34,536 95	
Shooks & contrs	37,642 03	63,098 42	36,847 02	40,544 97	53,948 90	
Spirits.....	30,850 56	30,716 19	32,975 63	49,446 30	31,944 94	
Stationery & b'ks.	26,059 58	17,392 94	24,320 24	25,472 07	31,429 81	
Tea.....	8,572 05	7,669 69	4,137 07	10,292 92	7,228 22	
Tin and tinware...	5,186 45	3,165 52	1,430 35	3,637 56	5,914 87	
Tobacco, cigrs, &c	44,905 63	34,067 74	26,125 92	42,072 63	57,475 03	
Whale bone.....	32,203 50	67,304 45	34,782 84	41,095 08	38,134 50	
Wines (light).....	8,993 17	10,910 18	7,428 05	14,688 80	9,475 87	

ONE SET SPECIMEN HAWAIIAN POSTAGE STAMPS, UNUSED,

Of 1, 2, 2, 2, 5, 5, 6, 12, 13, and 18 Cents, mounted on Card, showing name of figures, denominations and time of issue, sent to any Address by registered mail for \$1.50. Remittances can be mailed in U. S. Currency. This gives a complete set of the "Bust" or engraved stamps, and can only be had of the undersigned. Address: THRUM & OAT, Stationers, &c., Honolulu, H. I.

☐ Letters of enquiry must include stamps for reply, or they will not be answered.

PASSENGER STATISTICS, PORT OF HONOLULU, 1876.

FROM AND TO	FROM		TO		SUMMARY
	Adults.	Children	Adults.	Children	
San Francisco.....	685	64	456	59	Total arrivals for the year..... 2891
Oregon and Washington Terr....	21	6	15	9	Total departures for the year..... 837
Australia and New Zealand.....	48	1	25	3	Excess of arrivals..... 2054
Islands in the Pacific.....	113	3	186	2	
China.....	1071	41	82	2	
European and other ports.....	838	..	..	..
Total.....	2776	115	764	73	

PASSENGERS IN TRANSITU

From Colonies for San Francisco.....	1474
From San Francisco for the Colonies.....	852

SELECTIONS FROM CUSTOM HOUSE TABLES FOR 1876.

Value of Goods paying duty imported at Honolulu, from

United States, Pacific Ports.....	\$675,533 65
United States, Atlantic Ports.....	13,199 46
Germany.....	199,184 96
Great Britain.....	60,550 47
China.....	48,347 63
Australia and New Zealand.....	37,930 56
Society Islands.....	401 61
Sea, by Whalers.....	..
Micronesia, Guano Islands, &c.....	563 87
British Columbia.....	14,926 34
	\$1,050,578 46

Value of Goods Including Spirits Bonded from

United States, Pacific Ports.....	\$ 74,470 75
United States, Atlantic Ports.....	8,203 13
Germany.....	15,359 27
Great Britain.....	22,600 13
China.....	2,969 25
Australia and New Zealand.....	5,589 61
Society Islands.....	1,770 17
Sea, by Whalers.....	30,338 52
Micronesia, Guano Islands &c.....	1,211 25
British Columbia.....	861 64
	\$163,612 72

Value of Goods Free from the United States by "Treaty."

United States Pacific Ports.....	\$256,007 63
United States Atlantic Ports.....	67,825 32
	\$343,830 95

Customs Receipts.

Import Duties Goods.....	\$110,582 74
Import Duties Spirits.....	53,699 44
Import Duties Bonded Goods.....	7,524 18
Blanks.....	4,755 50
Fees.....	1,627 75
Storage.....	3,946 08
Hospital Fund (passengers).....	2,012
M. H. Fund (seamen).....	929 55
Buoys.....	260
Coasting License.....	1,130 34
Lights.....	608 80
Passports.....	387
Interest.....	616
Wharfage.....	9,213 26
Fines and Forfeitures.....	1,481 07
Registry.....	89 75
Kerosene Storage.....	443 27
Honolulu.....	\$198,606 83
Hilo.....	373 67
Kawaihau.....	24 00
Kealakekua.....	9 00
Koloa.....	23 00
	429 57
Total 1876.....	\$199,036 40
Total, 1875.....	213,447 21
Decrease.....	\$ 14,410 81

Value Imported Free of Duty.

Animals and Birds.....	\$ 9,777 74
Bags and Containers (returned).....	20 44
Coal.....	21,700 97
Diplomatic Representatives.....	693 02
Foreign Navies.....	2,952 75
Hawaiian Whalers.....	15,642 96
His Majesty.....	646 35
Hawaiian Government.....	9,134 84
Iron, plate and pig.....	4,509 92
Person and Household Effects (old and in use).....	6,751 34
Plants and Seeds.....	227 81
Postage Stamps.....	2 00
Returned Cargo.....	163,057 87
Specie.....	\$107,125 29
Sheathing Metal.....	5,063 79
Sundries by permission.....	2,011 92
Tanning Materials.....	1,484 03
Tools of trade in use.....	3 30
Honolulu.....	\$247,135 24
Val. imported free at Hilo.....	\$253 79
" " " Kealakekua.....	128 00
" " " Koloa.....	413 53
	795 32
	\$247,930 56

TOTAL OF ALL IMPORTS, HAWAIIAN ISLANDS, 1876.

Value of Goods paying duties.....	\$1,050,578 45
Value Goods and Spirits bonded.....	163,612 72
Value Goods and Spirits imported free.....	247,135 24
Value Goods imported free by "Treaty".....	343,830 95
Value Goods imported at Hilo paying duties.....	3,330 70
Value Goods imported at Hilo bonded.....	2,427 18
Value Goods imported at Hilo free.....	253 79
Value Goods imported at Kealakekua free.....	128 00
Value Goods imported at Koloa free.....	413 53
Total.....	\$1,811,770 56

TOTAL OF ALL EXPORTS, HAWAIIAN ISLANDS, 1876.

Value Foreign Goods exported.....	\$ 185,908 36
Value Domestic Produce exported.....	1,094,833 55
Furnished supplies to Whalers, as per estimate.....	5,700 00
Furnished as supplies to Merchantmen, as per estimate.....	27,600 00
Furnished as supplies to National Vessels, as per estimate.....	25,000 00
All other ports—all vessels, cargoes and supplies, estimated.....	2,000 00
Total.....	\$2,241,041 91

TABLE OF PRINCIPAL DOMESTIC EXPORTS FOR 1876, PORT OF HONOLULU,
Showing the Country to which Exported.

	Pacific Ports, U States.....	Atlantic Ports, U States.....	Great Britain..	British Colum- bia.....	New Zealand & Australia.....	Tahiti.....	Guanos Islands..	China.....	All other Ports.	Total.....
Sugar, lbs.....	25,000,390	1,007	660	1,003,330	55,880	5,672	900	....	4,590	26,072,429
Molasses, galls.	118,377	144	....	15,839	2,215	470	1,728	....	300	139,073
Paddy, lbs.....	1,542,663	....	....	....	....	....	....	....	....	1,542,663
Rice, lbs.....	2,191,708	....	100	25,360	38,036	2,000	300	....	1,800	2,259,324
Coffee, lbs.....	142,566	1,500	982	2,018	6,351	....	....	....	250	153,667
Poi, bbls.....	....	....	....	....	....	....	587	....	39	626
Fungus, lbs.....	19,659	....	....	....	....	....	....	16,234	....	35,893
Bananas, bochs.	14,971	....	....	11	....	....	....	....	....	14,982
Goat Skins, pcs	45,265	....	....	....	....	....	....	....	....	45,265
Hides, pcs.....	789	5,051	5,285	....	....	....	....	....	....	11,105
Tallow, lbs.....	....	39,825	287,466	....	....	....	....	....	....	327,291
Fula, lbs.....	139,459	....	....	19,035	155,863	....	....	75	....	314,432
Wool, lbs.....	243,740	950	160,846	....	....	....	....	....	....	405,542
Peanuts, lbs.....	83,947	....	....	....	....	....	....	....	....	83,947
Whale Oil, galls	....	33,518	....	....	....	....	....	....	....	33,518
Whole Bone, lbs	23,965	....	....	....	....	....	....	....	....	23,965
Cattle, head....	....	....	....	....	....	828	....	....	....	828
Rum, galls.....	1,265	....	....	....	....	....	....	....	4,100	5,455
Betel Leaves, bx	163	....	....	....	....	....	....	....	....	163
Clay, tons.....	....	....	....	....	....	801	....	....	....	801
Horses, head....	....	....	....	....	....	....	....	....	....	2
Salt, tons.....	....	....	....	....	....	6	....	....	....	6

The ALMANAC AND ANNUAL is made up to November, to be issued in time for the December mails. All manuscripts, advertisements, or orders for coming editions should be sent to the publishers by October.

COMPARATIVE TABLE OF THE PRINCIPAL DOMESTIC EXPORTS, PORT OF HONOLULU, HAWAIIAN ISLANDS,
For the First, Second and Third Quarters 1877, Compared with the same Periods of 1876.

	SUGAR, lbs.....	Molasses, galls.	Pa'dy, lbs.....	Rice, lbs.....	Coffee, lbs.....	Malt, tons.....	Pot. tubs.....	Fungus, lbs.....	Bananas, bunchs	Goat Skins, pcs.	Hides, pcs.....	Calf Skins, pcs.	Tallow, lbs.....	Pulu, lbs.....	Wool, lbs.....	Whale Oil, galls	Rum, galls.....	Cattle, head.....	Birds, bxs	Peanuts, lbs.....	Total value of all domestic Exports.....
1st Quarter 1877	7,484,895	37,989	43,560	570,025	77,362	70 118	....	4,861	9,957	4,080	50	67,899	48,784	136,089	....	....	....	77	12,245	19,245	\$ 648,588 07
1st Quarter 1876	3,843,352	17,643	67,721	460,436	44,840	3 220	2 381	1,702	2,133	769	13	....	85,230	....	....	....	....	....	49	18,943	274,910 04
Increase 1877.	3,640,543	20,346	....	109,589	32,522	67	....	3,159	7,824	3,311	37	67,899	....	136,089	....	....	....	28	299	373,678 03	
Decrease 1877.	....	....	24,241	....	....	102	2,381	....	....	....	....	....	36,446	....	....	....	....	....	....	....	....
2d Quarter 1877.	9,378,452	34,002	274,535	381,520	8,732	.. 113	3,533	3,555	6,450	7,101	145	166,279	44,372	190,686	186	4,054	130	31	9,200	9,200	\$ 789,451 10
2d Quarter 1876.	4,307,695	5,548	171,939	307,080	6,621	.. 171	2,263	4,651	12,698	5,285	..	287,466	93,892	235,749	33,518	1,781	282	..	8,879	8,879	362,802 58
Increase 1877.	5,070,756	28,454	92,596	74,440	2,111	.. ..	1,270	....	....	1,816	145	....	....	....	....	2,273	..	31	....	....	426,658 52
Decrease 1877.	....	....	....	....	....	.. 8	....	1,096	6,168	....	..	121,187	49,430	45,063	33,332	....	152	..	679	....	....
Six Months 1877	16,843,347	71,991	315,035	951,545	86,094	70 231	3,533	8,416	16,407	11,181	195	234,178	93,156	326,775	186	4,054	190	108	28,446	28,446	\$ 1,438,049 17
Six Months 1876	8,132,048	23,191	239,660	767,516	61,461	.. 391	4,644	6,353	14,741	6 054	14	287,466	119,032	235,749	33,518	4,190	686	..	28,827	28,827	637,712 62
Increase 1877.	8,711,299	48,800	78,375	184,029	24,633	70 ..	....	2,063	1,666	5,127	181	....	....	91,026	....	....	..	108	....	....	800,336 55
Decrease 1877.	....	....	....	....	....	.. 160	1,111	....	....	....	..	53,288	85,676	....	33,332	136	656	..	381	....	....
3d Quarter 1877.	5,128,560	56,655	590,939	546,900	9,918	87 49	5,964	3,455	9,756	....	..	....	31,342	58,928	....	....	75	35	25,170	25,170	\$ 446,045 23
3d Quarter 1876.	8,484,445	35,342	587,206	545,263	13,571	.. 100	4,304	3,771	21,386	....	..	....	91,367	164,459	....	....	..	..	15,485	15,485	539,756 63
Increase 1877.	....	21 313	3,733	1,637	....	87 ..	1,660	....	....	....	..	....	....	....	....	....	..	75	35	9,885	....
Decrease 1877.	3,355,885	....	....	....	3,653	.. 51	....	316	11,630	....	..	....	60,025	105,531	....	....	..	..	....	....	93,713 40
Nine Months 1877	21,971,907	128 646	908,972	1,498,445	96,112	157 250	9,497	11,871	28,163	11,181	195	234,178	124,498	385,703	186	454	205	143	53,316	53,316	\$ 1,884,094 40
Nine Months 1876	16,616,493	68,533	826,866	1,312,779	85 032	.. 491	8,948	10,124	36,127	6 054	..	287,466	270,399	400,208	33,518	4,190	686	..	44,312	44,312	1,177,471 25
Increase 1877.	5,355,414	70,113	82,106	185,666	31,080	157 ...	549	1,747	....	5,127	195	....	....	....	....	....	..	143	9,004	9,004	\$ 706,623 15
Decrease 1877.	....	....	....	....	....	.. 211	....	....	9,964	....	..	53,288	145,901	14,565	33,332	3,736	451	..	....	....	....

