

Sclerotinia in Canola

Richard Quinlan - Planfarm



Photo: Ciara Beard (Geraldton)

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The Plan

- Planned for a possible 2 spray strategy
- 1st spray 5% flowering, 2nd spray at 40% flowering

How the season unfolded:

- Crop in on time, then no rain in June.
- 15th June: 6-7 Leaf (aborted 2 spray strategy).
- 24th June: 12mm rain. 10% flowering & stressed 3 days later— Hold off spraying Prosaro.
- 12 July: 23mm rain. 30% flowering & really stressed (ie flat on the ground). No apothecia found. Hold off Prosaro application
- First week August: 60-70% flower. Only light rainfall since 12 July. No apothecia found. Aborted Prosaro application and do a skip row trial.

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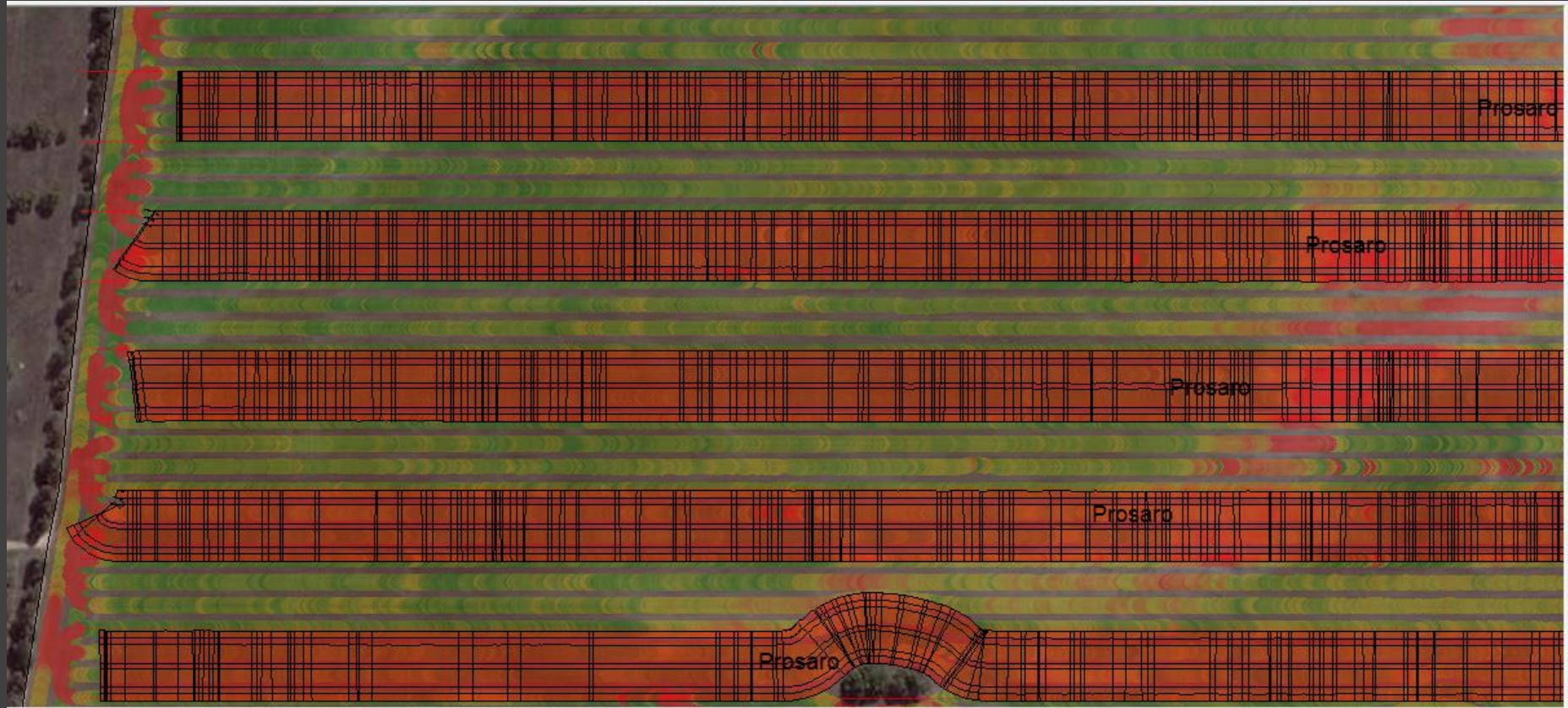


400mL/ha Prosaro

- Applied: 6th August.
- Crop Stage: 60-70% flowering
- 66mm fell in August after application.
- 46mm in September

