



Contents

1 Introduction

Getting Your Vehicle
Ready for Winter

Winter Driving Tips

Winter Tools & Terms

5 Winter by the Numbers

Winter Storm Management

Average Plow Times

PennDOT by the Numbers - District 1

PennDOT by the Numbers - District 2

PennDOT by the Numbers - District 3

PennDOT by the Numbers- District 4

PennDOT by the Numbers- District 5

PennDOT by the Numbers - District 6

PennDOT by the Numbers - District 8

PennDOT by the Numbers- District 9

PennDOT by the Numbers- District 10

PennDOT by the Numbers- District 11

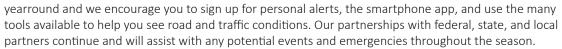
PennDOT by the Numbers- District 12

Dear Customers:

Whether it's the summer travel season or inclement weather is forecast, PennDOT's team is committed to keeping people and our economy moving safely.

As we head into the winter season, know that our team has been preparing for this since the last winter season ended. Our fifth largest state maintained roadway mileage translates to over 96,000 snow lane miles across the state. We have more than 2,186 department plow trucks at the ready and we employ 4,700 equipment operators to brave the worst of winter to keep our roads passable. They are supplemented by nearly 380 contracted plow trucks and supported by 496 mechanics, managing more than 2,300 snow routes with an average length of 40 snow lane miles.

Technology continues helping us deliver transparent and efficient services, and we encourage you to use the many tools available to you in the season ahead. Our 511PA service offers information



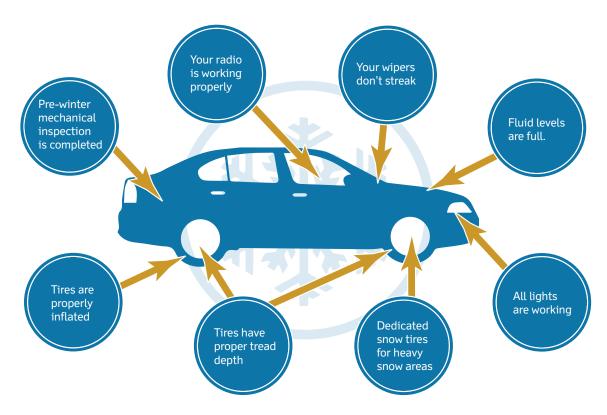
This Winter Services Guide outlines our operations and resources in each region across the state. Please help us by paying attention to winter weather forecasts before traveling, and if you must travel during storms, be prepared with needed supplies in your vehicle and slow down!

Sincerely,

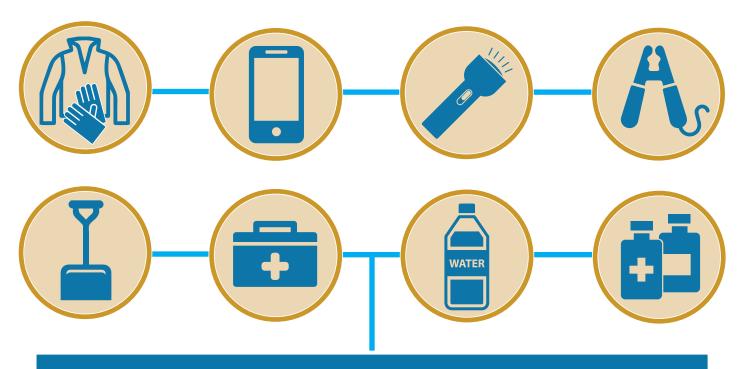
Michael Carroll, PennDOT Secretary



Getting Your Vehicle Ready for Winter - Motorists should ensure that...



Emergency Travel Kit - Don't Leave Home Without It...



Also remember to include warm clothing and gloves, blanket, ice scraper, sand, non-perishable food and anything else you may need to accommodate family traveling with you (special medication, baby supplies, pet food, etc.).

PennDOT Offers These Winter Driving Tips:

Before You Go

- Prepare a winter emergency travel kit.
- Listen to weather and travel advisories.
- Visit www.511PA.com or call 511.
- Pack a cell phone and be sure it's charged.
- Remove snow and ice from your hood, roof and windows.
- Tell someone where you are going and when you expect to arrive.
- Do not drink and drive and always wear your seat belt.

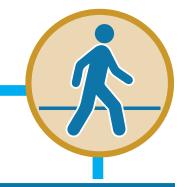


While You're Traveling

- Turn on your headlights when your wipers are on- it's the law.
- Watch for wet-looking roads, they could actually be frozen- "black ice."
- Use low beams in cases of heavy or blowing snow.
- Do not use cruise control on snow-covered roads.
- Slow down and increase following distance and avoid sudden stops and starts.
- Use extra caution on bridges and ramps where ice can often form without warning.
- Do not pass or get between trucks plowing in a plow line.
- If you do become stranded, it's recommended that you stay with your vehicle until help arrives. Run the engine every hour or so, but make sure the tailpipe is clear and keep the downwind window cracked open.
- Do not park or abandon your vehicle on snow emergency routes.

Take Special Precautions

Use caution in areas where pedestrians may be present. Anticipate the presence of pedestrians in residential areas. Be alert for people entering the road from behind snow piles. Allow pedestrians extra time to cross icy or snow-covered streets.



