

MAS Eclipsing Binary Ephemeris for September 2025

all times in U.T.

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	RT	TW	UU	WZ	XZ	AB	AB	AD	AD	BD	BX	DS	DS	QX	QX	RY	CX	CZ	EK	EK	XZ	KO	KP
	AND	AND	AND	AND	AND	AND	AND	AND	AND	AND	AND	AND	AND	AND	AND	AQR	AQR	AQR	AQR	AQR	AQL	AQL	AQL
MAX	9.3	8.8	11.2	11.6	10.0	9.3	9.3	11.1	11.1	11.3	8.6	10.8	10.8	11.3	11.3	8.8	10.7	10.3	10.8	10.8	9.3	8.3	9.7
MIN	10.2	11.0	14.1	12.6	13.0	10.2	10.2	11.6	11.6	11.7	9.5	11.4	11.4	11.6	11.6	10.1	12.0	11.2	11.3	11.3	11.2	9.3	10.5
DUR	3	11	8	4	3	3	3	4	4	3	4	4	4	3	3	5	3	3	3	3	7	5	4
TOT		2																					
							(S)		(S)				(S)		(S)					(S)			
0- 1	7.5			8.5	7.5	7.0	3.0		2.5	4.0	8.0		7.5	9.5	4.5		6.0	7.0	10.0	2.5			
1- 2				1.5		6.5	2.5		2.5	2.0			8.0	5.5		8.5	8.5	4.0		8.0			
2- 3	5.0		7.5	10.5		6.5	2.5		2.0		4.0		8.5		6.0				6.0				
3- 4	11.0			3.5		6.5	2.5		1.5	9.5	9.0		8.5	7.0	2.0	8.0	0.5			4.5			
4- 5	2.0				9.5	6.5	2.5		1.5	8.0			9.0	2.5	7.5		3.5		2.5	9.5			
5- 6	8.5	3.0	6.5	5.5		6.5	2.5		1.0	6.0	5.0		9.0	8.5	3.5	7.0	6.0		8.0				3.0
6- 7						6.0	2.0		0.5	4.5	10.5		9.5	4.0	9.0		8.5	8.0		6.0			
7- 8	5.5			7.5	2.5	6.0	2.0			2.5			9.5	9.5	5.0	6.0		5.0	4.0				
8- 9	12.0		6.0		11.0	6.0	2.0	12.0		0.5	6.0		10.0	5.5			1.0		9.5	2.0			
9-10	3.0	6.0		9.5		6.0	2.0	11.5		10.0	11.5		10.0		6.5	5.5	3.5			7.5			
10-11	9.0			2.5		6.0	2.0	11.0		8.5	2.0		10.5	7.0	2.0		6.0		5.5				
11-12			5.5	11.5	4.0	5.5	1.5	11.0		6.5	7.5		10.5	3.0	7.5	4.5	9.0		11.0	3.5		4.5	
12-13	6.5			4.5		5.5	1.5	10.5		4.5			11.0	8.5	3.5			9.0		9.0	3.5		
13-14		9.0				5.5	1.5	10.0		3.0	3.5		11.0	4.0	9.0	3.5	1.0	6.0	7.0				
14-15	4.0		4.5	6.5		5.5	1.5	10.0		1.0	8.5		11.5	5.5	5.0		3.5	2.5		5.0	7.0	1.0	
15-16	10.0				6.0	5.5	1.5	9.5		10.5			11.5	5.5		3.0	6.0		3.0	10.5			5.5
16-17	1.0			8.5		5.0	1.0	9.0		8.5	4.5		12.0	1.5	6.5		9.0		8.5				
17-18	7.0	12.0	4.0	1.5		5.0	1.0	9.0		7.0	10.0			7.0	2.0	2.0				6.5			
18-19				10.5		5.0	1.0	8.5		5.0				3.0	8.0		1.0	10.0	4.5				
19-20	4.5			3.5	7.5	5.0	1.0	8.0		3.5	6.0		8.5	3.5	1.5	3.5	6.5	10.0	2.5				
20-21	10.5		3.5			4.5	1.0	8.0		1.5	11.0		4.5	9.5		6.5	3.5		8.0				
21-22	2.0			5.5		4.5	0.5	7.5		11.0	1.5				5.0	0.5	9.0		6.0				
22-23	8.0					4.5	0.5	7.0		9.0	7.0			6.0						4.0			
23-24			3.0	7.5	9.5	4.5		7.0		7.5				1.5	6.5		1.0		2.5	9.5			
24-25	5.5					4.5		6.5		5.5	3.0	1.5		7.5	2.5		3.5		7.5				
25-26	11.5			9.5		4.0		6.0		4.0	8.0	2.0		3.0	8.0		6.5	7.5		5.5			
26-27	2.5		2.0	2.5	2.5	4.0		6.0		2.0		2.0		9.0	4.0		9.0	4.5	4.0				
27-28	8.5			11.5	11.0	4.0		5.5			4.0	2.5		4.5	9.5				9.0	2.0	3.0		
28-29				4.5		4.0	8.0	5.0		9.5	9.5	2.5			5.5		1.0		7.5				
29-30	6.0		1.5			4.0	8.0	5.0		8.0		3.0			6.0		4.0		5.5		6.5		