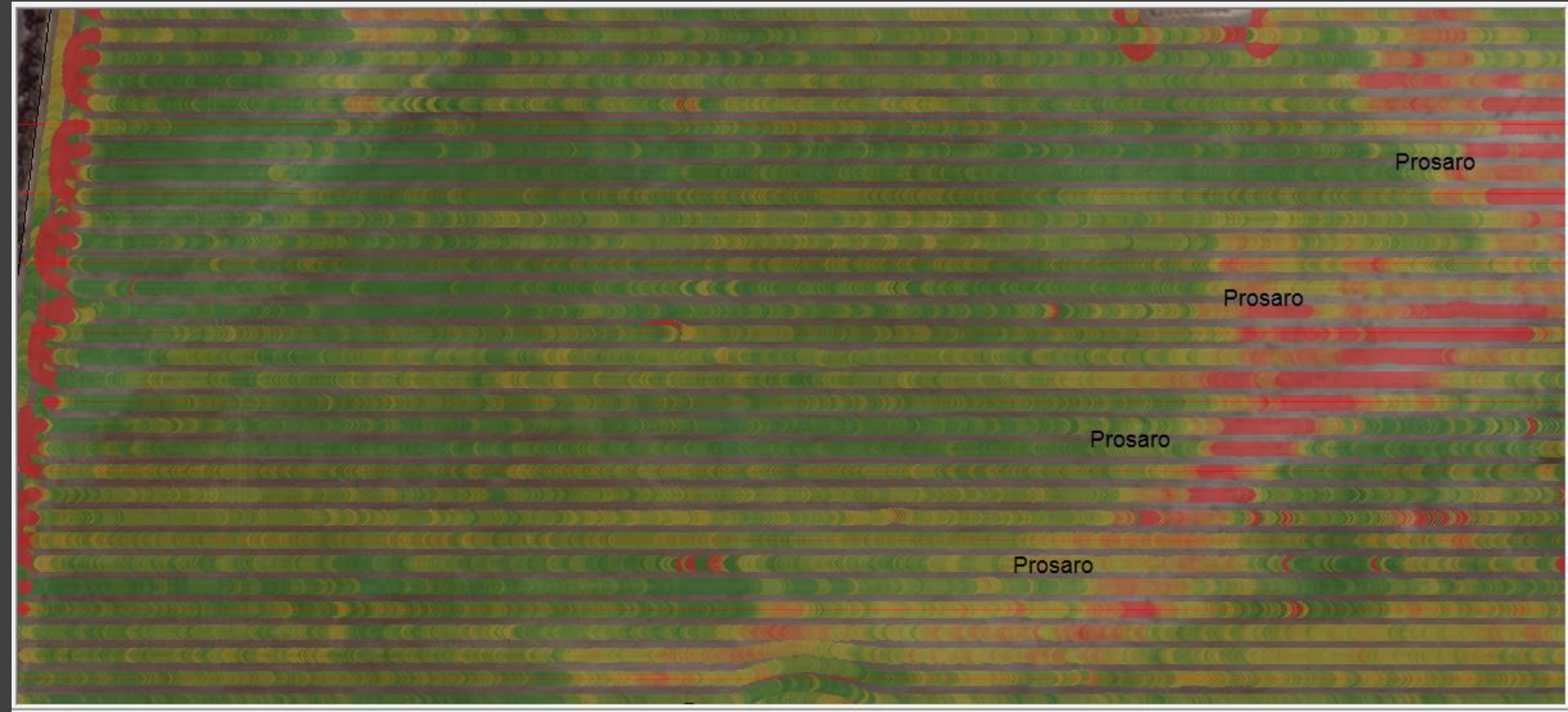
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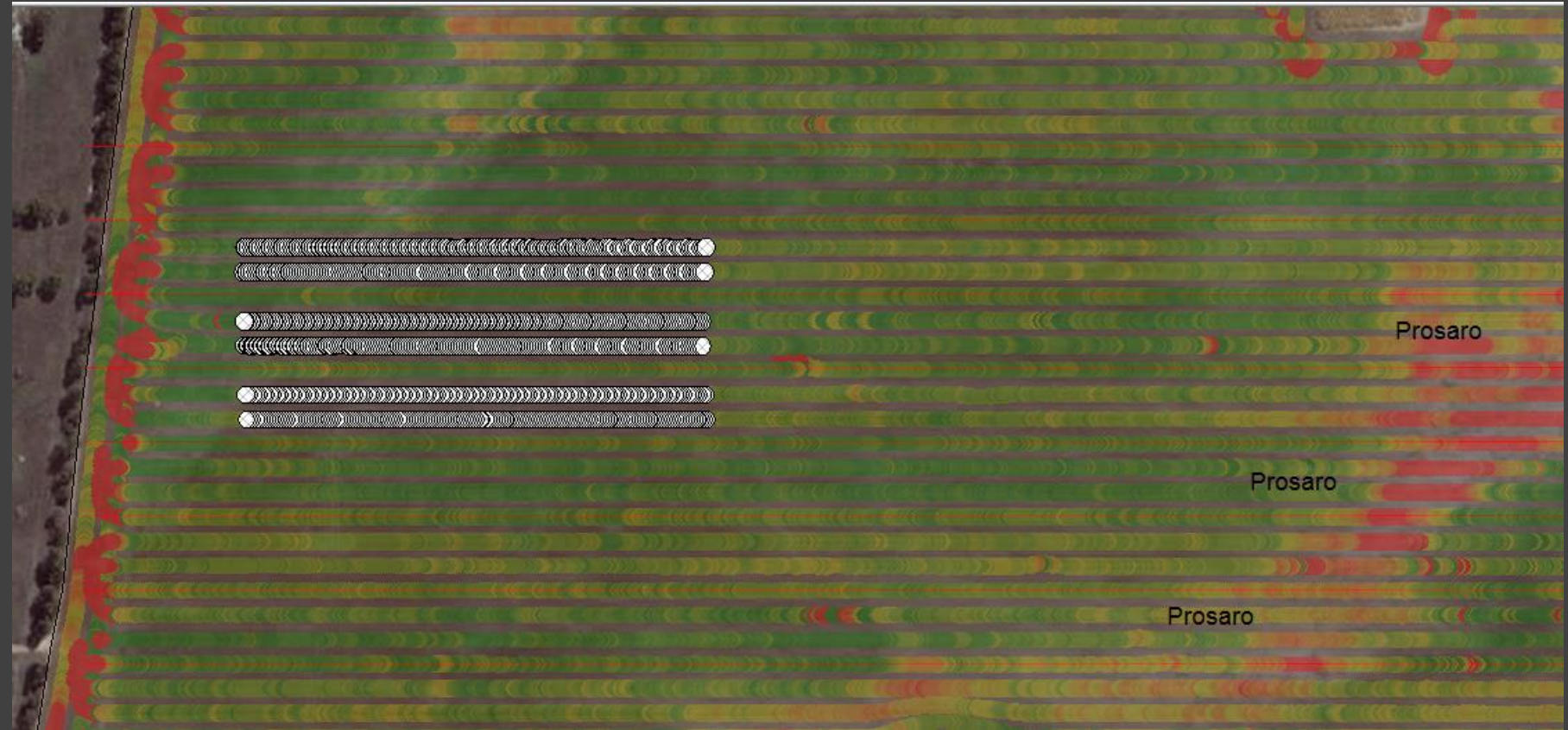
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