

**Cycle of Priestly Courses from Calendrical Documents 4Q320 and 4Q321  
Course Year 1 of 6**

Year	Week	Course	Start		End		Appointed Times/Feasts	Moon Phases
			Month	Day	Month	Day		
1	1	<b>Gamul</b>	12	28	1	3		1: Full Moon
	2	Delaiah	1	4	1	10		
	3	Maaziah	1	11	1	17	14: Passover	17: New Moon
	4	Jehoiarib	1	18	1	24		
	5	<b>Jedaiah</b>	1	25	2	1	26: Waving of the Sheaf	30: Full Moon
	6	Harim	2	2	2	8		
	7	Seorim	2	9	2	15	14: Second Passover	
	8	Malchijah	2	16	2	22		17: New Moon
	9	Mijamin	2	23	2	29		
	10	<b>Hakkoz</b>	2	30	3	6		30: Full Moon
	11	Abijah	3	7	3	13		
	12	Jeshua	3	14	3	20	15: Feast of Weeks	16: New Moon
	13	Shecaniah	3	21	3	27		
	14	<b>Eliashib</b>	3	28	4	3		29: Full Moon
	15	Jakim	4	4	4	10		
	16	Huppah	4	11	4	17		15: New Moon
	17	Jeshebeab	4	18	4	24		
	18	<b>Bilgah</b>	4	25	5	1		28: Full Moon
	19	Immer	5	2	5	8	3: Feast of New Wine	
	20	Hezir	5	9	5	15		14: New Moon
	21	Happizzez	5	16	5	22		
	22	Pethahiah	5	23	5	29		27: Full Moon
	23	<b>Jehezkel</b>	5	30	6	6		
	24	Jachin	6	7	6	13		
	25	Gamul	6	14	6	20		14: New Moon
	26	Delaiah	6	21	6	27	22: Feast of New Oil	27: Full Moon
	27	<b>Maaziah</b>	6	28	7	3	29: Feast of Offering of Wood	
	28	Jehoiarib	7	4	7	10	1: Day of Memorial	
	29	Jedaiah	7	11	7	17	10: Day of Atonement	
	30	Harim	7	18	7	24	15: Feast of Tabernacles	12: New Moon
	31	<b>Seorim</b>	7	25	8	1		25: Full Moon
	32	Malchijah	8	2	8	8		
	33	Mijamin	8	9	8	15		12: New Moon
	34	Hakkoz	8	16	8	22		
	35	Abijah	8	23	8	29		25: Full Moon
	36	<b>Jeshua</b>	8	30	9	6		
	37	Shecaniah	9	7	9	13		11: New Moon
	38	Eliashib	9	14	9	20		
	39	Jakim	9	21	9	27		24: Full Moon
	40	<b>Huppah</b>	9	28	10	3		
	41	Jeshebeab	10	4	10	10		10: New Moon
	42	Bilgah	10	11	10	17		
	43	Immer	10	18	10	24		23: Full Moon
	44	<b>Hezir</b>	10	25	11	1		
	45	Happizzez	11	2	11	8		
	46	Pethahiah	11	9	11	15		9: New Moon
	47	Jehezkel	11	16	11	22		22: Full Moon
	48	Jachin	11	23	11	29		
	49	<b>Gamul</b>	11	30	12	6		
	50	Delaiah	12	7	12	13		9: New Moon
	51	Maaziah	12	14	12	20		
	52	Jehoiarib	12	21	12	27		22: Full Moon

**Notes:**

- The primary text utilized in determining the calendar and courses was *The Complete Dead Sea Scrolls* in English by Geza Vermes (ISBN 0-14-027807-9).
- Each course commences on the Sabbath so that there is no interruption of service; this is corroborated by 4Q322, 4Q323, and 4Q324.
- Missing information regarding full and new moon phases were extrapolated where applicable.
- 4Q325 and 4Q327 introduce three additional feasts: Feast of New Wine, Feast/Festival of New Oil, and Feast of the Offering of Wood. These were observed on the third day of the fifth month, the 22nd day of the sixth month, and the 29th day of the sixth month, respectively.
- The Levitical/Aaronic priesthood was instituted on the first Sabbath after the original Passover in Egypt (i.e., 18 Abib). According to 1 Chronicles 24:7-18, Jehoiarib would have been the first course to commence the six-year priestly cycle; this coincides with the empirical evidence highlighted above. The 22nd course of Gamul is in progress on 1 Abib in the first year of this cycle because it is actually nearing the end of the six-year cycle (or can be back-calculated from the first course of Jehoiarib on 18 Abib).

