

Control: Undisturbed grassland

Time (hours)	Distance between modelled fire front edges (km)	Scale distance (km)	Measured scale length (cm)	Actual distance the fire travelled (AxB)÷C	Average Speed (km/hr)
	(A)	(B)	(C)		
0 - 0.5	1.6	2	1.6	2	4
0.5 - 1.0	1.6	2	1.6	2	4
1.0 - 1.5	1.7	2	1.6	2.125	4.25
1.5 - 2.0	1.7	2	1.6	2.125	4.25
2.0 - 2.5	1.7	2	1.6	2.125	4.25
2.5 - 3.0	1.7	2	1.6	2.125	4.25
3.0 - 3.5	1.7	2	1.6	2.125	4.25
3.5 - 4.0	1.75	2	1.6	2.1875	4.375

Test: Grazed/Cut grassland

Time (hours)	Distance between modelled fire front edges (cm)	Scale distance (km)	Measured scale length (cm)	Actual distance the fire travelled (AxB)÷C	Average Speed (km/hr)
	(A)	(B)	(C)		
0 - 0.5	1.3	2	1.6	1.625	3.25
0.5 - 1.0	1.35	2	1.6	1.6875	3.375
1.0 - 1.5	1.4	2	1.6	1.75	3.5
1.5 - 2.0	1.4	2	1.6	1.75	3.5
2.0 - 2.5	1.4	2	1.6	1.75	3.5
2.5 - 3.0	1.4	2	1.6	1.75	3.5
3.0 - 3.5	1.4	2	1.6	1.75	3.5
3.5 - 4.0	1.4	2	1.6	1.75	3.5

Test: Undisturbed grassland (humid)

Time (hours)	Distance between modelled fire front edges (km)	Scale distance (km)	Measured scale length (cm)	Actual distance the fire travelled (AxB)÷C	Average Speed (km/hr)
	(A)	(B)	(C)		
0 - 0.5	1.3	1	1.1	1.2	2.4
0.5 - 1.0	1.3	1	1.1	1.2	2.4
1.0 - 1.5	1.3	1	1.1	1.2	2.4
1.5 - 2.0	1.35	1	1.1	1.2	2.5
2.0 - 2.5	1.35	1	1.1	1.2	2.5
2.5 - 3.0	1.35	1	1.1	1.2	2.5
3.0 - 3.5	1.4	1	1.1	1.3	2.5
3.5 - 4.0	1.4	1	1.1	1.3	2.5

Test: Grassland burned 12 months prior

Time (hours)	Distance between modelled fire front edges (cm)	Scale distance (km)	Measured scale length (cm)	Actual distance the fire travelled (AxB)÷C	Average Speed (km/hr)
	(A)	(B)	(C)		
0 - 0.5	1.6	2	1.6	2.0	4.0
0.5 - 1.0	1.7	2	1.6	2.1	4.3
1.0 - 1.5	1.7	2	1.6	2.1	4.3
1.5 - 2.0	1.7	2	1.6	2.1	4.3
2.0 - 2.5	1.7	2	1.6	2.1	4.3
2.5 - 3.0	1.7	2	1.6	2.1	4.3
3.0 - 3.5	1.7	2	1.6	2.1	4.3
3.5 - 4.0	1.7	2	1.6	2.1	4.3



Control: Eucalyptus bushland

Time (hours)	Distance between modelled fire front edges (cm)	Scale distance (km)	Measured scale length (cm)	Actual distance the fire travelled (AxB)÷C	Average Speed (km/hr)
	(A)	(B)	(C)		
0 - 0.5	1.1	0.5	1	0.6	1.1
0.5 - 1.0	1	0.5	1	0.5	1.0
1.0 - 1.5	1	0.5	1	0.5	1.0
1.5 - 2.0	1	0.5	1	0.5	1.0
2.0 - 2.5	1	0.5	1	0.5	1.0
2.5 - 3.0	1.1	0.5	1	0.6	1.1
3.0 - 3.5	1.4	0.5	1	0.7	1.4
3.5 - 4.0	1.4	0.5	1	0.7	1.4