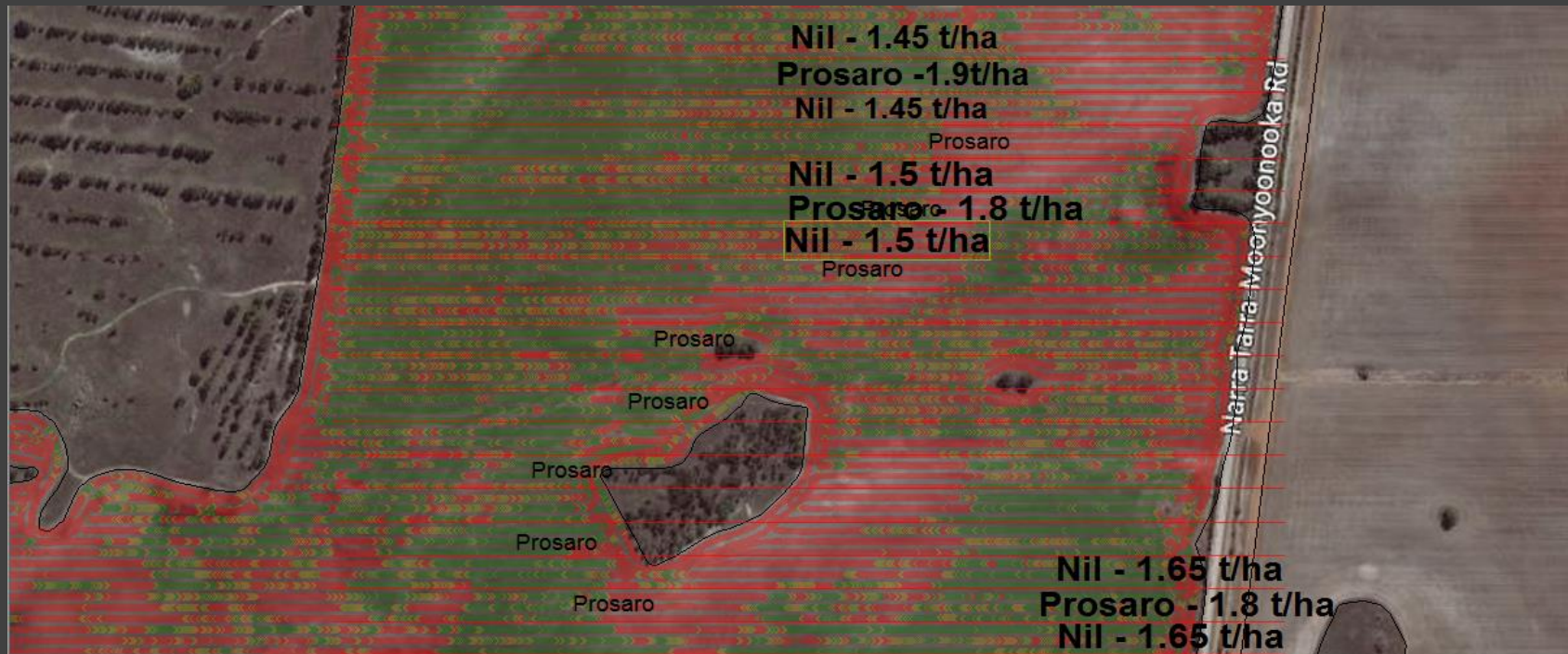
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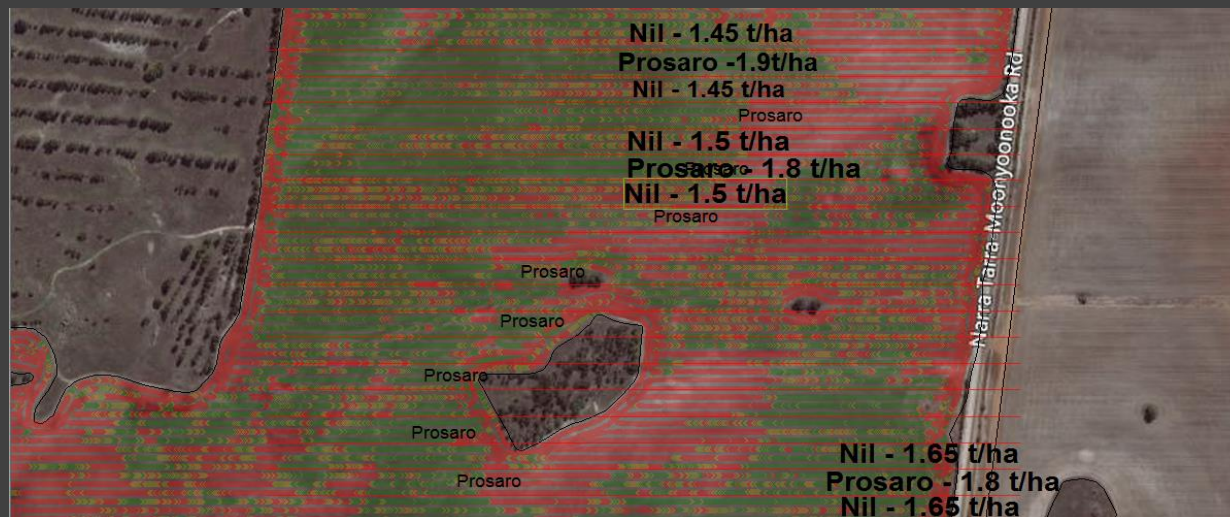