COMPARATIVE VIEW OF THE COMMERCE OF THE HAWAIIAN ISLANDS FROM 1843, GIVING THE TOTALS FOR EACH YEAR.

Year.	Imports.	Exports.	Domestic Produce Exported	Foreign Produce Re-expt'd.	Total Custom House Receipts.	Transhipment of Oil and Bone.			Shipping.			Galls. Spirits Consumed	Haw. Registered Vessels		
						Galls. Spm. Oil.	Galls. Wh. Oil.	Lbs. Wh Bone.	National Vessels. No.	Merchant Vessels			Whalers No.	No.	Tons.
										No.	Tons.				
1843	\$ 223,383	.....	.....	\$ 66,618	\$ 8,468	.....	.....	.....	11	37	.....	136	.....	10	446
1844	350,347	\$ 169,641	\$ 109,587	60,054	14,263	.....	.....	.....	14	42	.....	165	.....	16	775
1845	546,941	269,710	202,700	67,010	25,189	.....	.....	.....	14	41	.....	163	.....	.....	.....
1846	598,382	682,850	620,525	62,325	36,506	.....	.....	.....	17	53	.....	167	.....	28	1,578
1847	710,138	264,226	209,018	56,208	48,801	.....	.....	.....	4	67	.....	167	3,271	07	2,160
1848	605,618	300,370	266,819	33,551	55,568	.....	.....	.....	7	90	.....	254	3,443	78	2,873
1849	729,739	383,185	185,083	198,102	83,231	.....	.....	.....	12	180	.....	274	5,718	.....	.....
1850	1,035,058	783,052	536,522	246,529	121,506	.....	.....	.....	12	469	90,304	237	8,251	80	3,539
1851	1,823,821	691,231	309,828	381,402	160,602	104,362	909,379	901,604	7	446	87,920	220	11,270	75	4,460
1852	759,868	638,393	257,251	381,142	113,001	173,490	1,182,738	3,159,951	3	235	61,065	519	14,148	69	4,432
1853	1,401,975	472,996	281,599	191,397	155,650	175,396	3,787,348	2,020,264	7	211	59,451	535	18,203	56	3,829
1854	1,590,837	585,122	274,029	311,092	152,125	156,484	1,683,922	1,479,678	16	125	47,288	525	17,537	54	6,271
1855	1,383,189	572,601	274,741	297,859	158,411	109,308	1,436,810	872,954	13	154	51,304	468	18,528	45	4,831
1856	1,151,422	670,824	466,278	204,545	123,171	121,294	1,641,579	1,074,942	9	123	42,213	366	14,779	48	4,718
1857	1,130,166	645,526	423,203	222,222	140,777	176,306	2,618,927	1,296,525	10	82	26,817	387	16,144	54	5,795
1858	1,089,660	787,082	529,966	257,115	116,138	222,464	2,551,382	1,614,710	10	115	45,875	526	14,637	53	5,249
1859	1,555,558	931,329	628,576	302,764	132,129	156,360	1,668,175	1,147,120	5	139	59,241	540	14,159	65	6,366
1860	1,223,749	807,459	480,526	326,932	117,302	47,859	782,086	571,966	10	117	41,226	325	14,295	68	6,935
1861	761,109	659,774	476,872	182,901	100,115	20,435	795,988	527,910	7	93	45,952	190	9,676	53	5,848
1862	998,239	835,424	586,541	251,882	107,490	12,522	460,407	193,920	6	113	48,687	73	8,940	58	6,646
1863	1,175,493	1,025,852	744,413	281,439	122,752	56,687	675,344	337,043	6	88	42,930	102	7,862	44	5,497
1864	1,712,241	1,662,181	1,113,328	548,852	159,116	33,860	608,502	339,331	8	157	75,893	130	10,237	56	7,895
1865	1,946,265	1,808,257	1,521,211	287,045	192,566	42,841	578,593	337,394	7	151	67,068	180	11,746	65	10,170
1866	1,993,821	1,934,576	1,505,821	428,755	216,647	118,961	1,250,965	611,178	3	150	60,628	229	12,833	74	11,664
1867	1,967,410	1,679,961	1,324,122	355,539	220,599	103,215	821,929	405,140	11	134	60,268	243	15,119	77	11,456
1868	1,935,790	1,898,215	1,450,269	447,946	210,076	106,778	774,913	596,043	7	113	54,833	153	16,030	63	9,793
1869	2,040,668	2,366,358	1,743,291	623,067	215,798	157,690	1,698,189	627,770	6	127	75,056	102	17,016	61	10,528
1870	1,930,227	2,144,942	1,514,425	630,517	223,815	105,234	1,443,809	632,905	16	159	91,248	118	19,948	64	10,855
1871	1,825,884	1,892,069	1,733,094	159,974	221,332	63,310	283,059	29,362	9	171	105,993	47	18,517	57	8,008
1872	1,746,178	1,607,551	1,402,685	204,836	218,375	50,887	32,974	81,998	7	146	98,647	47	18,843	54	6,407
1873	1,437,611	2,128,054	1,725,507	402,547	198,655	56,887	573,897	122,554	12	109	62,767	63	21,212	58	8,561
1874	1,310,827	1,839,619	1,622,455	217,164	183,867	23,187	403,876	174,111	13	120	71,266	43	18,466	54	8,101
1875	1,505,670	2,089,736	1,774,083	254,353	213,447	37,612	312,305	104,715	22	120	93,110	48	21,131	61	7,370
1876	1,811,770	2,241,041	2,055,133	185,908	199,036	.....	.....	.....	14	141	108,700	37	19,707	45	6,753

NOTES.—Where blanks occur in the earlier years, there was either no record or the figures when given were *un-reliable*.

The first transhipment of Oil and Bone was in 1851, so far as any regular record can be found for statistical purposes. But the first Stamped Entry for transhipment was for Whalebone in 1846.

In the arrivals of Whalers many of the ships touched at more than one Port during the season. The table shows the total of arrivals at all ports.

INCREASED IMPORT DUTIES.

List of articles upon which the new tariff duty of 25 per cent. and specific duties have been changed.

Britannia ware and fancy metal ware ; clothing ready made, and wearing apparel of every description, made up in whole or in part ; carriages of all descriptions ; crockery and glassware of every description ; cigarettes and all descriptions of paper cigars ; candles ; candies ; drugs and medicines, patent and other ; furniture of all kinds if upholstered or carved, manufactured in whole or in part ; fire-arms and ammunition ; fire-works and fire-crackers ; gloves and mitts not otherwise provided for ; gimps for clothing ; hats and caps of all kinds ; hoop skirts ; hooks and eyes ; insertions, laces and lace goods of all descriptions ; jewelry and all descriptions of metal, glass, or stone beads ; linens and all manufactures of which flax, grass-cloth or a similar material shall form the principal part, except bags and bagging and canvas for ship's use ; millinery goods, beads, braids, bonnets, buttons, corsets, collars, sleeves and cuffs, edgings, flowers (artificial), feathers (fancy), fringes for clothing and for upholstery ; paintings, pictures, engravings, statuary, bronzes, ornametal work of metal, stone, marble, plaster of Paris or alabaster, and all imitations thereof ; perfumery (other than that which pays a spirit duty), scented soaps, powders, hair, tooth, nail and other toilet brushes ; pipes (smoking), pipe stems, bowls and fixtures, cigar holders ; peanut oil ; ribbons not otherwise provided for ; silks, satins and silk velvet, and all manufactures of which silk shall form the principal material ; silver plate, plated ware, or gilt ware ; tea ; toys ; watches and clocks in whole or in part.

Articles of Specific Duty.

On playing cards, one dollar per dozen packs ; on kid and all other leather and skin gloves, three dollars per dozen pairs ; on cigars and cheroots, ten dollars per thousand ; on China tobacco, fifty cents per pound ; on camphor trunks, in nests of four, two dollars per nest ; and in nests of two, one dollar per nest ; on matches of all kinds, twenty-five cents per gross ; on China matting, one dollar per roll ; on port, sherry, madeira, and other wines of like nature above 18 per cent. of alcoholic strength ; also on all cordials, bitters and other articles of any name or description containing alcohol or spirits above that rate of strength and below thirty per cent. unless otherwise provided for, two dollars per gallon ; on champagne, sparkling moselle and sparkling hock, three dollars per dozen reputed quarts, and fifty cents per dozen reputed pints ; on claret, Rhine wines, and other

HAWAIIAN REGISTER AND DIRECTORY FOR 1878.

Governors.

- Governor of Oahu, His Excellency John O Dominis. Residence, Washington Place, Honolulu.
- Governor of Maui, His Excellency W L Moe-honua, Residence, Lahaina, Maui.
- Governor of Hawaii, His Excellency S Kipi. Residence, Hilo, Hawaii.
- Governor of Kauai, His Excellency J E Bush. Residence, Koloa, Kauai.

Government Officers.

