



GRIER'S SOUTHERN

# ALMANAC

FOR THE STATES OF

SOUTH CAROLINA,  
MISSISSIPPI,  
GEORGIA,



ALABAMA,  
LOUISIANA,  
TENNESSEE

FOR THE YEAR OF OUR LORD

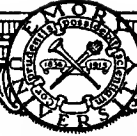
# 1863

Being the Third after Bissextile or Leap-Year, and the Third  
of Southern Independence, and (until 4th. of July,)  
the Eighty-seventh of the Independence of  
the United States.

Calculated for the Latitude and Meridian of AUGUSTA, GA.,  
AND WILL SERVE FOR THE ADJACENT STATES,  
By T. P. ACHMORE, OF AMERICUS, GA.

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CONFEDERATE  
COLLECTION**

**ECLIPSES FOR 1863.**

The first will be of the Sun, on the 17th of May, at 11h. 15m. A. M., invisible in America.

The second will be a total Eclipse of the Moon, on the 1st day of June, partially visible, and is calculated to apparent time, as follows :

	DAY.	H'R.	MIN.	SEC.	
The Eclipse begins on June	-	1,	4	17	38.
Beginning of total darkness	"	"	5	24	36.
End of total darkness	"	"	6	31	18.
The Moon will rise at Augusta	"	"	7	1	0,
with 7 2-10 digits eclipsed on her Western limb.					
The Eclipse will end	"	"	7	33	16.
Duration of visibility	"	"	0	37	16.

} P. M.

The third will be of the Sun, on the 11th of Nov., at 2h. 36m. A. M., invisible in America.

The fourth will be of the Moon, on the 25th day of November, visible and nearly total throughout the continent of America, and is calculated to apparent time, as follows :

	DAY.	H'R.	MIN.	SEC.	
Beginning at Augusta, Ga.,	Nov. 25	1	57	14.	
Middle of Eclipse	"	3	37	53.	
Ecliptic Opposition	"	3	43	21.	
End of Eclipse	"	5	18	32.	
Duration	"	3	21	18.	

} A. M.

Digits eclipsed 11 1 2. on the Moon's north limb.

At the greatest obscuration, about 1-24 part of the Moon's diameter will remain uneclipsed.

**EQUINOXES AND SOLSTICES.**

Vernal Equinox, ....	(Spring begins) .....	March	21st.
Summer Solstice, ..	(Summer begins) .....	June	21st.
Autumnal Equinox.	(Autumn begins).....	Sept.	23d.
Winter Solstice, ..	(Winter begins).....	Dec.	21st.

**ASPECTS OF THE PLANETS.**

The Planet Venus will be Evening Star till September 29th, then Morning Star till the end of the year.

Jupiter will be in opposition with the Sun, on the 12th of April, when he will shine with his greatest brilliancy.

Saturn will be in opposition with the Sun, on the 20th of March, when he will be brightest.

Mars will be too near the Sun to afford any favorable opportunity of viewing him this year.

**THE TWELVE SIGNS OF THE ZODIAC.**

Spring Signs,.....	1. ♋ Pisces.	2. ♈ Aries.	3. ♉ Taurus
Summer Signs,.....	4. ♊ Gemini.	5. ♋ Cancer.	6. ♌ Leo.
Autumn Signs,.....	7. ♍ Virgo.	8. ♎ Libra.	9. ♏ Scerpio.
Winter Signs, .....	10. ♐ Sagitt'us	11. ♑ Capri'us.	12. ♒ Aquarius.

The first six are called Northern Signs, and the other six Southern Signs.

**TABLE OF THE PRINCIPAL BODIES IN THE SOLAR SYSTEM.**

NAMES.	Mean	Mean	Revolu-	Revolu-	Veloci-	Dis- the	Dist.	Light,
	Diamete- ter.	Distance from the Sun.	tion ar'd the Sun.	tion on Axis	ty per m. in orbit.	Earth being 1.	Earth being 1	Earth being 1
	Miles.	Miles.	yrs. days	d. h. M.	Miles.			
THE SUN.	883,246	.....	.....	25 9 59	.....	1,412,921,101	0.252	Infia-
Mercury..	3,224	48,814,000	.....	88 1 0 5	1,327	0.655	1.129	0.650
Venus ....	7,687	68,787,000	.....	224 .. 23 21	1,338	0.909	0.923	1.911
The Earth	7,912	86,103,000	1 .....	36 56	1,138	1,000	1.000	1.000
The Moon	2,180	86,103,000	1 .....	27 7 43	83	0.920	0.615	1.000
Mars .....	4,189	144,908,000	1 321	1 0 27	921	0.126	0.843	0.431
Jupiter ...	80,170	494,797,000	11 216	.. 9 50	496	1,456,000	0.338	0.327
Saturn ...	79,042	907,163,000	29 167	.. 19 29	363	771,000	0.138	0.911
Uranus ...	35,112	1,824,290,000	84	0 1 13 23	250	89,000	0.342	0.606
Neptune..	41,500	2,854,099,000	164	226 .. .. .	308	142,000	0.146	0.091

NOTE.—There are more than fifty small Planets or Asteroids, between the orbit of Mars and Jupiter.

**MEAN AND APPARENT TIME.**

MEAN TIME is the time indicated by a well-regulated clock or watch running without variation, so as to make the day, or 24 hours, equal to the Mean Time at which the Sun comes to the meridian during the year. Apparent Time is the time which makes the Sun come to the meridian every day at 12 o'clock. On account of the ellipticity of the earth's orbit, and its inclination to the equator, the sun does not always come to the meridian in exactly the same time; and hence, Apparent Time is irregular, and either gradually falls behind Mean Time, or gains on it, sometimes to the amount of more than sixteen minutes. When the Sun comes to the meridian earlier than the Mean Time, it is said to be fast: but when it comes to it later, it is said to be slow; and the amount by which Apparent Time differs from Mean Time is called the Equation of Time. In order to set a timepiece according to Mean Time, it is necessary to have a dial, or noon mark; and allowance must be made for the Equation of Time. This Almanac is in Mean Time.

**EXPLANATION OF THE SIGNS USED IN THIS ALMANAC.**

☉ New Moon, and Moon generally, ☽ First Quarter, ☾ Full Moon, ♁ Last Quarter, ☾ Moon's ascending node, or dragon's head, ☿ Moon's descending node, or dragon's tail. IN APOHEE—Moon farthest from the Earth. IN PERIGEE—Moon nearest the earth. ☀ Highest—Moon farthest North. ☁ Lowest—Moon farthest South. ♄ Saturn. ♀ Venus ♁ near together. ♃ Jupiter. ☿ Mercury ☐ 90 deg. apart. ☽ Opposition or 180 degrees apart ♃ Mars. 7\* Stars. ☼ Sun. ♃ Herschel.

Complete Court Calendars, &c. for the States of Alabama and Tennessee, will be inserted in orders of 10 gross and upwards from dealers ordering for circulation in those states respectively.

NOTE. Any person solving ten of the Problems contained in this Almanac, and sending to me at Americus, Ga., by the 15th of May next, the correct answers to the same, shall have the same acknowledged in the Almanac for 1864.

A few original problems for 1864, are solicited. They must be thoroughly solved and explained, in order to meet with attention

T. P. ACHMORE.

1st Month,]

JANUARY, 1863.

[31 Days

## MOON'S PHASES.

	D.	H.	M.
Full Moon,	4	9	46 eve.
Last Quarter	12	1	43 eve.
New Moon,	19	9	54 mo.
First Quarter,	26	3	45 eve.

## PROBLEMS.

1. What must be the diameter of a balloon, in order that it may ascend with four persons, weighing each 160 pounds, and the balloon and bag of sand weighing 60 pounds.

D. of M.	D of W	Various Phenomena.	Sun rises	Sun sets	MOON'S PLACE.	Moon ri & sts		High tide Savannah	
			H. M.	H. M.		H. M.	H. M.		
1	Thur	New Year's Day. <i>Cold</i>	7 4	4 56	♏	4 5	5 55		
2	Frid	☼ in Perigee <i>and</i>	7 3	4 57		5 0	7 10		
3	Satur	☾ highest <i>chilly weather</i>	7 3	4 57	♌	5 50	8 8		
4	S.	Princeton Battle, 1777.	7 3	4 57		rises.	9 0		
5	Mon	<i>Cloudy and</i>	7 2	4 58	♍	6 15	9 45		
6	Tues	Epiphany. <i>cold.</i>	7 2	4 58		7 8	10 26		
7	Wed		7 2	4 58	♎	8 20	11 2		
8	Thur	Bat. N. Orleans, 1815,	7 1	4 59		9 13	11 38		
9	Frid	<i>Fair and frosty.</i>	7 1	4 59		10 18	E. 14		
10	Satur	Aldebaran sou 9h 8m.	7 0	5 0	♐	11 25	0 47		
11	S.	Ala. & Fla. seced., '61.	7 0	5 0		morn	1 24		
12	Mon	<i>Now more pleasant.</i>	6 5	5 1	♑	0 30	2 2		
13	Tues	Richard II. killed, 1490.	6 5	5 1		1 40	2 46		
14	Wed	<i>N. E. Winds</i>	6 5	5 2	♒	2 50	3 47		
15	Thur	<i>and any</i>	6 5	5 2		3 46	5 0		
16	Frid	☽ lowest <i>ark</i>	6 5	5 2	♓	4 46	6 21		
17	Satur	Bat. Cowpens, 178	6 5	5 2		5 30	7 30		
18	S.	<i>flying clouds.</i>	6 5	5 4		6 31	8 16		
19	Mon	Capella sou. 9h. 11m.	6 5	5 5	♈	sets.	9 2		
20	Tues	☼ enters. ♍ Geo sec '61,	6 5	5 5		6 30	9 45		
21	Wed	<i>High winds from</i>	6 5	5 6	♉	7 24	10 25		
22	Thur	Rigel sou. 8h. 48m.	6 5	5 6		8 25	11 5		
23	Frid	<i>N. W. and cold.</i>	6 5	5 7		9 21	11 45		
24	Satur	Augusta arsenal tak '61	6 5	5 8	♊	10 10	Mern.		
25	S.	<i>Cold and</i>	6 5	5 9		11 8	0 28		
26	Mon	Sirius sou. 10h. 16m.	6 5	5 9	♋	morn.	1 12		
27	Tues	<i>Cloudy.</i>	6 5	5 10		0 7	1 59		
28	Wed	<i>Perhaps snow</i>	6 4	5 11	♌	1 8	2 57		
29	Thur	Prof F. C. Bond died 59.	6 4	5 12		2 2	4 9		
30	Frid	☽ highest.	6 4	5 12	♍	2 56	5 34		
31	Satur	<i>pr sleet.</i>	6 4	5 13		3 06	5 8		

MOON'S PHASES.

