

The 2024 AAVSO RR Lyrae Ephemeris

The AAVSO RR Lyrae Ephemeris provides the predicted time of maximum for RR Lyrae and Delta Sct type stars in the AAVSO RR Lyrae legacy observing program. These times appear in Universal Time in the body of the ephemeris table. The time is rounded to the nearest half hour, providing sufficient accuracy to plan observing sessions while, hopefully, leaving sufficient doubt about the exact time in order to eliminate anticipatory bias. This ephemeris is designed for use by observers at American longitudes.

The top rows of the ephemeris table list the name of the star. Directly below the star's name are its approximate maximum and minimum magnitudes. These magnitudes are taken from the 4th edition of the GCVS and may be visual, photographic, or V.

Below that, in the row labeled "RISE". This is the approximate time required for the star to rise from minimum to maximum, in hours.

CCD observations of RR Lyrae type stars at all phases of their lightcurves are encouraged. This ephemeris can be used as a guide to determine what portion of the lightcurve is observable on a given night.

The numbers in the left-most column are the "double date" - the evening and the following morning - for the event times listed in the corresponding row. For example, 5-6 corresponds to the evening of the 5th and the morning of the 6th of the month. January 0-1 is the evening of December 31 and the morning of January 1.

Gerard Samolyk, AAVSO Short Period Pulsator Section

REFERENCE

Kholopov, P. N., *et al.* 1985, *General Catalogue of Variable Stars*, Fourth Edition, Moscow.

	SW	XX	AT	SW	TZ	BH	RS	ST	SW	SZ	TV	TW	UU	UY	RW	TT	RR	XZ	DM	RW	XZ	RR	VX
	AND	AND	AND	AQR	AUR	AUR	BOO	BOO	BOO	BOO	BOO	BOO	BOO	BOO	CNC	CNC	CET	CYG	CYG	DRA	DRA	GEM	HER
MAX	9.3	10.3	10.8	10.5	11.2	11.1	9.8	10.6	11.3	12.0	10.8	10.8	11.2	10.6	10.7	11.0	9.3	9.1	11.2	11.0	9.6	10.7	9.9
MIN	10.8	11.6	11.5	12.1	12.8	12.6	11.3	11.8	12.7	13.4	11.5	12.1	12.7	12.0	12.6	12.3	10.3	10.5	12.7	12.0	10.3	11.9	10.4
RISE	2	3	3	1	2	2	2	3	2	2	3	2	1	2	2	3	2	3	2	2	3	2	2
0- 1	3.0				5.5	4.0					7.0	11.5			5.5	11.0		2.0		8.5	2.0	1.5	
1- 2	0.0		4.5		0.5	1.5		9.5			5.5			7.0	8.0		0.5	0.5			1.0	6.0	
2- 3		4.0			4.5	10.5			6.5	8.0					10.0	3.5		10.0			11.0	1.0	
3- 4	5.0		0.5	1.0	9.0	8.5			7.0	9.0			11.0		12.5	6.5	1.0		3.0	0.0	10.0	5.5	
4- 5	2.5				3.5	6.5	7.0	12.5	8.0	10.0			9.0		1.5	9.5	3.5			8.0	9.0	0.5	11.0
5- 6		1.5			8.0	4.0			8.5	11.0	7.5	6.5			4.0	12.5					7.5	5.0	
6- 7			2.5		2.5	2.0		9.0	9.0	12.0	6.0	8.0		12.0	6.0	2.0		3.5	1.5		6.5	0.5	
7- 8	5.0	5.5			7.0	11.0	7.5		10.0			9.5			8.5	5.0		2.0		10.5	5.5	5.0	
8- 9	2.0				1.5	9.0			10.5			11.0		11.0	10.5	8.0	0.5	0.5		7.5	4.5	9.5	
9-10			5.0	0.0	6.0	6.5		12.0	11.0			12.5	9.5		13.0	11.0	3.0	10.0			3.0	4.5	
10-11		2.5			0.5	4.5	8.0		12.0		7.5		7.5	10.0	2.0						2.0	9.0	
11-12	4.5		1.0		5.0	2.5		8.5			6.0				4.5	4.0			2.5	10.0	1.0	4.0	
12-13	1.5	6.5			9.0	0.5								8.5	6.5	7.0				7.5	11.0	9.0	
13-14		0.0			4.0	9.0	8.0			7.5					9.0	10.0		3.5			10.0	4.0	
14-15			3.0		8.0	7.0		11.5		8.5		7.5	10.0	7.5	11.0	13.0	2.5	2.0	1.0		9.0	8.5	
15-16	4.0	4.0			3.0	5.0				9.5	7.5	9.0	8.0			2.5	5.0	0.5		9.5	8.0	3.5	
16-17	1.0				7.0	3.0	8.5	8.0		10.5	6.0	10.5			2.5	5.5		10.0		7.0	6.5	8.0	
17-18			5.0		2.0	1.0				11.5		12.0			5.0	8.5					5.5	3.5	
18-19		1.5			6.0	9.5									7.0	11.5					4.5	8.0	
19-20	3.5		1.5		1.0	7.5		11.0					11.0	12.5	9.5		2.0		2.0	9.5	3.5	3.0	
20-21	0.5	5.5		0.5	5.0	5.5					7.5		8.5		11.5	4.0	4.5	3.5		6.5	2.0	7.5	9.5
21-22					9.5	3.5		7.5	6.5		6.0			11.5		7.0		2.0			1.0	2.5	
22-23	5.5		3.5		4.0	1.0			7.5			7.0			3.0	10.0		0.0	0.5		11.5	7.0	
23-24	3.0	3.0			8.5	10.0			8.0			8.5		10.0	5.5			10.0		9.0	10.5	2.5	
24-25	0.0		0.0		3.0	8.0	7.0	10.5	8.5	7.0		10.0			7.5	3.0	1.5		3.0	6.5	9.0	7.0	
25-26		7.0	5.5		7.5	6.0			9.0	8.0	7.5	11.5	9.5	9.0	10.0	6.0	4.0				8.0	2.0	9.5
26-27	5.0	0.5			2.0	3.5			10.0	9.0	6.0		7.5		12.0	9.0				1.0	7.0	6.5	
27-28	2.5		2.0		6.5	1.5	7.5	13.0	10.5	10.0				8.0		12.0		3.5	1.5	8.5	6.0	1.5	
28-29		4.5			1.0	10.5			11.0	11.0					3.5			2.0		6.0	4.5	6.5	
29-30					5.5	8.5		10.0	12.0	12.5					5.5	4.5	1.0	0.0			3.5	1.5	
30-31	4.5		4.0		0.0	6.0	7.5				7.5	6.5	10.0		8.0	7.5	3.5	10.0		0.5	2.5	6.0	9.5

	AR	DL	DY	SZ	UU	DG	DH	RR	SS	TV	WW	SZ	RR	RZ	AV	RV
	HER	HER	HER	HYA	HYA	HYA	HYA	LEO	LEO	LEO	LEO	LYN	LYR	LYR	PEG	UMA
MAX	10.6	11.0	10.2	10.6	10.7	11.6	11.4	10.0	10.5	11.5	11.0	9.1	7.1	10.0	9.9	10.1
MIN	11.6	12.4	10.6	11.7	12.3	12.6	12.6	11.7	12.0	12.6	12.0	9.6	8.1	12.0	10.9	11.2
RISE	2	1	1	2	2	3	2	2	2	2	3	1	2	2	2	3
0- 1				10.0		6.5	9.5			7.0		7.5		11.5		
1- 2				12.0	3.5		9.0	10.5			4.0	1.0		12.0	2.5	10.5
2- 3					4.5		8.5	8.5	10.0	7.5	9.0	3.0		0.5		9.0
3- 4	10.5		10.5		5.5	6.5	8.0	6.0				5.0			1.5	7.5
4- 5	9.0			4.5	6.5		7.5	4.0	7.0	8.0	4.5	7.0				6.0
5- 6	7.5			6.0	8.0		7.0				9.5	0.5			0.5	4.5
6- 7				8.0	9.0	7.0	6.5	10.0		8.5		2.5				
7- 8			10.5	9.5	10.0		6.0	8.0	10.5		5.0	4.5	12.5			
8- 9				11.5	11.5		5.5	5.5		9.0	10.0	6.5				11.0
9-10		12.0			12.5	7.5	4.5	3.5	7.5			8.5				9.5
10-11							4.0			9.5	5.0	2.0			2.0	8.0
11-12	10.0			4.0			3.5	9.5			10.0	4.0	12.0			6.5
12-13	8.5	11.0		6.0	3.5	8.0	3.0	7.5	10.5	9.5		6.0	1.5		1.0	5.0
13-14	7.5			7.5	4.5			5.0			5.5	8.0				3.5
14-15				9.5	5.5			2.5	7.5	10.0	10.5	1.5				
15-16				11.0	6.5	8.5						3.5	11.0			
16-17					8.0			9.0		10.5	6.0	5.5	0.5			10.0
17-18					9.0			6.5	11.0		11.0	7.5			2.5	8.5
18-19				3.5	10.0	8.5	11.5	4.5		11.0		1.0				7.0
19-20	10.0			5.5	11.5	3.0	11.0		8.0		6.0	3.0			1.5	5.5
20-21	8.5			7.0	12.5		10.5	10.5		11.5	11.0	5.0				4.0
21-22	7.0			9.0		9.0	10.0	8.5				7.0		10.5	0.5	
22-23		12.5		10.5		3.5	9.5	6.0	11.0	12.0	6.5	0.5		11.0		
23-24				12.5	3.5		9.0	4.0			11.5	2.5		11.5		10.5
24-25					4.5	9.5	8.5		8.0	12.5		4.5	12.5	0.0		9.0
25-26		11.5			5.5	3.5	8.0	10.0			7.0	6.5				7.5
26-27	11.0			5.0	7.0		7.5	8.0	5.5	13.0	12.0	8.5			2.0	6.0
27-28	9.5			7.0	8.0	10.0	7.0	5.5	11.5			2.0				4.5
28-29	8.0	10.5	9.5	8.5	9.0	4.0	6.5	3.5			7.5	4.0	12.0		1.0	
29-30	7.0			10.5	10.0		6.0		8.5	5.5	12.0	6.0	1.5			
30-31				12.0	11.5	10.5	5.5	9.5				8.0				11.0