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	OO	OO	V342	V343	V346	RX	SS	SS	RY	SX	TT	WW	AP	AP	AR	AR	CL	EM	EP	HP	HP	IM	V459
	AQL	AQL	AQL	AQL	AQL	ARI	ARI	ARI	AUR	AUR	AUR	AUR	AUR	AUR	AUR	AUR	AUR	AUR	AUR	AUR	AUR	AUR	AUR
MAX	9.2	9.2	9.0	10.6	9.0	9.4	10.1	10.1	11.7	8.2	8.7	5.7	10.9	10.9	6.0	6.0	11.7	11.0	10.8	10.8	10.8	7.9	7.7
MIN	10.1	10.1	12.5	12.3	10.4	9.9	11.1	11.1	14.0	9.0	9.7	6.4	11.4	11.4	6.7	6.7	13.2	11.9	11.3	11.5	11.5	8.5	8.1
DUR	3	3	7	4	4	4	3	3	6	4	5	5	4	4	5	5	4	4	3	3	3	4	4
TOT			3																				
		(S)						(S)						(S)		(S)					(S)		
0- 1	2.5					3.5	9.0	4.0					9.5									9.5	9.0
1- 2	3.0					4.0	4.5	9.0									8.5	11.0			6.5		10.5
2- 3	3.0					5.0	9.5	4.5			6.5			9.0					7.0				12.0
3- 4	3.5					5.5	5.0											7.0	11.5	9.5			
4- 5	4.0					6.5		5.5	10.5	5.0			9.0		5.5								
5- 6	4.0				2.0	7.0	6.0			10.0													9.5
6- 7	4.5				4.5	7.5		6.0			6.5			9.0		7.0	8.0		10.0	6.0			
7- 8	5.0			8.0	7.0	8.5	6.5																
8- 9	5.0					9.0		7.0				7.5	8.5		8.5						9.0		
9-10	5.5		3.0	4.0		10.0	7.0						12.0						9.0				
10-11	6.0					10.5	2.5	7.5		6.0	6.5			8.5	10.0								9.0
11-12	6.0					11.0	8.0	3.0		11.0				12.0			7.5				5.5		
12-13	6.5					12.0	3.5	8.5						8.5	12.0			9.5	8.0				
13-14	7.0	0.5					8.5	4.0				8.5	11.5							9.0			
14-15	7.0	1.0					4.0	9.0			6.0							5.0					
15-16	7.5	1.5			1.0		9.5	4.5	8.5					11.5					7.0		12.0	9.0	
16-17	8.0	1.5			3.5		5.0	9.5		7.5				8.0			7.0		11.5	5.0			7.5
17-18	8.0	2.0			6.0			5.0						11.5									9.0
18-19		2.5			8.5		5.5				6.0	9.5		8.0							8.5		10.5
19-20		2.5	7.5					6.0						11.0					10.5				12.0
20-21		3.0		5.5			6.5						7.5							11.5		8.5	
21-22		3.5						6.5						11.0			6.5						
22-23		3.5		2.0			7.0			8.5	6.0			11.0						9.0			
23-24		4.0					2.5	7.5				11.0		11.0				8.0		8.0			
24-25		4.5					7.5	3.0						7.5									
25-26		4.5					3.0	8.0						10.5					8.0		11.0	8.5	
26-27		5.0	2.0		2.5		8.5	3.5	6.0		6.0			7.0			6.0						
27-28		5.5			5.0		4.0	9.0		5.0				10.5			11.5						
28-29		5.5			7.5		9.0	4.5		10.0									7.0		7.5		
29-30		6.0					4.5	9.5					10.5						11.5				

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	V459	SS	SS	TU	TU	TY	TY	TZ	TZ	UW	VW	VW	ZZ	AD	AD	44	44	Y	SV	AL	AN	CD	CD	
	AUR	BOO	BOO	BOO	BOO	BOO	BOO	BOO	BOO	BOO	BOO	BOO	BOO	BOO	BOO	BOO	BOO	CAM	CAM	CAM	CAM	CAM	CAM	
MAX	7.7	10.3	10.3	11.7	11.7	11.8	11.8	10.6	10.6	10.4	10.5	10.5	6.8	9.8	9.8	4.7	4.7	10.6	8.6	10.5	9.7	11.6	11.6	
MIN	8.1	11.0	11.0	12.7	12.7	12.3	12.3	11.1	11.1	11.4	11.0	11.0	7.6	10.4	10.2	4.9	4.8	12.4	9.4	11.3	10.5	11.8	11.8	
DUR	4	18	18	3	3	3	3	3	3	3	3	3	5	4	4	3	3	6	3	5	8	5	5	
TOT		6	6																					
	(S)	(2)		(S)		(S)		(S)		(S)		(S)	(S)		(S)		(S)						(S)	
0- 1				1.0		3.5		3.5		1.5						5.0	1.5	11.0				1.5	11.0	
1- 2						2.5	4.5	1.0		2.0					1.0		3.5	1.0					5.0	
2- 3				3.5		1.0	2.0		0.5	3.0	0.5	2.0				2.0	5.0	10.5	5.5	2.5		8.5		
3- 4				3.0	4.0			3.0	0.5						2.5	3.5		10.0	10.5			3.0		
4- 5				2.0	2.5		3.5	1.0						3.5		5.5	2.0				10.0		6.5	
5- 6				1.5	1.5		1.0	4.5	1.0	0.5						0.5	4.0		4.5			10.0	1.0	
6- 7				1.0		4.0		2.0	1.0	1.5						2.5	5.5		9.0	2.0		4.5		
7- 8	6.5					3.0	3.0		1.0	2.0						4.0	1.0		10.0				8.0	
8- 9	8.0			3.5		1.5		4.0	1.5	2.5						5.5	2.5		4.0			11.5	2.0	
9-10	9.5	0.5	3.5	3.0		4.5	0.5	5.0	1.5	1.5						1.0	4.0	1.0	8.5			5.5		
10-11	11.0			2.0		3.0		2.5		1.5						2.5	6.0			1.5			9.0	
11-12				1.5		2.0		3.5	1.5							4.5	1.0		3.0	9.5			3.5	
12-13				1.0		1.0	4.5	4.5	0.5	1.5		1.0					3.0	8.5	7.5				7.0	
13-14						3.5	1.5	5.0	2.0		1.5					1.5	4.5		12.0			1.5	10.5	
14-15				3.5		2.5		2.5	2.0		2.5					3.0			2.0	1.5			5.0	
15-16				3.0		1.0	3.5		2.0							5.0	1.5		6.5	9.0			8.5	
16-17				2.0	4.0		1.0	4.5	2.0								3.5		11.0			3.0	12.0	
17-18				1.5	2.5			2.0	2.5							2.0	5.0		1.5				6.5	
18-19				1.0	1.5		3.0		2.5	1.0						3.5			6.0	1.0		10.0	0.5	
19-20						4.0		4.0	2.5	1.5						5.5	2.0		10.5	9.0			4.0	
20-21				3.5		3.0	5.0	1.5	2.5	2.0						0.5	4.0						7.5	
21-22				3.0		2.0	2.0		3.0	3.0						2.5	5.5		5.0			11.0	2.0	
22-23				2.0		4.5	0.5		3.0	3.0						4.0	1.0	6.5	9.5	0.5		5.5		
23-24				1.5		3.5		4.0	0.5	3.0						5.5	2.5			8.5			9.0	
24-25	6.5			1.0		2.0		1.5	5.0	3.0		0.5				1.0	4.0		4.0				3.5	
25-26	8.0					1.0	5.0		2.5	3.0		1.0				2.5	6.0		8.5		10.0	7.0		
26-27	9.5				3.5		3.5	3.5		3.5		2.0				4.5	1.0					1.0	10.5	
27-28	11.0				3.0		2.5	1.0	4.5	3.5		2.5					3.0		3.5	8.0			4.5	
28-29					2.0		1.5		2.0	3.5						1.5	4.5		8.0				8.0	
29-30					1.5	4.0		3.0		3.5						3.0							2.5	11.5