	D.	H.	M.
Full Moon	3	4	39 eve.
Last Quarter	11	1	51 mo.
New Moon	17	9	30 eve.
First Quarter	25	9	16 mo.

2. If the mercury in a barometer, at the bottom of a tower, be observed to stand at 30 inches, and, on being carried to the top of it, be observed 29.9 inches; what is the height of the tower?

3. Suppose a piece of marble contains 8 cubic feet, and weighs 1,353½ lbs.; what is the specific gravity?

D.	D. of M.	Various Phenomena.	Sun rises H. M.	Sun sets H. M.	MOON'S PLACE.	Moon ri. H. M.	High tide Savannah M.
1	S.	Septuagesima S.	6 46	5 14	Ω	4 20	8 1
2	Mon.	Purification B. V. Mary.	6 45	5 15		5 15	8 49
3	Tue.	<i>Fair and frosty.</i>	6 44	5 16	☾	5 47	9 32
4	Wed.	[1780]	6 44	5 16		rises.	10 9
5	Thu.	Earthquake at Sicily,	6 43	5 17	♄	8 30	10 43
6	Fri.	<i>Damp and</i>	6 42	5 18		9 14	11 14
7	Satu.	Sirius sou. 9h. 25m.	6 41	5 19	♃	10 25	11 46
8	S.	<i>cloudy weather.</i>	6 40	5 20		11 0	E. 15
9	Men.		6 39	5 21	♁	11 30	0 44
10	Tue.	Pro. Gov. Con. Stat. '61.	6 38	5 22		11 59	1 25
11	Wed.	Revolution in Domingo.	6 37	5 23		morn.	2 4
12	Thu.	☾ lowest. [1807.	6 36	5 24	♃	0 36	2 3
13	Fri.	<i>Wind and</i>	6 36	5 24		1 48	4 8
14	Sat.	Valentines <i>cold.</i>	6 35	5 25	♁	2 43	5 29
15	S.	Quiquag. Sun.	6 34	5 26		3 36	6 47
16	Men.	Melancthen born, 1497.	6 33	5 27		4 50	7 52
17	Tue.	Sirius souths 8h. 50m.	6 32	5 28	♃	sets.	8 37
18	Wed.	Ash Wednesday.	6 31	5 29		7 30	9 22
19	Thu.	Sun enters ♋	6 30	5 30	♃	8 41	10 2
20	Fri.	<i>Much cloudy.</i>	6 29	5 31		9 39	10 44
21	Sat.	<i>weather and</i>	6 28	5 32		10 25	11 27
22	S.	Washington born, 1732.	6 27	5 33	♁	10 49	morn.
23	Men.	<i>some rais.</i>	6 26	5 34		11 20	0 16
24	Tue.	St. Mathias.	6 25	5 35	♄	11 58	0 54
25	Wed.	<i>Now more pleasant.</i>	6 24	5 36		morn.	1 41
26	Thu.	☾ highest.	6 23	5 37	♃	0 56	2 36
27	Frid.	Procyon south 9h. 3m.	6 22	5 38		1 47	3 49
28	Satu.	<i>at the end of this month.</i>	6 21	5 39	Ω	2 36	5 16

## MOON'S PHASES.

	D.	H.	M.
Full Moon	5	9	21 mo
Last Quarter	12	0	15 eve
New Moon	19	9	17 mo
First Quarter	27	3	14 mo

4. The diameter of a balloon is 2,665 feet, what weight is it capable of raising?

5. What is the solidity in inches of several fragments or clear glass, whose weight is 13 ounces?

D. of M	D of W	Various Phenomena.	Sun rises	Sun sets	MOON'S PLACE.	Moon ri. & sts		High tide Savan'ah
			H. M.	H. M.		H.	M.	H. M.
1	S.	St. David.	6 20	5 40		3	35	6 40
2	Mon	Procyon Sou. 9 h. 48 m.	6 19	5 41	♈	4	6	7 43
3	Tues	<i>Fair and frosty.</i>	6 18	5 42		4	44	8 29
4	Wed	Pollux Sou. 8 h. 44 m.	6 17	5 43	♉	5	19	9 10
5	Thur	La Place died, 1827.	6 16	5 44		rises.		9 43
6	Frid	<i>Cloudy and damp.</i>	6 15	5 45	♊	7	7	10 17
7	Satur	Regulus Sou. 10 h. 56 m.	6 14	5 46		8	0	10 46
8	S.	<i>Cold winds.</i>	6 13	5 47		8	53	11 17
9	Mon	Regulus Sou. 10 h. 48 m.	6 12	5 48	♋	9	45	11 48
10	Tues	<i>from the N. W.</i>	6 11	5 49		10	37	Ev. 18
11	Wed	♁ lowest.	6 10	5 50	♌	11	29	0 59
12	Thur		6 9	5 51		morn.		1 30
13	Frid	♃ discovered 1781.	6 8	5 52	♍	0	20	2 19
14	Satur	<i>More mild.</i>	6 7	5 53		1	10	3 24
15	S	Jackson born, 1767.	6 6	5 54		1	57	4 51
16	Mon	Regulus sou. 10 h. 21 m.	6 5	5 55	♎	2	43	6 11
17	Tues	St. Patrick.	6 4	5 56		3	27	7 18
18	Wed	<i>Stormy and</i>	6 3	5 57	♏	4	9	8 8
19	Thur	<i>unpleasant weather.</i>	6 2	5 58		sets.		8 53
20	Frid	♄ ♀ rises 5 h. 59 m.	6 1	5 59		7	40	9 35
21	Satur	Days and nights equal.	6 0	6 0	♐	8	35	10 21
22	S.	<i>Fair and more</i>	5 59	6 1		9	0	11 4
23	Mon	Regulus sou. 9 h. 58 m.	5 58	6 2	♑	10	0	11 51
24	Tues	<i>pleasant.</i>	5 57	6 3		10 45		Morn.
25	Wed	Annunciation B. V. M.	5 56	6 4		11	25	0 34
26	Thur	♁ highest.	5 55	6 5	♒	11	59	1 21
27	Frid	<i>Cloudy and</i>	5 54	6 6		morn		2 21
28	Satur	War with Russia, '54.	5 53	6 7	♓	0	40	3 29
29	S.	Palm Sun. <i>some rain.</i>	5 52	6 8		1	35	4 54
30	Mon	Regulus sou. 9 h. 26 m.	5 51	6 9	♈	2	20	6 11
31	Tues	Calkoun died, 1850.	5 50	6 10		3	45	7 16



1th Month,]

APRIL, 1863.

[30 Days.

MOON'S PHASES.

	D.	H.	M.
Full Moon	3	11	3 eve.
Last Quarter	10	9	14 eve
New Moon	17	9	47 eve.
First Quarter	25	8	22 eve.

6 A miller has a head of water four feet above the sluice, how high must the water be raised above the opening so that half as much again water may be discharged from the sluice in the same time?

D. of	D. of	various Phenomena.	Sub	Sun	MOON'S PLACE.	Moon		High tide	
			rise	sets		rise	sets	Savannah	H.
			H.M.	H.M.		H.	M.	H.	M.
1	Wed	Regulus sou. 9h. 18m.	5 49	3 11	♈	4	35	8	4
2	Thur	<i>Pleasant weather.</i>	5 48	3 12		5	2	8	42
3	Frid	Good Friday <i>for</i>	5 47	3 13	♉	rises.		9	16
4	Satur	W. H. Harrison d'd '41.	5 46	3 14		7	0	9	48
5	S.	East. Sunday [ <i>planting.</i>	5 45	3 15	♊	7	58	10	19
6	Mon	Easter Monday.	5 44	3 16		8	36	10	48
7	Tues	☾ lowest.	5 43	3 17	♋	9	21	11	20
8	Wed	<i>Rain with Thunder.</i>	5 42	3 18		10	20	11	42
9	Thur	Edward IV. died 1483.	5 41	3 19		11	18	E.	27
10	Frid	Bat. of Toulouse, 1814.	5 40	3 20	♌	morn.		1	8
11	Satur	Pittsburg burned, 1845.	5 39	3 21		0	15	1	57
12	S.	☽ ☽ ☽ ☽ rises 6h. 22m.	5 38	3 22	♍	1	21	2	58
13	Mon	Fort Sumter taken, '61.	5 37	3 23		2	26	4	18
14	Tues	Embargo repealed 1814	5 36	3 24		3	35	5	33
15	Wed	Spica sou. 11h. 39m.	5 35	3 25	♎	4	50	6	43
16	Thur	<i>Warm for this</i>	5 34	3 26		5	52	7	37
17	Frid	Virginia seceded, 1861.	5 33	3 27	♏	sets.		8	29
18	Satur	<i>month.</i>	5 32	3 28		7	30	9	11
19	S.	☽ enters ♈ [near	5 31	3 29	♐	8	18	9	59
20	Mon	☾ ☽ ♀ at 2h 8m aft. vary	5 30	3 30		9	0	10	47
21	Tues	<i>Cloudy and</i>	5 29	3 31		9	42	11	32
22	Wed	☾ highest. <i>windy,</i>	5 28	3 32	♑	10	31	Morn.	
23	Thur	St. George.	5 27	3 33		11	14	0	17
24	Frid	Brazil discovered, 1500.	5 26	3 34	♒	11	58	1	5
25	Satu	St. Mark. <i>Fair and</i>	5 25	3 35		morn.		2	1
26	S.	Spica sou. 10h. 56m.	5 24	3 36	♓	0	40	3	2
27	Mon	Arcturus sou. 11h. 44m.	5 23	3 37		1	31	4	18
28	Tues	Wolfe killed, 1759.	5 22	3 38	♈	2	22	5	26
29	Wed	<i>pleasant weather.</i>	5 21	3 39		3	11	6	32
30	Thur	Washington inaug. '89.	5 20	3 40	♉	4	0	7	25

5th Month,]

MAY, 1863.

