

GRIER'S SOUTHERN

ALMANAC

FOR THE STATES OF

MISSISSIPPI,
SOUTH CAROLINA,
GEORGIA,



ALABAMA, TENNESSEE,
LOUISIANA,

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 I. P. ASHMORE, of AMERICUS, GA.

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SIGNS OF THE ZODIAC AND INFLUENCE OF THE MOON

The Moon is supposed by some to have a special influence upon different parts of the bodies of men and animals, as it passes through the signs of the Zodiac. The following cut is inserted for the sake of those who believe in this imaginary influence, and is intended to represent the part of the body affected by the Moon when it is in any particular sign of the Zodiac. By finding the Moon's place in the proper column of the calendar pages, and comparing it with this cut, the particular part which is supposed to be affected, will be at once seen. Thus, when the Moon is in Aries (♈), it is supposed to influence the head and face; when in Capricornus (♐) the knees, etc.

♈ Governs the FACE and HEAD.



NAMES AND CHARACTERS OF THE SIGNS OF THE ZODIAC.

♈ Aries, the Ram. ♉ Taurus, the Bull. ♊ Gemini, the Twins. ♋ Cancer, the Crab. ♌ Leo, the Lion. ♍ Virgo, the Virgin. ♎ Libra, the Balance. ♏ Scorpio, the Scorpion. ♐ Sagittarius, the Archer. ♑ Capricornus, the Goat. ♒ Aquarius, the Waterman. ♓ Pisces, the Fishes.

CHRONOLOGICAL CYCLES.

Dominical Letter,	D.	Solar Cycle,.....	24
Golden Number,	2	Roman Indiction,.....	6
Epoct, (Moon's age,) Jan. 1st.....	11	Julian Period.....	6576

MOVEABLE FEASTS OF THE CHURCH.

Septuagesima Sunday	Feb. 1	Rogation Sunday,	May 10
Quin. or Shrove Sunday,	Feb. 15	Ascension Day,	May 14
Ash-Wednesday,	Feb. 18	Whit-Sunday,	May 4
Palm Sunday,	Mar. 29	Advent Sunday	Nov 29
Easter Sunday.	April 5		

ECLIPSES FOR 1863.

The first will be of the Sun, on the 17th of May, at 11h. 15m. A. M., visible 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.	M.	SEC.	
The Eclipse begins on June	1	4	17	28	} P. M.
Beginning of total darkness	"	5	24	25.	
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	38	16.	
Duration of visibility	"	6	37	16.	

The third will be of the Sun, on the 11th of Nov., at 2h. 36m. A. M., visible 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.	M.	SEC.	
Beginning at Augusta, Ga.,	Nov. 25	1	57	14.	} P. M.
Middle of Eclipse	"	3	37	53.	
Ecliptic Opposition	"	2	43	21.	
End of Eclipse	"	5	18	22.	
Duration	"	8	21	18.	

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

At the greatest observation, 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 25th, 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. ♏ Scorpio.
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 Dis-	Revolu-	Revolu-	Veloci-	Size—the	Densi-	Light,
	Diame-	tance from	tion at d	tion on	ty per		Earth	
	ter.	the Sun.	the Sun.	on Axis.	m. in	being 1.	Earth	Earth
	Miles.	Miles.	ysr. days	d. h. M.	Miles.		'g	'g
THE SUN...	\$83,216			25 9 59		1,412,921,101	0.252	Infin-
Mercury...	3,224	36,814,000	88	1 0 5	1,827	0,053	1.129	6.680
Venus...	7,687	68,787,000	224	23 21	1,338	0,900	0.923	1.911
The Earth...	7,912	95,103,000	1	23 56	1,138	1,000	1.000	1.000
The Moon...	2,180	95,103,000	1	27 7 43	38	0,020	0.615	1.000
Mars...	4,189	144,908,000	1	321 1 0 37	921	0,125	0.945	0.431
Jupiter...	80,170	494,797,000	11	215 9 56	496	1,456,000	0.278	0.837
Saturn...	79,042	907,168,000	29	167 10 29	368	771,000	0.138	0.011
Uranus...	35,112	1,824,290,000	84	6 1 13 33	259	89,000	0.242	0.008
Neptune...	41,500	2,854,093,000	164	236	208	143,000	0.140	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 exactly the same time; and hence, Apparent Time is irregular, and sometimes falls behind Mean Time, or gains on it, sometimes to the amount of 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 APOGEE—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. ABBOTT

