











Table 84. Effects of EarthRenew OMF and fertilizer application on Chlorophyll Index at different crop growth stages for Utah-5270 celery grown under drip irrigation.				
Treatment	Leaf Area Index			
	60 DAP	74 DAP	90 DAP	99 DAP
<i>OMF rate:</i>				
0 t/ha	307	299	247	345
2 t/ha	280	304	268	310
4 t/ha	246	272	249	313
6 t/ha	280	257	261	346
<i>Fertilizer application:</i>				
50% NPK	260	280	242	328
75% NPK	276	276	253	329
100% NPK	298	292	274	329
ANOVA				
<u>Source:</u>				
EarthRenew	ns	ns	ns	ns
Fertilizer	ns	ns	ns	ns
OMF x Fertilizer	ns	ns	ns	ns
ns indicate non-significant treatment effects.				

#### *Yield and Average Head Weight:*

The effects of OMF and fertilizer rates on marketable yield and average weight of marketable celery heads are summarized in Table 85. The marketable yield of Utah-5270 celery was 41 t/ha with average heads weighing approximately 704 g. No significant responses to OMF or fertilizer were observed for marketable yield or average head weight (Table 85).

The lowest marketable celery yield (33.3 t/ha) was observed with the lowest fertilizer regime of 50% fertilizer in un-amended soil. At the lowest fertilizer rate, OMF amendment tended to produce higher marketable celery yields (Figure 11). For example, applying 2.0 t/ha OMF with 50% fertilizer produced 35% higher yield relative to un-amended soil. This indicates that with 2.0 t/ha OMF, the fertilizer rate can be cut back by 50%. At higher fertilizer levels (i.e. 75% and 100%) OMF amendment had no effect on celery yield.

Table 85. Effects of EarthRenew OMF and fertilizer application on yield and average head weight of marketable Utah-5270 celery grown under drip irrigation.		
Treatment	Marketable yield (t/ha)	Average of marketable head (g/head)
<i>OMF rate:</i>		
0 t/ha	38.5	718
2 t/ha	43.1	740
4 t/ha	39.5	646
6 t/ha	41.7	710
<i>Fertilizer application:</i>		
50% NPK	38.8	695
75% NPK	42.2	724
100% NPK	40.9	693
<b>ANOVA</b>		
<i>Source:</i>		
EarthRenew	ns	ns
Fertilizer	ns	ns
OMF x Fertilizer	ns	ns
ns indicate non-significant treatment effects.		

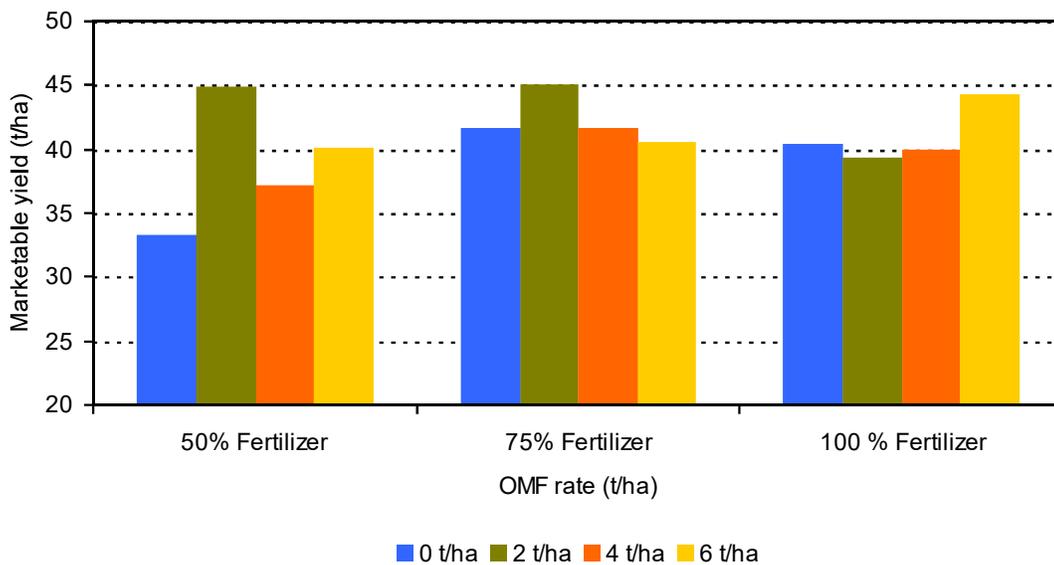


Figure 11. Interactive effects of EarthRenew OMF and fertilizer rates on marketable yield of Utah-5270 celery grown under drip irrigation.