[31 Days.]

## MOON'S PHASES.

D. H. M.  
 Full Moon 3 9 43 mo.  
 Last Quarter 10 5 16 mo.  
 New Moon 17 11 15 mo.  
 First Quarter 25 11 23 mo.

7. What is the velocity of water issuing from a head of water 5 feet deep?

8. What is the difference between the length of a pendulum, which vibrates half seconds, and one which swings 3 seconds?

D of M	D of W	Various Phenomena.	Sun	Sun	MOON'S PLACE.	Moon		High tide	
			rises	sets		ri.	sets	Savannah	H. M.
			H. M.	H. M.		H.	M.	H.	M.
1	Frid	St. Philip & St. James.	5 26	6 40		4 52	8 6		
2	Satur	<i>Warm and dry</i>	5 19	6 41	↑	5 46	8 46		
3	S.	Tennessee seceded '61.	5 18	6 42		rises.	9 20		
4	Mon	Robert Grier died, '48.	5 17	6 43		8 0	9 53		
5	Tues	Moon lowest. <i>Damp</i>	5 16	6 44	∞	8 50	10 25		
6	Wed	Humboldt died '59.	5 15	6 45		9 41	10 59		
7	Thur	<i>and much</i>	5 15	6 45	≈	10 36	11 33		
8	Frid	<i>cloudy weather.</i>	5 14	6 46		11 21	E. 9		
9	Satur	Arcturus sou 10h 56m.	5 13	6 47	✕	11 59	0 52		
10	S.	Rogation Sunday.	5 12	6 48		morn.	1 42		
11	Mon	<i>Rain with</i>	5 12	6 48		0 46	2 38		
12	Tues	Antares sou 1h 0m.	5 11	6 49	∞	1 32	3 46		
13	Wed	<i>thunder.</i>	5 10	6 50		2 25	4 59		
14	Thur	Ascension day.	5 9	6 51	∞	3 36	6 4		
15	Frid	<i>Now we may</i>	5 9	6 51		4 41	7 6		
16	Satur	<i>expect</i>	5 8	6 52		5 58	8 1		
17	S.	Sun eclipsed invisible.	5 7	6 53	∏	sets.	8 51		
18	Mon	<i>a fine growing</i>	5 7	6 53		8 2	9 44		
19	Tues	Moon highest.	5 6	6 54	∞	8 51	10 32		
20	Wed	Sun enters ∏ <i>season.</i>	5 5	6 55		9 40	11 16		
21	Thur	<i>till the end</i>	5 5	6 55	∞	10 36	Morn.		
22	Frid	<del>of this</del>	5 4	6 56		10 53	0 16		
23	Satur	Irish rebellion com. '98.	5 4	6 56	∞	11 31	0 59		
24	S.	Whit Sunday.	5 3	6 57		11 58	1 38		
25	Mon	Whit Monday. <i>month.</i>	5 3	6 57	∞	morn.	2 30		
26	Tues	John Calvin died, 1564.	5 2	6 58		0 52	3 28		
27	Wed	<i>Fair</i>	5 2	6 58		1 47	4 35		
28	Thur	<i>and pleasant.</i>	5 1	6 59	∞	2 35	5 37		
29	Frid	Gen. rumam died, '90.	5 1	6 59		3 21	6 36		
30	Satur	Alex. Pope died, 1744.	5 0	7 0		4 15	7 31		
31	S.	Trinity Sunday.	5 0	7 0		5 20	8 14		

## MOON'S PHASES.

	D.	H.	M.
Full Moon	1	6	1 eve.
Last Quarter	8	1	13 eve.
New Moon	16	1	54 mo.
First Quarter	24	0	19 mo.

9. I observed, that while a stone was falling from a precipice, a string, with a bullet at the end, which measured 25 inches to the middle of the ball, had made five vibrations, what was the height of the precipice?

D. of M	D of W	Various Phenomena.	Sun	Sun	MOON'S PLACE.	Moon		High tide	
			rises	sets		ri	& sts	Savannah	
			H.M.	H.M.		H.	M.	H.	M.
1	Mon	Moon eclipsed visible.	4 59	7 1	♊	rises.	8	54	
2	Tues	Moon lowest. <i>Pleasant</i>	4 59	7 1		8	0	9	29
3	Wed	Transit of ♀ in 1769.	4 58	7 2	♋	8	50	10	7
4	Thur	<i>weather.</i>	4 58	7 2		9	42	10	43
5	Frid	Dr. Worcester died '21.	4 58	7 2		10	31	11	17
6	Satur	<i>Cloudy and some</i>	4 57	7 3	♌	11	22	11	56
7	S.	Antares sou 11h 13m.	4 57	7 3		11	50	E.	39
8	Mon	Gen. Jackson died '45.	4 57	7 3	♍	Morn.	1	26	
9	Tues	S. L. Southard born '87.	4 57	7 3		0	43	2	19
10	Wed	Victory at Bethel, 1861.	4 56	7 4	♎	1	37	3	20
11	Thur	St. Barnabas <i>rain.</i>	4 56	7 4		2	25	4	30
12	Frid	<del>St. Barnabas</del> <i>Warm</i>	4 56	7 4		3	25	5	35
13	Satur	<del>St. Barnabas</del> <i>and unpleasant.</i>	4 56	7 4	♏	4	35	6	43
14	S.	Moon highest.	4 56	7 4		5	40	7	45
15	Mon	<i>Rain with thunder.</i>	4 56	7 4	♐	6	48	8	40
16	Tues	Pres. Polk died, 1849.	4 55	7 5		sets.	9	32	
17	Wed	Bat. Bunker Hill, 1775.	4 55	7 5	♑	9	5	10	20
18	Thur	Bat. Waterloo, 1815.	4 55	7 5		9	1	11	4
19	Frid	<i>More pleasant</i>	4 55	7 5	♒	19	50	11	40
20	Satur	Q. Vict. crowned, '37.	4 55	7 5		0	20	Morn.	
21	S.	Sun ent. ♄. Longest day.	4 55	7 5		10	21	0	28
22	Mon	Antares sou 10h 14m.	4 55	7 5		11	10	1	6
23	Tues	Akenside died, 1772.	4 55	7 5		11	56	1	54
24	Wed	St. John Baptist.	4 55	7 5	♓	Morn.	2	40	
25	Thur	Bish. Gadsden died, '52.	4 55	7 5		0	43	3	33
26	Frid	Bat. Fort Moul. 1776.	4 55	7 5	♈	1	31	4	39
27	Satur	Monmouth Bat. 1778.	4 56	7 4		2	33	5	42
28	S.	<i>Warm and</i>	4 56	7 4		3	41	6	44
29	Mon	♄ lowest. St. Peter.	4 56	7 4	♉	5	88	7	40
30	Tues	<i>dry weather.</i>	4 56	7 4		6	0	8	25

7th Month.]

JULY, 1863.

[31 Days

## MOON'S PHASES.

	D.	H.	M.
Full Moon	1	1	6 mo.
Last Quarter	7	10	17 eve.
New Moon	15	5	3 eve.
First Quarter	23	10	58 mo.
Full Moon	30	7	38 mo.

10. There is a sluice, one end of which is 2 1-2 feet lower than the other, what is the velocity of the stream per second?

