

BIO SEED & VITAZYME ON CABBAGE YIELD, SOMIS, CA, 2018-2019

A small (10 x 25 ft) plot, six-replication trial, in Supreme Vantage cabbage, conducted by researcher David Holden (Holden Research and Consulting), at Deardorff Family Farms, Somis, Ventura County, California, from October 11, 2018 to January 4, 2019, on a 2.8% organic matter, pH 7.5, sandy loam, fertilized evenly with pre-plant 400 lb./ac. 6-24-24, followed by AN 20 / CAN 17 applications, to a total 150 lb./ac. nitrogen, concluded:

The program of Bio Seed 50 g/ac. as soil drench at planting, and Vitazyme 16 fl. oz. (1 pt.) /ac. in pre-plant drench, followed by foliar sprays of the same rate at 18 and 47 days after planting (DAP), yielded significantly higher than the untreated control by 10.5% (ninety-two 50-lb. cartons or 2.30 tons per acre), which resulted in additional net profit, above the untreated control, of US\$ 2208 per acre, and a cost-benefit ratio of 50 to 1.

| Programs | fr. wt. market. heads (g/head) | # 50 lb. boxes /ac. | Incr. # boxes /ac. | US tons/ ac. | Incr. US tons/ ac. | % yield Incr. | Added Income | Add. costs | Net profit |
|---|--------------------------------|---------------------|--------------------|--------------|--------------------|---------------|--------------|------------|-------------|
| | | | | | | | US \$/ac. | | |
| Untreated Control (Grower standard) | 784.2 b | 878 b | - | 21.95 | - | - | - | - | - |
| Bio Seed soil drench & Vitazyme pre-plant drench, 18 DAP & 47 DAP | 866.3 a | 970 a | 92 | 24.25 | 2.30 | 10.5 | 2252 | 44.38 | 2208 |
| Standard error | 24.7 | 27.7 | | | | | | | |

Means followed by a common letter do not differ significantly (LSD 0.10).

Bio Seed 50 g/ac. at \$ 12.50/ac.; Vitazyme 16 fl. oz. (1 pt.) /ac. at \$ 10.625/ac.

