

1964

1964		SUN.	MON.	TUE.	WED.	THU.	FRI.	SAT.	1964		SUN.	MON.	TUE.	WED.	THU.	FRI.	SAT.	
JAN					1	2	3	4	JUL					1	2	3	4	
		5	6	7	8	9	10	11			5	6	7	8	9	10	11	
		12	13	14	15	16	17	18			12	13	14	15	16	17	18	
		19	20	21	22	23	24	25			19	20	21	22	23	24	25	
		26	27	28	29	30	31	..			26	27	28	29	30	31	..	
FEB								1	AUG								1	
		2	3	4	5	6	7	8			2	3	4	5	6	7	8	
		9	10	11	12	13	14	15			9	10	11	12	13	14	15	
		16	17	18	19	20	21	22			16	17	18	19	20	21	22	
		23	24	25	26	27	28	29			23	24	25	26	27	28	29	
MAR		1	2	3	4	5	6	7	SEP				1	2	3	4	5	
		8	9	10	11	12	13	14			6	7	8	9	10	11	12	
		15	16	17	18	19	20	21			13	14	15	16	17	18	19	
		22	23	24	25	26	27	28			20	21	22	23	24	25	26	
		29	30	31	.....						27	28	29	30	.....		
APR					1	2	3	4	OCT						1	2	3	
		5	6	7	8	9	10	11			4	5	6	7	8	9	10	
		12	13	14	15	16	17	18			11	12	13	14	15	16	17	
		19	20	21	22	23	24	25			18	19	20	21	22	23	24	
		26	27	28	29	30	....				25	26	27	28	29	30	31	
MAY							1	2	NOV		1	2	3	4	5	6	7	
		3	4	5	6	7	8	9			8	9	10	11	12	13	14	
		10	11	12	13	14	15	16			15	16	17	18	19	20	21	
		17	18	19	20	21	22	23			22	23	24	25	26	27	28	
		24	25	26	27	28	29	30			29	30	.....				
JUN			1	2	3	4	5	6	DEC				1	2	3	4	5	
		7	8	9	10	11	12	13			6	7	8	9	10	11	12	
		14	15	16	17	18	19	20			13	14	15	16	17	18	19	
		21	22	23	24	25	26	27			20	21	22	23	24	25	26	
		28	29	30						27	28	29	30	31		

MILTON SNEDEKER CORP'N

"Steps Forward in Forwarding"

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Phone: BOWling Green 9-6770

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Ocean Freight Forwarders
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CABLE ADDRESS—MILSNED—NEW YORK

Steps Forward in Forwarding

1919-1964

Efficient documentation is just one of the many means by which an Ocean Freight Forwarder, Custom House Broker and Air Cargo Agent saves you money; frequently he's your personal representative to banks, suppliers, customs officials . . . a recognized traffic expert who knows the best rates, routes and carriers. If you could see the desk of a senior clerk in an established forwarding office, you would be amazed at the details essential to the handling of a single export or import shipment. The activity could be likened to that of a juggler trying to keep ten balls in the air simultaneously.

During the past year, our own company has experienced continued growth and progress. We have kept our customers better advised of important events in the world of shipping through our widely accepted news bulletin, "Stepping Forward". We have also moved our office to more modern, efficient quarters. In these and many other ways, we are constantly striving to serve you, our customers, to the best of our ability. As we enter our 45th year, we realize that this is still the very basis of our existence.

MILTON SNEDEKER CORP'N

IDENTIFICATION

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City..... MONTCLAIR, N.J.

Phone..... PI 4-5409

Bus. Add.....

City.....

Phone.....

Blood Type.....

In case of accident or illness, notify:

Name.....

Street.....

City.....

Phone.....

Insurance Agent.....

Phone.....

Car License No.....

Driver's License No.....

Social Security No.....

NAMES OF THE MONTHS

January was named for Janus, the Roman god who had two faces; one looking into the past and the other into the future.

February comes from the Latin word *Februo*, to purify. It was the time of the year for Roman ceremonies of purification.

March was named for Mars, Roman god of war, and in the time of Romulus it was the first month in the year. In this day there were only ten months in the calendar. These were of uneven lengths, some having less than twenty days and some containing as many as thirty-five days. When Numa became King, which was about 700 years before Christ, he decided that there should be 12 months and added two—January and February—and placed them at the beginning of the calendar; and in that way March became the third month. Among the old Saxons this month was known as *Lenct*, meaning spring, and this is the origin of our word *Lent*.

April is from the Latin word *Aperio*, to open; it is at this season that the flowers and leaves begin to bloom. The Saxons called the month *Easter Month*, in honor of *Easter*, the goddess of spring.

May was named for *Maia*, daughter of the Roman deity *Atlas*.

June was named for the goddess *Juno*.

July for a long time was known by its old name of *Quintilis*, from the Latin meaning five, as it was the fifth month in the ancient calendar of Romulus; but its name was changed to *July* in honor of *Julius Caesar*.

August, too, retained its old name of *Sextilis* (the sixth month) until the time of *Augustus*, who changed it to *August*.

September is from the Latin *septem*, seven; originally the 7th month, it has been the 9th for 2,000 years.

October, November, and December also retain the names by which they were known when there were but ten months in the year, being derived from the Latin words *Octo, Novem, and Decem* — eight, nine, and ten.

NAMES OF THE DAYS

English names for days of the week come from Norse mythology by way of Anglo-Saxon, and for that reason are often similar to the Roman names, which the Teutonic tribes adapted. The Romans named their days after the sun, moon and planets — Mars, Mercury, Jove (Jupiter), Venus and Saturn, which were named after their gods.

Sunday, the sun's day, is the same in German: *Sonntag*. But Italian, French and Spanish name it after the Lord's Day.

Monday, the moon's day, is *Montag* in German (*Mond* moon), but the Latin *luna*, for moon, survives in Italian, French, Spanish.

Tuesday is the day of Tyr, Norse god of war; the French *Mardi* and Italian *Martedì* come from Mars, also Roman god of war.

Wednesday comes from Woden, a Norse god, but the Romance languages derive their words from the Roman Mercury, while the Germans call it *Mittwoch* — midweek.

Thursday is the day of Thor, god of thunder. His Latin equivalent, Jove, accounts for *Giovedì* (Ital.), *Jeudi* (Fr.), *Jueves* (Span.).

Friday is the day of Freya, Norse goddess of marriage. Similarly the Romance languages get their names from Venus, Roman goddess of love.

Saturday is derived from Saturn. In Italian it is *Sabbato*, the Sabbath; *Sabado* in Spanish.

LEGAL HOLIDAYS IN THE STATES, D.C., and PUERTO RICO

Each State has jurisdiction over the holidays it will observe. They are designated either by legislative act or executive proclamation. The President and Congress designate only for the District of Columbia and Federal employees throughout the nation.

JAN. 1 — New Year's Day. All the States, D.C., Puerto Rico.

JAN. 19 — Robert E. Lee's Birthday. Ala., Ark., Fla., Ga., Ky., La., Miss., N.C., S.C., Tenn., Tex.; Lee-Jackson Day in Virginia.

JAN. 20 — Inauguration Day. District of Columbia. Beginning 1937 and every fourth year thereafter.

FEB. 12 — Lincoln's Birthday. All the States, except Ala., D.C., Fla., Ga., Hawaii, Idaho, La., Me., Mass., Miss., N.H., N.C., Okla., R.I., S.C., Tex., Va. (In Ark., a memorial day)

FEB. 22 — Washington's Birthday. All the States (Presidents' Day in Hawaii), D.C., Puerto Rico.

MAR. 30 — Seward's Day. In Alaska.

LEGAL HOLIDAYS—Continued

GOOD FRIDAY — Ark. (a memorial day), Conn., Del., Fla., Hawaii, Ill., Ind., La., Md., Minn., N.J., N.D., Pa., Tenn., Puerto Rico. In California and Wisconsin after 12 noon.

APRIL 13 — Thomas Jefferson's Birthday. Ala., Mo., and Nebr. (a memorial day).

APRIL 19 — Patriots' Day. Me., Mass.

APRIL 26 — Confederate Memorial Day. Ala., Fla., Ga., Miss.

MAY 10 — Confederate Memorial Day. N.C., S.C.

MAY 30 — Memorial Day. All the States (except Ala., Ga., Miss., S.C., Texas), D.C., Puerto Rico.

JUNE 3 — Jefferson Davis' Birthday. Ala., Fla., Ga., Miss., S.C., Texas.

Confederate Memorial Day. Ky., La., Tenn., (Ark., a memorial day).

JULY 4 — Independence Day. All the States, D.C., Puerto Rico.

LABOR DAY — First Monday in Sept. All the States, D.C., Puerto Rico.

LEGAL HOLIDAYS—Continued

OCT. 12 — Columbus Day. All the States and Puerto Rico except D.C., Hawaii, Idaho, Me., Miss., N.C., Okla., S.C., S.D., Tenn. and Va. (Ala., Ark., Ind., Iowa, Mich., N.D., Ore., Wisc., and Wyo. observe special holiday this date)

OCT. 18 — Alaska Day. In that State.

GENERAL ELECTION DAY — First Tuesday after the first Monday in November. All the States (Ohio after 12 noon) and Puerto Rico, except Ala., Alaska, Conn., D.C., Ga., Idaho, Kan., Ky., Mass., Minn., Miss., Nebr., N.M., Utah, Vt. Observed usually only when presidential or general elections are held.

NOV. 11 — Veteran's Day. All the States, D.C., Puerto Rico.

THANKSGIVING DAY — Fourth Thursday in November. All the States, D.C., Puerto Rico.

DEC. 25 — Christmas Day. All the States, D.C., Puerto Rico.

DAYS USUALLY OBSERVED

Not Legal Holidays

ARMED FORCES DAY — Third Saturday
in May.

CITIZENSHIP DAY — September 17

FATHER'S DAY — Third Sunday in June.

FLAG DAY — June 14. (Legal in Pa.)

MOTHER'S DAY — Second Sunday in May.

UNITED NATIONS DAY — October 24.

WEDDING ANNIVERSARIES

Traditional List Recommended by Social Authorities

1st	Paper	13th	Lace
2nd	Cotton	14th	Ivory
3rd	Leather	15th	Crystal
4th	Fruit and Flowers	20th	China
5th	Wooden	25th	Silver
6th	Sugar and Candy, Iron	30th	Pearl
7th	Woolen or Copper	35th	Coral
8th	Bronze or Pottery	40th	Ruby
9th	Willow or Pottery	45th	Sapphire
10th	Tin or Aluminum	50th	Golden
11th	Steel	55th	Emerald
12th	Silk or Linen	60th	Diamond
		75th	Diamond

POINTS OF CONSTITUTIONAL LAW

Congress must meet at least once a year.

Congress may admit as many new states as desired.

One State cannot undo the act of another.

By the Constitution every citizen is guaranteed a speedy trial by jury.

Congress cannot pass a law to punish for a crime already committed.

A person who commits a felony in one State cannot find refuge in another.

Treaties with foreign powers are made by the President and ratified by the Senate.

The territories each have a delegate to Congress who is allowed the privilege of debate, but not the right to vote.

The Vice-President, who ex-officio presides over the Senate has no vote in that body except in case of a tie ballot.

If the President holds a bill longer than ten days while Congress is in session it becomes a law without his signature.

An act of Congress cannot become a law over the President's veto except on a two-thirds vote of both houses.

The House of Representatives may impeach the President for any crime, but the Senate has the sole power to try all impeachments.

Amendments to the Constitution of the United States require a two-third vote of each House of Congress, and must be ratified by at least three-fourths of the States.

The President of the United States must be at least 35 years of age; a Senator, 30; a Congressman, 25; The President must have been a resident of the United States fourteen years.

A naturalized citizen is not eligible to the office of President of the United States. A male child born in a foreign land to American parents has an equal chance to become the President with one born on American soil.

The United States shall guarantee to every State a Republican form of government, and shall protect each of them against invasion, and on application of the Legislature or of the Executive (when the Legislature cannot be convened), against domestic trouble.

OFFICIAL 1960 CENSUS CITIES OF 25,000 AND OVER

Compiled by U. S. Dept. of
Commerce, Bureau of the Census

ALABAMA

Anniston	33,657
Bessemer	33,054
Birmingham	340,887
Decatur	29,217
Dothan	31,440
Florence	31,649
Gadsden	58,088
Huntsville	72,365
Mobile	202,779
Montgomery	134,393
Phenix City	27,630
Prichard	47,371
Selma	28,385
Tuscaloosa	63,370

ALASKA

Anchorage	44,237
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ARIZONA

Mesa	33,772
Phoenix	439,170
Tucson	212,892

ARKANSAS

El Dorado	25,292
Fort Smith	52,991
Hot Springs	28,337
Little Rock	107,813
N. Little Rock	58,032
Pine Bluff	44,037

CALIFORNIA

Alameda	63,855
Alhambra	54,807
Anaheim	104,184
Arcadia	41,005
Bakersfield	56,848
Baldwin Park	33,951
Bellflower	45,909
Berkeley	111,268
Beverly Hills	30,817
Buena Park	46,401
Burbank	90,155
Chula Vista	42,034
Compton	71,812
Concord	36,208
Costa Mesa	37,550
Culver City	32,163
Daly City	44,791
Downey	82,505

El Cajon	37,618
El Cerrito	25,437
Eureka	28,137
Fremont	43,790
Fresno	133,929
Fullerton	56,180
Gardena	35,943
Garden Grove	84,238
Glendale	119,442
Hawthorne	33,035
Hayward	72,700
Huntington Park	29,920
Inglewood	63,390
La Habra	25,136
Lakewood	67,126
La Mesa	30,441
Long Beach	344,168
Los Angeles	2,479,015
Lynwood	31,614
Manhattan Beach	33,934
Menlo Park	26,957
Modesto	36,585
Monrovia	27,079
Montebello	32,097
Monterey Park	37,821
Mountain View	30,889
National City	32,771
Newport Beach	26,564
Norwalk	88,739
Oakland	367,548
Ontario	46,617
Orange	26,444
Oxnard	40,265
Palo Alto	52,287
Paramount	27,249
Pasadena	116,407
Pico Rivera	49,150
Pomona	67,157
Redlands	26,829
Redondo Beach	46,986
Redwood City	46,290
Richmond	71,854
Riverside	84,332
Sacramento	191,667
Salinas	28,957
San Bernardino	91,922
San Bruno	29,063
S. Buenaventura	29,114