**Cycle of Priestly Courses from Calendrical Documents 4Q320 and 4Q321**

**Course Year 2 of 6**

Year	Week Course		Start		End		Appointed Times/Feasts	Moon Phases
	1	2	Month	Day	Month	Day		
1	Jedajah	12	12	28	1	3		7: New Moon
2	Harim	1	1	4	1	10		7: New Moon
3	Seorim	1	1	11	1	17	14: Passover	20: Full Moon
4	Malchijah	1	1	18	1	24		20: Full Moon
5	Mijamin	1	1	25	2	1	26: Waving of the Sheaf	7: New Moon
6	Hakkoz	2	2	2	2	8	14: Second Passover	7: New Moon
7	Abijah	2	2	9	2	15		20: Full Moon
8	Jeshua	2	2	16	2	22		20: Full Moon
9	Shecaniah	2	2	23	2	29		20: Full Moon
10	Eliashib	2	2	30	3	6		6: New Moon
11	Jakim	3	3	7	3	13		6: New Moon
12	Huppah	3	3	14	3	20	15: Feast of Weeks	19: Full Moon
13	Jeshbeab	3	3	21	3	27		19: Full Moon
14	Bilgah	3	3	28	4	3		5: New Moon
15	Immer	4	4	4	4	10		5: New Moon
16	Hezir	4	4	11	4	17		5: New Moon
17	Happizzez	4	4	18	4	24		18: Full Moon
18	Pethahiah	4	4	25	5	1		18: Full Moon
19	Jehzekel	5	5	2	5	8	3: Feast of New Wine	4: New Moon
20	Jachin	5	5	9	5	15		4: New Moon
21	Gamul	5	5	16	5	22		17: Full Moon
22	Delajah	5	5	23	5	29		17: Full Moon
23	Maaziah	5	5	30	6	6		4: New Moon
24	Jehoiarib	6	6	7	6	13		4: New Moon
25	Jedajah	6	6	14	6	20		17: Full Moon
26	Harim	6	6	21	6	27	22: Feast of New Oil	17: Full Moon
27	Seorim	6	6	28	7	3	29: Feast of Offering of Wood	2: New Moon
28	Malchijah	7	7	4	7	10	1: Day of Memorial	2: New Moon
29	Mijamin	7	7	11	7	17	10: Day of Atonement	15: Full Moon
30	Hakkoz	7	7	18	7	24	15: Feast of Tabernacles	15: Full Moon
31	Abijah	7	7	25	8	1		15: Full Moon
32	Jeshua	8	8	2	8	8		2: New Moon
33	Shecaniah	8	8	9	8	15		2: New Moon
34	Eliashib	8	8	16	8	22		15: Full Moon
35	Jakim	8	8	23	8	29		15: Full Moon
36	Huppah	8	8	30	9	6		1: New Moon
37	Jeshbeab	9	9	7	9	13		1: New Moon
38	Bilgah	9	9	14	9	20		14: Full Moon
39	Immer	9	9	21	9	27		14: Full Moon
40	Hezir	9	9	28	10	3		14: Full Moon
41	Happizzez	10	10	4	10	10		13: Full Moon
42	Pethahiah	10	10	11	10	17		13: Full Moon
43	Jehzekel	10	10	18	10	24		13: Full Moon
44	Jachin	10	10	25	11	1		29: New Moon
45	Gamul	11	11	2	11	8		29: New Moon
46	Delajah	11	11	9	11	15		12: Full Moon
47	Maaziah	11	11	16	11	22		12: Full Moon
48	Jehoiarib	11	11	23	11	29		29: New Moon
49	Jedajah	11	11	30	12	6		29: New Moon
50	Harim	12	12	7	12	13		12: Full Moon
51	Seorim	12	12	14	12	20		12: Full Moon
52	Malchijah	12	12	21	12	27		12: Full Moon

**Cycle of Priestly Courses from Calendrical Documents 4Q320 and 4Q321**

**Course Year 3 of 6**

Year Week Course	Start		End		Appointed Times/Feasts	Moon Phases
	Month	Day	Month	Day		
1	12	28	1	3		28: New Moon
2	1	4	1	10		10: Full Moon
3	1	11	1	17	14: Passover	
4	1	18	1	24		27: New Moon
5	1	25	2	1	26: Waving of the Sheaf	
6	2	2	2	8		10: Full Moon
7	2	9	2	15	14: Second Passover	
8	2	16	2	22		26: New Moon
9	2	23	2	29		26: New Moon
10	2	30	3	6		9: Full Moon
11	3	7	3	13	15: Feast of Weeks	
12	3	14	3	20		9: Full Moon
13	3	21	3	27		26: New Moon
14	3	28	4	3		8: Full Moon
15	4	4	4	10		24: New Moon
16	4	11	4	17		7: Full Moon
17	4	18	4	24		24: New Moon
18	4	25	5	1	3: Feast of New Wine	
19	5	2	5	8		7: Full Moon
20	5	9	5	15		24: New Moon
21	5	16	5	22		7: Full Moon
22	5	23	5	29		24: New Moon
23	5	30	6	6		7: Full Moon
24	6	7	6	13		23: New Moon
25	6	14	6	20		23: New Moon
26	6	21	6	27	22: Feast of New Oil	
27	6	28	7	3	29: Feast of Offering of Wood	
28	7	4	7	10	1: Day of Memorial	
29	7	11	7	17	10: Day of Atonement	
30	7	18	7	24	15: Feast of Tabernacles	
31	7	25	8	1		5: Full Moon
32	8	2	8	8		22: New Moon
33	8	9	8	15		5: Full Moon
34	8	16	8	22		21: New Moon
35	8	23	8	29		4: Full Moon
36	8	30	9	6		4: Full Moon
37	9	7	9	13		21: New Moon
38	9	14	9	20		21: New Moon
39	9	21	9	27		21: New Moon
40	9	28	10	3		3: Full Moon
41	10	4	10	10		19: New Moon
42	10	11	10	17		19: New Moon
43	10	18	10	24		2: Full Moon
44	10	25	11	1		2: Full Moon
45	11	2	11	8		19: New Moon
46	11	9	11	15		19: New Moon
47	11	16	11	22		2: Full Moon
48	11	23	11	29		2: Full Moon
49	11	30	12	6		18: New Moon
50	12	7	12	13		18: New Moon
51	12	14	12	20		
52	12	21	12	27		