	SW	XX	AT	TZ	BH	RS	ST	SW	SZ	TV	TW	UU	UY	RW	TT	RR	XZ	DM	RW	XZ	RR	VX	AR
	AND	AND	AND	AUR	AUR	BOO	BOO	BOO	BOO	BOO	BOO	BOO	BOO	CNC	CNC	CET	CYG	CYG	DRA	DRA	GEM	HER	HER
MAX	9.3	10.3	10.8	11.2	11.1	9.8	10.6	11.3	12.0	10.8	10.8	11.2	10.6	10.7	11.0	9.3	9.1	11.2	11.0	9.6	10.7	9.9	10.6
MIN	10.8	11.6	11.5	12.8	12.6	11.3	11.8	12.7	13.4	11.5	12.1	12.7	12.0	12.6	12.3	10.3	10.5	12.7	12.0	10.3	11.9	10.4	11.6
RISE	2	3	3	2	2	2	3	2	2	3	2	1	2	2	3	2	3	2	2	3	2	2	2
0- 1	2.0	1.5		4.5	4.0		6.5			6.0	8.0	8.0	5.5	10.5	10.5		8.0		8.5	1.0	1.0	7.5	
1- 2			0.5	8.5	2.0	5.0	12.5			4.5	10.0	6.0	13.0	12.5	0.0			5.5	0.0	5.5			
2- 3				3.5		8.0					11.5			1.5	3.0					10.5	0.5		
3- 4				7.5	8.5		9.5		5.5				12.0	4.0	6.0	0.5				9.5	5.5		11.0
4- 5	1.5		2.5	2.5	6.5	5.5			6.5	7.5		10.5		6.0	9.5	3.0		0.5	8.0	8.0	0.5	10.0	9.5
5- 6		3.0		6.5	4.5	8.5	6.0	4.0	7.5	6.0		8.5	10.5	8.5			0.0		5.5	7.0	5.0	8.0	8.0
6- 7				1.5	2.5		12.0	4.5	8.5	4.5	4.5	6.5		10.5	2.0		10.0			6.0	0.0		6.5
7- 8	4.0			5.5	0.5	6.0		5.5	9.5		6.5		9.5		5.0		8.0		10.5	5.0	4.5		5.0
8- 9	1.0	0.5		0.5			8.5	6.0	10.5		8.0			2.0	8.0				7.5	3.5	9.0		
9-10			1.0	4.5	7.0			6.5	12.0	7.5	9.5		8.5	4.5	11.0	2.5			5.0	2.5	4.5	10.0	
10-11		4.5		8.5	5.0	6.5	5.5	7.5		6.0	11.0	9.0		6.5	0.5					1.5	9.0	8.0	
11-12	3.5			3.5	3.0		11.5	8.0		4.5	12.5	7.0	7.0	9.0	3.5				10.0	0.5	4.0		10.5
12-13	0.5		3.0	7.5	0.5			8.5				5.0		11.0	6.5		0.0	0.0	7.5	10.5	8.5		9.0
13-14		2.0		2.5		7.0	8.0	9.5					6.0	0.5	9.5		10.0		4.5	9.5	3.5		8.0
14-15				6.5	7.5			10.0		7.5	4.5			2.5		1.5	8.0			8.5	8.5	10.5	6.5
15-16	3.0			1.5	5.5			10.5	6.0	6.0	6.0	10.0	5.0	5.0	2.0				10.0	7.0	3.5	8.0	5.0
16-17	0.0			5.5	3.0	7.5	11.0	11.0	7.0	4.5	7.5	7.5	12.0	7.0	5.5				7.0	6.0	8.0		
17-18			1.5	0.5	1.0			12.0	8.0		9.0	5.5		9.5	8.5				4.5	5.0	3.0		
18-19		3.5		4.5			7.5		9.0		10.5		11.0	11.5						4.0	7.5		
19-20	2.5		13.0	9.0	8.0	7.5		10.0	7.5	12.0				1.0	1.0	1.0	0.0		9.5	2.5	2.5	10.5	10.5
20-21			3.5	3.5	5.5			11.5	6.0		10.5	10.0	3.0	4.0			9.5		7.0	1.5	7.5	8.5	9.0
21-22		1.0		8.0	3.5	5.0	10.5		12.5	4.5		8.5		5.5	7.0		8.0		4.0	0.5	2.5		7.5
22-23				2.5	1.5	8.0						6.5	8.5	7.5	10.0					10.5	7.0		6.0
23-24	2.0	5.0		7.0			7.0				5.5			10.0					9.0	9.5	2.0		
24-25				1.5	8.5	5.5		4.0		7.5	7.0		7.5	12.0	2.5	0.5			6.5	8.5	6.5	11.0	
25-26			2.0	6.0	6.0	8.5		4.5		6.0	8.5			1.0	5.5	3.0		0.5	3.5	7.5	1.5	8.5	
26-27		2.0		0.5	4.0		10.0	5.5	5.5	4.5	10.0	9.0	6.5	3.5	8.5		0.0			6.0	6.5		
27-28	1.5			5.0	2.0	6.0		6.0	6.5		11.5	7.0		6.0			9.5		9.0	5.0	1.5		10.0

	DL	DY	SZ	UU	DG	DH	RR	SS	TV	WW	SZ	RR	RZ	AV	RV
	HER	HER	HYA	HYA	HYA	HYA	LEO	LEO	LEO	LEO	LYN	LYR	LYR	PEG	UMA
MAX	11.0	10.2	10.6	10.7	11.6	11.4	10.0	10.5	11.5	11.0	9.1	7.1	10.0	9.9	10.1
MIN	12.4	10.6	11.7	12.3	12.6	12.6	11.7	12.0	12.6	12.0	9.6	8.1	12.0	10.9	11.2
RISE	1	1	2	2	3	2	2	2	2	3	1	2	2	2	3
0- 1	9.5				4.5	5.0	7.5	5.5	6.0	7.5	1.5				9.5
1- 2		10.0	3.0	1.0		4.5	5.0	11.5			3.5	11.0			8.0
2- 3			4.5	2.0		4.0	3.0		6.5	3.0	5.5				6.5
3- 4	8.5		6.5	3.5	5.0	3.5	0.5	9.0		8.0	7.5				5.0
4- 5	13.0		8.0	4.5		3.0	9.0		7.0		1.0				3.5
5- 6		10.0	10.0	5.5		2.0	7.0	6.0		3.5	3.0	10.5			2.0
6- 7		7.5		7.0	5.5	1.5	4.5	12.0	7.0	8.5	5.0			0.5	
7- 8	12.0			8.0		1.0	2.0				7.0				10.0
8- 9			2.5	9.0			11.0	9.0	7.5	3.5	0.5				8.5
9-10		10.5	4.0	10.0	5.5		8.5			8.5	2.5	9.5	8.5		7.0
10-11	11.0	8.0	6.0	11.5			6.0	6.0	8.0		4.5	13.0	9.0		5.5
11-12			8.0				4.0	12.0		4.0	6.5		9.5		4.0
12-13			9.5	1.0	6.0	10.5	1.5	3.0	8.5	9.0	8.5		10.5		2.5
13-14	10.0			2.5		9.5	10.0	9.5			2.0	9.0	11.0		
14-15		8.5		3.5		9.0	8.0		9.0	4.5	4.0	12.0	11.5		10.5
15-16			2.0	4.5	6.5	8.5	5.5	6.5		9.5	6.0		12.0	0.0	9.0
16-17	9.0		4.0	5.5		8.0	3.5	12.5	9.5		8.0				7.5
17-18			5.5	7.0		7.5	1.0	3.5		4.5	1.0				6.0
18-19		8.5	7.5	8.0	7.0	7.0	9.5	9.5	10.0	9.5	3.5	11.0			4.5
19-20			9.0	9.0	1.0	6.5	7.5				5.5				3.0
20-21	12.0			10.5		6.0	5.0	6.5	10.5	5.0	7.5				1.5
21-22				11.5	7.5	5.5	3.0	12.5		10.0	0.5				11.0
22-23		9.0	1.5		1.5	5.0	0.5	3.5	11.0		2.5	10.5		0.5	9.5
23-24	11.0		3.5	1.0		4.5	9.0	10.0		5.5	5.0				8.0
24-25			5.0	2.5	7.5	4.0	7.0		11.0	10.5	7.0				6.5
25-26			7.0	3.5	2.0	3.5	4.5	7.0	3.5	1.0	0.0				5.0
26-27	10.0	9.0	9.0	4.5		3.0	2.0	13.0	11.5	5.5	2.0	9.5			3.5
27-28				5.5	8.0	2.5	11.0	4.0	4.0	10.5	4.0	13.0			2.0

AAVSO RR Lyrae Ephemeris for March 2024

all times in U.T.

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	SW	XX	AT	TZ	BH	RS	ST	SW	SZ	TV	TW	UU	UY	RW	TT	RR	XZ	DM	RW	XZ	RR	TW	VX	
	AND	AND	AND	AUR	AUR	BOO	BOO	BOO	BOO	BOO	BOO	BOO	BOO	CNC	CNC	CET	CYG	CYG	DRA	DRA	GEM	HER	HER	
MAX	9.3	10.3	10.8	11.2	11.1	9.8	10.6	11.3	12.0	10.8	10.8	11.2	10.6	10.7	11.0	9.3	9.1	11.2	11.0	9.6	10.7	10.5	9.9	
MIN	10.8	11.6	11.5	12.8	12.6	11.3	11.8	12.7	13.4	11.5	12.1	12.7	12.0	12.6	12.3	10.3	10.5	12.7	12.0	10.3	11.9	11.8	10.4	
RISE	2	3	3	2	2	2	3	2	2	3	2	1	2	2	3	2	3	2	2	3	2	2	2	
0- 1				4.0		3.0		7.5	8.5					10.5	4.5		6.5		3.5	3.0	1.0	6.0		
1- 2			0.5	8.0	6.5	6.5	3.5	8.0	9.5	6.0	3.5		4.0		7.5					1.5	5.5		9.0	
2- 3	1.0			3.0	4.5		9.5	8.5	11.0	4.5	5.0	9.5	11.5	1.5					8.5	0.5	0.5	6.0	6.5	
3- 4			11.5	7.0	2.5	3.5		9.5	12.0	3.0	6.5	7.5	3.0	4.0					6.0	11.0	5.5			
4- 5				2.0		7.0	6.0	10.0		1.5	8.0	5.5	10.5	6.0	3.0				3.0	10.0		6.0		
5- 6		1.0		6.0			12.0	10.5			10.0	3.5		8.5	6.0									
6- 7	0.5			1.0	7.0	4.0		11.5		6.0	11.5		9.0	11.0	9.0				8.0	8.0	7.5	6.0	9.0	
7- 8				5.0	5.0	7.0	9.0	12.0	4.0	4.5		10.5							6.5	5.5	6.5	4.5	7.0	
8- 9				9.5	3.0				5.0	3.0		8.0	8.0	2.0	1.5					2.5	5.0	6.0		
9-10			1.0	4.0	0.5	4.5	5.5		6.0	1.5	3.0	6.0		4.5	4.5					10.5	4.0	4.5		
10-11		2.5		8.5		7.5	11.5		7.0		4.5	4.0	7.0	6.5	7.5					8.0	3.0	9.0		
11-12			12.0	3.0				2.0	8.0	6.0	6.5					1.5				5.0	2.0	4.0	9.5	
12-13				7.5	5.5	5.0	8.5	3.0	9.0	4.5	8.0	11.0	5.5						9.5	9.5	2.5	0.5	8.5	7.0
13-14				2.0	3.0	8.0		3.5	10.5	3.0	9.5	9.0			3.5				8.0	10.5	11.0	3.5		
14-15				6.5	1.0		5.0	4.0	11.5	1.5	11.0	7.0	4.5	2.5	6.5				6.5	7.5	10.0	8.5		
15-16				1.0		5.5	11.0	5.0	12.5		12.5	4.5	12.0	5.0						5.0	9.0	3.5		
16-17				5.5		8.5		5.5		6.0			3.5	7.0		1.0				2.0	7.5	8.0	9.5	
17-18	2.0		1.5		5.5		8.0	6.0		4.5	3.0		10.5	9.5	2.0					10.0	6.5	3.0	7.5	
18-19		1.0		4.5	3.5	6.0		6.5	3.5	3.0	4.5	9.5			5.0					7.0	5.5	7.5		
19-20				8.5	1.5	9.0	4.5	7.5	4.5	1.5	6.0	7.5	9.5	1.0	8.0					9.5	4.5	4.5	2.5	
20-21				3.5		3.0	10.5	8.0	5.5		7.5	5.5		3.0						8.0	1.5	3.0	7.5	
21-22	1.5			7.5		6.5		8.5	6.5	6.0	9.0	3.5	8.5	5.5	0.5	0.5	6.5			9.5	2.0	2.5	9.5	
22-23				2.5	6.0		7.5	9.5	7.5	4.5	10.5			7.5	3.5					7.0	1.0	7.0	7.5	
23-24		2.5		6.5	4.0	3.5		10.0	8.5	3.0	12.0	10.0	7.0	10.0	6.5					4.0	11.0	2.0	5.5	
24-25			11.0	1.5	2.0	7.0	4.0	10.5	10.0	1.5		8.0									10.0	6.5		
25-26	1.0		2.0	5.5			10.0	11.5	11.0		2.5	6.0	6.0	1.5						10.0	9.5	9.0	2.0	
26-27						4.0		12.0	12.0	6.0	4.0	4.0		3.5	2.5					9.5	6.5	8.0	6.5	10.0
27-28				4.5	6.5	7.0	6.5			4.5	5.5		5.0	6.0	5.5					8.0	4.0	6.5	1.5	8.0
28-29				8.5	4.5					3.0	7.0	10.5	12.0	8.0	8.5					6.5		5.5	6.0	5.5
29-30				3.5	2.5	4.5	3.5			1.5	8.5	8.5	4.0	10.5							9.0	4.5	1.0	
30-31				7.5		7.5	9.5	2.0	4.0		10.0	6.5	11.0		1.0						6.0	3.5	5.5	

