

## **Marlborough Focus Vineyard Annual Work Plan 2005/2006**

<b>Quality grapes quality wine</b>			
<b>Marlborough Focus Vineyard</b> – Committee Members Robin Hammond, Richard Hunter, Dr Mike Trought, Dr Marc Greven, Andrew Naylor, Heather Davis, Max Gifford, Edward Ensor, Jeremy Hyland, Prue Wisheart, Dominic Pecchenino, Bart Arnst and Sally van der Zijpp.			
<b>Milestones</b>	<b>Description</b>	<b>Date Expected</b>	<b>Outcome Date Revised</b>
1	Meetings by MFV Committee – Agenda/reports	By 25 <sup>th</sup> each month or as required	Minutes to National /Regional committees
2	<p>MFV Field Day</p> <ul style="list-style-type: none"> <li>• develop/coordinate field day programmes. Programmes to provide best practice guidelines</li> <li>• HBFV Field attendance</li> <li>• Report to growers on projects identified on MFV sites. Wine Growers Marl.</li> </ul>	<p>May/June 2006</p> <p>Once/year</p> <p>Quarterly</p>	<p>Field day/programme:</p> <ul style="list-style-type: none"> <li>* Grape Y. - Nov 05.</li> <li>* Pt/ disease – Dec 05.</li> <li>* Irrigation –Feb 06</li> <li>* Property walks – May 06.</li> </ul> <p>Data presented posted website within 10 days.</p> <p>Grower/industry feedback</p>
3	<ul style="list-style-type: none"> <li>• Initiate 2005-06 research protocol/milestones.</li> </ul> <p>Collation of the various projects into report form.</p>	<p>Oct 2005</p> <p>Monthly</p>	Report National quart. Sept, Dec, Mar, June
4	<p>Develop MFV target specific project sites –</p> <ul style="list-style-type: none"> <li>• Tohu- vine nutrient</li> <li>Stembridge – pest and disease</li> <li>Tyntesfield – vine water requirements</li> <li>• split present sites controlled (1) grower (2) committee members (best practice).</li> <li>• retain all monitoring protocol for each project on all MFV sites –</li> </ul> <p>Communication as required by Nat Committee</p>	<p>Sept 2005</p> <p>Monthly review.</p> <p>As required</p>	<p>MFV grower agreement - Sept 05.</p> <p>Results – nutrient values, irrigation requirements, pest and disease impacts, grape yields. Bench mark.</p> <p>Reports - field days, media, web site.</p>
5	<p>Investigate and develop sponsorship links with key industry and service links for:</p> <ul style="list-style-type: none"> <li>• irrigation/weather/soil nutrients/pest and disease information and communication processes</li> </ul>	Dec 2005	<p>Links:</p> <ul style="list-style-type: none"> <li>• Netafim</li> <li>• Fruit Fed</li> <li>• Ravensdown</li> <li>• VineFax</li> <li>• Microclimate</li> </ul>



4	Report results to field days on MFC monitoring site and other research work being carried out in the district by Fruition, HortR and Netafim.  Data collation and analysis/ model. Fruition.	Once a year  Monthly or as required.	Info to web site and Field day presentations
5	Dissemination information – grower network, media and field days. Report as required.  Link with SWNZ  Link with Page/Bloomer Associates	Ongoing (monthly)  Monthly  As required	Web site and Field day.  Sustainable systems
6	Weather Station and water monitor setup on Stembridge and Tynesfield (Netafim). Tohu data develop for grower use (HortR)	Dec 2005	Web site
7	Model development to make more user friendly (weather related) - HortR	June 2006	Web site

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**Grape Yield Assessments** – Dr Michael Trought Lead Scientist Marlborough Wine Research. Dominic Pecchinino, Viticulturalist Matador Estate, Diane Stewart, Viticulturalist Nobilo Estate Marlborough.

<b>Milestones</b>	<b>Description</b>	<b>Date Expected (month/year)</b>	<b>Outcomes or Date revised</b>
1	Technician employed – training requirements developed. Protocol, data collection(methods)/collation/spreadsheet.	Nov 2005	Skill base advanced
2	Analysis of previous seasons pruning weights and canes laid - data to report form.	Oct 2005	Web site updated Nov 2005
3	Collect canes laid data from every 5 <sup>th</sup> row of the FV blocks to give percentage use. Data collated spreadsheet input	Oct 2005	Web site updated Nov 2005
4	50 sub-plots per block randomly identified and tagged. Measuring buds laid, buds broken. Data collated spreadsheet input	Nov 2005	Website updated Nov 2005
5	Bunch number counted /recorded each plot. Measuring at each site. Data collated spreadsheet input	Dec 2005	Web site updated Dec 2005
6	Dissemination information – grower network, media and field days.  Yield assessment – Present last years results. Yield assessment techniques, update on this years' progress, Number of canes laid (percentage technique), link to website and a winery perspective – Why we need to get it right	Nov 2005  Nobilo Winery Allied Domeq	Field day  Data collated monthly – using
7	Post fruit set/pre-veraison, bunches from shoots harvest adjacent to tagged bays (60 bunches). Record individual bunch weight and count number of berries.	Feb 2006	Web site updated Feb 2006
8	Yield estimations. Harvest block plots and weigh. Yield per block final estimations –collation industry price evaluations/receive actual harvest tonnage and compare with estimates.	April 2006	Web site updated April 2006
9	Data analysis collation and report preparation. Compare yield assessment with percentage canes laid. Data analysis will determine – variability and reliability in estimation of yield components. Benchmark collation of data – 20 growers.	May 2006	Web site updated May 2006