**Cycle of Priestly Courses from Calendrical Documents 4Q320 and 4Q321**

**Course Year 4 of 6**

Year Week Course	Start		End		Appointed Times/Fests	Moon Phases
	Month	Day	Month	Day		
1	Shecaniah	12	28	1		1: Full Moon
2	Eliashib	1	4	1		17: New Moon
3	Jakim	1	11	1	14: Passover	17: New Moon
4	Huppah	1	18	1	26: Waving of the Sheaf	30: Full Moon
5	Jeshbeab	1	25	2	14: Second Passover	17: New Moon
6	Bilgah	2	2	2		30: Full Moon
7	Immer	2	9	2		17: New Moon
8	Hezir	2	16	2		17: New Moon
9	Happizzez	2	23	2		17: New Moon
10	Pethahiah	2	30	3		30: Full Moon
11	Jehezkel	3	7	3	15: Feast of Weeks	30: Full Moon
12	Jachin	3	14	3		16: New Moon
13	Gamul	3	21	3		16: New Moon
14	Deliah	3	28	4		29: Full Moon
15	Maaziah	4	4	4		15: New Moon
16	Jehoiarib	4	11	4		15: New Moon
17	Jedajah	4	18	4		28: Full Moon
18	Harim	4	25	5	3: Feast of New Wine	28: Full Moon
19	Seorim	5	2	5		28: Full Moon
20	Malchijah	5	9	5		14: New Moon
21	Mijamin	5	16	5		14: New Moon
22	Hakkoz	5	23	5		27: Full Moon
23	Abijah	5	30	6		27: Full Moon
24	Jeshua	6	7	6		14: New Moon
25	Shecaniah	6	14	6		14: New Moon
26	Eliashib	6	21	6	22: Feast of New Oil	27: Full Moon
27	Jakim	6	28	7	29: Feast of Offering of Wood	27: Full Moon
28	Huppah	7	4	7	1: Day of Memorial	12: New Moon
29	Jeshbeab	7	11	7	10: Day of Atonement	12: New Moon
30	Bilgah	7	18	7	15: Feast of Tabernacles	12: New Moon
31	Immer	7	25	8		25: Full Moon
32	Hezir	8	2	8		25: Full Moon
33	Happizzez	8	9	8		12: New Moon
34	Pethahiah	8	16	8		12: New Moon
35	Jehezkel	8	23	8		25: Full Moon
36	Jachin	8	30	9		25: Full Moon
37	Gamul	9	7	9		11: New Moon
38	Deliah	9	14	9		11: New Moon
39	Maaziah	9	21	9		24: Full Moon
40	Jehoiarib	9	28	10		24: Full Moon
41	Jedajah	10	4	10		10: New Moon
42	Harim	10	11	10		10: New Moon
43	Seorim	10	18	10		23: Full Moon
44	Malchijah	10	25	11		23: Full Moon
45	Mijamin	11	2	11		9: New Moon
46	Hakkoz	11	9	11		9: New Moon
47	Abijah	11	16	11		22: Full Moon
48	Jeshua	11	23	11		22: Full Moon
49	Shecaniah	11	30	12		9: New Moon
50	Eliashib	12	7	12		9: New Moon
51	Jakim	12	14	12		22: Full Moon
52	Huppah	12	21	12		22: Full Moon

**Cycle of Priestly Courses from Calendrical Documents 4Q320 and 4Q321**

**Course Year 5 of 6**

Year Week Course	Start		End		Appointed Times/Feasts	Moon Phases
	Month	Day	Month	Day		
1 Jeshbeab	12	28	1	3		
2 Bilgah	1	4	1	10		7: New Moon
3 Immer	1	11	1	17	14: Passover	7: New Moon
4 Hezir	1	18	1	24		20: Full Moon
5 Hapizzes	1	25	2	1	26: Waving of the Sheaf	20: Full Moon
6 Pethahiah	2	2	2	8		7: New Moon
7 Jehezkel	2	9	2	15	14: Second Passover	20: Full Moon
8 Jachin	2	16	2	22		20: Full Moon
9 Gamul	2	23	2	29		20: Full Moon
10 Delalah	2	30	3	6		6: New Moon
11 Maaziah	3	7	3	13		6: New Moon
12 Jehoiarib	3	14	3	20	15: Feast of Weeks	19: Full Moon
13 Jedajah	3	21	3	27		19: Full Moon
14 Harim	3	28	4	3		5: New Moon
15 Seorim	4	4	4	10		5: New Moon
16 Matchijah	4	11	4	17		18: Full Moon
17 Mijamin	4	18	4	24		18: Full Moon
18 Hakkoz	4	25	5	1		18: Full Moon
19 Abijah	5	2	5	8	3: Feast of New Wine	4: New Moon
20 Jeshua	5	9	5	15		4: New Moon
21 Shecaniah	5	16	5	22		17: Full Moon
22 Eliashib	5	23	5	29		17: Full Moon
23 Jakim	5	30	6	6		4: New Moon
24 Huppah	6	7	6	13		4: New Moon
25 Jeshbeab	6	14	6	20		17: Full Moon
26 Bilgah	6	21	6	27	22: Feast of New Oil	17: Full Moon
27 Immer	6	28	7	3	29: Feast of Offering of Wood	2: New Moon
28 Hezir	7	4	7	10	1: Day of Memorial	2: New Moon
29 Hapizzes	7	11	7	17	10: Day of Atonement	15: Full Moon
30 Pethahiah	7	18	7	24	15: Feast of Tabernacles	15: Full Moon
31 Jehezkel	7	25	8	1		15: Full Moon
32 Jachin	8	2	8	8		2: New Moon
33 Gamul	8	9	8	15		2: New Moon
34 Delalah	8	16	8	22		15: Full Moon
35 Maaziah	8	23	8	29		15: Full Moon
36 Jehoiarib	8	30	9	6		1: New Moon
37 Jedajah	9	7	9	13		1: New Moon
38 Harim	9	14	9	20		14: Full Moon
39 Seorim	9	21	9	27		14: Full Moon
40 Matchijah	9	28	10	3		14: Full Moon
41 Mijamin	10	4	10	10		13: Full Moon
42 Hakkoz	10	11	10	17		13: Full Moon
43 Abijah	10	18	10	24		13: Full Moon
44 Jeshua	10	25	11	1		29: New Moon
45 Shecaniah	11	2	11	8		29: New Moon
46 Eliashib	11	9	11	15		12: Full Moon
47 Jakim	11	16	11	22		12: Full Moon
48 Huppah	11	23	11	29		29: New Moon
49 Jeshbeab	11	30	12	6		29: New Moon
50 Bilgah	12	7	12	13		12: Full Moon
51 Immer	12	14	12	20		12: Full Moon
52 Hezir	12	21	12	27		12: Full Moon