11. If a ball fall through a space of 484 feet in 5 1-2 seconds, with what velocity will it strike?

D. of M	D of W	Various Phenomena.	Sun	Sun	MOON'S PLACE	Moon		High tide	
			rises	sets		ri.&sts	Savannah	H.	M.
			H.M.	H.M.		H.	M.	H.	M.
1	Wed	<i>Sultry weather.</i>	4 56	7 4		rises.	9	7	
2	Thur	Vis. of B. V. Mary.	4 56	7 4	≈	8 31	9	46	
3	Frid	Fort Erie taken, 1814.	4 57	7 3		9 21	10	26	
4	Satur	U. S. Dec. Independ. '76.	4 57	7 3	⊕	10 2	11	3	
5	S.	Bat. Cheat Mount, '61.	4 58	7 2		10 4	11	2	
6	Mon	<i>Rain with loud</i>	4 58	7 2		11 6	E.	24	
7	Tues	<i>thunder and</i>	4 58	7 2	☽	morn.	1	8	
8	Wed	Antares sou 9h 12m.	4 58	7 2		0 32	1	57	
9	Thur	Pres. Taylor died 1850.	4 59	7 1	♁	1 25	2	54	
10	Frid	Columbus born, 1447.	4 59	7 1		2 17	4	0	
11	Satur	J. Q. Adams born, 1767.	4 59	7 1		3 21	5	15	
12	S.	Hull invad. Canada, '12.	5 0	7 0	♁	4 0	6	30	
13	Mon	<i>vivid lightning.</i>	5 0	7 0		4 38	7	37	
14	Tues	Moon highest.	5 1	6 59	♁	5 0	8	33	
15	Wed	Antares sou 8h 44m.	5 1	6 59		sets.	9	23	
16	Thur	Hegira begins 622.	5 2	6 58	♁	7 38	10	8	
17	Frid	Elbridge Gerry b. 1732.	5 2	6 58		8 26	10	48	
18	Satur	Bat. Bull Run, 1861.	5 2	6 57	☽	9 15	11	24	
19	S	Congress met at Rich'd	5 3	6 57		10 0	11	59	
20	Mon	Vega sou 10h 36m. ['61	5 4	6 56	♁	10 48	Morn.		
21	Tues	Bat. Manassas 1861.	5 5	6 55		11 21	0	36	
22	Wed	Sun enters ♁.	5 5	6 55	♁	11 59	1	13	
23	Thur	<i>Warm</i>	5 6	6 54		morn.	1	53	
24	Frid	<i>and</i>	5 6	6 54	♁	0 45	2	31	
25	Satur	St. James. <i>dry</i>	5 7	6 53		1 33	3	35	
26	S.	St. Anne. <i>weather.</i>	5 8	6 52		2 40	4	49	
27	Mon	Moon lowest.	5 8	6 52	☽	3 44	6	2	
28	Tues	Dog days begin.	5 9	6 51		4 56	7	8	
29	Wed	<i>Rainy and</i>	5 10	6 50	≈	6 0	8	1	
30	Thur	<i>stormy.</i>	5 11	6 49		rises.	8	45	
31	Frid	Fomalhaut sou 2h 13m.	5 11	6 49	⊕	8 21	9	26	

## MOON'S PHASES.

	D.	H.	M.
Last Quarter	6	9	28 mo.
New Moon	14	8	27 mo.
First Quarter	21	8	12 eve.
Full Moon	28	3	19 eve.

12. If a ball strike the ground with a velocity of 56 feet per second, from what height did it fall?

13. In what time will a musket ball, dropped from the top of a steeple 484 feet high, come to the ground?

D.	D of M	D of W	Various Phenomena.	Sun	Sun	MOON PLACE.	MOON		Hi <sup>h</sup> Tide	
				rises	sets		ri	sts	Savannah	
				H. M.	H. M.		H.	M.	H.	M.
1	Satur		Lamac Day.	5 12	6 48		9 10	10	5	
2	S.		<i>Sweltry weather.</i>	5 13	6 47		9 57	10	42	
3	Mon		Burr's trial com. 1807.	5 13	6 47	☽	10 47	11	23	
4	Tues		Brownstown Bat. 1812.	5 14	6 46		11 21	Even.	5	
5	Wed		Fomalhaut sou 1h 53m.	5 15	6 45	♋	11 54	0	47	
6	Thur		Bat. Hang. Rock, 1780	5 16	6 44		Morn.	1	36	
7	Frid		<i>Rain and thunder.</i>	5 17	6 43		0 41	2	25	
8	Satur		<i>Cloudy and</i>	5 17	6 43	♌	1 36	3	36	
9	S.		Bat. Oak Hill, 1861.	5 18	6 42		2 25	4	58	
10	Mon		Moon highest. <i>windy</i>	5 19	6 41	♍	3 35	6	20	
11	Tues		<i>weather,</i>	5 20	6 40		4 45	7	30	
12	Wed		George IV. born, 1762.	5 21	6 39	♎	5 55	8	25	
13	Thur		<i>Now we may</i>	5 22	6 38		6 10	9	14	
14	Frid		Altair sou 10h 9m.	5 22	6 38	♏	Sets.	9	50	
15	Satur		Bonaparte born, 1769.	5 23	6 37		8 1	10	25	
16	S.		Bat. at Camden, 1780.	5 24	6 36	♐	8 50	10	59	
17	Mon		<i>expect a heavy</i>	5 25	6 35		9 31	11	32	
18	Tues		Altair sou 9h 53m.	5 26	6 34	♑	10 22	Morn.		
19	Wed		<i>storm of wind and</i>	5 27	6 33		11 10	0	16	
20	Thur		Bat. in Mexico, 1847.	5 28	6 32	♒	11 50	0	36	
21	Frid		Wm. IV born, 1765.	5 29	6 31		Morn.	1	12	
22	Satur	☼	enters ♏. <i>rain.</i>	5 30	6 30		0 40	1	51	
23	S.		♑ lowest. [ <i>from N. E.</i>	5 31	6 29	♓	1 31	2	44	
24	Mon		♀ brightest in the eve.	5 32	6 28		2 21	3	57	
25	Tues		Bp. Bowen died 1839.	5 33	6 27	♈	3 25	5	17	
26	Wed		Dr. Adam Clark d. '32.	5 34	6 26		4 15	6	32	
27	Thur		<i>Fair and mild.</i>	5 35	6 25		5 16	7	31	
28	Frid		Hatteras taken 1861.	5 36	6 24	♉	Rises.	8	18	
29	Satur		St. John Bap. beheaded	5 37	6 23		7 31	9	2	
30	S.		Paley born, 1743.	5 38	6 22	♊	8 15	9	41	
31	Mon		Bunyan died, 1688.	5 39	6 21		9 0	10	20	

## MOON'S PHASES.

	D.	H.	M.
Last Quarter	4	11	13 eve.
New Moon	12	11	29 eve.
First Quarter	20	4	41 mo.
Full Moon	27	0	32 mo.

14. If the attraction of the moon raise a tide on the earth five feet high, what will be the height of a tide, raised by the earth on the surface of the moon, under similar circumstances.

D.	D.	Various Phenomena.	Sun	Sun	MOON'S PLACE.	Moon	H. Tide
			rises	sets		ri & sts	SAVAN- NAH.
M	W		H.M.	H.M.		H. M.	H. M.
1	Tues	<i>Fair and warm.</i>	5 39	6 21		9 40	11 0
2	Wed	London burn'd, 1666.	5 40	6 20	♄	10 20	11 44
3	Thur	<i>Cloudy, and some</i>	5 41	6 19		11 10	ev. 27
4	Frid	Altair S. 8 h's 46 min.	5 42	6 18	♂	morn.	1 15
5	Satur	Dog-days end. <i>rain</i>	5 43	6 17		0 2	2 9
6	S.	Lafayette, born, 1757.	5 44	6 16		0 58	3 20
7	Mon	highest. <i>with thun-</i>	5 45	6 15	♁	1 43	4 46
8	Tues	Bat. Eutaw, 1781. <i>der.</i>	5 46	6 14		2 56	6 10
9	Wed	Fomalhaut sou. 11h 32m	5 47	6 13	♃	3 2	7 18
10	Thur	Bat. Lake Erie, 1813.	5 48	6 12		4 15	8 8
11	Frid	<i>Cloudy and</i>	5 49	6 11	♂	5 25	8 49
12	Satur	<i>damp.</i>	5 50	6 10		sets.	9 25
13	S.	Donati's Comet, 1858.	5 51	6 9	♁	7 0	9 59
14	Mon	Moscow burned, 1812.	5 52	6 8		7 54	10 30
15	Tues	Surren. of N. Y., 1776.	5 53	6 7	♃	8 43	11 1
16	Wed	Fomalhaut sou. 11h 4m.	5 54	6 6		9 31	11 32
17	Thur	<i>Changeable and</i>	5 55	6 5	♄	10 20	morn.
18	Frid	<i>unsettled weather.</i>	5 56	6 4		11 5	0 16
19	Satur	Moon lowest.	5 57	6 3	♁	11 56	0 36
20	S.	<i>Stormy and boisterous.</i>	5 58	6 2		morn.	1 16
21	Mon	St. Matthew.	5 59	6 1	♁	0 43	2 5
22	Tues	<i>Weather may now</i>	6 0	6 0		1 32	3 10
23	Wed	Sun enters ♋. Days and	6 1	5 59		2 37	4 36
24	Thur	[nights equal.	6 2	5 58	♃	3 46	5 54
25	Frid	Fomalhaut sou. 10h 29m	6 3	5 57		4 28	7 1
26	Satur	<i>be expected fair.</i>	6 4	5 56	♁	5 29	7 49
27	S.	Arctic lost, 1854.	6 5	5 55		rises.	8 33
28	Mon	Detroit retaken, 1813.	6 6	5 54		7 21	9 12
29	Tues	♀ ♂ Sun Inferior.	6 7	5 53	♄	8 10	9 55
30	Wed	♂ ♂ Sun. St. Jerome.	6 8	5 52		9 0	10 40

MOON'S PHASES.

	D.	H.	M.
Last Quarter	4	3	27 eve.
New Moon	12	1	27 eve.
First Quarter	19	1	34 eve.
Full Moon	26	0	31 eve.

15. Suppose a vessel 3 feet wide, 5 feet long and 4 feet high, what is the perpendicular pressure on the bottom, it being filled with water to the brim?