	AR	DL	DY	SZ	UU	DG	DH	RR	SS	TV	WW	SZ	RR	RZ	RV
	HER	HER	HER	HYA	HYA	HYA	HYA	LEO	LEO	LEO	LEO	LYN	LYR	LYR	UMA
MAX	10.6	11.0	10.2	10.6	10.7	11.6	11.4	10.0	10.5	11.5	11.0	9.1	7.1	10.0	10.1
MIN	11.6	12.4	10.6	11.7	12.3	12.6	12.6	11.7	12.0	12.6	12.0	9.6	8.1	12.0	11.2
RISE	2	1	1	2	2	3	2	2	2	2	3	1	2	2	3
0- 1	7.5	9.0		1.5	8.0		1.5	6.0		4.5	6.0	8.5		7.0	10.0
1- 2	6.0		9.5	3.0	9.0	8.5	1.0	4.0	7.0			1.5	9.0	7.5	8.5
2- 3	4.5		7.0	5.0		2.5		1.5		4.5	1.5	3.5	12.0	8.0	7.0
3- 4	3.0	8.0		6.5				10.0	4.0		6.5	5.5		9.0	5.5
4- 5				8.5				8.0	10.5	5.0		8.0		9.5	4.0
5- 6			10.0		1.0	3.0		5.5	1.5		2.0	1.0	8.0	10.0	2.5
6- 7	10.0	7.0	7.0		2.5			3.5	7.5	5.5	7.0	3.0	11.5	10.5	1.0
7- 8	8.5	11.5		1.0	3.5			1.0				5.0		11.0	10.5
8- 9	7.0			2.5	4.5	3.5		9.5	4.5	6.0	2.0	7.0		11.5	9.0
9-10	5.5		10.0	4.5	5.5		8.5	7.5	10.5		7.0	0.5	7.5	12.0	7.5
10-11	4.0	10.5	7.5	6.5	7.0		8.0	5.0	1.5	6.5		2.5	10.5		6.0
11-12				8.0	8.0	4.0	7.0	3.0	7.5		2.5	4.5			4.5
12-13					9.0		6.5	0.5		7.0	7.5	6.5			3.0
13-14	11.0	9.5	10.5				6.0	9.0	4.5						1.5
14-15	9.5		8.0	0.5		4.5	5.5	7.0	11.0	7.5	3.0	2.0	9.5		11.0
15-16	8.0			2.5			5.0	4.5	2.0		8.0	4.0			9.5
16-17	7.0	8.5		4.0	1.0		4.5	2.0	8.0	8.0		6.0			8.0
17-18	5.5			6.0	2.5	4.5	4.0	11.0			3.0	8.0			6.5
18-19	4.0		8.0	7.5	3.5		3.5	8.5	5.0	8.5	8.0	1.5	9.0		5.0
19-20		7.5			4.5		3.0	6.0	11.0			3.5	12.0		3.5
20-21		12.0			6.0	5.0	2.5	4.0	2.0	8.5	3.5	5.5			2.0
21-22	11.0				7.0		2.0	1.5	8.0		8.5	7.5			
22-23	9.5	6.5	8.5	2.0	8.0		1.5	10.0		9.0		1.0	8.0	7.0	10.0
23-24	8.0	11.0	6.0	3.5	9.0	5.5	1.0	8.0	5.5	1.5	4.0	3.0	11.5	7.5	8.5
24-25	6.5			5.5				5.5	11.5	9.5	9.0	5.0		8.0	7.0
25-26	5.0			7.5				3.5	2.5	2.0		7.0		8.5	5.5
26-27	3.5	10.0	9.0			6.0		1.0	8.5	10.0	4.0	0.5	7.5	9.0	4.0
27-28			6.0		1.0			9.5		2.0	9.0	2.5	10.5	9.5	2.5
28-29					2.5			7.5	5.5	10.5		4.5		10.0	1.0
29-30	10.5	9.0		1.5	3.5	6.5		5.0		2.5	4.5	6.5		10.5	10.5
30-31	9.0		9.0	3.5	4.5	0.5		3.0	2.5		9.5	8.5		11.0	9.0

	SW	XX	AT	SW	TZ	BH	RS	ST	SW	SZ	TV	TW	UU	UY	RW	TT	XZ	DM	RW	XZ	RR	TW	VX
	AND	AND	AND	AQR	AUR	AUR	BOO	BOO	BOO	BOO	BOO	BOO	BOO	BOO	CNC	CNC	CYG	CYG	DRA	DRA	GEM	HER	HER
MAX	9.3	10.3	10.8	10.5	11.2	11.1	9.8	10.6	11.3	12.0	10.8	10.8	11.2	10.6	10.7	11.0	9.1	11.2	11.0	9.6	10.7	10.5	9.9
MIN	10.8	11.6	11.5	12.1	12.8	12.6	11.3	11.8	12.7	13.4	11.5	12.1	12.7	12.0	12.6	12.3	10.5	12.7	12.0	10.3	11.9	11.8	10.4
RISE	2	3	3	1	2	2	2	3	2	2	3	2	1	2	2	3	3	2	2	3	2	2	2
0- 1					2.5		2.0		3.0	5.0	6.0	11.5	4.5	2.5	1.5	4.0			3.5	2.0			10.0
1- 2			11.5		6.5		5.0	6.0	3.5	6.0	4.5		2.5	10.0	4.0	7.0	11.0			1.0	5.5	5.5	8.0
2- 3	10.5				1.5	5.0	8.0		4.0	7.0	3.0	2.0		1.5	6.5		9.5	9.5	8.5	11.5			6.0
3- 4				10.5	6.0	2.5	2.0	3.0	5.0	8.0	1.5	3.5	9.5	9.0	8.5		8.0		6.0	10.0	5.0	5.5	3.5
4- 5							5.5	9.0	5.5	9.5		5.0	7.0			2.5	6.5		3.0	9.0			
5- 6					5.0		8.5		6.0	10.5	6.0	6.5	5.0	7.5		5.5	5.0	8.0		8.0	4.5	5.5	10.5
6- 7			10.0				2.5	5.5	7.0	11.5	4.5	8.0	3.0		2.0		3.0		8.5	7.0			8.0
7- 8					4.0		6.0	11.5	7.5		3.0	10.0	1.0	6.5	4.5				5.5	5.5	4.5	5.5	6.0
8- 9						3.0	9.0	2.5	8.0	1.0	1.5	11.5	10.0		6.5	1.5	11.0		3.0	4.5			4.0
9-10		11.0		9.5	3.0	1.0	3.0	8.5	8.5	2.5			8.0	5.5		4.5	9.5			3.5	4.0	5.5	
10-11					7.0		6.5		9.5	3.5	6.0	1.5	6.0				8.0	9.0	8.0	2.5			10.5
11-12					2.0			5.0	10.0	4.5	4.5	3.0	3.5	4.0			6.5		5.0	1.0	4.0	5.0	8.5
12-13					6.0		3.5	11.0	10.5	5.5	3.0	4.5	1.5	11.5	2.5		4.5		2.5				6.5
13-14						3.5	6.5	2.0	11.5	6.5	1.5	6.5	10.5	3.0	5.0	3.0	3.0	7.5	10.5	10.5	3.5	5.0	4.0
14-15			10.5	11.0	5.0	1.5		8.0		7.5		8.0	8.5	10.5	7.0	6.0			7.5	9.0			
15-16				9.0			4.0			9.0	6.0	9.5	6.5	2.0			11.0	10.0	5.0	8.0	3.0	5.0	11.0
16-17					4.0		7.0	4.5	1.0	10.0	4.5	11.0	4.5	9.0			9.5		2.0	7.0			8.5
17-18							1.5	10.5	1.5	11.0	3.0		2.5			1.5	8.0		10.0	6.0	3.0	5.0	6.5
18-19					3.0	4.0	4.5	1.5	2.5		2.0	1.5		8.0	3.0	5.0	6.5	8.5	7.5	4.5			4.5
19-20			9.0		7.0	2.0	7.5	7.5	3.0			3.0	9.0		5.5		4.5		4.5	3.5	2.5	5.0	
20-21				10.5	2.0		2.0		3.5	2.0	6.5	4.5	7.0	7.0	7.5		3.0		2.0	2.5			
21-22					6.0		5.0	4.0	4.0	3.0	5.0	6.0	5.0						9.5	1.5	2.0	5.0	9.0
22-23		11.0	11.0		1.0		8.0	10.0	5.0	4.0	3.5	7.5	3.0	5.5		3.5	11.0		7.0		6.5		6.5
23-24					5.0	4.5	2.0		5.5	5.0	2.0	9.0			1.5	6.5	9.5	9.0	4.5	10.5	2.0	5.0	4.5
24-25						2.0	5.5	7.0	6.0	6.0		10.5	10.0	4.5	3.5		8.0		1.5	9.5	6.5		
25-26	10.5				4.0		8.5		7.0	7.0	6.5		7.5		6.0		6.5		9.5	8.5	1.5	5.0	
26-27				9.5			2.5	3.5	7.5	8.5	5.0		5.5	3.5	8.0	2.0	4.5	8.0	6.5	7.0	6.0		9.0
27-28			9.5		3.0		6.0	9.5	8.0	9.5	3.5	2.5	3.5	10.5		5.0	3.0		4.0	6.0	1.0	5.0	7.0
28-29					7.5	4.5	9.0		9.0	10.5	2.0	4.0	1.5	2.5					1.0	5.0	6.0	9.5	5.0
29-30					2.0	2.5	3.0	6.5	9.5	11.5		5.5	10.5	9.5	2.0		11.0		9.0	4.0			5.0

	AR	DL	DY	SZ	UU	DG	DH	RR	SS	TV	WW	SZ	RR	RZ	AV	RV
	HER	HER	HER	HYA	HYA	HYA	HYA	LEO	LEO	LEO	LEO	LYN	LYR	LYR	PEG	UMA
MAX	10.6	11.0	10.2	10.6	10.7	11.6	11.4	10.0	10.5	11.5	11.0	9.1	7.1	10.0	9.9	10.1
MIN	11.6	12.4	10.6	11.7	12.3	12.6	12.6	11.7	12.0	12.6	12.0	9.6	8.1	12.0	10.9	11.2
RISE	2	1	1	2	2	3	2	2	2	2	3	1	2	2	2	3
0- 1	7.5		6.5	5.0	6.0				8.5	3.0		2.0	10.0	11.5		7.5
1- 2	6.5	8.0	4.0		7.0			9.0			5.0	4.0				6.0
2- 3	5.0							7.0	6.0	3.5		6.0				4.5
3- 4	3.5		9.5					4.5				8.0	6.0			3.0
4- 5	2.0	7.0	7.0				6.5	2.5	3.0	4.0	5.0	1.5	9.0			1.5
5- 6		11.5	4.0	1.0		1.5	6.0		9.0			3.5			8.5	11.0
6- 7	10.5		3.0				5.0	8.5		4.5		5.5				9.5
7- 8	9.0	6.0	9.5	4.5	1.5		4.5	6.5	6.0		5.5	7.5	5.0			8.0
8- 9	7.5	10.5	7.0	6.5	2.5	1.5	4.0	4.0		5.0			8.0			6.5
9-10	6.0		4.5		3.5		3.5	1.5	3.0		1.0	3.0	11.5			5.0
10-11	4.5	5.0			4.5		3.0		9.0	5.5	6.0	5.0		4.5		3.5
11-12	3.0	9.5	10.0		6.0	2.0	2.5	8.0				7.0		5.5		2.0
12-13	1.5		7.5		7.0		2.0	5.5	6.5	6.0	1.5		7.5	6.0	9.5	
13-14			5.0	2.5			1.5	3.5			6.5	2.5	10.5	6.5		10.0
14-15	10.0	8.5		4.5		2.5	1.0	1.0	3.5	6.0		4.5		7.0		8.5
15-16	8.5		10.5	6.0					9.5		1.5	6.5		7.5		7.0
16-17	7.5		8.0					7.5		6.5	6.5	8.5	6.5	8.0		5.5
17-18	6.0	7.5	5.0			3.0		5.0	6.5			2.0	10.0	8.5		4.0
18-19	4.5	11.5			1.5			3.0		7.0	2.0	4.0		9.0		2.5
19-20	3.0		10.5		2.5				3.5		7.0	6.0		9.5		
20-21	1.5	6.5	8.0	2.0	3.5	3.5		9.0		7.5		8.0	6.0	10.0		10.5
21-22		10.5	5.5	4.0	4.5			7.0			2.5	1.5	9.0	10.5	9.0	9.0
22-23	10.0			5.5	6.0			4.5	7.0	8.0	7.5	3.5		11.0		7.5
23-24	8.5	5.5			7.0	3.5		2.5				5.5		11.5		6.0
24-25	7.0	9.5	8.5						4.0	8.5	2.5	7.5	5.0			4.5
25-26	5.5		6.0					8.5			7.5		8.5			3.0
26-27	4.0	4.5				4.0	6.5	6.5	1.0			3.0	11.5			1.5
27-28	2.5	8.5		2.0			6.0	4.0	7.0	1.0	3.0	5.0				11.0
28-29	1.5		8.5	3.5			5.5	1.5				7.0				9.5
29-30	11.0		6.0	5.5	1.5	4.5	5.0		4.0	1.5			7.5			8.0

AAVSO RR Lyrae Ephemeris for May 2024

all times in U.T.