**Cycle of Priestly Courses from Calendrical Documents 4Q320 and 4Q321**

**Course Year 6 of 6**

Year	Week Course		Month		Day		Appointed Times/Fasts	Moon Phases
	Start	End	Month	Day	Month	Day		
6	1	6	Happizzez	12	28	1		28: New Moon
	2		Pethahiah	1	4	1		10: Full Moon
	3		Jehzekel	1	11	1		10: Full Moon
	4		Jachin	1	18	1	14: Passover	
	5		Gamul	1	25	1	26: Waving of the Sheaf	27: New Moon
	6		Delalah	2	2	2		10: Full Moon
	7		Maaziah	2	9	2	14: Second Passover	10: Full Moon
	8		Jehoiarib	2	16	2		26: New Moon
	9		Jedajah	2	23	2		26: New Moon
	10		Harim	2	30	3		9: Full Moon
	11		Seorim	3	7	3	15: Feast of Weeks	9: Full Moon
	12		Malchijah	3	14	3		20: Full Moon
	13		Mijamin	3	21	3		26: New Moon
	14		Hakkoz	3	28	4		26: New Moon
	15		Abijah	4	4	4		8: Full Moon
	16		Jeshua	4	11	4		8: Full Moon
	17		Shecaniah	4	18	4		24: New Moon
	18		Eliashib	4	25	5	3: Feast of New Wine	24: New Moon
	19		Jakim	5	2	5		7: Full Moon
	20		Huppah	5	9	5		7: Full Moon
	21		Jeshbeab	5	16	5		24: New Moon
	22		Bilgah	5	23	5		24: New Moon
	23		Immer	5	30	6		24: New Moon
	24		Hezir	6	7	6		7: Full Moon
	25		Happizzez	6	14	6		7: Full Moon
	26		Pethahiah	6	21	6		23: New Moon
	27		Jehzekel	6	28	7	22: Feast of New Oil	23: New Moon
	28		Jachin	7	4	7	1: Day of Memorial	5: Full Moon
	29		Gamul	7	11	7	10: Day of Atonement	5: Full Moon
	30		Delalah	7	18	7	15: Feast of Tabernacles	22: New Moon
	31		Maaziah	7	25	8		22: New Moon
	32		Jehoiarib	8	2	8		5: Full Moon
	33		Jedajah	8	9	8		5: Full Moon
	34		Harim	8	16	8		21: New Moon
	35		Seorim	8	23	8		21: New Moon
	36		Malchijah	8	30	9		4: Full Moon
	37		Mijamin	9	7	9		4: Full Moon
	38		Hakkoz	9	14	9		21: New Moon
	39		Abijah	9	21	9		21: New Moon
	40		Jeshua	9	28	10		3: Full Moon
	41		Shecaniah	10	4	10		3: Full Moon
	42		Eliashib	10	11	10		19: New Moon
	43		Jakim	10	18	10		19: New Moon
	44		Huppah	10	25	11		19: New Moon
	45		Jeshbeab	11	2	11		2: Full Moon
	46		Bilgah	11	9	11		2: Full Moon
	47		Immer	11	16	11		19: New Moon
	48		Hezir	11	23	11		19: New Moon
	49		Happizzez	11	30	12		2: Full Moon
	50		Pethahiah	12	7	12		2: Full Moon
	51		Jehzekel	12	14	12		18: New Moon
	52		Jachin	12	21	12		18: New Moon

# Solar Calendar

Description below header

<b>Abib</b>						
1st	2nd	3rd	4th	5th	6th	Sab
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

<b>4th Month</b>						
1st	2nd	3rd	4th	5th	6th	Sab
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

<b>7th Month</b>						
1st	2nd	3rd	4th	5th	6th	Sab
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

<b>10th Month</b>						
1st	2nd	3rd	4th	5th	6th	Sab
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

<b>2nd Month</b>						
1st	2nd	3rd	4th	5th	6th	Sab
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

<b>5th Month</b>						
1st	2nd	3rd	4th	5th	6th	Sab
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

<b>8th Month</b>						
1st	2nd	3rd	4th	5th	6th	Sab
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

<b>11th Month</b>						
1st	2nd	3rd	4th	5th	6th	Sab
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

<b>3rd Month</b>						
1st	2nd	3rd	4th	5th	6th	Sab
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	SS				

<b>6th Month</b>						
1st	2nd	3rd	4th	5th	6th	Sab
1	2	3	4	5	6	7
8	9	10	11	12	13	14
5	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	AE				

<b>9th Month</b>						
1st	2nd	3rd	4th	5th	6th	Sab
1	2	3	4	5	6	7
8	9	10	11	12	13	14
5	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	WS				

<b>12th Month</b>						
1st	2nd	3rd	4th	5th	6th	Sab
1	2	3	4	5	6	7
8	9	10	11	12	13	14
5	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	VE				

Last Updated on 12/15/2000  
By Alan Schuetz of Baton Rouge, LA

## Solar Calendar based upon Calendrical Documents 4Q320 and 4Q321

	4th						7th						10th					
	1st	2nd	3rd	4th	5th	6th	1st	2nd	3rd	4th	5th	6th	1st	2nd	3rd	4th	5th	6th
<b>Abib</b>	1	2	3	4			1	2	3	4			1	2	3	4		
	5	6	7	8	9	10	5	6	7	8	9	10	5	6	7	8	9	10
	12	13	14	15	16	17	12	13	14	15	16	17	12	13	14	15	16	17
	19	20	21	22	23	24	19	20	21	22	23	24	19	20	21	22	23	24
	26	27	28	29	30		26	27	28	29	30		26	27	28	29	30	
<b>2nd</b>	1	2					1	2					1	2				
	3	4	5	6	7	8	3	4	5	6	7	8	3	4	5	6	7	8
	10	11	12	13	14	15	10	11	12	13	14	15	10	11	12	13	14	15
	17	18	19	20	21	22	17	18	19	20	21	22	17	18	19	20	21	22
	24	25	26	27	28	29	24	25	26	27	28	29	24	25	26	27	28	29
<b>3rd</b>	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6
	8	9	10	11	12	13	8	9	10	11	12	13	8	9	10	11	12	13
	15	16	17	18	19	20	15	16	17	18	19	20	15	16	17	18	19	20
	22	23	24	25	26	27	22	23	24	25	26	27	22	23	24	25	26	27
	29	30	SS				29	30	AE				29	30	VE			

