

2009 – 10 Program Area Investment

Program 1: Market and Consumer Understanding

Sub Program 1a - Know Your Consumer

To be contracted "That's for me.....That IS me" understanding and leveraging marketing opportunities of engaging wine buyers through virtual communities and other e-based sales channels

AWR 06/01 Stream 3.1 Wine and consumer needs

NWG 06/01 NWGIC Theme 5: Matching wine composition to consumers

Sub Program 1b - Market Opportunities and Development

ABS 08/02 Viticulture collection vintage 2009-10 (vineyard statistics collection)

BAE 08/01 Australian wine industry production and outlook - projections.

UA 08/04 Australia's place in the world's wine markets by 2030: empirical economic analysis of wine globalisation

To be contracted Testing consumer response to the potential introduction of environmental and sustainable claims on Australian wine labels in multiple countries

To be contracted Mapping the decision influencers along the wine industry supply chain

To be contracted Analysis of barriers to trade in wine markets

AWR 06/01 Stream 3.3 Technical, regulatory and trade issues

AWR 06/01 Stream 3.2 Consumer health and safety

Program 2: Winemaking Excellence

Sub Program 2a - New Technologies and Products

AWR 06/01 Stream 1.3 Microbial modulation of wine composition to increase wine value

UA 05/01 Better wine through novel and better informed application of microbiology

AWR 06/01 Stream 2.1 Optimising fermentation performance

UA 05/05 Overcoming inefficient utilisation of fructose as a cause of problem fermentations

AWR 06/01 Stream 1.1 Defining and controlling important volatile compounds in wine and their impact on wine aroma and flavour

AWR 06/01 Stream 1.2 Defining and controlling key phenolic compounds and their impact on wine sensory properties

UA 06/03 Optimised control and management of phenolic composition for improved sensory outcomes and product quality in white wines

UA 06/04 New grape and wine chemistry research initiatives to bring long-term benefits to the Australian wine industry

Sub Program 2b - Managing and Enhancing Wine Quality

AWR 06/01 Stream 2.3 Process measurement and improvement

AWR 06/01 Stream 2.4 Industry applications

CSU 04/03 NWGIC team program for viticulture and oenology research

AWR 06/01 Stream 2.5 Protecting the quality and integrity of Australian wine

To be contracted Wine bottle colour and oxidative spoilage

To be contracted Increase of the Heat Stability of White Wine by Surface Engineered Silica (SES)

AWR 06/01 Stream 2.2 Novel winemaking processes

Program 3: Grapes for Purpose

Sub Program 3a - Vine Improvement and Performance

To be contracted Molecular and genetic strategies to reduce the susceptibility of wine grapes to fungal pathogens

To be contracted Advanced grapevine genetics for varietal improvement

CSP 06/05 Grape juice composition and wine quality from salt excluding rootstocks and characterisation of the chloride exclusion mechanism

CSP 05/01	Optimising canopy function to increase yield while maintaining wine aroma, flavour and colour, with decreased inputs
CSP 05/03	Rootstock breeding program
To be contracted	Enhanced varieties and clones to meet the challenges of climate change and deliver lower alcohol wines
To be contracted	Achieving water use efficiency and improved drought tolerance with rootstocks
Sub Program 3b - Berry Composition	
CSP 05/04	Vines to wine - linking fruit quality to wine flavour and aroma (CSIRO Flagship)
To be contracted	Cell death in Shiraz berries: consequences for grape composition, quality and harvest timing in warm regions
DPI 05/01	Viticultural management of grape tannin and anthocyanin levels to achieve desired wine quality specifications
CSP 06/02	Optimising colour and tannin composition of grapes and wine
NWG 06/01	NWGIC Theme 3: Multiseasonal impacts on vine productivity and grape composition

Program 4: Sustainability of Industry, Environments and Communities

Sub Program 4a - Sustainable Production

NWG 06/01	NWGIC Theme 4: Optimising resource use and protecting the environment
SAR 04/02	Soil management for yield and quality
To be contracted	Managing vineyard's rootzone salinity and maximising water saving by sub-surface irrigation techniques
NWG 06/01-2	NWGIC Theme 2: Vine Health and the environment (protecting yield)
CSP 06/04	Grapevine genes for improved resistance to fungal pathogens to reduce chemical inputs in Australian vineyards
To be contracted	Completing the Smoke Effect Picture: Systems development to reduce the negative effects of smoke on grapes and wine
CSP 05/02	Optimising irrigation for different cultivars
CUT 05/01	Optimising the recovery of vine performance following irrigation during extended periods of water deficit

