

## Pacific Swimming Age Group Time Standards

### Junior Olympic Meets

**Age Groups:** Single Age Groups for ~~9&Under, 10,~~ 10&Under, 11, 12, 13, 14

**Meet Length:** 3 days at 2 sites, each with 16 lanes (scy) or 8 lanes with two ends for starts (lcm)

**Meet Format:** Prelims and Finals, with relays for 10&Under, 11-12, 13-14

**Order of Events and Timeline:** See attached

**Time Standards:** Using the proposed order of events, we hoped to set a time standard for each event that allowed for 3 heats of each event at each site (6 heats x 8 lanes = 48 + 5 to account for a 10% scratch = 53). This allowed for more swimmers in undersubscribed age groups. As this format introduces the single age events, it proved impossible to find data to accurately predict what this time standard would be as there were only a few events in the last three years that had more than 53 entries of a single age.

**AGC Recommendation:** For March and July of 2017, use the AA time for 10&Unders and the Single Age AA for 11, 12, 13, 14, and re-evaluate after March and July 2016 JO Meets.

To set the time standard in the future, Pacific Swimming Staff would use the average 53<sup>rd</sup> place entry time from each combined JO meet to set the entry time for each event (or estimate that time if an event averages fewer than 53 entries) and re-evaluate after the July JO meets each year.

*However, the time standard for any event may not be slower than the time standard for the same event in a younger age group.*

### Far Westerns Meets

**Age Groups:** 10&Under, 11-12, 13-14, 15-16, 17-18

**Meet Length:** 4 days at 1 site with 16 lanes (scy) or 8 lanes with two ends for starts (lcm)

**Meet Format:** Prelims and Finals, with relays for 10&under, 13-14, 15-18

**Order of Events and Timeline:** See attached

**Time Standards:** Using the proposed order of events, we hoped to set a time standard for each event that allowed for 5 heats of each event (5 heats x 8 lanes = 40 + 4 to account for a 10% scratch = 44). This allowed for more swimmers in undersubscribed age groups. It proved difficult to find recent data to accurately predict what this time standard would be.

**AGC Recommendation:** Pacific Swimming Staff would use the average of the 44<sup>th</sup> place entry time from the 2009 to 2016 Far Westerns Meets to set the entry time for each event (or estimate that time if an event averages fewer than 44 entries) and re-evaluate after July 2016 FW.

*However, the time standard for any event may not be slower than the time standard for the same event in a younger age group.*

# JO Timeline and Order of Event Study

(using AA time and :20 interval for prelims)

Age	Gender	Event	prelims # of heats (split between 2 pools with 8-lane courses each)	prelims time per event	finals time per event
14	Girls	200 Free	6	0:07:19.47	0:03:06.49
13	Girls	200 Free	6	0:07:27.57	0:03:09.19
12	Girls	200 Free	6	0:07:37.47	0:03:12.49
11	Girls	200 Free	6	0:07:55.17	0:03:18.39
10&Under	Girls	200 Free	6	0:08:27.27	0:03:29.09
12	Girls	100 IM	6	0:04:30.27	0:02:10.09
11	Girls	100 IM	6	0:04:41.37	0:02:13.79
10&Under	Girls	100 IM	6	0:04:53.07	0:02:17.69
14	Girls	100 Fly	6	0:04:12.27	0:02:04.09
13	Girls	100 Fly	6	0:04:16.77	0:02:05.59
12	Girls	100 Fly	6	0:04:26.97	0:02:08.99
11	Girls	100 Fly	6	0:04:35.07	0:02:11.69
10&Under	Girls	100 Fly	6	0:05:00.57	0:02:20.19
14	Girls	200 Breast	6	0:08:59.37	0:03:39.79
13	Girls	200 Breast	6	0:09:09.27	0:03:43.09
12	Girls	200 Breast	6	0:09:27.57	0:03:49.19
11	Girls	200 Breast	6	0:09:50.97	0:03:56.99
12	Girls	50 Back	6	0:02:35.67	0:01:31.89
11	Girls	50 Back	6	0:02:40.17	0:01:33.39
10&Under	Girls	50 Back	6	0:02:48.57	0:01:36.19
			<b>120</b>	<b>2:00:54.90</b>	<b>0:53:38.30</b>