**God's Appointed Times (as interpreted in 4Q320 and 4Q321)** [Leviticus 23]:

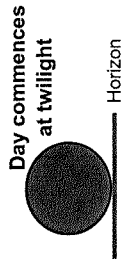
- 1. Sabbath (Shabbat) on the seventh day of every week [Leviticus 23:3].
- 14th of Abib = Passover (Pasach) [Leviticus 23:5].
- 15th through 21st of Abib = Unleavened Bread (Hag HaMatzah); the first and seventh days are holy convocations [Leviticus 23:6-8].
- 26th of Abib = Waving of the (Barley) Sheaf/Early Firstfruits (Bikkurim) [Leviticus 23:10-14].
- 14th of the Second Month = Second Passover [Numbers 9:10-14].
- 15th of the Third Month = Feast of Weeks/Pentecost/Latter Firstfruits (Shavuot/Yom HaBikkurim) [Leviticus 23:15-22].
- 1st of the Seventh Month = Day of Memorial/Feast of the Blowing (of Shofar) [Leviticus 23:24-25]. **Rosh Hashanah is a misnomer!**
- 10th of the Seventh Month = Day of Atonement (Yom Kippur) [Leviticus 23:27-32].
- 15th through 22nd of the Seventh Month = Feast of Tabernacles/Booths (Sukkot); the first and eighth days are holy convocations [Leviticus 23:34-43].

**Other Feasts:**

- 1. Feast of New Wine on the third day of the fifth month.
- 2. Feast of New Oil on the 22nd day of the sixth month.
- 3. Feast of Offering of Wood on the 29th day of the sixth month.

**Notes:**

- 1. The first month is Abib as is prescribed in Torah [Exodus 13:4]; this is corroborated by 4QpaleoExod.
- 2. Each month consists of 30 days except for the months culminating with equinoxes and solstices (that is, the 3rd, 6th, 9th, and 12th months).
- 3. An intercalary day added to the end of the third month accounts for the summer solstice; denoted as SS on the calendar.
- 4. An intercalary day added to the end of the sixth month accounts for the autumnal equinox; denoted as AE on the calendar.
- 5. An intercalary day added to the end of the ninth month accounts for the winter solstice; denoted as WS on the calendar.
- 6. An intercalary day added to the end of the twelfth month accounts for the vernal equinox; denoted as VE on the calendar.
- 7. Each quarter consists of thirteen complete weeks (52 weeks in a year) for a total of 364 days.
- 8. All appointed times fall on the same day of the week every year; in fact, each quarter represents a repetitive pattern.
- 9. A day commences when the sun's orb sets just on top of the horizon; aka "twilight" (see illustration).





# Lunar Cycles from the Calendrical Documents 4Q320 and 4Q321

## Lunar Cycle 1 of 3

	1st	2nd	3rd	4th	5th	6th	Sab
Abib				FM	2	3	4
	5	6	7	8	9	10	11
	12	13	(14)	(15)	16	NM	18
	19	20	(21)	22	23	24	25
	(26)	27	28	29	FM		
2nd					1	2	
	3	4	5	6	7	8	9
	10	11	12	13	(14)	15	16
	NM	18	19	20	21	22	23
	24	25	26	27	28	29	FM
3rd	1	2	3	4	5	6	7
	8	9	10	11	12	13	14
	(15)	NM	17	18	19	20	21
	22	23	24	25	26	27	28
	FM	30	SS				
4th				1	2	3	4
	5	6	7	8	9	10	11
	12	13	14	NM	16	17	18
	19	20	21	22	23	24	25
	26	27	FM	29	30		
5th					1	2	
	(3)	4	5	6	7	8	9
	10	11	12	13	NM	15	16
	17	18	19	20	21	22	23
	24	25	26	FM	28	29	30
6th	1	2	3	4	5	6	7
	8	9	10	11	12	13	NM
	15	16	17	18	19	20	21
	(22)	23	24	25	26	FM	28
	(29)	30	AE				

	1st	2nd	3rd	4th	5th	6th	Sab
7th				(1)	2	3	4
	5	6	7	8	9	(10)	11
	NM	13	14	(15)	16	17	18
	19	20	21	(22)	23	24	FM
	26	27	28	29	30		
8th						1	2
	3	4	5	6	7	8	9
	10	11	NM	13	14	15	16
	17	18	19	20	21	22	23
	24	FM	26	27	28	29	30
9th	1	2	3	4	5	6	7
	8	9	10	NM	12	13	14
	15	16	17	18	19	20	21
	22	23	FM	25	26	27	28
	29	30	WS				
10th				1	2	3	4
	5	6	7	8	9	NM	11
	12	13	14	15	16	17	18
	19	20	21	22	FM	24	25
	26	27	28	29	30		
11th						1	2
	3	4	5	6	7	8	NM
	10	11	12	13	14	15	16
	17	18	19	20	21	FM	23
	24	25	26	27	28	29	30
12th	1	2	3	4	5	6	7
	8	NM	10	11	12	13	14
	15	16	17	18	19	20	21
	FM	23	24	25	26	27	28
	29	30	VE				

Lunar Month	# of Days
1st	29
2nd	30
3rd	29
4th	30
5th	29
6th	30
7th	29
8th	30
9th	29
10th	30
11th	29
12th	30
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**Notes:**

1. Full moon is denoted as **FM**, and new moon is designated as **NM**.
2. The month enumeration apparently commences with the full moon. For example, the first lunar month is comprised of solar days 1-29, totaling 29 days. Hebrew *chadash chodesh* and Greek *neomenia* refer to "new months" not "new moons."
3. The first year of the lunar cycle concludes on the 21st day of the twelfth month.
4. Apparently, this scenario assumes that the moon was created on the fourth day and that it was fully illuminated (i.e., a full moon). This concurs with the literal interpretation of the Genesis account.
5. The 354-day lunar year is exactly ten days less than the solar year of 364 days.

