

C11-P

USING MUSTARD GREEN MANURES FOR SOIL-BORNE PEST MANAGEMENT

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Mustard green manures (*Sinapis alba* and *Brassica juncea*) are being used on 20,000 acres of irrigated ground in Central Washington to suppress soil-borne pests and improve soil quality. The mustard green manures are being used mainly before potatoes to suppress *Verticillium dahliae*, improve water infiltration, and to control wind erosion. A program of on-farm research and extension has provided growers with information on the ability of these green manures to replace expensive fumigants and to improve soil aggregation and water infiltration. Trials have also been conducted over several years to evaluate biomass production and glucosinolate concentrations of mustard varieties, effects of planting date and N rate, and potential of non-mustard green manures.