## Distance

14	Girls	1650 Free	6	0:59:05.07
13	Girls	1650 Free	6	1:00:42.27
12	Girls	1650 Free	6	1:02:43.77
11	Girls	1650 Free	6	1:06:09.57
			<b>24</b>	<b>4:08:40.68</b>

End of Morning Session 6:09:35.58

## Relays

13/14	Girls	200 MR	3	
13/14	Boys	200 MR	3	
11/12	Girls	200 MR	3	
11/12	Boys	200 MR	3	
10&Under	Girls	200 MR	3	
10&Under	Boys	200 MR	3	

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Age	Gender	Event	prelims time per event	prelims time per event (in 8 lanes)	finals time per event
14	Boys	200 Free	6	0:06:55.17	0:02:58.39
13	Boys	200 Free	6	0:07:11.67	0:03:03.89
12	Boys	200 Free	6	0:07:27.57	0:03:09.19
11	Boys	200 Free	6	0:07:53.37	0:03:17.79
10&Under	Boys	200 Free	6	0:08:14.97	0:03:24.99
12	Boys	100 IM	6	0:04:24.27	0:02:08.09
11	Boys	100 IM	6	0:04:38.37	0:02:12.79
10&Under	Boys	100 IM	6	0:04:50.97	0:02:16.99
14	Boys	100 Fly	6	0:03:58.77	0:01:59.59
13	Boys	100 Fly	6	0:04:05.37	0:02:01.79
12	Boys	100 Fly	6	0:04:21.27	0:02:07.09
11	Boys	100 Fly	6	0:04:35.97	0:02:11.99
10&Under	Boys	100 Fly	6	0:04:59.67	0:02:19.89
14	Boys	200 Breast	6	0:08:25.17	0:03:28.39
13	Boys	200 Breast	6	0:08:45.57	0:03:35.19
12	Boys	200 Breast	6	0:09:08.97	0:03:42.99
11	Boys	200 Breast	6	0:09:45.87	0:03:55.29
12	Boys	50 Back	6	0:02:34.77	0:01:31.59
11	Boys	50 Back	6	0:02:40.47	0:01:33.49
10&Under	Boys	50 Back	6	0:02:47.97	0:01:35.99
			<b>120</b>	<b>1:57:46.20</b>	<b>0:52:35.40</b>

14	Boys	1650 Free	6	0:56:22.77
13	Boys	1650 Free	6	0:58:47.67
12	Boys	1650 Free	6	1:01:56.37
11	Boys	1650 Free	6	1:06:04.77
			<b>24</b>	<b>4:03:11.58</b>

End of Morning Session 6:00:57.78

# JO Timeline and Order of Event Study

(using AA time and :20 interval for prelims)

Age	Gender	Event	prelims # of heats (split between 2 pools with 8-lane courses each)	prelims time per event	finals time per event	
Day 2	14	Girls	200 Back	6	0:07:55.17	0:03:18.39
	13	Girls	200 Back	6	0:08:07.47	0:03:22.49
	12	Girls	200 Back	6	0:08:23.37	0:03:27.79
	11	Girls	200 Back	6	0:08:46.47	0:03:35.49
	14	Girls	50 Free	6	0:02:20.97	0:01:26.99
	13	Girls	50 Free	6	0:02:23.07	0:01:27.69
	12	Girls	50 Free	6	0:02:24.57	0:01:28.19
	11	Girls	50 Free	6	0:02:28.17	0:01:29.39
	10&Under	Girls	50 Free	6	0:02:31.77	0:01:30.59
	14	Girls	100 Breast	6	0:04:41.67	0:02:13.89
	13	Girls	100 Breast	6	0:04:46.17	0:02:15.39
	12	Girls	100 Breast	6	0:04:54.57	0:02:18.19
	11	Girls	100 Breast	6	0:05:06.27	0:02:22.09
	10&Under	Girls	100 Breast	6	0:05:23.97	0:02:27.99
	12	Girls	50 Fly	6	0:02:31.77	0:01:30.59
	11	Girls	50 Fly	6	0:02:35.67	0:01:31.89
	10&Under	Girls	50 Fly	6	0:02:44.37	0:01:34.79
	14	Girls	400 IM	6	0:16:09.27	0:06:03.09
	13	Girls	400 IM	6	0:16:25.47	0:06:08.49
	12	Girls	400 IM	6	0:16:57.57	0:06:19.19
	11	Girls	400 IM	6	0:17:47.07	0:06:35.69
	10&Under	Girls	500 Free	6	0:20:34.17	0:07:31.39
			<b>132</b>	<b>2:45:59.04</b>	<b>1:09:59.68</b>	