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Conclusions:

- Late Sclerotinia infections can still be damaging.
- Very soil type related.
- Zones in this paddock < 1.2t/ha failed to respond to Prosaro . (109ha of 276ha or 39%).
- Stay flexible: Be prepared to vary Prosaro timing according to seasonal conditions.
- There is an opportunity to variably apply Prosaro according to soil type and biomass to reduce costs.



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Trial Name	2013 Prosaro on Canola Skip Plot trial									
Location:	Smarts Narra Tarra E2									
Yield potential	Good									
Trial length										
	Min	Max	Average	Std Dev	Total (kg)	Count	Treatment average			
Nil	0	4.8	1.4	0.5	584.2	417	1.45			
Prosaro	1.4	2.6	1.9	0.2	719.6	379	1.90			
Nil	1.3	1.8	1.5	0.1	550.6	367				
Nil	1.3	2.3	1.6	0.2	1054.8		1.60			
Prosaro	1.1	4.4	1.9	0.3	1423.1	749	1.90			
Nil	1	2.1	1.6	0.1	981.2	613				
Nil	1.2	1.9	1.5	0.1	520.9		1.50			
Prosaro	1.4	2.2	1.8	0.2	639.4	355.2222	1.80			
Nil	1.2	2	1.5	0.1	588.4	392.2667				
Nil	1.2	2	1.6	0.1	632.7		1.60			
Prosaro	1.4	2.3	1.8	0.2	828	460	1.80			
Nil	1.1	2.1	1.6	0.2	750	468.75				
Nil	0	4.1	1.6	0.5	499.9		1.65			
Prosaro	0.4	2.8	1.8	0.2	568	315.5556	1.80			
Nil	1.2	2.1	1.7	0.2	499.7	293.9412				

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Geraldton, Western Australia June 2013 Daily Weather Observations

Observations from Geraldton Airport.