D.	D of M.	D of W	Various Phenomena.	Sun	Sun	MOON'S PLACE.	Moon		High tide	
				rises	sets.		ri	sts	Savannah	H. M.
				H. M.	H. M.		H.	M.	H.	M.
1	Thur	♃ ♀	<i>Cloudy and</i>	6 9	5 51	♏	9	56	11	24
2	Frid		Major Andre exe. 1780.	6 10	5 50		10	43	E.	11
3	Satur		<i>damp weather.</i>	6 11	5 49		11	36	0	58
4	S.		♄ highest.	6 12	5 48	♏	morn.		1	55
5	Mon		Brainard died, 1747.	6 13	5 47		0	21	3	4
6	Tues		Fomalhaut sou 9h 46m.	6 14	5 46	♏	1	15	4	27
7	Wed		Bat King's Mount. '80.	6 15	5 45		2	14	5	49
8	Thur		<i>Cool nights and</i>	6 15	5 45	♏	3	12	6	55
9	Frid		Battle Schleit, 1806.	6 16	5 44		4	8	7	44
10	Satur		<i>mornings.</i>	6 17	5 43	♏	4	59	8	25
11	S.		Bahamas discov'd 1492.	6 18	5 42		5	48	8	59
12	Mon		<i>Fair and</i>	6 19	5 41	♏	sets.		9	32
13	Tues		<i>mild weather.</i>	6 20	5 40		6	21	10	3
14	Wed		Fomalhaut sou 9h 14m.	6 21	5 39	♏	7	22	10	34
15	Thur		Bank Panic, 1857.	6 22	5 38		8	28	11	6
16	Frid		<i>Raining and</i>	6 23	5 37	♏	9	36	11	37
17	Satur		Burgoyne surrend 1777.	6 24	5 36		10	42	Morn.	
18	S.		St. Luke. <i>stormy.</i>	6 25	5 35		11	50	0	16
19	Mon		Cornwallis sur 1781.	6 26	5 34	♏	morn.		0	50
20	Tues		<i>Windy and cool.</i>	6 27	5 33		0	42	1	35
21	Wed		Fomalhaut sou 8h 47m.	6 28	5 32	♏	1	36	2	34
22	Thur		<i>Now we may expect</i>	6 29	5 31		2	39	3	53
23	Frid	☉	enters ♏.	6 30	5 30		3	21	5	9
24	Satur		<i>frost.</i>	6 31	5 29	♏	4	28	6	21
25	S.	7 *	sou 1h 23m.	6 32	5 28		5	41	7	16
26	Mon		<i>Changeable and</i>	6 33	5 27	♏	rises.		8	4
27	Tues		Fomalhaut sou 8h 23m.	6 34	5 26		7	1	8	49
28	Wed		St. Sim. and St. Jude.	6 35	5 25		7	58	9	35
29	Thur		<i>unsettled.</i>	6 36	5 24	♏	8	42	10	21
30	Frid		♄ highest.	6 37	5 23		9	31	11	7
31	Satur	♃ ♀ ☉	<i>weather.</i>	6 38	5 22	♏	10	14	11	54

MOON'S PHASES.

	D.	H.	M.
Last Quarter	3	9	28 mo.
New Moon	11	2	36 mo.
First Quarter	17	11	29 eve.
Full Moon	25	3	29 mo.

16. With what velocity will an iron ball begin to descend, if raised 3,000 miles above the earth's surface?

17. How high must a ball be raised, to lose half its weight?

D. of M.	D. of W.	Various Phenomena.	Sun rises	Sun sets	MOON'S PLACE.	Moon rises	Moon sets	H. Tide SAVANNAH.	
			H. M.	H. M.		H.	M.	H.	M.
1	S.	All Saint's day.	6 39	5 21		11 5		eve.	45
2	Mon	All Souls' day.	6 40	5 20	♋	11 57		1	38
3	Tues	<i>Fair and Cool.</i>	6 40	5 20		morn.		2	38
4	Wed	♀ brightest in the morn.	6 41	5 19		0 43		3	53
5	Thur	Gunpowder plot, 1605.	6 42	5 18	♌	1 37		5	
6	Frid	Leonard. <i>Cloudy</i>	6 43	5 17		2 36		6	15
7	Satur	Bat. Belmont, 1861.	6 44	5 16	♍	3 34		7	11
8	S.	Transit of ♃, 1848.	6 45	5 15		4 31		7	54
9	Mon	<i>and Damp.</i>	6 46	5 14	♎	5 21		8	33
10	Tues	Milton died, 1674.	6 46	5 14		6 2		9	8
11	Wed	☉ Eclipsed, invisible.	6 47	5 13	♏	sets.		9	42
12	Thur	<i>Frosty and</i>	6 48	5 12		6 31		10	13
13	Frid	Moon lowest. <i>Fair.</i>	6 49	5 11	♐	7 39		10	45
14	Satur	Chas. Carroll d., 1832.	6 49	5 11		8 36		11	18
15	S.	Witherspoon d., 1794.	6 50	5 10	♑	9 51		11	52
16	Mon	Tea dest'd Boston, 1773	6 51	5 9		10 59		morn.	
17	Tues	7 Stars sou. 11h 49m.	6 52	5 8		morn.		0	31
18	Wed	<i>Windy, and a Cold</i>	6 52	5 8	♒	0 8		1	15
19	Thur	7 Stars sou. 11h 41m.	6 53	5 7		1 10		2	7
20	Frid	<i>Rain may be expected.</i>	6 54	5 6	♓	2 21		3	9
21	Satur	Sun enters ♈	6 54	5 6		3 36		4	25
22	S.	<i>Fair, and</i>	6 55	5 5		4 48		5	35
23	Mon	Bomb. Ft. Pickens, '61.	6 56	5 4	♈	5 35		6	42
24	Tues	<i>Cold Winds.</i>	6 56	5 4		6 25		7	38
25	Wed	Moon Eclipsed, visible.	6 57	5 3	♉	rises.		8	27
26	Thur	Q. Isabella died, 1504.	6 58	5 2		6 10		9	19
27	Frid	Moon highest.	6 58	5 2	♊	7 0		10	9
28	Satur	<i>Cloudy Weather.</i>	6 59	5 1		7 56		10	57
29	S	Advent Sunday.	6 59	5 1		8 43		11	42
30	Mon	St. Andrew's Day.	7 0	5 0	♋	9 39		eve.	29



12th Month.]

DECEMBER, 1863.

[31 Days.

## MOON'S PHASES.

	D.	H.	M.
Last Quarter	3	3	53 mo.
New Moon	10	2	43 eve.
First Quarter	17	10	39 mo.
Full Moon	24	9	0 eve.

18. If the velocity of a stream of water spouting through the bulk head of a mill be 16 feet per second, what head of water is there?

D.	D.	Various Phenomena.	Sun	Sun	MOON'S PLACE.	Moon.		High tide	
			rises	sets		ri. & sts	Sovannah		
M	W		H. M.	H. M.		H.	M.	H.	M.
1	Tues	Days 10 hours long.	7	05 0		10	25	1	18
2	Wed	7 Stars souths 10h 50m.	7	14 59	♈	11	21	2	8
3	Thur	<i>Fair and Frosty.</i>	7	14 59		morn.			4
4	Frid	Sun fast, clock 9m 19s.	7	24 58	♉	0	15	4	12
5	Satur	<i>Rainy and Cool.</i>	7	24 58		1	25	5	18
6	S.	Van Buren born, 1782.	7	24 58	♊	2	35	6	24
7	Mon	<i>Windy and</i>	7	34 57		3	48	7	20
8	Tues	7 Stars souths 10h 26m.	7	34 57	♋	4	59	8	3
9	Wed	<i>unpleasant Weather.</i>	7	34 57		5	58	8	43
10	Thur	Moon lowest.	7	34 57	♌	sets.		9	21
11	Frid	Gt. Fire Charleston, '61.	7	44 56		5	59	9	56
12	Satur	<i>Cold enough</i>	7	44 56	♍	6	40	10	31
13	S.	Bat. Valley Mount., 1861	7	44 56		7	28	11	5
14	Mon	Washington died, 1799.	7	44 56		8	45	11	40
15	Tues	<i>for Ice.</i>	7	44 56	♎	9	40	morn.	
16	Wed	Gt. Fire N. York, 1835.	7	54 55		10	53	0	17
17	Thur	<i>Rainy and unpleasant</i>	7	54 55	♏	morn.		1	0
18	Frid	Sun fast. Clock 2m 51s.	7	54 55		0	2	1	50
19	Satur	<i>Weather.</i>	7	54 55		1	12	2	59
20	S.	S. Carolina seced. '60.	7	54 55	♐	2	21	4	25
21	Mon	Sun ent. ♍ Shortest day.	7	54 55		3	42	5	35
22	Tues	Land. of Pilgrims, 1620.	7	54 55	♑	4	56	6	42
23	Wed	Sir I. Newton born, 1642	7	54 55		6	2	7	38
24	Thur	Sun & clock agree.	7	54 55		rises.		8	27
25	Frid	CHRISTMAS DAY. <i>Clear</i>	7	54 55	♒	5	58	9	10
26	Satur	highest. St. Stephen.	7	54 55		6	48	10	9
27	S.	St. John Evang. <i>and</i>	7	44 56	♓	7	37	10	57
28	Mon	Innocents. <i>cold weather</i>	7	44 56		8	26	11	42
29	Tues	The Java taken, 1812.	7	44 56	♈	9	13	eve. 26	
30	Wed	7 Stars souths 9h 0m.	7	44 56		10	14	1	19
31	Thur	<i>for this Climate.</i>	7	44 56	♉	11	12	2	10

## GOVERNMENT OF THE CONFEDERATE STATES.

EXECUTIVE CABINET.—Jefferson Davis, of Miss., President; Alexander H. Stephens, of Ga., Vice-President; J. P. Benjamin, of La., Secretary of State; G. G. Memminger, of S. C., Sec. Treasury; Jas. A. Seddon, of Va., Sec. War; R. S. Mallory, Sec. Navy; John H. Reagan, Postmaster-General; A. T. Watts, Attorney General.

## GOVERNMENT OF GEORGIA.

Capitol—MILLEDGEVILLE.

Area—58,000 Square Miles; " " " " Total Population—1,082,797;  
Slaves—467,461.

