

Corn. (*Zea mays*), Applications of Advance LCO In-Furrow Yield Increase J. Allen, Coastal AgroBusiness, Greenville, NC

In-Furrow Application of ADVANCE LCO in Corn, 2013

In 2013, three studies were conducted to evaluate the effects of an in-furrow application of ADVANCE LCO in corn. The trials were located in Washington, Beaufort and Robeson Counties, North Carolina. A 19-19-0 starter fertilizer was applied in a 2 X 2 configuration at planting with and without ADVANCE LCO. ADVANCE LCO was applied at 8 or 9 oz/a. At one location Bio-Forge® was included with both treatments. Corn planting for all test locations was the week of April 10-18th, 2013. Corn varieties were Pioneer 35H46, DK 6696 and Pioneer 1456HR with planting population ranging from 31,500 to 35,000 plants/acre on 38 inch row spacing. Soil types in these trials included Portsmouth, Belhaven, Lynchburg and Norfolk.

Advance LCO is a plant growth enhancer containing a blend of highly-refined nutrients and natural carboxylic acids. Advance contains a clean 6-24-6 starter fertilizer with a micronutrient package. This ready to use product enhances solubilization and uptake of plant nutrients. Advance is used in a variety of soil applications to aid early season plant development.

The addition of Advance LCO with a starter fertilizer improves availability and helps with nutrient uptake by corn. In these studies, yields improved by an average of 9.3 bu/a.

Treatment	Yield @ 15% Moisture	Yield Increase	Location
At Planting	Bu/A		
Starter 2X2 19-19-0 Starter + Bio-Forge®	135.2		Washington Co.
Starter 2X2 19-19-0 Starter + Bio-Forge® +	150.4	15.2	Washington Co.
Advance LCO at 9 oz/A			
Starter Fertilizer 2X2	156.5		Robeson Co
Starter Fertilizer 2X2 + Advance LCO @ 8/9 oz/acre	160.2	3.7	Robeson Co
10 gal 19-19-0 starter 2X2	200		Beaufort Co
10 gal 19-19-0 starter 2X2 with Advance LCO @ 9 oz/a	209	9	Beaufort Co

Advance LCO also improved early season root development. See photos below.





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