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		MOON'S PLACE.	Moon		
			rises	sets		ri	& sts	High tide Savannah.
			H. M.	H. M.		H. M.	H. M.	H. M.
1	Thur	New Year's Day. Cold	7	4 45	♄	4	5	5 55
2	Frid	☉ in Perigee and	7	3 45	♄	5	0	7 10
3	Satur	☾ highest chilly weather	7	3 45	♄	5	50	8 3
4	S.	Princeton Battle, 1777.	7	3 45	♄	rises. 9 0		
5	Mon	☉ Cloudy and	7	2 45	♄	6	15	9 45
6	Tues	Epiphany. cold.	7	2 45	♄	7	8	10 26
7	Wed		7	2 45	♄	8	20	11 2
8	Thur	Bat. N. Orleans, 1815.	7	1 45	♄	9	13	11 38
9	Frid	Fair and frosty.	7	1 45	♄	10	18	E. 14
10	Satur	Aldebaran sou 9h 8m.	7	0 5	♄	11	25	0 47
11	S.	Ala. & Fla. seced., '61.	7	0 5	♄	morn. 1 24		
12	Mon	Now more pleasant.	6	59	♄	0	39	2 2
13	Tues	Richard II. killed, 1490.	6	59	♄	1	40	2 46
14	Wed	N. E. Winds	6	58	♄	2	50	3 47
15	Thur	and any	6	58	♄	3	46	5 6
16	Frid	☾ lowest	6	57	♄	4	46	6 21
17	Satur	Bat. Cowpens, 178	6	57	♄	5	30	7 30
18	S.	flying clouds.	6	56	♄	6	31	8 10
19	Mon	Capella sou. 9h. 11m.	6	55	♄	sets. 9 2		
20	Tues	☉ enters ♁ Goosec '61,	6	55	♄	6	30	9 45
21	Wed	High winds from	6	54	♄	7	34	10 25
22	Thur	Rigel sou. 8h. 48m.	6	54	♄	8	25	11 5
23	Frid	N. W. and cold.	6	53	♄	9	21	11 45
24	Satur	Augusta arsenal tak '61	6	52	♄	10	10	Morn.
25	S.	Cold and	6	51	♄	11	8	0 25
26	Mon	Sirius sou. 10h. 16m.	6	51	♄	morn. 1 13		
27	Tues	Cloudy.	6	50	♄	0	7	1 59
28	Wed	Perhaps snow	6	49	♄	1	8	2 57
29	Thur	Prof F. C. Bond died 59.	6	48	♄	2	2	4 9
30	Frid	☾ highest.	6	48	♄	2	56	5 34
31	Satur	or sleet.	6	47	♄	3	06	58

Handwritten notes:
 1863
 1863
 1863

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.	Various Phenomena.	Sun	Sun	MOON'S RAYS RISE & SET.	Moon	High tide	
of	of		rise	sets		ri. st.	day	night
M	W		H. M.	H. M.		H. M.	H. M.	
1	S.	Septuagesima S.	6 46	5 14	♄	4 20	5 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	12 15	
9	Mon.		6 39	5 21	♋	11 30	0 44	
10	Tue.	Pre. Gov. Con. Stat. '61.	6 38	5 22		11 59	1 23	
11	Wed.	Revolution in Domingo.	6 37	5 23		morn.	2 4	
12	Thu.	☾ lowest. [1807.]	6 36	5 24	♉	0 36	2 38	
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.	Quinquag. Sun.	6 34	5 26		3 26	6 47	
16	Mon.	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 29	
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	Mon.	<i>some rain.</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	♑	2 36	5 16	

days
Sat
the 11

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 of clear glass, whose weight is 13 ounces?

