

## **RESEARCH PROJECTS NOT INCLUDED IN THE PROGRAMMES**

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### **BACKGROUND**

Specific projects identified by industry as being problem solving or enhancing sustainability and competitiveness.

Include projects in the areas of:

- Cellar effluent
- Wood maturation
- Climate change
- Health benefits of brandy/wine
- Trunk- and soil borne diseases
- Pests and diseases
- Cultivation
- Vinification technology
- Soil Science/Irrigation

**A ANDRAG**

**2009**

The following projects are currently not included in a programme:

**RUNNING PROJECTS**

**CELLAR EFFLUENT:**

<b>COMMITTEE</b>	<b>PROJECT NUM./PROJECT LEADER</b>	<b>PROJECT TITLE</b>	<b>BEGIN DATE</b>	<b>END DATE</b>
Environmenatal Impact	WW 19/13 R Mulidzi	The impact of shorter retention time on wastewater treatment by constructed wetlands	2006	2009
Environmenatal Impact	WW 18/29 R Mulidzi	The irrigation of cash crops in rural areas with wastewater from constructed wetlands used to treat winery wastewater	2005	2009
Environmenatal Impact	WW 19/14 P Myburgh	The impact of winery wastewater for irrigation of vineyards on soils, crop growth and wine quality	2009	2014

**WOOD MATURATION:**

<b>COMMITTEE</b>	<b>PROJECT NUM./PROJECT LEADER</b>	<b>PROJECT TITLE</b>	<b>BEGIN DATE</b>	<b>END DATE</b>
Vinification technology	WW WdT 07/02 W du Toit	Establishing stave dosages comparable with an oak barrel	2005	2008

**CLIMATE CHANGE:**

<b>COMMITTEE</b>	<b>PROJECT NUM./PROJECT LEADER</b>	<b>PROJECT TITLE</b>	<b>BEGIN DATE</b>	<b>END DATE</b>
Vinification technology		Deciduous Fruit and Wine Industry Carbon footprint project	2008	2010
Plant Protection	WW 06/38	Potential impact of climate change on grapevine diseases of economic importance to South Africa	2009	2009

**HEALTH BENEFITS OF BRANDY & WINE**

<b>COMMITTEE</b>	<b>PROJECT NUM./PROJECT LEADER</b>	<b>PROJECT TITLE</b>	<b>BEGIN DATE</b>	<b>END DATE</b>
Brandy & Distillation	US/HS/DvV D van Velden	Potential health benefits of moderate Brandy consumption	2008	2010
Microbiology	UCT 01/2001 D Blackhurst	Health Benefits of Wine		
Microbiology	ID 2673 D van Velden	The influence of the Mediterranean Diet complemented with red wine in the prevention of the Metabolic Syndrome and Insulin Resistance		
Microbiology	D Blackhurst	Health benefits of low-alcohol wines	2010	
Microbiology	M Kotze	Development and application of a pathology supported genetic assay to assess the impact of hereditary factors on health outcomes in individuals subjected to a wellness screen	2010	2014

**TRUNK- AND SOIL BORNE DISEASES:**

<b>COMMITTEE</b>	<b>PROJECT NUM./PROJECT LEADER</b>	<b>PROJECT TITLE</b>	<b>BEGIN DATE</b>	<b>END DATE</b>
Plant Protection	WW 05/17 A de Klerk	Chemiese beheer van Wingerd- Margarodes in die Oranje rivier besproeiingsgebied	2006	2009
Plant Protection	WW 06/33 F Halleen	Environmentally-safe management of grapevine trunk diseases in nurseries	2006	2009
Plant Protection	WW 06/34 F Halleen	Pro-active control of Petri Disease and Black foot Disease in newly established vineyards	2006	2010
Plant Protection	US PP 04/2004 P Fourie	Diagnosis, epidemiology and integrated management of trunk diseases of grapevines	2004	2008
Plant Protection	US PP 05/2005 P Fourie	Alternative hosts of grapevine trunk disease pathogens	2005	2008
Plant Protection	US PP M1 A McLeod	Characterisation of <i>Pythium</i> & <i>Phytophthora</i> species associated with grapevine decline	2005	2008
Plant Improvement	WW 12/27 K Hunter	Factors involved in abnormal graft union development	2008	2012
Plant Protection	PCA1 A de Klerk	Identifisering van die feromoon van <i>Margarodes prieskaensis</i>	2008	2011
Plant Protection	WW 06/39 F Halleen	The role of insects in the dispersal of trunk disease pathogens	2009	2012