Test: Undisturbed grassland (windy)

Time (hours)	Distance between modelled fire front edges (cm)	Scale distance (km)	Measured scale length (cm)	Actual distance the fire travelled (AxB)÷C	Average Speed (km/hr)
	(A)	(B)	(C)		
0 - 0.5	2	2	1.4	2.9	5.7
0.5 - 1.0	2.1	2	1.4	3.0	6.0
1.0 - 1.5	2.15	2	1.4	3.1	6.1
1.5 - 2.0	2.15	2	1.4	3.1	6.1
2.0 - 2.5	2.15	2	1.4	3.1	6.1
2.5 - 3.0	2.15	2	1.4	3.1	6.1
3.0 - 3.5	2.1	2	1.4	3.0	6.0
3.5 - 4.0	2.15	2	1.4	3.1	6.1

Test: Eucalyptus bushland (10° uphill)

Time (hours)	Distance between modelled fire front edges (cm)	Scale distance (km)	Measured scale length (cm)	Actual distance the fire travelled (AxB)÷C	Average Speed (km/hr)
	(A)	(B)	(C)		
0 - 0.5	1.8	0.5	1	0.9	1.8
0.5 - 1.0	1.7	0.5	1	0.9	1.7
1.0 - 1.5	1.6	0.5	1	0.8	1.6
1.5 - 2.0	1.65	0.5	1	0.8	1.7
2.0 - 2.5	1.7	0.5	1	0.9	1.7
2.5 - 3.0	1.7	0.5	1	0.9	1.7
3.0 - 3.5	1.7	0.5	1	0.9	1.7
3.5 - 4.0	1.7	0.5	1	0.9	1.7

Test: Eucalyptus bushland (10° downhill)

Time (hours)	Distance between modelled fire front edges (cm)	Scale distance (km)	Measured scale length (cm)	Actual distance the fire travelled (AxB)÷C	Average Speed (km/hr)
	(A)	(B)	(C)		
0 - 0.5	0.7	0.5	1	0.4	0.7
0.5 - 1.0	0.65	0.5	1	0.3	0.7
1.0 - 1.5	0.7	0.5	1	0.4	0.7
1.5 - 2.0	0.7	0.5	1	0.4	0.7
2.0 - 2.5	0.7	0.5	1	0.4	0.7
2.5 - 3.0	0.7	0.5	1	0.4	0.7
3.0 - 3.5	0.9	0.5	1	0.5	0.9
3.5 - 4.0	1	0.5	1	0.5	1.0

Test: Eucalyptus bushland (recently burned)

Time (hours)	Distance between modelled fire front edges (cm)	Scale distance (km)	Measured scale length (cm)	Actual distance the fire travelled (AxB)÷C	Average Speed (km/hr)
	(A)	(B)	(C)		
0 - 0.5	0.4	0.5	1	0.2	0.4
0.5 - 1.0	0.2	0.5	1	0.1	0.2
1.0 - 1.5	0.2	0.5	1	0.1	0.2
1.5 - 2.0	0.2	0.5	1	0.1	0.2
2.0 - 2.5	0.2	0.5	1	0.1	0.2
2.5 - 3.0	0.2	0.5	1	0.1	0.2
3.0 - 3.5	0.3	0.5	1	0.2	0.3
3.5 - 4.0	0.25	0.5	1	0.1	0.3

Test: Eucalyptus bushland (windy)

Time (hours)	Distance between modelled fire front edges (cm)	Scale distance (km)	Measured scale length (cm)	Actual distance the fire travelled (AxB)÷C	Average Speed (km/hr)
	(A)	(B)	(C)		
0 - 0.5	1.55	0.5	1	0.8	1.6
0.5 - 1.0	1.5	0.5	1	0.8	1.5
1.0 - 1.5	1.5	0.5	1	0.8	1.5
1.5 - 2.0	1.5	0.5	1	0.8	1.5
2.0 - 2.5	1.5	0.5	1	0.8	1.5
2.5 - 3.0	1.5	0.5	1	0.8	1.5
3.0 - 3.5	2	0.5	1	1.0	2.0
3.5 - 4.0	2	0.5	1	1.0	2.0

