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PORTLAND

LAT 38° 21' LONG 141° 37' TIME ZONE -1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

JANUARY - 2014

Time	m	Time	m	Time	m	Time	m
1	0053 1.14	9	0316 0.86	17	0124 1.11	25	0305 0.80
	0915 0.47		1022 0.27		0819 0.45		1023 0.30
WE	1030 0.47	TH	1731 0.70	FR	1248 0.66	SA	1837 0.73
●	1715 0.23		2121 0.62		1843 0.24		2109 0.71
2	0118 1.17	10	0311 0.82	18	0145 1.11	26	0206 0.79
	0918 0.49		1056 0.27		0826 0.43		1040 0.30
TH	1129 0.51	FR		SA	1317 0.70	SU	
	1754 0.19				1911 0.25		
3	0143 1.16	11	0224 0.80	19	0204 1.09	27	0030 0.86
	0920 0.51		1142 0.30		0840 0.40		1100 0.31
FR	1212 0.57	SA		SU	1346 0.73	MO	
	1829 0.18				1937 0.27		
4	0204 1.12	12	0028 0.84	20	0223 1.06	28	0032 0.96
	0902 0.51		1316 0.33		0858 0.38		1136 0.33
SA	1253 0.64	SU		MO	1415 0.75	TU	
	1901 0.20				2002 0.31		
5	0221 1.06	13	0011 0.92	21	0240 1.02	29	0049 1.04
	0900 0.48		1537 0.34		0915 0.35		1630 0.31
SU	1337 0.69	MO		TU	1445 0.76	WE	
	1932 0.25				2026 0.36		
6	0236 1.00	14	0020 0.99	22	0255 0.97	30	0104 1.08
	0912 0.42		0836 0.51		0933 0.33		0908 0.43
MO	1424 0.73	TU		WE	1520 0.76	TH	1148 0.45
	2002 0.33		1651 0.31		2050 0.43		1732 0.26
7	0252 0.95	15	0041 1.05	23	0308 0.92	31	0118 1.09
	0930 0.35		0814 0.49		0951 0.31		0850 0.46
TU	1515 0.74	WE		TH	1600 0.76	FR	1216 0.53
	2032 0.42		1735 0.28		2113 0.51	●	1816 0.23
8	0308 0.91	16	0102 1.09	24	0315 0.86		
	0954 0.30		0817 0.47		1008 0.30		
WE	1613 0.72	TH		FR	1654 0.74		
●	2100 0.52	○	1811 0.25	●	2130 0.61		

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Add one hour to the times when Daylight Saving Time is in force

PORTLAND

LAT 38° 21' LONG 141° 37' TIME ZONE -1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

FEBRUARY - 2014

Time	m	Time	m	Time	m	Time	m
1	0133 1.06	9	0234 0.80	17	0143 1.02	25	0038 0.84
	0835 0.46		1040 0.27		0808 0.34		1001 0.28
SA	1245 0.63	SU		MO	1343 0.82	TU	
	1854 0.22				1943 0.29		
2	0147 1.02	10	0119 0.81	18	0159 0.99	26	0032 0.92
	0819 0.43		1113 0.34		0823 0.31		0951 0.34
SU	1317 0.72	MO		TU	1409 0.86	WE	
	1926 0.25				2008 0.33		
3	0158 0.98	11	0028 0.86	19	0212 0.95	27	0045 0.97
	0825 0.36		1418 0.41		0838 0.28		0917 0.40
MO	1353 0.79	TU		WE	1437 0.88	TH	1311 0.45
	1955 0.30				2032 0.38		1700 0.38
4	0209 0.94	12	0026 0.92	20	0225 0.91	28	0055 0.98
	0839 0.28		0832 0.48		0852 0.25		0812 0.44
TU	1430 0.83	WE		TH	1506 0.88	FR	1215 0.54
	2021 0.36		1655 0.38		2056 0.44		1752 0.33
5	0224 0.92	13	0038 0.98	21	0236 0.87		
	0857 0.22		0757 0.46		0905 0.23		
WE	1512 0.84	TH		FR	1540 0.87		
	2044 0.44		1741 0.33		2116 0.52		
6	0240 0.89	14	0053 1.01	22	0242 0.82		
	0917 0.18		0753 0.44		0919 0.22		
TH	1556 0.82	FR		SA	1620 0.84		
	2105 0.52		1815 0.30		2130 0.61		
7	0250 0.86	15	0109 1.03	23	0230 0.79		
	0943 0.18		0749 0.41		0935 0.23		
FR	1647 0.78	SA		SU	1716 0.79		
●	2125 0.60	○	1847 0.28	●	2128 0.70		
8	0252 0.83	16	0126 1.03	24	0148 0.79		
	1010 0.21		0755 0.38		0951 0.24		
SA	1804 0.73	SU		MO			
	2133 0.68		1915 0.28				