CENSUS — Continued

San Diego	573,224	Fort Lauderdale	83,648
San Francisco	740,316	Fort Pierce	25,256
San Jose	204,196	Gainesville	29,701
San Leandro	65,962	Hialeah	66,972
San Mateo	69,870	Hollywood	35,237
Santa Ana	100,350	Jacksonville	201,030
Santa Barbara	58,768	Key West	33,956
Santa Clara	58,880	Lakeland	41,350
Santa Cruz	25,596	Miami	291,688
Santa Monica	83,249	Miami Beach	63,145
Santa Rosa	31,027	North Miami	28,708
South Gate	53,831	Orlando	88,135
S. San Francisco	39,418	Panama City	33,275
Stockton	86,321	Pensacola	56,752
Sunnyvale	52,898	St. Petersburg	181,298
Torrance	100,991	Sarasota	34,083
Vallejo	60,877	Tallahassee	48,174
West Covina	50,645	Tampa	274,970
Westminster	25,750	W. Palm Beach	56,208
Whittier	33,663		
COLORADO			
Aurora	48,548	Albany	55,890
Boulder	37,718	Athens	31,355
Colorado Springs	70,194	Atlanta	487,455
Denver	493,887	Augusta	70,626
Englewood	33,398	Columbus	116,779
Fort Collins	25,027	East Point	35,633
Greeley	26,314	Macon	69,764
Pueblo	91,181	Marietta	25,565
CONNECTICUT			
Bridgeport	156,748	Rome	32,226
Bristol	45,499	Savannah	149,245
Hartford	162,178	Valdosta	30,652
Meriden	51,850	HAWAII	
Middletown	33,250	Hilo	25,966
Milford	41,662	Honolulu	294,194
New Britain	82,201	IDAHO	
New Raven	152,048	Boise City	34,481
New London	34,182	Idaho Falls	33,161
Norwalk	67,775	Pocatello	28,534
Norwich	38,506	ILLINOIS	
Stamford	92,713	Alton	43,047
Torrington	30,045	Arlington Heights	27,878
Waterbury	107,130	Aurora	63,715
DELAWARE			
Wilmington	95,827	Belleville	37,264
DISTRICT OF COLUMBIA			
Washington	763,956	Berwyn	54,224
FLORIDA			
Clearwater	34,653	Bloomington	36,271
Coral Gables	34,793	Calumet City	25,000
Daytona Beach	37,395	Champaign	49,583
		Chicago	3,550,404
		Chicago Heights	34,331
		Cicero	69,130
		Danville	41,856
		Decatur	78,004
		Des Plaines	34,886

CENSUS — Continued

East St. Louis	81,712
Elgin	49,447
Elmhurst	36,991
Evanston	79,283
Freeport	26,828
Galesburg	37,243
Granite City	40,073
Harvey	29,071
Highland Park	25,532
Joliet	66,780
Kankakee	27,666
Maywood	27,330
Moline	42,705
Oak Lawn	27,471
Oak Park	61,093
Park Forest	29,993
Park Ridge	32,659
Pekin	28,146
Peoria	103,162
Quincy	43,793
Rockford	126,706
Rock Island	51,863
Skokie	59,364
Springfield	83,271
Urbana	27,294
Waukegan	55,719
Wilmetta	28,268

INDIANA

Anderson	49,061
Bloomington	31,357
East Chicago	57,669
Elkhart	40,274
Evansville	141,543
Fort Wayne	161,776
Gary	178,320
Hammond	111,698
Indianapolis	476,258
Kokomo	47,197
Lafayette	42,330
Marion	37,854
Michigan City	36,653
Mishawaka	33,361
Muncie	68,603
New Albany	37,812
Richmond	44,149
South Bend	132,445
Terre Haute	72,500

IOWA

Ames	27,003
Burlington	32,430
Cedar Rapids	92,035
Clinton	33,589
Council Bluffs	55,641
Davenport	88,981

Des Moines	208,982
Dubuque	56,606
Fort Dodge	28,399
Iowa City	33,443
Mason City	30,642
Ottumwa	33,871
Sioux City	89,159
Waterloo	71,755

KANSAS

Hutchinson	37,574
Kansas City	121,901
Lawrence	32,858
Prairie Village	25,356
Salina	43,202
Topeka	119,484
Wichita	254,698

KENTUCKY

Ashland	31,283
Bowling Green	28,338
Covington	60,378
Lexington	62,810
Louisville	390,639
Newport	30,070
Owensboro	42,471
Paducah	34,479

LOUISIANA

Alexandria	40,279
Baton Rouge	152,419
Bossier City	32,776
Lafayette	40,400
Lake Charles	63,392
Monroe	52,219
New Iberia	29,062
New Orleans	627,525
Shreveport	164,372

MAINE

Bangor	38,912
Lewiston	40,804
Portland	72,566

MARYLAND

Baltimore	939,024
Cumberland	33,415
Hagerstown	36,660
Rockville	26,090

MASSACHUSETTS

Attleboro	27,118
Beverly	36,108
Boston	697,197
Brockton	72,813
Cambridge	107,716
Chelsea	33,749
Chicopee	61,553

CENSUS — Continued

Everett	43,544
Fall River	99,942
Fitchburg	43,021
Gloucester	25,789
Haverhill	46,346
Holyoke	52,689
Lawrence	70,933
Leominster	27,929
Lowell	92,107
Lynn	94,478
Malden	57,676
Medford	64,971
Melrose	29,619
New Bedford	102,477
Newton	92,384
Northampton	30,058
Peabody	32,202
Pittsfield	57,879
Quincy	87,409
Revere	40,080
Salem	39,211
Somerville	94,697
Springfield	174,463
Taunton	41,132
Waltham	66,413
Westfield	26,302
Woburn	31,214
Worcester	186,587

MICHIGAN

Allen Park	37,494
Ann Arbor	87,340
Battle Creek	44,169
Bay City	63,604
Birmingham	25,525
Dearborn	112,007
Detroit	1,670,144
East Detroit	45,756
East Lansing	30,198
Ferndale	31,347
Flint	196,940
Garden City	38,017
Grand Rapids	177,313
Hamtramck	34,137
Hazel Park	25,631
Highland Park	38,063
Inkster	39,097
Jackson	50,720
Kalamazoo	82,089
Lansing	107,807
Lincoln Park	53,933
Livonia	66,702
Madison Heights	33,343
Midland	27,779
Muskegon	46,485

Oak Park	36,632
Pontiac	82,233
Port Huron	36,084
Roseville	50,195
Royal Oak	80,612
Saginaw	98,265
St. Clair Shores	78,657
Southfield	31,501
Southgate	29,404
Warren	89,246
Wyandotte	43,519
Wyoming	45,829

MINNESOTA

Austin	27,908
Bloomington	50,498
Duluth	106,884
Edina	28,501
Minneapolis	482,872
Minnetonka	25,037
Richfield	42,523
Rochester	40,603
St. Cloud	33,815
St. Louia Park	43,310
St. Paul	313,411

MISSISSIPPI

Biloxi	44,053
Greenville	41,502
Gulfport	30,204
Hattiesburg	34,989
Jackson	144,422
Laurel	27,889
Meridian	49,374
Vicksburg	29,143

MISSOURI

Columbia	36,650
Florissant	38,166
Independence	62,328
Jefferson City	28,228
Joplin	38,958
Kansas City	475,539
Kirkwood	29,421
St. Joseph	79,673
St. Louis	750,026
Springfield	95,865
University City	61,249
Webster Groves	28,990

MONTANA

Billings	52,851
Butte	27,877
Great Falls	55,357
Missoula	27,090

NEBRASKA

Grand Island	25,742
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CENSUS — Continued

Lincoln 128,521
 Omaha 301,598

NEVADA

Las Vegas 64,405
 Reno 51,470

NEW HAMPSHIRE

Concord 28,991
 Manchester 88,282
 Nashua 39,096
 Portsmouth 25,833

NEW JERSEY

Atlantic City 59,544
 Bayonne 74,215
 Belleville 35,005
 Bergenfield 27,203
 Bloomfield 51,867
 Camden 117,159
 Clifton 82,084
 East Orange 77,259
 Elizabeth 107,698
 Englewood 26,057
 Fair Lawn 36,421
 Garfield 29,253
 Hackensack 30,521
 Hoboken 48,441
 Irvington 59,379
 Jersey City 276,101
 Kearny 37,472
 Linden 39,931
 Long Branch 26,228
 Montclair 43,129
 Newark 405,220
 New Brunswick 40,139
 Nutley 29,513
 Orange 35,789
 Passaic 53,963
 Paterson 143,663
 Perth Amboy 38,007
 Plainfield 45,330
 Rahway 27,699
 Ridgewood 25,391
 Trenton 114,167
 Union City 52,180
 Vineland 37,685
 Westfield 31,447
 West New York 35,547
 West Orange 39,895

NEW MEXICO

Albuquerque 201,189
 Carlsbad 25,541
 Hobbs 26,275
 Las Cruces 29,367
 Roswell 39,593
 Santa Fe 34,676

NEW YORK

Albany 129,726
 Amsterdam 28,772
 Auburn 35,249
 Binghamton 75,941
 Buffalo 532,759
 Elmira 46,517
 Freeport 34,419
 Hempstead 34,641
 Ithaca 28,799
 Jamestown 41,818
 Kingston 29,260
 Lackawanna 29,564
 Lockport 26,443
 Long Beach 26,473
 Mount Vernon 76,010
 Newburgh 30,979
 New Rochelle 78,812
 N. Y. City 7,781,984
 Niagara Falls 102,394
 N. Tonawanda 34,757
 Poughkeepsie 38,330
 Rochester 318,611
 Rockville Centre 26,355
 Rome 51,646
 Schenectady 81,682
 Syracuse 216,038
 Troy 67,492
 Utica 100,410
 Valley Stream 38,629
 Watertown 33,306
 White Plains 50,485
 Yonkers 190,634

NORTH CAROLINA

Asheville 60,192
 Burlington 33,199
 Charlotte 201,564
 Durham 78,302
 Fayetteville 47,106
 Gastonia 37,276
 Goldsboro 28,873
 Greensboro 119,574
 High Point 62,063
 Raleigh 93,931
 Rocky Mount 32,147
 Wilmington 44,013
 Wilson 28,753
 Winston-Salem 111,135

NORTH DAKOTA

Bismarck 27,670
 Fargo 46,662
 Grand Forks 34,451
 Minot 30,604

CENSUS — Continued

OHIO

Akron	290,351
Alliance	28,362
Barberton	33,805
Canton	113,631
Cincinnati	502,550
Cleveland	876,050
Cleveland Heights	61,813
Columbus	471,316
Cuyahoga Falls	47,922
Dayton	262,332
East Cleveland	37,991
Elyria	43,782
Euclid	62,998
Findlay	30,344
Garfield Heights	38,455
Hamilton	72,354
Kettering	54,462
Lakewood	66,154
Lancaster	29,916
Lima	51,037
Lorain	68,932
Mansfield	47,325
Maple Heights	31,667
Marion	37,079
Massillon	31,236
Middletown	42,115
Newark	41,790
Norwood	34,580
Parma	82,845
Portsmouth	33,637
Sandusky	31,989
Shaker Heights	36,460
South Euclid	27,569
Springfield	82,723
Steubenville	32,495
Toledo	318,008
Upper Arlington	28,486
Warren	59,648
Youngstown	166,689
Zanesville	39,077

OKLAHOMA

Bartlesville	27,893
Enid	38,859
Lawton	61,697
Midwest City	36,058
Muskogee	38,059
Norman	33,412
Oklahoma City	324,253
Tulsa	261,685

OREGON

Eugene	50,977
Portland	372,676
Salem	49,142

PENNSYLVANIA

Aliquippa	25,369
Allentown	108,347
Altoona	69,407
Bethlehem	75,408
Chester	63,658
Easton	31,956
Erie	138,440
Harrisburg	79,697
Hazleton	32,056
Johnstown	53,949
Lancaster	61,055
Lebanon	30,045
McKeesport	45,489
New Castle	44,790
Norristown	38,925
Philadelphia	2,002,512
Pittsburgh	604,332
Pottstown	26,144
Reading	98,177
Scranton	111,443
Sharon	25,267
West Mifflin	27,289
Wilkes-Barre	63,551
Wilkesburg	30,066
Williamsport	41,967
York	54,504

RHODE ISLAND

Cranston	66,766
East Providence	41,965
Newport	47,049
Pawtucket	81,001
Providence	207,498
Warwick	68,504
Woonsocket	47,080

SOUTH CAROLINA

Anderson	41,316
Charleston	65,925
Columbia	97,433
Greenville	66,188
Rock Hill	29,404
Spartanburg	44,352

SOUTH DAKOTA

Rapid City	42,399
Sioux Falls	65,466

TENNESSEE

Chattanooga	130,009
Jackson	34,376
Johnson City	31,187
Kingsport	26,314
Knoxville	111,827
Memphis	497,524
Nashville	170,874
Oak Ridge	27,169

CENSUS — Continued

TEXAS

Abilene	90,368
Amarillo	137,969
Arlington	44,775
Austin	186,545
Baytown	28,159
Beaumont	119,175
Big Spring	31,230
Brownsville	48,040
Bryan	27,542
Corpus Christi	167,690
Dallas	679,684
Denton	26,844
El Paso	276,687
Fort Worth	356,268
Galveston	67,175
Garland	38,501
Grand Prairie	30,386
Harlingen	41,207
Houston	938,219
Irving	45,985
Kingsville	25,297
Laredo	60,678
Longview	40,050
Lubbock	128,691
McAllen	32,728
Mesquite	27,526
Midland	62,625
Odessa	80,338
Orange	25,605
Pasadena	58,737
Port Arthur	66,676
San Angelo	58,815
San Antonio	587,718
Temple	30,419
Texarkana	30,218
Texas City	32,065
Tyler	51,230
Victoria	33,047
Waco	97,808
Wichita Falls	101,724

UTAH

Ogden	70,197
Provo	36,047
Salt Lake City	189,454

VERMONT

Burlington	35,531
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VIRGINIA

Alexandria	91,023
Charlottesville	29,427
Danville	46,577
Hampton	89,258
Lynchburg	54,790

Newport News	113,662
Norfolk	304,869
Petersburg	36,750
Portsmouth	114,773
Richmond	219,958
Roanoke	97,110

WASHINGTON

Bellingham	34,688
Bremerton	28,922
Everett	40,304
Seattle	557,087
Spokane	181,608
Tacoma	147,979
Vancouver	32,464
Yakima	43,284

WEST VIRGINIA

Charleston	85,796
Clarksburg	28,112
Fairmont	27,477
Huntington	83,627
Parkersburg	44,797
Weirton	28,201
Wheeling	53,400

WISCONSIN

Appleton	48,411
Beloit	32,846
Eau Claire	37,987
Fond du Lac	32,719
Green Bay	62,888
Janesville	35,164
Kenosha	67,899
La Crosse	47,575
Madison	126,706
Manitowoc	32,275
Milwaukee	741,324
Oshkosh	45,110
Racine	89,144
Sheboygan	45,747
Superior	33,563
Waukesha	30,004
Wausau	31,943
Wauwatosa	56,923
West Allis	68,157

WYOMING

Casper	38,930
Cheyenne	43,505

U. S. TERRITORIES

Amer. Samoa	20,051
Canal Zone	42,122
Guam	67,044
Puerto Rico	2,349,544
Virgin Islands	32,099