Date	Day	Temps		Rain	Evap	Sun	Max wind gust			9 am						3 pm					
		Dir	Spd				Time	Temp	RH	Cld	Dir	Spd	MSLP	Temp	RH	Cld	Dir	Spd	MSLP		
		°C	°C				mm	mm	hours	km/h	local	°C	%	g th	km/h	hPa	°C	%	g th	km/h	hPa
1	Sa	4.9	18.5	0	1.6		ESE	54	13:41	8.8	81	1	SSE	20	1031.2	18.1	41	1	ESE	33	1025.7
2	Su	7.3	21.6	0	3.0		ESE	52	11:56	13.6	74	0	SE	24	1028.6	21.0	36	1	E	35	1023.2
3	Mo	11.0	22.1	0	6.8		ENE	61	08:50	14.4	55	0	E	44	1022.5	21.7	36	0	ESE	20	1018.5
4	Tu	7.9	20.3	0	4.8		SW	33	14:27	12.5	72	1	NNE	9	1019.5	19.2	47	1	SSW	24	1016.8
5	We	7.4	20.0	0			S	31	15:11	13.8	67		NE	17	1019.7	18.6	68	8	S	19	1018.9
6	Th	10.8	21.3	0	5.8		SE	39	11:27	15.9	69	7	E	13	1023.7	20.3	49	6	SSE	20	1021.3
7	Fr	6.1	23.3	0	3.0		ENE	31	11:52	13.0	70	1	NE	9	1024.5	22.3	32	2	N	13	1019.5
8	Sa	7.0	22.2	0	3.8		SSW	26	15:51	12.3	76	1	NE	17	1021.1	22.1	43	1	SSW	13	1018.3
9	Su	9.0	23.2	0	2.6		W	30	14:22	14.2	85	1	NNE	19	1021.0	21.5	51	1	WSW	17	1017.8
10	Mo	12.7	22.0	2.0	4.0		SE	37	23:18	17.1	86	1	ESE	13	1020.7	21.6	48	1	SE	24	1018.6
11	Tu	10.4	24.2	0	6.4		ENE	50	08:40	15.1	57	1	ENE	35	1021.5	24.0	32	1	E	24	1017.0
12	We	12.1	22.7	0	5.6		NE	48	03:35	15.9	58	6	NNE	19	1017.9	21.8	52	1	N	13	1014.6
13	Th	11.6	22.9	0	3.6		NE	37	06:47	13.9	83	1	NE	30	1016.6	21.1	54	3	NW	11	1013.8
14	Fr	12.9	22.7	0	2.4		N	33	11:01	16.2	80	7	NNE	20	1013.5	22.0	50	4	NW	20	1012.1
15	Sa	10.5	22.5	0	2.8		NNE	30	08:49	14.2	89	3	NNE	24	1016.9	21.1	62	4	S	19	1015.0
16	Su	7.7	19.9	0	3.8		S	31	15:41	12.6	86	1	NNE	9	1019.7	19.4	55	1	S	22	1017.9
17	Mo	6.1	21.2	0	2.6		SSW	35	14:44	12.5	79	6	NE	9	1020.4	19.3	58	6	S	28	1017.8
18	Tu	6.8	20.4				ENE	28	09:42	13.5	73	1	NE	13	1020.5	19.0	45	2	SSE	9	1017.4
19	We	6.7	21.0	0	4.6		SSW	28	16:12	11.9	81	1	NNE	19	1023.0	20.4	48	2	SW	15	1021.1
20	Th	5.7	21.3	0	2.8		E	28	12:03	11.9	75	1	NNW	9	1026.1	20.8	31	0	E	17	1022.2
21	Fr	4.2	23.5	0	3.6		NNE	43	12:32	12.9	56	0	NNE	17	1022.7	22.9	19	0	NNE	20	1017.9
22	Sa	7.7	25.3	0	5.0		NE	41	09:37	13.7	44	1	NNE	31	1018.2	24.4	27	1	WNW	19	1015.3
23	Su	9.9	25.2	0	7.0		NW	54	13:23	16.2	33	5	NNE	31	1013.3	17.4	87	8	WNW	24	1012.9
24	Mo	14.5	21.9	8.6	3.6		N	30	10:42	15.4	75	7	NNE	13	1014.5	19.3	78	8	WNW	19	1012.8
25	Tu	12.5	21.2	2.2	1.6		SW	43	13:54	15.6	94	6	N	17	1015.9	19.7	72	6	SSW	30	1015.1
26	We	11.0	20.2	1.4	1.2		S	24	15:33	14.5	77	7	ENE	9	1020.0	20.0	53	7	S	6	1017.7
27	Th	11.4	20.7	0	2.6		SE	31	14:41	14.1	70	4	NNE	9	1021.5	20.1	38	1	SE	19	1019.5
28	Fr	4.4	20.6	0	3.0		S	30	15:23	11.5	72	1	NE	6	1026.1	20.1	42	1	S	22	1024.3
29	Sa	6.3	23.1	0	3.0		E	31	12:37	12.3	63	0	NE	13	1030.9	22.9	26	0	E	17	1028.0
30	Su	3.9	23.3	0	3.4		ENE	41	12:11	11.0	68	0	S	6	1031.9	22.8	22	0	ENE	19	1026.1
Statistics for June 2013																					
Mean		8.7	21.0		2.7					13.7	74	2		17	1021.5	20.8	46	2		19	1018.6

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Geraldton, Western Australia July 2013 Daily Weather Observations

Observations from Geraldton Airport.