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	SW	XX	AT	SW	TZ	BH	RS	ST	SW	SZ	TV	TW	UU	UY	RW	TT	XZ	DM	RW	XZ	RR	TW	VX
	AND	AND	AND	AQR	AUR	AUR	BOO	BOO	BOO	BOO	BOO	BOO	BOO	BOO	CNC	CNC	CYG	CYG	DRA	DRA	GEM	HER	HER
MAX	9.3	10.3	10.8	10.5	11.2	11.1	9.8	10.6	11.3	12.0	10.8	10.8	11.2	10.6	10.7	11.0	9.1	11.2	11.0	9.6	10.7	10.5	9.9
MIN	10.8	11.6	11.5	12.1	12.8	12.6	11.3	11.8	12.7	13.4	11.5	12.1	12.7	12.0	12.6	12.3	10.5	12.7	12.0	10.3	11.9	11.8	10.4
RISE	2	3	3	1	2	2	2	3	2	2	3	2	1	2	2	3	3	2	2	3	2	2	2
0- 1		10.0					6.5		10.0		6.5	7.0	8.5		4.0		9.5		6.5	2.5		9.5	
1- 2				11.0				3.0	10.5		5.0	8.5	6.5	8.5	6.5	4.0	8.0	8.5	3.5	1.5		4.5	9.5
2- 3			8.0	9.0	5.5		3.5	9.0		2.5	3.5	10.0	4.0				6.5					9.5	7.0
3- 4	9.5						6.5			3.5	2.0		2.0	7.5			4.5		9.0	10.5		4.5	5.0
4- 5					4.5	3.0		6.0		4.5							3.0	7.0	6.0	9.5	5.0	9.5	3.0
5- 6		10.0					4.0			5.5	6.5	2.0	9.0	6.0	2.0	2.5	1.5		3.5	8.5		4.5	
6- 7					3.5		7.0	2.5	1.5	6.5	5.0	3.5	7.0		4.5		11.0	9.5		7.5	4.5	9.5	9.5
7- 8	9.0			10.0				8.5	2.5	8.0	3.5	5.0	5.0	5.0	7.0		9.5	6.0	8.5	6.0		4.5	7.5
8- 9		9.0		8.0	2.5		4.5		3.0	9.0	2.0	6.5	3.0				8.0		5.5	5.0	4.0	9.5	5.0
9-10							7.5	5.5	3.5	10.0		8.0		4.0			6.0	8.0	3.0	4.0		4.5	3.0
10-11			8.5				1.5	11.0	4.5	11.0	6.5	10.0	9.5			4.0	4.5			3.0	4.0	9.5	
11-12	8.5						5.0	2.0	5.0		5.0		7.5	2.5	2.5		3.0		8.0	1.5		4.5	9.5
12-13							8.0	8.0	5.5		3.5		5.5	10.0	5.0		1.5	6.5	5.5		3.5	9.5	7.5
13-14		10.0	10.5	9.5	4.5		2.0		6.0	2.0	2.0	1.5	3.5	1.5			11.0		2.5	11.0		4.5	5.5
14-15				7.5			5.5	4.5	7.0	3.0		3.0		9.0		3.0	9.5	9.0	10.5	9.5	3.0	9.0	3.5
15-16					3.5	1.5	8.5	10.5	7.5	4.0	6.5	5.0	10.0				8.0		8.0	8.5		4.5	
16-17							2.5	1.5	8.0	5.0	5.0	6.5	8.0	7.5			6.0		5.0	7.5	3.0	9.0	10.0
17-18					2.5		6.0	7.5	9.0	6.0	3.5	8.0	6.0		3.0		4.5	7.5	2.5	6.5		4.5	8.0
18-19	10.5		9.0	10.5			9.0		9.5	7.5	2.0	9.5	4.0	6.5	5.5	1.5	3.0		10.0	5.0	2.5	9.0	5.5
19-20				8.5	1.5		3.0	4.0	10.0	8.5		11.0	2.0			4.5	1.5	10.0	7.5	4.0		4.5	3.5
20-21						2.0	6.0	10.0	11.0	9.5	6.5		11.0	5.5			11.0	6.0	4.5	3.0	2.0	9.0	
21-22		9.0	11.0							10.5	5.0		9.0				9.5		2.0	2.0		4.0	10.0
22-23	10.0				5.0		3.5	7.0			3.5	3.0	6.5	4.0			8.0	8.5	10.0		2.0	9.0	8.0
23-24			7.5				6.5				2.0	4.5	4.5		3.5	3.0	6.0		7.0	11.0		4.0	6.0
24-25				10.0	4.0			3.5			6.0	2.5	3.0		6.0		4.5		4.5	10.0	1.5	9.0	3.5
25-26				8.0		2.5	4.0	9.5	1.5	2.5	6.5	7.5		10.5			3.0	7.0	1.5	8.5		4.0	1.5
26-27	9.5	10.5	9.5		3.0		7.0		2.5	3.5	5.0	9.0	9.5	2.0					9.5	7.5		9.0	10.5
27-28								6.5	3.0	4.5	3.5	10.5	7.5	9.0		2.0	11.0	9.5	7.0	6.5		4.0	8.0
28-29					2.0		4.5		3.5	6.0	2.0		5.5		2.0	5.0	9.5	5.5	4.0	5.5		9.0	6.0
29-30							7.5	3.0	4.5	7.0			3.0	8.0	4.0		8.0			4.0		4.0	4.0
30-31	9.0			9.5		3.0	1.5	9.0	5.0	8.0	6.5	2.5			6.5		6.0	8.0	9.0	3.0		9.0	2.0

	AR	DL	DY	SZ	UU	DG	DH	RR	SS	TV	WW	SZ	RR	RZ	AV	RV
	HER	HER	HER	HYA	HYA	HYA	HYA	LEO	LEO	LEO	LEO	LYN	LYR	LYR	PEG	UMA
MAX	10.6	11.0	10.2	10.6	10.7	11.6	11.4	10.0	10.5	11.5	11.0	9.1	7.1	10.0	9.9	10.1
MIN	11.6	12.4	10.6	11.7	12.3	12.6	12.6	11.7	12.0	12.6	12.0	9.6	8.1	12.0	10.9	11.2
RISE	2	1	1	2	2	3	2	2	2	2	3	1	2	2	2	3
0- 1	9.5	7.5	3.5		2.5		4.5				3.5	2.5	10.5	3.5	8.5	6.5
1- 2	8.0				3.5		4.0	5.5		2.0		4.5		4.0		5.0
2- 3	7.0		9.0		5.0		3.5	3.5	7.5			6.5	3.5	4.5	7.0	3.5
3- 4	5.5	6.5	6.5				2.5			2.5	3.5		7.0	5.0		2.0
4- 5	4.0	11.0	4.0	1.5			2.0		4.5			2.0	10.0	5.5		
5- 6	2.5			3.0			1.5			3.0		4.0		6.0		10.0
6- 7		5.5	9.5					5.0	1.5		4.0	6.0	3.0	6.5		8.5
7- 8	11.0	10.0	6.5					3.0		3.5			6.0	7.0	9.0	7.0
8- 9	9.5		4.0										9.0	7.5		5.5
9-10	8.0	4.5							4.5	3.5	4.5	3.5		8.0	8.0	4.0
10-11	6.5	9.0	9.5					7.0				5.5		8.5		2.5
11-12	5.0		7.0		2.5			4.5	2.0	4.0			5.0	9.0	6.5	
12-13	3.5	3.5	4.5	3.0	3.5			2.5			5.0		8.5	9.5		10.5
13-14	2.0	8.0	2.0	4.5	5.0					4.5		2.5		10.5		9.0
14-15			10.0							5.0		5.0		11.0		7.5
15-16	10.5	2.5	7.5					6.5		5.0	5.0		4.5			6.0
16-17	9.0	7.0	4.5					4.0	2.0				7.5		8.5	4.5
17-18	7.5		2.0					1.5		5.5		2.0	11.0			3.0
18-19	6.5		10.5								5.5	4.0			7.5	
19-20	5.0	6.0	7.5	2.5						5.0	6.0		6.5	3.5		11.0
20-21	3.5	10.5	5.0	4.0				6.0					7.0			9.5
21-22	2.0		2.5			1.5		3.5	2.5	6.5	6.0	1.5	10.0			8.0
22-23		5.0	10.5		2.5		4.5					3.5		3.0		6.5
23-24	10.5	9.5	8.0		3.5		4.0					5.5	3.0	3.5	9.0	5.0
24-25	9.0		5.5		5.0	2.0	3.5		5.5				6.0	4.0		3.5
25-26	7.5	4.0	3.0				3.0	5.0					9.5	4.5	8.0	2.0
26-27	6.0	8.5		2.0			2.5	3.0	2.5		1.5	3.0		5.0		
27-28	4.5		8.5	4.0		2.5	2.0					5.0		5.5	7.0	10.0
28-29	3.0	3.0	5.5										5.5	6.0		8.5
29-30	1.5	7.5	3.0					7.0	5.5		2.0		8.5	6.5		7.0
30-31						2.5		4.5				2.5		7.0		5.5