D.	D of M	D of W	Various Phenomena.	Sun	Sun	MOON'S PLACE.	Moon		High tide	
				rises	sets		ri.	& sets	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		p 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	♌ 8	♌ 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. 9h. 53 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		q 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. 9h. 26m.	5 51	6 9	♈	2	20	6	11
31	Tues		Calhoun died, 1850.	5 50	6 10		3	45	7	16

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

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	D	Various Phenomena.	Sun rises	Sun sets	MOON PLACE	MOON ri. & st.	High tide Savannah
M	W		H. M.	H. M.		H. M.	H. M.
1	Frid	St. Philip & St. James.	5 20	6 40		4 52	8 0
2	Satur	Warm and dry	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 42		8 0	9 53
5	Tues	Moon lowest. Damp	5 16	6 44	☾	8 50	10 25
6	Wed	Humboldt died '59.	5 15	6 45		9 41	10 59
7	Thur	and much	5 15	6 45	☉	10 36	11 32
8	Frid	cloudy weather.	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	Rain with	5 12	6 48		0 46	2 32
12	Tues	Antares sou 1h 0m.	5 11	6 49	☽	1 32	2 46
13	Wed	thunder.	5 10	6 50		2 25	4 59
14	Thur	Ascension day.	5 9	6 51	☽	3 20	6 4
15	Frid	Now we may	5 9	6 51		4 41	7 6
16	Satur	expect	5 8	6 52		5 58	8 1
17	S.	Sun eclipsed invisible.	5 7	6 53	☾	sots.	8 51
18	Mon	a fine growing	5 7	6 53		8 2	9 44
19	Tues	Moon highest.	5 6	6 54	☽	8 51	10 32
20	Wed	Sun enters ☽ season.	5 5	6 55		9 40	11 16
21	Thur	till the end	5 5	6 55	☽	10 36	Morn.
22	Frid	of this	5 4	6 56		10 50	0 16
23	Satur	Irish rebellion com. '93.	5 4	6 56	☽	11 31	0 59
24	S.	Whit Sunday.	5 3	6 57		11 58	1 38
25	Mon	Whit Monday. month.	5 3	6 57	☽	morn.	2 30
26	Tues	John Calvin died, 1564.	5 2	6 58		0 52	3 28
27	Wed	Fair	5 2	6 58		1 47	4 35
28	Thur	and pleasant	5 1	6 59	☽	2 35	5 37
29	Frid	Gen. Putnam died, '90.	5 1	6 59		3 21	6 36
30	Satur	lex. Pope died, 1741.	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.

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.	D	Various Phenomena.	Sun	Sun	MOON'S PLACE.	Moon		High tide	
of	of		rises,	sets		ri	& sts	Savanant	ant
M	W		A.M.	P.M.		H.	M.	H.	M.
1	Mon	Moon eclipsed visible.	4 59	7 1	V	rises.	8 54		
2	Tues	Moon lowest. Pleasant	4 59	7 1		8 0	9 20		
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 '43.	4 57	7 3	∩	Morn.	1 20		
9	Tues	S. E. 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	<i>Warm</i>	4 56	7 4		3 25	5 35		
13	Satur	<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 4		
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	g lowest. St. Peter.	4 56	7 4	♁	8	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.

	P.	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	33 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.	D	Various Phenomena.	Sun	Sun	MOON'S PLACE	Moon	High tide
M.	W		rises	sets		ri. & sets	Savannah
			P. M.	H. M.		P. M. N. 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 40
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 21	11 3
5	S.	Bat. Cheat Mount. '61.	4 58	7 2		10 41	11 42
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 07	0 0	♁	4 0	6 30
13	Mon	<i>vivid lightning.</i>	5 07	0 0		4 38	7 37
14	Tues	Moon highest.	5 16	59	♁	5 0	8 33
15	Wed	Antares sou 8h 44m.	5 16	59		sets.	9 23
16	Thur	Hogira begins 622.	5 26	58	♁	7 38	10 8
17	Frid	Elbridge Gerry b. 1739.	5 26	58		8 26	10 48
18	Satur	Bat. Bull Run, 1861.	5 36	57	♁	9 15	11 24
19	S	Congress met at Rich'd	5 36	57		10 0	11 59
20	Mon	Vega sou 10h 36m. ['61	5 46	56	≈	10 48	Morn.
21	Tues	Bat. Manassas 1861.	5 56	55		11 21	0 36
22	Wed	Sun enters ♏.	5 56	55	♁	11 59	1 13
23	Thur	<i>Warm</i>	5 66	54		morn.	1 53
24	Frid	<i>and</i>	5 66	54	♁	0 48	2 34
25	Satur	St. James. <i>dry</i>	5 76	53		1 38	3 35
26	S.	St. Anne <i>weather.</i>	5 86	52		2 40	4 49
27	Mon	Moon lowest.	5 86	52	♁	3 44	6 2
28	Tues	Dog days begin.	5 96	51		4 56	7 8
29	Wed	<i>Rainy and</i>	5 106	50	≈	6 0	8 1
30	Thur	<i>stormy.</i>	5 116	49		rises.	8 45
31	Frid	Fomalhaut sou 2h 13m.	5 116	49	⊕	8 21	9 26

8th Month,]

AUGUST 1863

[31 Days.