	R	RT	SX	TU	TZ	TZ	XZ	YY	AC	AK	AM	RW	TY	RZ	TV	TW	ZZ	AB	CW	CW	DZ	IR	IS
	CMA	CMA	CMA	CMA	CMA	CMA	CMI	CMI	CMI	CMI	CMI	CAP	CAP	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS
MAX	6.2	11.4	10.3	9.7	9.8	9.8	9.7	8.5	11.0	10.1	10.0	9.8	10.5	6.4	7.3	8.3	10.7	10.2	11.8	11.8	11.6	10.8	11.6
MIN	6.8	12.9	11.4	10.7	10.5	10.5	10.2	9.1	11.5	11.5	10.7	10.8	11.6	7.8	8.4	8.9	11.1	12.2	12.5	12.5	12.3	12.1	12.6
DUR	4	5	4	4	4	4	3	4	3	4	5	5	4	4	4	5	4	4	3	3	4	4	5
TOT																							
						(S)															(S)		
0- 1														10.0					7.0	3.0		1.5	10.5
1- 2				11.0	9.5											9.0	4.5		5.5	2.0	11.5	10.0	
2- 3	11.0											5.0					10.0		4.5	1.0	6.5	2.5	6.5
3- 4							9.5			9.5			4.5					6.0	3.5	7.5	1.0	11.0	
4- 5		10.0														5.5			2.5	6.5		3.5	3.0
5- 6			11.0						11.0					4.5	8.0				1.5	5.5	9.5		
6- 7													0.5	9.5			3.5			4.5	4.5	4.5	
7- 8							11.0								3.5	2.0	9.5	8.5	7.0	3.5			
8- 9								12.0		11.5									6.0	2.0		5.5	
9-10																			5.0	1.0	8.0		
10-11				11.5									7.0					2.0	4.0		2.5	6.5	
11-12														4.0		9.0	3.0	11.0	3.0	7.0			11.5
12-13									9.5	10.5				8.5			9.0		2.0	5.5	11.0	7.5	
13-14		11.0											3.5						1.0	4.5	6.0		8.0
14-15							9.5								9.5	5.5		4.5	7.5	3.5	1.0	8.5	
15-16																			6.5	2.5		1.0	4.0
16-17										9.5					5.0		2.5		5.5	1.5	9.5	9.5	
17-18														3.5		2.0	8.0		4.5		4.0	2.0	
18-19			10.5				11.0		11.5					8.0	0.5			7.0	3.5	7.0		10.5	
19-20	12.0			12.0				10.5				4.0							2.5	6.0		3.0	
20-21													6.0						1.0	5.0	7.5	11.5	
21-22										12.0	9.5					9.0	2.0	0.5		4.0	2.5	4.0	
22-23						11.5					10.0						7.5	9.5	7.0	3.0			
23-24											10.5		2.5	3.0	11.0				5.5	2.0	11.0	5.0	
24-25											11.0			7.5		5.5			4.5	1.0	5.5		9.0
25-26							9.5		10.0	11.0	11.5				6.5			3.0	3.5	7.5	0.5	6.0	
26-27		9.5									12.0						1.0	11.5	2.5	6.5			5.5
27-28	11.0														2.0	2.0	7.0		1.5	5.5	9.0	7.0	
28-29																			0.5	4.5	4.0		1.5
29-30							11.0			10.0					2.5			5.5	7.0	3.5		8.0	

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	IT	IV	MM	OR	OX	OX	PV	PV	V364	V364	V375	V380	U	SU	WW	WZ	WZ	XX	ZZ	CW	CW	DK	DL	
	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CEP	CEP	CEP	CEP	CEP	CEP	CEP	CEP	CEP	CEP	CEP	
MAX	11.0	11.2	11.3	11.4	10.1	10.1	10.0	10.0	11.2	11.2	10.1	10.4	6.7	8.8	11.1	11.7	11.7	8.5	9.3	7.6	7.6	12.2	12.4	
MIN	11.8	12.5	11.9	12.4	10.9	10.9	10.6	10.6	11.7	11.7	10.9	11.1	9.8	9.8	11.9	11.3	11.1	9.6	10.0	8.0	8.0	14.2	13.2	
DUR	5	5	5	4	5	5	3	3	4	4	5	5	4	4	4	3	3	4	5	5	5	4	5	
TOT													2											
						(S)		(S)		(S)							(S)				(S)			
0- 1		6.5					4.0			1.5		2.0				4.0	9.0				1.5	10.0	5.5	
1- 2		6.5			2.5			2.0				10.5			5.0	10.0	5.0	4.0	5.5	10.0			9.5	
2- 3		6.5	1.5	1.5		7.0			9.0		9.5					6.0	1.0						9.0	
3- 4		6.5	5.0	7.5						3.5						2.0	7.0	12.0	8.5				9.0	
4- 5		6.5	9.0									4.0	4.5	10.5		8.0	3.0			3.5			8.5	
5- 6		6.5					10.0		11.0		8.5			8.5		4.0	9.0						8.0	3.0
6- 7		6.0			2.0			8.0		5.5				6.0			5.0						8.0	
7- 8		6.0		1.0		6.5	4.5							3.5		6.5	1.5						7.5	
8- 9		6.0		7.0				2.0			7.0	5.5		1.5		2.5	7.5	4.0			6.0	7.0	9.0	
9-10		6.0								7.5			4.5			8.5	3.5						7.0	
10-11		6.0	4.0						2.5						10.0	4.5	9.5						6.5	
11-12		6.0	8.0		1.5						5.5						5.5						6.0	
12-13		6.0	11.5	1.0		6.0	10.5		10.0		7.5					6.5	1.5			8.0			6.0	
13-14		6.0		6.5			8.0	4.5						11.0		2.5	7.5						5.5	6.5
14-15		6.0					4.5			4.5			4.0	8.5		8.5	3.5		1.5				5.0	
15-16		6.0						2.0		12.0				6.5		4.5	9.5	4.5		1.5			5.0	
16-17		6.0			1.0				6.5		12.0			4.0		0.5	5.5		5.0		10.5		4.5	
17-18		6.0	3.0			5.5				1.0	3.0			1.5		6.5	1.5						4.0	
18-19		6.0	6.5	6.5												3.0	8.0		8.5				4.0	4.0
19-20		6.0	10.5				10.5		8.5			2.0	3.5			9.0	4.0				4.0		3.5	
20-21		5.5						8.0		3.0	2.0	11.0				5.0	10.0		12.0				3.0	
21-22	11.0	5.5					4.5									1.0	6.0						3.0	10.0
22-23		5.5				5.0		2.0	10.5					11.5		7.0	2.0	5.0					2.5	
23-24		5.5		6.0					5.0	0.5	4.0			9.0		3.0	8.0			6.0			2.0	1.5
24-25		5.5	1.5	12.0						12.0			3.5	6.5	5.0	9.0	4.0						2.0	
25-26	8.5	5.5	5.5											4.5		5.0							1.5	
26-27		5.5	9.5				10.5			7.0				2.0		1.0	6.0						1.0	7.5
27-28		5.5				4.5		8.0	1.5		10.5	5.5				7.0	2.0			8.5		1.0		
28-29		5.5		5.5	11.5		4.5									3.0	8.0							
29-30	6.0	5.5		11.5				2.0		9.0			3.0			9.0	4.0	5.0	1.5					