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**Pest and Disease Management** – Andrew Naylor (Allied Domeq), S.I. Field Manager. Heather Davies Grower. Jason Fraser Fruit Fed, Crop Monitoring Co-ordinator.

<b>Milestones</b>	<b>Description</b>	<b>Date Expected (month/year)</b>	<b>Outcomes or Date revised</b>
1	Liaison with provider/funding provisions. Design format of information needed to assess current and future practices. Fruit Fed model and data base.	Monthly or as required	Grower/ industry feedback
2	Collect information from MFV sites management practices up until now.	Monthly or as required	Web site info
3	Fruit Fed protocol Identify key insect pests/disease/viruses/beneficials.  Increase inspection visits to Gifford property  Continue to monitor Tohu and Ensor vineyards	Oct 2005  Weekly (from Oct 05 to Apr 06)  Fortnightly (from Oct 05 to Apr 06)	Web site info
4	Assist growers (MFV) with monitoring timing to ensure standardisation (SWNZ).	Nov 2005 and as required	Web site info
5	Reports – disease/pest identity, location and severity.	Weekly from Fruit Fed	Web site info VineFax
6	Formulate appropriate and effective control measures. Supply water sensitive paper and assist with spray deposition checks.  Split blocks into grower and advisory decisions for comparison	Weekly – MFV grower and committee  Sept 05	Compare outcomes with Fruit Fed data base Blocks identified-monitored
7	Report – data collated and analysed costs/time of current practices – benchmark 20 growers.	Nat/Reg. committees/ media	Monthly, quarterly, and Annual
8	Dissemination information – grower network, media and field days.	Dec 2005	Field day responses
9	Liaison with Sustainable Winegrowing New Zealand – benchmark, data collation and analysis.	Ongoing	Web site

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**Vine Nutrients** – Dominic Pecchinino, Matador Estate. Bart Arnst, Seresin Estate. Ravensdown Fertiliser, Hills Laboratory.

Milestones	Description	Date Expected (month/year)	Outcomes Date revised
<b>SOIL NUTRIENTS</b>			
1	Continue monitoring current sites on all MFV sites.  Basic Soil Sampling Analysis (>50mm and 500-650mm) – include pH, P, Ca, K, Mg, Na, CEC and BS, V. wt, SS, OM, Bo, available N and, Trace elements and any other nutrient that may be identified from time to time - fertiliser recommendations.	Oct 2005  Nov 2005	Test results  Grower recommendations  Committee recommendations
2	Reassess Tohu – for concentrated block monitoring Select new sites (2) then evaluate nutrients (300 mm intervals), soil depth, texture, and permeability for these extra sites.	Oct 2005	Test results
3	Review previous MFV fertiliser history, collate and analyse production yields.	Dec 2006	Data to web site
4	Bench mark results –block responses.	June 2006	Data to web site
5	Dissemination information – grower network, media. Field Day – Bringing it all together	June 2006	Web site updated
<b>PLANT NUTRIENTS</b>			
7	Technician employed – training requirements developed	Nov 2005	Monitoring skills
8	Continue monitoring current nutrient sites at Stembridge and Tyntesfield.  While carrying out concentrated monitoring of the Tohu block	Nov 05 – June 06  Seasonal requirements	Test results  Test results
9	Tohu Block protocol – for nutrient movements  Collect both petiole and blade samples at the basal bunch and growing tip at various growth pH, Total N, Na, Cl, Si and Brix as required. <ul style="list-style-type: none"> <li>• Flowering (80%)</li> <li>• Veraison</li> <li>• Pre-harvest (including juice analysis for minerals) To identify grape quality and fermentation characteristics influenced by mineral profiles</li> <li>• Post-harvest</li> <li>• Wood analysis</li> </ul>	Nov 05 - Jun 06  Late Nov 2005 Feb 2006 Mar 2006  Apr/May 2006 June 2006	Data posted on website as collected  Test results
10	Investigate the potential of sap analysis – collection	June 2006	

	and methods of analysis need to be developed. Records dynamic changes over time, integrating crop observations, weather, irrigation, management and crop history – fertiliser recommendations and applications set from analysed results. Develop with Ravensdown Fert.		Protocol development, test procedures
11	Benchmark soil, petiole, sap, and juice and pruning mineral analysis with production responses. To spread sheet.	Jun 2006	Benchmark results
12	Report – data collated and analysed costs/time of current practices -dissemination information grower network, media and field days.	Jun 2006	Field day presentations

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**Economic and Benchmarking** – Richard Hunter RMH & Associates. Carla Emms AgFirst. Rachel Monk MAF Policy. Christine Wishnowsky, Bank of New Zealand and Andrew Clayton, Westpac Agr-Business, Blenheim.