MOON'S PHASES.

	D.	H.	M.
Last Quarter	6	9	23 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	Various Phenomena.	Sun	Sun	S MOON PLACE.	Moon H ^o T ^{id} -	ri & sts Savannah	
M	W		rise	sets		H.	M.	H.
1	Satur	Lainnac Day.	5 12	6 45		9 10	10	5
2	S.	<i>Sixeltry 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	27
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 43	7	30
12	Wed	George IV. born, 1762.	5 21	6 39	☾	5 55	8	23
13	Thur	<i>Now we may</i>	5 22	6 38		6 10	9	10
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	22
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	☽	Rizes.	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. H.

Last Quarter	4	11	13	eve.
New Moon	12	11	29	ave.
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	sets	SAVANNAH	
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'rs 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. Euaw, 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	15
10	Thur	Bat. Lake Erie, 1813.	5 48	6 12		4	15	8	6
11	Frid	<i>Cloudy and</i>	5 49	6 11	♂	5	25	8	40
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	36
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 00	6 0		1	32	3	10
23	Wed	Sun enters ♃. Days and	6 15	59		2	37	4	36
24	Thur	[nights equal.	6 25	58	♃	3	46	5	54
25	Frid	Fomalhaut sou. 10h 29m	6 35	57		4	28	7	1
26	Satur	<i>be expected fair.</i>	6 45	56	♃	5	29	7	49
27	S.	Arctic lost, 1854.	6 55	55		rises.	8	38	
28	Mon	Detroit retaken, 1813.	6 65	54		7	21	9	12
29	Tues	♀♂ Sun Inferior.	6 75	53	♄	8	16	9	55
30	Wed	♂♂ Sun. St. Jerome.	6 85	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. of M.	D of W	Various Phenomena.	Sun	Sun	MOON'S PLACE.	Moon		High tide	
			rises	sets.		ri	sets	Savannah	
			P. M.	P. M.		P.	M.	P.	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 Schleitz, 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	25
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	58
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.	* 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. Judo.	6	35 5 25		7	58	9	25
29	Thur	<i>unsettled.</i>	6	36 5 24	♏	8	43	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

11th Month.]

NOVEMBER, 1863.

[30 Days.

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.	D	Various Phenomena.	Sun	Sun	MOON'S PLACE.	Moon		H. Tide	
			rises	sets		ri	sets	SAVAN	NAH.
M	W		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	35
3	Tues	<i>Fair and Cool.</i>	6.40	5 20		morn.	2	3	
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	3	0
6	Frid	Leonard. <i>Cloudy</i>	6.43	5 17		2	36	6	17
7	Satur	Bat. Belmont, 1861.	6.44	5 16	♎	3	34	7	11
8	S.	Transit of γ , 1848.	6.45	5 15		4	31	7	54
9	Mon	<i>and Damp.</i>	6.46	5 14	♏	5	21	8	32
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 des'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	2
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	55	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 05	0 0	♍	9	39	eve.	29

MOON'S PHASES.

	D.	H.	M.	
Last Quarter	3	3	53	mo.
New Moon	16	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't o	
			rises	sets		ri.	sets	Sovannh	
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		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	25	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	2
9	Wed	<i>unpleasant Weather.</i>	7	34 57		5	58	8	48
10	Thur	Moon lowest.	7	34 57	☾	sets.		9	21
11	Frid	Gt. Fire Charleston, '61.	7	44 56		5	56	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	43	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; C. 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. L. Campbell, Secretaries Ex. Depart't; N. C. Barnett, Sec. State; Peterson Thweatt, Com. 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. Mannerlyn,	7th do R. P. Trippe,
3d do Hines Holt,	8th do L. J. Gartrell,
4th do A. H. Kenan,	9th do Hardy Strickland,
5th do D. W. Lewis,	10th do A. R. Wright.

GOVERNMENT OF ALABAMA,

Capitol—MONTGOMERY.