Test: Undisturbed grassland (wind change 1)

Time (hours)	Distance between modelled fire front edges (cm)	Scale distance (km)	Measured scale length (cm)	Actual distance the fire travelled (AxB)÷C	Average Speed (km/hr)
	(A)	(B)	(C)		
0 - 0.5	2.5	1	1.2	2.1	4.2
0.5 - 1.0	2.5	1	1.2	2.1	4.2
1.0 - 1.5	2.5	1	1.2	2.1	4.2
1.5 - 2.0	2.6	1	1.2	2.2	4.3
2.0 - 2.5	2.6	1	1.2	2.2	4.3
2.5 - 3.0	2.4	1	1.2	2.0	4.0
3.0 - 3.5	2.7	1	1.2	2.3	4.5
3.5 - 4.0	2.5	1	1.2	2.1	4.2

Test: Undisturbed grassland (wind change 2)

Time (hours)	Distance between modelled fire front edges (cm)	Scale distance (km)	Measured scale length (cm)	Actual distance the fire travelled (AxB)÷C	Average Speed (km/hr)
	(A)	(B)	(C)		
0 - 0.5	2	1	1.2	1.7	3.3
0.5 - 1.0	2	1	1.2	1.7	3.3
1.0 - 1.5	2.05	1	1.2	1.7	3.4
1.5 - 2.0	2.05	1	1.2	1.7	3.4
2.0 - 2.5	2	1	1.2	1.7	3.3
2.5 - 3.0	2.2	1	1.2	1.8	3.7
3.0 - 3.5	2.1	1	1.2	1.8	3.5
3.5 - 4.0	2.2	1	1.2	1.8	3.7

Unknown 2

Time (hours)	Distance between modelled fire front edges (cm)	Scale distance (km)	Measured scale length (cm)	Actual distance the fire travelled (AxB)÷C	Average Speed (km/hr)
	(A)	(B)	(C)		
0 - 0.5	1.35	1	1.5	0.9	1.8
0.5 - 1.0	1.2	1	1.5	0.8	1.6
1.0 - 1.5	0.55	1	1.5	0.4	0.7
1.5 - 2.0	0.55	1	1.5	0.4	0.7
2.0 - 2.5	2.65	1	1.5	1.8	3.5
2.5 - 3.0	2.7	1	1.5	1.8	3.6
3.0 - 3.5	2.7	1	1.5	1.8	3.6
3.5 - 4.0	2.8	1	1.5	1.9	3.7

Unknown 2 shiny

Time (hours)	Distance between modelled fire front edges (cm)	Scale distance (km)	Measured scale length (cm)	Actual distance the fire travelled (AxB)÷C	Average Speed (km/hr)
	(A)	(B)	(C)		
0 - 0.5	1.35	1	1.5	0.9	1.8
0.5 - 1.0	1.2	1	1.5	0.8	1.6
1.0 - 1.5	0.55	1	1.5	0.4	0.7
1.5 - 2.0	0.55	1	1.5	0.4	0.7
2.0 - 2.5	2.65	1	1.5	1.8	3.5
2.5 - 3.0	2.7	1	1.5	1.8	3.6
3.0 - 3.5	2.7	1	1.5	1.8	3.6
3.5 - 4.0	2.8	1	1.5	1.9	3.7

Unknown 1

Time (hours)	Distance between modelled fire front edges (cm)	Scale distance (km)	Measured scale length (cm)	Actual distance the fire travelled (AxB)÷C	Average Speed (km/hr)
	(A)	(B)	(C)		
0 - 0.5	1.2	1	1.3	0.9	1.8
0.5 - 1.0	1	1	1.3	0.8	1.5
1.0 - 1.5	1.1	1	1.3	0.8	1.7
1.5 - 2.0	1.1	1	1.3	0.8	1.7
2.0 - 2.5	2.2	1	1.3	1.7	3.4
2.5 - 3.0	2.35	1	1.3	1.8	3.6
3.0 - 3.5	2.35	1	1.3	1.8	3.6
3.5 - 4.0	2.4	1	1.3	1.8	3.7