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PORTLAND

LAT 38° 21' LONG 141° 37' TIME ZONE -1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

MARCH - 2014

Time	m	Time	m	Time	m	Time	m
1	0059 0.97	9	0232 0.81	17	0057 0.94	25	0120 0.78
	0751 0.44		0930 0.22		0714 0.35		0915 0.27
SA	1232 0.65	SU		MO	1308 0.89	TU	1806 0.78
●	1830 0.30		2142 0.66	○	1915 0.35		2028 0.77
2	0107 0.94	10	0224 0.78	18	0113 0.93	26	0023 0.81
	0731 0.41		0954 0.29		0727 0.31		0918 0.34
SU	1256 0.77	MO		TU	1332 0.96	WE	
	1903 0.30		2129 0.72		1944 0.37		
3	0115 0.91	11	0126 0.77	19	0127 0.90	27	0011 0.85
	0732 0.34		1010 0.38		0742 0.28		0858 0.42
MO	1322 0.86	TU		WE	1358 1.00	TH	
	1933 0.32				2010 0.40		
4	0123 0.89	12	0017 0.81	20	0138 0.87	28	0019 0.87
	0745 0.26		0934 0.46		0755 0.24		0730 0.48
TU	1351 0.93	WE		TH	1423 1.02	FR	1252 0.60
	2000 0.37				2035 0.45		1724 0.48
5	0136 0.88	13	0009 0.86	21	0149 0.84	29	0015 0.86
	0800 0.19		0742 0.49		0807 0.22		0656 0.47
WE	1423 0.96	TH		FR	1451 1.02	SA	1215 0.71
	2027 0.42		1700 0.48		2100 0.51		1804 0.43
6	0153 0.87	14	0015 0.90	22	0200 0.81	30	0017 0.84
	0818 0.15		0716 0.47		0820 0.20		0632 0.43
TH	1458 0.96	FR		SA	1521 0.99	SU	1228 0.83
	2049 0.48		1743 0.42		2121 0.58		1836 0.41
7	0211 0.86	15	0027 0.93	23	0205 0.79	31	0026 0.82
	0840 0.14		0705 0.44		0838 0.20		0634 0.36
FR	1534 0.93	SA		SU	1557 0.94	MO	1250 0.94
	2110 0.54		1816 0.38		2134 0.65	●	1905 0.41
8	0225 0.84	16	0041 0.94	24	0155 0.77		
	0904 0.17		0703 0.40		0858 0.22		
SA	1613 0.87	SU		MO	1639 0.87		
●	2128 0.60		1846 0.36	●	2132 0.72		

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PORTLAND

LAT 38° 21' LONG 141° 37' TIME ZONE -1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

