

OCTOBER—XXXI DAYS.

PHASES OF THE MOON.			
D. H. M.		D. H. M.	
Full Moon	2 7 29 p.m.	New Moon	16 10 32 a.m.
Last Quarter	9 5 44 p.m.	First Quarter	23 9 13 p.m.
		Full Moon	31 10 36 p.m.
Perigee, 13d. 10h. p.m.		Apogee, 25d. 5h. p.m.	

DAYS.	REMARKABLE DAYS.	SUN'S AP- ARENT DE- CLINATION.		EQUATION OF TIME.		MOON'S AGE AT NOON.	MOON'S MERIDIAN PASSAGE.		MEAN TIME CORRECTED.		DAYS.
		Subt.	From	Subt.	From		Mean	Sun	Sun		
1	Th	Battle of San Sebastian, 1836	s 3 12 44	10 19-89	14	11 42p.m.	5 40	6 2	1		
2	F	Quarterly Licensing Meeting	3 36 3	10 38-69	15		5 38	6 3	2		
3	Sat	Sir G. Grey installed Governor, 1861	3 59 16	10 56-97	16	0 27a.m.	5 36	6 4	3		
4	S	Seventeenth Sunday after Trinity.	4 22 29	11 15-53	17	1 11	5 34	6 5	4		
5	M	Sultan dec. war with Russia, 1853	4 45 39	11 33-65	18	1 59	5 32	6 6	5		
6	T	Marquis Cornwallis died, 1805	5 8 47	11 51-69	19	2 48	5 30	6 7	6		
7	W	British Army entered France, 1813	5 31 49	12 8-53	20	3 40	5 28	6 8	7		
8	Th	Cook landed in New Zealand, 1769	5 54 43	12 25-38	21	4 35	5 26	6 9	8		
9	F	Congreve Rockets effectually used, 1806	6 17 37	12 41-96	22	5 30	5 25	6 10	9		
10	Sat		6 40 29	12 57-66	23	6 28	5 23	6 11	10		
11	S	Eighteenth Sunday after Trinity.	7 3 9	13 13-27	24	7 24	5 21	6 12	11		
12	M	Pekin taken by Eng. and Fr., 1860	7 25 45	13 27-91	25	8 21	5 20	6 13	12		
13	T	Napoleon landed at St. Helena, 1815	7 48 17	13 42-53	26	9 16	5 18	6 15	13		
14	W	Battle of Jena, 1806	8 12 42	13 56-10	27	10 10	5 16	6 16	14		
15	Th	Garibaldi resigned Dictatorship, 1860	8 33 1	14 9-56	28	11 3	5 14	6 17	15		
16	F	Battle of Leipsic, 1813	8 55 10	14 22-0	0	11 55	5 12	6 18	16		
17	Sat	Siege of Sebastopol began, 1854	9 17 15	14 34-03	1	0 48p.m.	5 10	6 20	17		
18	S	Nineteenth Sunday after Trinity.	9 39 7	14 46-05	2	1 41	5 9	6 21	18		
19	M	Kirke White died, 1806	10 0 55	14 57-19	3	2 33	5 8	6 22	19		
20	T	Battle of Navarino, 1827	10 22 30	15 6-71	4	3 24	5 6	6 24	20		
21	W	Battle of Trafalgar, 1805	10 44 4	15 17-09	5	4 16	5 4	6 25	21		
22	Th	Allied Fleet entered Bosphorus, 1853	11 5 20	15 25-82	6	5 6	5 2	6 26	22		
23	F	First Parlmt. of Grt. Britain, 1707	11 26 27	15 34-39	7	5 54	5 1	6 27	23		
24	Sat	Peace with China signed, 1860	11 47 32	15 42-22	8	6 41	5 0	6 28	24		
25	S	Twentieth Sunday after Trinity.	12 8 17	15 48-90	9	7 27	4 58	6 30	25		
26	M	Royal Charter wrecked, 1859	12 28 49	15 55-33	10	8 11	4 57	6 32	26		
27	T		12 49 21	16 1-09	11	8 54	4 55	6 33	27		
28	W	St. Simon and St. Jude	13 9 33	16 5-61	12	9 38	4 53	6 34	28		
29	Th	Royal Exchange opened, 1844	13 29 35	16 9-88	13	10 22	4 51	6 36	29		
30	F	Formation of Whitaker Ministry, 1863	13 49 22	16 13-33	14	11 7	4 50	6 38	30		
31	Sat	All Hallow's Eve	14 8 54	16 15-99	15	11 54	4 48	6 40	31		

PHENOMENA FOR THE MONTH.