- Marshal of Haw'n Islands..... W C Parke
- Deputy Marshal..... David Dayton
- Sheriff of Hawaii..... L Severance
- Sheriff of Maui..... Thos W Everett
- Sheriff of Kauai..... S W Wilcox
- Police Justice, Honolulu..... W Claude Jones
- Police Justice, Lahaina..... Matthew Makalua
- Police Justice, Hilo..... L Kaina
- Postmaster-General..... A P Brickwood
- Postmaster's Assistant..... I B Peterson
- Collector-General of Customs..... W F Allen
- Clerk to the Coll Gen of Customs..... C R Hendry
- Port Surveyor..... W A Markham
- Harbor-Master of Honolulu..... Capt D Smith
- Pilots in Honolulu..... { Capts A McIntyre
and W Babcock
- Surveyor General..... D D Alexander
- Assistant Surveyor..... C J Lyons
- Registrar of Conveyances..... Thos Brown
- Secretary of the Int Dept..... Chas T Gulick
- Second Clerk Int Dept..... P Jones
- Secretary of Dept For Affairs..... Wm Jarrett
- Registrar of Public Accounts..... J O Carter
- Interpreter of Sup & Pol Courts..... W L Wilcox
- Sup Water Works & Public Works..... R Lishman
- Jailor Oahu Prison..... D K Fyfe

Hawaiian Diplomatic and Consular Agents.

Minister Resident.

- Washington, D C..... His Ex E H Allen
- Charges d' Affaires and Consuls General.*
- New York..... E H Allen, Jr
- London, England..... Manley Hopkins
- Valparaiso, Chile..... David Thomas
- Paris, France..... William C Martin
- Germany..... J C Pfleger
- Lima, Peru..... Robert H Beddy

Consuls General:

- Yokohama, Japan..... Robert M Brown
- Hongkong and Macao, China..... William Koswick
- Sydney, New South Wales..... Ed Reeve

Consuls:

- San Francisco, California..... H W Severance
- Portland, Oregon..... James McCracken
- Boston, Massachusetts..... Edward M Brewer
- Liverpool, England..... Robert C Janion
- Falmouth, England..... W S Broad
- Ramsgate, England..... A S Hodges
- Auckland, New Zealand..... James Cruickshank
- Sydney, N S W..... Alex Speed Webster
- Melbourne, Victoria..... G N Oakley
- New Castle, N S W..... E A White, Vice Consul
- Otago, New Zealand..... Henry Driver
- Panama..... J McK Cook
- Victoria, British Columbia..... Henry Rhodes
- Batavia..... S Maintz
- Copenhagen, Denmark..... Svend Hoffmeyer

- Vienna, Austria..... Victor Schonberger
- Glasgow, Scotland..... James Dunn
- Cork, Ireland..... W D Seymour
- Marseilles, France..... A Couve
- Havre, France..... Leon de Mandrot
- Bordeaux, France..... Ernest de Boissac
- Genoa, Italy..... Raphael de Luchi
- Callao, Peru..... Sylvanus Crosby
- Nagasaki, Japan..... Chas L Fischer
- Kobe and Osaka, Japan..... James Harris
- Edinburgh & Leith, Scotl'd..... E G Buchanan
- Hiroo, Japan..... (Vice Consul)..... B R Lewis
- Yokohama, Japan..... (Vice Con Gen)..... R W Irwin
- Grand Duchy of Baden Baden..... H Miller
- Queensland, Australia..... H A Thompson
- Hamburg, Germany..... Edward F Weber
- Antwerp, Belgium..... Victor Forge, Jr
- Rouen, France..... Charles Schaeffer
- Bremen..... Jno F Muller
- Singapore..... M Suhl

Foreign Representatives, Diplomatic

- United States, U S Minister Resident, His Ex Jas M Comly. Residence, Cor Judd and Liliha Sts.
- England, Commissioner and Consul General, James Hay Wodehouse. Residence at Waikiki.
- France, Commissioner and Consul, Theo. Balieu. Residence, Beritania St.

Foreign Consuls, Honolulu.

- United States..... James Scott
- United States Vice Consul..... Frank P Hastings
- British Consul Gen'l. (Acting)..... Theo H Davies
- Italy..... F A Schaefer
- Sweden and Norway..... J C Glade
- Chile..... C S Bartow
- Austro-Hungarian..... E Hoffmann, M D
- German Empire..... J C Glade
- Peru..... (Acting)..... A J Cartwright
- Netherlands and Belgium..... F Banning
- Portugal..... Jason Perry
- Russia, Vice Consul..... J W Pfleger
- Denmark..... (Acting)..... Henry R Macfarlane
- U S Consular Agent..... (Hilo)..... Thos Spencer
- Denmark..... (Hana, Maui)..... August Unna

Commissioners of Crown Lands.

- H A P Carter, J Mott Smith,
J O Dominis, Agent

Appraisers of Lands subject to Government Commutation.

- Hawaii..... R A Lyman, S Kipi, J H Nawahi
- Maui, Molokai and Lanai..... Thos Everett, L Aholo, D Kahaulelio
- Oahu..... P Jones, C Brown, J W Makalena
- Kauai..... D McBryde, P Kanos, J H Wana

Board of Immigration.

- His Ex J Mott Smith..... President
- Members- His Ex H A P Carter, His Ex J M Kapena, Hon A F Judd, Hon W L Green

Chamber of Commerce.

- President..... Hon S N Castle
- Vice President.....
- Secretary and Treasurer..... A J Cartwright

HAWAIIAN REGISTER AND DIRECTORY FOR 1878.

Commissioners of Private Ways and Water Rights.

HAWAII.

Hilo.....W H Reed, D Keawehano, Kamai
Hamakua: T F Mullis, J K Kaunamano, J R
Mills
N & S Kohala: W Merseburg, S C Luhiau, Z
Kalai
Kau....C N Spencer, J Kauhane, J H S Martin

MAUI.

Lahaina.....L Aholo, E Jones
Wailuku: H W Daniels, N Keipoikai, H Kuihe-
lani
Makawao: J Keohokaua, Kekaha, J M Alexan-
der
Hana.....A Unna, Kahananui, Kamakahiki
Kaanapali: J A Kaukau, J F Kaulia, D H Ka-
iaiiili

OAHU.

Kona....J W Makalena, J Moanauli, S B Dole
Koolaupoko....C H Judd, Kane, G Barenaba
Koolauloa.....W C Lane, Naili, J Kaluhi
Waiialua: J F Anderson, S N Emerson, N Kaia-
ikawaha
Ewa and Waianae: S Kaanaana, A Kaoliko, H
U Mahi

KAUAI.

Puna.....D Kealahula, W O Smith
Waimea.....G B Rowell, V Knudsen, Kahaoa
Hanalei....Chas Titcomb, A S Wilcox, Z Seka

Commissioners of Fences.

HAWAII.

Hilo: C E Richardson, J Keahi, S L Austin, R
A Lyman, K Paulo
Hamakua.....J R Mills, J K Kaunamano
N & S Kona.....M Barrett, H Cooper, Kapae
N Kohala.....Kamahu, Jas Wood, W Merseburg
S Kohala: S F Chillingworth, John Parker, S H
Mahuka
Kau: W T Martin, C N Spencer, S Kawaa, D
W Kaaemoku

MAUI.

Makawao.....N F Sayre, Malaihi, M Kapihe
Hana.....C K Kakani, J Harbottle, D Puihi
MOLOKAI.....R W Meyer, S Paulo, R Newton

OAHU.

Kona....C J Lyons, J Moanauli, J W Makalena
Ewa and Waianae: Kalkainahaole, S Preveire,
S Gandall
Waiialua.....C W Collins, J Amara
Koolauloa.....Kaluhi, Naili, W C Lane
Koolaupoko....W E Pii, G Barenaba, C H Judd

KAUAI.

Koloa and Lihue...W H Rice, S Kaico, Pahuwai

Commissioners of Boundaries.

Hawaii.....R A Lyman
Maui, Molokai and Lanai.....W L Moehonua
Oahu.....E Preston
Kauai.....D McBryde

Road Supervisors.

HAWAII.

Hilo.....K Paulo
N Kohala.....Geo Holmes
S Kohala.....S P Wahinenui
N Kona.....J W Smith
S Kona.....H Cooper
Kau.....W T Martin
Hamakua.....T F Mullis
Puna.....S Kaina

MAUI.

Lahaina.....D Taylor
Wailuku.....Geo E Richardson
Hana.....E Helekunihi
Makawao.....W T Cooper
MOLOKAI AND LANAI.....R W Meyer
OAHU.....Robt Lishman

KAUAI.

Waimea and Niihau.....V Knudsen
Koloa.....D McBryde
Lihue and Anahola.....S W Wilcox
Hanalei.....C Bertleman

Inspectors of Stallions.

HAWAII.

N & S Kohala.....J P Parker
N & S Kona.....M Barrett
Kau.....L E Swain
Puna.....J E Eldarts
Hilo.....L Severance

MAUI.

Lahaina.....J Jones
Wailuku.....P N Makee
Hana.....J Harbottle
Makawao.....G Miner
MOLOKAI.....R W Meyer

OAHU.

Honolulu.....J O Dominis
Ewa and Waianae.....J W Makalena
Koolauloa.....J Kaluhi
Koolaupoko.....G Barenaba

KAUAI.

Lihue, Koloa and Waimea.....D McBryde

Board of Health.

His Ex J Mott Smith.....President
Members—His Ex A S Hartwell, Hon S G Wild-
der, and Drs R McKibbin and F B Hutch-
inson.

Port Physician.....Dr F B Hutchinson
TRAVELING PHYSICIANS.—Hawaii, S L Thomp-
son, MD. Maui, F H Enders, MD. Kauai,
J W Smith, MD.

AGENTS.—T W Everett, Maui. L Severance,
Hawaii. S W Wilcox, Kauai. D Dayton,
Oahu; John H Brown, for Honolulu; R W
Meyer, Molokai.

Hawaiian Board of Health.

Colonel C H Judd.....President
Members.....E P Edwards, J Moanauli

HAWAIIAN REGISTER AND DIRECTORY FOR 1878.

Notaries Public.

HAWAII.	
Hilo.....	D H Hitchcock
MAUI.	
Haiku.....	C H Dickey
Makawao.....	W H Halstead
OAHU.	
Honolulu—John H Paty, Thos Brown, Chas T Gulick, Cecil Brown, W R Castle	
KAUAI.	
Waimea.....	V Knudsen

Agents to Take Acknowledgments to Instruments.

HAWAII.	
W F Conway, W J Smith, C N Spencer, J K Kaunamano, J Kauhane, F Spencer, L E Swain, H, Kahookani	
MAUI.	
W H Daniels, H Dickenson, T W Everett, C K Kakani, P N Makee, J D Havekost, T N Birch, James Smyth	
MOLOKAI.	
R W Meyer, S G Dwight, W P Ragsdale, R Newton	
OAHU.	
W C Lane, S N Emerson, G Barenaba	
KAUAI.	
F Bindt, S W Wilcox, G N Wilcox, C Bertleman	

Agents to Acknowledge Contracts for Labor.

HAWAII.	
Hilo.....	L Severance, J H Pahio
N & S Kona.....	S K Kaai
Hamakua.....	J R Mills, J K Kaunamano
N Kohala.....	W Merseburg, Z Kalai
S Kohala.....	J Stuppelbeen, J Jones
Kau.....	J H S Martin, J Kauhane
MAUI.	
Labaina.....	Kia Nahaolelua, L Aholo
Waiuku.....	T N Birch, J J Halstead
Makawao.....	Wm Smith, Chas H Dickey
Hana.....	Samuel Kaai
MOLOKAI.....	J W M Poolea
LANAI.....	J W Kalua
OAHU.	
Honolulu.....	Chas T Gulick, Henry Waterhouse
Waialua.....	S N Emerson
Koolauloa.....	W C Lane
Koolaupoko.....	G Barenaba
KAUAI.	
Lihue and Koloa.....	S W Wilcox, A H Smith
Hanalei.....	Z Seka, Junius Kaee
Waimea.....	M Kamalenui

Packet Agencies.