TRAVELING DISTANCES

CITY	Boston, Mass.	Chicago, Ill.	Denver, Colo.	Los Angeles, Calif.	New Orleans, La.	New York, N. Y.	Seattle, Wash.	Tampa, Fla.	Washington, D. C.
Atlanta, Ga.	1103	715	1446	2289	523	885	2808	471	656
Baltimore, Md.	409	688	1636	2726	1173	191	2816	1006	38
Birmingham, Ala.	1213	675	1362	2122	365	995	2719	557	769
Bismarck, N. Dak.	1869	871	725	1733	1653	1706	1298	2020	1564
Boise, Idaho	2792	1772	855	893	2187	2585	539	2797	2460
Boston, Mass.		998	2035	3099	1583	218	3119	1419	443
Buffalo, N. Y.	460	538	1566	2642	1275	373	2659	1349	376
Carson City, Nev.	3000	1998	1062	454	2183	2817	796	2848	2677
Cheyenne, Wyo.	1980	982	103	1191	1413	1798	1313	1941	1658
Chicago, Ill.	998		1028	2128	957	832	2121	1184	693
Cincinnati, Ohio	877	294	1179	2294	843	655	2422	946	502
Cleveland, Ohio	648	346	1370	2451	1084	500	2467	1175	362
Columbia, S. C.	921	806	1658	2515	742	703	2934	505	478
Dallas, Texas	1849	971	804	1450	504	1632	2220	1120	1403
Denver, Colo.	2035	1028		1194	1310	1791	1397	1919	1635
Des Moines, Iowa	1340	342	685	1828	1020	1166	1946	1370	1032
Detroit, Mich.	716	269	1313	2425	1099	628	2390	1202	518
El Paso, Texas	2433	1483	643	810	1124	2223	1799	1765	2058
Helena, Mont.	2506	1508	838	1234	2151	2340	613	2690	2207
Houston, Texas	1892	1111	1048	1570	366	1675	2464	1008	1446

IN THE UNITED STATES

Indianapolis, Ind.	949	184	1062	2150	845	725	2312	1019	573
Jackson, Miss.	1470	760	1226	1869	195	1248	2639	684	1022
Kansas City, Mo.	1438	505	623	1621	850	1214	1990	1282	1070
Little Rock, Ark.	1505	660	1040	1710	438	1285	2402	952	1059
Los Angeles, Calif.	3099	2128	1194		1937	2875	1179	2614	2664
Louisville, Ky.	983	297	1161	2215	732	766	2425	911	613
Memphis, Tenn.	1366	547	1106	1846	408	1146	2431	813	920
Miami, Fla.	1568	1389	2150	2856	887	1346	3505	269	1118
Milwaukee, Wis.	1086	88	1048	2191	1037	920	2048	1272	781
Mpls.-St. Paul, Minn.	1416	418	856	2017	1281	1250	1703	1568	1112
New Orleans, La.	1583	957	1310	1937		1361	2727	647	1135
New York, N. Y.	218	832	1791	2875	1361	1512	2953	1197	225
Oklahoma City, Okla.	1730	844	623	1348	689	1296	2037	1302	1360
Omaha, Nebr.	1480	482	546	1702	1059	88	1803	1495	1157
Philadelphia, Pa.	306	757	1744	2874	1276	2522	2878	1109	141
Phoenix, Ariz.	2744	1792	838	392	1544	1628	1452	2220	2369
Pierre, S. Dak.	1791	793	587	1601	1469	368	2585	1126	232
Pittsburgh, Pa.	586	464	1422	2588	1116	3053	186	3205	2925
Portland, Ore.	3216	2218	1304	993	2653	497	3006	701	268
Raleigh, N. C.	715	831	1750	2710	936	339	2917	858	110
Richmond, Va.	557	785	1744	2777	1072	339	2917	858	110
St. Louis, Mo.	1189	295	878	1901	715	965	2213	1021	814
Salt Lake City, Utah.	2455	1454	518	738	1788	2272	910	2413	2132
San Francisco, Calif.	3213	2212	1276	401	2297	3030	862	2948	2890
Santa Fe, N. Mex.	2295	1324	367	859	1149	2071	1542	1767	1931
Seattle, Wash.	3119	2121	1397	1179	2727	2953		3286	2835
Tampa, Fla.	1419	1184	1919	2614	647	1197	3286	968	968
Washington, D. C.	443	693	1635	2664	1135	225	2835	1392	1289
Wichita, Kans.	1665	733	517	1394	862	1441	1928		

THE UNITED STATES OF AMERICA

State	Capital	Entered Union	Rank By Area
Ala.....	Montgomery..	1819, Dec. 14	29
Alaska	Juneau.....	1959, Jan. 3	1
Ariz....	Phoenix.....	1912, Feb. 14	6
Ark....	Little Rock...	1836, June 15	27
Cal.....	Sacramento...	1850, Sept. 9	3
Colo....	Denver.....	1876, Aug. 1	8
Conn...	Hartford.....	1788, Jan. 9	48
Del.....	Dover.....	1787, Dec. 7	49
Fla.....	Tallahassee...	1845, Mar. 3	22
Ga.....	Atlanta.....	1788, Jan. 2	21
Hawaii	Honolulu.....	1959, Aug. 21	47
Idaho..	Boise.....	1890, July 3	13
Ill.....	Springfield....	1818, Dec. 3	24
Ind....	Indianapolis..	1816, Dec. 11	38
Iowa...	Des Moines...	1846, Dec. 28	25
Kan....	Topeka.....	1861, Jan. 29	14
Ky.....	Frankfort....	1792, June 1	37
La.....	Baton Rouge..	1812, Apr. 30	31
Me.....	Augusta.....	1820, Mar. 15	39
Md.....	Annapolis....	1788, Apr. 28	42
Mass...	Boston.....	1788, Feb. 6	45
Mich...	Lansing.....	1837, Jan. 26	23
Minn...	St. Paul.....	1858, May 11	12
Miss....	Jackson.....	1817, Dec. 10	32
Mo.....	Jefferson City.	1821, Aug. 10	19
Mont...	Helena.....	1889, Nov. 8	4
Nebr...	Lincoln.....	1867, Mar. 1	15
Nev....	Carson City...	1864, Oct. 31	7
N. H...	Concord.....	1788, June 21	44
N. J....	Trenton.....	1787, Dec. 18	46
N. M...	Santa Fe.....	1912, Jan. 6	5
N. Y...	Albany.....	1788, July 26	30

THE UNITED STATES OF AMERICA

Continued

State	Capital	Entered Union	Rank By Area
N. C...	Raleigh.....	1789, Nov. 21	28
N. D...	Bismarck.....	1889, Nov. 2	17
Ohio...	Columbus.....	1803, Mar. 1	35
Okla....	Oklahoma City	1907, Nov. 16	18
Ore.....	Salem.....	1859, Feb. 14	10
Pa.....	Harrisburg....	1787, Dec. 12	33
R. I.	Providence....	1790, May 29	50
S. C....	Columbia.....	1788, May 23	40
S. D....	Pierre.....	1889, Nov. 2	16
Tenn...	Nashville.....	1796, June 1	34
Texas..	Austin.....	1845, Dec. 29	2
Utah...	Salt Lake City	1896, Jan. 4	11
Vt.....	Montpelier...	1791, Mar. 4	43
Va.....	Richmond.....	1788, June 26	36
Wash...	Olympia.....	1889, Nov. 11	20
W. Va..	Charleston....	1863, June 20	41
Wisc....	Madison.....	1848, May 29	26
Wyo....	Cheyenne....	1890, July 10	9

WASHINGTON DISTRICT OF COLUMBIA

Land ceded to Congress: 1788 by Maryland; 1789 by Virginia (retroceded to Virginia Sept. 7, 1846).

Seat of government transferred to D. C.: Dec. 1, 1800.

Created municipal corporation: Feb. 21, 1871.

Present form of government established: June 11, 1878.

STANDARD TIME DIFFERENCES

At 12 o'clock noon Eastern Standard Time standard time in U. S. cities is as follows:

Atlanta, Ga.....	12.00 noon
Baltimore, Md.....	12.00 noon
Birmingham, Ala.....	11.00 a.m.
Boston, Mass.....	12.00 noon
Buffalo, N. Y.....	12.00 noon
Charleston, S. C.....	12.00 noon
Chicago, Ill.....	11.00 a.m.
Cincinnati, Ohio.....	12.00 noon
Cleveland, Ohio.....	12.00 noon
Dallas, Tex.....	11.00 a.m.
Denver, Colo.....	10.00 a.m.
Detroit, Mich.....	12.00 noon
Fort Worth, Tex.....	11.00 a.m.
Galveston, Tex.....	11.00 a.m.
Honolulu, Hawaii.....	7.00 a.m.
Houston, Tex.....	11.00 a.m.
Indianapolis, Ind.....	12.00 noon
Juneau, Alaska.....	7.00 a.m.
Kansas City, Mo.....	11.00 a.m.
Los Angeles, Calif.....	9.00 a.m.
Louisville, Ky.....	12.00 noon
Memphis, Tenn.....	11.00 a.m.
Miami, Fla.....	12.00 noon
Milwaukee, Wis.....	11.00 a.m.
Minneapolis, Minn.....	11.00 a.m.
New York, N. Y.....	12.00 noon
New Orleans, La.....	11.00 a.m.
Omaha, Nebr.....	11.00 a.m.
Philadelphia, Pa.....	12.00 noon
Phoenix, Ariz.....	10.00 a.m.
Pittsburgh, Pa.....	12.00 noon
Portland, Me.....	12.00 noon
Portland, Ore.....	9.00 a.m.
Reno, Nev.....	9.00 a.m.
St. Louis, Mo.....	11.00 a.m.
San Francisco, Calif.....	9.00 a.m.
Seattle, Wash.....	9.00 a.m.
Spokane, Wash.....	9.00 a.m.
Washington, D. C.....	12.00 noon

ROMAN AND ARABIC NUMERALS

I.....	1	XX.....	20
II.....	2	XXX.....	30
III.....	3	XL.....	40
IV.....	4	L.....	50
V.....	5	LX.....	60
VI.....	6	LXX.....	70
VII.....	7	LXXX or XXC.....	80
VIII.....	8	XC.....	90
IX.....	9	C.....	100
X.....	10	CC.....	200
XI.....	11	CCC.....	300
XII.....	12	CD.....	400
XIII.....	13	D.....	500
XIV.....	14	DC.....	600
XV.....	15	DCC.....	700
XVI.....	16	DCCC.....	800
XVII.....	17	CM.....	900
XVIII.....	18	M.....	1000
XIX.....	19	MM.....	2000

Note — A dash line over a numeral multiplies the value by 1,000: thus, \overline{X} = 10,000; \overline{L} = 50,000; \overline{C} = 100,000; \overline{D} = 500,000; \overline{M} = 1,000,000; \overline{CLIX} = 159,000; \overline{DLIX} = 559,000.

Other general rules in Roman numerals are as follows: (1) repeating a letter repeats its value — XX = 20; CCC = 300; (2) a letter placed after one of greater value adds thereto — VI = 6; DC = 600; (3) a letter placed before one of greater value subtracts therefrom — IV = 4.

Arabic numerals are those now commonly in use — 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, etc.

WEIGHTS AND MEASURES

APOTHECARIES' WEIGHT

20 grains.....	1 scruple	8 drams.....	1 ounce
3 scruples.....	1 dram	12 ounces.....	1 pound

Ounce and pound are the same as in Troy Weight.

AVOIRDUPOIS WEIGHT

27 11/32 grains..	1 dram	25 pounds....	1 quarter
16 drams.....	1 ounce	4 quarters.....	1 cwt.
16 ounces.....	1 pound	2,000 lbs....	1 short ton
2,240 pounds.....			1 long ton

TROY WEIGHT

24 grains.....			1 pwt.
20 pwt.....	1 ounce	12 ounces.....	1 pound

Used for weighing gold, silver and jewels.

CLOTH MEASURE

2 1/4 inches.....	1 nail	4 nails.....	1 quarter
4 quarters.....			1 yard

CUBIC MEASURE

1,728 cubic inches.....			1 cubic foot
27 cubic feet.....			1 cubic yard
128 cubic feet.....			1 cord (wood)
40 cubic feet.....			1 ton (shipping)
2,150.42 cubic inches.....			1 standard bushel
231 cubic inches.....			1 U. S. standard gallon
1 cubic foot.....			about 4/5 of a bushel

DRY MEASURE

2 pints.....	1 quart	4 pecks.....	1 bushel
8 quarts.....	1 peck	36 bushels...	1 chaldron

LIQUID MEASURE

4 gills.....	1 pint	4 quarts.....	1 gallon
2 pints.....	1 quart	31 1/2 gallons....	1 barrel
2 barrels.....			1 hogshead

WEIGHTS AND MEASURES

Continued

LONG MEASURE

12 inches.....	1 foot	40 rods.....	1 furlong
3 feet.....	1 yard	8 furlongs...	1 sta. mile
5½ yards.....	1 rod	3 miles.....	1 league

MARINERS' MEASURE

6 feet.....	1 fathom	120 fathoms..	1 cable length
7½ cable lengths.....			1 mile
5,280 feet.....			1 statute mile
6,080.2 feet.....			1 nautical mile

PAPER MEASURE

24 sheets....	1 quire	20 quires, 1 ream	(480 sheets)
2 reams.....	1 bundle	5 bundles.....	1 bale

SQUARE MEASURE

144 sq. inches..	1 sq. ft.	40 sq. rods.....	1 rood
9 sq. ft.....	1 sq. yard	4 rods.....	1 acre
30¼ sq. yards.	1 sq. rod	640 acres.....	1 sq. mile

SURVEYORS' MEASURE

7.92 inches.....			1 link
25 links.....			1 rod
4 rods.....			1 chain
10 sq. chains or 160 sq. rods.....			1 acre
640 acres.....			1 sq. mile
36 sq. miles (6 miles sq.).....			1 township

TIME MEASURE

60 seconds....	1 minute	60 minutes.....	1 hour
24 hours.....	1 day	7 days.....	1 week
28, 29, 30 or 31 days.....			1 calendar month
30 days.....	1 month		in computing interest
365 days.....	1 year	366 days....	1 leap year

WEIGHTS AND MEASURES

Continued

MISCELLANEOUS

3 inches.....	1 palm	4 inches.....	1 hand
6 inches.....	1 span	18 inches.....	1 cubit
21.8 inches.....			1 Bible cubit
2½ feet.....			1 military pace

METRIC EQUIVALENTS — Linear Measure

1 centimeter.....	0.3937 inch
1 inch.....	2.54 centimeters
1 decimeter... 3.937 inches.....	0.328 foot
1 foot.....	3.048 decimeters
1 meter..... 39.37 inches.....	1.0936 yards
1 yard.....	0.9144 meter
1 dekameter.....	1.9884 rods
1 rod.....	0.5029 dekameter
1 kilometer.....	0.62137 mile
1 mile.....	1.6093 kilometers

