



Laboratories, Inc.

Duane Schlieman, Agronomy Services

New Ulm, MN Nevada, IA Bismarck, ND

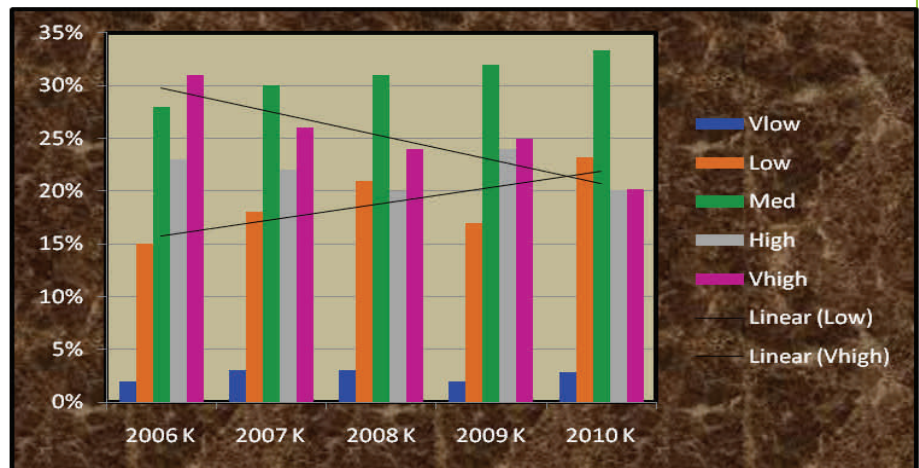
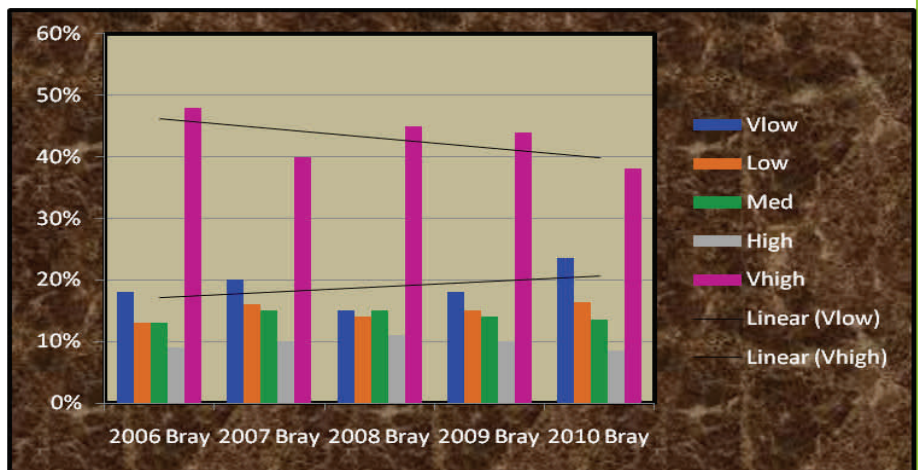
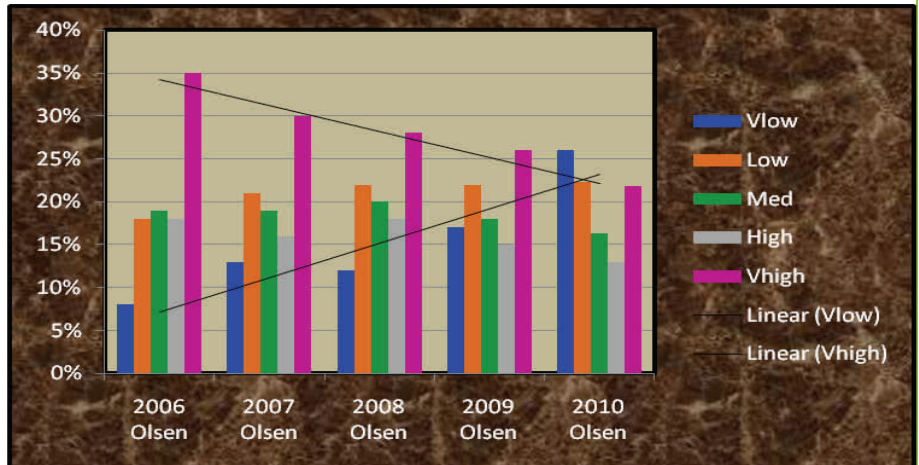
MVTL Newsletter  
December 2010

# 5-Year Data Trends

Southern Minnesota

Throughout the summer and fall soil testing season, many of you continue to experience lower levels of available soil nutrients. As a result, I've heard many consultants and agronomists voice a common conclusion ... "*We need to adapt*". While this is in reference to fertility management as a whole, the willingness and commitment still come from the producer. We've experienced the impacts of technology in a variety of ways and improved our knowledge to push production higher, but the one input that has been somewhat under-estimated is *crop nutrient removal*. Declining nutrient levels available to the plant are not just a local issue, but a widespread concern throughout the region ... the trend is real, yet it is one we can address with a "*willingness to adapt*".

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**Web Solutions**

## University of Illinois, 2008: Seed Technology and Nutrient Requirements

Current management systems may need some adjustment, and that may start with addressing the additional plant nutrient needed to optimize yields offered up by new seed technology ... primarily, corn rootworm resistant hybrids ( Table 1) . *Preliminary data* suggests the root system expressed with CRW-resistant hybrids are proving superior in terms of nutrient use efficiency vs. traditional hybrids, and ultimately, translating to higher yields. Increased P & Zn uptake are most noted.

### Table 1. Increased Yield of Rootworm-Resistant Hybrids Removes More Soil Nutrients

CRW-RESISTANT vs. NON-RESISTANT DIFFERENCE %

Yield increase 14%: N-removal +14%, P-removal +24%, K-removal +19%, S-removal +17%, Zn-removal +27%

Champaign, IL 2008; average of two hybrid pairs

## Web Applications - Agriculture

We are currently testing the MVTL web applications for our agricultural division. We intend to make this a very positive experience for our customers and their ability to manage data in terms of purpose, flow, and simplicity. The goal is to provide our customers with an extremely efficient means of submitting information, managing data, and complete file delivery system for reporting flexibility.

## 2011 MVTL Fertility Seminar

Currently, there are some conflicts with dates in respect to potential guest speakers. Once this is squared away, we will send out the brochure with the necessary details.

## New Facility - New Ulm, MN

MVTL is exploring options to build or acquire an existing facility that best suits our long-term needs.

**Thanks for your support ... Happy Holidays!!**