Boston Packets.....	C Brewer & Co
Regular Dispatch Line.....	C Brewer & Co
Oregon Packet.....	Castle & Cooke
Liverpool & Glasgow.....	Green Macfarlane & Co
Pacific Mail S S Co.....	H Hackfeld & Co
Bremen Packets.....	H Hackfeld & Co

Boards of Underwriters, Agencies.

Boston.....	C Brewer & Co
Philadelphia.....	C Brewer & Co
New York.....	A J Cartwright
Liverpool.....	Theo H Davies
Lloyds, London.....	Theo H Davies
San Francisco.....	H Hackfeld & Co
Bremen, Dresden, Vienna.....	F A Schaefer

Life, Fire and Marine Insurance Agencies.

Firemen's Fund.....	Bishop & Co
Manhattan Life.....	Bishop & Co
Liverpool & London & Globe.....	Bishop & Co
Equitable Life.....	A J Cartwright
Imperial Fire.....	A J Cartwright
New England Mutual Life.....	Castle & Cooke
Union.....	Castle & Cooke
British and Foreign Marine.....	Theo H Davies
Northern Fire and Life.....	Theo H Davies
California.....	H Hackfeld & Co
Trans-Atlantic Fire.....	H Hackfeld & Co
Nor Br & Merc'ile F & L.....	Holtzschlaeger & Co
Northwestern Mutual Life.....	W G Irwin & Co
Swiss Lloyd Marine.....	W G Irwin & Co
Hamburg-Magdeburg Fire.....	A Jaeger
Hamburg-Bremen Fire.....	F A Schaefer & Co
Mutual Life of New York.....	S G Wilder

Honolulu Fire Department.

Organized 1851. Annual Election of Engineers, First Monday in June. Officers for 1877-8.	
Chief Engineer.....	James S Lemon
First Assistant Engineer.....	George Lucas
Second Assistant Engineer.....	John Nott
Secretary and Treasurer.....	Chas T Gulick
Honolulu Engine Company No. 1, formed 1850, organized July 7, 1855. Annual election of Officers, first Wednesday in July.	
Mechanic Engine Company No. 2, Organized December 1850, admitted February 3d, 1851. Annual election of Officers, first Wednesday in February.	
Hawaii Engine Company No. 4, Organized February, 1861. Annual election of Officers, first Tuesday in February.	
Pacific Hose Company No. 1, Organized January, 1861, as Engine Company No. 3, changed to a Hose Company, December 14, 1863. Annual election of Officers, second Monday in January.	
Protection Hook & Ladder Company, No. 1, Organized September, 1857. Annual election of Officers, first Monday in September. Annual Parade Day of Department.....	Feb 3rd
FIRE WARDS AND WARDENS, HONOLULU.	
Ward No. 1—Comprises all that portion North of Fort Street, and <i>makai</i> of Hotel Street.	H J Nolte, Warden.
Ward No. 2—Comprises all that portion South of Fort Street, and <i>makai</i> of Hotel Street.	Henry Hart, Warden.
Ward No. 3—Comprises all that portion North of Fort Street, and <i>makaia</i> of Hotel Street.	J. Holk, Warden.
Ward No. 4—Comprises all that portion South of Fort Street, and <i>makaia</i> of Hotel Street.	C B Wilson, Warden.
Ward No. 5—Vessels in Harbor of Honolulu.	

HAWAIIAN REGISTER AND DIRECTORY FOR 1878.

Board of Education.

President.....Hon Charles R Bishop
 Members—His Ex J Mott Smith, Hons Godfrey
 Rhodes, Edwin O Hall, J U Kawainui.
 Inspector-General of Schools.....D D Baldwin
 Secretary.....W J Smith

School Agents in Commission.

HAWAII.

Hilo.....L Severance
 Puna.....J E Eldaris
 Kau.....W T Martin
 S & N Kona.....H N Greenwell
 S Kohala.....Rev L Lyons
 N Kohala.....Dr J Wight
 Hamakua.....Rev J Bicknell

MAUI.

Lahaina.....W L Mochonua
 Wailuku.....Rev W P Alexander
 Hana.....C K Kakani
 Makawao.....J D Havekost
 MOLOKAI.....R W Meyer
 LANAI.....W M Gitson

OAHU.

Honolulu, Ewa and Waiānae.....W Jas Smith
 Waiāluā.....J F Anderson
 Koolāloa.....W C Lane
 Koolāupoko.....Rev J Manuel

KAUAI.

Waimea and Niihau.....V Knudsen
 Koloa.....Rev J W Smith
 Puna, Koolāu and Hanalei.....S W Wilcox

Oahu College.

Located at Punahou two miles east of Honolulu
 President.....A Pratt
 Prof of Languages.....Mr Palmer
 Lady Teachers.....Miss Dame and Miss Marsden
 Matron.....Mrs A Pratt | Treas.....S N Castle

British Benevolent Society.

Organized 1860. Meets annually May 24.
 President.....James Hay Wodehouse
 Vice President.....T H Davies
 Sec'y.....J S Smithies | Treas.....A S Cleghorn
 Ex Committee...G Rhodes, G Lucas, A Young

Ladies' Benevolent Society of Fort St. Church.

Organized 1853. Meets annually in April.
 President.....Mrs T H Hobron
 Vice President.....Mrs W F Allen
 Sec'y.....Miss H S Judd | Treas.....Mrs P C Jones
 Directress.....Miss Kate Grey

Sailors' Home Society.

Organized 1853, meets annually in December.
 President.....S N Castle
 Sec'y.....F A Schaefer | Treas.....C R Bishop
 Ex Com.—E O Hall, E P Adams, S C Damon

German Benevolent Society.

Organized August 22, 1859.
 President.....E Hoffmann
 Sec'y.....J Hoting | Treas.....A Boese

Lodges.

Le Progres de l'Océanie, No. 124, A. F. & A. M.,
 Lodge meets on King street, last Monday
 in each month.
 Hawaiian, No. 21, F. & A. M., Lodge meets
 in Makee's Block, first Monday in each
 month.
 Royal Arch Chapter, meets in Hall of Le
 Progres de l'Océanie Lodge, every third
 Thursday of the month.
 Commandery of Knights Templar, meets
 every second Thursday in the month
 Kamehameha Lodge of Perfection, No. 1, A. &
 A. S. R., meets at the hall of Le Progres
 de l'Océanie, fourth Thursday in the month.
 Maui, No. 223, F. & A. M., Wailuku, Maui.
 Nuanu Chapter of Rose Croix, No. 1, A. & A.
 S. R., meets at the hall of Le Progres de
 l'Océanie, first Thursday in the month.
 Excelsior, No. 1, I. O. of O. F., Lodge meets
 each Tuesday in the Hall of the Odd Fel-
 lows' Building, Fort street.
 Polynesian Encampment No. 1, I. O. of O. F.,
 meets at Odd Fellow's Hall every first and
 third Friday in each month.
 Harmony No. 3, I. O. O. F., Lodge meets each
 Monday in the Hall of Excelsior Lodge.
 Oahu No. 1, K. of P., Lodge meets each Wed-
 nesday at Hall on Hotel street.
 Hawaiian Tribe, No. 1, Improved Order of Red
 Men, meets every Friday evening at Hall
 of Oahu, No. 1, K. of P., on Hotel street.

Mission Children's Society.

President.....Amasa Pratt
 Vice President.....W R Castle
 Rec Secretary.....L Thurston
 Cor Secretary.....Miss M A Chamberlain
 Ass't Cor Sec'y's.....Miss L White & A L Smith
 Elec Membs.....Miss H S Judd & JT Waterhouse jr
 Treasurer.....W W Hall

Microscopical and Natural History Society.

Organized April 23d, 1875. Meets on the first
 Thursday evening of each quarter.
 President.....His Majesty | Rec Sec.....C J Lyons
 Vice Pres...W L Green | Cor Sec.....Dr G Frouseau
 Treasurer.....A J Cartwright

Strangers' Friend Society.

Organized 1852. Annual Meeting in June.
 President.....Mrs S C Damon
 Vice-Presidents.....Mrs T H Hobron and Mrs C
 R Bishop.
 Sec'y.....Mrs Lowell Smith
 Treas.....Mrs H M Whitney
 Directress.....Mrs A Mackintosh

Volunteer Military Companies.

Prince's Own—Artillery...His Majesty, Captain
 Leleiōhoku Guards-Cavalry, His Majesty, Capt
 Hawaiian Guards, Co. A.....Chas T Gulick, Capt
 Hawaiian Guards, Co. B.....C B Wilson, Capt

British Club.

Organized 1852. Premises on Union Street,
 two doors below Beretania.
 Managers—A S Cleghorn, W Jas Smith, T R
 Walker.

HAWAIIAN REGISTER AND DIRECTORY FOR 1878.

Queen's Hospital.

Erected in 1860.

President.....His Majesty the King
 Vice-President.....C R Bishop
 Sec'y.....F A Schaefer | Treas.....J H Paty
 Auditor.....W L Green | Physic'n..R McKibbin
 Executive Committee—C R Bishop, J H Paty,
 F A Schaefer, A J Cartwright, W C Parke

American Relief Fund.

Organized 1864. Meets annually February 22d
 President.....A J Cartwright
 Vice President.....Rev S C Damon
 Secretary and Treasurer.....C R Bishop

Mechanics' Benefit Union.

Organized 1856.

President.....Rob't Grey
 Vice President.....J H Black
 Sec'y.....T R Lucas | Treas.....C T Gulick

Young Men's Christian Association.

Organized 1869. Annual meeting in April.
 President.....P C Jones
 Vice President.....S B Dole
 Sec'y.....G P Castle | Treas.....C M Cooke

Board of the Hawaiian Evangelical Association.

Constitution revised 1863. Ann Meeting June
 President..Rev T Coan | Vice Pres...S N Castle
 Cor. Sec'y.....Rev H Bingham
 Res. Sec'y.....Rev H H Parker
 Treas.....E O Hall | Auditor.....P C Jones

Hawaiian Caledonian Club.

Organized Oct. 28, 1876. Ann Banquet, Nov. 30

OFFICERS.

Chief.....Hon A S Cleghorn
 First Chieftain.....H E McIntyre
 Second Chieftain and Treasurer...Capt D Smith
 Third Chieftain and Secretary...J M Macdonald
 Consulting Clansmen—H Macfarlane, J W Robertson, R Grieve, J Renton sr.

Publications.

The *Advertiser*, issued every Saturday morning.
 H L Sheldon, Publisher and Editor.
 The *Gazette*, issued every Wednesday morning.
 The *Friend*, issued on the first of each month.
 Rev S C Damon, Seamen's Chaplain, Editor and Publisher.
 The *Kuokoa* (native,) issued every Saturday morning.
 The *Lahui Hawaii*, (native,) issued every Thursday morning by the Hawaiian Board.

Places of Worship. Foreign.

