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# **NORTHWEST CENTER FOR SMALL FRUITS RESEARCH**

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## Grape (Table, Wine & Juice) Viticulture Research Priorities for 2010-2011 funding

Revised December 2008

- 1) Physiological disorders which may include berry shrivel; bunch, stem and inflorescence necrosis; short shoot syndrome; fruit set problems.

Evaluation of scions, rootstocks for cold hardiness, vigor, water requirements, effect of edaphic factors, nutritional status, yield parameters, and grape quality attributes. Soil, biological and chemical below ground environment.

Evaluation of table grape varieties for cold hardiness, vigor, water requirements, effect of edaphic factors, nutritional status, yield parameters, and grape quality attributes

Development of integrated/sustainable production systems

Organic production

Effect of viticulture practices (e.g. nutrient management, canopy management, crop load, water management, vegetation management, cover crops, compost) on the quality of table, juice and wine grapes

Biology and management of powdery mildew, viruses and vectors, mites, nematodes, cutworms, mealy bug, leaf hoppers, Asian lady beetle, Botrytis and sour rot.

- 2) Yield Estimation/Modeling/Yield Prediction

Biology and control thrips, crown gall, weeds, Glassy-winged Sharpshooter, and Eutypa fungal disease

Evaluation of new and lesser known winegrape varieties and clones

- 3) Phylloxera and cane borer

Biodynamic production