MAS Eclipsing Binary Ephemeris for September 2025

all times in U.T.

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	DV	EG	EK	GK	SS	TT	TW	TW	TX	RW	RW	RZ	RZ	SS	SS	CC	CC	U	RW	TW	Y	SW	WW
	CEP	CEP	CEP	CEP	CET	CET	CET	CET	CET	COM	COM	COM	COM	COM	COM	COM	COM	CRB	CRB	CRB	CYG	CYG	CYG
MAX	11.6	9.6	8.2	6.9	9.4	10.8	10.4	10.4	10.9	11.0	11.0	10.0	10.0	10.9	10.9	11.0	11.0	7.6	10.1	10.5	7.0	9.3	9.9
MIN	12.4	10.6	9.5	7.4	13.0	11.3	11.2	11.2	11.5	11.6	11.6	10.7	10.7	11.5	11.5	11.9	11.9	8.8	10.6	11.3	7.6	11.8	13.2
DUR	4	3	6	4	5	3	3	3	4	3	3	3	3	4	4	2	2	5	4	4	6	5	5
TOT					2				1														2
								(S)		(S)		(S)		(S)		(S)				(S)			
0- 1	4.5	7.5			7.5	6.0		7.0	8.5	1.5				1.0									
1- 2	8.5	10.0				5.5		6.0						1.5					1.0				
2- 3		12.0				5.0														2.5			5.0
3- 4		1.0		12.0	7.0	4.0	7.0		7.5		1.0						1.0						
4- 5		3.0		10.5			6.0							0.5		1.0						3.5	
5- 6		5.5	5.5	9.0			5.0			1.0					1.5		1.0			1.5			
6- 7		7.5		7.5	6.5			7.5	7.0							0.5		3.0					
7- 8	4.0	9.5		6.0				6.0			1.5						0.5						
8- 9	7.5	11.5		4.5				5.0															
9-10	11.5	1.0		3.0	6.0				6.0										1.0	4.5			
10-11		3.0		1.5		11.0	6.5			1.0		1.0											
11-12		5.0				10.5	5.5		11.5			1.0		1.0					5.0				
12-13		7.0			5.0	10.0			5.0		1.0	1.5								3.0			3.5
13-14		9.5				9.0		6.5														7.0	
14-15	3.0	11.5	2.0			8.5		5.5	10.5	1.5									3.0				
15-16	7.0	0.5			4.5	7.5			4.0											1.5			
16-17	11.0	2.5				7.0	7.0																
17-18		5.0				6.5	6.0		9.5		1.0				1.0				0.5				
18-19		7.0		11.5		5.5								1.5			1.5						
19-20		9.0		10.0		5.0		7.0		1.5						1.0			5.0	4.5			
20-21		11.0		8.5		4.5		6.0	8.5								1.0						
21-22	2.5			7.0				5.0			1.5		1.0			1.0					10.5		
22-23	6.5	2.5		5.5			7.5						1.0				0.5		2.5	3.0		10.5	2.5
23-24	10.0	4.5		4.0			6.5		8.0				1.5			0.5							
24-25		6.5		2.5			5.0			1.0					1.0						10.0		
25-26		9.0		1.0																2.0			10.0
26-27		11.0						6.5	7.0		1.5												
27-28			8.5			11.5		5.5										4.0	4.5		10.0		
28-29	2.0	2.0				10.5				1.5										0.5			
29-30	5.5	4.5				10.0	7.0		6.0	0.5										5.0			