Bethel Church, (Congregational) cor King and Bethel Sts., Rev S C Damon, D D, Pastor. Services Sunday at 11 A M. Chinese Services Sunday evenings at 7½ o'clock. Prayer Meeting Wednesday evenings at 7½ o'clock.
 Fort Street Church, (Congregational,) cor Fort and Beretania Sts., Rev W Frear, Pastor. Services Sundays at 11 A M, and 7½ P M; Sunday School at 9.45 A M. Prayer Meeting Wednesday evenings, at 7½ o'clock.
 St Andrew's (Temporary) Cathedral, (Episcopal.) Emma Square, Rt Rev Bishop of Honolulu officiating. Revs T Blackburn and A Mackintosh assisting. English Services on Sundays, 6.30 and 11 A M, and 2.30 and 7.30 P M. Sunday School at 10 A M.
 Roman Catholic Church, Fort St., Rt Rev L Maigret, Lord Bishop of Arathea; Revs P Modeste and P Hermann, assisting. Low Mass every day at 6 and 7 A M, High Mass Sundays and Saint's Days at 10 A M. Catechism and Evensong Sundays at 2 and 4.30 P M.

NATIVE CHURCHES.

Kaumakapili Church, (Congregational,) Beretania St, Rev M Kuuea, Pastor. Services in Hawaiian every Sunday at 10.30 A M and 7.30 P M.
 Kawaiahao (Stone) Church, (Congregational,) cor King and Punchbowl Sts., Rev H H Parker, Pastor. Services in Hawaiian every Sunday at 10.30 A M and 3 P M.

THE BOARD OF EDUCATION---ITS DUTIES AND REGULATIONS.

The Board consists of five members who are appointed by the King to hold office during his pleasure and who serve without pay,—one of whom is President. No person in holy orders or a minister of religion is eligible to fill the offices of President or of Inspector General. It has the entire charge and control of the Bureau of Public Instruction and superintends the execution of all laws relating thereto; keeping regular records of its proceedings and making a report, through its President, of the business and transactions of the Bureau to the Legislature at each regular session.

The Board appoints an Inspector General of Schools who holds office during its pleasure and receives such salary as the Legislature

from time to time appropriates therefor. It is his special duty to make frequent tours of the respective islands and districts; to examine into the condition of the schools supported or aided by the Government, to inform School Agents and Teachers of their duties under the law and to foster generally an interest in the cause of Education.

An officer called the School Agent is appointed for each district, to whom is principally entrusted the execution of all the acts, orders, instructions and regulations of the Board of Education and of the Inspector General. These are appointed by the Board, and are removable at pleasure; it from time to time determines the amount of compensation to be paid them, varying the same according to the value or amount of services performed. They are *ex officio* Treasurers of the School fund in their respective districts, and are also Trustees of *all the School property* in their districts and have severally the power to sue and be sued in any Court of the Kingdom. The school houses in the respective districts are especially under their care, to preserve the same, as far as possible, from injury and decay.

The Board of Education provides all the books &c., needed by the schools, English and Hawaiian, supplying the same to the people at the lowest possible figures of importation or production.

It is also the province of the Board to take the census of the islands every six years, as provided by law, and to keep—through its agents—a correct register of births and deaths throughout the islands.

THE HAMAKUA-HAIKU IRRIGATION DITCH.

In the past the want of an abundant supply of water has seriously interfered with the cultivation of sugar-cane in many, otherwise favorable localities on these islands. Now, under the encouragement given to the agricultural industries of the group, attention has been called to the water supply to be obtained for irrigating purposes at various points; and with that energy and far-seeing sagacity which is characteristic of the management of the Haiku Plantation on Maui, the right was secured from the government, to use the water flowing in streams down the broad slopes of Haleakala to the east of the plantation, and work was at once commenced on the ditch.

The line, some seventeen miles in extent, with the exception of a few miles near the plantation, passes through the dense forest that covers the side of the mountain, and in running the levels for the work many large ravines and innumerable small valleys and gulches were encountered. In the smaller of these the ditch winds its way,

with here and there a flume striding across the hollow, while through nine of the larger the water is carried in pipes twenty-six inches in diameter.

The digging of the ditch was a work of no small magnitude. A large gang of men, sometimes numbering two hundred, was employed in the work, and the providing of food, shelter, tools, etc., was equal to the care of a regiment of soldiers on the march. As the grade of the ditch gradually carried the line of work high up into the woods, cart-roads had to be surveyed and cut from the main road to the shifting camps. All the heavy timbers for flumes, etc., were painfully dragged up hill and down, and in and out of deep gulches, severely taxing the energies and strength of man and beast, while the ever-recurring question of a satisfactory food supply created a demand for everything eatable to be obtained from the natives within ten miles, besides large supplies drawn from Honolulu and abroad.

At the head of the work many difficult ledges of rock were encountered, and blasting and tunneling were resorted to,—to reach the coveted water. While work on the ditch was thus progressing, pipe makers from San Francisco were busied rivetting together the broad sheets of iron to make the huge lengths of tube fitted to cross the deep ravines. These lengths had each to be immersed in a bath of pitch and tar which coated them inside and out, preserving the iron from rust, and effectually stopping all minute leaks. The lengths thus prepared being placed in position in the bottom of the ravines, the upright lengths were fitted to each other (like lengths of stove-pipe) with the greatest care, and clamped firmly to the rocky sides of the cliffs. Their perpendicular length varies from 90 feet to 450 feet; the greatest being the pipe that carries the water down into, across, and out of Maliko gulch to the Baldwin and Alexander, and Grove Ranch Plantations. At this point every one engaged on the work toiled at the risk of his life; for the sides of the ravine are almost perpendicular, and a "bed" had to be constructed down these sides.

Then each length of pipe was lowered into the ravine and placed carefully in position; after which the perpendicular lengths were built up to the brink. In such places the pressure of water upon the bottom lengths is very great, and the thickness of the pipe is proportionally increased.

The mouth of each length of pipe, where the water flows in from the ditch, is fitted with a trumpet-shaped box opening out from the diameter of the pipe, to the sides of the "sand-box" placed so as to catch sediment. Heavy gratings cover these boxes in order that no floating material may get into the pipes. In the ditch itself, what-

ever may be its general grade, the last 500 feet next each inlet end of pipe is reduced in grade to almost a level, and correspondingly widened.

Along the line of the ditch it is interesting to note the nature of the soil through which it is dug. Many miles pass through an underlying strata of red clay which makes a compact, water-tight bed: while in other places the soil was only made to "hold water" by packing it solidly. There is but little waste of water from soakage, far less than was anticipated, and in the pipes none at all from leakage. The grade varies considerably; being as high as twelve feet to the mile in places, and again descending with hardly a perceptible incline.

In going through the forest very many romantic views are obtained, and a rich botanical region traversed by the upper end of the ditch.

The whole work cannot yet be said to be completed, for although the water supply was introduced to Haiku's fields July 4th, 1877, within a year from its inception, it is the aim of its projectors to continue on the work till it reaches the Nailiilihaele gulch, thus taking in six principal streams for their supply, as per grant from government, viz.: Honapau, Holawa, Huelo, Hoalua, Kailua and Nailiilihaele. The ditch is now as far as Hoalua gulch, and will be continued during the winter as the weather will permit.

Already Hamakua has awakened to participate in the benefits of the scheme, for since July there have been over 300 acres of land plowed up and planted with cane.

The cost, including all the finishing work is about \$80,000, for which sum, the Company that owns the work have secured a watery Bonanza. Other works of a like nature will probably be projected and carried out on the islands in the near future; but the original "big ditch" will always stand as a monument of intelligent enterprise energetically applied and prudently directed.

F. L. C.

HISTORY AND DESCRIPTION OF HAWAIIAN POSTAGE STAMPS,

By Thos. G. Thrum.

In the ANNUALS for 1875 and 1876 we were unfortunate in disseminating erroneous information respecting the early emissions of the Stamps of these Islands, though we sought it in various directions, and of those from whom we had every reason to expect reliability. Finding we were in error, we have left no point unsearched to arrive at all the facts relating to the various issues that have been emitted,

and after much toil and labor, we have the pleasure of knowing that what is here given are facts that can be relied upon. In searching for the time of the first issues, which Lallier's Album and Gray's Illustrated Catalogue of Stamps set down as in 1852, we have naturally been led to the History of the Post Office itself.

This important branch of the public service was not established until 1850 when, by Act of the Privy Council, it was established Dec. 21st, with H. M. Whitney as Post Master. The same Act defined the postage rates at five cents per one-half ounce or part, on letters, and two cents on each paper. The Legislature of 1851 ratified this Act of the Privy Council and authorized the Post Master to issue Stamps of such denominations as was necessary. The *Polynesian*, of Sept. 13th, 1851, published this Law and makes the following mention: "We publish in to-day's paper the Post Office Law as amended and passed by the Legislature, which reduces it to five cents on all letters weighing less than one-half ounce, and requires that the Hawaiian Postage on all letters sent foreign be pre-paid * * * Postage to Oregon and California twelve cents, east of the Rocky Mountains thirteen cents if pre-paid, or nineteen cents if the United States Postage is not pre-paid. The above rates include the entire Hawaiian and United States Postage on single letters, and are an important reduction from the former rate of fifty cents. Postage on papers under the new United States Law is higher than formerly, being five cents, which, with the Hawaiian two cents, makes seven cents on a paper. * * *" The reduction of Postage here mentioned had reference to the change in the United States and not the Hawaiian.

With the publication of the Law it went into effect, and on the 1st of October following, the first Hawaiian Stamps were printed. In the *Polynesian* of October 4th, we find this first allusion or notice of them: "Postage Stamps of two, five and thirteen have been prepared and can now be had at the Post Office." These are the first numeral Stamps which were set up from types, with the figured or pattern border around the numerals and plain double line border around the whole, as the denominations mentioned agree with the numerals issued, whereas the engraved "bust" Stamps of Kamehameha III. were only of five and thirteen cents. It is a matter of regret that no record was kept in the office, or can be found there, to throw light on any of the early emissions.

The history of the thirteen cent Stamp has been sought for with interest, as there is nothing in the rates that ever ruled at these Islands that called for such a denomination. From the above quotation from the *Polynesian*, it must have been through a courteous

arrangement with the San Francisco Post Office which included also the pre-paid United States and Sea Postage rates, for the second issued thirteen cent numeral and the engraved "bust" thirteen cent Stamp shows the joint interest. Our views in this matter we learn are fully corroborated by Mr. Whitney, who states that much credit is due the late J. B. Moore, who was Post Master of San Francisco from 1850-52, for his many courteous acts and great assistance in the establishment of the Postal Department of these Islands. The Postage under this mutual arrangement was settled for at the end of each quarter. The numeral Stamps—of this and subsequent issues—were struck off in the Government Printing Office in this city as they were required from time to time, and upon thin plain letter paper, such as was to be had at the time in the market, which accounts, in a measure, for the great variety of kinds. The first three engraved Stamps, viz: Kamehameha III. five and thirteen, and the Kamehameha IV. two cent, were engraved in Boston, the two first arriving here in April, 1853; the latter was gotten up subsequent, which has generally been conceded to follow the establishment of inter-island Postage, appearing here in 1862, but Mr. Whitney places its date of issue for 1855. The later two cent Kamehameha was issued in 1864, and is our first perforated Stamp. This and all subsequent issues of engraved Stamps have been gotten up by the National Bank Note Company of New York.