OCTOBER.—2nd, 6h. 35m. a.m., Jupiter in conjunction with the Moon—Jupiter, 2 deg. 3 min. north; 2nd, 2h. 32m. p.m., Jupiter in opposition to the Sun; 9th, 8h. 32m. p.m., Uranus in conjunction with the Moon—Uranus 3 deg. 30 min. north; 10th, 10h. 10m. p.m., Uranus in quadrature with the Sun; 11th, 2h. 35m. a.m., Mars in conjunction with the Moon—Mars 2 deg. 58 min. north; 13th, 1h. 53m. a.m., Venus in conjunction with the Moon—Venus 0 deg. 57 min. south; 13th, 6h. 16m. p.m., Mercury at greatest elongation, 24 deg. 45 min. east; 13th, 6h. 59m. p.m., Venus in ascending node; 18th, 2h. 26m. a.m., Mercury in conjunction with the Moon—Mercury 8 deg. 28 min. south; 18th, 8h. 43m. a.m., Mercury greatest heliacal latitude south; 19th, 7h. 15m. a.m., Saturn in conjunction with the Moon—Saturn 3 deg. 25 min. south; 23rd, 5h. 17m. p.m., Uranus stationary; 25th, 7h. 48m. p.m., Mercury stationary; 29th, 7h. 44m. a.m., Jupiter in conjunction with the Moon—Jupiter 1 deg. 56min. north.

FARMING OPERATIONS.

Finish all seedings hitherto spoken of. Shut up fields intended to be mown up for hay. Plough and carefully till, in dry weather, the lands intended for root and cabbage crops. For carrots, very deep and very fine tillage is necessary. Carrot seed requires much manipulation before sowing; mix with fine earth and turn over and slightly moisten every day for three weeks; three to four lbs. per acre is sufficient.

NOVEMBER—XXX DAYS.

PHASES OF THE MOON.			
D. H. M.		D. H. M.	
Last Quarter	8 1 17 a.m.	First Quarter	22 6 17 p.m.
New Moon	14 10 26 p.m.	Full Moon	30 0 31 p.m.
Perigee, 10d. 1h. a.m.		Apogee, 22d. 1h. p.m.	