	SW	XX	AT	SW	TZ	RS	ST	SW	SZ	TV	TW	UU	UY	RW	TT	RR	XZ	DM	RW	XZ	RR	TW	VX
	AND	AND	AND	AQR	AUR	BOO	BOO	BOO	BOO	BOO	BOO	BOO	BOO	CNC	CNC	CET	CYG	CYG	DRA	DRA	GEM	HER	HER
MAX	9.3	10.3	10.8	10.5	11.2	9.8	10.6	11.3	12.0	10.8	10.8	11.2	10.6	10.7	11.0	9.3	9.1	11.2	11.0	9.6	10.7	10.5	9.9
MIN	10.8	11.6	11.5	12.1	12.8	11.3	11.8	12.7	13.4	11.5	12.1	12.7	12.0	12.6	12.3	10.3	10.5	12.7	12.0	10.3	11.9	11.8	10.4
RISE	2	3	3	1	2	2	3	2	2	3	2	1	2	2	3	2	3	2	2	3	2	2	2
0- 1			7.5	7.5		5.0		5.5	9.0	5.0	4.0	10.0	7.0				4.5	4.0	6.5	2.0		4.0	10.5
1- 2				5.5		8.0	6.0	6.5		3.5	5.5	8.0					3.0		3.5			9.0	8.5
2- 3						2.0		7.0		2.0	7.0	6.0	6.0					6.5				4.0	6.5
3- 4	8.5	9.5	10.0			5.5	2.5	7.5			8.5	4.0		2.5			11.0		9.0	10.0		8.5	4.0
4- 5				10.5	3.0	8.5	8.5	8.0		6.5	10.0	2.0	4.5	4.5			9.5	9.0	6.0	9.0		4.0	2.0
5- 6			6.0	8.5		2.5		9.0	2.0	5.0		10.5			2.0		7.5	5.0	3.5	8.0		8.5	11.0
6- 7				6.5	2.0	6.0	5.5	9.5	3.0	3.5		8.5	3.5			10.5	6.0			6.5		4.0	8.5
7- 8	8.0					9.0		10.0	4.0	2.0	2.0	6.5					4.5	7.5	8.5	5.5		8.5	6.5
8- 9		10.5	8.0			3.0	2.0		5.5		3.5	4.5	2.5				3.0	3.5	6.0	4.5		4.0	4.5
9-10						6.0	8.0		6.5	6.5	5.0	2.5		3.0				10.0	3.0	3.0		8.5	2.0
10-11	10.5			10.0					7.5	5.0	6.5							11.0	6.0			4.0	
11-12	7.5	8.0	10.5	8.0		3.5	5.0		8.5	3.5	8.0	9.5	8.5			10.0	9.5		8.0			8.5	9.0
12-13				6.0		6.5	10.5		9.5	2.0	10.0	7.0					7.5	8.5	5.5			3.5	6.5
13-14			6.5		3.0			2.0				5.0	7.5				6.0	4.5	2.5	10.0		8.5	4.5
14-15	10.0					4.0	7.5	2.5		6.5		3.0			2.5		4.5		10.5	9.0	3.0	3.5	2.5
15-16	7.0				2.0	7.0		3.0		5.0			6.0	3.0			3.0	7.0	8.0	8.0		8.5	
16-17		9.5	8.5	9.0			4.5	3.5		3.5	3.0	10.0			9.5			5.0	7.0	2.5	3.5	9.0	
17-18				7.0		4.5	10.0	4.5	2.5	2.0	5.0	8.0	5.0				11.0	9.5	2.5	5.5		8.5	7.0
18-19	9.5		5.0	5.5		7.5		5.0	3.5		6.5	6.0					9.5	5.5	10.5	4.5	2.0	3.5	5.0
19-20	6.5	7.0	10.5				7.0	5.5	5.0	6.5	8.0	3.5	4.0				7.5		7.5	3.5		8.5	2.5
20-21						5.0		6.5	6.0	5.0	9.5						6.0	8.0	5.0	2.5	2.0	3.5	
21-22		11.0	7.0	10.5		8.0	4.0	7.0	7.0	3.5		10.5	2.5	3.5			4.5	4.0	2.0			8.5	9.5
22-23	9.0			8.5	3.5	2.0	9.5	7.5	8.0	2.0		8.5					3.0		10.0			3.5	7.0
23-24				6.5		5.5		8.5	9.0			6.5			3.0			6.5	7.0	10.5		8.0	5.0
24-25		8.5	9.0		2.5	8.5	6.5	9.0		6.5	3.0	4.5					11.0		4.5	9.0		3.5	3.0
25-26						2.5		9.5		5.0	4.5	2.5					9.0	9.0	2.0	8.0		8.0	
26-27	8.5		5.5			5.5	3.5	10.0		3.5	6.0		7.5	2.0			7.5	5.0	9.5	7.0		3.5	9.5
27-28				9.5		9.0	9.0			2.0	7.5	9.0					6.0		7.0	6.0		8.0	7.5
28-29				8.0		3.0			2.0		9.0	7.0	6.5				4.5	7.5	4.0	4.5		3.5	5.0
29-30		9.5	7.5	6.0		6.0	6.0		3.0	6.5	10.5	5.0					3.0	3.5		3.5		8.0	3.0

	AR	DL	DY	SZ	UU	DH	RR	SS	TV	WW	SZ	RR	RZ	AV	RV
	HER	HER	HER	HYA	HYA	HYA	LEO	LEO	LEO	LEO	LYN	LYR	LYR	PEG	UMA
MAX	10.6	11.0	10.2	10.6	10.7	11.4	10.0	10.5	11.5	11.0	9.1	7.1	10.0	9.9	10.1
MIN	11.6	12.4	10.6	11.7	12.3	12.6	11.7	12.0	12.6	12.0	9.6	8.1	12.0	10.9	11.2
RISE	2	1	1	2	2	2	2	2	2	3	1	2	2	2	3
0- 1	10.0	2.0	8.5				2.5	3.0			4.5		7.5	4.5	4.0
1- 2	8.5	6.5	6.0						2.0			4.5	8.0	8.5	2.5
2- 3	7.0	11.0	3.5		2.5							7.5	9.0		
3- 4	6.0				3.5						2.0	11.0	9.5	7.5	10.5
4- 5	4.5	5.5	9.0				4.0			2.5	4.0		10.0		9.0
5- 6	3.0	10.0	6.5				2.0	3.0				3.5	10.5	6.5	7.5
6- 7			3.5									7.0	11.0		6.0
7- 8		4.5							2.0	3.0		10.0		5.0	4.5
8- 9	10.0	9.0	9.0								3.5			9.0	3.0
9-10	8.5		6.5				3.5		2.5			3.0			
10-11	7.0	3.5	4.0					3.5		3.0			6.0	8.0	11.0
11-12	5.5	8.0							3.0				9.5		9.5
12-13	4.0		9.5								3.0		2.0	7.0	8.0
13-14	2.5	2.5	7.0		2.5		5.0		3.5	3.5		2.0	2.5		6.5
14-15		7.0	4.5		3.5		3.0					5.5	3.0	6.0	5.0
15-16			1.5					3.5	4.0			8.5	3.5		3.5
16-17	9.5		10.0								2.5		4.0	4.5	
17-18	8.0	6.0	7.0	2.5					4.5		4.5		4.5	8.5	
18-19	7.0	10.0	4.5			2.0	4.5					4.5	5.0		10.0
19-20	5.5		2.0				2.5		5.0			8.0	5.5	7.5	8.5
20-21	4.0	5.0	10.0					4.0			2.0		6.0		7.0
21-22	2.5	9.0	7.5								4.0		7.0	6.5	5.5
22-23			5.0									4.0	7.5		4.0
23-24	11.0	4.0	2.5				4.0					7.0	8.0	5.5	2.0
24-25	9.5	8.0	10.5	2.5	2.5		2.0					10.0	8.5		
25-26	8.0		8.0					4.0			3.5		9.0		10.5
26-27	6.5	3.0	5.5									3.0	9.5	8.0	9.0
27-28	5.0	7.0	2.5									6.0	10.0		7.5
28-29	3.5						3.5					9.5	10.5	7.0	6.0
29-30	2.0	2.0	8.0								3.0				4.5

AAVSO RR Lyrae Ephemeris for July 2024

all times in U.T.

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	SW	XX	AT	SW	BH	RS	ST	SW	SZ	TV	TW	UU	UY	RW	RR	XZ	DM	RW	XZ	TW	VX	AR	DL
	AND	AND	AND	AQR	AUR	BOO	BOO	BOO	BOO	BOO	BOO	BOO	BOO	CNC	CET	CYG	CYG	DRA	DRA	HER	HER	HER	HER
MAX	9.3	10.3	10.8	10.5	11.1	9.8	10.6	11.3	12.0	10.8	10.8	11.2	10.6	10.7	9.3	9.1	11.2	11.0	9.6	10.5	9.9	10.6	11.0
MIN	10.8	11.6	11.5	12.1	12.6	11.3	11.8	12.7	13.4	11.5	12.1	12.7	12.0	12.6	10.3	10.5	12.7	12.0	10.3	11.8	10.4	11.6	12.4
RISE	2	3	3	1	2	2	3	2	2	3	2	1	2	2	2	3	2	2	3	2	2	2	1
0- 1	8.0			4.0					4.5	5.0		3.0	5.5				9.5	9.5	2.5	3.5			6.0
1- 2	5.0		4.0			3.5	2.5		5.5	3.5					8.0	11.0	6.0	6.5		8.0		10.5	
2- 3		7.0	9.5	11.0	10.0	6.5	8.5	2.0	6.5	2.0	2.5		4.5	2.5	10.5	9.0	2.0	4.0		3.0	7.5	9.0	
3- 4	10.5			9.0				2.5	7.5		4.0	7.5				7.5	8.0		10.5	8.0	5.5	7.5	5.0
4- 5	7.5		6.0	7.0		4.0	5.5	3.0		6.5	5.5	5.5	3.0			6.0	4.5	9.0	9.5	3.0	3.5	6.5	9.5
5- 6	5.0			5.0		7.0		3.5		5.0	7.0	3.5				4.5		6.5	8.0	8.0		5.0	
6- 7				3.0			2.0	4.5		3.5	8.5		2.0		7.5	3.0	7.0	3.5	7.0	3.0		3.5	4.0
7- 8	10.0	8.5	8.0		10.5	4.5	8.0	5.0		2.0					10.0		3.0		6.0	8.0	8.0	2.0	8.5
8- 9	7.0			10.5		7.5		5.5				8.5		3.0		11.0	9.0	8.5	5.0	3.0	5.5		
9-10			4.5	8.5			5.0	6.5		6.5		6.0				9.0	5.5	6.0	3.5	8.0	3.5	10.5	3.0
10-11		6.0	10.0	6.5		5.0		7.0	2.5	5.0	2.0	4.0				7.5		3.0	2.5	3.0		9.0	7.5
11-12	9.5			4.5		8.0		7.5	4.0	3.5	3.5	2.0				6.0	7.5			8.0		7.5	
12-13	6.5	10.0	6.5		11.0	2.0	7.5	8.5	5.0	2.0	5.0				9.5	4.5	4.0	8.5		3.0	8.0	6.0	2.0
13-14						5.5			6.0		6.5	9.0	6.0			3.0	10.0	5.5	10.5	8.0	6.0	4.5	6.5
14-15			3.0	9.5		8.5	4.5		7.0	6.5	8.5	7.0					6.0	3.0	9.5	3.0	3.5	3.0	
15-16	9.0	7.5	8.5	7.5		2.5				5.0		5.0	4.5			11.0	2.5		8.5	7.5			
16-17	6.0			5.5		5.5				3.5		2.5				9.0	8.5	8.0	7.0	3.0			5.5
17-18			5.0	3.5			7.0			2.0			3.5		9.0	7.5	4.5	5.5	6.0	7.5	8.0	10.0	10.0
18-19		4.5	10.5		9.0	3.0										6.0		2.5	5.0	3.0	6.0	8.5	
19-20	8.5			11.0		6.0	4.0			6.5	3.0	7.5	2.5			4.5	7.0	10.5	4.0	7.5	4.0	7.0	4.5
20-21	5.5	9.0	7.0	9.0						5.0	5.0	5.5				2.5	3.5	7.5	2.5	3.0	2.0	6.0	9.0
21-22				7.0		3.5		2.0	2.0	3.5	6.5	3.5					9.5	5.0		7.5		4.5	
22-23			3.5	5.0		6.5	6.5	2.5	3.5	2.0	8.0				8.5	10.5	5.5	2.0		3.0	8.5	3.0	3.5
23-24	8.0	6.0	9.0	3.0	9.5			3.0	4.5					11.0	9.0	2.0	10.0	11.0	7.5	6.5			8.0
24-25	5.0					4.0	3.5	4.0	5.5	6.5		8.0				7.5	8.0	7.5	9.5	2.5	4.0		
25-26		10.0	5.5	10.0		7.0	9.0	4.5	6.5	5.0		6.0		2.0		6.0	4.0	4.5	8.5	7.5	2.0	10.0	2.5
26-27	10.0		11.0	8.0				5.0	7.5	3.5		4.0	6.0			4.5		2.0	7.5	2.5		8.5	7.0
27-28	7.5			6.0		4.5	6.0	5.5		2.0	3.0	2.0			7.5	2.5	6.5	10.0	6.5	7.5	8.5	7.0	
28-29	4.5	7.5	7.5	4.5	10.0	7.5		6.5			4.5		5.0		10.5		2.5	7.0	5.0	2.5	6.5	5.5	
29-30							3.0	7.0		6.5	6.0	9.0				10.5	9.0	4.5	4.0	7.5	4.5	4.0	6.0
30-31	10.0		4.0			5.0	8.5	7.5		5.0	7.5	6.5	4.0			9.0	5.0		3.0	2.5	2.0	2.5	