Date	Day	Temps		Rain	Evap	Sun	Max wind gust			9 am			3 pm		
		Min	Max				Dir	Spd	Time	Temp	RH	Cld	Dir	Spd	MSLP
		°C	°C	mm	mm	hours	km/h	local		°C	%	g th	km/h	hPa	
1	Mo	4.3	24.0	0	3.2		NE	35	10:39	12.0	51	0	NNE	20	1025.1
2	Tu	6.3	22.5	0	4.0		NNE	33	05:26	12.8	51	1	NNE	20	1019.9
3	We	9.4	21.7	0	4.4		S	41	15:56	13.7	70	3	NE	17	1021.0
4	Th	8.7	18.9	0.4	3.0		SE	39	14:52	13.1	62	5	ENE	13	1025.2
5	Fr	4.4	19.8	0	3.8		NE	37	10:08	12.1	56	1	NE	20	1023.9
6	Sa	5.5	21.0	0	3.4		SE	41	23:28	10.6	49	4	NE	22	1020.5
7	Su	6.7	19.5	0	5.6		E	50	02:35	11.4	40	1	E	28	1027.3
8	Mo	3.3	21.8	0	4.8		ENE	33	10:18	11.2	49	0	ENE	20	1027.1
9	Tu	5.8	21.5	0	4.2		WSW	30	15:06	12.5	54	7	NE	19	1020.2
10	We	8.2	22.1	0	2.2		NNE	30	03:10	12.8	79	2	NNE	22	1017.3
11	Th	10.4	17.7	0	3.2		WSW	63	18:10	13.2	93	7	NE	19	1014.6
12	Fr	8.7	20.1	23.8	0.2		SSE	30	13:12	13.0	84	1	NNE	17	1016.4
13	Sa	8.4	21.5	0.4	2.2		NNE	30	07:52	11.6	90	1	NNE	22	1018.7
14	Su	8.3	23.0	0	2.6		NNE	33	08:35	12.2	74	1	NNE	24	1019.3
15	Mo	7.1	21.9	0	2.8		WSW	31	15:42	12.1	77	1	NNE	20	1018.2
16	Tu	12.1	21.5	3.2	1.2		WSW	72	14:12	19.3	64	3	WNW	22	1016.0
17	We	12.5	18.4	4.4	5.2		SSW	63	03:52	16.4	63	7	S	22	1021.1
18	Th	6.7	15.9	0.2	3.0		SE	43	12:22	10.4	67	6	ESE	19	1025.9
19	Fr	2.3	16.6	0	3.0		E	44	12:17	8.7	77	1	ESE	15	1030.6
20	Sa	2.6	17.1	0	3.4		ENE	39	11:57	8.1	78	1	SSE	6	1031.2
21	Su	3.9	18.0	0	3.8		ENE	37	05:49	10.4	60	0	N	15	1027.3
22	Mo	2.5	20.4	0	2.2		NNE	50	10:15	10.1	57	4	NNE	24	1021.6
23	Tu	6.5	24.6	0	5.2					12.4	53	1	NNE	30	1018.3
24	We	12.1	20.4	1.8	3.4		SSW	28	14:06	16.2	86	6	ENE	6	1023.4
25	Th	6.0	22.2	0	2.8					12.9	78	1	ENE	9	1020.8
26	Fr	12.8	19.9	7.6	3.8		W	76	19:40	15.7	71	7	WNW	31	1012.0
27	Sa	13.9	19.2	7.8	6.0		SW	63	03:03	17.1	62	5	WSW	33	1016.0
28	Su	9.1	19.2	3.8	2.2		S	28	14:41	14.4	96	5	NNE	15	1023.2
29	Mo	9.0	19.9	0.2	1.4		E	26	11:28	12.8	89	7	NE	13	1025.8
30	Tu	8.4	21.9	0	3.0		SW	22	15:50	14.4	70	1	SE	7	1022.2
31	We	8.0	21.2	0	2.0		WSW	31	16:29	13.0	83	1	NNE	20	1021.6

Station for July 2013

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Geraldton, Western Australia August 2013 Daily Weather Observations

Observations from Geraldton Airport.

