

**Mustard Green Manures  
 On-farm Research Results  
 Measurement: Glucosinolate  
 concentrations for mustard varieties**

**Glucosinolate Concentrations of Field-Grown Mustard Shoots**  
**2002**

<i>Brassica juncea</i>	IIC Producing Glucosinolate umol/g <sup>1</sup>
Variety	2-propenyl
PI 458934 <sup>2</sup>	23.9 A
ISCI 20	20.5 A B
Pacific Gold	18.7 A B
ISCI 61	18.6 A B
ISCI 20, from Caliente <sup>3</sup>	17.4 B
	3-butenyl
PI 458934 <sup>2</sup>	3.7 A
ISCI 20	1.9 A B
ISCI 61	1.6 B
ISCI 20, from Caliente	1.4 B
Pacific Gold	1.1 B
	Total
PI 458934 <sup>2</sup>	27.6 A
ISCI 20	22.5 A B
ISCI 61	20.2 A B
Pacific Gold	19.8 B
ISCI 20, from Caliente	18.8 B

<i>Sinapis alba</i>	IIC Producing Glucosinolate umol/g†
Variety	4-OH-benzyl
Ida Gold	21.2 A
Absolut from Caliente	18.7 A B
Ames 19270 <sup>2</sup>	17.7 A B
Martigena	16.0 B
Absolut	15.3 B
	Benzyl
Ames 19270 <sup>2</sup>	10.0 A
Absolut	6.1 B
Ida Gold	4.9 B
Absolut from Caliente	4.8 B
Martigena	2.6 C
	Total
Ames 19270 <sup>2</sup>	27.8 A
Ida Gold	26.0 A B
Absolut from Caliente	23.4 A B C
Absolut	21.4 B C
Martigena	18.6 C

<sup>1</sup> Levels not connected by same letter are significantly different (0.05 level)

<sup>2</sup> Varieties from the USDA-ARS National Plant Germplasm System, not commercially available

<sup>3</sup> Caliente is a commercially available blend of *S. alba* and *B. juncea* varieties

Varieties planted on 8/13 at 10 lb/ac (*S. alba*) and 8 lb/ac (*B. juncea*). Fertilized to provide 120 lb N/ac. Three replicates harvested on 10/17. All analysis done by V. Borek and M. Morra, Soil Biochemistry Laboratory, Soil Science Division, University of Idaho.