	DY	RR	SS	TV	SZ	RR	RZ	AV	RV
	HER	LEO	LEO	LEO	LYN	LYR	LYR	PEG	UMA
MAX	10.2	10.0	10.5	11.5	9.1	7.1	10.0	9.9	10.1
MIN	10.6	11.7	12.0	12.6	9.6	8.1	12.0	10.9	11.2
RISE	1	2	2	2	1	2	2	2	3
0- 1	5.5					2.0		6.0	2.5
1- 2	3.0					5.5			
2- 3						8.5		5.0	
3- 4	8.5	3.0			2.5			9.0	
4- 5	6.0							3.5	8.0
5- 6	3.5					4.5	2.0	7.5	6.5
6- 7						8.0	2.5	2.5	5.0
7- 8	9.0				2.0	11.0	3.0	6.5	3.0
8- 9	6.0	2.5					3.5		
9-10	3.5					4.0	4.0	5.5	
10-11						7.0	4.5		
11-12						10.5	5.5	4.5	8.5
12-13	6.5		2.0	2.0			6.0	8.5	7.0
13-14	4.0	2.0				3.0	6.5	3.0	5.5
14-15				2.5		6.5	7.0	7.0	3.5
15-16						9.5	7.5		2.0
16-17	7.0			2.5			8.0	6.0	
17-18	4.0		2.0			2.5	8.5		
18-19						5.5	9.0	5.0	9.0
19-20						8.5	9.5	9.0	7.5
20-21	7.0				2.5		10.0	3.5	6.0
21-22	4.5						10.5	8.0	4.0
22-23	2.0	3.0	2.5			4.5		2.5	2.5
23-24						8.0		6.5	
24-25	7.5				1.5	11.0			
25-26	5.0							5.5	
26-27	2.5					4.0			8.0
27-28		2.5	2.5			7.0		4.5	6.5
28-29	8.0					10.5	2.0	8.5	4.5
29-30	5.0						2.5	3.0	3.0
30-31	2.5					3.0	3.5	7.5	

AAVSO RR Lyrae Ephemeris for August 2024

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	SW	XX	AT	SW	TZ	BH	RS	ST	SW	SZ	TV	TW	UU	UY	RW	RR	XZ	DM	RW	XZ	TW	VX	AR	
	AND	AND	AND	AQR	AUR	AUR	BOO	BOO	BOO	BOO	BOO	BOO	BOO	BOO	CNC	CET	CYG	CYG	DRA	DRA	HER	HER	HER	
MAX	9.3	10.3	10.8	10.5	11.2	11.1	9.8	10.6	11.3	12.0	10.8	10.8	11.2	10.6	10.7	9.3	9.1	11.2	11.0	9.6	10.5	9.9	10.6	
MIN	10.8	11.6	11.5	12.1	12.8	12.6	11.3	11.8	12.7	13.4	11.5	12.1	12.7	12.0	12.6	10.3	10.5	12.7	12.0	10.3	11.8	10.4	11.6	
RISE	2	3	3	1	2	2	2	3	2	2	3	2	1	2	2	2	3	2	2	3	2	2	2	
0- 1	7.0	5.0	9.5	9.5							4.0		4.5				7.5	1.5	9.5	2.0	7.5			
1- 2	4.0			7.5			2.0	5.5		1.5	2.5		2.5	3.0		7.0	6.0	7.5	6.5		2.5			
2- 3		9.0	6.0	5.5		10.5	5.0			3.0						9.5	4.5	3.5	4.0	11.0	7.5	6.5		
3- 4	9.5		11.5	3.5		8.5		2.5		4.0				1.5			2.5	10.0		10.0	2.5	4.5	8.0	
4- 5	6.5		2.5	1.5			2.5			5.0	5.5	2.5			11.5			6.0	9.0	8.5	7.0	2.5	6.5	
5- 6	4.0	6.5	8.0	10.5			5.5			6.0	4.0	4.0	5.5				10.5	2.0	6.5	7.5	2.5		5.5	
6- 7				8.5				5.0			2.5	5.5	3.0			6.5	9.0	8.5	3.5	6.5	7.0		4.0	
7- 8	9.0	10.5	4.5	7.0	8.5	11.0	3.0									9.0	7.5	4.5		5.5	2.5	7.0	2.5	
8- 9	6.0	4.0	10.0	5.0		8.5	6.0	2.0									6.0		9.0	4.0	7.0	5.0		
9-10	3.5			3.0													4.5	7.0	6.0	3.0	2.5	2.5		
10-11		8.0	6.5				3.5			2.5	4.0		6.0				2.5	3.0	3.5	2.0	7.0			
11-12	8.5			10.0				4.5	3.0		2.5		4.0			6.0		9.5			2.5		8.0	
12-13	5.5		3.0	8.0					4.0			2.0	2.0	4.5		8.5	10.5	5.5	8.5	11.0	7.0	7.0	6.5	
13-14	3.0	5.0	8.5	6.0		9.0	4.0	1.5	4.5	2.5		3.5				11.0	9.0	1.5	5.5	10.0	2.0	5.0	5.0	
14-15				4.0		7.0		7.0	5.0	3.5	5.5	5.0		3.0			7.5	8.0	3.0	9.0	7.0	3.0	3.5	
15-16	8.0	9.0	5.0	2.0					6.0	4.5	4.0	6.5	6.5				6.0	4.0		7.5	2.0		2.0	
16-17	5.0		10.5		9.0		4.5	4.0		5.5	2.5		4.5	2.0		5.5	4.0		8.0	6.5	7.0			
17-18			1.5	9.5									2.5			8.0	2.5	6.5	5.5	5.5	2.0	7.5		
18-19	10.0	6.5	7.0	7.5		9.5	1.5									10.5		2.5	2.5	4.5	7.0	5.0		
19-20	7.5			5.5		7.5	5.0	6.5										10.5	9.0	10.5	3.0	2.0	3.0	7.5
20-21	4.5	10.5	3.5	3.5							4.0	1.5					9.0	5.0	8.0	2.0	7.0		6.0	
21-22		4.0	9.0	1.5			2.0	3.5			2.5	3.0	5.0				7.5		5.0		2.0		5.0	
22-23	9.5			10.5			5.0					5.0	3.0			7.5	6.0	7.5	2.5	11.5	7.0		3.5	
23-24	7.0	8.0	5.5	8.5		10.0						6.5				10.0	4.0	3.5	10.0	10.0	2.0	5.5	2.0	
24-25	4.0		11.0	6.5		8.0	2.5	6.0		2.0	5.5						2.5	9.5	7.5	9.0	7.0	3.5		
25-26			2.0	4.5	9.0		5.5			3.0	4.0							6.0	4.5	8.0	2.0			
26-27	9.0	5.5	7.5	2.5				3.0		4.0	2.5		5.5				10.5	2.0	2.0	6.5	6.5			
27-28	6.5						3.0		1.5	5.0			3.5	3.5		7.0	9.0	8.5	10.0	5.5	2.0		7.5	
28-29	3.5	9.5	4.0	10.0		10.5	6.0		2.0			1.5	1.5			9.5	7.5	4.5	7.0	4.5	6.5	5.5	6.0	
29-30		3.0	9.5	8.0		8.0		5.5	2.5		5.5	3.0		2.5			6.0		4.5	3.5	2.0	3.5	4.5	
30-31	9.0			6.0			3.5		3.0		4.0	4.5					4.0	7.0	1.5	2.0	6.5	1.5	3.0	

AAVSO RR Lyrae Ephemeris for August 2024

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	DL	DY	RR	SS	RR	RZ	AV	RV
	HER	HER	LEO	LEO	LYR	LYR	PEG	UMA
MAX	11.0	10.2	10.0	10.5	7.1	10.0	9.9	10.1
MIN	12.4	10.6	11.7	12.0	8.1	12.0	10.9	11.2
RISE	1	1	2	2	2	2	2	3
0- 1					6.5	4.0	2.0	
1- 2	5.0				9.5	4.5	6.0	
2- 3		5.5				5.0		
3- 4		3.0			2.5	5.5	5.0	7.0
4- 5	4.0				5.5	6.0	9.0	5.0
5- 6					9.0	6.5	4.0	3.5
6- 7		6.0	1.5			7.0	8.0	2.0
7- 8	3.0	3.0			1.5	7.5	2.5	
8- 9	7.5				5.0	8.0	7.0	
9-10					8.0	8.5	1.5	
10-11	2.0	6.0			11.0	9.0	5.5	7.5
11-12	6.5	3.5				9.5		5.5
12-13					4.0	10.5	4.5	4.0
13-14					7.0		8.5	2.5
14-15	5.5	6.5			10.5		3.5	
15-16		4.0					7.5	
16-17					3.0		2.0	
17-18	4.5				6.5		6.5	
18-19		6.5			9.5			6.0
19-20		4.0				2.0	5.0	4.5
20-21	3.5	1.5			2.5	2.5	9.5	3.0
21-22	7.5				5.5	3.0	4.0	1.5
22-23					9.0	3.5	8.0	
23-24	2.5	4.5				4.0	3.0	
24-25	6.5	2.0			1.5	4.5	7.0	
25-26			1.5		5.0	5.0	1.5	7.0
26-27	1.5				8.0	5.5	6.0	5.0
27-28	5.5	5.0			11.5	6.0		3.5
28-29		2.0		1.5		6.5	4.5	2.0
29-30					4.0	7.0	9.0	
30-31	4.5				7.5	7.5	3.5	

AAVSO RR Lyrae Ephemeris for September 2024

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	SW	XX	AT	SW	TZ	BH	RS	ST	SW	SZ	TV	TW	UU	UY	RW	TT	RR	XZ	DM	RW	XZ	RR	TW		
	AND	AND	AND	AQR	AUR	AUR	BOO	BOO	BOO	BOO	BOO	BOO	BOO	BOO	CNC	CNC	CET	CYG	CYG	DRA	DRA	GEM	HER		
MAX	9.3	10.3	10.8	10.5	11.2	11.1	9.8	10.6	11.3	12.0	10.8	10.8	11.2	10.6	10.7	11.0	9.3	9.1	11.2	11.0	9.6	10.7	10.5		
MIN	10.8	11.6	11.5	12.1	12.8	12.6	11.3	11.8	12.7	13.4	11.5	12.1	12.7	12.0	12.6	12.3	10.3	10.5	12.7	12.0	10.3	11.9	11.8		
RISE	2	3	3	1	2	2	2	3	2	2	3	2	1	2	2	3	2	3	2	2	3	2	2		
0- 1	6.0	7.0	6.0	4.0				2.5	4.0		2.5			1.5		10.5	4.0	2.5	3.0		1.0	9.5	2.0		
1- 2	3.0		11.5	2.0			0.5				1.0		4.5				6.5	1.0	9.0	7.0	11.5		6.5		
2- 3		11.0	2.0			10.5	4.0						2.0		11.5		9.0	10.5	5.5	4.0	10.5	9.0	1.5		
3- 4	8.5	4.0	8.0	9.0	9.0	8.5		5.0									11.5	9.0	1.5	1.5	9.0		6.5		
4- 5	5.5			7.0		6.5	1.0			1.5	4.0							7.5	7.5		8.0	8.5	1.5		
5- 6	3.0	8.5	4.5	5.5	8.0		4.5	2.0		2.5	2.5	1.0				12.0	3.5	6.0	4.0	6.5	7.0		6.5		
6- 7	10.5	1.5	10.0	3.5						3.5	1.0	2.5	5.0				6.0	4.0		4.0	6.0	8.5	1.5		
7- 8	8.0		0.5	1.5	7.0		1.5					4.0	3.0		9.5		8.5	2.5	6.5	1.0	4.5		6.5		
8- 9	5.0	5.5	6.5			9.0		4.5					1.0		12.0		11.0	1.0	2.5	9.0	3.5	8.0	1.5		
9-10	2.5		12.0	8.5		7.0					4.0							10.5		10.5	8.5	6.0	2.5	6.5	
10-11	10.0	9.5	2.5	6.5			2.0	1.5			2.5									9.0	5.0	3.5	1.5	7.5	1.5
11-12	7.5	3.0	8.5	4.5							1.0						5.5	7.5	1.0	0.5				6.5	
12-13	4.5			2.5									3.5				8.0	5.5	7.0	8.5	10.5	7.5	1.5		
13-14	2.0	7.0	5.0	0.5		9.5	2.5	4.0				0.5	1.5	1.5	10.0		10.5	4.0	3.5	6.0	9.5			6.5	
14-15	9.5		10.5		8.5	7.5			0.5		4.0	2.0						2.5	9.5	3.0	8.0			1.5	
15-16	7.0	11.0	1.0	8.0		5.0		1.0	1.5	1.0	2.5	3.5		0.5				1.0	5.5		7.0			6.0	
16-17	4.0	4.5	7.0	6.0	7.5		3.0		2.0	2.0	1.0						5.0	10.5	2.0	8.0	6.0			1.5	
17-18	1.5			4.0					2.5	3.0			4.0				7.5	9.0	8.0	5.5	5.0			6.0	
18-19	9.0	8.5	3.0	2.0	6.5	10.0		3.5	3.5	4.0			2.0			11.0	10.0	7.5	4.5	3.0	3.5			1.5	
19-20	6.5	2.0	9.0			7.5	3.5		4.0		4.0				10.5			5.5				2.5			6.0
20-21	3.5			9.0		5.5					2.5							4.0	6.5	8.0	1.5				1.5
21-22	1.0	6.0	5.0	7.0			0.5				1.0						4.5	2.5	3.0	5.0					6.0
22-23	8.5		11.0	5.0			4.0					1.5	5.0			9.5	7.0	1.0	9.0	2.5	10.5				1.5
23-24	6.0	10.0	1.5	3.0	8.5	10.0		3.0				3.0	2.5				9.5	10.5	5.0		9.5				6.0
24-25	3.0	3.5	7.5	1.0		8.0	1.0				4.0	5.0	0.5				12.0	9.0	1.5	7.5	8.5				1.0
25-26					7.5	6.0	4.5				2.5					11.0		7.5	7.5	5.0	7.0				6.0
26-27	8.0	7.5	3.5	8.5							1.0			2.0			3.5	5.5	3.5	2.0	6.0				1.0
27-28	5.5		9.5	6.5	6.5		1.5			1.5							11.5	6.5	4.0	10.0					6.0
28-29	2.5	11.5		4.5		10.5		2.5		2.5			3.5	1.0			9.0	2.5	6.0	7.5	4.0				1.0
29-30	10.5	4.5	5.5	2.5		8.5				3.5	4.0		1.5				11.5	1.0	2.5	4.5	2.5	9.5			6.0