## Distance

14	Girls	1000 Free	6	0:35:51.87
13	Girls	1000 Free	6	0:36:41.37
12	Girls	1000 Free	6	0:37:28.47
11	Girls	1000 Free	6	0:39:38.37
			<b>24</b>	<b>2:29:40.08</b>

End of Morning Session 5:15:39.12

13/14	Girls	200 FR	3	
13/14	Boys	200 FR	3	
11/12	Girls	200 FR	3	
11/12	Boys	200 FR	3	
10&Under	Girls	200 FR	3	
10&Under	Boys	200 FR	3	
			<b>18</b>	

Age	Gender	Event	prelims time per event	prelims time per event (in 8 lanes)	finals time per event
14	Boys	200 Back	6	0:07:30.27	0:03:10.09
13	Boys	200 Back	6	0:07:48.27	0:03:16.09
12	Boys	200 Back	6	0:08:11.97	0:03:23.99
11	Boys	200 Back	6	0:08:41.37	0:03:33.79
14	Boys	50 Free	6	0:02:14.97	0:01:24.99
13	Boys	50 Free	6	0:02:17.97	0:01:25.99
12	Boys	50 Free	6	0:02:21.57	0:01:27.19
11	Boys	50 Free	6	0:02:27.87	0:01:29.29
10&Under	Boys	50 Free	6	0:02:30.57	0:01:30.19
14	Boys	100 Breast	6	0:04:24.27	0:02:08.09
13	Boys	100 Breast	6	0:04:34.47	0:02:11.49
12	Boys	100 Breast	6	0:04:47.67	0:02:15.89
11	Boys	100 Breast	6	0:05:05.07	0:02:21.69
10&Under	Boys	100 Breast	6	0:05:18.87	0:02:26.29
12	Boys	50 Fly	6	0:02:30.57	0:01:30.19
11	Boys	50 Fly	6	0:02:37.17	0:01:32.39
10&Under	Boys	50 Fly	6	0:02:43.17	0:01:34.39
14	Boys	400 IM	6	0:15:10.17	0:05:43.39
13	Boys	400 IM	6	0:15:45.87	0:05:55.29
12	Boys	400 IM	6	0:16:36.57	0:06:12.19
11	Boys	400 IM	6	0:17:39.87	0:06:33.29
10&Under	Boys	500 Free	6	0:20:16.47	0:07:25.49
			<b>132</b>	<b>2:41:35.04</b>	<b>1:08:31.68</b>

14	Boys	1000 Free	6	0:34:11.67
13	Boys	1000 Free	6	0:35:25.47
12	Boys	1000 Free	6	0:36:57.27
11	Boys	1000 Free	6	0:39:31.47
			<b>24</b>	<b>2:26:05.88</b>

End of Morning Session 5:07:40.92

# JO Timeline and Order of Event Study

(using AA time and :20 interval for prelims)