Square Measure

1 square centimeter.....	0.1550 square inch
1 square inch.....	6.452 square centimeters
1 square decimeter.....	0.1076 square foot
1 square foot.....	9.2903 square decimeters
1 square meter.....	1.196 square yards
1 square yard.....	0.8361 square meter
1 acre.....	160 square rods
1 square rod.....	0.00625 acre
1 hectare.....	2.47 acres
1 acre.....	0.4047 hectare
1 square kilometer.....	0.386 square mile
1 square mile.....	2.59 square kilometers

Weights

1 gram.....	0.03527 ounce
1 ounce.....	28.35 grams
1 kilogram.....	2.2046 pounds
1 pound.....	0.4536 kilogram
1 metric ton.....	0.98421 English ton
1 English ton.....	1.016 metric ton

WEIGHTS AND MEASURES

Continued

Measure of Volume

1 cubic centimeter.....	0.061 cubic inch
1 cubic inch.....	16.39 cubic centimeters
1 cubic decimeter.....	0.0353 cubic foot
1 cubic foot.....	28.317 cubic decimeters
1 cubic meter.....	1.308 cubic yards
1 cubic yard.....	0.7646 cubic meter
1 stere.....	0.2759 cord
1 cord.....	3.624 steres
1 liter.....	0.908 quart dry.....
1 quart dry.....	1.0567 quarts liquid
1 quart liquid.....	1.101 liters
1 dekaliter.....	2.6417 gallons.....
1 gallon.....	1.135 pecks
1 peck.....	0.3785 dekaliter
1 hektoliter.....	0.881 dekaliter
1 bushel.....	2.8375 bushels
1 bushel.....	0.3524 hektoliter

APPROXIMATE METRIC EQUIVALENTS

1 decimeter.....	4 inches
1 liter.....	1.06 quarts liquid, 0.9 quart dry
1 meter.....	1.1 yards
1 kilometer.....	$\frac{5}{8}$ of a mile
1 hektoliter.....	$2\frac{5}{8}$ bushels
1 hectare.....	$2\frac{1}{2}$ acres
1 kilogram.....	$2\frac{1}{5}$ pounds
1 stere, or cubic meter.....	$\frac{1}{4}$ of a cord
1 metric ton.....	2,200 pounds

TEMPERATURES

	Fahrenheit	
Milk.....	Freezes 30° above	Zero
Water.....	Freezes 32° above	Zero
Olive Oil.....	Freezes 36° above	Zero
Wines.....	Freeze 20° above	Zero
Vinegar.....	Freezes 28° above	Zero
Alcohol.....	Boils at 173° above	Zero
Water.....	Boils at 212° above	Zero
Petroleum..... (average)	Boils at 306° above	Zero
Blood Heat.....	98.4° above	Zero
Eggs Hatch.....	104° above	Zero

COMMON FRACTIONS REDUCED TO DECIMALS

8ths	16ths	32ds	64ths		8ths	16ths	32ds	64ths	
			1	.015625				33	.515625
		1	2	.03125			17	34	.53125
			3	.046875				35	.546875
	1	2	4	.0625		9	18	36	.5625
			5	.078125				37	.578125
		3	6	.09375			19	38	.59375
			7	.109375				39	.609375
1	2	4	8	.125	5	10	20	40	.625
			9	.140625				41	.640625
		5	10	.15625			21	42	.65625
			11	.171875				43	.671875
	3	6	12	.1875		11	22	44	.6875
			13	.203125				45	.703125
		7	14	.21875			23	46	.71875
			15	.234375				47	.734375
2	4	8	16	.25	6	12	24	48	.75
			17	.265625				49	.765625
		9	18	.28125			25	50	.78125
			19	.296875				51	.796875
	5	10	20	.3125		13	26	52	.8125
			21	.328125				53	.828125
		11	22	.34375			27	54	.84375
			23	.359375				55	.859375
3	6	12	24	.375	7	14	28	56	.875
			25	.390625				57	.890625
		13	26	.40625			29	58	.90625
			27	.421875				59	.921875
	7	14	28	.4375		15	30	60	.9375
			29	.453125				61	.953125
		15	30	.46875			31	62	.96875
			31	.484375				63	.984375
4	8	16	32	.5	8	16	32	64	1.

KNOTS AND MILES

The **U. S. Statute Mile** is 5,280 feet in length. On the Continent most of the old miles, which varied in length from about 3,300 feet to over 36,000 feet, have been replaced, officially at least, by the kilometer, which equals 0.6214 statute mile or 3,280.8 feet.

The **Nautical, Geographic, or Sea Mile** at any place is considered, for purposes of navigation, to be equal to the length of one minute of longitude at that place.

The **U. S. Nautical Mile** is 6,080.20 feet in length and equal to one-sixtieth of a degree of a great circle of a sphere whose surface is equal in area to the area of the surface of the earth (Clarke's spheroid of 1866).

The **Knot** is a measure of speed; a speed of one knot being a speed of one nautical mile an hour.

A **Nautical Mile** — 1.1516 statute miles; a **Fathom** — 6 feet; a **Cable** — 100 fathoms or 600 feet or approximately 0.1 nautical mile.

To convert statute miles into nautical miles, multiply statute miles by 0.8684; to convert nautical miles into statute miles, multiply nautical miles by 1.1516, or roughly 1-1/7.

United States Air Forces and the Navy use the knot as the standard aeronautical unit of speed and the nautical mile as the corresponding unit of distance.

MISCELLANEOUS TECHNICAL DATA

- To find diameter of a circle multiply circumference by .31831.
- To find circumference of a circle multiply diameter by 3.1416.
- To find area of a circle multiply square of diameter by .7854.
- To find surface of a ball multiply square of diameter by 3.1416.
- To find side of an equal square multiply diameter by .8862.
- To find cubic inches in a ball multiply cube of diameter by .5236.
- Doubling the diameter of a pipe increases its capacity four times.
- Double riveting is from 16 to 20 per cent stronger than single.
- One cubic foot of anthracite coal weighs about 53 pounds.
- One cubic foot of bituminous coal weighs from 47 to 50 pounds.
- One ton of coal is equivalent to two cords of wood for steam purposes.
- A gallon of water (U. S. Standard) weighs 8-1/3 lbs. and contains 231 cubic inches.
- There are nine square feet of heating surface to each square foot of grate surface.
- A cubic foot of water contains 7 1/2 gallons, 1728 cubic inches, and weighs 62 1/2 lbs.
- Each nominal horse power of a boiler requires 30 to 35 lbs. of water per hour.
- To sharpen dull files lay them in dilute sulphuric acid until they are eaten deep enough.
- A horse power is equivalent to raising 33,000 lbs. one foot per minute, or 550 lbs. one foot per second.
- To find the pressure in pounds per square inch of column of water, multiply the height of the column in feet by .434.
- Steam rising from water at its boiling point (212 degrees) has a pressure equal to the atmosphere (14.7 lbs. to the square inch).

HOW TO FIGURE PROFIT

Experience indicates that many business men have the wrong idea about figuring profit. Remember that 20% added to cost does not yield 20% profit. Profit is properly figured on selling price. To make 20% profit you must add 25% to cost.

To find correct selling price to gain a certain net profit: Add the percentage of cost of doing business and the desired per cent of profit. Subtract this from 100. Divide the cost by this remainder.

5	%	added to cost is	4 ³ / ₄	%	Profit
8 ¹ / ₂	%	" " " "	7	%	
10	%	" " " "	9	%	
12 ¹ / ₂	%	" " " "	11 ¹ / ₈	%	
15	%	" " " "	13	%	
16	%	" " " "	14 ¹ / ₄	%	
17 ¹ / ₂	%	" " " "	15	%	
20	%	" " " "	16 ² / ₃	%	
25	%	" " " "	20	%	
30	%	" " " "	23	%	
33 ¹ / ₃	%	" " " "	25	%	
35	%	" " " "	26	%	
37 ¹ / ₂	%	" " " "	27 ¹ / ₄	%	
40	%	" " " "	28 ¹ / ₂	%	
45	%	" " " "	31	%	
50	%	" " " "	33 ¹ / ₃	%	
55	%	" " " "	35 ¹ / ₂	%	
60	%	" " " "	37 ¹ / ₂	%	
65	%	" " " "	39 ¹ / ₂	%	
66 ² / ₃	%	" " " "	40	%	
70	%	" " " "	41	%	
75	%	" " " "	42 ² / ₃	%	
80	%	" " " "	44 ¹ / ₂	%	
85	%	" " " "	46	%	
90	%	" " " "	47 ¹ / ₂	%	
100	%	" " " "	50	%	

AMOUNT OF ONE DOLLAR AT COMPOUND INTEREST

Years	3%	4%	4½%	5%	6%
1	1.03	1.04	1.04	1.05	1.06
2	1.06	1.08	1.09	1.10	1.12
3	1.09	1.12	1.14	1.15	1.19
4	1.12	1.17	1.19	1.21	1.26
5	1.15	1.21	1.24	1.27	1.33
6	1.19	1.26	1.30	1.34	1.41
7	1.23	1.31	1.36	1.40	1.50
8	1.26	1.36	1.42	1.47	1.59
9	1.30	1.42	1.48	1.55	1.68
10	1.34	1.48	1.55	1.62	1.79
11	1.38	1.53	1.62	1.71	1.89
12	1.42	1.60	1.69	1.79	2.01
13	1.46	1.66	1.77	1.88	2.13
14	1.51	1.73	1.85	1.98	2.26
15	1.55	1.80	1.93	2.07	2.39
16	1.60	1.87	2.02	2.18	2.54
17	1.65	1.94	2.11	2.29	2.69
18	1.70	2.02	2.20	2.40	2.85
19	1.75	2.10	2.30	2.52	3.02
20	1.80	2.19	2.41	2.65	3.20
21	1.86	2.27	2.52	2.78	3.40
22	1.91	2.37	2.63	2.92	3.60
23	1.97	2.46	2.75	3.07	3.82
24	2.03	2.56	2.87	3.22	4.04
25	2.09	2.66	3.00	3.38	4.29
26	2.15	2.77	3.14	3.55	4.54
27	2.22	2.88	3.28	3.73	4.82
28	2.28	2.99	3.43	3.92	5.11
29	2.35	3.11	3.58	4.11	5.41
30	2.42	3.24	3.74	4.32	5.74
31	2.50	3.37	3.91	4.53	6.08
32	2.57	3.50	4.09	4.76	6.45
33	2.65	3.64	4.27	5.00	6.84
34	2.73	3.79	4.46	5.25	7.25
35	2.81	3.94	4.66	5.51	7.68
100	19.21	50.50	81.58	131.50	339.30

INTEREST CALCULATIONS

RULE: Multiply the principal by as many one hundredths as there are days, and then divide as follows:

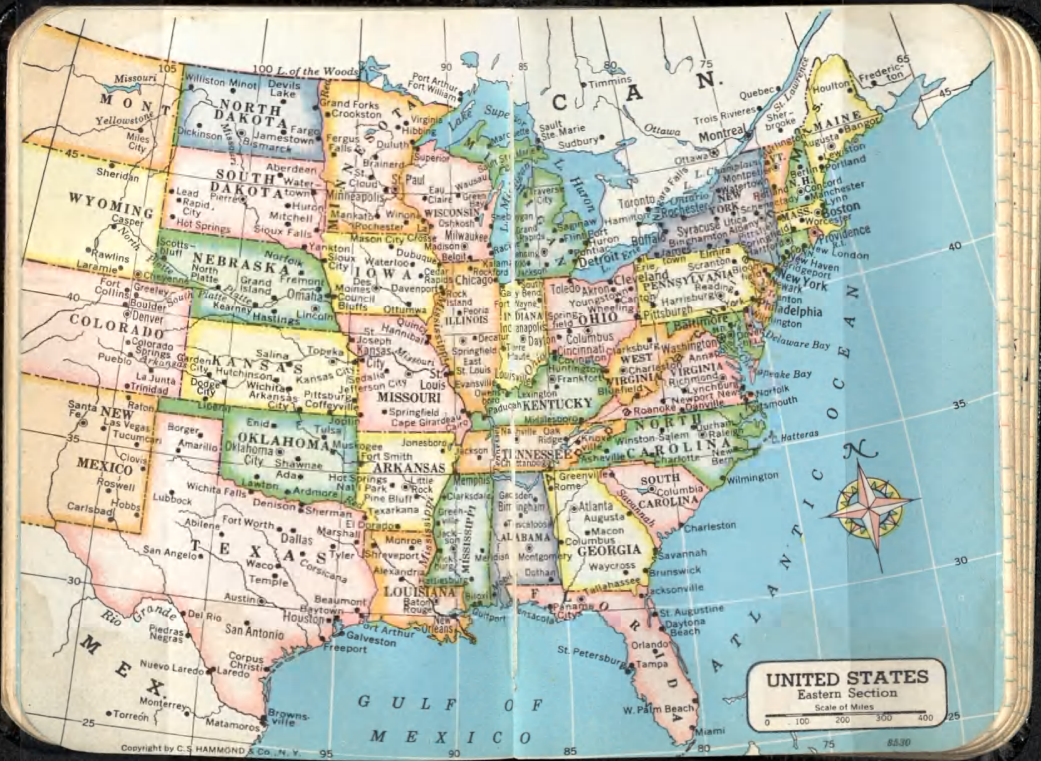
Per cent	4	5	6	7	8	9	10	12
Divide by	90	72	60	52	45	40	36	30

EXAMPLES: Interest on \$100, for 90 days at 5 per cent: $100 \times .90 = 90.00$ divided by 72 = 1.25 (1 dollar and 25 cents); on \$1, for 30 days at 6 per cent: $1 \times .30 = .30$ divided by 60 = .005 (5 mills).

TABLE: Showing the number of days from any date in one month to the same date in any other month.

From	To	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
January		365	31	59	90	120	151	181	212	243	273	304	334
February		334	365	28	59	89	120	150	181	212	242	273	303
March		306	337	365	31	61	92	122	153	184	214	245	275
April		275	306	334	365	30	61	91	122	153	183	214	244
May		245	276	304	335	365	31	61	92	123	153	184	214
June		214	245	273	304	334	365	30	61	92	122	153	183
July		184	215	243	274	304	335	365	31	62	92	123	153
August		153	184	212	243	273	304	334	365	31	61	92	122
September		122	153	181	212	242	273	303	334	365	30	61	91
October		92	123	151	182	212	243	273	304	335	365	31	61
November		61	92	120	151	181	212	242	273	304	334	365	30
December		31	62	90	121	151	182	212	243	274	304	335	365

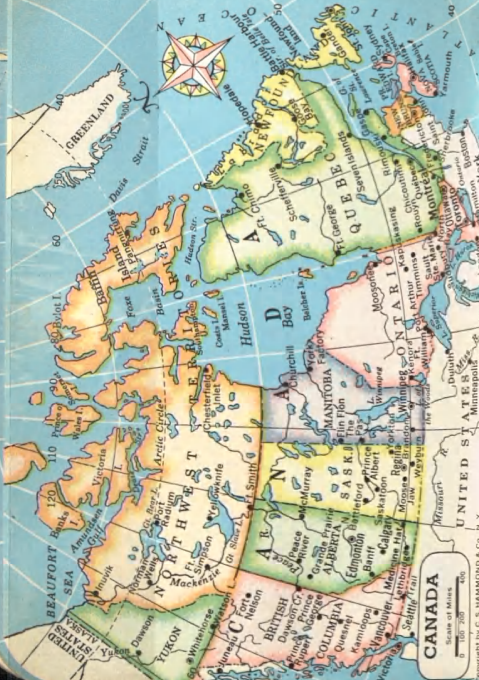
EXAMPLE: How many days from May 5th to October 5th? Look for May at left hand and October at the top; in the angle is 153. In leap year add one day if February is included.