Area—50,728 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.	Hamersville
Baker.....	2d do May and Nov.	Tues aft 1st Mon Jan July.	Newnan
Baldwin.....	4th do Feb. and Aug.	3d Monday May and Nov.	Milledgeville
Banks.....	Thurs af 1st Mon Apl & Oct.	1st do Feb and Aug.	
Berrien.....	Monday after Super. Court in twin.	2d do	Nashville
Bibb.....	21 Monday May and Nov.	last do	Feb, 4th Mo. Aug
Brooks.....	2d do Dec and June	3d do	Feb and Aug.
Bryan.....	Day after 3d Mon Apl 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.
Burke.....	3d Monday May and Nov	1st do	Jan and July
Butts.....	2d do Mar and Sept	2d do	Jan and July.
Oathoun.....	4th do May and Nov	3d do	May and Nov
Cameron.....	3d do April and Oct	1st do	Jan and June.
Campbell.....	2d do Feb and Aug	3d do	June and Dec.
Carroll.....	1st do April and Oct;	4th do	June and Dec.
Cass.....	2d do Mar and Sept.	4th do	May and Nov.
Catoosa.....	2d do May and Nov.	4th do	Jan and July
Chatham.....	2d do Jan and May	3d do	Feb and July
Chattahoochee.	3d do May and Nov	3d do	Feb and Aug.
Chattooga.....	1st do Mar and Sept	4th do	May and Nov.
Cherokee.....	1st do do do	2d do	June and Dec.
Chorlton.....	2d do April and Oct.	1st do	Feb and Sept.
Clarke.....	1st do Feb, 2d Mo. Au	4th do	April and Oct.
Clay.....	4th do Mar and Sept.	4th do	Jan and July.
Clayton.....	1st do May and Nov.	1st do	Feb and July
Clinch.....	4th do Mar and Sept.	3d do	Jan and July.
Cobb.....	3d do do do	3d do	June and Dec
Coffee.....	2d do do do	1st do	May and N. v.
Columbia.....	1st do do do	1st do	Feb and July
Colquitt.....	last do in May, and Monday after 4th Mon Nov	1st do	Jan and July.
Coweta.....	1st do Mar and Sept	1st do	June and Dec
Crawford.....	1st do do do	3d do	Jan and Jul
Dade.....	4th do May and Nov.	1st do	Mar and Sept.
Dawson.....	2d do Feb and Aug.	1st do	June and Dec.
Decatur.....	4th do April and Oct.	2d do	Jan and July.
DeKalb.....	4th do do do	3d do	Jan and July.
Dooly.....	1st do do do	3d do	June and Dec.
Dougherty.....	1st do June and Dec.	1st do	Mar and Sept.
Early.....	1st do April and Oct.	3d do	June and Dec.
Echols.....	Mon aft 4th Mon Mar Sept.	Mon aft inf Court in Clinch	
Edgingham.....	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.
Emanuel.....	1st do April and Oct	1st do	do do
Fannin.....	2d do May and Oct.	2d do	do do
Fayette.....	2d do Mar and Sept.	3d do	Jan and June.
Floyd.....	3d do Jan & 1st Mo July	2d do	April and Oct.
Forsyth.....	2d do Feb and Aug.	3d do	do do
Franklin.....	1st do April and Oct.	4th do	Jan and July.
Fulton.....	1st do do do	3d do	June and Dec.
Gilmer.....	1st do May and Oct.	2d do	Jan, 1st Mon July
Glascock.....	3d do Feb and Aug.	4th do	May and Nov.
Glynn.....	4th do April and Oct.	2d do	Jan and June.
Greene.....	2d do Mar and Sept.	2d do	June and Dec.
Gordon.....	1st do April and Oct.	4th do	Jan and July.
Gwinnett.....	1st do Mar & 2d Sept	1st do	Jan and Dec.
Habersham.....	Thurs af 4th Mon Mar Sept	2d do	Jan and July.
Hall.....	2d Monday Mar and Sept.	4th do	do do
Hancock.....	2d do April and Oct.	1st do	Feb and Aug.
Haralson.....	3d do do do	2d do	Jan and July.

Superior and Inferior Courts of Georgia, Continued.