Age	Gender	Event	prelims # of heats (split between 2 pools with 2 8-lane courses each)	prelims time per event	finals time per event
14	Girls	200 IM	6	0:08:07.77	0:03:22.59
13	Girls	200 IM	6	0:08:17.97	0:03:25.99
12	Girls	200 IM	6	0:08:29.97	0:03:29.99
11	Girls	200 IM	6	0:08:51.87	0:03:37.29
10&Under	Girls	200 IM	6	0:09:19.47	0:03:46.49
14	Girls	100 Free	6	0:03:56.37	0:01:58.79
13	Girls	100 Free	6	0:03:59.37	0:01:59.79
12	Girls	100 Free	6	0:04:01.47	0:02:00.49
11	Girls	100 Free	6	0:04:12.57	0:02:04.19
10&Under	Girls	100 Free	6	0:04:24.57	0:02:08.19
14	Girls	200 Fly	6	0:08:06.27	0:03:22.09
13	Girls	200 Fly	6	0:08:14.37	0:03:24.79
12	Girls	200 Fly	6	0:08:29.37	0:03:29.79
11	Girls	200 Fly	6	0:08:58.77	0:03:39.59
14	Girls	100 Back	6	0:04:13.77	0:02:04.59
13	Girls	100 Back	6	0:04:17.07	0:02:05.69
12	Girls	100 Back	6	0:04:27.87	0:02:09.29
11	Girls	100 Back	6	0:04:39.27	0:02:13.09
10&Under	Girls	100 Back	6	0:04:53.67	0:02:17.89
12	Girls	50 Breast	6	0:02:47.67	0:01:35.89
11	Girls	50 Breast	6	0:02:52.47	0:01:37.49
10&Under	Girls	50 Breast	6	0:03:00.27	0:01:40.09
14	Girls	500 Free	6	0:17:54.87	0:06:38.29
13	Girls	500 Free	6	0:18:14.37	0:06:44.79
12	Girls	500 Free	6	0:18:37.77	0:06:52.59
11	Girls	500 Free	6	0:19:24.87	0:07:08.29
			<b>156</b>	<b>3:22:54.12</b>	<b>1:24:58.04</b>

## Relays

13/14	Girls	400 FR	3	
13/14	Boys	400 FR	3	
11/12	Girls	400 FR	3	
11/12	Boys	400 FR	3	

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Age	Gender	Event	prelims time per event	prelims time per event (in 8 lanes)	finals time per event
14	Boys	200 IM	6	0:07:39.27	0:03:13.09
13	Boys	200 IM	6	0:07:55.77	0:03:18.59
12	Boys	200 IM	6	0:08:21.27	0:03:27.09
11	Boys	200 IM	6	0:08:51.27	0:03:37.09
10&Under	Boys	200 IM	6	0:09:18.57	0:03:46.19
14	Boys	100 Free	6	0:03:43.47	0:01:54.49
13	Boys	100 Free	6	0:03:50.07	0:01:56.69
12	Boys	100 Free	6	0:03:58.17	0:01:59.39
11	Boys	100 Free	6	0:04:09.27	0:02:03.09
10&Under	Boys	100 Free	6	0:04:21.57	0:02:07.19
14	Boys	200 Fly	6	0:07:35.07	0:03:11.69
13	Boys	200 Fly	6	0:07:52.17	0:03:17.39
12	Boys	200 Fly	6	0:08:18.87	0:03:26.29
11	Boys	200 Fly	6	0:08:54.87	0:03:38.29
14	Boys	100 Back	6	0:04:01.47	0:02:00.49
13	Boys	100 Back	6	0:04:08.67	0:02:02.89
12	Boys	100 Back	6	0:04:22.47	0:02:07.49
11	Boys	100 Back	6	0:04:36.87	0:02:12.29
10&Under	Boys	100 Back	6	0:04:49.77	0:02:16.59
12	Boys	50 Breast	6	0:02:45.57	0:01:35.19
11	Boys	50 Breast	6	0:02:53.07	0:01:37.69
10&Under	Boys	50 Breast	6	0:02:59.97	0:01:39.99
14	Boys	500 Free	6	0:16:59.97	0:06:19.99
13	Boys	500 Free	6	0:17:34.77	0:06:31.59
12	Boys	500 Free	6	0:18:22.47	0:06:47.49
11	Boys	500 Free	6	0:19:22.77	0:07:07.59
			<b>156</b>	<b>3:17:47.52</b>	<b>1:23:15.84</b>

## Far Westerns - Order of Events and Timeline Study

(using AA time for length of heats and a :20 interval for prelims)

