

Table 1. Expected Changes in Profit for Selected Comparisons by Location by Year in Dollars Per Acre.

Comparison, Year <sup>a</sup>	Location			
	Landisville, PA	Ithaca, NY	Geneva, NY	Rocksprings, PA
	--- Dollars per Acre ---			
Spray vs. No Spray, 2006	96	5	-20	-23
Resistant vs. Susceptible, 2006	41	0	2	-35
Alfalfa plus Grass vs. Alfalfa Alone, 2006	42	89	31	6
Spray vs. No Spray, 2007	164	-18	-26	-14
Resistant vs. Susceptible, 2007	0	0	0	-79
Alfalfa plus Grass vs. Alfalfa Alone, 2007	-224	-179	-47	-145

<sup>a</sup> Comparisons depict a proposed change in the farm business versus current practice. For example, Spray vs. No Spray compares a proposed change, spraying of an insecticide, to the current practice of no spray. 2006 is the seeding year, and 2007 is the first production year. Alfalfa plus grass vs. alfalfa alone results are extremely sensitive to prices of forage used. Quality factors, percent crude protein and NDF, and whether the stand is considered legume, mostly legume, mostly grass, or grass determine price.

Table 2. Additional Data for Economic Analyses by Comparison.

Comparison	Item	Rate(s)	Price
Spray vs. No Spray	Warrior Insecticide	2 applications per year, commercial applicator, 0.2 pt per acre per application	Material: \$4 per acre per application; Application: \$9 per acre per application
Resistant alfalfa vs. Susceptible alfalfa	Alfalfa seed	Alfalfa alone: 20 pounds per acre; alfalfa in grass mixture: 12 pounds per acre	Resistant and susceptible cultivars: \$3.90 per pound
Alfalfa plus grass vs. Alfalfa alone	Alfalfa seed – see above		
	Grass seed	Timothy: 6 pounds per acre; orchard grass: 7 pounds per acre; tall fescue: 10 pounds per acre	Timothy: 1.36 \$ per pound; orchard grass: 2.25 \$ per pound; tall fescue: 1.54 \$ per pound