COUNTIES.	SUPERIOR COURTS.	INFERIOR COURTS.	CO TOWNS.
Bacon	21 Monday April and Oct	21 Monday Jan and July	Hamilton
Bart	3d do March and Sept	8d do June and Dec	Hartwell
Beard	2d do April and Oct	2d do Jan and July	Franklin
Berry	24 do April and Sept	4th do Feb and Aug	M. Donough
Houston	4th do do do	4th do Jan and July	Ferry
Brown	Thurs aft Sup Court Teifair	4th do Jan 1st M. July	Irwinville
Jackson	4th Monday Feb and Aug	2d do Jan and July	Jefferson
Jasper	4th do April and Oct	4th do do do	Monticello
Jefferson	24 do May and Nov	21 do do do	Louisville
Johnson	4th do Mar and Sept	2d do April and Oct	
Jones	1st do April and Oct	4th do Jan and July	Clinton
Laurens	2d do do do	1st do Jan and Dec	Dublin
Lee	4th do March and Sept	4th do Jan and July	Starkesville
Liberty	3d Monday Mar and Nov	2d do Jan and July	Hirsville
Lincoln	4th Monday April and Oct	1st do Feb and July	Lincolnton
Lowndes	1st do June and Dec	1st do Feb and Aug	Troup
Lumpkin	1st do Feb and Aug	3d do June and Dec	Dalhousie
Macon	2d do March and Sept	1st do Feb and July	Oglethorpe
Madison	1st do do do	2d do Jan and July	Danielsville
Marion	1st do do do	2d do May and Nov	Buona Vista
McIntosh	Tues aft 2d Mon April and Thursday aft 4th Mar Nov	31 do Jan and June	Darien
Meriwether	3d Monday Feb and Aug	4th do April and Oct	Gree Hill
Miller	2d do April and Oct	4th do March and Sept	Colquitt
Milton	4th do March and Sept	4th do June and Dec	Albaretta
Spitshell	2d do May and Nov	4th do Feb and Aug	Camilla
Monroe	4th do Feb and Aug	2d do June and Dec	Forsyth
Montgomery	Thurs aft 2d Mon April and Friday aft 2d Mar Oct	1st do Feb and Aug	Mt Vernon
Morgan	1st Monday Mar and Sept	1st do June and Dec	M. Dixon
Murray	3d do April and Oct	2d do Jan and July	Spring Place
Muscogee	4th do May and Sept	2d do March and Oct	Columbus
Newton	2d do March and Sept	4th do June and Dec	Covington
Oglethorpe	3d do April and Oct	4th do Jan and June	Lexington
Oswald	4th do Feb and Aug	2d do June and Dec	Dalys
Pickens	2d do March and Sept	3d do Jan and July	Jasper
Pierce	Thurs aft 1st Mon Mar Sept	2d do June and Dec	Blackshear
Pike	1st Mo Apr & Th aft 1 Mo Oct	1st do do do	Zebulon
Polk	4th Monday April and Oct	4th do do do	Cedar Town
Polk	2d do do do	4th do Jan 1st Mon July	Hawkinsville
Putnam	4th do Mar and Sept	3d do June and Dec	Latonton
Quitman	2d do May and Nov	2d do Feb and Aug	Georgetown
Rabun	4th do Mar and Sept	1st do Jan and July	Clayton
Randolph	1st Monday May and Nov	1st do Feb and Aug	Cuthbert
Richmond	2d do April and Oct	1st do June and Dec	Augusta
Schley	4th do April and Oct	4th do Jan and Aug	Elizaville
Schroder	1st do May and Nov	2d do Jan and July	Sylvania
Spalding	2d do May and Nov	31 do Feb and Aug	Griffin
Stewart	2d do April and Oct	1st do Feb and June	Lumpkin
Sumter	2d do do do	2d do Jan and July	Americus
Talbot	3d do March and Sept	3d do June and Dec	Talbotton
Taliaferro	4th do Feb and Aug	1st do do do	Crawfordsville
Tatnell	2d do Mar & 4th Mo Oct	2d do Feb and Aug	Reesville
Taylor	1st do April and Oct	2d do do do	Butler
Terrell	4th do May and Nov	4th do do do	
Telfair	Mid after Court in Winter	4th do Jan and July	Jacksonville
Thomas	1st Monday June and Dec	4th do Feb and Aug	Thomasville
Town	Th aft 2d Mon May & Oct	3d do June and Dec	Wassawee
Troup	21 Monday May and Nov	1st do Feb and Aug	Lawrence
Tripp	4th do March and Sept	4th do Jan and July	Marion
Union	2d do May and Oct	4th do June and Dec	Birsville
Upson	2d do May and Nov	1st do Feb and Aug	Thomaston
Walker	3d before 1st Mo Mar Sep	1st do May and Dec	LaFayette
Walton	2 & 3 Mon Feb & 3 Mo Aug	3d do May and Nov	Monroe
Ware	2d Monday Mar and Sept	31 do June and Dec	Wareboro