	Age	Gender	Event	prelims # of heats	prelims time per event (using 2 8-lane courses)	finals interval	finals time per event
Thursday	11/12	Girls	100 Fly	5	0:07:24.95	0:01:00.00	0:02:08.99
	11/12	Boys	100 Fly	5	0:07:15.45	0:01:00.00	0:02:07.09
	13/14	Girls	100 Fly	5	0:07:00.45	0:01:00.00	0:02:04.09
	13/14	Boys	100 Fly	5	0:06:37.95	0:01:00.00	0:01:59.59
	10&Under	Girls	100 Fly	5	0:08:20.95	0:01:00.00	0:02:20.19
	10&Under	Boys	100 Fly	5	0:08:19.45	0:01:00.00	0:02:19.89
	15/16	Girls	200 Fly	5	0:13:30.45	0:01:00.00	0:03:22.09
	17/18	Girls	200 Fly	5	0:13:30.45	0:01:00.00	0:03:22.09
	15/16	Boys	200 Fly	5	0:12:38.45	0:01:00.00	0:03:11.69
	17/18	Boys	200 Fly	5	0:12:38.45	0:01:00.00	0:03:11.69
	11/12	Girls	100 Free	5	0:06:42.45	0:01:00.00	0:02:00.49
	11/12	Boys	100 Free	5	0:06:36.95	0:01:00.00	0:01:59.39
	13/14	Girls	100 Free	5	0:06:33.95	0:01:00.00	0:01:58.79
	13/14	Boys	100 Free	5	0:06:12.45	0:01:00.00	0:01:54.49
	10&Under	Girls	100 Free	5	0:07:20.95	0:01:00.00	0:02:08.19
	10&Under	Boys	100 Free	5	0:07:15.95	0:01:00.00	0:02:07.19
	15/16	Girls	100 Free	5	0:06:33.95	0:01:00.00	0:01:58.79
	17/18	Girls	100 Free	5	0:06:33.95	0:01:00.00	0:01:58.79
	15/16	Boys	100 Free	5	0:06:12.45	0:01:00.00	0:01:54.49
	17/18	Boys	100 Free	5	0:06:12.45	0:01:00.00	0:01:54.49
	11/12	Girls	50 Breast	5	0:04:39.45	0:01:00.00	0:01:35.89
	11/12	Boys	50 Breast	5	0:04:35.95	0:01:00.00	0:01:35.19
	10&Under	Girls	200 IM	5	0:15:32.45	0:01:00.00	0:03:46.49
	10&Under	Boys	200 IM	5	0:15:30.95	0:01:00.00	0:03:46.19
	13/14	Girls	200 IM	5	0:13:32.95	0:01:00.00	0:03:22.59
	13/14	Boys	200 IM	5	0:12:45.45	0:01:00.00	0:03:13.09
	11/12	Girls	200 IM	5	0:14:09.95	0:01:00.00	0:03:29.99
	11/12	Boys	200 IM	5	0:13:55.45	0:01:00.00	0:03:27.09
	15/16	Girls	400 IM	5	0:26:55.45	0:01:00.00	0:06:03.09
	17/18	Girls	400 IM	5	0:26:55.45	0:01:00.00	0:06:03.09
	15/16	Boys	400 IM	5	0:25:16.95	0:01:00.00	0:05:43.39
	17/18	Boys	400 IM	5	0:25:16.95	0:01:00.00	0:05:43.39
					<b>160</b>	<b>3:01:19.95</b>	

11/12	Girls	1650 Free	5	1:44:32.95
11/12	Boys	1650 Free	5	1:43:13.95
13/14	Girls	1650 Free	5	1:38:28.45
13/14	Boys	1650 Free	5	1:33:57.95

**20 3:20:06.65**

11/12	Girls	400 MR	2
11/12	Boys	400 MR	2
13/14	Girls	400 MR	2
13/14	Boys	400 MR	2
15/18	Girls	400 MR	2
15/18	Boys	400 MR	2

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## Far Westerns - Order of Events and Timeline Study

(using AA time for length of heats and a :20 interval for prelims)