UNITED STATES
Eastern Section

Scale of Miles
0 100 200 300 400





CANADA

Scale of Miles
 0 100 200 400

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 120

JANUARY, 1964

Wednesday 1

Thursday 2

Friday 3

Saturday 4

JANUARY, 1964

Sunday 5

Monday 6

Tuesday 7

Wednesday 8

JANUARY, 1964

Thursday 9

Monday 12

Friday 10

Monday 13

Saturday 11

Tuesday 14

Memoranda

Wednesday 15

JANUARY, 1964

Sunday 12

Monday 13

Tuesday 14

Wednesday 15

JANUARY, 1964

Thursday 16

Friday 17

Saturday 18

Memoranda

JANUARY, 1964

Sunday 19

Thursday 18

Monday 20

Friday 17

Tuesday 21

Saturday 16

Wednesday 22

Sunday 15

JANUARY, 1964

Thursday 23

Friday 24

Saturday 25

Memoranda

JANUARY, 1964

Sunday 26

Monday 27

Tuesday 28

Wednesday 29

JANUARY, 1964

Thursday 30

Friday 31

Saturday 1, FEBRUARY

Memoranda

FEBRUARY, 1964

Sunday 2

February 22

Monday 3

February 21

Tuesday 4

FEBRUARY 1

Wednesday 5

February 20

FEBRUARY, 1964

Thursday 6

Friday 7

Saturday 8

Memoranda

FEBRUARY, 1964

Sunday 9

Monday 10

Tuesday 11

Wednesday 12

FEBRUARY, 1964

Thursday 13

Friday 14

Saturday 15

Memoranda

FEBRUARY, 1964

Sunday 16

February 16

Monday 17

February 17

Tuesday 18

February 18

Wednesday 19

February 19

FEBRUARY, 1964

Thursday 20

Friday 21

WORKED AT MUSEUM
WITH NELA. MOVED ARCH.
COLLECTION

Saturday 22

Memoranda

FEBRUARY, 1964

Sunday 23

Monday 24

BOUGHT 10 ~~10~~ 20 TRAV. CHECKS
MONT. N. BK. + TR. CO.
DROVE TO NEW HAVEN - TOOK KAREL
KOOPMAN. SAW DAVE CHALLINOR
DR. STUIVER. LUNCH WITH MACCLINTOCK

Tuesday 25

KEPT SCORE 2ND GAME
COMMONWEALTH CLUB
RUS PETERSON + I VISITED
GEOFF TATE + MIRIAM IN
BROOKLYN. CLAY-LISTON FIGHT

Wednesday 26

FEBRUARY, 1964

Thursday 27

Friday 28 MONTCLAIR → MUSEUM

SIGNED WILL - MR. BATE

BOUGHT PLASTIC PAILS (18)

DROVE JEEP TO NEW YORK

DROVE TO KATONAH - DINNER

WITH GRIERSONS. VISIT DR. PORTER

Saturday 29

MONTCLAIR

DINNER WITH OLIPHANTS

ALSO HOOTONS + BOSTOCKS

Memoranda

MONTCLAIR

BOYD, PADD, KEER, + BOOTH
DAVID BATE

MARCH, 1964

Sunday 1 MONTCLAIR → MUSEUM

Monday 2 MONTCLAIR → MUSEUM

Tuesday 3 DRIZZLE, CLEARING IN P.M.
MONTCLAIR TO N.Y.C.

K. UP ALL NIGHT. I WROTE EXPL. CLUB
LETTERS. TAXI AT 9: BOUGHT FILM.
PIER 59, S/S PIONEER STAR. D. + BILL,
H. MIMI, H + H. MR + MRS G. + H, RUS PET,
NELA. DID NOT SAIL. FRUIT FROM LEN.

Wednesday 4 SMOG, CLEARING. RAIN
TAPED CARGO, N.Y.C. PIER 59 NIGHT
WASHED DOWN ROOM, K ARRANGED
BAGGAGE + CLOTHES. WILL GRIERSON
CALLED ON US. WENT TO MUSEUM
P.M. EXP. CLUB MATL. BULMER COLL.

MARCH, 1964

Thursday 5 N.Y.C. → NEWPORT NEWS

WENT TO MUSEUM AT 9; WORKED
ON BULMER COLL. UNTIL 1: P.M.
SAKS - 34 ST. TO BUY DECK CHAIRS
SAILED AT 10:30 P.M. VERY CLEAR

Friday 6 EN ROUTE NPT. N., VA.

UP AT 6:15 AM TO SEE SUN RISE
SAW GLAUCOUS GULL, MEADOW LARK
COWBIRDS ON BOARD. ARR. NP. N.S.
LATE P.M. STAN + I WALKED
UP TOWN TO SHOP.

Saturday 7 NEWPORT NEWS → SAVANNAH
SAVANNAH → GA.

SAILED 6:30 A.M.

Memoranda

CAPT. GARLAND
FIRST MATE - MR. SCOTT
STEWARD - MR. WILLIAM SHAW

MARCH, 1964

Sunday 8

Monday 9

Tuesday 10

LAT. 30-30N. LONG.
79-13W. COURSE 139°
DIST. 119 STEAMING TIME
8 HR. 48 MIN. AV. SP. 13.51
WIND SLY-8 SEA-ROUGH
TO COLON 1420 FR. SAV. 119

Wednesday 11

LAT. 25-16N, LONG
75-25W. COURSE - VARIOUS
DIST. 372 ST. T. 24 HR AV. SP.
15.50 WD. SSE-2 SEA SLIGHT
SLY. TO COLON 1048 FR. S. 491

MARCH, 1964

Thursday 12

LT. 19-31 N. L. 74-23 W.
COURSE-VAR. DIST. 366 S.T.
24 HR. AV. SP. 15.25 KTS. WIND
ENE 4 SEA MOD. E'LY TO COLON
689 FROM SAVANNAH 857

Friday 13

LT. 14-00 N. L. 77-29 W
COURSE-VAR. DIST. 377
S.T. 24 HRS. WIND ENE-5
SEA-MOD. E'LY TO COLON
312 FR. SAV. 1234

Saturday 14

ARRIVAL COLON
COURSE-VAR. DIST. 312
S.T. 19 HR. 6 MIN. AV. SP.
16.33 WIND N.E. 5 SEA ROUGH
N.E. TOTAL DIST. FR. SAV. TO
COLON 1575

Memoranda

PHOTOS OF IGUANAS

MARCH, 1964

Sunday 15

CANAL TRANSIT

Monday 16

LT. 06-00 N. L. 84-10 W

COURSE - VAR. DIST. 362 ST. T.

22 HR. 36 MIN. AV. SP. 16.04

WIND S-4 SEA ROUGH S'LY.

TO BRISBANE 7409 FROM

BALBOA 362. P. CANAL 46 MI.

Tuesday 17

LT. 04-07 N. L. 89-45 W

COURSE 252 DIST. 353

ST. T. 24 HR. 30 MIN. AV. SP.

14.41 SEA MOD. S'LY

WIND S-3 TO BRISBANE

7056 FR. COLON 715

Wednesday 18

LT. 2-04 N. L. 95-48 W

COURSE 252 DIST. 384 ST. T.

24 HR. 30 MIN. AV. SP. 15.71

WIND S-3 SEA MOD S'LY.

TO BRISBANE 6681 BALBOA 1104

MARCH, 1964

Thursday 19

LAT. 00-08 N

TRUE

LONG. 102-07 W.

COURSE 253 DIST. BY OBS. 399

ST. T. 24 HR. 30 MIN. AV. SP. 16.28

WIND SSW-2 SEA SLIGHT S'LY

BRISBANE 6282 BALBOA 1498

TOTAL ST. T. 04-00-06

Friday 20

LAT. 01-25 S

LONG. 108-22 W

COURSE 256 DIST. 389

ST. T. 24 HR. 30 MIN. AV. SP. 15.87

W. SSE 3 SEA MOD. SSE W

TO BRISBANE 5893 BALBOA

1878 T. ST. T. 05-00-36

Saturday 21

LAT. 03-18 S

LONG. 115-08 W.

COURSE 255 DIST. 423

ST. T. 24 HR. 30 MIN. AV. SP. 17.26

WIND SE-4 SEA MOD. S.E.

TO BRISBANE 5470 FR. BALBOA

2310 T. ST. 06-01-06

Memoranda

MARCH, 1964

Sunday 22 LAT. 05-18 S

LONG. 121-46 W

COURSE 253 DIST. 417 ST. T.

24 HR. 30 MIN. AV. SP. 17.01

WIND SSE-3 SEA MOD. SSE

TO BRISBANE 5053 FR. BALBOA

2727 T. ST. T. 07-01-36

Monday 23 LAT. 07-22 S

LONG. 128-00 W

COURSE 252 DIST. 394

ST. T. 24 HR. 30 MIN. AV. SP. 16.08

WIND ENE 4 SEA MOD. ENE

TO BRISBANE 4659 FR. BALBOA

3121 T. ST. T. 08-02-06

Tuesday 24 LAT. 11 05 S

LONG. 140 10 W

COURSE 252 DIST. 370 MI.

ST. TIME 24 HRS. AV. SP.

15.41 WIND E 4 SEA MOD. ELY

BRISBANE 3298 BALBOA 3882

TOTAL TIME 10-02-36

Wednesday 25 LAT. 09 08 S

LONG. 134 17 W

COURSE 274 DIST. 391 MI.

ST. TIME 24 1/2 HRS. AV. SP.

15.95 WIND E 4 SEA MOD.

E, LY. BRISBANE 4268 BALBOA

3512

MARCH, 1964

Thursday 26

LAT. 13.00 S

Lg. 146.26 W

COURSE 253° DIST. 387 MI.

ST. T. 24 1/2 HRS. AV. SP. 15.79

WIND E 4 SEA MOD. E, LY.

BRISBANE 3511 BALBOA 4269

TOTAL TIME 11-03-06

Friday 27

LAT. 14.58 S

Lg. 152.43 W

COURSE 252 DIST. 387

ST. T. 24 1/2 HRS. AV. SP. 15.79

WIND E 4 SEA MOD. E, LY

BRISBANE 3124 BALBOA 4656

TOTAL TIME 12-03-36

Saturday 28

LAT. 16.44 S

Lg. 158.51 W

COURSE 253 DIST. 371

ST. T. 24 1/2 HRS. AV. SP.

15.14 WIND E 3 SEA MOD.

E, LY BRISBANE 2753 BALBOA

5027 T.T. 13-04-06

Memoranda

MARCH, 1964

Sunday 29

LAT. 18 20 S
Lg. 165 21 W
COURSE 255 DIST. 386
ST. T. 24 1/2 HRS. Av. Sp. 15.75
WIND E'LY 3 SEA MOD. E'LY
BRISBANE 2367 BALBOA 5413
TT 14-04-36

Monday 30

LAT. 20 20 S
Lg. 171 58 W
COURSE, VARIOUS, DIST. 396
ST. T. 24 1/2 HRS. Av. Sp. 16.16
BRISBANE 1965 BALBOA 5809
T. T. 15-05-06

Tuesday 31

INT. DATE LINE
CROSSING

Wednesday 1, APRIL

LAT. 22 04 S
Lg. 178 41 W
COURSE, VARIOUS, DIST. 392
ST. T. 24 1/2 HRS. Av. Sp. 16.00
WIND ENE 2 SEA SLIGHT N.E.
BRISBANE 1573 BALBOA 6201
T. T. 16-05-36

APRIL, 1964

Thursday 2 LAT. 23-04 S
Lg. 174-23 E
COURSE 261 DIST. 391
ST. T. 24 1/2 HRS. AV. Sp. 15.95
WIND SSE 4 SEA MOD. SSE
BRISBANE 1182 BALBOA
6592 TT 17-06-06

Friday 3 LAT. 23 47 S
Lg. 167 47 E
COURSE, VARIOUS DIST. 370
ST. T. 24 1/2 HRS. AV. Sp. 15.10
WIND E 4 SEA MOD. E'LY
BRISBANE 817 BALBOA 6962
TT 18-06-36

Saturday 4 LAT. 26 40 S
Lg. 162-52 E
COURSE, VAR. DIST. 381
ST. T. 24 1/2 HRS. AV. Sp. 15.51
WIND E 10 SEA VERY ROUGH
E'LY BALBOA 7343
TT 19-07-06

Memoranda

CYCLONE - HENRIETTA

APRIL, 1964

Sunday 5 LAT. 25 36 S

LG. 158 08 E

COURSE, VAR. DIST. 355

ST. T. 24 1/2 HRS. AV. SP. 14.49

WIND SSW 8 SEA VERY ROUGH

SSW BALBOA 7698

T. T. 20-07-36 GLASS -

Monday 6 SAW MORETON LGT., HOUSE MTS.

ARRIVED BRISBANE

AT NOON. SAW SUNRISE + SURE
ON BRIB ISLAND. 3 SP. TERNS,

JAEGER, IBIS, SHEAR. PHOTOS.

FILM THRU CUSTOMS OK. TO

LENNONS. KAY + STAN BREEDEN, K. J.

MET THE SHIP.

Tuesday 7

BRISBANE. STAN + I

DID ERRANDS ALL DAY. WE

ALL WENT TO QUEENSLAND

MUSEUM TO VISIT. JACK WOODS

NOW DIRECTOR. TAA TICKETS

TO NEW GUINEA. ↑

Wednesday 8

BRISBANE. WITH K.

JARROTT + JEAN FOR DINNER.

VISITED CARRIER MAIL OFFICE.

(SEE THUR. ACCOUNT)

THURS. - MUSEUM IN P.M.
DINNER WITH VERNONS
MAY WITH APRIL, 1964 MRS. WHITE

Thursday 9 BRISBANE - FAIR
LONG PINE KOALA
SANCTUARY - MR. REID.
MAY, STAN + I BY RIVER
BOAT. VISITED MR. BROOKS
ON RETURN TO BRISBANE.
ERRANDS IN A.M.

Friday 10 BRISBANE
WITH CECILY + JIM FEARNLEY
FOR ALL DAY TOUR OF PARKS
+ RANGES NEAR BRISBANE
MT. GLORIOUS, BR-TAILED
PHASCOGALE.

Saturday 11 BRISBANE
TO OASIS FOR AFTER NOON
WITH HUGH + JEAN OSBORN +
3 BOYS (JEAN'S BIRTHDAY)

TO T.A.A. FOR FLIGHT TO N.G.