DAYS.	REMARKABLE DAYS.	SUN'S AP- ARENT DE- CLINATION.		EQUATION OF TIME.		MOON'S AGE AT NOON.	MOON'S MERIDIAN PASSAGE.		MEAN TIME CORRECTED.		DAYS.
		Subt.	From	Subt.	From		Mean	Sun	Sun		
1	S	Twenty-first Sunday after Trinity.	s14 28 7	16 17-41	16		4 47	6 41	1		
2	M	Great Eastern launched, 1857	14 47 21	16 18-52	17	0 43a.m.	4 46	6 43	2		
3	T	Siege of Acre, 1840	15 6 10	16 18-96	18	1 35	4 45	6 44	3		
4	W	Battle of Warsaw, 1794	15 24 46	16 18-26	19	2 29	4 44	6 45	4		
5	Th	Battle of Inkermann, 1854	15 43 19	16 16-87	20	3 25	4 43	6 46	5		
6	F	Princess Charlotte died, 1817	16 1 20	16 14-58	21	4 23	4 41	6 47	6		
7	Sat	Victor Emanuel entd. Naples, 1860	16 18 8	16 11-44	22	5 20	4 40	6 49	7		
8	S	Twenty-second Sunday after Trinity.	16 36 47	16 6-98	23	6 15	4 38	6 50	8		
9	M	Birth of Prince of Wales	16 54 4	16 2-65	24	7 9	4 37	6 51	9		
10	T	Martin Luther born, 1443	17 11 5	15 56-47	25	8 2	4 36	6 53	10		
11	W	Treaty of Villa Franca, 1859	17 27 48	15 49-87	26	8 54	4 35	6 54	11		
12	Th	Battle of Dumbane, 1715	17 44 15	15 42-41	27	9 45	4 34	6 56	12		
13	F	Battle of Sheriff Muir, 1715	18 0 11	15 34-15	28	10 36	4 33	6 57	13		
14	Sat	Governor Grey arrived, 1845	18 16 0	15 24-52	0	11 28	4 32	6 58	14		
15	S	Twenty-third Sunday after Trinity.	18 31 34	15 15-04	1	0 20p.m.	4 31	6 59	15		
16	M	Insurrection in Rome, 1848	18 46 38	15 3-73	2	1 14	4 30	7 0	16		
17	T	Battle of Lutzen, 1802	19 1 37	14 52-08	3	2 5	4 29	7 1	17		
18	W	Wellington's Funeral, 1853	19 15 54	14 39-56	4	2 56	4 28	7 2	18		
19	Th	Wreck of the Colombo, 1862	19 30 8	14 26-24	5	3 46	4 27	7 3	19		
20	F	Peace of Paris, 1815	19 43 52	14 12-17	6	4 34	4 26	7 4	20		
21	Sat	Princess Royal born, 1840	19 57 16	13 56-81	7	5 20	4 25	7 6	21		
22	S	Twenty-fourth Sunday after Trinity	20 10 25	13 41-18	8	6 5	4 24	7 7	22		
23	M	Weld Ministry formed, 1864	20 23 3	13 24-74	9	6 48	4 23	7 9	23		
24	T	Siege of Porto Bello, 1739	20 35 21	13 7-54	10	7 31	4 23	7 10	24		
25	W	Havelock died, 1857	20 47 11	12 49-15	11	8 15	4 22	7 11	25		
26	Th	Kars taken, 1855	20 58 38	12 30-53	12	9 0	4 22	7 12	26		
27	F	Pacific Ocean discovered, 1519	21 9 52	12 11-20	13	9 45	4 22	7 13	27		
28	Sat	Ballarar Riots, 1854	21 20 33	11 50-66	14	10 34	4 21	7 14	28		
29	S	First Sunday in Advent.	21 30 50	11 29-89	15	11 25	4 21	7 15	29		
30	M	St. Andrew's Day	21 40 58	11 8-44	16		4 0	7 16	30		

PHENOMENA FOR THE MONTH.

NOVEMBER.—4th, transit of Mercury over the disc of the Sun (see Eclipses); 5th, 6h. 20m. p.m., Mercury in inferior conjunction with the Sun; 6th, 1h. 51m. a.m., Uranus in conjunction with the Moon—Uranus, 3 deg. 17 min. north; 6th, 8h. 43m. a.m., Mercury in ascending node; 8th, 8h. 36m. a.m., Mars in conjunction with the Moon—Mars 2 deg. 5 min. north; 10th, 10h. 34m. p.m., Mercury in Perihelion; 11th, 4h. 38m. p.m., Venus in conjunction with the Moon—Venus 2 deg. 1 min. south; 13th, 4h. 23m. p.m., Mercury in conjunction with the Moon—Mercury 2 deg. 59 min. south; 14th, 6h. 40m. a.m., Mars in quadrature with the Sun; 14th, 3h. 10m. p.m., Mercury stationary; 15th, 10h. 27m. p.m., Saturn in conjunction with the Moon—Saturn 3 deg. 17 min. south; 16th, 10h. 29m. a.m., Venus in Perihelion; 17th, 11h. 31m. a.m., Jupiter in Perihelion; 21st, 6h. 27m. a.m., Mercury greatest heliocentric latitude north; 22nd, 9h. 54m. a.m., Mercury greatest elongation, 19 deg. 42 min. west; 25th, 1h. p.m., Jupiter in conjunction with the Moon—Jupiter 2 deg. 9 min. north; 30th, 5h. 13m. a.m., Jupiter stationary; 30th, 1h. 44m. p.m., Saturn in conjunction with the sun.

FARMING OPERATIONS.

Parsnips require about the same cultivation as carrots. Both these crops must be carefully hoed and weeded at least twice over. Care is required in the sowing to spread the seed evenly over the land. Mangewurzel should be sown in the past or early in the present month. The best plan is to draw out furrows in the deeply and thoroughly tilled land, about twenty-seven inches apart from each other, with a double-breasted plough; spread manure in the furrows, close the earth over them with the plough, and dibble or drill in the seed, from three to four pounds per acre. Horse-hoeing between the ridges, and hand-hoeing and weeding on the ridges must be done to get a crop. Sow swede turnips and plant cow cabbages and potatoes.