	ZZ	AE	BR	CG	DK	KR	KV	MY	MY	V346	V387	V388	V401	V456	V466	V466	V477	V477	V548	V704	1034	W	TT
	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG	CYG	DEL	DEL
MAX	10.7	11.8	9.4	11.0	10.3	9.2	11.5	8.3	8.3	11.8	11.5	9.7	10.8	10.8	10.8	10.8	8.3	8.3	8.9	13.8	9.6	9.4	10.6
MIN	12.0	12.8	10.5	11.8	10.8	10.0	12.6	9.0	9.0	13.6	12.3	10.3	11.6	11.9	11.6	11.6	9.2	8.7	9.7	14.6	10.6	12.7	12.5
DUR	4	4	4	3	4	4	5	4	4	5	3	3	4	3	4	4	4	4	5	4	4	7	5
TOT																						2	
									(S)							(S)		(S)					
0- 1		10.5			1.0	3.5				4.5	7.5	8.5	3.0	9.5	2.0					12.0	9.0		
1- 2	2.5	9.5		2.5	11.0				4.0			5.0	7.0	7.0						1.5	8.5		
2- 3	8.5	9.0	2.5	9.0	9.5		4.0				6.0	1.5		4.5		4.0		2.5		5.0	8.0		
3- 4		8.0			8.5			4.0					1.0	1.5						8.5	7.5		
4- 5	6.0	7.5		6.5	7.0	9.0					4.0		5.0		6.0				8.5	11.5	7.0	4.5	
5- 6		7.0			5.5	5.0			4.0	10.5		9.0								1.5	6.5		
6- 7	3.0	6.0	2.5	4.0	4.0	1.5					2.0	8.5				8.0	2.5		3.5	5.0	6.0	7.5	
7- 8	9.5	5.5		10.0	2.5			4.5			9.0	5.5	3.0		1.0					8.0	5.5		
8- 9	0.5	4.5		1.5	1.5					10.0		2.0	6.5	10.0						11.5	4.5		
9-10	6.5	4.0		7.5	11.0				4.5		7.0			7.5		3.0		3.5		1.5	4.0	4.0	
10-11		3.0	2.5		9.5	7.0							0.5	5.0						4.5	3.5		
11-12	4.0	2.5		5.0	8.5	3.0		4.5		4.0	5.0		4.5	2.0	5.0					8.0	3.0		
12-13	10.0	1.5			7.0							9.0	8.5							11.5	2.5	1.0	
13-14	1.0	1.0		2.5	5.5			4.5			3.0	5.5				7.0	3.5		9.0	1.0	2.0		
14-15	7.5		2.5	9.0	4.0						10.0	2.0	2.5							4.5	1.5		
15-16			10.5		2.5	8.5		4.5			1.5		6.5		9.5				4.5	8.0	1.0		
16-17	4.5			6.0	1.5	5.0	8.5				8.0			10.5		2.0		4.5		11.5			
17-18	11.0				11.0	1.0			4.5				0.5	8.0						1.0			
18-19	2.0		2.5	3.5	10.0						6.0	9.5	4.5	5.5	4.0					4.5			
19-20	8.0		10.5	10.0	8.5		5.0	4.5		9.5		6.0	8.5	2.5						8.0			
20-21				1.0	7.0							4.5	2.5				6.0	4.5		11.0			
21-22	5.5			7.5	5.5	6.5			4.5		11.0		2.5							1.0			
22-23			2.5		4.0	3.0	1.0			3.5	2.5		6.5		8.5				9.5	4.5			
23-24	2.5		10.5	5.0	3.0			5.0			9.0					1.0		5.5		7.5			
24-25	9.0				1.5							9.5							5.0	11.0			
25-26				2.5	11.0				5.0		7.5	6.0	4.5	8.5	3.0					1.0			
26-27	6.0		2.5	8.5	10.0	8.5						3.0	8.5	6.0						4.0			
27-28			10.5		8.5	4.5		5.0			5.5			3.0		5.0	5.5			7.5			
28-29	3.5			6.0	7.0	1.0							2.5	0.5						11.0		5.0	
29-30	9.5				5.5				5.0		3.5		6.0		7.5					0.5			6.5

	TU	UX	CC	CT	DI	DI	HS	HS	LT	V728	68	WY	WY	AV	DI	SW	SW	VX	AR	AW	CM	CO	CO	
	HER	HER	HER	HER	HER	HER	HER	HER	HER	HER	HER	HYA	HYA	HYA	HYA	LAC	LAC	LAC	LAC	LAC	LAC	LAC	LAC	LAC
MAX	10.6	8.9	9.5	9.9	8.4	8.4	8.5	8.5	10.7	10.9	4.7	10.3	10.3	10.2	11.0	9.2	9.2	10.9	7.3	10.6	8.5	10.5	10.5	
MIN	13.4	9.8	12.8	11.2	9.1	9.1	9.0	9.0	11.1	11.5	5.4	11.1	11.1	10.6	12.0	10.0	10.0	12.3	8.2	11.3	9.5	11.0	11.0	
DUR	5	5	4	4	6	6	4	4	4	3	5	3	3	4	4	3	3	4	6	5	4	5	5	
TOT	1																		2					
						(S)		(S)					(S)				(S)						(S)	
0- 1		4.5										10.0				4.0			9.5			7.0		
1- 2							5.0				3.0		12.0			3.5	7.0				2.5		1.0	
2- 3								1.5		7.0						2.5	6.5		9.0					
3- 4				2.5						6.0	4.0					1.5	5.5	1.0				9.0		
4- 5										4.5						0.5	4.5	2.5	8.5	4.0	7.5		3.0	
5- 6										3.0	5.5	10.5				7.5	3.5	4.5		7.0				
6- 7						7.5	3.0			1.5				11.0		6.5	2.5	6.0	8.0	10.5		11.0		
7- 8											6.5					5.5	1.5	8.0					5.0	
8- 9	3.5		4.5													4.5	1.0	10.0	7.5					
9-10									2.0					12.0		3.5	7.5	11.5			3.0			
10-11								6.0	4.0	7.5		11.0				3.0	6.5		7.0				7.0	
11-12		1.0					1.0			6.0						2.0	6.0					2.0		
12-13				1.0						4.5						1.0	5.0		7.0	4.0	8.0			
13-14										3.5							4.0			7.0			9.0	
14-15		3.0					7.5			2.0						7.0	3.0		6.5	10.5		4.0		
15-16			2.5					4.0		0.5		11.0				6.0	2.0							
16-17																5.0	1.0		6.0				11.0	
17-18	5.5	5.5												11.5		4.0					3.5	6.0		
18-19																3.5	7.0	2.0	5.5					
19-20				4.5	7.0		5.5			6.5						2.5	6.0	3.5						
20-21								2.0		5.0		11.5				1.5	5.5	5.5	5.0	4.0	8.5	8.0		
21-22										3.5				12.0		0.5	4.5	7.5		7.5			2.0	
22-23			1.0						2.0	2.5						7.5	3.5	9.0	5.0	10.5				
23-24									4.0	1.0						6.5	2.5	11.0				10.0		
24-25							3.0						10.0			5.5	1.5		4.5				4.0	
25-26												11.5				4.5	1.0				4.5			
26-27																3.5	7.5		4.0					
27-28										6.5						3.0	6.5						6.0	
28-29		1.5		3.0				6.5		5.5						2.0	5.5		3.5	4.0	9.5	1.0		
29-30							1.0			4.0			10.0			1.0	5.0			7.5				

