

# H<sub>2</sub>H IMPACT ON SOIL ORGANIC MATTER IN AN ALMOND ORCHARD IN KERN COUNTY



*EFFECT OF APPLICATION OF H<sub>2</sub>H  
2013 SUMMER - 2014 EARLY SPRING SEASON  
1,230 ACRE APPLICATION  
16 SAMPLES*

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# Almond Orchard H2H EFFECT ON % SOIL ORGANIC MATTER

## Summary Results

Average Soil Organic Matter:

from **0.814%** to **1.173%**

Increase: **44%**

T-Test: 0.00013

Confidence interval: **99.99%**

## Application Rate

50 gal. / acre for the entire  
season



TREATED ACRES	SAMPLE ID & BLOCK	January 2014 % Organic Matter	May 2013 % Organic Matter
80	49-1-1	1.37	0.66
80	49-1-2	1.27	0.80
75	49-2-1	1.26	0.92
75	49-2-2	1.22	0.92
80	49-3-1	1.43	0.95
80	49-3-2	1.76	0.95
75	49-4-1	0.90	0.86
75	49-4-2	0.87	0.93
75	49-5-1	0.74	1.00
75	49-5-2	0.88	0.37
75	49-6-1	1.80	0.78
75	49-6-2	0.98	0.75
80	49-7-1	1.02	0.80
80	49-7-2	1.10	0.97
75	49-8-1	1.06	0.59
75	49-8-2	1.10	0.78
1,230	ADEQUATE	2.0 3.0	2.0 3.0

**Almond Orchard  
H2H EFFECT  
ON  
% SOIL  
ORGANIC MATTER**

**Summary Results**

Average Soil Organic Matter:

from **0.814%** to **1.956%**

Increase: **140%**

T-Test:  $1.237E^{-14}$

Confidence interval: **99.9999...%**

**Application Rate**

50 gal. / acre for the season

As of 2/25/14

SAMPLE ID & BLOCK	AFTER H2H	Before H2H
	02/25/2014 % Organic Matter	05/17/2013 % Organic Matter
49-1-1	2.02	0.66
49-1-2	1.75	0.80
49-2-1	1.85	0.92
49-2-2	1.73	0.92
49-3-1	1.76	0.95
49-3-2	1.79	0.95
49-4-1	1.70	0.86
49-4-2	1.74	0.93
49-5-1	2.51	1.00
49-5-2	1.72	0.37
49-6-1	1.90	0.78
49-6-2	1.98	0.75
49-7-1	2.72	0.80
49-7-2	2.10	0.97
49-8-1	2.12	0.59
49-8-2	1.90	0.78
ADEQUATE	2.0	2.0
	3.0	3.0



## Almond Orchard SAMPLING SITES-LOCATIONS/BLOCK

