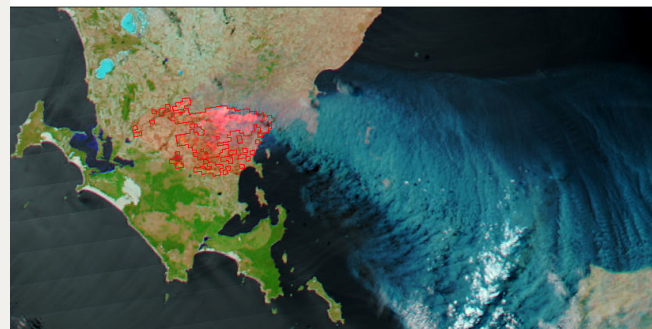
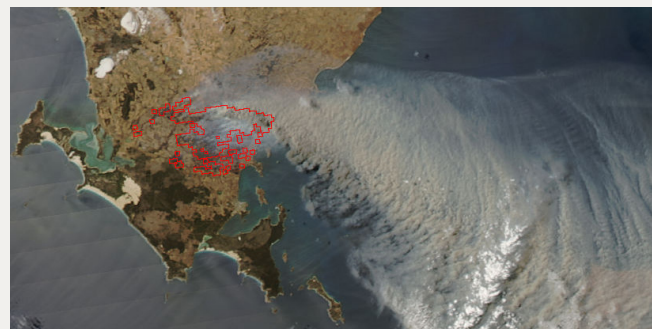


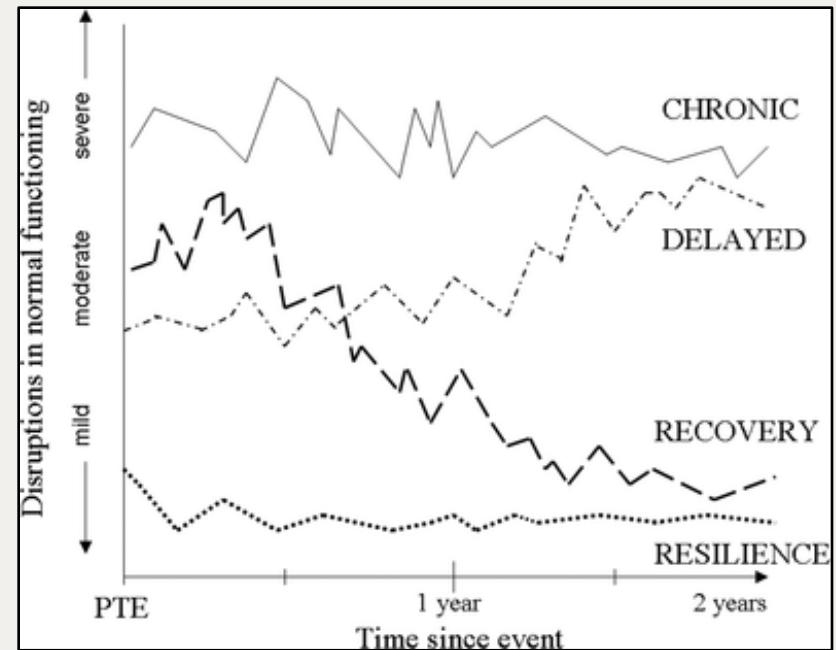
Setting the scene

- Black Tuesday Bushfire
 - 12th January, 2005
 - Eyre Peninsula Region in South Australia
- Personal Loss
 - 9 Fatalities
 - 110 Injuries
- Property Loss
 - 78,000 hectares
 - 47,000 livestock
 - All fencing
 - 95% pastures destroyed



Theoretical framework

- Focus on Psychopathology
- Bonanno, 2004 – Trajectory analysis
 - Latent Class Analysis (requiring 3 time-points)
 - Found in multiple civilian populations



Research Questions

- Can we observe the four distinct mental health outcomes in our population?
 - Resilience
 - Recovery
 - Delayed
 - Chronic
- What are the risk and resilience factors associated with each distinct outcome group?
 - What are the risk factors associated with the 'Chronic' and 'Delayed' outcome?
 - What are the resilience factors associated with the 'Resilience' and 'Recovery' outcome?