**PESTS AND DISEASES:**

<b>COMMITTEE</b>	<b>PROJECT NUM./PROJECT LEADER</b>	<b>PROJECT TITLE</b>	<b>BEGIN DATE</b>	<b>END DATE</b>
Plant Protection	WW 06/37 F Halleen	Die epidemiologie en etiologie van swamme betrokke by die wingerdsiekte Esca	2009	2011
Plant Protection	US E 08/A1 - P Addison	Generating a database of deciduous fruit pests in the Western Cape	2009	2013
Plant Protection	230073	Measurement and evaluation of the effects of soil factors on ring nematode ( <i>Criconemoides xenoplax</i> )	2009	2012
Plant Protection	WW05/18 – A Vermeulen	Development of Integrated Snail Management Systems in Vineyards of the Western Cape	2009	2013

**CULTIVATION:**

<b>COMMITTEE</b>	<b>PROJECT NUM./PROJECT LEADER</b>	<b>PROJECT TITLE</b>	<b>BEGIN DATE</b>	<b>END DATE</b>
Cultivation	WW17/01 – D van Schalkwyk	Instandhouding en uitbreiding van 'n genebron vir wingerd	1986	2020
Cultivation	WW 18/31 N Volschenk	Unconventional cultivation of grapes for juice, distilled and rebate wine	2004	2013

**SOIL SCIENCE/IRRIGATION:**

<b>COMMITTEE</b>	<b>PROJECT NUM./PROJECT LEADER</b>	<b>PROJECT TITLE</b>	<b>BEGIN DATE</b>	<b>END DATE</b>
Soil Science	WW 04/23 P Muburgh	Bepaling van optimale besproeiingskedules vir drupbesproeide wingerde in die Breëriviervallei	2006	2009
Soil Science	WW 13/15 J Wooldridge	Effect of soil mineralogy and potassium buffer capacity on wine quality	2006	2009
Soil Science	WW 02/17 J Fourie	The effect of irrigation method and frequency on the performance of selected cover crops and the effect of these management practices on grapevine performance and soil quality in the Breede River Valley	2007	2011
Soil Science	WW 02/20 J Fourie	The evaluation of different indigenous Renosterveld species for cover crop management in the Coastal region, specifically for competition and environmental effects	2007	2011
Soil Science	WW GDT 2 A Strever	Evaluating the use of between row sub-surface irrigation and selective water stresses using novel measuring techniques: quantification and characterization of water stress in the grapevine for the use in plant and fruit improvement	2006	2009
Soil Science	WW AS 2 A Strever	'n Studie van die interaksie tussen wingerdstok-groei-krag en water-spanning met inkorporering van konvensionele sowel as nie-destruktiwe meetmetodes	2006	2009
Soil Science	WW 03/14 K du Plessis	Effect of soil surface management practices and soil parameters on soil microbiology and grapevine performance	2008	2011
Soil Science	WW 02/21 J Fourie	The effect of two cover crop management practices applied to cover crops, selected for their potential to bio-fumigate the soil, on the nematode and weed population, as well as grapevine performance and soil quality	2009	2014
Soil Science	US/EE/SJ S Jacobs	Bottom-up controls on growth and physiological properties of Vitis vinifera associated with 'heuweltjies' (termitaria)	2009	
Soil Science	US/SS/EH E Hoffman	Evaluering van Grond-voorbereidingspraktyke wat tans in die bedryf uitgevoer word in terme van geselekteerde grondfisiese eienskappe en produksie deur middel van opname studies in die verskillende produksie gebiede	2009	2011

**VINIFICATION TECHNOLOGY:**

<b>COMMITTEE</b>	<b>PROJECT NUM./PROJECT LEADER</b>	<b>PROJECT TITLE</b>	<b>BEGIN DATE</b>	<b>END DATE</b>
Vinification Technology	WW 08/31 J Marais	Compilation of databases of aroma compounds in the wines of six important cultivars	2006	2008
Vinification Technology	IWBT 3/1 P van Rensburg	Determining factors influencing succinic acid production in wine	2005	2008
Vinification Technology	WW WdT 08/01 W du Toit	Factors influencing SA white wines during bottle ageing	2008	2009
Vinification Technology	IWBT 08/15 F Bauer	Investigation into burnt rubber aroma in SA wines	2008	2008
Microbiology	WW 10/19 N Jolly	Preliminary survey of glucose:fructose ratios in grape must from the Western Cape wine growing region	2006	2008
Vinification Technology	WW 08/30 F van Jaarsveld	The role of metals on the (in)stability/maturation rate/"houvermoë" of wines	2009	2011