Table 1. Yield of peppers organically grown in different tillage treatments, cover crops and soil disturbance at Freeville, NY 2010.

	<u>Yield</u>						
Treatment	Early fruit (tons/a <sup>x</sup> )		Total fruit (tons/a) <sup>y</sup>		Percent of total yield early by wt		
Tillage							
Conventional	3.9		11.2		37.2		
Strip	2.6		8.1		34.3		
Cover Crop							
Rye Vetch	3.0	$b^{z}$	10.4	b	26	c	
Oat/pea	4.8	a	13.9	a	35	b	
Oat/pea with mulch	2.0	c	4.7	c	46	a	
Soil Disturbance							
High	3.3	a	10.2	a	35.0	a	
Low	3.2	a	9.2	b	36.5	a	
Statisical							
Signficance							
Tillage	0.0001		0.001		ns		
Cover crop	0.0003		<.0001		0.0162		
Soil Disturbance	ns		0.026		ns		
Tillage* Cover crop	0.0002		0.0047		0.0299		
Tillage*Soil Disturbance	ns		ns		ns		
Cover crop*Soil Disturbance	ns		ns		ns		
Cover crop*Soil Disturbance*Tillage	ns		ns		ns		

<sup>&</sup>lt;sup>x</sup>Early yield was harvested on August 18 and 30, 2010.

<sup>&</sup>lt;sup>y</sup>Total yield was combined yield from August 18, 30, September 9, 20 and October 7, 2010.

<sup>&</sup>lt;sup>z</sup>Means followed by different letters are significantly different at LSD=0.05.

Table 2. Plant growth and yield of sweet corn produced under conventional and reduced tillage.

Growth/Yield parameter	Conventional till	<b>l</b> -	Reduced till	l <b>-</b>	<i>P</i> -value
Plant height (standing)	53.7 in	b	61.4 in	a	<.0001
Plant height (top leaf extended up)	82.7 in	b	89.7 in	a	<.0001
Above ground biomass dry weight	41.9 g		57.9 g		0.0767
Root biomass dry weight	39.6 g	b	68.6 g	a	0.0455
Ear No. (doz/A)	1443		1491		0.5226
Ear Weight (cwt/A)	104		112		0.0993
Ear Length	8.6 in		8.5 in		0.143
Ear Diameter	1.5 in		1.5 in		0.1586
Brix (% sugar)	20.3	a	17.8	b	0.0001

Table 3. Plant growth and yield of pumpkin produced under conventional and reduced tillage.

	Conventional-		Reduced-		
Growth/Yield parameter	till		till		<i>P</i> -value
Above ground biomass dry weight (g)	24.3	b	42.8	a	0.0106
Root biomass dry weight (g)	1.2		1.8		0.1941
Number marketable fruit	69		86.3		0.0632
Weight marketable fruit (lb)	277	b	367.5	a	0.0366
Weight per fruit (marketable)	4		4.2		0.432
Number unmarketable fruit	11		7		0.1767
Total number fruit	80		93.3		0.1373
Estimated total weight of fruit	321.5		398.2		0.0917
Biggest fruit weight (lb)	6.5		7.1		0.1318

Yield was assessed for a 40-ft section of the three rows in each plot.

Table 4. Plant growth of fall planted brassicas produced under conventional and reduced tillage.

	Conventional-	Reduced-	
Growth/Yield parameter	till	till	<i>P</i> -value
			18-Oct
Above ground biomass dry weight (g)	26 a	16 b	0.0001
Root biomass dry weight (g)	13.9 a	12.6 a	0.5616
			19-Nov
Above ground biomass dry weight (g)	94.6 a	92.5 a	0.889
Root biomass dry weight (g)	21.3 a	20.9 a	0.912