The emission of the plain bordered numeral Stamps followed close upon the establishment of inter-island Postage which we find to be by Act of the Legislature of 1859; prior to this all inter-island mail matter passed through the office free, or by the hands of masters of coasters and others. The interest of Philatelists all over the world have been drawn to these emissions of numeral Stamps, and various are the designs and uses assigned for them. For the benefit of all such we would state that these were issued to meet the requirements under the new inter-island Postage Law, which was the first necessity for a one cent stamp. As before stated these were gotten up in the Government Printing Office, and were set up in forms of ten for printing. It has been impossible to ascertain the dates of the various issues, but we have every reason to believe that the pale blue on white, or the dark blue on blue tinted paper were the first. The last were black on blue. The five cent numeral stamp was issued in 1865. In 1866 an effort was made here, by a Mr. J. Costa, to produce an engraved one cent stamp with bust of Kamehameha I, to the order of the Post Office, but it failed.

In order to make our article as complete as possible and avoid con-

fusion, we have procured the cuts of all obtainable, and will proceed to describe them in their order, making such notes as belongs thereto.



1. Type-printed; numerals of value in fancy border around the figures, with inscription above and value at foot; in plain rule or linear frame. HAWAIIAN POSTAGE at top. Col. imp., rect.

Two cents, pale blue; five cents, pale blue; thirteen cents, pale blue. Time of issue, 1851.



2. Type-printed; similar in its general style to No. 1, though differing in the pattern of the fancy border, and in the foot line. H. I. & U. S. POSTAGE at top. Col. imp., rect. *Thirteen cents, pale blue. Time of issue, 1852.*

NOTE.—These four described Stamps are on uniform thin white French (or overland) letter paper, in pale blue, and are uniform in color. In a full set before us we note no difference, though Gray's Catalogue mentions the *two* as darker. We attribute this to the body of the figure. This series have been exceedingly rare here, from the fact that their use was altogether for foreign mails, and so went out of the country. The Type have long since been shipped away among old type metal.



3. Engraved portrait of Kamehameha III., in military uniform in rectangular disk, having inscribed arched label above; inscription at sides and value below on plain ground; figures of value in upper corners. HONOLULU HAWAIIAN IS. at left side, POSTAGE in arch and HAWAIIAN IS. at right side. Col. imp., rect.

a. On white paper. Five cents, blue.

b. On bluish paper. Five cents, blue.

Time of issue, 1853.



4. Similar in design to No. 3, but with figures of value in three corners, and differently disposed inscription. HAWAIIAN—5 cts. at left side, POSTAGE in arch at top, UNITED STATES—8 cts. at right side, HONOLULU HAWAIIAN IS. at foot, Cts. in right lower corner. Col. imp., rect. *Thirteen cents, vermilion on white paper. Time of issue, 1853.*

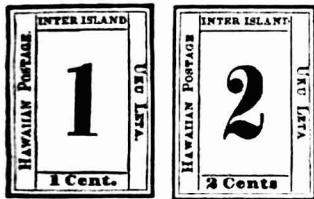
NOTE.—Gray's Catalogue mentions that a specimen of this stamp exists authentically surcharged with a large written figure 5, showing that it had been sold as a 5-cent. stamp. All of Type 4 and many of Type 5 (the first Kamehameha IV 2-cent. stamp) have been surcharged *specimen*, while the 5-cent stamp, Type 3, have been surcharged *cancelled*. This has been done here by the Post-Office authorities, and are only sold as specimen stamps at their full face value. The plates of Type 3 and 4 were received here in 1867, and—we regret to say—have been destroyed.

5. Portrait of King Kamehameha IV to left in military uniform, on arched disk, with inscription UKU LETA above, and value in words at foot on plain ground; numerals in upper corners and foliated border at the sides. Col. imp., rect.

Two cents, vermillion on white.

Time of issue, 1855.

NOTE.—Various albums and Gray's Catalogue calls for two distinct stamps on account of color, but a careful examination of many sheets leads us to the conclusion that it is not so much a separate color with which they have been printed as it is the quantity of ink in the printing. We note that Gray's Catalogue gives the issues of 1862 as a pale rose and of 1863 a carmine, and, what is an entire new idea to us here, that these are lithographs. He gives us an engraved stamp of a vermillion color, but makes this note: "There is no proof that the engraved stamp was ever used. It is known only by reprints or remainders. It may have been prepared for use." This plate is now in the Honolulu Post-Office, but their stock of the stamps are entirely exhausted, having been sold with equal quantities of Type 3 and 4 to dealers in this city.



6. Large numeral of value on rectangular disk, in plain rule or linear inscribed frame; on plain ground. HAWAIIAN POSTAGE at left side, INTER ISLAND at top, UKU LETA at right side, value at bottom. Rect.

- (1) Col. imp. (a) on blue tinted paper, *one cent*, pale blue; *two cents*, pale blue.
 (b) *two cents*, dark blue.
 (2) Blk. imp. (a) on bluish paper, *two cents*, black.
 (b) on white paper, *one cent* black; *two cents* black.

7. Same design as No. 6, but with INTERISLAND in one word at the left side, UKU LETA at top, and HAWAIIAN POSTAGE at the right side. Col. imp., rect., on white paper.

One cent, dark blue; *two cents*, dark blue.

Time of issue 1859-65, or perhaps 66; none later.

NOTE.—The plain bordered numerals are the only ones having inter-island on them, as they were gotten up here to supply the requirements of the law of 1859, establishing inter-island postage. UKU LETA signifies *postage*, and not *paid letter*, or *local tax* as has been assigned to it abroad. Many of these stamps are met with obliterated with pen strokes, which was the method of cancellation by captains of coasters and others when letters were conveyed outside of the Post Office, in accordance with the law. Like Types 1 and 2 these have long since been shipped away among old type metal.

8. Portrait of King Kamehameha IV to left on oval disk in plain dress, in a very neat scrolled inscribed frame, having numerals in the upper corners with HAWAII at the top and ELUA KENETA—signifying *two cents*—in the foot scroll. Col. imp., rect., perf.

Two cents (elua keneta) vermillion.

Time of issue, 1864.

NOTE.—We regret being unable to procure the cut for the above, which was the first perforated stamp, and in design and execution was a remarkably fine engraving.



9. Same design as No. 6, but with different inscription. UKU LETA at top, HAWAIIAN POSTAGE on each side, 5 cents at foot. Col. imp., rect. *Five cents*, dark blue on blue paper. Time of issue, 1865.

10. Same design as No. 7, viz.: with INTERISLAND in one word at the left side, UKU LETA at top and HAWAIIAN POSTAGE at the right, 5 cents at foot. Col. imp., rect.

Five cents, dark blue on blue paper.

Time of issue, 1865.

NOTE.—No. 10 might properly be called an "error stamp," from the fact that our inter-island rates require no such denomination as a 5 cent stamp, and must have occurred by the printers substituting the figure 5 for that of the 1 or 2 in the form that happened to be standing in the office. The idea abroad that some of these issues were in blue on white paper is an error, or that any of these numerals were issued as late as 1867. If so it was not for or from the Post-Office.



11. Similar design to No. 8, but with portrait of King Kamehameha V, full face, in military uniform; numerals in the upper corners, HAWAII in top and ELIMA KENETA in foot scroll. Col. imp., rect., perf.

Five cents (elima keneta) deep blue on white. Time of issue, 1866.

NOTE.—This cut gives but a very poor idea of the stamp described, and shows no perforations.



12. Full-face portrait of Princess Victoria Kaimamalu on oval disk; inscription and value in curved labels above and below, and numerals in circular disks occupying each corner. HAWAII at top, AKAHI KENETA at foot. Col. imp., rect., perf.

One cent (akahi keneta) violet on white. Time of issue, 1871.



13. Portrait of King Kamehameha V to right on shaded oval disk; inscription HAWAII at top in curved label and value in words EONO KENETA at foot; numerals in circular disks at the upper corners. Col. imp., rect., perf.

Six cents (cono keneta) green on white.
Time of issue, 1871.



14. Full-face portrait of His Highness M. Kekuanaoa in similar frame to No. 13. HAWAII at top in curved label between the numerals of value in corners and KENETA at foot on a scroll between numerals of value repeated. Col. imp., rect., perf.

Eighteen cents (keneta), brick red on white.
Time of issue, 1871.

NOTE.—The above six cent stamp, as also the eighteen were gotten up to meet the requirements of the Postal Convention with the United States of May, 1870.

15. Portrait of King Kalakaua, to left on oval disk, in plain dress, with elaborate scroll design borders; numerals in each corner with inscriptions, H. I. POSTAGE curved at the top, and ELUA KENETA in curve at the foot. Col. imp., rect., perf.

Two cents (elua keneta), dark brown on white.
Time of issue, 1875.

16. Portrait of H. R. H. Prince Leleiohoku, to left in uniform, on oval medallion disk, with numerals of value in designed angles at each corner; inscription H. I. POSTAGE in the top curve and KENETA with two stars at each end in the lower curve. Col. imp., rect., perf.

Twelve cents, black on white.
Time of issue, 1875.

NOTE.—This twelve cent stamp was gotten up to meet the requirements of the postal convention with New South Wales of 1874.

☐ Letters of enquiry from abroad must enclose stamps for reply. It is enough for us to give our time to the same without having to pay postage thereon. Postage to the United States 6 cents, to Europe 11 cents, for single rates of half ounce.

SUGAR PLANTATION AGENCIES.

Kaupakuea Plantation.....	Hilo, Hawaii.....	Afong & Achuck
Wailuku Plantation.....	Wailuku, Maui.....	C Brewer & Co
Onomea Plantation.....	Hilo, Hawaii.....	C Brewer & Co
Paukaa Plantation.....	Hilo, Hawaii.....	C Brewer & Co
Princeville Plantation.....	Hanalei, Kauai.....	C Brewer & Co
Hawaiian Agricultural Co...	Kau, Hawaii.....	C Brewer & Co
Kaneohe Plantation.....	Kaneohe, Oahu.....	C Brewer & Co
Kohala Plantation.....	Kohala, Hawaii.....	Castle & Cooke
Haiku Plantation.....	Haiku, Maui.....	Castle & Cooke
Hitchcock & Co's Plantation.....	Hilo, Hawaii.....	Castle & Cooke
Waialua Plantation.....	Waialua, Oahu.....	Castle & Cooke
Hamakua Plantation.....	Hamakua, Maui.....	Castle & Cooke
Kaalaea Plantation.....	Kaalaea, Oahu.....	T H Davies
Hughes' Mill.....	Waialua, Oahu.....	T H Davies
Union Mill Company.....	Kohala, Hawaii.....	T H Davies
Niulii Mill.....	Kohala, Hawaii.....	T H Davies
Hawi Mill.....	Kohala, Hawaii.....	T H Davies
Lidgate & Campbell's Plantation,	Laupahoehoe, Hawaii.....	T H Davies
Hakalau Plantation.....	Hilo, Hawaii.....	Green, Macfarlane & Co
Ookala Plantation.....	Hilo, Hawaii.....	Green, Macfarlane & Co
Spencer's Plantation.....	Hilo, Hawaii.....	Green, Macfarlane & Co
Waikapu Plantation.....	Waikapu, Maui, Green, Macfarlane & Co	
Pioneer Mill.....	Lahaina, Maui.....	H Hackfeld & Co
Waihee Plantation.....	Waihee, Maui.....	H Hackfeld & Co
East Maui Plantation.....	Makawao, Maui.....	H Hackfeld & Co
Koloa Plantation.....	Koloa, Kauai.....	H Hackfeld & Co
Lihue Plantation.....	Lihue, Kauai.....	H Hackfeld & Co
Kilauea Plantation.....	Kilauea, Kauai.....	H Hackfeld & Co
Heeia Plantation.....	Kaneohe, Oahu.....	H Hackfeld & Co
Kealahala Plantation.....	Kaneohe, Oahu.....	H Hackfeld & Co
Hana Plantation.....	Hana, Maui.....	H Hackfeld & Co
Grove Ranch.....	Makawao, Maui.....	H Hackfeld & Co
Grove Farm.....	Puna, Kauai.....	H Hackfeld & Co
Hanamaulu Plantation.....	Puna, Kauai.....	H Hackfeld & Co
Moanui Plantation.....	Molokai.....	H Hackfeld & Co
Kamaloo Plantation.....	Molokai.....	H Hackfeld & Co
Makee Plantation.....	Ulupalakua, Maui.....	W G Irwin & Co
Makee Sugar Company.....	Kealia, Kauai.....	W G Irwin & Co
Naalehu Plantation.....	Kau, Hawaii.....	W G Irwin & Co
Hilea Plantation.....	Kau, Hawaii.....	W G Irwin & Co
Star Mill.....	Kohala, Hawaii.....	W G Irwin & Co