	VX	AR	DL	DY	SZ	UU	DG	DH	RR	WW	SZ	RR	RZ	AV	RV
	HER	HER	HER	HER	HYA	HYA	HYA	HYA	LEO	LEO	LYN	LYR	LYR	PEG	UMA
MAX	9.9	10.6	11.0	10.2	10.6	10.7	11.6	11.4	10.0	11.0	9.1	7.1	10.0	9.9	10.1
MIN	10.4	11.6	12.4	10.6	11.7	12.3	12.6	12.6	11.7	12.0	9.6	8.1	12.0	10.9	11.2
RISE	2	2	1	1	2	2	3	2	2	3	1	2	2	2	3
0- 1		1.5											8.0	7.5	
1- 2				2.5										2.5	
2- 3			3.5									3.5		6.5	
3- 4	3.5											6.5		1.0	4.0
4- 5	1.5											9.5		5.5	2.5
5- 6		6.0	2.5	3.0											1.0
6- 7		4.5				12.0						2.5		4.0	
7- 8		3.0										5.5		8.5	
8- 9	4.0	1.5	1.5								8.5	9.0		3.0	
9-10	2.0			3.0				10.5					1.0	7.0	
10-11				0.5								1.5	1.5	2.0	4.5
11-12			0.5									5.0	2.0	6.0	3.0
12-13			5.0								8.0	8.0	2.5	0.5	1.5
13-14	4.0	5.5		3.5			11.0						3.0	5.0	
14-15	2.0	4.0		1.0								1.0	3.5	9.0	
15-16		2.5	4.0									4.0	4.0	3.5	
16-17		1.0					11.5				7.5	7.5	4.5	8.0	
17-18				3.5		12.0							5.0	2.5	5.0
18-19	4.5		3.0	1.0									5.5	6.5	3.5
19-20	2.0						12.0	11.5				3.5	6.0	1.5	2.0
20-21		6.5										6.5	7.0	5.5	0.5
21-22		5.5	2.0	4.0									7.5		
22-23		4.0		1.5									8.0	4.5	
23-24	4.5	2.5										2.5	8.5	8.5	
24-25	2.5	1.0			12.0							6.0		3.0	
25-26			5.5	4.5							8.5	9.0		7.5	4.0
26-27				2.0										2.0	2.5
27-28												2.0		6.0	1.0
28-29	5.0	6.5	4.5		12.0			10.5	11.0			5.0		1.0	
29-30	2.5	5.0		4.5							8.0	8.0		5.0	

	SW	XX	AT	SW	TZ	BH	RS	ST	SW	SZ	TV	TW	UU	UY	RW	TT	RR	XZ	DM	RW	XZ	RR	TW	
	AND	AND	AND	AQR	AUR	AUR	BOO	BOO	BOO	BOO	BOO	BOO	BOO	BOO	CNC	CNC	CET	CYG	CYG	DRA	DRA	GEM	HER	
MAX	9.3	10.3	10.8	10.5	11.2	11.1	9.8	10.6	11.3	12.0	10.8	10.8	11.2	10.6	10.7	11.0	9.3	9.1	11.2	11.0	9.6	10.7	10.5	
MIN	10.8	11.6	11.5	12.1	12.8	12.6	11.3	11.8	12.7	13.4	11.5	12.1	12.7	12.0	12.6	12.3	10.3	10.5	12.7	12.0	10.3	11.9	11.8	
RISE	2	3	3	1	2	2	2	3	2	2	3	2	1	2	2	3	2	3	2	2	3	2	2	
0- 1	8.0		11.5	0.5		6.5	2.0				2.5	1.5			9.5				8.5	2.0	1.5		1.0	
1- 2	5.0	8.5	2.0		4.5	4.5					1.0	3.0			11.5	10.0	3.0	9.0	4.5		0.5	9.0		
2- 3	2.0	2.0	7.5		9.0					0.0							5.5	7.5	1.0	7.0	10.5		1.0	
3- 4	10.0			5.5			2.5	2.0	0.5								8.5	5.5	7.0	4.0	9.5	8.5		
4- 5	7.5	6.0	4.0	3.5	8.0	9.0			1.5				2.0				11.0	4.0	3.0	1.5	8.5		1.0	
5- 6	4.5		10.0	2.0		7.0			2.0		2.5				7.5	8.5		2.5			7.5	8.5		
6- 7	1.5	10.0	0.5		7.0	4.5					1.0				9.5	11.5	2.5	1.0	5.5	6.5	6.0		1.0	
7- 8	9.5	3.5	6.0									12.0			12.0		5.0		1.5	4.0	5.0	8.0		
8- 9	7.0		12.0	7.0	6.0		0.0	1.5		1.0		1.0					7.5	9.0	8.0	1.0	4.0	4.0	1.0	
9-10	4.0	7.5	2.5	5.0		9.5				2.0		2.5	2.5				10.5	7.0	4.0		3.0	7.5		
10-11	1.5	1.0	8.0	3.0	5.0	7.0					2.5		0.5				10.5		5.5	0.0	6.5	1.5	1.0	
11-12	9.0	11.5		1.0	9.0	5.0	0.5				1.0				8.0		2.0	4.0	6.5	3.5	0.5	7.5		
12-13	6.5	5.0	4.5			3.0									10.0		4.5	2.5	2.5	1.0	11.0		1.0	
13-14	3.5		10.0		8.0			1.0							0.0	12.5		7.0	1.0	9.0		10.0	7.0	
14-15	1.0	9.0	1.0	6.0		10.0	1.0										9.0	9.5		5.0	6.0	8.5	0.5	
15-16	8.5	2.5	6.5	4.5	7.0	7.5					2.5		1.0				12.0		9.0	1.0	3.0	7.5	6.5	
16-17	6.0			2.5		5.5					1.0	0.5						1.5	7.0	7.5	0.5	6.5	0.5	
17-18	3.0	6.5	3.0	0.5	6.0	3.5	1.5					2.0			8.5		4.0	5.5	3.5		5.5	6.5		
18-19	0.5		8.5					0.5							10.5	7.5	6.5	4.0		5.5	4.0		0.5	
19-20	8.0	10.5			5.0	10.0				0.5							11.0	9.0	2.5	6.0	3.0	3.0	6.0	5.5
20-21	5.5	3.5	5.0	5.5	9.5	8.0	2.0			1.5	2.5		1.5						1.0	2.0	0.0	2.0		0.5
21-22	2.5		10.5	3.5		6.0		3.0	0.0		1.0								8.5		0.5	6.0	5.5	
22-23	10.5	8.0	1.5	1.5	8.5	4.0			1.0									3.5	9.0	4.5	5.5	11.0		0.5
23-24	7.5	1.0	7.0				2.5		1.5						9.0	9.5	6.0	7.0	0.5	2.5	10.0	5.5	5.5	
24-25	5.0	12.0			7.5	10.5			2.0			0.0			11.0		8.5	5.5	7.0		9.0		0.5	
25-26	2.0	5.0	3.5	7.0		8.5						1.5	2.5				11.0	4.0	3.0		7.5		5.5	
26-27	10.0		9.0	5.0	6.5	6.5		2.5			1.0		0.5	0.5				2.5		5.0	6.5		0.5	
27-28	7.0	9.0		3.0		4.5											8.0	3.0	1.0	5.5	2.0	5.5	5.0	
28-29	4.5	2.5	5.5	1.0	5.5		0.0										11.0	5.5		1.5		4.5	9.5	0.5
29-30	1.5		11.0												9.5		8.0	9.0	8.0		3.0		5.0	
30-31	9.5	6.5	2.0			9.0							3.0		11.5		10.5	7.0	4.0	4.5	2.0	9.0	0.5	

	VX	AR	DL	DY	SZ	UU	DG	DH	RR	SS	TV	WW	SZ	RR	RZ	AV	RV
	HER	HER	HER	HER	HYA	HYA	HYA	HYA	LEO	LEO	LEO	LEO	LYN	LYR	LYR	PEG	UMA
MAX	9.9	10.6	11.0	10.2	10.6	10.7	11.6	11.4	10.0	10.5	11.5	11.0	9.1	7.1	10.0	9.9	10.1
MIN	10.4	11.6	12.4	10.6	11.7	12.3	12.6	12.6	11.7	12.0	12.6	12.0	9.6	8.1	12.0	10.9	11.2
RISE	2	2	1	1	2	2	3	2	2	2	2	3	1	2	2	2	3
0- 1	0.5	3.5		2.0	10.0												
1- 2		2.0	3.5		11.5					12.0	12.0	11.5		1.0	0.5	4.0	
2- 3		0.5											5.5	4.0	1.0	8.0	
3- 4								10.0		12.5			7.5	7.5	1.5	2.5	3.0
4- 5	3.0		2.5	2.5							11.5				2.0	6.5	1.5
5- 6	0.5													0.5	2.5	1.5	0.0
6- 7										12.5				3.5	3.0	5.5	10.0
7- 8		5.0	1.5		9.5	9.5					12.0		7.0	6.5	3.5	0.5	
8- 9		3.5		2.5	11.0	11.0			9.5						4.0	4.5	
9-10	3.0	2.0		0.0		12.0									4.5	8.5	
10-11	1.0	0.5	0.5								12.5			2.5	5.5	3.5	
11-12							9.0	11.5					6.5	6.0	6.0	7.5	2.0
12-13				3.0				11.0					8.5		6.5	2.0	0.5
13-14				0.5				10.5	9.0							6.0	10.5
14-15	3.5		4.0				9.5	10.0						2.0		1.0	
15-16	1.0	4.5			11.0			9.5					6.0	5.0		5.0	
16-17		3.0											8.0				
17-18		1.5	3.0	0.5			9.5		10.5							4.0	
18-19		0.0				10.0								1.0		8.0	2.5
19-20						11.0							5.5	4.5		3.0	1.0
20-21	1.5		2.0			12.0	10.0						7.5	7.5		7.0	11.0
21-22				1.0							8.5					1.5	
22-23					10.5			10.0						0.5		5.5	
23-24		4.5	1.0		12.0		10.5							3.5	0.0	0.5	
24-25		3.0									9.0		7.0	6.5	0.5	4.5	
25-26	1.5	1.5		1.5											1.0	8.5	3.0
26-27							11.0								1.5	3.5	1.5
27-28								9.5			9.5			3.0	2.0	7.5	0.0
28-29													6.0	6.0	2.5	2.5	9.5
29-30				1.5	10.0	10.0	11.5						8.5		3.5	6.5	
30-31	2.0		3.5		12.0	11.0					10.0				4.0	1.0	

