

# 12 GENERAL REFERENCE TABLES

## TIME ZONES

City	Z	City	Z
<b>United States</b>		New York, New York	-5
Albuquerque, N.Mexico	-7	Oklahoma City, Oklahoma	-6
Anchorage, Alaska	-9	Omaha, Nebraska	-6
Atlanta, Georgia	-5	Pensacola, Florida	-6
Baltimore, Maryland	-5	Philadelphia, Pennsylvania	-5
Bangor, Maine	-5	Phoenix, Arizona	-7
Bismarck, North Dakota	-6	Pittsburgh, Pennsylvania	-5
Boise, Idaho	-7	Portland, Maine	-5
Boston, Massachusetts	-5	Portland, Oregon	-8
Buffalo, New York	-5	Rochester, New York	-5
Charleston, West Virginia	-5	Salt Lake City, Utah	-7
Chesapeake, Virginia	-5	San Diego, California	-8
Cheyenne, Wyoming	-7	San Francisco, California	-8
Chicago, Illinois	-6	Sault St Marie, Michigan	-5
Cincinnati, Ohio	-5	Savannah, Georgia	-5
Cleveland, Ohio	-5	Seattle, Washington	-8
Dallas, Texas	-6	Sioux Falls, South Dakota	-6
Denver, Colorado	-7	St Louis, Missouri	-6
Des Moines, Iowa	-6	Toledo, Ohio	-5
Detroit, Michigan	-5	Tucson, Arizona	-7
Duluth, Wisconsin	-6	Washington, D.C.	-5
Erie, Pennsylvania	-5	Wichita, Kansas	-6
Honolulu, Hawaii	-10	<b>Canada</b>	
Houston, Texas	-6	Calgary, Alberta	-7
Indianapolis, Indiana	-5	Charlottetown, P.E.I.	-4
Jackson, Mississippi	-6	Edmonton, Alberta	-7
Jacksonville, Florida	-5	Halifax, Nova Scotia	-4
Juneau, Alaska	-9	Kingston, Ontario	-5
Kansas City, Missouri	-6	Montreal, Quebec	-5
Las Vegas, Nevada	-8	Port Colbourne, Ontario	-5
Little Rock, Arkansas	-6	Quebec, Quebec	-5
Los Angeles, California	-8	Regina, Saskatchewan	-6
Louisville, Kentucky	-5	Saint John, New Brunswick	-4
Memphis, Tennessee	-6	St John's, Newfoundland	-3.5
Miami, Florida	-5	Thunder Bay, Ontario	-5
Milwaukee, Wisconsin	-6	Toronto, Ontario	-5
Minneapolis, Minnesota	-6	Vancouver, British Columbia	-8
Mobile, Alabama	-6	Victoria, British Columbia	-8
New Orleans, Louisiana	-6	Winnipeg, Manitoba	-6

(-) = subtract from UTC, (+) = add to UTC, to get local time

TABLE 12-1: United States And Canada Standard Time Differences from UTC. For Daylight Savings Add 1 Hour

**NATIONAL HOLIDAYS****United States Holidays**

Federal holidays in the United States are observed by all federal offices including the post office. Most of the individual states have adopted these as legal state holidays. In addition, most states have one or more state specific holidays in addition to those shown in the table.

Holiday	Date
New Year's Day	1-Jan
Martin Luther King Day	3rd Monday in January
President's Day	3rd Monday in February
Good Friday	Friday before Easter
Easter	Sunday as defined by explanation in note 1 below. Next 8 years are: 16Apr06 08Apr07 23Mar08 12Apr09 04Apr10 24Apr11 08Apr12 31Mar13
Memorial Day	Last Monday in May
Independence Day	4-Jul
Labor Day	1st Monday in September
Columbus Day	2nd Monday in October
Veteran's Day	11-Nov
Thanksgiving Day	4th Thursday in November
Christmas Day	December 25th

1. Easter falls on the 1st Sunday following the 1st ecclesiastical full moon that occurs on or after the day of the vernal equinox which is March 21st. Note that the ecclesiastical full moon is determined from tables and is not always exactly equal to the astronomical full moon. Easter always occurs between March 22 and April 25.

TABLE 12-3: U. S. Holidays

**Canadian Holidays**

The following table lists Canadian holidays at the national level. Individual provinces will have at least one additional holiday, most of which are scheduled during August.

