



CHART #1: Value of Feast® N-P-K Starter Fertilizers based on conventional fertilizer products NH₃ 82-0-0, DAP 18-46-0, and KCL 0-0-60 (fall 2009 fertilizer prices)

<ul style="list-style-type: none"> ● 9-18-9 as seed-furrow starter <ul style="list-style-type: none"> – One gallon* replaces 2-8-4 to 3-10-5 NPK broadcast equivalent (depending on soil test) – Market N at \$0.225 per lb. (82-0-0) – Market P₂O₅ at \$0.325 per lb. (18-46-0) – Market K₂O at \$0.600 per lb. (0-0-60) ➤ Value = \$5.45 to \$6.95 per gallon ➤ Average value = \$6.20 per gallon
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<ul style="list-style-type: none"> ● 3-18-18 as seed-furrow starter <ul style="list-style-type: none"> – One gallon* replaces 0.7-8-8 to 1-10-10 NPK broadcast equivalent (depending on soil test) – Market N at \$0.225 per lb. (82-0-0) – Market P₂O₅ at \$0.325 per lb. (18-46-0) – Market K₂O at \$0.600 per lb. (0-0-60) ➤ Value = \$7.55 to \$9.45 per gallon ➤ Average value = \$8.50 per gallon
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*Conklin agronomics, based on soil test levels obtained through Midwest Laboratories, Inc., recommends a range of between 2 GPA (minimum) and 5 GPA (maximum) for its NPK seed-furrow-placed starter fertilizers. Therefore, although there is a maximum replacement of broadcast equivalent NPK that can be obtained at these 2 to 5 GPA rates, it is a significant replacement level of the three primary nutrients.
GPA = gallons per acre



CHART #2: Value of Feast® N-P-K Starter Fertilizers based on conventional fertilizer products UAN 28-0-0, APP 10-34-0, and KCL 0-0-60 (fall 2009 fertilizer prices)

<ul style="list-style-type: none">● 9-18-9 as seed-furrow starter<ul style="list-style-type: none">– One gallon* replaces 2-8-4 to 3-10-5 NPK broadcast equivalent (depending on soil test)– Market N at \$0.350 per lb. (28-0-0)– Market P₂O₅ at \$0.525 per lb. (10-34-0)– Market K₂O at \$0.600 per lb. (0-0-60) <p>➤ Value = \$7.30 to \$9.30 per gallon</p> <p>➤ Average value = \$8.30 per gallon</p>

<ul style="list-style-type: none">● 3-18-18 as seed-furrow starter<ul style="list-style-type: none">– One gallon* replaces 0.7-8-8 to 1-10-10 NPK broadcast equivalent (depending on soil test)– Market N at \$0.350 per lb. (28-0-0)– Market P₂O₅ at \$0.525 per lb. (10-34-0)– Market K₂O at \$0.600 per lb. (0-0-60) <p>➤ Value = \$9.20 to \$11.60 per gallon</p> <p>➤ Average value = \$10.40 per gallon</p>

*Conklin agronomics, based on soil test levels obtained through Midwest Laboratories, Inc., recommends a range of between 2 GPA (minimum) and 5 GPA (maximum) for its NPK seed-furrow-placed starter fertilizers. Therefore, although there is a maximum replacement of broadcast equivalent NPK that can be obtained at these 2 to 5 GPA rates, it is a significant replacement level of the three primary nutrients.

GPA = gallons per acre

Conventional Dry and Liquid Fertilizer Pricing – September 2009

Product	Lbs. N/ton	Lbs. P ₂ O ₅ /ton	Lbs. K ₂ O/ton	Cost N/lb.	Cost P ₂ O ₅ /lb.	Cost K ₂ O/lb.	Cost/Ton
APP 10-34-0	200	680	-	0.225	0.525	-	\$ 402.00
4-10-10	80	200	200	0.225	0.525	0.600	\$ 243.00
6-18-6	120	360	120	0.225	0.525	0.600	\$ 288.00
7-21-7	140	420	140	0.225	0.525	0.600	\$ 336.00
KCL 0-0-60	-	-	1,200	-	-	0.600	\$ 720.00
DAP 18-46-0	360	920	-	0.225	0.325	-	\$ 380.00
MAP 11-52-0	220	1,040	-	0.225	0.325	-	\$ 387.50
TSP 0-45-0	-	900	-	-	0.325	-	\$ 292.50
NH ₃ 82-0-0	1,640	-	-	\$0.225	-	-	\$ 369.00
UAN 28-0-0	560	-	-	\$0.350	-	-	\$ 196.00

Note: prices by ton may vary slightly by region but represent averages across the U.S. market.

AgroVantage® System versus Conventional

Example #1

Soil Test Requirement 200 N – 50 P₂O₅ – 50 K₂O

Conventional ¹			AgroVantage ²		
Nutrient Material	Rate/Acre and Cost	Sub-Total	Nutrient Material	Rate/Acre and Cost	Sub-Total
82-0-0	185 lbs. actual N @ \$0.225	\$ 41.65	28-0-0	155 lbs. actual N @ \$0.350	\$ 54.25
10-34-0	150 lbs.	\$ 30.15	Guardian-DL	1 quart @ \$8.25	\$ 8.25
0-0-60	100 lbs.	\$ 36.00	Feast 3-18-18	5 gallons @ \$6.25	\$ 31.25
Sulfur	None	?	Feast 0-0-25-17S	2 quarts @ \$1.50	\$ 3.00
Zinc	None	?	Feast 9.0% Zinc	1 pint @ \$3.40	\$ 3.40
TOTAL		\$ 107.80	TOTAL		\$ 100.15

¹ 82-0-0 at \$369.00 per ton

10-34-0 at \$402.00 per ton

0-0-60 at \$720.00 per ton

² 28-0-0 at \$196.00 per ton

AgroVantage® System versus Conventional

Example #2

Soil Test Requirement 150 N – 50 P₂O₅ – 50 K₂O

Conventional			AgroVantage		
Nutrient Material	Rate/Acre and Cost	Sub-Total	Nutrient Material	Rate/Acre and Cost	Sub-Total
28-0-0	130 lbs. actual N @ \$0.350	\$ 45.50	28-0-0	125 lbs. actual N @ \$0.350	\$ 43.75
18-46-0	110 lbs.	\$ 20.90	Guardian-DL	1 quart @ \$8.25	\$ 8.25
0-0-60	100 lbs.	\$ 36.00	Feast 3-18-18	5 gallons @ \$6.25	\$ 31.25
Sulfur	None	?	Feast 0-0-25-17S	2 quarts @ \$1.50	\$ 3.00
Zinc	None	?	Feast 9.0% Zinc	1 pint @ \$3.40	\$ 3.40
TOTAL		\$ 102.40	TOTAL		\$ 89.65

28-0-0 at \$196.00 per ton
 18-46-0 at \$380.00 per ton
 0-0-60 at \$720.00 per ton