Date	Day	Temps		Rain	Evap	Sun	Max wind gust			9 am					3 pm						
		Min	Max				Dir	Spd	Time	Temp	RH	Cld	Dir	Spd	MSLP	Temp	RH	Cld	Dir	Spd	MSLP
1	Th	11.4	21.3	1.0	2.2		SSW	28	14:30	15.6	91	2	NNE	7	1023.1	19.9	60	7	SSW	19	1022.0
2	Fr	7.8	22.3	0	2.8		S	30	15:17	15.3	83	0	ENE	15	1027.1	21.9	59	1	S	17	1023.9
3	Sa	9.0	26.3	0	3.6		NE	30	10:19	16.1	77	0	ENE	15	1025.3	25.1	30	0	E	9	1020.5
4	Su	8.0	23.9	0	3.6		NNE	37	05:22	15.4	50	0	NNE	17	1019.5	22.8	67	1	WNW	24	1017.4
5	Mo	10.9	23.1	0	3.2		NW	43	14:07	16.3	79	2	NNE	17	1018.9	20.4	68	7	NW	30	1016.7
6	Tu	12.9	23.2	1.6	3.2		NW	37	12:10	16.5	89	1	NNE	17	1018.8	21.6	58	1	NW	26	1016.4
7	We	11.3	25.2	0.2	4.4		NW	48	12:59	14.4	90	6	NNE	22	1017.1	23.1	62	6	NW	30	1014.9
8	Th	14.4	20.0				WSW	56	12:48	19.8	93	8	NW	28	1014.4	19.3	90	8	W	15	1014.6
9	Fr	9.2	20.0	5.8	4.2		NE	19	09:23	16.8	72	6	NE	13	1020.6	19.8	50	5	W	9	1018.2
10	Sa	7.8	21.3	0	2.0		NNE	24	04:06	13.8	75	6	NNE	19	1019.5	20.1	56	5	W	15	1017.5
11	Su	11.8	21.5	4.2	1.8		SSW	41	13:32	16.2	82	7	SW	24	1020.4	19.0	71	4	S	24	1019.5
12	Mo	7.9	20.3	0	2.6		NNE	28	06:37	12.6	80	4	NNE	19	1021.9	19.5	47	4	SW	17	1019.2
13	Tu	9.9	21.1	0	3.6		SW	31	12:31	15.7	76	6	NNE	13	1019.4	20.5	45	1	SW	20	1018.1
14	We	7.7	20.8	0.2	3.8		S	26	15:08	13.6	85	5	NE	13	1021.8	20.2	44	3	SSW	15	1018.8
15	Th	7.5	21.8	0	3.4		WSW	65	16:45	18.9	58	3	W	20	1016.8	20.4	48	7	W	39	1014.2
16	Fr	11.0	19.0	0.2	4.6		SSW	39	00:05	14.9	68	7	NNE	9	1021.9	17.6	45	7	SW	19	1020.1
17	Sa	9.3	20.2	1.0	2.6		SW	30	13:27	13.0	85	4	NNE	19	1022.4	18.7	50	7	SW	11	1021.0
18	Su	8.5	19.0	0	3.6		ENE	30	11:55	13.3	79	7	NE	7	1022.9	18.6	44	8	SE	13	1021.3
19	Mo	4.7	22.3	0	1.0		S	41	14:15	13.9	73	1	Calm		1023.6	20.3	39	1	SSW	30	1021.6
20	Tu	3.5	22.5	0	5.0		S	43	16:04	14.2	71	1	SE	9	1026.9	21.2	39	0	S	28	1023.3
21	We	3.6	23.3	0	4.6		ESE	46	11:36	15.2	63	1	E	28	1027.7	22.7	33	1	SE	22	1024.5
22	Th	8.6	25.3	0	5.0		S	43	16:52	15.7	55	3	NNW	4	1027.9	24.8	22	1	ESE	19	1023.3
23	Fr	8.6	28.5	0	5.4		NNE	37	09:52	16.7	43	0	NE	19	1023.8	27.2	11	0	WSW	17	1019.3
24	Sa	7.5	30.1	0	7.6		N	44	11:32	17.8	31	0	NNE	26	1018.1	27.2	13	1	WNW	20	1014.2
25	Su	12.9	20.3	0	6.4		NNW	50	09:36	17.4	74	7	NNE	17	1011.5	17.0	84	7	SW	26	1011.1
26	Mo	10.3	20.4	28.0	2.2		WSW	35	03:35	17.5	69	7	SSW	15	1018.0	15.9	89	7	WNW	17	1018.1
27	Tu	10.5	20.3	1.4	1.8		WNW	65	22:32	15.7	75	3	NNE	26	1016.7	16.5	87	7	W	20	1014.0
28	We	13.5	19.8	16.2	3.2		WSW	52	01:04	14.9	92	7	WSW	22	1015.8	18.6	64	7	WSW	19	1015.2
29	Th	10.6	20.1	2.6	2.6		NW	46	16:10	16.1	82	2	NNE	17	1014.1	18.3	69	7	NNW	19	1011.6
30	Fr	11.8	22.2	4.4	3.6		NW	54	14:21	18.6	76	6	NNW	20	1013.4	20.9	53	2	NW	35	1011.7
31	Sa	16.3	22.4	2.8	4.2		W	54	14:10	19.4	75	7	NW	22	1013.2	20.0	71	7	NW	26	1013.4

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Geraldton, Western Australia September 2013 Daily Weather Observations

Observations from Geraldton Airport.