	SW	XX	AT	SW	TZ	BH	RS	ST	SW	SZ	TW	UU	UY	RW	TT	RR	XZ	DM	RW	XZ	RR	TW	VX
	AND	AND	AND	AQR	AUR	AUR	BOO	BOO	BOO	BOO	BOO	BOO	BOO	CNC	CNC	CET	CYG	CYG	DRA	DRA	GEM	HER	HER
MAX	9.3	10.3	10.8	10.5	11.2	11.1	9.8	10.6	11.3	12.0	10.8	11.2	10.6	10.7	11.0	9.3	9.1	11.2	11.0	9.6	10.7	10.5	9.9
MIN	10.8	11.6	11.5	12.1	12.8	12.6	11.3	11.8	12.7	13.4	12.1	12.7	12.0	12.6	12.3	10.3	10.5	12.7	12.0	10.3	11.9	11.8	10.4
RISE	2	3	3	1	2	2	2	3	2	2	2	1	2	2	3	2	3	2	2	3	2	2	2
0- 1	7.0		7.5		8.5	7.0					11.0	1.0			6.5		5.5	0.0	2.0	1.0	4.0		
1- 2	4.0	10.5		4.0	3.5	4.5					12.5		12.5		10.0	2.5	4.0	6.5	10.0	11.0	9.0	0.5	
2- 3	1.0	4.0	4.0	2.0	7.5	2.5									13.0	5.0	2.5	2.5		10.0	4.0		
3- 4	9.0		9.5	0.0									11.5	7.5		7.5	0.5		4.5	9.0	8.5	0.5	
4- 5	6.5	8.0	0.5		6.5	9.5								10.0				5.0	1.5	8.0	3.5		
5- 6	3.5	1.5	6.0			7.0								12.0	8.5			1.0		6.5	8.0	0.0	
6- 7	0.5				5.5	5.0			10.5						11.5	2.0	7.0				5.5		
7- 8	8.5	5.5	2.5	3.5		3.0			11.0							4.5	5.5	3.5	4.0	4.5	8.0	0.0	
8- 9	6.0		8.0	1.5	4.5				12.0		10.5			5.5		7.0	4.0		1.0	3.5			
9-10	3.0	9.5			8.5	9.5			0.0	11.0	12.0			8.0	7.0		2.5	6.0		2.0	7.5	0.0	
10-11	0.5	3.0	4.5		3.5	7.5		1.0		12.0	1.0			10.0	10.0		0.5	2.0		1.0			0.0
11-12	8.0				7.5	5.5						0.0		12.5		1.5			3.5	11.5	7.0	0.0	
12-13	5.5	7.0	1.0	4.5	2.5	3.5		12.5								4.0		4.5	1.0	10.0			
13-14	2.5	0.0	6.5	2.5	6.5	1.5									6.0	6.5	7.0	0.5		9.0	7.0	0.0	
14-15		11.0		1.0		10.0								6.0	9.0	9.0	5.5	6.5		8.0			
15-16	7.5	4.0	3.0		5.5	8.0		0.5						8.5	12.0		4.0	3.0	3.5	7.0	6.5		0.5
16-17	5.0		8.5			6.0					10.0	1.0	12.0	10.5		1.0	2.5		0.5	5.5			
17-18	2.0	8.0			4.5	4.0	0.0	12.0			12.0			13.0		3.5	0.5	5.0		4.5	6.0		
18-19		1.5	5.0	4.0	9.0	1.5					0.5				7.5	6.0		1.5		3.5			
19-20	7.0			2.0	3.5	10.5									10.5	8.5			3.0	2.5	6.0		
20-21	4.5	5.5	1.5	0.0	8.0	8.5								6.5			7.0	4.0	0.5	1.0			0.5
21-22	1.5		7.0		2.5	6.5				11.5				9.0		0.5	5.5			0.0	5.5		
22-23	9.5	9.5			7.0	4.0		11.5		12.5				11.0	6.0	3.0	4.0	6.0		10.5			
23-24	6.5	3.0	3.5			2.0								9.0	5.5	2.5	2.5	2.5	2.5	9.5	5.0		
24-25	4.0		9.0	3.5	6.0	11.0								12.0	8.0	0.5		10.5	8.0				
25-26	1.0	7.0		1.5		9.0			10.5		11.5							4.5		7.0	5.0		0.5
26-27	9.0	0.5	5.5		5.0	6.5			11.0		0.0			7.0				1.0	5.0	6.0	9.5		
27-28	6.0	11.0			9.0	4.5		11.0	12.0					9.5	8.0	2.5	7.0		2.5	4.5	4.5		
28-29	3.5	4.5	2.0		4.0	2.5			0.0					11.5	11.0	5.0	5.5	3.0	10.0	3.5	9.0		
29-30	0.5		7.5	4.5	8.0							12.5				7.5	4.0			2.5	4.0		

AAVSO RR Lyrae Ephemeris for December 2024

all times in U.T.

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	SW	XX	AT	SW	TZ	BH	ST	SW	SZ	TV	TW	UU	UY	RW	TT	RR	XZ	DM	RW	XZ	RR	AR	DL
	AND	AND	AND	AQR	AUR	AUR	BOO	BOO	BOO	BOO	BOO	BOO	BOO	CNC	CNC	CET	CYG	CYG	DRA	DRA	GEM	HER	HER
MAX	9.3	10.3	10.8	10.5	11.2	11.1	10.6	11.3	12.0	10.8	10.8	11.2	10.6	10.7	11.0	9.3	9.1	11.2	11.0	9.6	10.7	10.6	11.0
MIN	10.8	11.6	11.5	12.1	12.8	12.6	11.8	12.7	13.4	11.5	12.1	12.7	12.0	12.6	12.3	10.3	10.5	12.7	12.0	10.3	11.9	11.6	12.4
RISE	2	3	3	1	2	2	3	2	2	3	2	1	2	2	3	2	3	2	2	3	2	2	1
0- 1		8.5		2.5	3.0	9.0											2.0			1.5	9.0		
1- 2	6.0	2.0	4.0	0.5	7.0	7.0			10.0				11.0	5.5	6.5		0.5	2.0	2.0	0.0	4.0		
2- 3	3.0				2.0	5.0	10.5		11.0		9.5			7.5	9.5	1.5			10.0	10.5	8.5		
3- 4	0.0	6.0	0.5		6.0	3.0			12.0		11.0	9.5	10.0	10.0	12.5	4.5		4.0		9.5	3.5		
4- 5			6.0		1.0	1.0					12.5			12.0		7.0		0.5		8.5	8.0	0.0	
5- 6	5.5				5.0	9.5						9.0		5.0			5.5		1.5	7.0	3.0	10.0	
6- 7	2.5	3.0	2.5	2.0	9.5	7.5								3.5	8.0		4.0	2.5	9.5	6.0	8.0		
7- 8			8.0		4.0	5.5	10.0							5.5	11.5	1.0	2.0			5.0	3.0		
8- 9	7.5	7.5			8.5	3.5					10.0			8.0		3.5	0.5			4.0	7.5		
9-10	5.0	0.5	4.5		3.0	1.0								10.5	4.0	6.5		1.0	1.5	2.5	2.5		
10-11	2.0				7.5	10.0	13.0				9.0			12.5	7.0					9.5	1.5	7.0	
11-12		4.5	1.0	3.0	2.0	8.0		8.5			10.5				10.0			3.5		0.5	2.5		
12-13	7.0		6.5	1.0	6.5	6.0	9.5	9.5	9.5		12.0		13.0	4.0	13.0	0.5	5.5			10.5	7.0	11.0	
13-14	4.5	8.5			1.0	3.5		10.0	10.5			11.0		6.0		3.0	4.0		1.0	9.5	2.0	10.0	
14-15	1.5	2.0	3.0		5.5	1.5		10.5	11.5					11.5	8.5	5.5	5.5	2.0	2.0	9.0	8.5	6.5	
15-16						10.5	12.5	11.5						10.5	8.5		0.5			7.5	1.5		
16-17	6.5	6.0			4.5	8.5		12.0					10.5	13.0	11.5			4.5		6.0	6.0		
17-18	4.0		5.0	2.5	8.5	6.0										0.0		0.5	0.5	5.0			
18-19	1.0			0.5	3.5	4.0					8.5		9.5	4.5	4.0	2.5			8.5	4.0	6.0		
19-20		3.5	1.5		7.5	2.0					10.0	9.5		6.5	7.0	5.0	5.5	3.0		3.0			
20-21	6.0		7.0		2.5	11.0	12.0				12.0			9.0	10.5		4.0		3.0	1.5	5.5	11.0	
21-22	3.5	7.5			6.5	8.5								11.0			2.0		0.5	0.5		9.5	
22-23	0.5	1.0	3.5		1.5	6.5											0.5	1.5	8.5	11.0	5.0		
23-24				2.0	5.5	4.5			9.0						6.0	2.0				9.5			
24-25	5.5	5.0				2.5			10.0			10.0		5.0	9.0	4.5		4.0	3.0	8.5	5.0		
25-26	3.0		5.5		4.5	0.5	11.0		11.0					7.0	12.0	7.0		0.0	0.0	7.5	9.5		
26-27	0.0	9.0			8.5	9.0			12.0	7.5	8.5			9.5			5.5		8.0	6.5	4.5		12.5
27-28		2.5	2.0		3.5	7.0					10.0		12.0	11.5	4.5		3.5	2.5		5.0	9.0		
28-29	5.0		7.5	3.0	7.5	5.0					11.5				7.5	1.5	2.0		2.5	4.0	4.5	11.0	
29-30	2.5	6.5		1.0	2.5	3.0						10.5	11.0		10.5	4.0	0.5	5.0	10.5	3.0	9.0	9.5	
30-31			4.0		6.5	0.5	10.5	8.5						5.5		6.5		1.0	7.5	2.0	4.0		

	SZ	UU	DG	DH	RR	SS	TV	WW	SZ	RR	RZ	AV	RV
	HYA	HYA	HYA	HYA	LEO	LEO	LEO	LEO	LYN	LYR	LYR	PEG	UMA
MAX	10.6	10.7	11.6	11.4	10.0	10.5	11.5	11.0	9.1	7.1	10.0	9.9	10.1
MIN	11.7	12.3	12.6	12.6	11.7	12.0	12.6	12.0	9.6	8.1	12.0	10.9	11.2
RISE	2	2	3	2	2	2	2	3	1	2	2	2	3
0- 1		9.0		8.5	7.5		9.0		4.0	3.0			
1- 2		10.0		8.0	5.5			8.5	6.0			1.5	
2- 3	6.5	11.0	10.0	7.5		12.5	9.5		8.0				
3- 4	8.0	12.0		7.0					1.5			0.0	10.5
4- 5	10.0			6.5	9.5	9.5	10.0	9.0	3.5	2.0		4.5	9.0
5- 6	11.5		10.5	6.0	7.0				5.5				7.5
6- 7				5.5	5.0		10.5		7.5			3.0	6.0
7- 8						12.5		9.5					
8- 9		5.5	10.5				11.0		3.0	1.5	0.5	2.0	
9-10	6.0	6.5	5.0		9.0	9.5			5.0		1.0		
10-11	7.5	7.5			6.5		11.5	9.5	7.0		1.5	1.0	11.0
11-12	9.5	9.0	11.0								2.0		9.5
12-13	11.5	10.0	5.0			13.0	11.5	5.0	2.5	0.5			8.0
13-14		11.0			10.5			10.0	4.5	4.0		4.0	6.5
14-15		12.0	11.5		8.5	10.0	12.0		6.5				
15-16			5.5		6.0			5.5	8.5			2.5	
16-17	5.5						12.5	10.5	2.0				
17-18	7.5		12.0	11.5					4.0	3.0		1.5	
18-19	9.0		6.0	11.0	10.0			5.5	6.0				10.0
19-20	11.0	5.5		10.5	7.5	10.0		10.5	8.0			0.5	8.5
20-21	12.5	6.5	12.5	10.0	5.5				1.5	12.5		4.5	7.0
21-22		7.5	6.5	9.5		7.5		6.0	3.5	2.0			5.5
22-23		9.0		9.0				11.0	5.5			3.5	
23-24		10.0	13.0	8.5	9.5				7.5				
24-25	7.0	11.0	7.0	8.0	7.0	10.5		6.5				2.0	
25-26	8.5	12.0		7.5	5.0			11.5	3.0	1.5			10.5
26-27	10.5			6.5		7.5			5.0			1.0	9.0
27-28	12.5		7.5	6.0				6.5	7.0				7.5
28-29				5.5	9.0			11.5					6.0
29-30				5.0	6.5	10.5	7.5		2.5	0.5		4.0	
30-31		5.5	7.5					7.0	4.5				