	Age	Gender	Event	prelims # of heats	prelims time per event (using 2 8-lane courses)	finals interval	finals time per event
Friday	10&Under	Girls	100 IM	5	0:08:08.45	0:01:00.00	0:02:17.69
	10&Under	Boys	100 IM	5	0:08:04.95	0:01:00.00	0:02:16.99
	11/12	Girls	200 Back	5	0:13:58.95	0:01:00.00	0:03:27.79
	11/12	Boys	200 Back	5	0:13:39.95	0:01:00.00	0:03:23.99
	13/14	Girls	200 Back	5	0:13:11.95	0:01:00.00	0:03:18.39
	13/14	Boys	200 Back	5	0:12:30.45	0:01:00.00	0:03:10.09
	15/16	Girls	100 Back	5	0:07:02.95	0:01:00.00	0:02:04.59
	17/18	Girls	100 Back	5	0:07:02.95	0:01:00.00	0:02:04.59
	15/16	Boys	100 Back	5	0:06:42.45	0:01:00.00	0:02:00.49
	17/18	Boys	100 Back	5	0:06:42.45	0:01:00.00	0:02:00.49
	10&Under	Girls	100 Back	5	0:08:09.45	0:01:00.00	0:02:17.89
	10&Under	Boys	100 Back	5	0:08:02.95	0:01:00.00	0:02:16.59
	11/12	Girls	100 Breast	5	0:08:10.95	0:01:00.00	0:02:18.19
	11/12	Boys	100 Breast	5	0:07:59.45	0:01:00.00	0:02:15.89
	13/14	Girls	100 Breast	5	0:07:49.45	0:01:00.00	0:02:13.89
	13/14	Boys	100 Breast	5	0:07:20.45	0:01:00.00	0:02:08.09
	15/16	Girls	100 Breast	5	0:07:49.45	0:01:00.00	0:02:13.89
	17/18	Girls	100 Breast	5	0:07:49.45	0:01:00.00	0:02:13.89
	15/16	Boys	100 Breast	5	0:07:20.45	0:01:00.00	0:02:08.09
	17/18	Boys	100 Breast	5	0:07:20.45	0:01:00.00	0:02:08.09
	10&Under	Girls	50 Breast	5	0:05:00.45	0:01:00.00	0:01:40.09
	10&Under	Boys	50 Breast	5	0:04:59.95	0:01:00.00	0:01:39.99
	11/12	Girls	50 Fly	5	0:04:12.95	0:01:00.00	0:01:30.59
	11/12	Boys	50 Fly	5	0:04:10.95	0:01:00.00	0:01:30.19
	15/16	Girls	200 Free	5	0:12:12.45	0:01:00.00	0:03:06.49
	17/18	Girls	200 Free	5	0:12:12.45	0:01:00.00	0:03:06.49
	15/16	Boys	200 Free	5	0:11:31.95	0:01:00.00	0:02:58.39
	17/18	Boys	200 Free	5	0:11:31.95	0:01:00.00	0:02:58.39
	11/12	Girls	500 Free	5	0:31:02.95	0:01:00.00	0:06:52.59
	11/12	Boys	500 Free	5	0:30:37.45	0:01:00.00	0:06:47.49
	13/14	Girls	500 Free	5	0:29:51.45	0:01:00.00	0:06:38.29
	13/14	Boys	500 Free	5	0:28:19.95	0:01:00.00	0:06:19.99
				<b>160</b>	<b>3:00:21.45</b>		<b>1:33:28.58</b>

15/16	Girls	1650 Free	5	1:38:28.45
17/18	Girls	1650 Free	5	1:38:28.45
15/16	Boys	1650 Free	5	1:33:57.95
17/18	Boys	1650 Free	5	1:33:57.95

**20 3:12:26.40**

10&Under	Girls	200 FR	2
10&Under	Boys	200 FR	2
11/12	Girls	400 FR	2
11/12	Boys	400 FR	2
13/14	Girls	400 FR	2
13/14	Boys	400 FR	2
15/18	Girls	400 FR	2
15/18	Boys	400 FR	2

**16**

## Far Westerns - Order of Events and Timeline Study

(using AA time for length of heats and a :20 interval for prelims)