Union Mill.....	Kohala, Hawaii.....	W G Irwin & Co
West Maui Plantation.....	Olowalu, Maui.....	W G Irwin & Co
Honokaa Plantation.....	Hamakua, Hawaii, F A Schaefer & Co	
Halawa Plantation.....	Kohala, Hawaii.....	J T Waterhouse
Laie Plantation.....	Laie, Oahu.....	J T Waterhouse

METEOROLOGICAL RECORD, MAKAWAO, EAST MAUI, 1877.

FURNISHED FOR THIS ANNUAL BY F. L. CLARKE.

Station, ft. above sea level.....	2175	Location...N. slope Mt. Haleakala
Barometer, ft. from ground.....	8	Rain gauge, ft. from ground... 5
Wet and dry bulb thermometers (Fah.), ft. from ground.....		6

BAROMETER.

AVERAGE	DEC.	JAN.	FEB.	MAR.	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.
7 a. m.	30.00	29.98	29.98	29.91	29.94	29.98	30.00	29.95	29.96	30.02	29.97	30.04
9 a. m.	30.04	30.00	30.00	29.94	29.98	30.04	30.02	29.96	29.99	30.04	29.96	30.05
Noon	30.00	29.97	29.96	29.92	29.95	30.00	29.99	29.94	29.96	30.00	29.91	30.02
3 p. m.	29.98	29.93	29.94	29.90	29.92	29.98	29.95	29.92	29.91	29.97	29.89	29.98
6 p. m.	30.02	29.95	29.98	29.94	29.97	30.01	29.99	29.95	29.96	30.00	29.92	30.04
9 p. m.	30.04	30.00	30.02	29.98	30.01	30.06	30.03	30.00	30.04	30.05	29.98	30.07

MONTHLY MEAN.

Dec	29,900	Mar.....	29,930	June	29,972	Sept	30,000
Jan.....	30,028	April	29,986	July.....	29,964	Oct	29,991
Feb	29,980	May	29,965	Aug	29,980	Nov	29,980
Mean of 12 months from Dec. 1, 1876, to Nov. 30, 1877.....	29,975						

THERMOMETERS.

Average for.....	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.
6 a. m. { dry	61.5	60.0	57.8	60.2	61.2	62.1	64.0	65.0	66.6	65.2	63.0	62.3
{ wet	60.0	58.0	54.5	57.1	57.9	56.4	62.0	60.8	62.1	61.8	60.1	60.8
Noon { dry	70.5	67.5	69.0	70.5	71.5	77.0	76.2	79.5	78.8	77.1	75.0	72.1
{ wet	66.6	63.0	64.0	64.3	68.0	71.0	69.0	66.8	70.5	69.8	70.0	67.3
6 p. m. { dry	66.0	61.5	60.2	65.9	66.2	70.2	68.5	67.4	68.2	69.0	68.2	68.2
{ wet	61.4	60.0	58.1	62.2	61.5	66.0	62.0	64.3	65.3	65.1	64.5	62.5

MEAN TEMPERATURE AND HUMIDITY. (100-Saturation).

Months.	Temp.	Hum.	Months.	Temp.	Hum.
December	67.1	.82	June.....	69.8	.80
January	64.1	.88	July.....	71.2	.73
February	64.8	.81	August	72.0	.82
March	65.2	.86	September	71.8	.72
April	66.0	.85	October.....	69.0	.80
May.....	68.8	.77	November.....	67.2	.85

RAIN-FALL IN INCHES AND DECIMALS.

	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.
In first week.....	...	...	2.90	1.50	1.20	.80	.40	3.51	.08	3.30	.25	.15
In second week.....	.90	3.05	.20	.70	2.10	1.35	.25	.41	.50	...	.30	.65
In third week.....	.60	.74	.70	2.00	1.50	7.65	...	...	.02	3.33	.10	...
In fourth week...	1.05	.30	.15	.30	.60	...	...	.84	...	...	.10	...
Balance of month	...	1.00	1.20	.10	.30	...	.60	...	...	...	...	...
Totals.....	2.55	5.09	5.15	4.60	5.70	9.80	1.25	4.76	0.60	6.63	0.75	0.80
Total rain-fall for 12 months.....	47.68 inches											

METEOROLOGICAL RECORD, 1877, HONOLULU,

As Recorded by Capt. D. Smith.

MEAN OF MAXIMUM AND MINIMUM FOR 24 HOURS, CORRECTED FOR
TEMPERATURE AND ELEVATION.

	JANUARY		APRIL		JULY		OCTOBER	
	BAR.	THER.	BAR.	THER.	BAR.	THER.	BAR.	THER.
First week.....	30.02	75.18	30.11	73.45	30.15	75.78	30.10	75.93
Second week.....	29.97	71.29	30.16	73.76	30.12	76.79	30.12	75.78
Third week.....	30.04	70.22	30.12	73.33	30.15	76.78	30.08	76.78
Fourth week.....	30.04	70.15	30.10	73.97	30.11	76.64	30.10	76.20
Balance of m'th	30.02	71.07	30.11	73.76	30.10	76.79	30.05	76.44
	FEBRUARY		MAY		AUGUST		NOVEMBER	
	BAR.	THER.	BAR.	THER.	BAR.	THER.	BAR.	THER.
First week.....	30.12	71.16	30.05	73.61	30.10	76.78	30.11	76.78
Second week.....	30.14	72.76	30.07	74.19	30.12	76.21	30.13	76.61
Third week.....	30.05	72.02	30.06	73.74	30.12	76.21	30.14	76.61
Fourth week.....	30.01	73.12	30.12	74.76	30.11	76.21	30.07	77.11
Balance of m'th			30.16	75.27	30.12	75.78		
	MARCH		JUNE		SEPTEMBER			
	BAR.	THER.	BAR.	THER.	BAR.	THER.		
First week.....	29.95	72.01	30.16	76.33	30.12	75.94		
Second week.....	30.03	72.02	30.08	77.64	30.10	75.78		
Third week.....	30.05	73.32	30.14	76.07	30.08	76.19		
Fourth week.....	30.09	73.33	30.16	75.78	30.10	76.21		
Balance of m'th	30.11	73.09	30.13	75.78	30.08	75.78		

WIND REGISTER, HONOLULU, FOR 1877,—RECORDED BY CAPT. D. SMITH.

	JAN	FEB	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPT.	OCT	NOV	TOTAL
Northerly.....	4	0	2	0	0	0	0	0	0	1	0	7
Northeast trades.....	2	12	10	22	22	27	31	31	20	21	22	220
Easterly.....	8	2	4	4	1	1	0	0	5	9	0	34
Southerly.....	8	8	11	2	3	2	0	0	1	0	7	42
Westerly.....	2	0	1	0	0	0	0	0	0	0	0	3
Variable.....	7	5	2	2	5	0	0	0	4	0	1	26
Calm.....	0	1	1	0	0	0	0	0	0	0	0	2

NOTE.—Captain Smith reports the year throughout as having been a most remarkable one, with high dry trade winds (6-7) prevailing among the islands, interfering considerably with the coasters' traffic, and at the season of the year when they are usually slack and interrupted. In consequence, the barometer shows uniform high readings throughout the year, with less fluctuations than has ever been noted heretofore.

RAIN RECORD, HONOLULU, 1877.

	Nuuanu, W. W. Hall.	Kulaokahua, T. G. Thrum,	Waikiki, Capt. D. Smith.
January	3.24	3.11	3.24
February.....	2.90	2.54	2.90
March.....	.94	0.79	.94
April.....	3.41	3.26	2.27
May.....	7.27	6.67	4.85
June.....	1.14	0.89	.76
July.....	2.27	2.06	1.51
August.....	1.19	0.93	.80
September.....	2.64	2.41	1.76
October.....	1.63	1.22	1.09
November (up to the 26th)	1.83	1.51	1.36

NOTE.—During the months of southerly winds the rain-fall at Waikiki and Nuuanu shows the same, but during the prevalence of "trade" winds the difference is found to be exactly one-third. The compiler's station is midway and shows a medium. All rain-gauges are by the same maker.

TIME-TABLE OF THE PACIFIC MAIL S. S. COMPANY FOR 1878,

For the Direct Steamer, and Through Steamers for the Colonies from San Francisco.

In the absence of full information respecting the time-table of the steamers for 1878, we have prepared the following from data at hand of the change made in the sailing days of the through steamers, from what they were during 1877. The direct steamer—for Honolulu and return—will alternate each month with the through steamers, commencing December 19th. We have no positive information of any change in time from the Colonies, which if as has ruled, will bring them due here about January 1st and every fourth Tuesday thereafter, en route for San Francisco.

LEAVES SAN FRANCISCO	DUE AT HONOLULU	LEAVES SAN FRANCISCO	DUE AT HONOLULU
December..... 19*	December..... 28	July..... 1*	July..... 10
December..... 31	January..... 7	July..... 15	July..... 23
January..... 14*	January..... 23	July..... 29*	August..... 7
January..... 28	February..... 5	August..... 12	August..... 20
February..... 11*	February..... 20	August..... 26*	September..... 4
February..... 25	March..... 5	September..... 9	September..... 17
March..... 11*	March..... 20	September..... 23*	October..... 2
March..... 25	April..... 2	October..... 7	October..... 15
April..... 8*	April..... 17	October..... 21*	October..... 30
April..... 22	April..... 30	November..... 4	November..... 12
May..... 6*	May..... 15	November..... 18*	November..... 27
May..... 20	May..... 28	December..... 2	December..... 10
June..... 3*	June..... 12	December..... 16*	December..... 25
June..... 17	June..... 25	December..... 30	January..... 7

Dates marked thus * indicate the direct steamer; she will remain in port here four days and return.

RETROSPECT OF THE YEAR 1877.

BY THOS. G. THURM.