	DG	GX	MZ	MZ	Y	UU	VZ	WZ	XZ	RR	SS	RY	UZ	EW	FL	RU	RU	RW	BB	BO	EP	U	SX
	LAC	LAC	LAC	LAC	LEO	LEO	LEO	LEO	LEO	LEP	LIB	LYN	LYR	LYR	LYR	MON	MON	MON	MON	MON	MON	OPH	OPH
MAX	10.8	10.1	11.2	11.2	9.5	11.4	10.6	11.3	10.6	10.2	10.4	11.9	9.8	11.2	8.7	10.6	10.6	9.1	10.6	10.8	10.5	5.8	10.5
MIN	12.0	10.4	12.1	12.1	12.7	12.7	11.7	12.0	11.2	10.9	11.3	13.3	11.0	13.6	9.5	11.3	11.3	11.9	11.3	12.1	11.1	6.5	11.2
DUR	4	6	4	4	5	4	4	5	3	4	6	4	5	5	4	5	5	5	4	5	5	5	5
TOT																		1		1			
				(S)													(S)						
0- 1																							
1- 2				10.5								9.5								11.0			
2- 3							11.5																
3- 4			1.5								2.0										9.5		
4- 5																							
5- 6										10.5									11.5				
6- 7	5.5		5.5							8.5													
7- 8															3.0								
8- 9	10.0																	11.0	9.5				
9-10			9.0										8.0	7.5									
10-11					10.5			10.0											9.0				
11-12									11.5			10.5	5.5								10.0		
12-13						11.5			11.0													1.0	
13-14													2.5										
14-15				1.5			11.5																
15-16	1.0				12.0																		
16-17										10.0	0.5								11.0				
17-18	6.0			5.5				11.0		8.0								9.5				1.5	
18-19		6.5													0.5								
19-20	11.0																			9.5	11.0		
20-21				9.0																	11.5		
21-22												11.5											1.0
22-23														6.5	9.0							2.5	
23-24																10.5							2.5
24-25												8.5		5.0									
25-26			4.0																				
26-27	2.0						11.0			11.5	2.0		8.5	4.0									
27-28										9.5									11.0		12.0	3.0	
28-29	7.0		8.0							7.5			6.0	2.5									
29-30																		10.5					

	V501	V508	V839	1010	1010	EF	EF	EQ	ER	ER	ET	FH	FL	FR	FT	FZ	FZ	GU	GU	U	U	TY	UX	
	OPH	OPH	OPH	OPH	OPH	ORI	ORI	ORI	ORI	ORI	ORI	ORI	ORI	ORI	ORI	ORI	ORI	ORI	ORI	PEG	PEG	PEG	PEG	
MAX	10.9	10.1	8.8	6.2	6.2	12.6	12.6	10.3	9.5	9.5	11.2	10.5	10.5	11.0	9.1	10.7	10.7	12.6	12.6	9.7	9.7	10.5	10.7	
MIN	11.8	10.7	9.4	7.0	7.0	14.1	12.8	13.3	10.2	10.2	12.4	11.5	13.2	11.9	9.7	11.3	11.3	13.5	13.5	10.5	10.5	12.6	12.0	
DUR	4	3	3	4	4	6	6	4	3	3	5	5	3	4	4	3	3	4	4	3	3	6	5	
TOT																								
					(S)		(S)			(S)								(S)	(S)		(S)			
0- 1	7.0						10.0			7.5	8.5			8.5		9.0		10.0		9.0	4.5			
1- 2	6.0	1.0	3.5						9.0	9.0		7.5		7.5				9.0	9.0		2.5	7.0		
2- 3	5.5	2.0			4.0													9.0		7.5	5.5	1.0	6.0	
3- 4	4.5	2.5	4.5	3.5								10.0						9.0			8.5	4.0	1.5	
4- 5	3.5	3.5			3.5	11.0			8.0				9.5					9.0		10.0	2.5	7.0		
5- 6	3.0	4.5	5.5	3.0						9.5								9.0		9.0	5.5	1.0	8.0	
6- 7	2.0	5.0	1.5		3.0													9.0		7.5	8.5	4.0	3.5	
7- 8	1.5	6.0		3.0					7.5					10.5				9.0			2.5	7.0		
8- 9	0.5		2.5	2.5	2.5			9.0		8.5				7.5		9.0		10.0			5.5	1.0	10.5	
9-10				2.5		7.5			10.0									9.0	9.0		8.5	4.0	5.5	
10-11			3.5		2.0													9.0		7.5	2.5	7.0		
11-12		1.0		2.0						8.0								9.0			5.5	1.0		
12-13		2.0	4.5	2.0					9.5									9.0		10.5	8.5	4.0	7.5	
13-14		2.5		1.5		9.0												9.0		9.0	2.5	7.0		
14-15		3.5	5.5	1.5	1.5									12.0		9.0			7.5	5.5	1.0			
15-16		4.5	1.0	1.5				8.5	8.5					9.0	8.0			9.0			8.5	4.0	10.0	
16-17		5.0			1.0					10.0		7.5						9.0		10.5	2.5	7.0		
17-18		6.0	2.5	1.0		10.0					11.5							9.0	9.0		5.5	1.0		
18-19					0.5				7.5		10.0	11.0	8.5		12.0	9.0		9.0	7.5		8.5	4.0		
19-20			3.5	0.5						9.0	9.0							9.0			2.5	7.0		
20-21											8.0							9.0			5.5	1.0	1.0	
21-22		1.0	4.5				11.0				6.5		11.0					9.0		9.0	8.5	4.0		
22-23		2.0						8.0		8.0					10.5			9.0		7.5	2.5	7.0		
23-24		2.5	5.5						9.5					8.0				9.0			5.5	1.0	3.0	
24-25		3.5	1.0															9.0		10.5	8.5	4.0		
25-26		4.5																9.0	9.0		2.5	7.0		
26-27		5.0	2.5				8.0		8.5									9.0	7.5		5.5	1.0	5.5	
27-28		6.0								10.0								9.0			8.5	4.0		
28-29			3.5															9.0		10.5	2.5	7.0		
29-30								7.5	7.5									9.0		9.0	5.5	1.0	7.5	