APRIL - 2014

Time	m	Time	m	Time	m	Time	m
1	0034 0.81	9	0122 0.73	17	0048 0.82	25	0736 0.56
	0646 0.29		0928 0.45		0657 0.28		1417 0.67
TU	1315 1.02	WE		TH	1345 1.14	FR	1637 0.67
	1933 0.43	*	1914 0.77		2013 0.51		2248 0.76
2	0045 0.82	10	0836 0.53	18	0100 0.80	26	0543 0.56
	0703 0.22		2307 0.80		0710 0.25		1219 0.76
WE	1342 1.07	TH		FR	1411 1.16	SA	1746 0.61
	2000 0.47				2040 0.56		2302 0.75
3	0103 0.83	11	0640 0.54	19	0113 0.79	27	0519 0.50
	0721 0.18		1242 0.67		0725 0.23		1158 0.88
TH	1411 1.09	FR		SA	1439 1.14	SU	1820 0.57
	2026 0.50		2326 0.83		2106 0.61		2318 0.75
4	0125 0.84	12	0611 0.51	20	0125 0.78	28	0526 0.43
	0742 0.17		1211 0.76		0744 0.23		1215 0.99
FR	1442 1.08	SA		SU	1509 1.10	MO	1845 0.55
	2051 0.54		2344 0.85		2131 0.66		2332 0.75
5	0146 0.83	13	0602 0.47	21	0133 0.78	29	0544 0.35
	0805 0.18		1215 0.86		0807 0.25		1240 1.08
SA	1514 1.04	SU		MO	1542 1.03	TU	1909 0.55
	2116 0.58		1815 0.50		2156 0.70	●	2348 0.77
6	0203 0.82	14	0001 0.86	22	0130 0.77	30	0604 0.29
	0830 0.23		0612 0.42		0830 0.29		1305 1.15
SU	1546 0.98	MO		TU	1618 0.94	WE	1933 0.56
	2139 0.62		1845 0.47	●	2212 0.74		
7	0216 0.79	15	0019 0.85	23	0110 0.77		
	0856 0.29		0627 0.37		0851 0.37		
MO	1621 0.91	TU		WE	1703 0.85		

PORTLAND

LAT 38° 21' LONG 141° 37' TIME ZONE -1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

MAY - 2014

Time	m	Time	m	Time	m	Time	m
1	0011 0.79	9	0815 0.63	17	0021 0.76	25	0303 0.57
TH	0626 0.25	FR	1835 0.81	SA	0633 0.29	SU	1152 0.88
	1331 1.18			SA	1405 1.24		
	1959 0.57				2051 0.66		
2	0036 0.81	10	0441 0.62	18	0040 0.77	26	0350 0.50
FR	0648 0.24	SA	1237 0.77	SU	0655 0.27	MO	1141 0.99
	1400 1.19		1654 0.73		1434 1.21		1906 0.69
	2026 0.58		2138 0.78		2115 0.69		2121 0.71
3	0103 0.82	11	0443 0.57	19	0100 0.78	27	0427 0.43
SA	0713 0.24	SU	1154 0.87	MO	0720 0.29	TU	1203 1.09
	1429 1.17		1752 0.68		1502 1.16		1920 0.66
	2053 0.60		2236 0.78		2140 0.70		2224 0.72
4	0130 0.82	12	0458 0.51	20	0124 0.79	28	0500 0.38
SU	0739 0.27	MO	1158 0.97	TU	0749 0.33	WE	1230 1.16
	1459 1.13		1826 0.63		1530 1.08		1932 0.65
	2122 0.62		2309 0.78		2206 0.71		2308 0.75
5	0153 0.81	13	0516 0.46	21	0149 0.78	29	0531 0.34
MO	0806 0.32	TU	1216 1.07	WE	0819 0.40	TH	1258 1.21
	1530 1.08		1857 0.60		1600 1.00		1945 0.64
	2151 0.64		2333 0.77		2238 0.70		2345 0.77
6	0215 0.79	14	0536 0.40	22	0220 0.75	30	0601 0.32
TU	0832 0.39	WE	1242 1.16	TH	0847 0.50	FR	1325 1.24
	1600 1.02		1928 0.59		1627 0.92		2004 0.64
	2225 0.67		2351 0.76		2326 0.67		
7	0234 0.76	15	0556 0.36	23	0313 0.71	31	0021 0.80
WE	0856 0.46	TH	1308 1.22	FR	0903 0.61	SA	0630 0.31
	1630 0.95		1958 0.60		1644 0.84		1352 1.24
	2314 0.69						2028 0.64
8	0238 0.72	16	0006 0.75	24	0116 0.64		
TH	0909 0.55	FR	0615 0.32	SA	1440 0.79		
	1703 0.88		1336 1.25				
			2026 0.62				

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PORTLAND

LAT 38° 21' LONG 141° 37' TIME ZONE -1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