Memoranda

APRIL, 1964

Sunday 12

BRISBANE TO P.M.
P.M. AT DR. T. SZENT-IVANY
STAYING AT BAMPTON HOME-TEL
MR. + MRS. LONG. STAN FLEW ON
TO P.M. HOOGLAND MET STAN.
H. ARR. APR. 5?

Monday 13

P.M.
SAW SIR DONALD, DR. GUNTHER
DINNER WITH DAVID FENSBURY
J.K. MCCARTHY, KEITH CAMBERS,
ALAN CHILDS, BILL CONROY, TERRY
ROTHWELL

Tuesday 14

P.M. TO LAE
DECIDED ON PINDIU, NOT
FINSCHAFEN

Wednesday 15

LAE. SAW D.C.
MADE OUT FOOD LIST. WEIGHED
CARGO FOR AZTEC. POLICE
PERMITS.

APRIL, 1964

Thursday 16

LAE

10:30 A.M. CROWLEY FLEN D.O.
DES ASHTON, RU, + MYSELF INTO
PINDIV. MET P.O. RON WILLARD.
BACK IN LAE BEFORE NOON.

Friday 17

LAE

Saturday 18

LAE

Memoranda

MRS. HUXLEY - WIFE
OF OWNER OF LOCAL PAPER.

APRIL, 1964

Sunday 19

LAE

WROTE LETTER #4 TO LEN

Monday 20

LAE

KEN TO PINDIU ON FIRST
FLIGHT. STAN + TOBRAM
ON 2ND FLIGHT

Tuesday 21

LAE TO PINDIU

Wednesday 22

PINDIU

APRIL, 1964

Thursday 23 PINDIU

Friday 24 PINDIU

Saturday 25 PINDIU

Memoranda

RON + REN WILLARD
STEPHEN GIBSON C.P.O
GRAHAM WILSON - TEACHER
IAN ROWLES AGR. OFFICER

APRIL, 1964

Sunday 26

PINDIU

Monday 27

PINDIU

Tuesday 28

PINDIU

1 DOBSONIA - SHOT BY KEN
1 MINIOPTERUS - SHOT V.D.
2 SYCONYCTERIS - MIST NET
7 RATTUS EXULANS
RAIN + CLOUD MOST OF DAY

Wednesday 29

PINDIU

APRIL, 1964

Thursday 30

PINDIU

Friday 1, MAY

PINDIU

Saturday 2

PINDIU

Memoranda

MAY, 1964

Sunday 3

PINDIUTU MASBA CR.

Monday 4

MASBA

Tuesday 5

MASBA

Wednesday 6

MASBA

MAY, 1964

Thursday 7

MASBA

Friday 8

MASBA

Saturday 9

MASBA

Memoranda

MAY, 1964

Sunday 10

MASBA

Monday 11

MASBA

Tuesday 12

MASBA

Wednesday 13

MASBA

MAY, 1964

Thursday 14

MASBA

Friday 15

MASBA

Saturday 16

MASBA

Memoranda

MASBA

MAY, 1964

Sunday 17

MASBA

Monday 18

MASBA

Tuesday 19

MASBA

Wednesday 20

MASBA

MAY, 1964

Thursday 21

MASBA

Friday 22

MASBA

Saturday 23

MASBA → PINDIU

RON WILLARD'S BIRTHDAY
EXPEDITION INVITED TO
DINNER.

Memoranda

MAY, 1964

Sunday 24

PINDIU

BEAUTIFUL A.M. CLOUDS IN
P.M. RAIN AT 9: P.M.
WROTE LETTERS. DRIED
TENTS. FOOD LISTS FOR KENTO
GET IN LAE.

Monday 25

PINDIU

Tuesday 26

PINDIU

Wednesday 27

PINDIU

MAY, 1964

Thursday 28

PINDIU.

Friday 29

PINDIU

Saturday 30

PINDIU TO TUMNANG

Memoranda

MAY, 1964

Sunday 31

TUMNANG

NO CARRY ON SUNDAY!

Monday 1, JUNE

T. TO SELIMBENG

Tuesday 2

SELIMBENG TO
ZENGAREN
BROKE BULUM RIVER

Wednesday 3

ZENGAREN TO
GANG CREEK CAMP
4400'

JUNE, 1964

Thursday 4 Mt. R. - GANG CR.

Friday 5 Mt. R. - GANG CREEK

Saturday 6 Mt. R. - GANG CR.
3 MESSENGERS LEFT AT
NOON FOR PINDIV

Memoranda

JUNE, 1964

Sunday 7 MT. R. GANG CR.

Monday 8 MT. R. GANG CR.
KORONG BROUGHT IN 2
TREE CLIMBERS + A WALLABY

Tuesday 9 MT. R. GANG CR.

Wednesday 10 MT. R. GANG CR.

JUNE, 1964

Thursday 11

G.

Friday 12

G.

Saturday 13

G.

Memoranda

JUNE, 1964

Sunday 14

G

Monday 15

G

Tuesday 16

G

Wednesday 17

G

JUNE, 1964

Thursday 18

G

KEN MACGOWAN TO
SUMMIT AREA 7390'

Friday 19

G

SING-SING

Saturday 20

G

RECORDING MIDNIGHT - 1:15 AM

Memoranda

JUNE, 1964

Sunday 21 G

DICK ZWEIFEL ARRIVED

Monday 22 G

Tuesday 23 G

Wednesday 24 G

JUNE, 1964

Thursday 25 G

Friday 26 G

Saturday 27 G

Memoranda

JUNE, 1964

Sunday 28 GANG CREEK

Monday 29 GANG CR.

RU + LYN CRAVEN MADE
TOP CAMP ON MT. R. 6000'

Tuesday 30 GANG CR.

DICK Z. LEFT FOR LAE

BOUGHT ZAGLOSSUS

Wednesday 1, JULY GANG CR.

RU CAME DOWN TO SEE Z.

JULY, 1964

Thursday 2 **GANG**

VAN DEUSEN VISITED TOP
CAMP + SUMMIT AREA. TRUE
PEAK S.W. OF KEN'S TREE PEAK
7450' TOBRAM, ADZING, V.D.
MT. RAWLINSON

Friday 3 **GANG**

Saturday 4 **GANG**

Memoranda

JULY, 1964

Sunday 5 GANG CR.

Monday 6

G. TO ZENGAREN
A TREE CLIMBER BROUGHT IN
AT 5 P.M.

OVER N. RIDGE THRU GARDENS.

Tuesday 7

ZENGAREN
RAIN. SLEPT - WOG.

MURUK FEAST AT COUNSELOR'S
"COMPOUND".

Wednesday 8

Z. TO SELIM-
BENG TO OGERAMNANG
KEN MACGOWAN STILL AT Z.

JULY, 1964

Thursday 9 OGERAMNANG
LYN CRAVEN DEP. FOR TOBO
STAYING AT PASTOR'S HOUSE.

BOUGHT 2 ZAGLOSSUS

Friday 10 OGERAMNANG TO TOBO
TO JAPANG BROKE THE
KUA. COLLECTED 3 HUMBUS
FROGS. RAIN A.M. CLEAR A.M.
KIM STILL AT TOBO. KIM
CAME WITH CARRIERS AT 12:45 A.M.

Saturday 11 JAPANG TO PINDIU
DEP. 8: A.M.
ARR. PINDIU 1:15
COLD SNACKS WITH RON + REN
WILLARD. STAN IN AT 4:15
FAIR. COULD SEE MINDIK AIRSTRIP

Memoranda

JULY, 1964

Sunday 12

PINDIU FAIR
GRAEME WILSON + IAN CALLED
DRYING SKINS. MADE E. CAUD.
GISSON ROWLES
STEPHEN + IAN HAD US
FOR DINNER

Monday 13

PINDIU FAIR
RU FLEW TO LAE ABOUT NOON
TOOK SKINS + SKULLS
STAN TOOK ZAGLOSSUS MOVIES
PRESERVED 1 OF 3 ZAGLOSSUS

Tuesday 14

PINDIU
KEN TO LAE
RU RETURNED TO PINDIU
SKINNED ZAGLOSSUS 18458

Wednesday 15

PINDIU

DICK Z. KIP SLUDER IN
TOWN. MARY + JOHN W.
L. EVENETT. JULY, 1964

Thursday 16

PINDIU → LAE

RU OFF FOR ULUR AT 10.
CARGO ON STRIP AT 7:30
FOR LAE. WAITED UNTIL
4:30 (PHIL - GESSNA). AT
CECIL. SAW KEN'S FILMS.

Friday 17

~~PINDIU~~ LAE FAIR

SAW D.C., D.O. (DES ASHTON)
MAILED FILM, PICKLED ZA-
GLOSSUS, FOOD ORDERED, SILVER
FROM BANK. PHOTOGRAPHING
IN BOTANICAL GARDEN, FROGS.

Saturday 18

LAE

HAROLD BROOKFIELD IN
TEA AT WOMERSLEY'S.
WORKED AT BOTANY SHED
PICTURES OF L.E'S CUSCO

Memoranda

P.O. GR. 1
ITABWUM - G.A. HERIOT
PINDIU - S.J. GIBSON C.P.O.
LAE - D.N. ASHTON D.O.

JULY, 1964

Sunday 19

LAE

DICK Z. + KIP SLUDER
TO WAU BY AIR.

COLL. HIGGINS'S PHALMAC
WORKED AT BOTANY SHED
TO R.S.L. TO SEE LIEVENWETT

Monday 20

LAE TO PINDIU

WROTE LETTERS UNTIL
1: A.M.

ALL SPECIMENS IN GOOD
ORDER. STRUCTURAL STEEL
ON HERB. ROOF

Tuesday 21

~~LAE~~ PINDIU

CROWLEY (AZTEC) 3:50-4:10
ITEN, STAN, VID. + CARGO

PACKING MADE UP
ZAGLOSSUS
FAIR 3075' 11:30 P.M.

Wednesday 22

PINDIU TO BERAKWAIYU

9:30 - 2:00 ARR. MONGI - KUA
DIVIDE 4700'. BERAKWAIYU 4900'
RAIN - NOON ON. MOON OUT. ITEN
STILL AT PINDIU - NEEDS 30 CARRIERS

SOME SUN P.M.

OVERCAST JULY, 1964 NO RAIN

Thursday 23 BERAKWAIYU - JAPANG
DEP. 1:45, ARR. J. 4:30

Friday 24 YAPANG FAIR
KEN MAY LEAVE PINDIV TODAY
MESSENGER ARR. J. AT 9: A.M.
9:30 - 3050'

KEN ARR. WITH CARGO 3: P.M.
K + I. SHOT 5 BATS

Saturday 25 YAPANG → NENGI → LALANG
RAIN IN EARLY A.M. CARRY OFF
AT 8:30 PLENTY OF CARRIERS
ARR. LALANG 11:30 A.M.
4500' MADE UP BAT.
FAIR WITH SOME CLOUD

T30B

Memoranda MET R. D. M. CLELAND AT
WILLARDS - SON OF SIR DONALD.
21 JULY. ALSO SCHOOL INSPECTOR
ON WAY TO SATTELBERG.

JULY, 1964

Sunday 26

LALANG RAIN!
VERY FEW CARRIERS. DO
NOT WANT TO CARRY IN
RAIN + ON SUNDAY.

Monday 27

LALANG TO AVENGU^G
^

Tuesday 28

AVENGU^G
^

Wednesday 29

AVENGU TO ULUR
8: A.M. - 4: P.M. RAIN

JULY, 1964

Thursday 30

ULUR

SETTING UP MAMMAL
TENT + FLY

Friday 31

ULUR

25 LIVE TRAPS IN MUNGAI
12 STEELS IN FOREST
5 WIRE LIVE TRAPS
1 MIST NET - EDGE OF FOREST

Saturday 1, AUGUST

ULUR

MIST NET OVER MUNGAI
STEEL TRAPS IN MUNGAI + BUSH
5 R. RUBER IN TRAPS
TOBRAM CAUGHT SMALL FROG-
MOUTH BY HAND. MADE BAT
REFLECTOR

Memoranda

ALTIMETER 8025

AUGUST, 1964

Sunday 2

ULUR

Monday 3

ULUR

Tuesday 4

ULUR

Wednesday 5

ULUR

AUGUST, 1964

Thursday 6 ULUR

Friday 7 ULUR

Saturday 8 ULUR

Memoranda

AUGUST, 1964

Sunday 9 ULUR

Monday 10 ULUR

Tuesday 11 ULUR - FAIR!

KEN MACGOWAN + TOBRAM
TO MT. ULUR SUB-CAMP
BAYONE BROUGHT IN YG. THYLOGALE

Wednesday 12 ULUR HIGH CLOUD

KEN CLIMBED ULUR
ALTIMETER 9370
KOROTAMBUK + SAMIANG

AUGUST, 1964

Thursday 13

ULUR

Friday 14

ULUR

Saturday 15

ULUR

Memoranda

AUGUST, 1964

Sunday 16 ULUR

Monday 17 ULUR

Tuesday 18 ULUR

Wednesday 19 ULUR STAN, To-
BRAM, EDEWAWA + I CLIMB-
ED ULUR - ALTIMETER 9400'
5:20 AM - 6:20 P.M.
WENT TO BASE CAMP - MT. UP HSENGA

AUGUST, 1964

Thursday 20

ULUR - RAIN

HUNTERS BROUGHT IN
4 SILKY CUSCUSES + 1
HYOMYS. SENT TO BRAM
TO TEN. RUNNER IN WITH
NOTE FROM P.O. TONY HERIOT.

Friday 21

ULUR

Saturday 22

ULUR

Memoranda

AUGUST, 1964

Sunday 23

ULUR

Monday 24

ULUR

Tuesday 25

ULUR

Wednesday 26

ULUR

AUGUST, 1964

Thursday 27

ULUR

Friday 28

ULUR

Saturday 29

ULUR

Memoranda

AUGUST, 1964

Sunday 30

ULUR

Monday 31

MT. ULUR CAMP → INDAGEN
CARRIERS DEP. 9: STAN. KENTI 9:20
7925; LUNCH PLACE 8450 (PICTURE MT. UP
PASS 8900 1:10 STR. OOBALA
6700 3:50 ARR. INDAGEN
5115 6000'

Tuesday 1, SEPTEMBER

IND TO ILOKO
DEP. 8:45 (6000) FAIR. TO
UNENU, MT. GAUN PICT.
INDA RIVER 4500' UNENU 5900
GWAMA RIVER (SWIM) 5150
2:45 ARR. ILOKO 5500

Wednesday 2

ILOKO TO KABWUM
5400 (7:30) DEP. SANAN 5675
BAMARUP TA 5150 TIPSIT
5100 8:46 UPAT 9:40 5400
5000 INPENEN 6000

SEPTEMBER, 1964

Thursday 3 KABWUM - RAIN

HERIOTS FOR DINNER

Friday 4 KABWUM

AT HERIOTS FOR DINNER

Saturday 5 KABWUM

AT L. TILLEY'S FOR DINNER

Memoranda FROG 5800'

INDUM 5600 1:10

KABWUM 5000 1:30

DRINKS WITH HERIOTS (TONY + LORRAINE)

GUNDAIO (I LOKO) GREEN SW

SEPTEMBER, 1964

10 P.M.

Sunday 6

KABWUM 4750'

PHIL CAME IN AT 11 A.M. (CESSNA)
SENT GREEN CANS + AMMO BACK TO
LAE. VISITED L. TILLEY - TOOK
PICTURES. L.T. FOR DINNER.