# Lunar Cycles from the Calendrical Documents 4Q320 and 4Q321

## Lunar Cycle 2 of 3

	1st	2nd	3rd	4th	5th	6th	Sab
<i>Abib</i>				1	2	3	4
	5	6	NM	8	9	10	11
	12	13	(14)	(15)	16	17	18
	19	FM	(21)	22	23	24	25
	(26)	27	28	29	30		
2nd					1	2	
	3	4	5	6	NM	8	9
	10	11	12	13	(14)	15	16
	17	18	19	FM	21	22	23
	24	25	26	27	28	29	30
3rd	1	2	3	4	5	NM	7
	8	9	10	11	12	13	14
	(15)	16	17	18	FM	20	21
	22	23	24	25	26	27	28
	29	30	SS				
4th				1	2	3	4
	NM	6	7	8	9	10	11
	12	13	14	15	16	17	FM
	19	20	21	22	23	24	25
	26	27	28	29	30		
5th					1	2	
	(3)	NM	5	6	7	8	9
	10	11	12	13	14	15	16
	FM	18	19	20	21	22	23
	24	25	26	27	28	29	30
6th	1	2	3	NM	5	6	7
	8	9	10	11	12	13	14
	15	16	FM	18	19	20	21
	(22)	23	24	25	26	27	28
	(29)	30	AE				

	1st	2nd	3rd	4th	5th	6th	Sab
7th				(1)	NM	3	4
	5	6	7	8	9	(10)	11
	12	13	14	FM	16	17	18
	19	20	21	(22)	23	24	25
	26	27	28	29	30		
8th						1	NM
	3	4	5	6	7	8	9
	10	11	12	13	14	FM	16
	17	18	19	20	21	22	23
	24	25	26	27	28	29	30
9th	NM	2	3	4	5	6	7
	8	9	10	11	12	13	FM
	15	16	17	18	19	20	21
	22	23	24	25	26	27	28
	29	30	NM				
10th				1	2	3	4
	5	6	7	8	9	10	11
	12	FM	14	15	16	17	18
	19	20	21	22	23	24	25
	26	27	28	NM	30		
11th						1	2
	3	4	5	6	7	8	9
	10	11	FM	13	14	15	16
	17	18	19	20	21	22	23
	24	25	26	27	28	NM	30
12th	1	2	3	4	5	6	7
	8	9	10	11	FM	13	14
	15	16	17	18	19	20	21
	22	23	24	25	26	27	NM
	29	30	VE				

Lunar Month	# of Days
1st	29
2nd	30
3rd	29
4th	30
5th	29
6th	30
7th	29
8th	30
9th	29
10th	30
11th	29
12th	30
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**Note:**

The second year of the lunar cycle commences with the 22nd day of the twelfth month from the previous solar year and concludes with the 11th day of the twelfth month.

# Lunar Cycles from the Calendrical Documents 4Q320 and 4Q321

## Lunar Cycle 3 of 3

	1st	2nd	3rd	4th	5th	6th	Sab
Abib				1	2	3	4
	5	6	7	8	9	FM	11
	12	13	14	15	16	17	18
	19	20	21	22	23	24	25
	26	NM	28	29	30		
2nd					1	2	
	3	4	5	6	7	8	9
	FM	11	12	13	14	15	16
	17	18	19	20	21	22	23
	24	25	NM	27	28	29	30
3rd	1	2	3	4	5	6	7
	8	FM	10	11	12	13	14
	15	16	17	18	19	20	21
	22	23	24	25	NM	27	28
	29	30	SS				
4th				1	2	3	4
	5	6	7	FM	9	10	11
	12	13	14	15	16	17	18
	19	20	21	22	23	NM	25
	26	27	28	29	30		
5th					1	2	
	3	4	5	6	FM	8	9
	10	11	12	13	14	15	16
	17	18	19	20	21	22	23
	NM	25	26	27	28	29	30
6th	1	2	3	4	5	6	FM
	8	9	10	11	12	13	14
	15	16	17	18	19	20	21
	22	NM	24	25	26	27	28
	29	30	AE				

	1st	2nd	3rd	4th	5th	6th	Sab
7th				1	2	3	4
	FM	6	7	8	9	10	11
	12	13	14	15	16	17	18
	19	20	21	NM	23	24	25
	26	27	28	29	30		
8th						1	2
	3	4	FM	6	7	8	9
	10	11	12	13	14	15	16
	17	18	19	20	NM	22	23
	24	25	26	27	28	29	30
9th	1	2	3	FM	5	6	7
	8	9	10	11	12	13	14
	15	16	17	18	19	20	NM
	22	23	24	25	26	27	28
	29	30	WS				
10th				1	2	FM	4
	5	6	7	8	9	10	11
	12	13	14	15	16	17	18
	NM	20	21	22	23	24	25
	26	27	28	29	30		
11th						1	FM
	3	4	5	6	7	8	9
	10	11	12	13	14	15	16
	17	18	NM	20	21	22	23
	24	25	26	27	28	29	30
12th	1	FM	3	4	5	6	7
	8	9	10	11	12	13	14
	15	16	17	NM	19	20	21
	22	23	24	25	26	27	28
	29	30	VE				

Lunar Month	# of Days
1st	29
2nd	30
3rd	29
4th	30
5th	29
6th	30
7th	29
8th	30
9th	29
10th	30
11th	29
12th	30
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**Notes:**

1. The third year of the lunar cycle commences with the 12th day of the twelfth month from the previous solar year and concludes with the 1st day of the twelfth month.
2. After the third solar year, the lunar cycles are exactly 30 solar days, or one solar month, deficient. A consequence of this occurrence is that the lunar cycles realign with the solar calendar -- with no intercalation required -- and creates an 'ot (sign) denoted in 4Q319.