Methodology

- Design
 - Repeated measures questionnaire design (6 months & 2 years)
- Participants
 - 179 bushfire exposed participants at Time 1 (6 months)
 - 105 bushfire exposed participants at Time 2 (2 years)
- Measures
 - Demographics
 - Personal loss, property loss and relocation questions
 - Previous trauma history
 - PTSD Checklist (PCL-C)
 - Alcohol Use Disorders Identification Test (AUDIT)
 - Psychological and somatic distress (SPHERE)



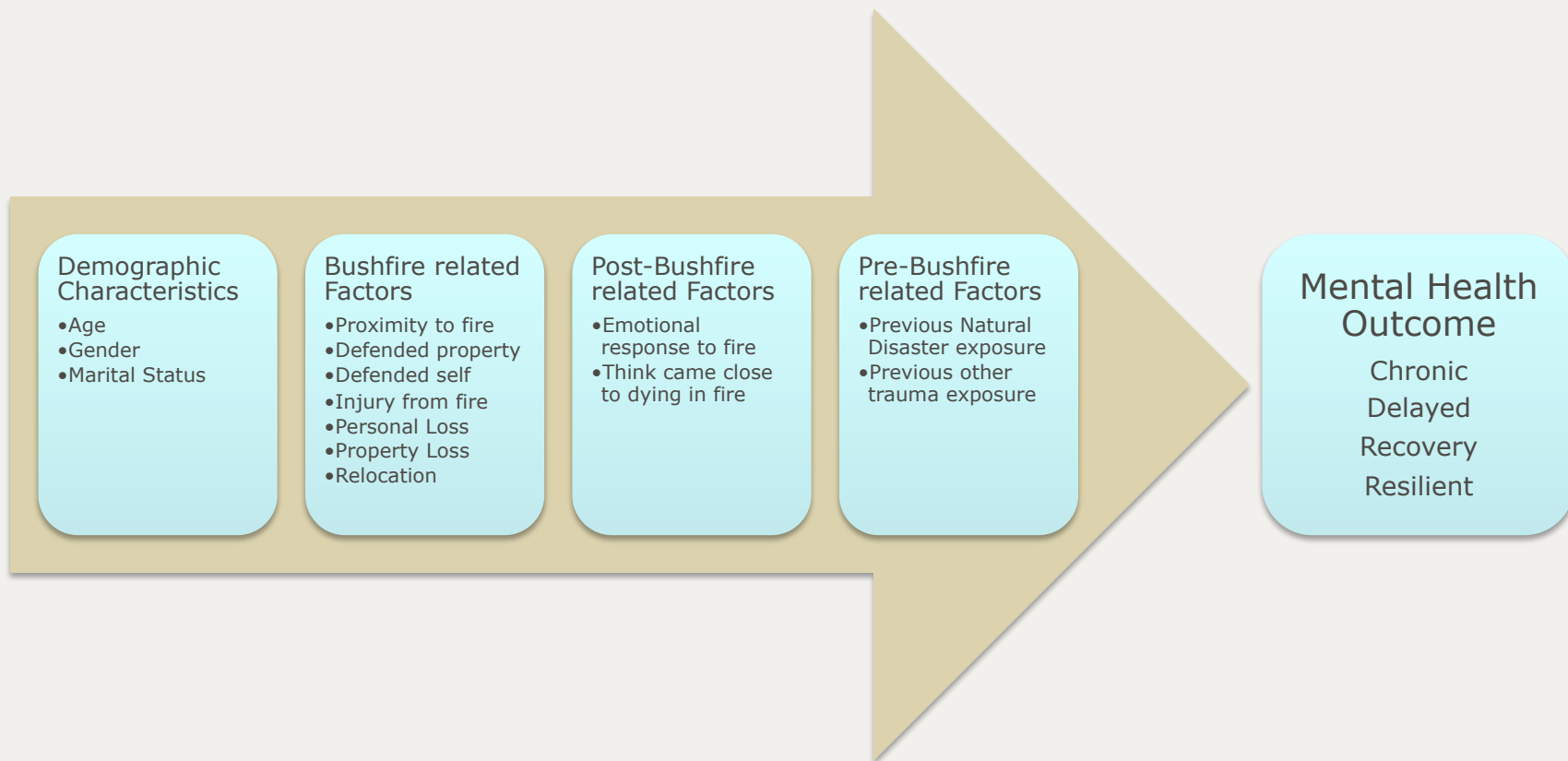
Methodology – continued

- Procedure
 - Time 1 Recruitment: 600 potential participants
 - Time 2 Recruitment: 179 Time 1 participants
- Conceptualisation of mental health outcome groups

	Disorder @ Time 1	No Disorder @ Time 1
Disorder @ Time 2	Chronic	Delayed
No Disorder @ Time 2	Recovered	Resilient



What are the independent factors?