EXECUTIVE AND CABINET.—Joseph E. Brown, Governor; H. H. Waters and J. J. Campbell, Secretaries Ex. Depart't; N. C. Barnett, Sec. State; Peterson Thweatt, Comp. Gen'l; John Jones, Treasurer; H. C. Wayne, Adj't and Insp'r Gen'l.

### REPRESENTATION IN CONFEDERATE CONGRESS.

B. H. Hill, } SENATORS. } H. V. Johnson.  
REPRESENTATIVES.

1st District,	Julian Hartridge,	6th District,	W. W. Clark,
2d do	C. J. Munnerlyn,	7th do	R. P. Trippe,
3d do	Hines Holt,	8th do	L. J. Gartrell,
4th do	A. H. Kenaa,	9th do	Hardy Strickland,
5th do	D. W. Lewis,	10th do	A. R. Wright.

## GOVERNMENT OF ALABAMA,

Capitol—MONTGOMERY.

Area—50,722 Square Miles; " " " " Total Population—935,917;  
Slaves—435,473.

John Gill Shorter, Governor; P. H. Britton, Secretary of State; W. J. Green, Comptroller; D. B. Graham, Treasurer.  
Clement C. Clay, | SENATORS. | William L. Yancy.

## GOVERNMENT OF MISSISSIPPI,

Capitol—JACKSON.

Area—47,156 Square Miles; " " " " Total Population—887,158;  
Slaves—479,677.

John J. Pettus, Governor; Charles A. Brougher, Secretary of State; A. J. Gillespie, Auditor of Public Accounts, M. D. Haynes, State Treasurer; T. J. Wharton, Attorney General.  
Albert Brown, | SENATORS. | James Phelan.

## GOVERNMENT OF LOUISIANA,

Capitol—BATON ROUGE.

Area—41,436 Square Miles; " " " " Total Population—666,431  
Slaves—312,186.

Thomas O. Moore, Governor; H. M. Hyams, Lieut. Governor; P. D. Harely, Secretary of State; Thomas J. Semmes, Attorney General.

**TIMES AND PLACES OF HOLDING  
Superior and Inferior Courts of Georgia,  
FOR 1863.**

COUNTIES	SUPERIOR COURTS.	INFERIOR COURTS.	Co. TOWNS.
Appling.....	1st Monday Mar. and Sept.	1st Monday June and Dec.	Holmesville
Baker.....	2d do May and Nov.	Tues aft 1st Mon Jan July.	Newton
Baldwin.....	4th do Feb. and Aug.	3d Monday May and Nov.	Milledgeville
Banks.....	Thur aft 1st Mon Apl & Oct.	1st do Feb and Aug.	
Berrien.....	Monday after Super. Court in Irwin.	2d do Jan and July.	Nashville
Bibb.....	2d Monday May and Nov.	last do Feb, 4th Mo. Aug.	Macon
Brooks.....	2d do Dec and June.	3d do Feb and Aug.	Eden
Bryan.....	Day after 3d Mon Ap'l and Mon aft Liberty Court Nov	4th do Jan and June	
Bulloch.....	Friday after 3d Mon Mar & Friday after 4th Mon Oct	1st do Feb and July.	Statesboro
Burke.....	3d Monday May and Nov	1st do Jan and July.	Waynesboro'
Butts.....	2d do Mar and Sept	2d do Jan and July.	Jackson
Calhoun.....	4th do May and Nov	3d do May and Nov.	Morgan
Camden.....	3d do April and Oct	1st do Jan and June.	Jeffersonton
Campbell.....	2d do Feb and Aug	2d do June and Dec.	Campbellton
Carroll.....	1st do April and Oct;	4th do June and Dec.	Carrollton
Cuss.....	2d do Mar and Sept.	4th do May and Nov.	Cassville
Catoosa.....	2d do May and Nov.	4th do Jan and July.	Ringgold
Chatham.....	2d do Jan and May.	3d do Feb and July	Savannah
Chattahoochee.....	3d do May and Nov	3d do Feb and Aug.	Cusseta
Chattooga.....	1st do Mar and Sept	4th do May and Nov.	Summersville
Cherokee.....	1st do do do	2d do June and Dec.	Canton
Chorlton.....	2d do April and Oct.	1st do Feb and Sept.	Traders' Hill
Clarke.....	1st do Feb, 2d Mo. Au	4th do April and Oct.	Watkinsville
Clay.....	4th do Mar and Sept.	4th do Jan and July.	Fort Gaines
Clayton.....	1st do May and Nov.	1st do Feb and July.	Jonesboro'
Clinch.....	4th do Mar and Sept.	3d do Jan and July.	Magolia
Cobb.....	3d do do do	3d do June and Dec.	Marietta
Coffee.....	2d do do do	1st do May and Nov.	Douglas
Columbia.....	1st do do do	1st do Feb and July.	Appling
Colquitt.....	last do in May, and Monday after 4th Mon Nov	1st do Jan and July.	Moultrie
Coweta.....	1st do Mar and Sept.	1st do June and Dec.	Newnan
Crawford.....	1st do do do	3d do Jan and July.	Knoxville
Dade.....	4th do May and Nov.	1st do Mar and Sept.	Trenton
Dawson.....	2d do Feb and Aug.	1st do June and Dec.	Dawsonville
Decatur.....	4th do April and Oct.	2d do Jan and July.	Bainbridge
DeKalb.....	4th do do do	3d do Jan and July.	Decatur
Dooly.....	1st do do do	3d do June and Dec.	Vienna
Dougherty.....	1st do June and Dec.	1st do Mar and Sept.	Albany
Early.....	1st do April and Oct.	3d do June and Dec.	Blakely
Echols.....	Mon aft 4th Mon Mar Sept.	Mon aft inf Court in Clinch	
Effingham.....	Mon aft 4th Mon Mar. and 2d Mon aft 4th Mon Oct.	2d Monday Feb and July.	Springfield
Elbert.....	2d Monday Mar and Sept.	2d do Jan and July.	Elberton
Emanuel.....	1st do April and Oct	1st do do do	Paris
Fannin.....	2d do May and Oct.	2d do do do	Morganton
Fayette.....	2d do Mar and Sept.	2d do Jan and June.	Fayetteville
Floyd.....	3d do Jan & 1st Mo July	2d do April and Oct.	Rome
Forsyth.....	3d do Feb and Aug.	3d do do do	Cumming
Franklin.....	1st do April and Oct.	4th do Jan and July.	Carnesville
Fulton.....	1st do do do	3d do June and Dec.	Atlanta
Gilmer.....	1st do May and Oct.	2d do Jan, 1st Mon July	Elijay
Glascock.....	3d do Feb and Aug.	4th do May and Nov.	Groson
Glynn.....	4th do April and Oct.	2d do Jan and June.	Brunswick
Greene.....	2d do Mar and Sept.	2d do June and Dec.	Greensboro'
Gordon.....	1st do April and Oct.	4th do Jan and July.	Cal'eun
Gwinnett.....	1st do Mar & 2d Sept	1st do June and Dec.	Lawrenceville
Habersham.....	Thur aft 4th Mon Mar Sept	2d do Jan and July.	Clarkesville
Hall.....	3d Monday Mar and Sept.	4th do do do	Gainesville
Hancock.....	2d do April and Oct.	1st do Feb and Aug.	Sparta
Haralson.....	3d do do do	2d do Jan and July.	Tallapoosa

# Superior and Inferior Courts of Georgia, Continued.

COUNTIES.	SUPERIOR COURTS	INFERIOR COURTS.	Co TOWNS.
Harris	2d Monday April and Oct	2d Monday Jan and July	Hamilton
Hart	3d do March and Sept	3d do June and Dec	Hartwell
Heard	3d do April and Oct	2d do Jan and July	Franklin
Henry	3d do April and Sept	4th do Feb and Aug	McDonough
Houston	4th do do do	4th do Jan and July	Perry
Irwin	Thurs aft Sup Court Telfair	4th do Jan 1st Mo July	Irwinville
Jackson	4th Monday Feb and Aug	2d do Jan and July	Jefferson
Jasper	4th do April and Oct	4th do do do	Menticello
Jefferson	2d do May and Nov	3d do do do	Louisville
Johanson	4th do Mar and Sept	2d do April and Oct	Clinton
Jones	3d do April and Oct	4th do Jan and July	Dublin
Laurens	2d do do do	1st do Jan and Dec	Starkesville
Lee	4th do March and Sept	4th do Jan and July	Hinesville
Liberty	3d Mo Apr Mo of 4 Mo Nov	2d do Jan and July	Lineolnton
Lincola	4th Monday April and Oct	1st do Feb and July	Troupville
Lewdass	1st do June and Dec	1st do Feb and Aug	Dahlengra
Lumpkin	1st do Feb and Aug	3d do June and Dec	Oglethorpe
Macon	3d do March and Sept	1st do Feb and July	Danielsville
Madsen	1st do do do	2d do Jan and July	Buena Vista
Marion	1st do do do	2d do May and Nov	Darien
McIntosh	Tues. aft 3d Mon April and Thursday aft 4th Mon Nov	3d do Jan and June	Greenville
Meriwether	3d Monday Feb and Aug	4th do April and Oct	Colquitt
Miller	2d do April and Oct	4th do March and Sept	Alpharetta
Milton	4th do March and Sept	4th do June and Dec	Camilla
Mitchell	2d do May and Nov	4th do Feb and Aug	Forsyth
Monroe	4th do Feb and Aug	3d do June and Dec,	M't Vernon.
Montgomery	Thurs aft 2d Mon Mar and Thursday aft 3d Mon Oct	1st do Feb and Aug	Madison
Morgan	1st Monday Mar and Sept	1st do June and Dec	Spring Place
Murray	3d do April and Oct	3d do Jan and July	Columbus
Muscogee	4th do May and Sept	2d do Mar and Sept	Covington
Newton	3d do March and Sept	4th do June and Dec	Lexington
Oglethorpe	3d do April and Oct	4th do Jan and June	Dallas
Panhandling	4th do Feb and Aug	2d do June and Dec	Jasper
Pickens	2d do March and Sept	3d do Jan and July	Blackshear
Pierce	Th before 1st Mon Mar Sept	2d do June and Dec	Zebulen
Pike	1st Mo Apr & Th af 1 Mo Oct	1st do do do	Cedar Town
Polk	4th Monday April and Oct	4th do do do	Hawkinsville
Pulaski	3d do do do	4th do Jan 1st Mon July	Eatonton
Putnam	4th do Mar and Sept	3d do June and Dec	Georgetown
Quitman	3d do May and Nov	2d do Feb and Aug	Clayton
Rabun	4th do Mar and Sept	1st do Jan and July	Cuthbert
Randolph	1st Monday May and Nov	1st do Feb and Aug	Augusta
Richmond	2d do April and Oct	1st do June and Dec	Ellaville
Schley	4th do April and Oct	4th do Jan and Aug	Sylvania
Scriven	1st do May and Nov.	2d do Jan and July	Griffin
Spalding	3d do May and Nov	3d do Feb and Aug	Lumpkin
Stewart	3d do April and Oct	1st do Feb and June	Americus
Sumter	2d do do do	3d do Jan and July	Talbotton
Talbot	3d do March and Sept	3d do June and Dec	Crawferdville
Taliaferre	4th do Feb and Aug	1st do do do	Reedsville
Tattnall	3d do Mar & 4th M Oct	2d do Feb and Aug	Butler
Taylor	1st do April and Oct	2d do do do	Jacksonville
Terrell	4th do May and Nov.	4th do do do	Thomasville
Telfair	Frid after Courts in Wilcox	4th do Jan and July	Hiwassee
Thomas	1st Monday June and Dec	4th do Feb and Aug.	LaGrange
Towns	Thn af 3d Mon May & Oct	3d do June and Dec	Marion
Troup	3d Monday May and Nov	1st do Feb and Aug	Blairsville
Twiggs	4th do March and Sept	4th do Jan and July	Thermaston
Union	3d do May and Oct.	4th do June and Dec	LaFayette
Upson	1st do May and Nov	1st do Feb and Aug	Monroe
Walker	Mo before 1st Mo Mar Sept	1st do May and Dec	Wareboro
Walton	2 & 3 Mon Feb & 3 Mo Aug	3d do May and Nov	
Ware	3d Monday Mar and Sept.	3d do June and Dec	