## Calendric Signs (Otot) from 4Q319

Week of Years		2nd Week of Years							3rd Week of Years							4th Week of Years							5th Week of Years							6th Week of Years							W				
3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44
52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93
01	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142
50	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191
99	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240
48	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289

opted from *The Complete Dead Sea Scrolls in English* by Geza Vermes (ISBN 0-14-027807-9) pp. 352-356.  
 align with the solar calendar after every third year; this is referenced as a "(Heavenly) sign" in 4Q319 (highlighted above).  
 s repeat after every third Jubilee.  
 s recycle with the Heavenly signs after every sixth year (see [QumranCalendar.pdf](#) for details on the priestly courses).  
 'calation is required. Each solar year consists of 364 days whereas the lunar cycle comprised of 354 days is ten days deficient.  
 After three solar years, the lunar cycle is exactly thirty (30) days deficient (i.e., one solar month) and the two realign.  
 avely signs by Jubilee are summarized below (as is documented in 4Q319):  
 it Jubilee; 3 signs in the Week of Release  
 cond Jubilee; 2 signs in the Week of Release  
 'd Jubilee; 2 signs in the Week of Release  
 irth Jubilee; 3 signs in the Week of Release  
 n Jubilee; 2 signs in the Week of Release  
 th Jubilee; 2 signs in the Week of Release

**Priestly Courses Serving on 1 Abib in Accordance with 4Q319  
First Jubilee**

Jubilee	Week	Day	Year	Course in Progress on 1 Abib
1	1	1	1	Gamul
		2	2	Jedaiah
		3	3	Mijamin
		4	4	Shecaniah
		5	5	Jeshelbeab
		6	6	Happizzez
		7	7	Gamul
	2	1	8	Jedaiah
		2	9	Mijamin
		3	10	Shecaniah
		4	11	Jeshelbeab
		5	12	Happizzez
		6	13	Gamul
		7	14	Jedaiah
	3	1	15	Mijamin
		2	16	Shecaniah
		3	17	Jeshelbeab
		4	18	Happizzez
		5	19	Gamul
		6	20	Jedaiah
		7	21	Mijamin
	4	1	22	Shecaniah
		2	23	Jeshelbeab
		3	24	Happizzez
		4	25	Gamul
		5	26	Jedaiah
		6	27	Mijamin
		7	28	Shecaniah
	5	1	29	Jeshelbeab
		2	30	Happizzez
		3	31	Gamul
		4	32	Jedaiah
		5	33	Mijamin
		6	34	Shecaniah
		7	35	Jeshelbeab
	6	1	36	Happizzez
		2	37	Gamul
		3	38	Jedaiah
		4	39	Mijamin
		5	40	Shecaniah
		6	41	Jeshelbeab
		7	42	Happizzez
	7	1	43	Gamul
		2	44	Jedaiah
		3	45	Mijamin
		4	46	Shecaniah
		5	47	Jeshelbeab
		6	48	Happizzez
		7	49	Gamul

**Notes:**

1. The highlighted year and course refers to the 'ot (Heavenly sign) where the solar calendar and the three year lunar cycle realign (that is, there is a full moon in 1 Abib).
2. Seventeen (17) signs for the first Jubilee -- three (3) signs in the Week of Release (7th week of years).

**Priestly Courses Serving on 1 Abib in Accordance with 4Q319  
Second Jubilee**

Jubilee	Week	Day	Year	Course in Progress on 1 Abib
2	1	1	50	Jedaiah
		2	51	Mijamin
		3	52	Shecaniah
		4	53	Jeshelbeab
		5	54	Happizzez
		6	55	Gamul
		7	56	Jedaiah
	2	1	57	Mijamin
		2	58	Shecaniah
		3	59	Jeshelbeab
		4	60	Happizzez
		5	61	Gamul
		6	62	Jedaiah
		7	63	Mijamin
	3	1	64	Shecaniah
		2	65	Jeshelbeab
		3	66	Happizzez
		4	67	Gamul
		5	68	Jedaiah
		6	69	Mijamin
		7	70	Shecaniah
	4	1	71	Jeshelbeab
		2	72	Happizzez
		3	73	Gamul
		4	74	Jedaiah
		5	75	Mijamin
		6	76	Shecaniah
		7	77	Jeshelbeab
5	1	78	Happizzez	
	2	79	Gamul	
	3	80	Jedaiah	
	4	81	Mijamin	
	5	82	Shecaniah	
	6	83	Jeshelbeab	
	7	84	Happizzez	
6	1	85	Gamul	
	2	86	Jedaiah	
	3	87	Mijamin	
	4	88	Shecaniah	
	5	89	Jeshelbeab	
	6	90	Happizzez	
	7	91	Gamul	
7	1	92	Jedaiah	
	2	93	Mijamin	
	3	94	Shecaniah	
	4	95	Jeshelbeab	
	5	96	Happizzez	
	6	97	Gamul	
	7	98	Jedaiah	

**Note:**

Sixteen (16) signs for the second Jubilee -- two (2) signs in the Week of Release (7th week of years).

**Priestly Courses Serving on 1 Abib in Accordance with 4Q319  
Third Jubilee**

Jubilee	Week	Day	Year	Course in Progress on 1 Abib
3	1	1	99	Mijamin
		2	100	Shecaniah
		3	101	Jeshelbeab
		4	102	Happizzez
		5	103	Gamul
		6	104	Jedaiah
		7	105	Mijamin
	2	1	106	Shecaniah
		2	107	Jeshelbeab
		3	108	Happizzez
		4	109	Gamul
		5	110	Jedaiah
		6	111	Mijamin
		7	112	Shecaniah
	3	1	113	Jeshelbeab
		2	114	Happizzez
		3	115	Gamul
		4	116	Jedaiah
		5	117	Mijamin
		6	118	Shecaniah
		7	119	Jeshelbeab
	4	1	120	Happizzez
		2	121	Gamul
		3	122	Jedaiah
		4	123	Mijamin
		5	124	Shecaniah
		6	125	Jeshelbeab
		7	126	Happizzez
5	1	127	Gamul	
	2	128	Jedaiah	
	3	129	Mijamin	
	4	130	Shecaniah	
	5	131	Jeshelbeab	
	6	132	Happizzez	
	7	133	Gamul	
6	1	134	Jedaiah	
	2	135	Mijamin	
	3	136	Shecaniah	
	4	137	Jeshelbeab	
	5	138	Happizzez	
	6	139	Gamul	
	7	140	Jedaiah	
7	1	141	Mijamin	
	2	142	Shecaniah	
	3	143	Jeshelbeab	
	4	144	Happizzez	
	5	145	Gamul	
	6	146	Jedaiah	
	7	147	Mijamin	

**Note:**

Sixteen (16) signs for the third Jubilee – two (2) signs in the Week of Release (7th week of years).