Sub Program 4b - Environmental Custodians

CSL 06/02	Root-zone management options to minimise off-site impacts of nutrients and pesticides
UA 08/01	Identification of salt accumulating organisms from winery wastewater
MU 08/01	Adaptation of the Australian wine industry to climate change - opportunities and vulnerabilities
MU 08/02	Environment - genotype interactions and the physiological processes determining fruitfulness and yield in grapevines
UA 08/03	Integrating the carbon and water economies of grapevine for optimal management in challenging environments
To be contracted	Understanding frost risk in a variable and changing climate
To be contracted	A window into hotter and drier futures: phenological shifts and adaptive practices
To be contracted	Improving winery refrigeration efficiency

Sub Program 4c - Looking Ahead

DPI 08/01	The three R's - Rootstock, Resistance and Resilience to grape phylloxera
To be contracted	Developing tools for predicting responses of viticultural pests and their natural enemies under climate change: modelling, management and extension

Sub Program 4d - The Next Generation

ARL 05/01	Australian Rural leadership Foundation
DPI 06/01	Developing the leadership capacity of Australia's Wine Industry
GWR Ph08/01	The role of yeast in the generation of important aroma compounds
GWR Ph07/01	Accumulation of smoke derived volatile compounds in grapes and wine

GWR Ph07/02	The analysis of smoke derived volatile compounds in wine
GWR Ph07/03	Examination of the effects of base wine composition and temperature variation on the secondary fermentation characteristics produced in Tasmanian sparkling wines
GWR Ph07/04	Temperature extremes during winemaking: Quantitation and definition of the impact on yeast activity and extraction
GWR Ph07/05	Determining climate change impacts in viticulture in the great southern region of Western Australia
GWR Ph07/06	Incursion preparedness for glassy-winged sharpshooter and the plant pathogenic bacterium <i>Xyella fastidiosa</i>
GWR Ph08/02	Irrigation with Winery Wastewater - Effects on Soil and Plant Health
GWR Ph08/03	Development of an extension approach to assist wine grape growers' adaptation to climate change
GWR Ph08/04	Linking winegrape berry sensory assessment characteristics to wine quality in a changing climate
GWR Ph08/05	Conventional, organic and biodynamic management: Effects on soil properties, vine physiology and wine grape quality
GWR Ph08/06	Stuck and Sluggish Alcoholic Fermentations
GWR Ph08/07	Direct and indirect influences of Partial Rootzone Drying (PRD) on salt uptake, ion accumulation and root-shoot interactions of grapevines
WFA 06/01*	Leadership development in the wine industry

Program 5: Smart Science, Practical Solutions

Sub Program 5a - Knowledge Development

ARR 02/03	AANRO database
NWG 06/01	NWGIC Theme 6: Knowledge management and capacity building
GWR 07/01	Performance Evaluations
To be contracted	Economic cost of endemic pests and diseases

Sub Program 5b - Industry Solutions

To be contracted	Vineyard Irrigation - delivering water savings through emerging technology
GWR 00/2-12	Support for the Strategic Directions Group
AWR 06/01	Stream 4.1 Extension and knowledge transfer - the development and presentation of knowledge to industry personnel
AWR 06/01	Stream 4.2 Creating delivery mechanisms for the efficient transfer of knowledge and provision of technical information to the Australian wine and grape industries
AWR 06/01	Stream 4.3 Communication services and customised information delivery
RD 07/05-1	Enhancing decision making capabilities for riverland growers - "Know your numbers know your risks"
RT 08/03-3	Regulating sugar accumulation through canopy management
To be contracted	Developing a downy mildew management decision webpage for Western Australian wine regions
To be contracted	Australian Wine Environmental Stewardship Coordination
To be contracted	Vineyards for 2025 - Improved industry returns from soil and water research - communication and adoption of research outcomes
GWR 07/02	Innovators' Network

N/A GWRDC Regional Program

Sub Program 5c - Administration and Governance

RIR 04/01 Council of Rural R&D Corporations