	Age	Gender	Event	prelims # of heats	prelims time per event (using 2 8-lane courses)	finals interval	finals time per event
Saturday	11/12	Girls	200 Free	5	0:12:42.45	0:01:00.00	0:03:12.49
	11/12	Boys	200 Free	5	0:12:25.95	0:01:00.00	0:03:09.19
	13/14	Girls	200 Free	5	0:12:12.45	0:01:00.00	0:03:06.49
	13/14	Boys	200 Free	5	0:11:31.95	0:01:00.00	0:02:58.39
	15/16	Girls	200 Breast	5	0:14:58.95	0:01:00.00	0:03:39.79
	17/18	Girls	200 Breast	5	0:14:58.95	0:01:00.00	0:03:39.79
	15/16	Boys	200 Breast	5	0:14:01.95	0:01:00.00	0:03:28.39
	17/18	Boys	200 Breast	5	0:14:01.95	0:01:00.00	0:03:28.39
	10&Under	Girls	100 Breast	5	0:08:59.95	0:01:00.00	0:02:27.99
	10&Under	Boys	100 Breast	5	0:08:51.45	0:01:00.00	0:02:26.29
	11/12	Girls	200 Fly	5	0:14:08.95	0:01:00.00	0:03:29.79
	11/12	Boys	200 Fly	5	0:13:51.45	0:01:00.00	0:03:26.29
	13/14	Girls	200 Fly	5	0:13:30.45	0:01:00.00	0:03:22.09
	13/14	Boys	200 Fly	5	0:12:38.45	0:01:00.00	0:03:11.69
	15/16	Girls	100 Fly	5	0:07:00.45	0:01:00.00	0:02:04.09
	17/18	Girls	100 Fly	5	0:07:00.45	0:01:00.00	0:02:04.09
	15/16	Boys	100 Fly	5	0:06:37.95	0:01:00.00	0:01:59.59
	17/18	Boys	100 Fly	5	0:06:37.95	0:01:00.00	0:01:59.59
	10&Under	Girls	50 Fly	5	0:04:33.95	0:01:00.00	0:01:34.79
	10&Under	Boys	50 Fly	5	0:04:31.95	0:01:00.00	0:01:34.39
	11/12	Girls	50 Back	5	0:04:19.45	0:01:00.00	0:01:31.89
	11/12	Boys	50 Back	5	0:04:17.95	0:01:00.00	0:01:31.59
	15/16	Girls	200 IM	5	0:13:32.95	0:01:00.00	0:03:22.59
	17/18	Girls	200 IM	5	0:13:32.95	0:01:00.00	0:03:22.59
	15/16	Boys	200 IM	5	0:12:45.45	0:01:00.00	0:03:13.09
	17/18	Boys	200 IM	5	0:12:45.45	0:01:00.00	0:03:13.09
	10&Under	Girls	500 Free	5	0:34:16.95	0:01:00.00	0:07:31.39
	10&Under	Boys	500 Free	5	0:33:47.45	0:01:00.00	0:07:25.49
	11/12	Girls	400 IM	5	0:28:15.95	0:01:00.00	0:06:19.19
	11/12	Boys	400 IM	5	0:27:40.95	0:01:00.00	0:06:12.19
	13/14	Girls	400 IM	5	0:26:55.45	0:01:00.00	0:06:03.09
	13/14	Boys	400 IM	5	0:25:16.95	0:01:00.00	0:05:43.39
					<b>160</b>	<b>3:46:22.95</b>	

15/16	Girls	1000 Free	5	0:59:46.45
17/18	Girls	1000 Free	5	0:59:46.45
15/16	Boys	1000 Free	5	0:56:59.45
17/18	Boys	1000 Free	5	0:56:59.45

**20 1:56:45.90**

10&Under	Girls	200 MR	2
10&Under	Boys	200 MR	2
11/12	Girls	200 MR	2
11/12	Boys	200 MR	2
13/14	Girls	200 MR	2
13/14	Boys	200 MR	2
15/18	Girls	200 MR	2
15/18	Boys	200 MR	2
15/18	Girls	800 FR	2
15/18	Boys	800 FR	2

