

Setting the standard for projection of climate-related risk and opportunity

Climate Projections – Resolution Mitcham LGA

Average Daily Maximum Temperature, 1990-2020 Number of days/annum with Maximum Temperature > 38°C, 2010



Playford LGA: 2010-2050 Forty2 Science

Average Daily Maximum Temperature in January



Playford LGA: 2010-2050 Forty2 Science - TII

Average Winter (June) Rainfall



Tea-Tree Gully LGA: 2010-2050 Forty2 Science - TII

Days with Rainfall > 60mm

0.5

0.4 0.3 0.2 0.1 0.0





One in x years	Events per year	Eq. 24 hour Rainfall (mm)	Rainfall Events (Forty2 Science)			
			2030	2050	2070	2090
500	-	138.7	140	250	200	75
100	-	109.0	65	65	45	30
50	-	96.9	40	40	25	20
20	-	81.6	22	18	13	11
10	-	70.9	12	10	8	7
-	0.2	61.6	0.15	0.19	0.22	0.26
-	1	41.0	0.6	0.81	0.8	0.77

Location-Specific Flood Risk



FORTY2 SCIENCE

High Resolution Climate Projections LGA Implications

Quantitative.....Accurate.....Predictive



Land Use

- Unviable crops/viable
 alternatives
 - Agriculture, energy
 - Housing
 - Urban plantings
 - Biodiversity
- Changes in output logistics and supply chains
- Urban design



Heat

- Future frequency and intensity of heatwaves
- Health effects
 - Days off work
 - Hospitalisation
 - Excess death
 - Comorbidities/SES
- Energy storage and transmission



Fire/Flood/Drought Risk

- Governance
- Organisational Adaptation
 - Planning and Service
 Delivery
 - Cost-Benefit analysis
 - Depreciation
 - Insurance

