

Plant -X

UNIQUE. ORGANIC. EFFECTIVE.
Plant Extract Products for Potato Programs



Bio-Gro, Inc. has been developing a plant extract product line. Through a fermentation processes, bio-compounds are extracted from plant leaves and roots to create blends that enhance plant growth and rooting.

Bio-Gro has used this technology to develop two products made especially for potato production:

Bio-SB – An extract from specific plants that grow in arid conditions of WA, OR, CA and ID. This extract is allowed to brew in a proprietary growth media. Depending on the desired effect, auxin or cytokine precursors can be added.

Bio-N – An extract from whole plants which exhibit the ability to thrive in high disease pressure environments. Plants are extracted and stabilized via a microbial process. Bio-N is used in both conventional and organic farming as an in-furrow treatment.

Test Data Shows Plant-X Products Increase Yield



↑ Control

Bio-N ↓



Control ↑

↑ Bio-SB at Planting

Call Bio-Gro, Inc. Today! (800) 738-7457

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Test Results

At 2nd hilling 5 gallons per acre of the following materials were sprayed on the soil and incorporated onto the hill. At harvest 4 X 10' plots were dug, 2 sets on each side of the field and graded out as follows:

Plot #1 – LaSoda Reds – Mt Vernon, WA

Trial	Yield Tons/Ac	Bakers 50 # Box	A 50 # Box	B 50 # Box	C 50 # Box
Control	12.6	37	411	118	37
Bio-SB	13.8	22	464	136	45
Bio-N	12.6	25	429	154	51

Plot #2 – Chiefton Reds – Mt Vernon, WA

Trial	Yield Tons/Ac	Bakers 50 # Box	A 50 # Box	B 50 # Box	C 50 # Box
Control	24.2	182	642	111	34
Bio-SB	26.3	154	707	148	43
Bio-N	23.3	110	621	146	56

Bio-SB and Bio-N were evaluated with and without an in-row application of Ridomil Gold EC + Quadrus. Interestingly, in total yield both the Bio-only plots were slightly higher than the Bio+Fungicide plots as illustrated below. Yields are calculated in tons/acre.

Control	20.4	Bio-SB Only	21.4	Bio-N Only	21.2
		SB + Rido	20.7	N + Rido	20.6

Test Data – Quincy, WA

Russet Burbanks. At planting Bio-SB and Bio-N were applied at 2 ½ gallons per acre with and without 6.6 oz/acre of Ridomil Gold EC.

	< 2 oz	4-8 oz	#1 > 8 oz	#2 All	Culls	Total	% #1's
Control	3.13	11.09	17.85	0.87	1.20	34.07	85%
Bio-SB Only	4.42	15.64	15.38	0.09	2.38	37.91	82%
SB + Rido	3.53	12.64	16.92	0.50	1.90	35.49	83%
Bio-N Only	3.45	14.19	19.77	0.10	1.52	39.03	87%
N + Rido	4.17	13.64	16.35	0.18	1.54	35.89	84%

Testing on Burbank Variety in Quincy, Washington

Application: Two test strips. The 1st "Bio-SB" treated with 2 gallons/acre Bio-SB in furrow, at planting. The 2nd "Bio-N", treated with 2 gallons per acre in furrow at planting.

Data: The following table illustrates the yield calculated in tons/acre based on 2 X 30 foot digs in each area.

Control	34.7	Bio-SB	39.6	Increase	+ 4.9
		Bio-N	40.5		