

Michigan Winter Operations Conference 2013



Equipment Calibration



Bryan Pickworth

Road Maintenance Supervisor City of Farmington Hills, MI Dept. of Public Works

- 22 years as an employee of the City beginning as a Laborer in 1991, moving up through the ranks to Equipment Operator III/Crew Leader in 2001, and then promoted to Road Maintenance Supervisor in 2004.
- 2009 graduate of Michigan APWA's Michigan Public Service Institute

Current Responsibility's:

- Snow and Ice control , Liquids production, Stormwater drainage maintenance, Forestry operations, Landscape & ROW mowing maintenance, Irrigation, Gravel road and shoulder maintenance, Street sweeping and various other in-house & contracted services.



Winter Maintenance/Best Practices

- Before the beginning of each snow fighting season, salt trucks must be calibrated to ensure salt distribution falls within department guidelines. The calibration should be rechecked if there are any mechanical adjustments or changes throughout the remainder of the snow fighting season. A must for safety of the public, consistent goals, target application rates and environmental sustainability .



TRAINING-EQUIPMENT READINESS



- Pre-Calibration meeting: refresher for procedures and “game plan”, **including operator input.**
- **Training** of personnel (PowerPoints, Videos/ In-House, Webinars, etc.)
- Involve your vendors (site visit)
- Calibration of **liquid** and granular equipment. (Utilizing “catch” tests and scales, grid)



TOOLS/Equipment Needed

- Well Maintained Truck/Slip-In/Tailgate Auger, Vee-Box, Live Bottom etc ...
- Fluids in normal operating range & **TEMP**.
- Scale(human,hunting etc.) Bucket
- Tarp,Shovel,Wood, clipboard,forms,watch, calculator(Smartphone)
- Salt,Sand(materials)
- Manual of specific equipment



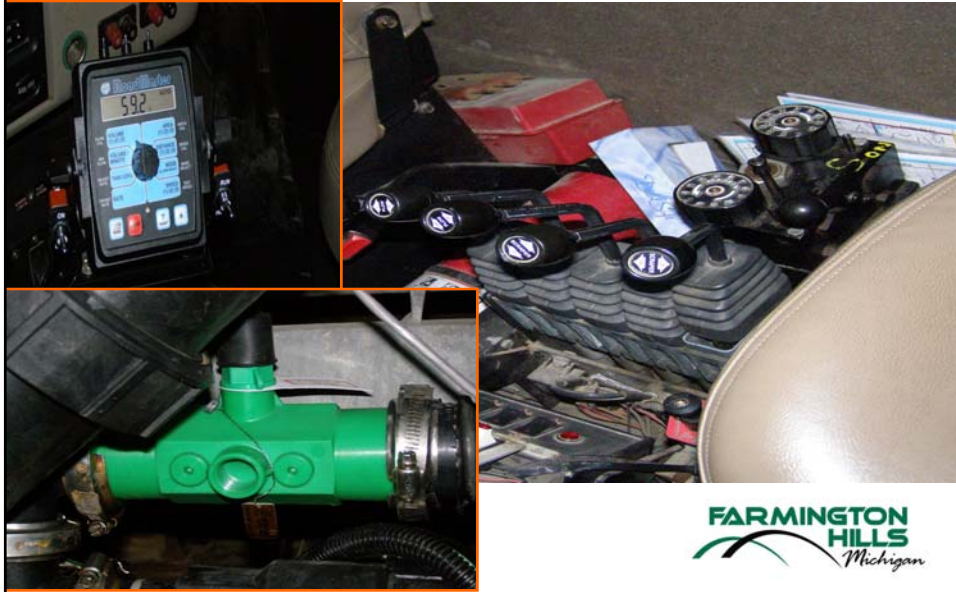
Joint Purchase with Wixom, MI



Save time and contain materials more efficiently



TYPES OF-COMPONENTS Manual or Auto



Rochester Hills, MI Grid in there parking lot



Utilize a piece of property for a grid
Consider safe speeds in testing



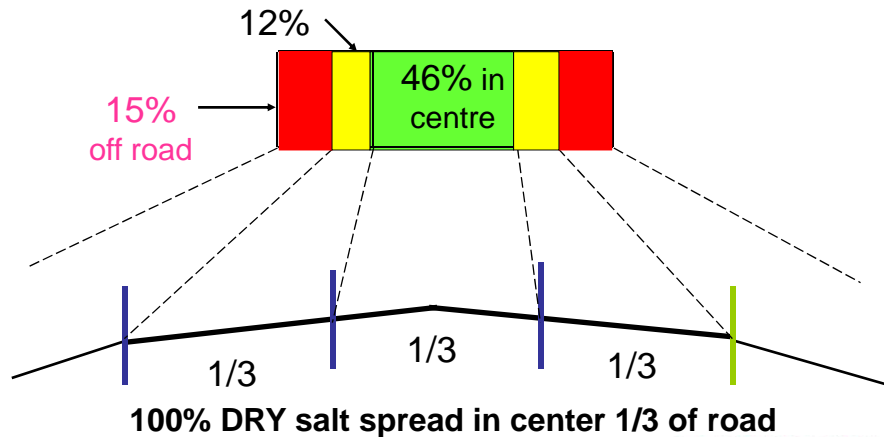
FARMINGTON
HILLS
Michigan

Operators run and watch the tests
Calibrate yourselves...



FARMINGTON
HILLS
Michigan

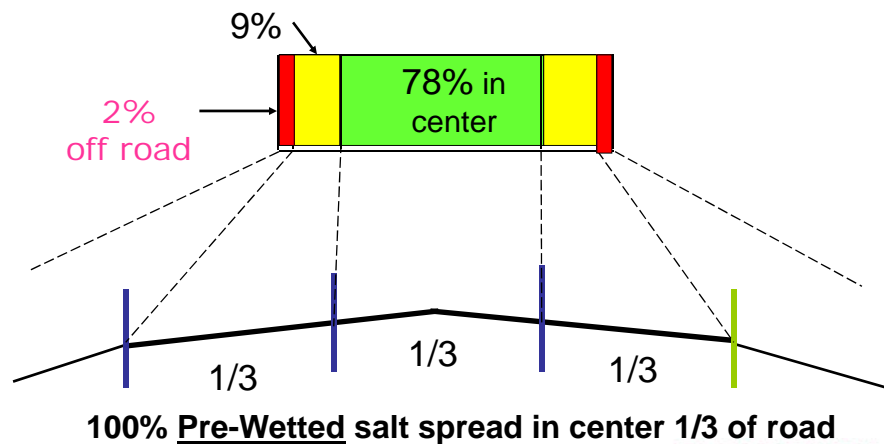
TYPICAL SCATTER PATTERN OF DRY ROAD SALT



Paul Johnson -Guelph, Ontario



TYPICAL SCATTER OF PRE-WET ROAD SALT



Paul Johnson -Guelph, Ontario



Manual vs Auto Calibrate for consistent application



1-13-12



RESOURCES-NETWORKING- TEAMWORK

- Local LTAP, APWA,CRAM, MDOT, SEMCOG, Winter Maint Groups throughout the state
- Network with your “neighbors”
- Attend or view conferences, seminars, webinars, local meetings
- YOU-TUBE
- <http://www.clearroads.org/>
- <http://www.saltinstitute.org/road/snowfighting/>
- <http://www.apwa.net/>
- <http://www.semco.org/>
- MI DOT, IOWA DOT, OHIO DOT, MINN DOT, COLORADO DOT.....



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