	AQ	AQ	AQ	BB	BB	BG	BX	DI	GP	KW	KW	Z	RT	ST	XZ	IQ	IQ	IT	IU	KW	V432	BETA	AE
	PEG	PEG	PEG	PEG	PEG	PEG	PEG	PEG	PEG	PEG	PEG	PER	PER	PER	PER	PER	PER	PER	PER	PER	PER	PER	PHE
MAX	10.3	10.3	10.3	10.6	10.6	10.5	10.9	9.6	10.2	12.1	12.1	9.9	10.6	9.7	10.6	7.7	7.7	9.9	10.5	10.5	11.0	2.2	7.5
MIN	13.0	13.0	13.0	11.2	11.2	11.8	11.5	10.8	11.0	12.4	12.4	12.4	12.0	13.2	12.7	8.3	7.9	10.5	11.6	11.5	11.7	3.5	8.2
DUR	12	12	12	3	3	4	3	2	4	3	3	6	4	5	4	5	5	4	5	4	3	8	2
TOT	4	4	4			1						2		1									
	(2)		(3)		(S)						(S)						(S)						
0- 1				5.5	1.0			8.0		6.0			4.5						3.0	3.5	7.0		
1- 2			1.0	7.5	3.0		3.0	1.0		1.5								9.5		1.5			
2- 3				1.0	5.0		6.0	11.5			7.0	12.0										5.0	6.0
3- 4				3.0	7.5		2.5	4.5			2.5											8.5	8.0
4- 5				5.0	0.5		5.5			8.0			10.5			11.5		11.0	9.5		3.0		
5- 6				7.0	2.5		1.5	8.0		3.5			7.0	5.5	5.0		6.5		6.5		6.5		
6- 7					4.5		4.5	1.0			9.0		3.5		8.5	5.5			3.0				5.5
7- 8				2.5	6.5		0.5	11.0			4.5											4.5	7.5
8- 9				4.5			3.5	4.0		10.0												8.0	
9-10				6.5	2.0	10.5	6.5			5.5										11.0	2.5		
10-11				8.5	4.0		2.5	7.5		1.0	11.0		9.5						9.5	9.0	6.0		
11-12				2.0	6.0	9.5	5.5				6.5		5.5			11.0			6.5	7.5			7.5
12-13	1.5	3.5		4.0	8.0		1.5	10.5			2.0						6.0	3.0	3.0	6.0	4.0		
13-14				6.0	1.5	8.5	4.5	3.5		7.5				4.0	6.5	5.0				4.5	7.5		
14-15				8.0	3.5		1.0			3.0					10.0					2.5			
15-16				1.0	5.5	7.0	3.5	7.0			8.5		11.5					4.5		1.0	5.5		7.0
16-17				3.5	7.5		6.5		11.5		4.0		8.0						9.5			9.5	
17-18				5.5	1.0	6.0	3.0	10.0	11.0	9.5			4.5				11.5		6.5		3.5		
18-19				7.5	3.0		6.0	3.5	10.5	5.0				11.5		10.5		6.0	3.0		7.5		
19-20				0.5	5.0	5.0	2.0		10.0	0.5	10.5						5.5					6.0	6.5
20-21				2.5	7.0		5.0	6.5	9.5		6.0					4.0	4.0					5.5	
21-22				4.5		3.5	1.0		9.0		1.5		10.5	3.0	7.5			8.0				9.0	
22-23				7.0	2.5		4.0	10.0	8.0	7.0			6.5		11.5				9.5	12.0	3.5	3.0	
23-24	2.0	4.0	6.0		4.5	2.5		3.0	7.5	2.5			3.0						6.0	10.0	7.0		6.5
24-25				2.0	6.5		3.0		7.0		8.0						11.0	9.5	3.0	8.5			8.5
25-26				4.0	8.5	1.5	6.0	6.0	6.5		3.5					10.0				7.0	5.0		
26-27				6.0	2.0		2.0		6.0	9.0				10.0			4.5			5.0	8.5		
27-28				8.0	4.0		5.0	9.5	5.5	4.5			9.0			3.5		11.0		3.5	3.0		6.0
28-29				1.5	6.0		1.5	2.5	4.5		10.0		5.5		5.5				9.5	2.0	6.5		8.0
29-30				3.5	8.0		4.0		4.0		5.5				9.0				6.0				

all times in U.T.

	AE	Y	RV	UZ	UZ	U	V505	1968	RS	AO	CC	CC	RW	RZ	TY	WY	AQ	CT	EQ	EQ	HU	V	X
	PHE	PSC	PSC	PUP	PUP	SGE	SGR	SGR	SER	SER	SER	SER	TAU	TAU	TAU	TAU	TAU	TAU	TAU	TAU	TAU	TAU	TAU
MAX	7.5	9.0	11.3	9.7	9.7	6.4	6.4	12.3	10.8	10.6	11.1	11.1	8.0	10.5	11.5	11.5	12.0	10.2	10.3	10.3	6.0	10.9	8.9
MIN	8.2	12.0	12.0	10.6	10.3	9.1	7.6	13.3	11.5	12.1	11.7	11.7	12.5	11.2	12.0	11.7	12.9	11.5	11.0	11.0	6.8	11.9	12.0
DUR	2	7	3	4	4	6	5	4	4	4	4	4	4	3	2	4	5	5	3	3	6	4	4
TOT						2							1										
	(S)				(S)							(S)							(S)				
0- 1	6.0		10.0			3.0		0.5				2.5					8.0		7.0			5.5	11.5
1- 2	8.0							3.5	3.0			3.0	6.5	7.0		7.0			7.5			10.0	11.0
2- 3			1.5									4.0											10.5
3- 4			4.5											9.0		8.5				5.0	4.0	9.5	
4- 5	6.0		7.0						3.0	4.0										5.5	8.0	9.0	
5- 6	8.0		9.5				3.5	2.5		1.0						10.5				6.0		8.5	
6- 7											1.0		7.0				9.5			6.5	2.0	7.5	
7- 8			1.5						2.5		1.5									7.0	6.5	7.0	
8- 9	5.5	11.5	4.0								2.5			9.0						7.5	10.5	6.0	
9-10	7.5		6.5					1.0			3.0				7.0								5.5
10-11			9.0		11.5	6.5		4.0	2.5		4.0				9.0	7.0				4.5	4.5	5.0	
11-12			12.0				1.5			4.5				6.5	10.5		6.5			5.5	8.5	4.0	
12-13		6.0		11.5			5.5			2.0			8.0			9.0	11.5			6.0		3.5	
13-14	7.0		3.5						2.0					8.5						6.5	2.5	3.0	
14-15			6.0		11.0			2.5			1.0					10.5				7.0	7.0		
15-16			9.0								1.5									7.5		11.0	
16-17			11.5	11.0					2.0					6.5									
17-18	7.0					0.5					3.0						8.5			4.5	5.0		
18-19			3.5		10.5		3.5	1.0			4.0			8.0						5.5	9.0		
19-20			6.0					4.5	1.5	2.5						7.0				6.0			
20-21			8.5	10.0																6.5	6.5	3.0	
21-22	6.5		11.0											6.0		9.0				7.0	7.5		
22-23	8.5								1.5		0.5						5.0			7.5	8.0	11.5	
23-24			3.0					3.0			1.5		10.0	8.0	7.0	11.0	10.0			8.0			
24-25			5.5				1.5				2.5				9.0					4.5	9.0	5.5	
25-26	6.0		8.0				6.0		1.5		3.0			10.0	11.0					5.0		9.5	
26-27	8.5		10.5							3.5	4.0		4.5	6.0						6.0	10.5		
27-28		7.5				4.0		1.5		0.5										6.5		4.0	
28-29			2.5					4.5	1.0					7.5		7.5	7.0			7.0	12.0	8.0	
29-30	6.0		5.0															6.0	7.5			12.0	

