Appendix 2. Farmers Observed Change in Weather Patterns Results

Table A2.1: Farmers' observed change in weather patterns over time grouped according to area (i.e., mountain, vlakte and coast) within catchment (i.e., Duiwenhoks/Breede; Goukou and Goukou/Gouritz).

		RAINFALL	TEMPERATURE	WIND
DUIWENHOKS/ BREEDE	**Mountain**	• Rainfall has become less predictable and increasingly unstable • Increase of single intense rainfall events • Shift of seasonal winter rainfall into summer months • Longer dry periods between rainfall	• Winter season is now cold for shorter period of time	• No noticeable change observed
	Vlakte	• Increase of intense rainfall events • Longer periods of dry spells between rainfall events • Change from predictable drizzle periods over winter (50 + years ago) to more variable/extreme events, but average annual rainfall amount stays consistent overall • Consistently low rainfall years in 1990s and above average rain after 2010 • Seasonal winter rainfall decreased and summer rainfall increased	• Winters are not as cold compared to 20 + years ago • Summers feel hotter (but high uncertainty)	• Less north-westerlies (in winter) and shift to south-westerlies or southerlies
	Coast	• More rainfall in one event	• Hotter daily temperatures over last five years	• No noticeable change observed
GOUKOU	**Mountain**	• Over last 10 years rainfall shifted a month later but no clear pattern • Increase of single intense rainfall events, but average annual rainfall amount stays consistent overall • Spring and summer months have more extreme rainfall events – winter rainfall become less reliable over time	• Summers are generally hotter	• South-easter blows rain to mountains

	Vlakte	• Last 10 years rainfall patterns shifted to later than usual • Fewer wetter winters – traditional winter rainfall shift into summer months • Increase of single intense rainfall events, no longer spread out over drizzle events (compared to 50 + years ago) • Wet and dry years are harder to predict – increased variability • Longer periods of dry spells between rainfall events • Onset of rainfall season shift by a month – from e.g. March to April	• Last five years had more extreme hot and cold days	• Since 2010, less north-west winds and more southerly to easterly winds (from the sea)
	Coast	• More intense rainfall over shorter period of time and more varied – no longer softer rainfall over longer periods of time • 20 + years ago had set seasons (typical spring and autumn rainfall) now highly variable	• Winters are not as cold • More extreme cold and hot events	• 30 + years ago used to get more regular 'berg' wind (hot dry northerly wind blowing from the interior to coastal district) now shifted to more coastal winds
GOUKOU/ GOURITZ	**Mountain**	• No noticeable change observed	• No noticeable change observed	• No noticeable change observed
	Vlakte	• More varied and unusual rainfall patterns over last 15 years • Increase of intense rainfall events • Opposite trend to western extent of Western Cape – receive good rainfall when drought in (e.g.) the Swartland	• No noticeable change observed	• Less north-west winds recently
	Coast	Not surveyed	Not surveyed	Not surveyed