**20**

## Far Westerns - Order of Events and Timeline Study

(using AA time for length of heats and a :20 interval for prelims)

	Age	Gender	Event	prelims # of heats	prelims time per event (using 2 8-lane courses)	finals interval	finals time per event
Sunday	11/12	Girls	200 Breast	5	0:15:45.95	0:01:00.00	0:03:49.19
	11/12	Boys	200 Breast	5	0:15:14.95	0:01:00.00	0:03:42.99
	13/14	Girls	200 Breast	5	0:14:58.95	0:01:00.00	0:03:39.79
	13/14	Boys	200 Breast	5	0:14:01.95	0:01:00.00	0:03:28.39
	10&Under	Girls	200 Free	5	0:14:05.45	0:01:00.00	0:03:29.09
	10&Under	Boys	200 Free	5	0:13:44.95	0:01:00.00	0:03:24.99
	15/16	Girls	200 Back	5	0:13:11.95	0:01:00.00	0:03:18.39
	17/18	Girls	200 Back	5	0:13:11.95	0:01:00.00	0:03:18.39
	15/16	Boys	200 Back	5	0:12:30.45	0:01:00.00	0:03:10.09
	17/18	Boys	200 Back	5	0:12:30.45	0:01:00.00	0:03:10.09
	11/12	Girls	100 Back	5	0:07:26.45	0:01:00.00	0:02:09.29
	11/12	Boys	100 Back	5	0:07:17.45	0:01:00.00	0:02:07.49
	13/14	Girls	100 Back	5	0:07:02.95	0:01:00.00	0:02:04.59
	13/14	Boys	100 Back	5	0:06:42.45	0:01:00.00	0:02:00.49
	10&Under	Girls	50 Back	5	0:04:40.95	0:01:00.00	0:01:36.19
	10&Under	Boys	50 Back	5	0:04:39.95	0:01:00.00	0:01:35.99
	15/16	Girls	50 Free	5	0:03:54.95	0:01:00.00	0:01:26.99
	17/18	Girls	50 Free	5	0:03:54.95	0:01:00.00	0:01:26.99
	15/16	Boys	50 Free	5	0:03:44.95	0:01:00.00	0:01:24.99
	17/18	Boys	50 Free	5	0:03:44.95	0:01:00.00	0:01:24.99
	11/12	Girls	50 Free	5	0:04:00.95	0:01:00.00	0:01:28.19
	11/12	Boys	50 Free	5	0:03:55.95	0:01:00.00	0:01:27.19
	13/14	Girls	50 Free	5	0:03:54.95	0:01:00.00	0:01:26.99
	13/14	Boys	50 Free	5	0:03:44.95	0:01:00.00	0:01:24.99
	10&Under	Girls	50 Free	5	0:04:12.95	0:01:00.00	0:01:30.59
	10&Under	Boys	50 Free	5	0:04:10.95	0:01:00.00	0:01:30.19
	11/12	Girls	100 IM	5	0:07:30.45	0:01:00.00	0:02:10.09
	11/12	Boys	100 IM	5	0:07:20.45	0:01:00.00	0:02:08.09
	15/16	Girls	500 Free	5	0:29:51.45	0:01:00.00	0:06:38.29
	17/18	Girls	500 Free	5	0:29:51.45	0:01:00.00	0:06:38.29
	15/16	Boys	500 Free	5	0:28:19.95	0:01:00.00	0:06:19.99
	17/18	Boys	500 Free	5	0:28:19.95	0:01:00.00	0:06:19.99
				<b>160</b>	<b>2:53:50.70</b>		<b>1:30:52.28</b>

11/12	Girls	1000 Free	5	1:02:27.45
11/12	Boys	1000 Free	5	1:01:35.45
13/14	Girls	1000 Free	5	0:59:46.45
13/14	Boys	1000 Free	5	0:56:59.45

**20 2:00:24.40**

11/12	Girls	200FR	2
11/12	Boys	200FR	2
13/14	Girls	200FR	2
13/14	Boys	200FR	2
15/18	Girls	200FR	2
15/18	Boys	200FR	2
11/12	Girls	800 FR	2
11/12	Boys	800 FR	2

**16**