Holiday	Date
New Year's Day	1-Jan
Good Friday	Friday before Easter
Easter	(See Easter for the U.S. Above)
Victoria Day	Monday preceding May 25
Canada Day	July 1. July 2 if July 1 is a Sunday
Labor Day	1st Monday of September
Thanksgiving Day	2nd Monday of October
Remembrance Day	11-Nov
Christmas	25-Dec
Boxing Day	26-Dec

TABLE 12-4: Canadian Holidays

## MEASUREMENT CONVERSION TABLES

### INCH FRACTIONS TO DECIMAL INCHES AND MILLIMETERS

Inches			mm	Inches			mm
1/64	Fract	Decimal		1/64	Fract	Decimal	
1		0.015625	0.396875	33		0.515625	13.096875
2	1/32	0.03125	0.79375	34	17/32	0.53125	13.49375
3		0.046875	1.190625	35		0.546875	13.890625
4	1/16	0.0625	1.5875	36	9/16	0.5625	14.2875
5		0.078125	1.984375	37		0.578125	14.684375
6	3/32	0.09375	2.38125	38	19/32	0.59375	15.08125
7		0.109375	2.778125	39		0.609375	15.478125
8	1/8	0.125	3.175	40	5/8	0.625	15.875
9		0.140625	3.571875	41		0.640625	16.271875
10	5/32	0.15625	3.96875	42	21/32	0.65625	16.66875
11		0.171875	4.365625	43		0.671875	17.065625
12	3/16	0.1875	4.7625	44	11/16	0.6875	17.4625
13		0.203125	5.159375	45		0.703125	17.859375
14	7/32	0.21875	5.55625	46	23/32	0.71875	18.25625
15		0.234375	5.953125	47		0.734375	18.653125
16	1/4	0.25	6.35	48	3/4	0.75	19.05
17		0.265625	6.746875	49		0.765625	19.446875
18	9/32	0.28125	7.14375	50	25/32	0.78125	19.84375
19		0.296875	7.540625	51		0.796875	20.240625
20	5/16	0.3125	7.9375	52	13/16	0.8125	20.6375
21		0.328125	8.334375	53		0.828125	21.034375
22	11/32	0.34375	8.73125	54	27/32	0.84375	21.43125
23		0.359375	9.128125	55		0.859375	21.828125
24	3/8	0.375	9.525	56	7/8	0.875	22.225
25		0.390625	9.921875	57		0.890625	22.621875
26	13/32	0.40625	10.31875	58	29/32	0.90625	23.01875
27		0.421875	10.715625	59		0.921875	23.415625
28	7/16	0.4375	11.1125	60	15/16	0.9375	23.8125
29		0.453125	11.509375	61		0.953125	24.209375
30	15/32	0.46875	11.90625	62	31/32	0.96875	24.60625
31		0.484375	12.303125	63		0.984375	25.003125
32	1/2	0.5	12.7	64	1	1	25.4

TABLE 12-12: Convert Fractions to Decimal

**WEIGHT AND VOLUME OF LIQUIDS****Water Weight and Volume Conversion**

<b>From</b>	<b>To</b>	<b>Multiply By</b>
<b>cu feet H2O</b>		
	gallons (Imperial) H2O	6.2288
	gallons (U.S.) H2O	7.4805
	kilograms H2O	28.317
	liters H2O	28.317
	pounds H2O	62.428
<b>gallons (Imperial) H2O</b>		
	cu feet H2O	0.16054
	gallons (U.S.) H2O	1.2009
	kilograms H2O	4.5461
	liters H2O	4.5461
	pounds H2O	10.022
<b>gallons (U.S.) H2O</b>		
	cu feet H2O	0.13368
	gallons (Imperial) H2O	0.83267
	kilograms H2O	3.7854
	liters H2O	3.7854
	pounds H2O	8.3454
<b>kilograms H2O</b>		
	cu feet H2O	0.035315
	gallons (Imperial) H2O	0.21997
	gallons (U.S.) H2O	0.26417
	liters H2O	1
	pounds H2O	2.2046
<b>liters H2O</b>		
	cu feet H2O	0.035315
	gallons (Imperial) H2O	0.21997
	gallons (U.S.) H2O	0.26417
	kilograms H2O	1
	pounds H2O	2.2046
<b>pounds H2O</b>		
	cu feet H2O	0.016019
	gallons (Imperial) H2O	0.099776
	gallons (U.S.) H2O	0.11983
	kilograms H2O	0.45359
	liters H2O	0.45359