JUNE - 2014

Time	m	Time	m	Time	m	Time	m
1	0054 0.81	9	0230 0.59	17	0101 0.79	25	0330 0.44
SU	0659 0.33	MO	1141 0.93	TU	0715 0.35	WE	1200 1.10
	1419 1.22				1452 1.16		2008 0.70
	2054 0.64				2130 0.68		2105 0.70
2	0126 0.82	10	0329 0.54	18	0145 0.81	26	0431 0.41
MO	0727 0.36	TU	1145 1.03	WE	0747 0.40	TH	1227 1.17
	1447 1.19		1935 0.70		1513 1.10		2000 0.68
	2122 0.64		2104 0.70		2149 0.64		2247 0.72
3	0157 0.82	11	0410 0.49	19	0235 0.81	27	0516 0.39
TU	0755 0.40	WE	1208 1.13	TH	0821 0.48	FR	1254 1.21
	1515 1.14		1955 0.66		1533 1.03		2006 0.66
	2150 0.64		2213 0.69		2214 0.59		2342 0.75
4	0228 0.81	12	0445 0.43	20	0338 0.80	28	0555 0.37
WE	0822 0.46	TH	1235 1.21	FR	0854 0.59	SA	1320 1.23
	1540 1.09		2022 0.65		1550 0.97		2012 0.64
	2221 0.64		2254 0.69		2245 0.55		
5	0305 0.79	13	0515 0.38	21	0506 0.79	29	0023 0.79
TH	0848 0.53	FR	1305 1.27	SA	0923 0.70	SU	0629 0.37
	1603 1.03		2049 0.65		1533 0.91		1345 1.24
	2257 0.64		2324 0.70		2329 0.52		2026 0.63
6	0354 0.76	14	0545 0.34	22	0846 0.81	30	0059 0.82
FR	0911 0.61	SA	1334 1.28	SU	0923 0.81	MO	0700 0.38
	1625 0.96		2108 0.67		1512 0.88		1410 1.22
	2346 0.64		2353 0.72				2045 0.61
7	0535 0.74	15	0615 0.32	23	0036 0.49		
SA	0919 0.71	SU	1403 1.27	MO	1158 0.93		
	1637 0.90		2115 0.69				
8	0107 0.62	16	0025 0.76	24	0207 0.47		
SU	1448 0.84	MO	0644 0.32	TU	1138 1.02		
			1430 1.22				
			2117 0.70				

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LAT 38° 21' LONG 141° 37' TIME ZONE -1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

JULY - 2014

Time	m	Time	m	Time	m	Time	m
1	0131 0.84	9	0130 0.52	17	0205 0.86	25	0426 0.45
TU	0728 0.40	WE	1155 1.04	TH	0800 0.45	FR	1226 1.11
	1433 1.19				1443 1.06		1959 0.64
	2108 0.60				2115 0.51		2310 0.69
2	0204 0.85	10	0300 0.49	18	0254 0.88	26	0519 0.42
WE	0755 0.44	TH	1215 1.13	FR	0829 0.53	SA	1248 1.15
	1456 1.15				1459 1.01		1958 0.61
	2131 0.58				2136 0.45		2357 0.74
3	0238 0.85	11	0406 0.44	19	0347 0.87	27	0600 0.39
TH	0822 0.49	FR	1241 1.21	SA	0857 0.62	SU	1311 1.18
	1515 1.11				1512 0.97		1959 0.59
	2155 0.57				2201 0.41		
4	0316 0.84	12	0459 0.39	20	0454 0.86	28	0031 0.79
FR	0848 0.55	SA	1307 1.24	SU	0923 0.71	MO	0633 0.38
	1534 1.05		2104 0.63		1513 0.94		1331 1.18
	2220 0.56		2312 0.65		2234 0.40		2006 0.57
5	0402 0.83	13	0544 0.36	21	0638 0.84	29	0102 0.83
SA	0915 0.63	SU	1332 1.25	MO	0941 0.81	TU	0703 0.38
	1548 0.99		2108 0.65		1456 0.91		1352 1.17
	2247 0.55		2358 0.70		2317 0.41		2022 0.54
6	0509 0.81	14	0623 0.34	22	1255 0.92	30	0132 0.86
SU	0937 0.72	MO	1356 1.22	TU		WE	0731 0.40
	1553 0.93		2057 0.65				1412 1.14
	2318 0.54						2040 0.51
7	0715 0.83	15	0039 0.76	23	0029 0.45	31	0202 0.89
MO	0942 0.82	TU	0658 0.35	WE	1203 0.99	TH	0758 0.43
	1506 0.88		1415 1.17				1430 1.10
			2050 0.63				2059 0.49
8	0000 0.53	16	0121 0.82	24	0242 0.47		
TU	1159 0.94	WE	0730 0.39	TH	1206 1.05		
			1429 1.11				
			2100 0.58				

