

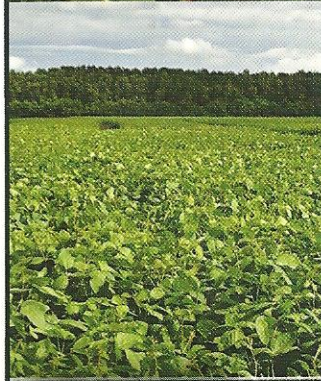


ALPINE™

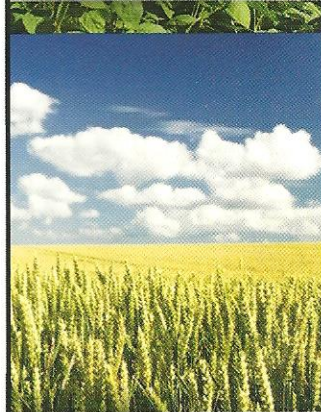
**4-18-9**




CORN



SOYBEANS



WHEAT

 **Harvey's  
Agricultural  
Solutions**

## WHAT IS 4-18-9?



ALPINE™

ALPINE 4-18-9 high quality liquid starter fertilizer is specially formulated to assist farmers in getting their corn, soybeans, and wheat crops off to a good start, which allows them to maximize their profits through increased yields and better plant quality.

Our 4-18-9 liquid fertilizer is 70% orthophosphate and 30% polyphosphate, unlike many other starter fertilizers that are up to 70% polyphosphate. Why is an orthophosphate fertilizer more efficient than a polyphosphate fertilizer?



Orthophosphate form



Polyphosphate form

Polyphosphate fertilizers chemical structure is in the form of a chain. This form cannot enter the cell wall of a plant because it's too large. An orthophosphate fertilizer in the form of a single chain link and can readily enter the cell walls and translocate through the plant. In order for the polyphosphate to

be available to the plant, it must go through a chemical process to break down into an individual link.

During cold, wet growing conditions, the break down of polyphosphate form can be further delayed, which can directly affect yield and plant quality.

In addition, our 4-18-9 starter is a true solution, chloride-free, low-salt index product that will not clog or corrode application equipment.

## WHY 4-18-9 AS YOUR FIRST CHOICE?

### STARTER vs. NO STARTER

4-18-9 is an economical fertilizer solution that:

- Increases yield potential
- Improves overall plant quality.

With government agencies placing stricter guidelines on the use of phosphorus, more farmers are looking for more efficient options. With ALPINE'S 4-18-9 high quality liquid fertilizer, you can optimize your fertilizer investment by placing the starter right on the seed at planting time. Better yet, our products are seed safe due to

our low salt index. Therefore, you don't have to worry about salt burn.

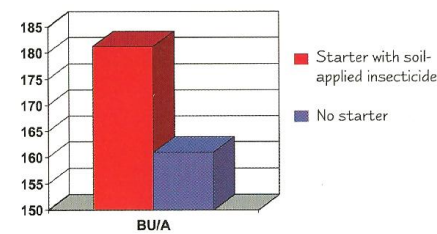


## WHAT ARE THE BENEFITS?

By placing ALPINE 4-18-9 liquid fertilizer on the seed, your crop will get off to a quick start and it provides the vital nutrients that a crop needs during critical growing stages even in stressful weather conditions. Getting your crop off to a good start allows you to increase your yields and plant quality.

Another benefit of seed-placed fertilizer is smaller application rates are needed, which means less storage and fewer delays at planting time. By placing our 4-18-9 in the row, you can save time and money.

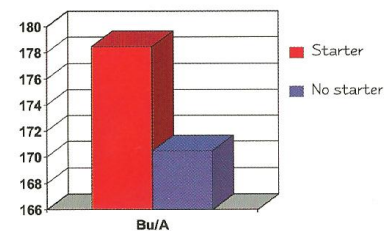
## RESEARCH RESULTS:



The above ALPINE research plot was performed in Elkhart, Illinois. The ALPINE starter and soil-applied insecticide plot outyielded the no starter plot by 20.3 bu/A.

### Application Rates:

- 5.5 gals/A NAS starter
- 1 qt/A EDTA 9% Zinc
- 3 oz/A Regent® Insecticide



The above research was conducted at Spaetti Farms in Hatfield, IN. The ALPINE starter plot outyielded the no starter plot by 8.0 bu/A.





# 4-18-9 BENEFITS

Affordable

Higher yields

Gets crop off to a good start

Lowers grain moisture at harvest

Longer/fuller growing seasons

Better plant quality and absorption

Non-corrosive on equipment

Compatible with Capture®  
Liquid Insecticides



the starter fertilizer company™

ALPINE was established in 1973 by founder Doug Wagner. He started producing liquid fertilizer in a shed in his backyard. By 1975 product was being shipped to Michigan and in 1976 shipments began to Ohio. In succeeding years, large volumes of product were shipped to the American market. In order for ALPINE to meet the requirements in the American market, new facilities were built in Corydon, Indiana and New Hamburg, Ontario, along with a new computerized mixing system.

Through the years, an extensive research program has been carried out to ensure that the best products and programs are made available to our customers. Over time, ALPINE has established itself as the leader in the liquid fertilizer business in both Ontario and Quebec.

In 1998, ALPINE merged with its biggest U.S. competitor - Na-Churs Plant Food Company. NACHURS ALPINE SOLUTIONS is now clearly the largest manufacturer of "hot mix liquid fertilizers" in North America.

NACHURS ALPINE SOLUTIONS has manufacturing plants in New Hamburg, Ontario; Marion, Ohio; Corydon, Indiana and Red Oak, Iowa. Western Canada is now one of ALPINE's target growth markets. We feel our products and programs are very applicable to the Prairie provinces.



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