Village of Buffalo Grove - Winter Maintenance







What drove our desire to change?

Changes to winter maintenance programs are driven by 3 key factors...

- Monetary Savings
- Performance Improvement
- Eco Friendly Initiative

The excellent changes yield multiple returns.





Changes to meet your goals, and the expectations of your agency.

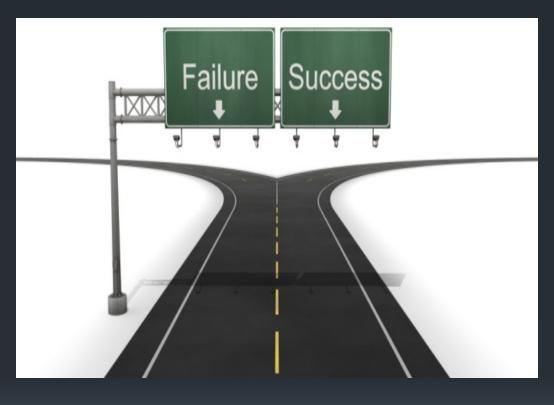
Change is not "rubber stamp" for success.

Honest self evaluation and goal setting is required.

It's not about what's "BEST"... it's about what's "BEST FOR US".

Establish the priorities that are driving your agency changes

- Economy
- Performance
- Environment





Knowing where you are is the first stop towards getting to where you want to be.

4

The first step towards growing or advancing our programs....is to know where we stand today.

Are we tracking the data...and do we know what it says?

- Program Costs
 - Staffing
 - Equipment
 - Materials
 - Total program costs

Do we know...

- What are the needs?
- What resources do we have?
- What are our capabilities?
- Do we have the support of the decision makers?





Calculating Progress

In Buffalo Grove we've chosen to track our costs down to the "cost per inch of snow; per mile" Total Cost / Total Inches / Total Miles

Following program changes, using this formula our costs have declined by \$1.55 per inch of snow, per plowing mile...while improving service levels to our agency.



5



Implemented changes to our program following pilot testing

Pilot Programs that resulted in implemented change...

- Carbide cutting edges
- Pre-wet systems
 - Location of application
 - Materials
 - High volume (flow) capacity
- Salt Brine production
- ♦ Anti-icing
- Purpose built equipment replacements/purchases
- ♦ AVL system
- Road weather data
- GIS Route optimization
- GPS "turn by turn" directions
- Procedural changes
- Training





Results of changes to our program

- Improved efficiency
- Reduced costs
- Greater accountability
- Route vs. Route consistency
- Decreased cycle time
- Reduction in routes
- Established credibility



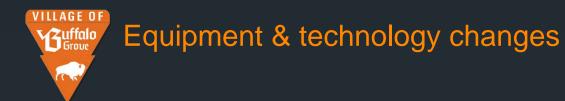


Wing Trucks



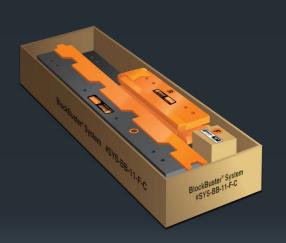
Salt Brine Maker





Carbide Cutting Edges

Anti-Icing Equipment



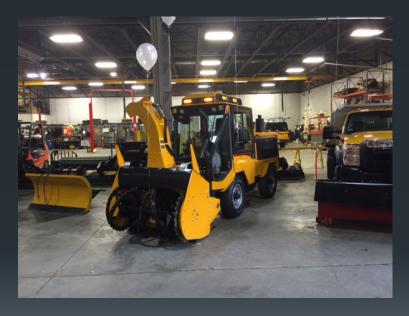


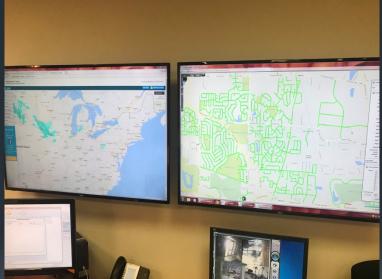


Equipment & technology changes

MT Trackless – Sidewalk Clearing

Weather & Road Data Info AVL tracking systems





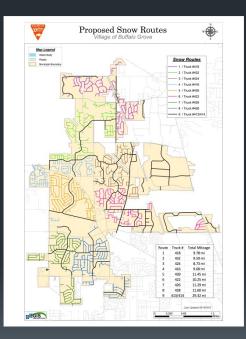


Equipment & technology changes

Calibrated, speed sensitive control systems



GIS based route maps with turn by turn GPS







Questions?

Bryan Beitzel – Maintenance Superintendent Village of Buffalo Grove Public Works Department (847) 459-2545 bbeitzel@vbg.org