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PORTLAND

LAT 38° 21' LONG 141° 37' TIME ZONE -1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

AUGUST - 2014

Time	m	Time	m	Time	m	Time	m
1	0232 0.90	9	0400 0.45	17	0332 0.94	25	0005 0.75
FR	0822 0.48	SA	1245 1.14	SU	0854 0.61	MO	0602 0.40
	1445 1.06		2045 0.56		1433 0.94		1251 1.07
	2116 0.47		2329 0.57		2116 0.29		1921 0.51
2	0306 0.90	10	0513 0.40	18	0422 0.90	26	0032 0.82
SA	0847 0.54	SU	1301 1.16	MO	0915 0.69	TU	0634 0.38
	1459 1.01		2031 0.58		1438 0.91		1309 1.08
	2135 0.45		2359 0.65		2147 0.31		1930 0.48
3	0344 0.89	11	0600 0.36	19	0530 0.84	27	0059 0.88
SU	0911 0.61	MO	1318 1.14	TU	0931 0.76	WE	0703 0.37
	1510 0.96		2017 0.58		1431 0.88		1327 1.06
	2153 0.44				2221 0.36		1945 0.44
4	0430 0.87	12	0028 0.73	20	1326 0.87	28	0125 0.92
MO	0933 0.69	TU	0640 0.35	WE	2301 0.44	TH	0731 0.39
	1510 0.91		1333 1.10				1343 1.04
	2211 0.43		2003 0.56				2001 0.41
5	0546 0.85	13	0058 0.82	21	1213 0.91	29	0151 0.95
TU	0945 0.79	WE	0714 0.36	TH		FR	0757 0.42
	1432 0.87		1345 1.05				1357 1.00
	2230 0.44		2007 0.50				2016 0.39
6	1224 0.91	14	0131 0.89	22	0152 0.51	30	0218 0.97
WE	2255 0.45	TH	0745 0.41	FR	1205 0.97	SA	0821 0.47
			1353 1.01		2004 0.59		1410 0.96
			2017 0.43		2245 0.61		2030 0.36
7	1212 1.01	15	0209 0.94	23	0436 0.48	31	0247 0.97
TH	2332 0.47	FR	0811 0.47	SA	1216 1.02	SU	0845

PORTLAND

LAT 38° 21' LONG 141° 37' TIME ZONE -1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

SEPTEMBER - 2014

Time	m	Time	m	Time	m	Time	m
1	0319 0.96	9	0013 0.72	17	0435 0.86	25	0049 0.95
MO	0907 0.59		0613 0.38		0930 0.70		0701 0.39
	1430 0.88	TU	1249 0.98	WE	1410 0.81	TH	1255 0.93
	2100 0.34	○	1909 0.49		2132 0.35		1903 0.36
2	0357 0.93	10	0035 0.83	18	0554 0.79	26	0114 1.01
TU	0926 0.66		0647 0.37		0938 0.75		0730 0.41
	1426 0.84	WE	1300 0.94	TH	1315 0.79	FR	1309 0.90
☉	2116 0.34		1911 0.43		2155 0.44		1918 0.32
3	0447 0.88	11	0100 0.92	19	1151 0.82	27	0137 1.04
	0934 0.75		0718 0.39		2112 0.53		0756 0.43
WE	1349 0.83	TH	1305 0.91	FR		SA	1322 0.88
	2133 0.36		1920 0.35				1930 0.30
4	0700 0.83	12	0129 0.99	20	1139 0.86	28	0202 1.06
	0809 0.82		0746 0.43		1857 0.55		0821 0.47
TH	1221 0.87	FR	1315 0.89	SA	2348 0.63	SU	1333 0.85
	2145 0.39		1931 0.28				1943 0.28
5	1205 0.94	13	0200 1.02	21	0446 0.52	29	0229 1.05
	2131 0.44		0812 0.49		1149 0.90		0846 0.53
FR		SA	1330 0.89	SU	1840 0.52	MO	1345 0.82
			1946 0.23		2347 0.72		1957 0.26
6	1219 1.00	14	0234 1.02	22	0530 0.47	30	0258 1.03
			0835 0.54		1205 0.93		0910 0.58
SA	*	SU	1347 0.88	MO	1831 0.48	TU	1353 0.79
			2009 0.21				2015 0.26
7	0438 0.48	15	0311 0.99	23	0005 0.80		
	1232 1.02		0855 0.59		0603 0.43		
SU	1945 0.51	MO	1401 0.87	TU	1221 0.94		
*	2358 0.62		2035 0.22		1836 0.44		
8	0533 0.41	16	0350 0.94	24	0026 0.88		
	1240 1.01		0912 0.65		0633 0.40		
MO	1927 0.52	TU	1411 0.84	WE	1238 0.94		
		☉	2104 0.28		1848 0.40		