# Superior and Inferior Courts of Georgia.

## Continued.

COUNTIES.	SUPERIOR COURTS.	INFERIOR COURTS,	Co. TOWNS.
Warren .....	1st Monday April and Oct	2d Monday Feb and Aug	Warrenton
Washington...	2d do Mar and Sept	4th do Jan and July	Sandersville
Wayne .....	Th after 3d Mon April Oct	2d do do do	Waynesville
Webster.....	2d Monday March and Sept	2d do June and Dec	Preston
White .....	Thu af 3d Mon Mar & Sept	4th do June and Dec	M't Yonah
Wilcox .....	4th do April and Oct	2d do Jan and July	Abbeville
Wilkes.....	4th do March and Sept	1st do May and Nov	Washington
Wilkinson...	1st do April and Oct	2d do Jan and July	Irwinton
Whitfield.....	4th do do do	1st do do do	Dalton
Worth .....	3d do do do	1st do June and Dec	Isabella

## SUPERIOR COURTS—CIRCUITS, JUDGES AND SOLICITORS.

**BRUNSWICK CIRCUIT**—Appling, Camden, Charlten, Clinch, Coffee, Echols, Glynn, Pierce, Ware, Wayne... W. M. Sessions, Judge; W. H. Dasher, Solicitor.

**PATAULA CIRCUIT**—Chattahoochee, Clay, Early, Miller, Quitman, Randolph, Stewart, Webster. .... Judge; F. D. Bailey, Solicitor.

**TALLAPOOSA CIRCUIT**—Campbell, Carroll, Coweta, Floyd, Haralson, Heard, Paulding, Polk... D. F. Hammond, Judge; Herbert Fielder, Solicitor.

**NORTHERN CIRCUIT**—Elbert, Glascock, Hancock, Hart, Lincoln, Madison, Oglethorpe, Taliaferro, Warren, Wilkes... Thomas W Thomas, Judge; J C Burch, Solicitor.

**EASTERN CIRCUIT**—Bryan, Bullock, Chatham, Effingham, Liberty, McIntosh, Montgomery, Tatnall... W B Fleming, Judge; C C Wilson, Solicitor.

**MIDDLE CIRCUIT**—Burke, Columbia, Emanuel, Jefferson, Johnson, Richmond, Spivey, Washington... W W Holt, Judge; W. W. Montgomery, Attorney General

**WESTERN CIRCUIT**—Clarke, Franklin, Gwinnett, Habersham, Hall Jackson, Rabun, Walton, White Banks... N L Hutchins, Judge; S P Thurmond, Solicitor.

**OCMULGEE CIRCUIT**—Baldwin, Greene, Jones, Jasper, Morgan, Putnam, Wilkinson... Iverson L Harris, Judge; Wm A Lofton, Solicitor.

**SOUTHERN CIRCUIT**—Berrien, Brooks, Colquitt, Laurens, Lowndes, Irwin, Pulaski, Telfair, Thomas, Wilcox. .A H Hansell, Judge; S B Spencer, Solicitor.

**FLINT CIRCUIT**—Butts, Henry, Merros, Newton, Pike, Spalding, Upson... E G. Cabiness, Judge; A. D. Hammond, Solicitor.

**CHEROKEE CIRCUIT**—Cass, Catoosa, Chattooga, Dade, Gordon, Murray, Whitfield, Walker... W. Crook, Judge; J. W. A. Johnson, Solicitor.

**COWETA CIRCUIT**—Clayton, DeKalb, Fayette, Fulton, Meriwether, Troup... O. A. Bull Judge; Thomas L Cooper, Solicitor.

**SOUTH-WESTERN CIRCUIT**—Baker, Calhoun, Decatur, Dougherty, Lee, Mitchell, Sumter... A A Allen, Judge; W E Smith, Solicitor.

**CHATTAHOOCHEE CIRCUIT**—Harris, Marion, Muscogee, Schley, Talbot, Taylor... F H Worrell, Judge; J Peabody, Solicitor.

**MACON CIRCUIT**—Bibb, Crawford, Doely, Houston, Macon, Twiggs, Worth... Henry G Lamar, Judge; Theodorick W Mountfort, Solicitor.

**BLUE RIDGE CIRCUIT**—Cherokee, Cobb, Dawson, Fannin, Forsyth, Gilmer, Lumpkin, Milton, Pickens, Towns, Union... George D Rice, Judge; Wm Phillips, Solicitor.

## SUPREME COURT OF GEORGIA.

*Officers.* [Elected by the Legislature, for the term of 6 years.] Salary

Joseph H. Lumpkin, of Athens, <i>Judge.</i> .....	\$2,500
Charles J. Jenkins, of Richmond, do .....	2,500
Thos. J. Lyon, of Fulton do .....	2,500

**First District.**—Composed of the Eastern, Middle and Brunswick Judicial Circuits at Savannah, on the second Monday's in January and June in each year.

**Second District.**—Composed of the Macon, South-western Chattahoochee and Pataula Judicial Circuits, at Macon—on 4th Monday in January and June in each year.

**Third District.**—Composed of the Flint Coweta, Blue Ridge, Cherokee and Tallapoosa Judicial Circuits, at Atlanta, on 4th Mon. in March and 2n Mon. in Aug. ea. yr.

**Fourth District.**—Composed of the Western and Northern Judicial Circuits, at Athens—on the 4th Monday in May and 4th Monday in November in each year.

**Fifth District.**—Composed of the Ocmulgee and Southern Judicial Circuits, at Milledgeville, on the second Mondays in May and November in each year.

## DOMESTIC RECIPES.

**PORK, BEEF OR MUTTON—HOW TO PRESERVE.**—Take water, four gallons, coarse sugar, one and a half pounds, saltpeter, two ounces; common salt, eight pounds; put the whole into a clean pot and let it boil, carefully taking off the scum; and when no more scum will rise, pour it into the vessel you intend to keep it in, and when cold, put in your meat. This is all that is necessary, if you head up your cask; but if kept as a house pickle in an open vessel, when fresh, is put in weekly, or from time to time; then in that case, the pickle should be reboiled every six weeks.

**CURING HAMS AND BACON.**—Use equal quantities of common Soda and Saltpeter—one ounce and a half of each to the fourteen pounds of Ham or Bacon, using the usual quantity of salt. The Soda prevents that hardness in the lean of the Bacon which is so often found, and keeps it quite mellow all through, besides being a preventive of rust.

**SUBSTITUTE FOR SODA.**—A lady sends the following, which we publish for the information of house-keepers:

To the ashes of corn cobs add a little boiling water. After allowing it to stand for a few minutes, pour off the lye which can be used at once with an acid [sour milk, or vinegar] It makes the bread as light almost as Soda.

**TO SAVE PORK.**—Mr. John H. Taylor, gives through the Columbus Enquirer the following recipe for saving pork in an economical manner.\* He says several gentlemen have successfully practiced it the past year in Harris county.

“To 5 gallons of water add 7 pounds of salt, 1 pint of syrup, and 1 teaspoonful of powdered saltpetre. After the pork is cooled in the usual way, pack in barrels and cover with the above mixture—let it remain four or five weeks, and hang and smoke in the usual manner.”

Thus twenty pounds of salt are made to save one thousand pounds of pork.