	RS	RV	W	TX	TY	TY	UX	UX	VV	XZ	ZZ	AF	W	RU	VV	AH	AW	AW	AX	AZ	AZ	BH	MS
	TRI	TRI	UMA	UMA	UMA	UMA	UMA	UMA	UMA	UMA	UMA	UMA	UMI	UMI	VIR	VIR	VIR	VIR	VIR	VIR	VIR	VIR	VIR
MAX	10.3	11.4	9.1	6.8	11.7	11.7	12.7	12.7	10.1	10.1	9.8	10.8	8.6	10.7	11.7	9.7	10.8	10.8	10.0	11.0	11.0	9.9	9.4
MIN	11.0	12.5	9.9	8.9	12.4	12.4	13.8	13.8	11.0	11.7	11.2	11.6	9.7	11.4	13.5	10.2	11.9	11.9	10.8	11.8	11.8	11.3	9.7
DUR	4	4	3	6	3	3	1	1	3	3	4	8	7	4	4	4	3	3	4	3	3	4	3
TOT																							
			(S)			(S)										(S)		(S)			(S)		
0- 1		4.5	1.5					4.5						9.5	0.5						1.0		
1- 2			1.5		2.0		4.5							11.0									1.0
2- 3	11.0	10.5	1.5		3.5			4.0															
3- 4		4.5	1.5			1.0	3.5			9.0			5.0	0.5		1.0							
4- 5	9.0		1.5			2.5		3.0	8.5		6.0	9.0		2.0	1.0						1.5		
5- 6		11.0	1.5			4.0	2.5		1.0					3.0									
6- 7	6.5	5.0	1.5		1.0			2.5	10.0					4.5									1.0
7- 8			1.5		2.5		2.0							5.5			0.5			1.0			
8- 9	4.5	11.0	1.5		4.0			1.5	11.5				7.5	6.5	1.5								
9-10		5.5	1.5			1.5	1.0			11.5				8.0					1.0				
10-11	2.5		2.0			3.0		0.5						9.0			1.0						
11-12		11.5	2.0								3.5			10.5							1.5	1.5	1.0
12-13		5.5	2.0		2.0		4.5							11.5									
13-14			2.0		3.5			4.5			10.5		10.0				1.0						
14-15		12.0	2.0			0.5	4.0			9.0				1.5						0.5			
15-16		6.0				2.0		3.5	8.5				3.0	2.5									
16-17						3.5	3.0		1.0					3.5			1.0		1.5				1.0
17-18					1.0			2.5	10.0					5.0									
18-19		6.5			2.5		2.5				1.0			6.0							1.5		
19-20					4.0			2.0	11.5					7.0			1.5						
20-21				1.5		1.5	1.5			11.5	8.0	3.5	5.5	8.5								1.0	
21-22		6.5				3.0		1.0						9.5						0.5			0.5
22-23							0.5							11.0						2.0			
23-24	11.0				1.5		5.0																
24-25		7.0			3.0			4.5						0.5									
25-26	9.0						4.0			9.0	10.0		7.5	2.0							1.0		
26-27						2.0		4.0	8.5					3.0									0.5
27-28	6.5	7.5				3.5	3.5		1.0		5.5		0.5	4.0		0.5							
28-29				0.5				3.0	9.5					5.5									
29-30	4.5				2.5		2.5							6.5	0.5					1.5		1.0	

	NY	Z	AW	AX	AY	BE	BO	BS	BT	BU	CD	V495	V495
	VIR	VUL	VUL	VUL	VUL	VUL	VUL	VUL	VUL	VUL	VUL	VUL	VUL
MAX	13.3	7.4	10.8	11.0	11.0	9.9	10.4	11.0	11.8	10.6	11.5	9.6	9.6
MIN	14.2	9.2	11.9	12.5	12.9	11.4	13.3	11.5	12.5	11.4	12.6	10.0	10.0
DUR	1	6	5	5	4	5	4	3	3	3	4	4	4
TOT													
													(S)
0- 1	1.0					6.0		2.5		9.5	5.0		7.5
1- 2	1.0		9.5		7.0			1.5	1.5			2.0	
2- 3			5.0						5.0	2.5	6.0		
3- 4						8.5			8.0	6.0			
4- 5							8.0			9.0	7.5	8.5	
5- 6								8.0					5.5
6- 7			5.5		3.0		6.5	7.0		2.0	8.5		
7- 8			1.0					6.0		5.5	1.0		
8- 9	0.5						5.0	4.5		8.5			
9-10	1.0			1.0				3.5	1.0		2.0	6.5	
10-11	1.0	8.5	6.5				4.0	2.5	4.5	1.5			3.0
11-12	1.0		1.5	1.5		2.5		1.0	8.0	5.0	3.5		
12-13							2.5			8.5			
13-14				2.0	8.5						4.5		
14-15			7.0			5.0	1.5			1.0		4.0	
15-16		6.0	2.5	2.5				8.0		4.5	6.0		0.5
16-17								7.0		8.0			
17-18				3.0		7.5		5.5	1.0		7.0		
18-19	0.5		8.0		4.5			4.5	4.5	1.0			7.0
19-20	1.0		3.5	4.0				3.5	7.5	4.0	8.5	1.5	
20-21	1.0	4.0						2.5		7.5	1.0		
21-22	1.5			4.5				1.0			9.5		
22-23			8.5								2.0	8.0	
23-24			4.0	5.0						3.5			5.0
24-25										7.0	3.0		
25-26		2.0		5.5		1.5		8.0	0.5				
26-27			9.5					7.0	4.0		4.5		
27-28			5.0	6.0				5.5	7.5	3.5		6.0	
28-29	0.5					4.0		4.5		6.5	5.5		2.5
29-30	1.0			7.0				3.5		10.0			