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PORTLAND

LAT 38° 21' LONG 141° 37' TIME ZONE -1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

OCTOBER - 2014

Time	m	Time	m	Time	m	Time	m
1	0331 0.98	9	0031 0.95	17	0438 0.83	25	0101 1.10
	0930 0.65		0653 0.42		1025 0.68		0731 0.45
WE	1346 0.77	TH	1216 0.78	FR	1315 0.69	SA	1234 0.77
	2033 0.28		1822 0.31		2102 0.47		1834 0.26
2	0411 0.91	10	0055 1.04	18	0609 0.75	26	0126 1.13
	0938 0.72		0720 0.44		1934 0.54		0800 0.47
TH	1309 0.76	FR	1224 0.78	SA		SU	1246 0.76
☉	2049 0.33		1835 0.24				1848 0.24
3	0514 0.82	11	0121 1.09	19	1018 0.75	27	0151 1.14
	0916 0.78		0746 0.48		1754 0.52		0827 0.51
FR	1151 0.79	SA	1239 0.79	SU		MO	1300 0.74
	2049 0.39		1849 0.19				1903 0.22
4	1139 0.84	12	0148 1.11	20	1058 0.78	28	0217 1.13
	2025 0.45		0812 0.51		1733 0.48		0854 0.55
SA		SU	1300 0.80	MO	2351 0.78	TU	1314 0.73
			1909 0.17	*			1921 0.22
5	1152 0.86	13	0218 1.09	21	0538 0.54	29	0245 1.08
	1859 0.49		0837 0.54		1122 0.79		0921 0.59
SU		MO	1321 0.80	TU	1736 0.44	WE	1325 0.72
			1934 0.18		2359 0.87		1943 0.23
6	0033 0.63	14	0251 1.05	22	0608 0.49	30	0316 1.02
	0508 0.51		0901 0.57		1143 0.80		0950 0.63
MO	1156 0.85	TU	1341 0.79	WE	1748 0.39	TH	1325 0.70
	1829 0.49		2002 0.22				2004 0.28
7	0000 0.73	15	0324 0.99	23	0016 0.96	31	0349 0.94
	0550 0.46		0926 0.60		0636 0.46		1024 0.67
TU	1200 0.83	WE	1357 0.77	TH	1201 0.80	FR	1300 0.69
	1811 0.45		2030 0.29		1803 0.34	☉	2022 0.34
8	0010 0.85	16	0359 0.91	24	0038 1.04		
	0624 0.43		0951 0.64		0703 0.44		
WE	1209 0.80	TH	1405 0.73	FR	1219 0.79		
○	1812 0.38	☉	2053 0.37		1819 0.30		

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PORTLAND

LAT 38° 21' LONG 141° 37' TIME ZONE -1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

