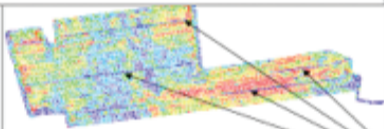


## FIGURE 2

A consistent data cleaning process is essential to create reliable multi-field and multi-year yield maps

### Knowing yield is key

Mean raw wet yield: 22.05 ton/acre.  
This became 16.75 tons/acre with data  
points > 40 tons/acre removed.



#### Common errors:

- Rapid velocity changes
- Travel time/crop flow delay between chopping & location of sensor readings
- Start pass delay, end pass delay as flow ramps up/down
- Unknown chopper pass width
- Overlapped data near end of rows
- Stops in field: crop throughput near 0 speed => erroneously high yields

Long blue chopper transects  
unlike neighbors = passes with  
unknown partial chopper widths  
=> erroneous low yields

Original data from yield monitor (no filters, only set maximum yield at 40 wet tons/acre to eliminate extreme yield errors) – raw data contained points with up to 3,393 tons/acre!