

2019-20 Sustainable Land Management and Climate Change Research Programme – Funded Projects

Project Number	Project Title	Applicant	Project Summary	Total (ex. GST)
Theme 1: Extension of climate change research				
406093	New knowledge, tools and practices for rural professionals	New Zealand Agricultural Greenhouse Gas Research Centre (NZAGRC)	This project will analyse the current state of knowledge by rural professionals on climate change issues, the questions being asked, information requirements and how this might be most appropriately conveyed to them. The outcome will be an extension system designed for rural professionals.	\$150,000
406094	Adapting and mitigating wildfire risk due to climate change: Extending knowledge and best practice	New Zealand Forestry Research Institute Limited (Scion)	The aim of this project is to enhance the preparedness of New Zealand rural landowners and related agencies for future extreme fires. It will do so by combining physical climate science driven threat assessments with location specific societal adaptation and mitigation best practices.	\$150,000
Theme 2: Impacts of climate change and adaptation				
406096	Flexible policy pathways for enabling climate change adaptation	Landcare Research New Zealand Limited (Manaaki Whenua - Landcare Research)	Drawing on insights from resilience, systems thinking and adaptation literatures, the project will use path dependency to explore the degree to which current policies enable or constrain climate change adaptation responses.	\$166,490
406104	Adaptation and transformation: resilient responses to change in New Zealand primary industries	Landcare Research New Zealand Limited (Manaaki Whenua - Landcare Research) and AgResearch Limited	This project will produce a suite of practical climate change adaptation actions with broad applicability across the sectors. Farmers and scientist will collaborate to develop the suite of actions, based on existing scientific knowledge.	\$500,000
40697	Developing strategies for risk assessment and adaptation in the primary sector	New Zealand Forestry Research Institute Limited (Scion)	This project will test the applicability of the Task Force on Climate related Financial Disclosures (TCFD) protocol and methods from insurance to the primary sector within a forestry context. The project will focus on how expanded risks can be evaluated and used to develop successful adaptation strategies. The aim is to develop tools and methods for managing climate risk built on an understanding of impacts on operations, finances, environmental and social goals, and knowledge gaps.	\$150,000
406098	Review of Free Air Carbon Dioxide Enrichment results in relation to impacts of elevated carbon dioxide on future farm practices	AgResearch Limited	This project will translate research results from the long-standing FACE (Free Air Carbon Dioxide Enrichment) experiment into learnings for farm practice. This will be done by modelling an actual farm with a farm system model incorporating FACE data. The focus will be on management practices in a high-carbon dioxide world, specifically on the effective use of new species such as plantain.	\$150,000
406099	Support for the National Climate Risk Assessment: Processes for the identification and quantification of climate change risk	New Zealand Forestry Research Institute Limited (Scion)	This project will develop methods for identifying and quantifying risk in the primary sectors, using a scenario planning process. It will also involve consultation with experienced practitioners from primary industry partners, finance and commerce sectors, government, the farming community and iwi/hapu.	\$149,500
406100	Improved New Zealand Drought Index	National Institute of Water and Atmospheric Research Limited (NIWA)	This project seeks to improve the existing New Zealand Drought Index (NZDI) through the use of spatially variable and quality assured soil information. This improvement will produce more realistic estimates of potential evapotranspiration and soil moisture deficit, providing more accuracy to NZDI.	\$140,000
Total Approved Funding:				\$1,555,990