Monday 7

KABWUM

STONE MORTAR + PESTLE

Tuesday 8

LAE FROM KABWUM

OTTER OFF AT NOON. FINSCH-
HAFEN AT 12:40. MET BRIAN
LEE, OFF AT 1:00, LAE 2:00
ALL GEAR TO BOTANY. DRINKS AT
JOHN + MARY WOMERSLEY'S. ERIKA

Wednesday 9

LAE RAIN A.M. FAIR P.M.

P.O. BANK. CUTTINGS (AM'S CUP)
TO DES ASHTON. WORKED AT BOT.
A.M. TAA. B.P. N. OSBORN. KAM
HONG

SEPTEMBER, 1964

Thursday 10

LAE

Friday 11

LAE TO FINSCH
SAILED 10 15 P.M.

Saturday 12

FINSCHHAFFEN

ARR. MALASIGA 6 A.M.

DREGERHAFFEN 8 A.M.

STAYED AT DEPT. CIVIL AIRA.

Memoranda

OLD. GATTON

TILLEY LIONEL

AG. CFF. TABWUM

CAPT. EDWARD FORD

BRIAN + PAT LEE

SEPTEMBER, 1964

Sunday 13

FINSCH

Monday 14

FINSCH

Tuesday 15

FINSCH

Wednesday 16

FINSCH

SEPTEMBER, 1964

Thursday 17

FINSCH

Friday 18

FINSCH

Saturday 19

FINSCH

Memoranda

MR. + MRS. ERIC COYLE
MR. + MRS. JOHN SMITH
MR. + MRS. JOHN H. CATES
MR. + MRS. ROBERT MATHESON
DAVID LAWREY P.O.

SEPTEMBER, 1964

Sunday 20

FINSCH

Monday 21

FINSCH

Tuesday 22

FINSCH

Wednesday 23

FINSCH

SEPTEMBER, 1964

Thursday 24

FINSCH

Friday 25

FINSCH

1ST HYDROMYS FOR TRIP

Saturday 26

FINSCH TO LAE

SAILED 9:00 A.M.
RAIN UNTIL NOON. FARE II
BOUGHT TAMI IS. WOODEN W.
FROM T. OATES ARR. LAE 4:
AT T.A.A.

Memoranda

ERIC SEETO

(SON DERICK)

TED (EDWARD) FORD

"BERINGA"

SEPTEMBER, 1964

Sunday 27

LAE

Monday 28

LAE

MOVED TO S. I. L.
ON PINGIANGA MR. + MRS
TERRY ALLEN (JAN)

TANIS TO PINDIV

Tuesday 29

LAE

Wednesday 30

LAE

B.M. PARTY / OLIVE
JEREMY, MICHAEL BARCKUS
ROY POLLEN TO GUSAP

OCTOBER, 1964

Thursday 1

LAE

Friday 2

LAE

TROOP RAISING CELEBRATION AT LAE HERBARIUM.

TREVOR WALKER, ALAN EDDY
TO GUSAP

Saturday 3

LAE

STANDER. FOR P.M.
A.M. D.C.B. MOVIES
WITH S.I.L. PEOPLE.
WORKED AT BOTANY

Memoranda

L.E. (LEE + MEG
ASHTON)

OCTOBER, 1964

Sunday 4

LAE

WORKED AT BOTANY
SHED. PICNIC SUPPER
WITH ALLENS AT STEWART
PARK

Monday 5

LAE

DINNER AT L. ASHTON'S
MEO, LEE, MATRON HOXLEY, MISS
DAVIS

Tuesday 6

LAE

GOLF WITH HORRIE
NIALL, GEORGE NIGHTINGALE,
GALE, L. E. ASHTON

DINNER AT OSBORN'S

Wednesday 7

LAE

RU TO ILOKO FROM TOP
CAMP - 7 HOURS

OCTOBER, 1964

Thursday 8 LAE

RU - ILOKO TO KABWUM

GOLF + DINNER WITH BETTY
+ PERCE WARD

Friday 9 LAE

RU'S CARGO, KIM + WAWA
TO KABWUM

Saturday 10 LAE - RU, KIM, DAR-
SON, WAWAINA ARRIVED 10:
A.M.

DINNER WITH HUMPHRIES
(HILDA + BILL)

Memoranda BETTY + PERCE
WARD - PRES. LAE
GOLF CLUB - MET
AT SAMARAI

OCTOBER, 1964

Sunday 11 LAE

VISITED MRS. JENSEN AT
DAIRY FARM (NEE GRAHAM)
DAUGHTER JILL (MRS. LEWIS)

WORKED AT BOTANY

Monday 12 LAE - DARSON + WA-
WAINA FLEW TO PINDIU.

VISITED LYNN + PETER VAN
ROYEN - SNAKE COLLECTION

Tuesday 13 LAE - RU FLEW TO
CANBERRA. V.D. TO GARRINA
TO PICK UP SNAKE COLLECTION
FROM ANGUS HUTTON.

DINNER: MATRON HUXLEY, MEG +
LEE ASHTON, MRS. MILLAR, ARTHUR II.

Wednesday 14 LAE

OCTOBER, 1964

Thursday 15

LAE

SKINNED
TR. CL. MAN.
KEVIN BELL

GOLF LEE ASHTON
WARD + HARRY

DINNER AT MILLARS

Friday 16

LAE

3"-4" RAIN P.M.

MEG ASHTON + KEN JAMES
TO TAA FOR DINNER + TO
MOVIES "ZULU"

CRATED WITH KIM

Saturday 17

LAE

DINNER AT CROWLEYS

Memoranda

METEOROLOGIST =
ARTHUR DOUGLAS

OCTOBER, 1964

Sunday 18

LAE

CRATING

DINNER AT ARTHUR DOUGLAS, DR MORETON, DOROTHY MILLAR, MR. + MRS JOHN MILLAR, JIM, MRS.

Monday 19

LAE

CRATING. HELPED BY TED IRWIN + ADRIAN I.

Tuesday 20

LAE

CRATING - KIM

RSL - SAW LIONEL

Wednesday 21

LAE

FINISHED CRATING

KIM TO BETTY CROWLEY

OCTOBER, 1964

Thursday 22 LAE TO P.M.

Friday 23 P.M. TO MILNE BAY
TO SAMARAI

ERNIE EVENNETTS

"SIRIUS" NIGHT AT MILLER

Saturday 24 SAMARAI TO
GOODENOUGH IS.

Memoranda MRS. DES ASHTON
AT COLYER-WATSON

OCTOBER, 1964

Sunday 25

G.I.

ARR. 1: A.M.

Monday 26

G.I.

Tuesday 27

G.I.

Wednesday 28

G.I.

OCTOBER, 1964

Thursday 29

G.I.

Friday 30

G.I.

Saturday 31

G.I.

Memoranda

NOVEMBER, 1964

Sunday 1

G.I.

Monday 2

G.I.

Tuesday 3

G.I.

Wednesday 4

G.I.

NOVEMBER, 1964

Thursday 5

G. I. to P. M.

11:15 A.M. → 3:15

LOSUIA (TROB. IS.) + POPONDETTA
NIGHT AT RAPSONS

AILSA'S 42ND BIRTHDAY

Friday 6

P. M. TO BRISBANE

LECTURE NAT. PARKS ASSO.

CAPE YORK + N.G.

DINNER WITH FARROTTS

FROM P. M. WITH KEN MACGOWAN

11:15 A.M. 4:15 KEITH MET ME.

Saturday 7

BRISBANE → NOOSA

SPENT LAST NIGHT AT JIM +
CECILY FEARNLEY'S.

DROVE TO NOOSA HEADS

WITH F'S. 3½ MI. WALK ALONG

HEADS. NIGHT AT THEIR COTTAGE

Memoranda

CELIA (10) - 7 MARCH

JONATHAN (9) - 2 NOV.

ANNE (3) - 14 JUNE

ROGER (5) - 29 JULY

CECILY (?) - 8 MARCH

23 NOV /
JIM

NOVEMBER, 1964

Sunday 8

NOOSA → BRISBANE
BREAKFAST AT LOOKOUT
BLACK BUTT RANGE SKY-
LINE DRIVE - GLASSHOUSE MTS.
NIGHT AT F'S - HAPPY VALLEY
JACARANDAS IN BLOOM

Monday 9
A.M.

BRISBANE
SORTED PAPERS + LETTERS
NIGHT AT FEARNLEY'S

Tuesday 10

BRISBANE
NIGHT AT JARROTT'S

Wednesday 11

BRISBANE
JARROTT'S

NOVEMBER, 1964

CHERUB ST.

Thursday 12 BRISBANE → TUGUN
MRS. W.L. MACGOWAN - DROVE
DOWN WITH KEN. SAW KEN'S
MOVIES - 3 REELS

Friday 13 TUGUN → BRISBANE
VISITED DAVID + SIGRID
FLEAY. TOOK BREEDENS
TO DINNER + MOVIES

Saturday 14 BRISBANE
DINNER WITH VERNONS
LUNCH WITH BREEDENS

Memoranda

NOVEMBER, 1964

Sunday 15

BRISBANE → SYDNEY

HYDE PARK HOTEL

SYDNEY HOSPITAL - SISTER MARLIN

(MATRON IRWIN - P.M.)

PENICILLIN INJECTION

Monday 16

SYDNEY

HOSPITAL - NEW DRESSINGS

SAW MARLOW AT MUSEUM.

Tuesday 17

SYDNEY → PERTH

727 JET - 4:40 MIN.

RIDE MET ME. TO MUSEUM

Wednesday 18

PERTH

LOOKED AT SKINS WITH BUTLER

DINNER WITH MR + MRS. M.L. FRY

LOOKED AT HER MAMMAL DRAWINGS

NOVEMBER, 1964

Thursday 19

PERTH

AT MUSEUM. LUNCH WITH PROF.
+ MRS. HODGKINS, + RIDE. SAW
DOM SERVENTY. DINNER AT RIDES.
H. BUTLER'S MOVIES. VISITED MCGANN'S
MR + MRS. BUTLER TOOK ME TO AIRPORT

Friday 20

M. RIDE'S BIRTHDAY
PERTH → MELBOURNE

12:30 A.M. - 7: A.M. DIRECT
SAW LYNN OSBORN AT ST. KILDA
CALLED ON MR. + MRS. GORDON
FAWNS, MCKINNON. SAW
DR. NO. HOTEL LONDON

Saturday 21

~~PERTH~~ MELBOURNE

LOOKED AT PICTURES
AT RENE'S. LUNCH W.
GEOFF BROOKE. D. AT
10 P.M. INNER

Memoranda

NOVEMBER, 1964

Sunday 22

MELBOURNE
BR. W. RENE LUNCH W.
R. JUDY + DN. AT EMERALD
COUNTRY CLUB. DINNER
WITH BEN + ISABEL +
RENE + JUDY.

Monday 23

MELBOURNE
D. W. D. P.M. WITH JOHN
THOMSON. BROOKES
TAPED AN INTERVIEW.
LUNCH W. GEOFF + GRAHAM
PIZZEY. SAW J. McNALLY.

Tuesday 24

M → CANBERRA
BR. W. D. LUNCH WITH
JOHN McNALLY + RENE
EVENING WITH JOHN
CALABY. IN CANBERRA - HAS
NEW LIBRARY ROOM.

Wednesday 25

CANBERRA
R. HOOGLAND IN A.M. + LUNCH
DIV. W. RES. IN P.M. KENT KEITH
LOOKED AT N.G. MAMMALS. ALSO
N.S.W. J. CALABY. DINNER W. CALABY.

NOVEMBER, 1964

Thursday 26

CANBERRA

TO R. HOOGLAND'S OFFICE TO
MEET ALLEN STEWART, CHIEF
OF DIV. OF LAND SURVEY

GUEST EVENING AT HOOGLAND'S

Friday 27

C → SYDNEY

ARR. 2: P.M. TO AUST.

MUSEUM TO SEE MARLOW
LETTERS FROM HOME.

D. C. P. M.

Saturday 28

SYDNEY

DINNER W. MARLOWS AT
NARRABEEN. SAW NEW HOME
HAS PLANIGALE. FERRY
TO MANLEY BOTH WAYS.

Memoranda

NANA, 2 DAUGHTERS
To (BASIL'S WIFE)

NOVEMBER, 1964

Sunday 29

SYDNEY

Monday 30

SYDNEY

Tuesday 1, DECEMBER

SYDNEY

Wednesday 2

SYDNEY

DECEMBER, 1964

Thursday 3

SYDNEY

Friday 4

SYDNEY

TARONGA PARK

SIR EDWARD HALLSTROM

PICTURES OF DRAGONS

Saturday 5

SYDNEY

Memoranda

DECEMBER, 1964

Sunday 6

SYDNEY

COLD - CLOUDY

2 { MON
Monday 7 SYDNEY - FIJI - HAWAII
SAN FRANCISCO
MUSEUM A.M. IN SYDNEY

PHONED KAY + JIM REED

Tuesday 8

SAN FR. - N.Y.C.

ARR. 7:30 A.M. HOME 10:AM

Wednesday 9

N.Y.C.

MUSEUM

DECEMBER, 1964

Thursday 10 N.Y.C.
MUSEUM

Friday 11 N.Y.C.
MUSEUM

Saturday 12

Memoranda

DECEMBER, 1964

Sunday 13

Monday 14

Tuesday 15

Wednesday 16

DECEMBER, 1964

Thursday 17

05 yabau2

Friday 18

12 yabuom

Saturday 19

22 yabuom7

Memoranda

23 yabuomw

DECEMBER, 1964

Sunday 20

71 yobmof

Monday 21

81 yobmof

Tuesday 22

91 yobmof

Wednesday 23

01 yobmof

DECEMBER, 1964

Thursday 24

Friday 25

Saturday 26

Memoranda

DECEMBER, 1964

Sunday 27

27 yobuol

Monday 28

28 yobuol

Tuesday 29

29 yobuol

Wednesday 30

30 yobuol

DECEMBER, 1964

Thursday 31

SPECIAL DATA

FINSCH AREA MAP
No. 0460 LANGEMAN
BAY 1:25000 SERIES
AUST FED. SVY. COY. 1944

DATE

SOCIAL SECURITY RECORD
EMPLOYER

AMOUNT

JAN

MINISTER CARPET 99

N: BROOK. HILL 41

OPT. IND. 58

FEB.

MAR.

APRIL

DATE SOCIAL SECURITY RECORD AMOUNT
EMPLOYER

MAY

JUNE

JULY

AUG.