TABLE 12-16: *Weight and Volume of Water*

Gal- Lons	Fuel / Oil Ratio									
	20:1	24:1	28:1	32:1	40:1	50:1	100:1			
1	6.4 oz 190 ml	5.3 oz 160 ml	4.6 oz 140 ml	4 oz 120 ml	3.2 oz 90 ml	2.6 oz 80 ml	1.3 oz 40 ml			
2	13 oz 380 ml	11 oz 330 ml	9 oz 270 ml	8 oz 240 ml	6.4 oz 190 ml	5.1 oz 150 ml	2.6 oz 80 ml			
3	19 oz 560 ml	16 oz 470 ml	14 oz 410 ml	12 oz 350 ml	10 oz 300 ml	7.7 oz 230 ml	3.8 oz 110 ml			
4	26 oz 770 ml	21 oz 620 ml	18 oz 530 ml	16 oz 470 ml	13 oz 380 ml	10 oz 300 ml	5.1 oz 150 ml			
5	1 qt 0.9 l	27 oz 800 ml	23 oz 680 ml	20 oz 590 ml	16 oz 470 ml	13 oz 380 ml	6.4 oz 190 ml			
6	1.2 qt 1.1 l	1 qt 0.9 l	27 oz 800 ml	24 oz 710 ml	19 oz 560 ml	15 oz 440 ml	7.7 oz 230 ml			
7	1.4 qt 1.3 l	1.2 qt 1.1 l	1 qt 0.9 l	28 oz 830 ml	22 oz 650 ml	18 oz 530 ml	9 oz 270 ml			
8	1.6 qt 1.5 l	1.3 qt 1.2 l	1.1 qt 1 l	1 qt 0.9 l	26 oz 770 ml	20 oz 590 ml	10 oz 300 ml			
9	1.8 qt 1.7 l	1.5 qt 1.4 l	1.3 qt 1.2 l	1.1 qt 1 l	29 oz 860 ml	23 oz 680 ml	12 oz 350 ml			
10	2 qt 1.9 l	1.7 qt 1.6 l	1.4 qt 1.3 l	1.3 qt 1.2 l	1 qt 0.9 l	26 oz 770 ml	13 oz 380 ml			
12	2.4 qt 2.3 l	2 qt 1.9 l	1.7 qt 1.6 l	1.5 qt 1.4 l	1.2 qt 1.1 l	31 oz 920 ml	15 oz 440 ml			
14	2.8 qt 2.6 l	2.3 qt 2.2 l	2 qt 1.9 l	1.8 qt 1.7 l	1.4 qt 1.3 l	1.1 qt 1 l	18 oz 530 ml			
16	3.2 qt 3 l	2.7 qt 2.6 l	2.3 qt 2.2 l	2 qt 1.9 l	1.6 qt 1.5 l	1.3 qt 1.2 l	20 oz 590 ml			
18	3.6 qt 3.4 l	3 qt 2.8 l	2.6 qt 2.5 l	2.3 qt 2.2 l	1.8 qt 1.7 l	1.4 qt 1.3 l	23 oz 680 ml			
20	4 qt 3.8 l	3.3 qt 3.1 l	2.9 qt 2.7 l	2.5 qt 2.4 l	2 qt 1.9 l	1.6 qt 1.5 l	26 oz 770 ml			
25	5 qt 4.7 l	4.2 qt 4 l	3.6 qt 3.4 l	3.1 qt 2.9 l	2.5 qt 2.4 l	2 qt 1.9 l	1 qt 0.9 l			
30	6 qt 5.7 l	5 qt 4.7 l	4.3 qt 4.1 l	3.8 qt 3.6 l	3 qt 2.8 l	2.4 qt 2.3 l	1.2 qt 1.1 l			
35	7 qt 6.6 l	5.8 qt 5.5 l	5 qt 4.7 l	4.4 qt 4.2 l	3.5 qt 3.3 l	2.8 qt 2.6 l	1.4 qt 1.3 l			
40	8 qt 7.6 l	6.7 qt 6.3 l	5.7 qt 5.4 l	5 qt 4.7 l	4 qt 3.8 l	3.2 qt 3 l	1.6 qt 1.5 l			
45	9 qt 8.5 l	7.5 qt 7.1 l	6.4 qt 6.1 l	5.6 qt 5.7 l	4.5 qt 4.3 l	3.6 qt 3.4 l	1.8 qt 1.7 l			
50	10 qt 9.5 l	8.3 qt 7.9 l	7.1 qt 6.7 l	6.3 qt 5.7 l	5 qt 4.7 l	4 qt 3.8 l	2 qt 1.9 l			
55	11 qt 10 l	9.2 qt 8.7 l	7.9 qt 7.5 l	6.9 qt 6.6 l	5.5 qt 5.2 l	4.4 qt 4.2 l	2.2 qt 2.1 l			
60	12 qt 11 l	10 qt 9.5 l	8.6 qt 8.1 l	7.5 qt 7.6 l	6 qt 5.7 l	4.8 qt 4.5 l	2.4 qt 2.3 l			
65	13 qt 12 l	11 qt 10 l	9.3 qt 8.8 l	8.1 qt 7.6 l	6.5 qt 6.2 l	5.2 qt 4.9 l	2.6 qt 2.5 l			
70	14 qt 13 l	12 qt 11 l	10 qt 9.5 l	8.8 qt 8.5 l	7 qt 6.6 l	5.6 qt 5.3 l	2.8 qt 2.6 l			
80	16 qt 15 l	13 qt 12 l	11 qt 10 l	9.4 qt 9.5 l	8 qt 7.6 l	6.4 qt 6.1 l	3.2 qt 3 l			
90	18 qt 17 l	15 qt 14 l	13 qt 12 l	11 qt 10 l	9 qt 8.5 l	7.2 qt 6.8 l	3.6 qt 3.4 l			
100	20 qt 19 l	17 qt 16 l	14 qt 13 l	13 qt 12 l	10 qt 9.5 l	8 qt 7.6 l	4 qt 3.8 l			

TABLE 12-20: Fuel/Oil Mixture for 2-Cycle Engines—U.S.