Results - Demographics

	6-months (N=179)	2-years (N=105)
Age	51.9 (15.1)	55.2 (13.4)
Gender		
Male	94 (52.5%)	55 (52.4%)
Female	85 (47.5%)	50 (47.6%)
Work status		
Full time	79 (44.1%)	44 (41.9%)
Part time	29 (16.2%)	19 (18.1%)
Unemployed	4 (2.2%)	2 (1.9%)
Home duties	22 (12.3%)	15 (14.3%)
Retired	33 (18.4%)	18 (17.1%)
Student	1 (0.6%)	1 (1.0%)
Other	11 (6.2%)	6 (5.7%)
Marital status		
Never married	18 (10.1%)	3 (2.9%)
Married / Defacto	140 (78.7%)	84 (81.6%)
Separated / Divorced	9 (5.1%)	6 (5.8%)
Widowed	11 (6.1%)	10 (9.7%)

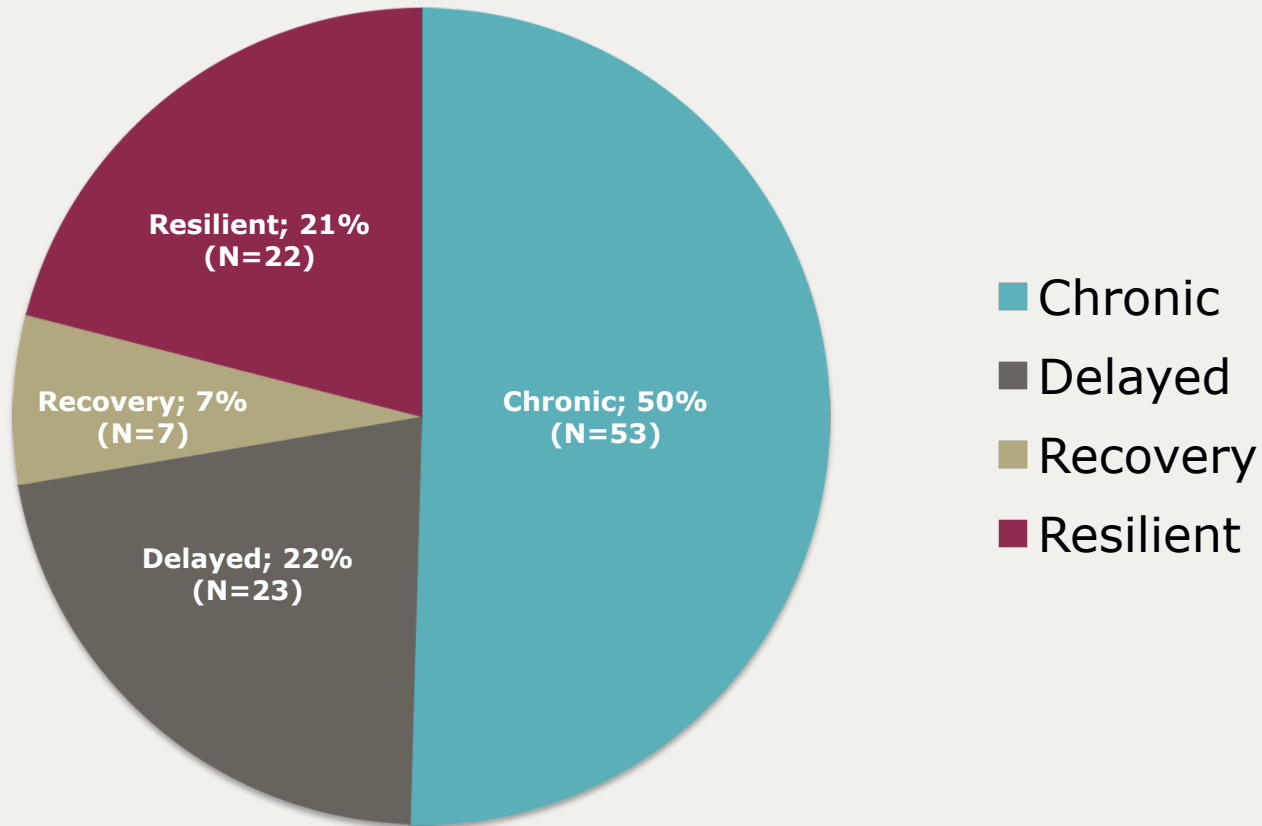


Results - Caseness

	6-months N (%)	2-years N (%)
PCL cases	42 (23.5%)	17 (16.5%)
AUDIT cases	37 (21.4%)	18 (21.3%)
SPHERE (Psych/Soma) cases	71 (40.3%)	38 (38.4%)



Results – Mental Health Outcome groups



Chronic group

Time 1	Time 2	N (%)
PTSD	PTSD	8 (15.1%)
	Alcohol	3 (5.7%)
	Psychological distress	1 (1.9%)
Alcohol	PTSD	3 (5.7%)
	Alcohol	15 (28.3%)
	Psychological distress	9 (17%)
Psychological distress	PTSD	0
	Alcohol	7 (13.2%)
	Psychological distress	7 (13.2%)