The year just closing certainly marks an era in the annals of Hawaii, that may justly be attributed to the beneficial effects and workings of the Treaty of Reciprocity with the United States. The confidence it has given to the community has been decidedly felt, not only by the planters and those closely connected with the planting interests, but it has pervaded all classes, and with the new demand for capital to develop the resources of the country, labor has increased in value and though added to considerably from the China and San Francisco markets, the demand far exceeds the supply.

A review of the year 1877, being so marked in its advancement, seems to us quite appropriate to these pages, and especially so for this *centennial issue*.

The list of plantation agencies published on pages 48-9 shows a large increase in number which for a long period stood from 30 to 33. The number noted does not show fully the real increase in this industry, for in nearly all the mill locations various parties are engaged in the co-operation system of cane-planting, to be ground on shares. This is a distinctive feature of the Hawaiian Agricultural Company of Kau, Makee Sugar Company of Kauai, Honokaa Plantation of Hamakua, Wailuku Plantation of Maui, and many others. With this large and rapid extension of the paramount industry of the islands, it is but natural that all else bordering upon it receives its proportion. Sales of real estate have been frequent, several of which have been large tracts and some at figures that last year would have been considered fabulous, thus indicating confidence in the country and the desirability of such investments.

For the movement of freight to and from the various plantations, and to convey the large quantity of lumber, machinery, &c., for their early development, the coasting fleet has received the past year eleven new vessels, with the promise of still others in the near future. The faithful old servant *Kilauea* has been withdrawn, her place being taken by the fine new steamer *Likelike* recently built in San Francisco to the order of the Hawaiian government, and lately purchased by Mr. S. G. Wilder. Of the other new coasters two were built here and two more are now on the stocks to be completed shortly, one of which is a steamer of about 250 tons for Capt. H. Hobron, to be put on the Kahului route, and is the largest vessel yet built here. This has given employment to our shipwrights and has been the means of bringing into the country quite a number of additional hands. Of the balance of the fleet addition four were built

expressly for the trade on the coast, four purchased there for the service and one here from Tahiti.

An indication also of prosperity and on what is generally acknowledged a sound basis, is the balance of foreign trade being in our favor. The imports have been larger than any year previous, especially of European goods, which have been crowded into our market prior to their actual need, in order to escape the additional 15 per cent. duty that went into operation October 12th, 1877; yet notwithstanding, the exports for the year, so far, (10 months) exceeds their amount of value. The tables showing import values we have not been able to arrive at, but of the exports, as published from week to week, we find the following interesting showing, and which indicates faithfully the precedence San Francisco has over other markets both in imports and exports.

From January 1st to November 30th, 1877, San Francisco has received of us domestic produce to the amount of \$1,607,116.10, which has been conveyed in forty-one vessels. The following are the principal articles and their amounts: sugar, 20,290,734 pounds; rice and paddy, 3,324,777 pounds; coffee, 88,107 pounds; bunches bananas, 12,-845; peanuts, 39,840 pounds; pulu, 30,984 pounds; wool, 58,928 pounds; molasses and syrup, 74,082 gallons. Portland and Port Townsend have received, by eleven opportunities, \$243,184.05 value of domestic produce, comprising principally—sugar, 3,114,835 pounds; rice, 206,430 pounds; coffee, 1,596 pounds; peanuts, 25,646 pounds; molasses and syrup, 16,358 gallons. Victoria, B. C., has had two partial cargoes valued at \$7,742.59. Eight shipments have been made to the Colonies amounting to \$7,913.40, while two cargoes have been sent to Europe valued at \$101,343.07, making a total of domestic exports to principal ports of \$1,967,299.31.

The principal class of imports noticeable is that of lumber, of which we have received 5,920,916 feet rough and dressed, 9,854 M shingles, 89,025 posts, 129 M laths and 34,000 pickets. This has been principally from Puget Sound and Humboldt.

Honolulu itself shows evidences of prosperity this year of a more substantial kind than it has ever done before during the same period of time. Dating no further back than six months we find a fine fire-proof building rise from the ashes of the Cosmopolitan Photographic Gallery, corner of Fort and Hotel streets, followed by a row of brick stores by H. McIntyre on the corner of King and extending up Fort street. At about the same time there was erected a handsome two-storied fire-proof building on the Brewer premises corner of Fort and Hotel streets, with two spacious stores on the ground floor. The Honolulu Iron Works have recently made extensive alterations of the

"Ladd" premises adjoining their machine shop, having put the old building in thorough repair, rendering it fire-proof and making a large brick extension to join their present machine shop with it, which will be used as the erecting department.* On Nuuanu street Mr. McLean has put up a brick building between the two erected last year, and on Merchant street, corner of Kaahumanu street, is being erected a fine two-storied brick building for the Bank of Bishop & Co., that for beauty of design and finish far excelleth anything of the kind yet seen here.

The improvements among the residences in and around the city since the opening of the year also deserve mention. On Nuuanu avenue we would note the neat brick cottage of Dr. E. Hoffmann on the lot adjoining his former residence, and the transformation of the latter by Mr. J. D. Brewer into a really fine edifice. Further up the valley is a commodious two-storied dwelling built for Mr. P. C. Jones; just below the Royal Mausoleum Mr. M. P. Robinson has put up a commodious dwelling, while on the opposite side, a little further up and adjoining the Andrews lot is the newly erected residence of Mr. Sam'l Nott. On Beretania street toward the plains a number of dwellings have been erected which is changing the appearance of that portion of the city very much. At the corner of Alapai street in a plot of ground extending from Beretania to Young streets, taking in five lots, stands the new cottage of Mr. E. C. Damon; adjoining this in a two lot plot is the cottage of the writer, while in the next enclosure, of five lots and extending also to Young street, has quite recently been erected the residence of Rev. Dr. Hyde. A little further out on the opposite side, is the new cottage of Mr. C. Hustace, and on King street Mr. E. Preston has just completed a cottage near Little Greenwich. The Queen's Hospital has had a large two-storied extension to its principal building, and on Punchbowl street, opposite its entrance, Mr. J. Fraser has enlarged his cottage, while a

* We may perhaps be pardoned for the seeming digression if we mention some of the principal items turned out at this establishment during the past year, which will, in a measure, show the necessity of the extension.

As intimately connected with the rapid extensions among the various plantations we find, by enquiry, that the Honolulu Iron Works have completed and shipped to different parts of the islands six sugar mills, engines and gearing complete, four or five engines and fittings without mills, four vacuum pans with engines and air pumps complete, twenty-six boilers with all mountings—and ten now in course of construction—half a dozen centrifugals, six or more buoys for harbors and landings, besides clarifiers, precipitators, sugar pans, &c., and various kinds of mill repairing and general work. During the year two mills have been fitted out entirely with everything appertaining to sugar manufacture, and one is now in hand for the new Haiku mill extension, to be completed by May next; also a sugar mill for the Union Mills, Kohala, with rollers 54x26, which is the largest yet made on the islands. The Iron Works Company employ from 110 to 120 hands, and the average disbursement of wages is \$5,000 per month. The copper worms for vacuum and steam pans and other copper work of the establishment have been executed by J. Nott & Co., also of this city.

new two-storied building has been erected in the lot adjoining. The residence of M. Louisson, Esq., corner of Fort and School streets has been enlarged and greatly improved, as has also the residence of C. R. Bishop, Esq., while the change in the grounds has a marked effect. Mr. H. May is now erecting a two-storied brick dwelling on his lot, corner of Beretania and Miller streets. In business extensions we note the new building of the Family Market at the junction of Union and Hotel streets; the alteration of Mr. Bradley's building corner of King and Fort streets, for a new photograph gallery, up stairs; and of the building on King street adjoining Rose's carriage factory, to accommodate his extending business. Mr. Dickson is also making extensive alterations in his photograph gallery on Fort street, in the erection of an up-stairs operating room and other improvements.

In the improvements here mentioned it will be seen that our mechanics have found labor plentiful throughout the year, shipwrights, house-carpenters, masons, machinists, painters and others receiving their share of the benefits enjoyed from an increased agricultural and commercial prosperity.

There have been frequent complaints of dullness in commercial circles, with orders scarce and money tight. Trade in general has felt the inconvenience of this condition of affairs, no doubt brought about by the absorption of all moneys obtainable for the development of sugar growing, and which will be some time before it shows returns. Nevertheless, we hope this is the slow and sure indication of a stable prosperity.

CASUALTIES OF SHIPPING CONNECTED WITH THE PORT OF HONOLULU, For 1876 and 1877.

Schooner Hattie, 50 tons, engaged in the coasting trade between this port and ports on Kauai, went ashore at Nawiliwili, Kauai, January 8th, 1876, with about 200 kegs sugar from the Koloa Plantation, and became a total loss.

January 22d, 1876, schooner Waiola, 34 tons, engaged as a Waialua and Laie packet from this port, was sunk off Laie by being struck by a couple of blind rollers just after leaving the anchorage, whereby she filled and went down; she afterward drifted onto the reef and broke up.

Schooner Active, 89 tons, on returning to this port from Maalaea, Maui, went ashore March 3d, 1876, at 2 a. m. on the reef a little to the

southward of the entrance to this harbor and became a total loss. She had 23 tons of sugar on board at the time from the Waikapu Plantation.

October 20th, 1876, American whaling bark Three Brothers arrived at Honolulu with the report of the loss of thirteen vessels in the Arctic, which had been abandoned in the ice, among which were the whaling barks Arctic and Desmond from this port.

Schooner Iolani engaged as a regular packet between this port and Maliko, Maui, capsized on her second trip from the latter port February 14th, 1877, in the Molokai channel, by which the captain (Powers) and cook were drowned. The vessel was afterwards righted and towed to port by the steamer Kilauea. A short time after resuming her trips she went ashore on East Maui April 6th, 1877, and became a total loss.

American ship Fleetford arrived at Honolulu June 22d, 1877, for repairs, having touched on the reef at Jarvis Island whereby she lost a portion of her stern post. All repairs were done here by the "box" system, without having to heave down or even break cargo.

Schooner Liliu, 33 tons, engaged in coasting around the island of Oahu, lost her rudder off Barber's Point June 7th, 1877, and was carried by the swell onto the reef, where she became a total loss.

American whaling bark Java, cruising in the Arctic, was lost in the ice June 17th; the whaling barks Three Brothers, which left here March 24th, 1877, and W. A. Farnsworth, which left here May 12th, 1877, also shared the same fate later in the season. Fortunately there were no lives lost.

Steamer Likelike during the first few weeks of her running met with several mishaps, among which were the losing of three of the four flanges of her screw in October, 1877, and was obliged to await in port the arrival of a new one which had been ordered. This arrived promptly and she was enabled to resume her trips November 20th.

Schooner Luka, 48 tons, went ashore at Honomuni, Molokai, July 28th, 1877, but by the efforts of a large gang of salvors she was gotten off and her cargo of, principally plantation material, saved. Being repaired and re-entering the coasting service she went ashore again at Wailua, Kauai, during September, and after strenuous efforts to save her became a total loss. Schooner Kinau, sent to render assistance, herself went ashore during a heavy blow of October 11th, but was eventually saved.

Nicaraguan barkentine Christina put into this port November 17th, from Hongkong, en route for Callao, for repairs, having sustained considerable damage in bulwarks, &c., by stress of weather in the China seas.

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