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	Warrent in Sandersville
Washington..	2d do Mar and Sept	4th do Jan and July	Waynesville
Wayne.....	Th after 3d Mon April Oct	2d do do	Preston
Webster.....	2d Monday March and Sept	2d do June and Dec	Mt Yonah
White.....	Thu af 2d Mon Mar & Sept	4th do Jan and July	Abbeville
Wilcox.....	4th do April and Oct	2d do May and Nov	Washington
Wilkes.....	4th do March and Sept	1st do Jan and July	Irwinton
Wilkinson....	1st do April and Oct	2d do do do	Dalton
Whitfield....	4th do do do	1st do do do	Isabella
Werth.....	2d do do do	1st do June and Dec	

SUPERIOR COURTS—CIRCUITS, JUDGES AND SOLICITORS.

BRUNSWICK CIRCUIT—App'ing, Camden, Charlton 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. Railway, Solicitor.

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

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

EASTERN CIRCUIT—Bryan, Kulloch, Chatham, Chatham, Bibb, Liberty McIntosh, Montgomery, Tatnall... W B Fleming, Judge; O C Wilson, Solicitor.

MIDDLE CIRCUIT—Burke, Columbia, Emanuel Jefferson, Johnson, Richmond, Scriven, 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.

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

SOUTHERN CIRCUIT—Borric, Brooks, Colquitt, Laurens Lowndes, Irwin, Pulaski, Telfair, Thomas, Wilcox... A H Hassell, Judge; S B Spewer, Solicitor.

MINT CIRCUIT—Butts, Henry, Monroe, Newton, Pike, Spalding, Upson... E. G. Cabiness, Judge; A. D. Hammond, Solicitor

CHEROKEE CIRCUIT—Cass, Oconee, 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 R Smith, Solicitor.

CHATTAHOOCHEE CIRCUIT—Harris, Marion, Milledge, Schley, Talbot, Taylor... F H Worell, Judge; J Peabody, Solicitor.

MACON CIRCUIT—Bibb Crawford Decatur, Fowles, Macon, Twiggs, Worth... Henry G Lamar, Judge; Theodorick W Mountfort, Solicitor.

BLUE RIDGE CIRCUIT—Cherokee, Cobb, Dawson, Fannin, Forsyth, Gilmer, Lumpkin, Milton, Polk, Spalding, 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, Judge.....	\$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 Mint Coweta, Blue Ridge, Cherokee and Tallapoosa Judicial Circuits, at Atlanta, on 4th Mon. in March and 2d 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 ye 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 saltpeter. After the pork is cured 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, wash them and press out the juice. To two gallons of juice add about one ounce of copperas 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 dry: 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, or 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.

PREPARING 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 and returning, 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 water, a small quantity of salt is used for each egg. This should be done in a dry wind, the 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 augmented wheat of the best quality peck 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.

—0—

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

FEBRUARY—Sow peas, spinach, lettuce, cabbage, radishes, corn, beets, carrots, salsify, 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 1st. The principal crop of beets and carrots should now be sown. The common varieties of spinach should be sown in small quantities once in ten days, as it soon runs to seed.

MARCH—Sow carrots, beets, Swiss chard, parsnips, salsify, cabbages, spinach, turnips, okra, tomatoes, peppers, Guinea squash. Plant cucumbers, okra, squashes, snap beans, onions, 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, salsify, turnips, cabbages, cauliflowers, brocoli, tomatoes, peppers, radishes, lettuce, celery, leeks. Plant okra, snap beans, squashes, sewee beans, cucumbers, cucumbers, 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, savoy, 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, carrot, 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 bage, 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 bage, onions, cabbages, cauliflowers, brocoli, black Spanish radishes, carrots, beets, parsnips, salsify, lettuce, and endive. Plant snap beans. Transplant cabbages, cauliflowers, brocoli, celery, ruta bage, 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 bage, beets, Swiss chard, mangle wuzle, carrots, parsnips, salsify, lettuce, spinach, cabbages, onions, radishes, endive. Plant snap beans. Transplant ruta bage, cabbages, cauliflowers, brocoli, celery, lettuce, leeks, endive.

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

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

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

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