Predictors for Chronic group

N=53	Odds Ratio (95% CI)	p-value
Demographic factors		
-Age	.967 (.926 – 1.008)	.116
-Gender	.522 (.182 – 1.501)	.228
-Marital Status	1.118 (.387 – 3.232)	.836
Bushfire related factors		
-Proximity to fire	1.109 (.750 – 1.638)	.605
-Defended property from fire	.783 (.212 – 2.89)	.714
-Defended self from fire	2.922 (.793 – 10.762)	.107
-Injury from fire	1.171 (.256 – 5.35)	.838
-Personal loss	1.19 (.844 – 1.676)	.321
-Property loss	1.034 (.942 – 1.135)	.486
-Relocation	2.333 (.107 – 50.982)	.590
Post-Bushfire related factors		
-Experience of fire	1.122 (.639 – 1.972)	.688
-Think came close to dying	8.32 (1.706 – 40.57)	.009*
Pre-Bushfire related factors		
-Previous Natural Disaster	1.859 (.379 – 9.117)	.445
-Previous other Trauma	.468 (.131 – 1.666)	.241



Delayed group

Time 1	Time 2	N (%)
No Disorder	PTSD only	1 (4.3%)
	Alcohol only	1 (4.3%)
	Psychological distress only	14 (60.9%)
No Disorder	PTSD & Alcohol	0
	PTSD & Psychological distress	1 (4.3%)
	Alcohol & Psychological distress	1 (4.3%)
No Disorder	All three (PTSD, Alcohol & Psychological Distress)	0



Predictors for Delayed group

N=23	Odds Ratio (95% CI)	p-value
Demographic factors		
-Age	1.05 (1.006 – 1.104)	.026*
-Gender	1.552 (.535 – 4.504)	.418
-Marital Status	1.525 (.630 – 3.693)	.349
Bushfire related factors		
-Proximity to fire	.972 (.651 – 1.451)	.889
-Defended property from fire	.626 (.186 – 2.104)	.449
-Defended self from fire	1.006 (.338 – 2.999)	.991
-Injury from fire	1.349 (.335 – 5.434)	.674
-Personal loss	.912 (.704 – 1.182)	.487
-Property loss	.985 (.902 – 1.076)	.744
-Relocation	1.167 (.133 – 10.221)	.889
Post-Bushfire related factors		
-Experience of fire	.637 (.339 – 1.199)	.162
-Think came close to dying	.290 (.086 – .975)	.045*
Pre-Bushfire related factors		
-Previous Natural Disaster	.364 (.079 – 1.675)	.194
-Previous other Trauma	3.442 (.837 – 14.156)	.087



Recovery group

Time 1	Time 2	N=7 (%)
PTSD only	No Disorder	0
Alcohol only		1 (14.3%)
Psychological distress only		5 (71.4%)
PTSD & Alcohol	No Disorder	0
PTSD & Psychological distress		1 (14.3%)
Alcohol & Psychological distress		0
All three (PTSD, Alcohol & Psychological Distress)	No Disorder	0



Predictors for Resilient group

N=22	Odds Ratio (95% CI)	p-value
Demographic factors		
-Age	1.035 (.992 – 1.079)	.116
-Gender	1.915 (.666 – 5.503)	.228
-Marital Status	.894 (.309 – 2.584)	.836
Bushfire related factors		
-Proximity to fire	.902 (.610 – 1.333)	.605
-Defended property from fire	1.277 (.346 – 4.713)	.714
-Defended self from fire	.342 (.093 – 1.261)	.104
-Injury from fire	.854 (.187 – 3.90)	.838
-Personal loss (weighted)	.841 (.597 – 1.184)	.321
-Property loss (weighted)	.967 (.881 – 1.062)	.486
-Not Relocated	1.5 (.147 – 15.355)	.733
Post-Bushfire related factors		
-Experience of fire	.891 (.507 – 1.566)	.688
-Think came close to dying	.120 (.025 – .586)	.009*
Pre-Bushfire related factors		
-Previous Natural Disaster	.538 (.110 – 2.639)	.445
-Previous other Trauma	2.137 (.600 – 7.610)	.241



Preliminary Results – 7 year follow-up

	6-months N=179 (%)	2-years N=105 (%)	7-years N=170 (%)
PCL cases	42 (23.5%)	17 (16.5%)	18 (14.4%)
AUDIT cases	37 (21.4%)	18 (21.3%)	22 (17.6%)
SPHERE cases	71 (40.3%)	38 (38.4%)	52 (41.6%)