DATE

SOCIAL SECURITY RECORD
EMPLOYER

AMOUNT

SEPT.

OCT.

Nov.

DEC.

2 July 1964

ADDRESSES

E-F

No clouds

NAME ALTIMETER 4625'

ADDRESS LEFT CAMP 10:05

GANG CR. 4525' CROSSING

PHONE 10:30 TRAIL X Z. - Top C.
5000'

PANDANUS PORTAL 10:50 5400

NAME RD TO NUMBUT 100^{YD}

ADDRESS TOP CAMP 6000' 11:20

PHONE LEFT TOP CAMP 11:45

WATER HOLE 6500' 12:15

PLACE BILONG MURUK 12:45

NAME 1: P.M. (6950') 7100'

ADDRESS 1:15 "TOP" K 7300'

1:30 TRUE TOP 7450'

PHONE 2:30 " " 7450'

2:50 K Top 7375'

3:30 WATER HOLE 6580'

NAME 3:45 TOP CAMP 6025'

ADDRESS 4:30 LEFT TOP CAMP

4:50 X NUMBUT 5500'

PHONE 5:30 ARR. GANG CR. CAMP

4700'

JULY 8, 1964

G-H

ADDRESSES

Wed.

NAME

9: Dep. Z.#2

ADDRESS

9:15 Z#1

PHONE

9:50 NUMBENG CR
10: BIG GARDEN

NAME

10:10 TOKOLAT CR.

ADDRESS

10:15 MUMON CR.
10:45 13ULUM R.

PHONE

11:30 MARAN (ARR.)
ALT 3400 (RU'S ALT.)

LEFT MARAN 1:05

NAME

ARR. SELEMBANG 2:50

ADDRESS

ARR. OGERAMNANG

PHONE

3:30 TO 4:05

JULY 10 8:30

NAME

DEP. OGERAMNANG

ADDRESS

ARR. T030 12:45

PHONE

COHL. 3 FROGS @ 5000'
RAIN AM. CLEAR IN 1
HVA VALLEY T030 4600

ADDRESSES

I-J-K

SEP. 4: P.M.

NAME

TOGO TO JAPAN 3000'

ADDRESS

ARR. 6:45 P.M.

PHONE

NAME

MR. + MRS. JOHN GETTING

ADDRESS

BELAIR, S.A.

PHONE

GUINEA AIRWAYS

CHIEF ENG. 19305

T.A.A. LODGE 8 SEPT. 64

MET R. ARCHBOLD

NAME

ADDRESS

PHONE

NAME

ADDRESS

PHONE

L

JAN. 1965

ADDRESSES

WROTE REPORT

NAME

MANAGER, NAMASU, LAE

ADDRESS

WILHELM FUGMANN

PHONE (KNEW LEN + DICK)

DARRELL CONWELL (BRISBANE)

26 SEPT. 1964 - TRUCK FOR OUR CARGO

NAME

WALTER + MURIEL LARNER

ADDRESS

NOV. 20, 1964 ON →

CORNER CHAFFEE ST. AND

PHONE

NARRANE

MR. KEN LEE, STEAMSHIPS, PT. M. ^{Nov. 6, 1964}

NAME

LINDSAY BURKE

ADDRESS

TOM HARTLEY

LAB AT BOTANIC GARDEN

PHONE

GIFT OF SNAKES (SEPT. 1964) LAE

NAME

JOE + BETTY HAVEL

ADDRESS

LAE SEPT. 27, 1964

PHONE

PILOT MIKE MOYLAN

KATBWM TO LAE

8 SEPT. 1964

ADDRESSES

O M

NAME MR. W. JENKIN &

ADDRESS MR. J.C. Dowien

PHONE FORESTS

W.A.F.

L
P
Z
W
N
E
H

NAME WEN'S REPORT

ADDRESS R.S.L. Club July 1964

PHONE

(MARGARET)

NAME MR. + MRS. Roy MACKAY

ADDRESS PAPUA + NEW GUINEA
MUSEUM

PHONE % SUPREME COURT
PORT MORESBY

NEW CURATOR - NOV. 1964

NAME

ADDRESS

PHONE

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ADDRESSES

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ADDRESSES

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PHONE

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PHONE

ADDRESSES

1964
U.S.

NAME MR. ARTHUR SCOTT
ADDRESS 40 U.S. LINES
PIER 62 NORTH RIVER
PHONE N.Y. N.Y. 10011

NAME

ADDRESS

PHONE

NAME

ADDRESS

PHONE

NAME

ADDRESS

PHONE

T-U

ADDRESSES

NAME LIONEL G. W. TILLEY
ADDRESS QLD. AGRICULTURAL COLLEGE
LAWES, QLD.
PHONE (NEAR GATTON - 30 MI. E.
OF TOOWOOMBA)
(AGR. OFFICER AT KABWUM 1964)

NAME

ADDRESS

PHONE

NAME

ADDRESS

PHONE

NAME

ADDRESS

PHONE

AS OF 17 JULY 1964

ADDRESSES

V-W

NAME D.O. D.N. ASHTON LAE

ADDRESS A.D.O. GR.2 J.P. SINCLAIR WAU

ADO GR.1 J.L. HASTINGS LAE

PHONE " P.T. MOLONEY KIRIPIT

" K. WALTERS LAE

" G. SMITH FINSCHHAFEN

NAME " R.D.M. CLELAND LAE

ADDRESS " P.T. WRIGHT MUMENG

P.O. GR.2 D.J. LAWREY FINSCH.

PHONE " J.F. HANNAH LAE

" R.I. BARCLAY ~~LAE~~

" B.D. BROWN WAU

NAME " A.P. WOODS

" C.D. WAITE

ADDRESS

P.O. GR.1 R. WILLARD PINDIV

PHONE

D.O. S.M. FOLEY HAGEN

NAME ADO GR.2 W.W. CRELLIN SAMARAI

ADDRESS " J.A. FREN ESA'ALA

" H.F. CHESTER SAMARAI

PHONE P.O.

BERAK WAIYU

X-Y-Z

BB ### ## ### ##

ADDRESSES

NAME

BB ### (11) (26)

ADDRESS

PHONE

M ### ## ## ## ##

NAME

M ### ## ## ## ## (57)

ADDRESS

PHONE

P ### ## ## (13)

NAME

MONK. (GUN-1)

ADDRESS

PHONE

(5)

NAME

ADDRESS

PHONE

Cash Account JANUARY

	Received	Paid
GETPEREM	POGON	MYS
SET = FEMUR CASSOWARY		
DUBAT = LOWER LEG BONE		
6 JULY 1964		
BOUGHT FROM GRAYSON		
KILUMUNG		
GEUSE = BILUM		
ZAGLOSSUS (Z)		
VBANUNG		
BERAKWAIYU		
SMILING MAN		
TEOS		

~~BE-RANG~~

~~KIRIN~~

Labode

MOM SIN = LAKEGUAM

GARE (TUTUL)

FATHER OF "REG" (INDAGEN)

UPUSENGA

Cash Account FEBRUARY

LUMBU

Received

Paid

22 JULY 1964

Cash Account MARCH

	Received	Paid
9:42 DEP. PINDIU	3000'	
10:10 TOP RIDGE	3750'	
11:15 WAGIZALE	3800'	
12:45 DIVIDE (M-K)	4700'	
1:00 UNSESU	4700'	
2:00 BERAKWAIYU	4900'	
1:45 HAT. LAND	5000'	

23 JULY

1:45 Dep. B.	4900'	
3:30 MEM CREEK	2725'	
LOW PT	2650'	
4:30 TAPANG	3150'	
(7:45 P.M.)	3100'	

25 JULY

Cash Account APRIL

DEP. JAP. 2	Received	Paid
8:30	3100	
JAPANG #1	8:50	3350
SAGO PALMS		3100
NANAI	9:30	3300
KESUL CR.	10: A.M.	3050
LALANG	11:30	4500
" 26 July	2:15	4600

27 JULY

DEP LALANG	8:30	4500
SUMBUA CR	9:00	4050
BINGHEM CR.	9:05	4050
" #2	9:15	4200
POZZERONG	10:00	4600
KANEN CR	10:30	3875
SULU	CR. 1:00	4600
ARR. AVENGU	1:30	5300

29 JULY

Cash Account MAY

	Received	Paid
DEP. AVENGU 8: -	5225	
BETZET FALLS CR	4900	
PRANGAN CR. 8:15		
COFFEE HOUSE	5000	
TAIT MARUM	4900	
9:30	4650	
BOTTOM		
RHO. MAC. 9:30	5200	
FROGS 5400 KUWAI	-7000'	
DIVIDE KUA 1:30	7800	
+ MONGI WATERS		
HIGH POINT	8300'	
ARR. ULUR CAMP 4:10	7000'	

LIZ. | BLIND SNAKE | SCOR.
Cash Account SEPTEMBER | LAE

	Received	Paid
WARREN IRWIN P.O. S.I., L.		

UKARUMPA
EH. DISTRICT
T.N.G.

(Send report)
ACK.

Cash Account DECEMBER

	Received	Paid
SAM = PANDANUS		
FRUIT		
SUT = FEMUR		
DUBAT = LOWER LEG.		
QUELA = CASSOWARY		
ZEBUNUNG		

RON CARNE

AIYURA

MAMMAL COLL.

AGRON IN CHARGE

JOHN BARRETT

DISE - BRISBANE

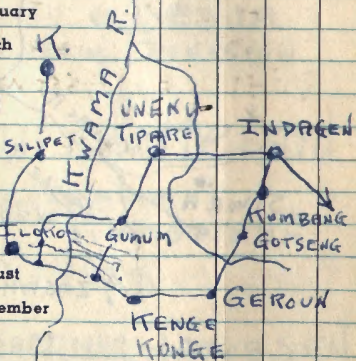
SCHLAGEN
HARBOR

WASU VINCKE POINT

SUMMARY

	Received	Paid
On hand January 1		
January		
February		
March		
April		
May		
June		
July		
August		
September		
October		
November		
December		
MR. S. Total		

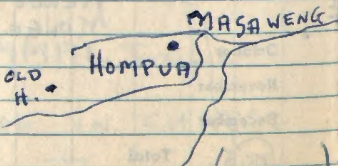
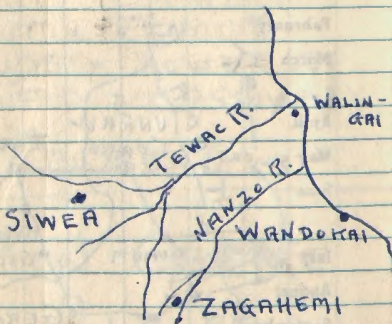
Balance to new account



BRUCE HOOLEY

KODACHROME MEMORANDA

I C 166768 (3-14-1964) F.



BALL - HONDO (ILOKO)
ITUMBA TALK

→ UKARUMPA E.H.D.

MEMORANDA

IAN ROWLES
AGRICULTURAL OFFICER
PINDIU PATROL POST
HUBE + DEDUA
CENSUS DIVISION

Neuendettelsau

ELIZABETH
GROSSMANN
MINDIK

R. } WERNER JACOBSEN
COR. ROBERTSON
BOX 67
LAKE
BUTTERFLIES

G. Harris 2410

MEMORANDA

P → MINDIK ^{2 1/2} → OLIGANANG
→ ZENGARAN

Oh. ^{1 HR} → SENGETA

S ^{1/2} → SELIMBANG

SEL. ¹ → MARAN

M ² → ZENG.

PINDIU → UNGSESU

U. → BERAKWAIYU ^{Siu}

B. → LAWANG → Pod.

P. → AYENGU

A. → HOUSE KUNAI

PODZORONG

MILTON SNEDEKER CORP'N



M

ODERN
ETHODS
AINTAINED IN
OVING
ERCHANDISING
EANS

S

ATISFACTION
AFETY AND
AVING VIA
NEDEKER
HIPPING
ERVICE

OCEAN FREIGHT FORWARDERS
CUSTOM HOUSE BROKERS
AIR CARGO AGENTS

MILTON SNEDEKER CORP'N

44 WHITEHALL ST.

NEW YORK 4, N. Y.

FEDERAL MARITIME COMMISSION
NO. 229

MEMBER—

NEW YORK FOREIGN FREIGHT
FORWARDERS & BROKERS ASS'N.

NATIONAL CUSTOM BROKERS &
FORWARDERS ASS'N.
OF AMERICA, INC.

MARITIME ASSOCIATION—PORT OF
NEW YORK

COMMERCE & INDUSTRY ASSOCIATION
OF NEW YORK

FOREIGN COMMERCE CLUB OF
NEW YORK

REFERS TO—

FIRST NATIONAL CITY BANK,
NEW YORK

MORGAN GUARANTY TRUST CO. OF
NEW YORK

THE CHASE MANHATTAN BANK,
NEW YORK

CORRESPONDENTS EVERYWHERE

1965		1965														
	SUN.	MON.	TUE.	WED.	THU.	FRI.	SAT.		SUN.	MON.	TUE.	WED.	THU.	FRI.	SAT.	
JAN						1	2	JUL						1	2	3
	3	4	5	6	7	8	9		4	5	6	7	8	9	10	
	10	11	12	13	14	15	16		11	12	13	14	15	16	17	
	17	18	19	20	21	22	23		18	19	20	21	22	23	24	
	24	25	26	27	28	29	30		25	26	27	28	29	30	31	
	31							1	2	3	4	5	6	7		
FEB		1	2	3	4	5	6	AUG	8	9	10	11	12	13	14	
	7	8	9	10	11	12	13		15	16	17	18	19	20	21	
	14	15	16	17	18	19	20		22	23	24	25	26	27	28	
	21	22	23	24	25	26	27		29	30	31					
	28											1	2	3	4	
MAR		1	2	3	4	5	6	SEP	5	6	7	8	9	10	11	
	7	8	9	10	11	12	13		12	13	14	15	16	17	18	
	14	15	16	17	18	19	20		19	20	21	22	23	24	25	
	21	22	23	24	25	26	27		26	27	28	29	30			
	28	29	30	31										1	2	
APR					1	2	3	OCT	3	4	5	6	7	8	9	
	4	5	6	7	8	9	10		10	11	12	13	14	15	16	
	11	12	13	14	15	16	17		17	18	19	20	21	22	23	
	18	19	20	21	22	23	24		24	25	26	27	28	29	30	
	25	26	27	28	29	30			31							
MAY							1	NOV		1	2	3	4	5	6	
	2	3	4	5	6	7	8		7	8	9	10	11	12	13	
	9	10	11	12	13	14	15		14	15	16	17	18	19	20	
	16	17	18	19	20	21	22		21	22	23	24	25	26	27	
	23	24	25	26	27	28	29		28	29	30					
	30	31														
JUN			1	2	3	4	5	DEC				1	2	3	4	
	6	7	8	9	10	11	12		5	6	7	8	9	10	11	
	13	14	15	16	17	18	19		12	13	14	15	16	17	18	
	20	21	22	23	24	25	26		19	20	21	22	23	24	25	
	27	28	29	30					26	27	28	29	30	31		

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100221982

