TITLE: DOMINUS® AND DOMINUS® 100, ALLYL ISOTHIOCYANATE (AITC) REGULATORY AND DEVELOPMENT UPDATE

Authors: C. Leon*, T. Ivy and M. Allan, Isagro USA Corp.

DOMINUS (IRF135), containing the active ingredient allyl isothiocyanate (AITC) was registered by EPA in September 2013 and subsequently registered in 25 states, California pending. In August 2014, a second formulation was registered under the trade name DOMINUS 100 (IRF166). DOMINUS (97.3% active ingredient) contains an emulsifier and may be used for both drip and shank injection applications. DOMINUS 100 (99.8% ai) is labeled for shank injection applications and will be used alone and in combination with other registered products.

In 2014, trials focused on the primary vegetable crops, strawberry, ornamentals and tobacco. In addition, research focus expanded to include combinations with chloropicrin, 1,3-D, and 3-way mixtures. An update of 2014 trials will be provided.

Table 1. Cucumber growth response, total yield, and gross return for Dominus and Dominus + chloropicrin treated plots compared to Inline and the untreated control.

		Vine		Vine		Cucumber		Estimated Gross	
		Length		Nodes		Weight		Return	
		Inches		Number					
		37 DAT		37 DAT		KG/PLOT		DOLLARS/A	
	Untreated								
1	Control	20.9	b	7.9	b	35.9	С	\$ 19,814.20	С
2	20 gpa Dominus	27.4	а	10.5	а	39.8	bc	\$ 21,968.00	bc
3	30 gpa Dominus	29.1	а	11.2	а	44.9	ab	\$ 24,774.70	ab
4	40 gpa Dominus	29.7	а	10.8	a	50.7	a	\$ 27,971.10	a
	35 gpa								
5	Dominus/Pic	28.7	a	11.3	а	44.7	ab	\$ 24,643.40	ab
6	35 gpa Inline	28.4	а	10.6	a	44.8	ab	\$ 24,727.90	ab

DOMINUS and DOMINUS 100 are in active development in several countries with the intent to register for use as a soil treatment. Following registration in the USA, ISAGRO efforts to date have been focused on the following first tier market opportunities for commercial approval in Mexico, Canada, Italy, Spain, Turkey, Morocco and China. Additional countries remain in review for commercial prioritization following market analysis