**CONFEDERATE DYE—TO MAKE A BEAUTIFUL BLUE.**—Take elder berries, mash them and press out the juice. To two gallons of juice add about one ounce of coppers and two ounces of alum. Dip the thread in this thoroughly, and air, and the dye is set.

**SAUSAGE MEAT.**—After several years experience, I have found the following recipe to be the best for preparing sausage meat I have ever seen:

To 50 lbs. of chopped meat, add 1½ lbs of salt, 4 oz. of good black pepper, 14 table spoonfuls of sage.

**HOW TO MAKE TALLOW CANDLES HARD.**—Take the leaf of the Prickly Pear, say four or five cut up and boil with one pound of tallow, and your candles will surprise you for hardness.

**TO PRESERVE BUTTER.**—Take two quarts of best common salt, one ounce of sugar, one ounce saltpetre, all finely pulverized and d.y; then thoroughly mix the whole together, and take one ounce of the mixture for each pound of butter, work well into the mass and close it up for use.

It should be remembered that butter thus prepared requires to stand a month before it is ready for use. If it is sooner opened the salt is not sufficiently blended with it, and sometimes the coolness of the saltpetre will be perceived, which totally disappears afterwards.

Butter being prepared for immediate use, had better be put up without the saltpetre, but the sugar in the proportions above given, may be used with great advantage, as the sugar gives butter an extra good flavor, and has a tendency to keep it sweet, and prevent its becoming rancid.

**PRACTICAL DIRECTIONS FOR MAKING BREAD.**—As most of the ingredients for raising bread, as yeast powders, &c., are becoming scarce, I think a good recipe given to housekeepers not out of the way.

Take about eight or ten middling sized Irish potatoes, pare and cut them very fine, then set them on to cook with about three times as much water as will cover them. When done, mash them fine in the same water, then add flour enough to make a thick batter. Remember the flour must be put in while the water is boiling hot, let it then cool off until about lukewarm, and then add a little piece of sour dough, say a teaspoonful to start with. Of course, after the housekeeper has once made this yeast, she can always keep a little of the old to add to the new. If kept in a warm place, it will be fit for use in about six hours. Add plenty of this to your flour, and you will have the lightest and best tasted bread that you would wish for.

**PRESERVING BUTTER.**—A patent has been secured by W. Clark, of London, for the following method of preserving butter. The butter is first well beaten in the usual manner after churning, then placed between linen cloths, and submitted to severe pressure for removing whey and water. It is now completely enveloped or covered with clean white paper, which is coated on both sides with a preparation of the white of eggs, in which fifteen grains of salt is used for each egg. This prepared paper is first dried, then heated before a fire, or with a hot iron, just prior to wrapping it round the butter. It is stated that butter may be kept perfectly sweet without any salt for two months, when thus treated, if placed in a cool, dry cellar. The submitting of butter to pressure as described, is a good plan, and one which we recommend to all our farmers. They can easily practice it with a small cheese press.

**STARCH OF HOME MANUFACTURE.**—Take a peck of unground wheat of the best quality, pick and soak it carefully. Next put into a tub; pour on sufficient clear, soft water to cover it, and then set it in the sun. Be sure to change the water every day, keeping it in the sun as much as possible, or an equally warm place in the house, should the weather prove unfavorable. When all the grains of wheat have become quite soft, rub it well in your hands, and separate it from the husks, which must be thrown into another tub. Let the soft wheat settle in a mass, and then pour off the water and put on fresh; stir it well, and let it settle again. Repeat this every day, till the last water comes off clear and colorless. Then pour the water finally off. Take the starch out of the tub, collect it in a thin bag, and hang it for a few days in the sun; after which spread on dishes or a sheet to dry.

**SALTING AND SMOKING MEAT.**—The following method, which requires only forty-eight hours, may be adopted for salting and smoking meat: A quantity of saltpetre, equal to the common salt that would be required for the meat in the usual way, must be dissolved in water. Into this the meat to be smoked must be put, and kept over a slow fire till all the water is evaporated. It must then be hung up in a thick smoke for twenty-four hours; when it will be found equal in flavor to the best Hamburg smoked meat that has been kept several weeks in salt, as red throughout and equally firm.

**INDIAN SLAP-JACKS.**—Scald a quart of Indian meal—when luke-warm, stir in a half a pint of flour, half a tea-cup of yeast and a little salt. When light, fry them in just fat enough to prevent their sticking to the frying-pan. Another method of making them, which is very nice, is to turn boiling milk or water on the Indian meal, in the proportion of a quart of the former to a pint of the latter—stir in three table-spoonfuls of flour, three eggs well beaten, and a couple of tea-spoonfuls of salt.

## GARDENER'S CHRONICLE.

**JANUARY.**—Sow peas, spinach, lettuce, cabbages, radishes, parsley, beets, carrots, salsafy, parsnips, turnips, asparagus. Plant horse radish, Irish Potatoes. Transplant cabbages and lettuce.

**FEBRUARY.**—Sow peas, spinach, lettuce, cabbage, radishes, corn, beets, carrots, salsafy parsnips, turnips, thyme, sage, and other plants. Plant Irish potatoes Transplant cabbage and lettuce.

*Remarks.*—The same varieties of pease may be sown this month as were directed for the ast. The principal crop of beets and carrots should now be sown. The common varieties of pinach should be sown in small quantities once in ten days, as it soon runs to seed.

**MARCH.**—Sow carrots, beets, Swiss chard, parsnips, salsafy, cabbages, spinach, turnips, oak tomatoes, peppers, Guinea squash. Plant cucumbers, okra, squashes, snap beans, cushaw, sewee beans, New Zealand spinach. Transplant tomatoes, peppers, Guinea squash cabbages and lettuce.

*Remarks.*—All the above vegetables should be got in at as early a period as possible. Carrots should now be sown for a full crop, and from English seed. Lettuce should remain where it is sown. New Zealand spinach should be sown in hills, three feet apart each way. Radishes should be sown every three weeks. All Irish potatoes should be planted this month.

**APRIL.**—Sow carrots, beets, salsafy, turnips, cabbages, cauliflowers, brocoli, tomatoes, peppers, radishes, lettuce, celery, leeks. Plant okra, snap beans, squashes, sewee beans, cucumbers, cushaws, melons. Transplant cabbages, tomatoes, peppers, Guinea squashes. Pick out celery.

*Remarks.*—The sowing of the main crop of carrots for summer and autumn, ought not to be delayed longer than this month, as they will be easily killed when up. The seed should be from Europe, or they will run to seed in the Fall. Cucumbers, squashes, and melons, do not succeed well if delayed until now, but a few may be sown.

**MAY.**—Sow cabbages, savoys, carrots, beets, turnips, cauliflowers, brocoli, celery, radishes. Plant snap beans. Transplant cabbages. Pick out celery.

*Remarks.*—There is little probability of either beets, parsnips, carrots, or turnips succeeding at this season, especially the last; yet if wanted, a few may be ventured under very favorable circumstances, they may succeed. If carrots be sown, the ground should be shaded and kept moist, and this continued to the plants sometime after they are up, or they will be killed by the hot sun.

**JUNE.**—Sow cauliflowers, brocoli, cabbages, carrots, tomatoes. Plant snap beans, okra. Transplant celery, cabbages, leeks. Pick out cauliflowers, brocoli, and celery.

*Remarks.*—This month is generally very dry and hot, and all the crops recommended to be sown now, must be protected from the sun: most of them should have been sown in April, and it is only in case of failure or omission that they should now be sown: the month may be considered bad for the sowing of seeds generally.

**JULY.**—Sow early Dutch turnips, ruta бага, carrots, parsnips, cabbages, cauliflowers, brocoli, endive, radishes, spinach. Plant snap beans, Irish potatoes, melons. Transplant cabbages, celery, cauliflowers, brocoli, tomatoes, and leeks.

*Remarks.*—A few only of carrots, parsnips, spinach, or radishes, should be sown as it is not very probable that they will succeed, unless well protected from the sun for some length of time, while young. The early Dutch turnips should also be sown towards the middle and last of the month, in small quantities. The Irish potatoes will be fit for use in October, and the tomatoes, will furnish a supply when the spring-grown crop has ceased to bear, and then continue till killed by a frost.

**AUGUST.**—Sow peas, early Dutch and other varieties of turnips, ruta бага, onions, cabbages, cauliflowers, brocoli, black Spanish radishes, carrots, beets, parsnips, salsafy, lettuce, and endive. Plant snap beans. Transplant cabbages, cauliflowers, brocoli, celery, ruta бага, endive.

*Remarks.*—Not much can be expected from peas sown this month, as they will be much crippled by the high winds and rain which we usually have; but if much wanted a few may be ventured. The beets and spinach are liable to the attacks of the worms, which destroy their leaves: should they escape these they will be fine.

**SEPTEMBER.**—Sow early Dutch and other varieties of turnips, ruta бага, beets, Swiss chard, mangle wurzle, carrots, parsnips, salsafy, lettuce, spinach, cabbages, onions, radishes, endive. Plant snap beans. Transplant ruta бага, cabbages, cauliflowers, brocoli, celery, lettuce, leeks, endive.

**OCTOBER.**—Sow cabbages, lettuce, carrots, beets, turnips, radishes, spinach, salsafy, parsnips, ruta бага. Transplant cabbages, cauliflowers, brocoli, onions, lettuce, leeks, and endive.

**NOVEMBER.**—Sow peas, cabbages, radishes, carrots, spinach, turnips, parsnips, lettuce, beets, salsafy. Plant mazarin and Windsor beans. Transplant cabbages, lettuce, onions, and leeks.

**DECEMBER.**—Sow peas, spinach, radishes, lettuce, cabbages, salsafy, carrots, beets, parsnips, Plant Irish Potatoes, mazarin and Windsor beans. Transplant cabbages, lettuce and onions.



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