NOVEMBER - 2014

Time	m	Time	m	Time	m	Time	m
1	0427 0.84	9	0115 1.15	17	0430 0.74	25	0148 1.19
	2016 0.43		0750 0.51		1603 0.53		0843 0.53
SA		SU	1213 0.71	MO		TU	1234 0.66
			1820 0.16				1839 0.19
2	0519 0.74	10	0141 1.15	18	0032 0.73	26	0215 1.16
	1852 0.51		0815 0.52		1619 0.48		0907 0.55
SU		MO	1242 0.73	TU	2352 0.82	WE	1257 0.66
			1845 0.17	*			1902 0.20
3	0214 0.66	11	0209 1.13	19	0619 0.61	27	0242 1.11
	0450 0.65		0841 0.53		1010 0.67		0931 0.57
MO	1022 0.69	TU	1310 0.73	WE	1638 0.42	TH	1320 0.67
	1722 0.50		1913 0.20		2351 0.92		1929 0.24
4	0015 0.73	12	0238 1.09	20	0638 0.56	28	0308 1.04
	1701 0.45		0909 0.54		1051 0.66		0957 0.58
TU	* 2351 0.84	WE	1337 0.73	TH	1658 0.37	FR	1346 0.66
			1942 0.25				1956 0.30
5	0622 0.52	13	0308 1.03	21	0007 1.01	29	0334 0.95
	1102 0.66		0939 0.55		0700 0.52		1025 0.57
WE	1706 0.38	TH	1403 0.70	FR	1119 0.66	SA	1417 0.64
			2009 0.32		1718 0.32	☉	2019 0.39
6	0002 0.95	14	0336 0.97	22	0030 1.09	30	0357 0.87
	0648 0.50		1013 0.57		0725 0.50		1101 0.55
TH	1115 0.66	FR	1428 0.67	SA	1141 0.65	SU	1505 0.60
	1721 0.30		2032 0.40	●	1739 0.27		2028 0.50
7	0024 1.05	15	0402 0.89	23	0054 1.15		
	0709 0.49		1057 0.58		0750 0.50		
FR	1129 0.66	SA	1449 0.63	SU	1159 0.65		
○	1740 0.24	☉	2043 0.49		1759 0.23		
8	0049 1.11	16	0425 0.82	24	0121 1.18		
	0729 0.50		1904 0.56		0816 0.51		
SA	1147 0.68	SU		MO	1215 0.65		
	1759 0.19				1818 0.21		

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PORTLAND

LAT 38° 21' LONG 141° 37' TIME ZONE -1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

DECEMBER - 2014

Time	m	Time	m	Time	m	Time	m
1	0404 0.78	9	0138 1.16	17	0240 0.76	25	0215 1.14
	1205 0.52		0822 0.51		1335 0.46		0914 0.52
MO		TU	1241 0.68	WE		TH	1303 0.64
			1840 0.20				1905 0.21
2	0245 0.73	10	0204 1.14	18	0009 0.82	26	0237 1.09
	1413 0.47		0845 0.50		1459 0.42		0923 0.51
TU		WE	1316 0.69	TH	2356 0.92	FR	1341 0.66
			1909 0.23				1933 0.26
3	0013 0.79	11	0230 1.11	19	1553 0.37	27	0255 1.02
	1520 0.40		0910 0.49				0939 0.48
WE	2352 0.89	TH	1350 0.70	FR		SA	1425 0.68
			1937 0.27				2003 0.33
4	1602 0.33	12	0257 1.06	20	0007 1.01	28	0313 0.95
			0937 0.48		0805 0.53		0958 0.43
TH		FR	1425 0.69	SA	0956 0.54	SU	1516 0.68
			2004 0.33		1634 0.32		2031 0.43
5	0000 0.99	13	0320 1.00	21	0030 1.10	29	0327 0.88
	0745 0.54		1005 0.48		0820 0.50		1019 0.39
FR	0942 0.56	SA	1501 0.67	SU	1101 0.54	MO	1622 0.66
	1638 0.27		2030 0.41		1709 0.27	☉	2056 0.53
6	0022 1.07	14	0340 0.94	22	0055 1.16	30	0328 0.82
	0755 0.53		1035 0.48		0840 0.49		1046 0.35
SA	1042 0.58	SU	1547 0.64	MO	1135 0.55	TU	1829 0.66
○	1711 0.22	☉	2050 0.49	●	1740 0.23		2050 0.65
7	0047 1.13	15	0355 0.87	23	0122 1.18	31	0259 0.79
	0802 0.53		111				