**Priestly Courses Serving on 1 Abib in Accordance with 4Q319  
Fourth Jubilee**

Jubilee	Week	Day	Year	Course in Progress on 1 Abib
4	1	1	148	Shecaniah
		2	149	Jeshelbeab
		3	150	Happizzez
		4	151	Gamul
		5	152	Jedaiah
		6	153	Mijamin
		7	154	<b>Shecaniah</b>
	2	1	155	Jeshelbeab
		2	156	Happizzez
		3	157	Gamul
		4	158	Jedaiah
		5	159	Mijamin
		6	160	Shecaniah
		7	161	<b>Jeshelbeab</b>
	3	1	162	Happizzez
		2	163	Gamul
		3	164	Jedaiah
		4	165	Mijamin
		5	166	Shecaniah
		6	167	Jeshelbeab
		7	168	<b>Happizzez</b>
	4	1	169	Gamul
		2	170	Jedaiah
		3	171	Mijamin
		4	172	Shecaniah
		5	173	Jeshelbeab
		6	174	Happizzez
		7	175	<b>Gamul</b>
5	1	176	Jedaiah	
	2	177	Mijamin	
	3	178	Shecaniah	
	4	179	Jeshelbeab	
	5	180	Happizzez	
	6	181	Gamul	
	7	182	<b>Jedaiah</b>	
6	1	183	Mijamin	
	2	184	Shecaniah	
	3	185	Jeshelbeab	
	4	186	Happizzez	
	5	187	Gamul	
	6	188	Jedaiah	
	7	189	<b>Mijamin</b>	
7	1	190	Shecaniah	
	2	191	Jeshelbeab	
	3	192	Happizzez	
	4	193	Gamul	
	5	194	Jedaiah	
	6	195	Mijamin	
	7	196	<b>Shecaniah</b>	

**Note:**

Seventeen (17) signs for the fourth Jubilee -- three (3) signs in the Week of Release (7th week of years).



**Priestly Courses Serving on 1 Abib in Accordance with 4Q319  
Fifth Jubilee**

Jubilee	Week	Day	Year	Course in Progress on 1 Abib
5	1	1	197	Jeshelbeab
		2	198	Happizzez
		3	199	Gamul
		4	200	Jedaiah
		5	201	Mijamin
		6	202	Shecaniah
		7	203	Jeshelbeab
	2	1	204	Happizzez
		2	205	Gamul
		3	206	Jedaiah
		4	207	Mijamin
		5	208	Shecaniah
		6	209	Jeshelbeab
		7	210	Happizzez
	3	1	211	Gamul
		2	212	Jedaiah
		3	213	Mijamin
		4	214	Shecaniah
		5	215	Jeshelbeab
		6	216	Happizzez
		7	217	Gamul
	4	1	218	Jedaiah
		2	219	Mijamin
		3	220	Shecaniah
		4	221	Jeshelbeab
		5	222	Happizzez
		6	223	Gamul
		7	224	Jedaiah
5	1	225	Mijamin	
	2	226	Shecaniah	
	3	227	Jeshelbeab	
	4	228	Happizzez	
	5	229	Gamul	
	6	230	Jedaiah	
	7	231	Mijamin	
6	1	232	Shecaniah	
	2	233	Jeshelbeab	
	3	234	Happizzez	
	4	235	Gamul	
	5	236	Jedaiah	
	6	237	Mijamin	
	7	238	Shecaniah	
7	1	239	Jeshelbeab	
	2	240	Happizzez	
	3	241	Gamul	
	4	242	Jedaiah	
	5	243	Mijamin	
	6	244	Shecaniah	
	7	245	Jeshelbeab	

**Note:**

Sixteen (16) signs for the fifth Jubilee -- two (2) signs in the Week of Release (7th week of years).

**Priestly Courses Serving on 1 Abib in Accordance with 4Q319  
Sixth Jubilee**

Jubilee	Week	Day	Year	Course in Progress on 1 Abib
6	1	1	246	Happizzez
		2	247	Gamul
		3	248	Jedaiah
		4	249	Mijamin
		5	250	Shecaniah
		6	251	Jeshelbeab
		7	252	Happizzez
	2	1	253	Gamul
		2	254	Jedaiah
		3	255	Mijamin
		4	256	Shecaniah
		5	257	Jeshelbeab
		6	258	Happizzez
		7	259	Gamul
	3	1	260	Jedaiah
		2	261	Mijamin
		3	262	Shecaniah
		4	263	Jeshelbeab
		5	264	Happizzez
		6	265	Gamul
		7	266	Jedaiah
	4	1	267	Mijamin
		2	268	Shecaniah
		3	269	Jeshelbeab
		4	270	Happizzez
		5	271	Gamul
		6	272	Jedaiah
		7	273	Mijamin
5	1	274	Shecaniah	
	2	275	Jeshelbeab	
	3	276	Happizzez	
	4	277	Gamul	
	5	278	Jedaiah	
	6	279	Mijamin	
	7	280	Shecaniah	
6	1	281	Jeshelbeab	
	2	282	Happizzez	
	3	283	Gamul	
	4	284	Jedaiah	
	5	285	Mijamin	
	6	286	Shecaniah	
	7	287	Jeshelbeab	
7	1	288	Happizzez	
	2	289	Gamul	
	3	290	Jedaiah	
	4	291	Mijamin	
	5	292	Shecaniah	
	6	293	Jeshelbeab	
	7	294	Happizzez	

**Note:**

Sixteen (16) signs for the sixth Jubilee -- two (2) signs in the Week of Release (7th week of years).