Date	Day	Temps		Rain	Evap	Sun	Max wind gust			9 am					3 pm						
		Min	Max				Dir	Spd	Time	Temp	RH	Cld	Dir	Spd	MSLP	Temp	RH	Cld	Dir	Spd	MSLP
		°C	°C				mm	mm	hours	km/h	local	°C	%	g th	km/h	hPa	°C	%	g th	km/h	hPa
1	Su	14.9	23.6	0.6	2.8		NW	35	11:18	18.6	83	7	NNE	17	1018.6	22.2	60	7	NW	20	1017.7
2	Mo	11.6	23.9	0.2	4.0		NNE	28	07:24	14.9	99	6	NNE	19	1020.5	22.8	55	1	WSW	19	1016.7
3	Tu	14.7	22.6	0	4.0		NW	52	14:06	18.0	91	7	N	13	1017.5	20.0	74	8	W	24	1016.2
4	We	14.3	19.8	3.8	3.0		SSW	39	01:49	16.4	64	7	ESE	13	1025.6	18.5	49	5	S	24	1023.7
5	Th	5.3	21.9	0	4.4		E	44	10:03	14.7	54	1	ESE	26	1025.8	21.5	39	0	SSE	20	1021.5
6	Fr	7.4	26.3	0	5.2		S	39	16:19	16.6	67	3	SSE	13	1020.5	25.8	46	1	SE	17	1015.0
7	Sa	9.5	22.0	0	3.8		SW	46	09:53	19.2	75	7	SSW	26	1015.6	20.0	64	7	SSW	22	1016.1
8	Su	9.6	21.7	0.2	4.0		SSW	33	15:04	17.5	68	2	NE	11	1021.0	20.6	48	7	SSW	20	1019.5
9	Mo	7.7	25.0	0	5.0		N	35	13:17	17.6	61	1	NE	13	1019.0	23.9	40	1	WSW	19	1013.9
10	Tu	9.7	23.5	0	3.8		NW	57	15:24	16.1	87	7	NNE	15	1012.6	22.5	58	6	NW	37	1008.8
11	We	15.2	21.2	6.4	5.4		W	65	05:11	17.9	76	2	W	28	1010.3	20.0	52	7	W	35	1011.6
12	Th	14.4	21.2	0.2	5.8		SW	43	01:32	18.7	58	7	SW	17	1019.1	20.2	51	2	SW	22	1018.5
13	Fr	12.4	22.4	0	4.4		W	57	19:17	15.9	72	7	NNE	24	1017.2	20.1	56	4	NW	26	1011.5
14	Sa	12.3	19.1	16.0	6.0		SW	67	10:49	15.7	72	6	SW	20	1011.5	17.6	53	5	WSW	41	1012.2
15	Su	12.4	19.2	3.0	6.0		SSW	54	03:14	16.1	53	7	S	26	1018.7	18.1	48	3	SSW	22	1018.2
16	Mo	7.2	21.1	0	5.4		SW	61	21:00	14.2	73	1	NNE	26	1017.0	20.3	58	3	NW	37	1014.1
17	Tu	12.9	19.1	3.6	4.8		WSW	56	00:36	16.5	51	3	SSW	28	1020.5	17.5	46	7	SSW	24	1018.7
18	We	8.0	20.5	0.2	4.0		W	41	14:11	13.7	82	7	NNE	13	1018.5	18.9	54	7	W	26	1015.9
19	Th	9.9	21.1	1.6	2.8		W	28	13:32	17.7	73	1	NE	6	1016.8	20.5	48	2	W	17	1014.6
20	Fr	8.8	22.6	0	3.6		NW	44	14:02	19.3	67	4	NNW	15	1014.6	21.4	58	4	WNW	28	1013.5
21	Sa	13.4	23.4	0	4.2		NW	44	23:47	20.1	64	5	NW	19	1016.0	21.5	58	3	WNW	26	1012.7
22	Su	14.8	20.8	5.4	5.8		W	78	04:32	18.3	53	4	W	37	1010.0	18.7	53	7	WNW	28	1009.5
23	Mo	15.4	22.6	2.8	5.6		NW	70	02:31	19.6	79	7	WNW	30	1009.7	21.9	68	3	WNW	39	1009.9
24	Tu	18.2	23.6	0	5.0		WNW	52	01:22	21.1	67	7	WNW	30	1013.0	21.1	65	7	W	31	1012.9
25	We	10.8	21.9	1.2	4.2		S	35	14:03	18.8	53	3	SSW	19	1021.4	20.6	42	1	SSW	17	1019.4
26	Th	9.4	22.4	0	5.6		SSW	41	15:58	17.9	68	2	NNE	11	1020.0	20.6	52	2	WSW	26	1019.1
27	Fr	9.5	22.2	0	5.2		SSW	35	14:35	18.0	60	2	E	19	1022.3	20.4	50	0	SSW	24	1019.5
28	Sa	6.4	23.5	0	5.0		SSW	41	17:43	17.8	54	0	ESE	15	1017.7	21.0	54	0	SSW	19	1013.2
29	Su	8.9	22.9	0	5.6		W	35	13:14	18.2	65	7	NNE	13	1011.9	21.9	50	4	WSW	24	1008.7
30	Mo	14.1	20.9	1.2	3.8		S	48	11:51	15.9	85	7	SSE	31	1016.4	20.0	38	1	SSW	30	1017.0

Statistics for September 2013