<b>Milestones</b>	<b>Description</b>	<b>Date Expected (month/year)</b>	<b>Outcomes Date revised</b>
1	Develop a spreadsheet identifying – income, expenditure, profit, environmental, people and management factors to determine measurement indicators. Assistance from MAF Policy, HB FV Group, Victoria CSIRO	Sept 2005	Methods reviewed
2	Define target performance measurements (low-med-high). Spread sheet/model developed	Monthly	Web site info
3	“Traffic light” performances NOW to compare target performance.	Sept 2005	MAF Policy results Vit. monitoring
4	Review previous year/s data. (04-05)	Sept 2005	Web site info
5	Assist linkage with MAF Policy financial vineyard monitoring programme, Marlborough (8 properties present) assist to increase to 14.	Sept 2005	MAF Policy report
6	Data analysis – on MFV sites by blocks (Tohu Wines 90, Ensor 27 and Gifford 30).	Jun 2006	
7	Identify area for improvement from data analysis.	June 2006	Method reviewed
8	Determine strategies to improve benchmarking responses.	Monthly or as required.	Model update
9	Collation of data.	Monthly or as required	Model update
10	Develop benchmark linkage Marlborough and Hawke’s Bay – templates, computer programmes (Computer Concepts).	Monthly or as required	Data exchanged
11	Review and begin again. Introduce 5 new properties into the project.	June 2006	Liaison with HB FV
12	Benchmark results to determine and identify other project continuance or new project developments.	Monthly or as required	Web site data updates

**Budget Allocations Summary Marlborough Focus Vineyard**

	<b>GST excl</b>	<b>GST incl</b>
<b>Funds allocated 2004-05</b>	<b>\$93,073.00</b>	<b>\$104,707.13</b>
<b>RESEARCH PROJECTS</b>		
Vine Water	\$27,000	
Grape Yield	\$16,250	
Disease and Pest	\$13,750	
Vine Nutrient	\$15,250	
Benchmarking	\$6,750	
Committee	\$14,073	

<b>Cash Expenditure</b>	<b>Vine water</b>	<b>Grape Yield</b>	<b>Disease Pest</b>	<b>Vine Nutrients</b>	<b>Benchmark</b>	<b>Committee</b>	<b>TOTALS</b>
Personnel (wages/salaries) Technical	3000	9250	250	2750	2750	1200	<b>\$19,200</b>
Co-ordinator	3000	3000	3000	3000	3000	4000	<b>\$19,000</b>
Administration (rent/lease offices, etc.) Overheads	1000	1000	1000	1000	1000	1000	<b>\$5,000</b>
Consultants & Contractors							
• HortR	8000						<b>\$8,000</b>
• Ravensdown/Hills Lab				8500			<b>\$8,500</b>
• Fruition	9500						<b>\$9,500</b>
• Fruit Federation			6500				<b>\$6,500</b>
• Other							
Rental and Leasing of Equipment						500	<b>\$ 500</b>
Communications -Web site/ Media						1500	<b>\$1,500</b>
Travel & Accommodation						3500	<b>\$3,500</b>
Field days/ and Technical Dissemination Costs	2500	3000	3000			1873	<b>\$10,873</b>
<b>Total Cash Costs</b> (excludes GST)	<b>\$27,000</b>	<b>\$16,250</b>	<b>\$13,750</b>	<b>\$15,250</b>	<b>\$6,750</b>	<b>\$14,073</b>	<b>\$93,073</b>

<b>Providers In-kind Contributions</b>	<b>Vine water</b>	<b>Grape yield</b>	<b>Disease Pest</b>	<b>Vine Nutrients</b>	<b>Benchmark</b>	<b>Committee</b>	<b>TOTALS</b>
Committee Members	5000	5000	5000	5000	5000	7200	\$32200
Marlborough District Council	1500			500			\$2000
Netafim	10750 + 33106						\$43856
HortResearch	4500					5000	\$9500
Marl. Research Centre Trust						6500	\$6500
Sustainable Wine NZ	2500	2500	3500	1500	1500	3500	\$15000
Winegrowers Marlborough						5000	\$5000
Ravensdown/Hills				8500			\$8500
MicroClimate	3000						\$3000
MAF Policy					2500		\$2500
Fruition	5000					2500	\$7500
Others	1000	1000	1000	1000	1000	1000	\$6000
<b>TOTALS</b>	<b>\$66356</b>	<b>\$8500</b>	<b>\$9500</b>	<b>\$16500</b>	<b>\$10000</b>	<b>\$30700</b>	<b>\$144056</b>