Winter Safety Tips for Pedestrians

- Wear brightly colored clothing.
- Stay on sidewalks whenever possible but if you must walk on the road, travel as close to the road shoulder as possible and always walk facing oncoming traffic.
- Allow drivers ample time to stop in icy conditions.
- Before crossing a street, look left, right and then left again to check for traffic.
- Always cross a street at an intersection and avoid entering the road from between parked cars or behind snow piles.

PennDOT Winter Tools and Terms

Anti-icing- The application of salt brine to the road surface prior to winter storms. The solution lowers the freezing point of water and slows or prevents ice from forming a bond with the pavement during the early stages of a storm.

Anti-skid- Crushed limestone is used as an anti-skid material in addition to salt. The percentage of anti-skid varies by road type.

De-icing- The application of salt or salt brine to the roadway after snow or ice accumulation.

Ground speed-activated salt spreader- PennDOT trucks are equipped with an electronic material application system that automatically dispenses the desired amount of material. These systems ensure that the material is applied at a constant rate whether the truck is going 15 mph or 45 mph.

Infrared temperature sensors – Sensors are mounted on vehicles in the PennDOT fleet to provide the operator with the exact pavement temperature. This helps the operator determine if there is a potential for the roadway to freeze and when to start the treatment cycle.

Pre-wetted salt- Road salt is sprayed with salt brine to enhance the salt's melting capability in cold weather. Pre-wetting lowers the melting point of salt to make it more effective in lower temperatures.

Salt Brine- Salt brine is essentially salt water produced at 73 PennDOT facilities around the state. This material is used in anti-icing operations and to pre-wet salt.

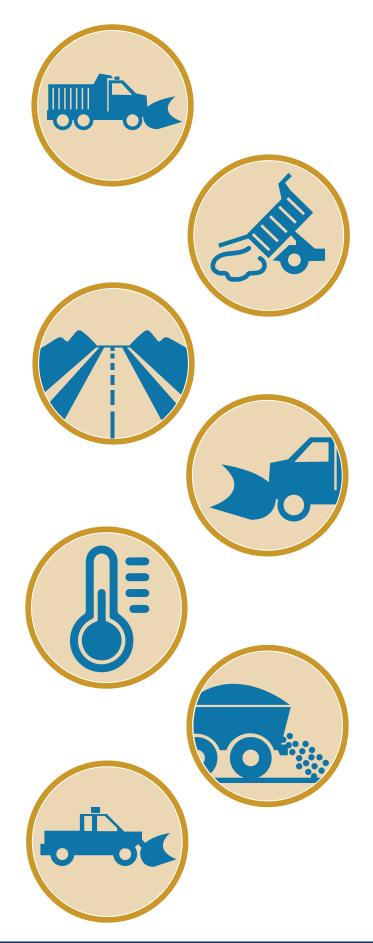
Salt- Salt remains the department's primary weapon for fighting winter storms. PennDOT, which has 458 stockpiles around the state, has used an average of nearly 801,453 tons of salt over the last five winters.

Single, tandem and tri-axle trucks- Over the past several years, PennDOT has been replacing its single-axle trucks, which are capable of hauling 8 tons of material, with larger and more powerful tandem-axle trucks, which are capable of hauling 16 tons. Tri-axle trucks can haul up to 22 tons.

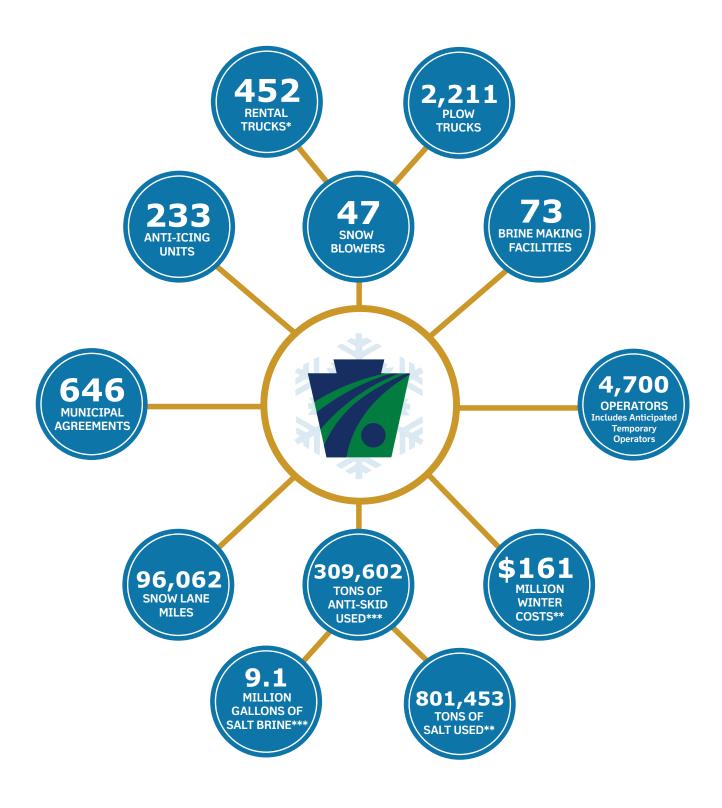
Wing plow- When mounted on both sides of a truck, can allow a truck to clear almost an extra 8 to 9 feet of lane width in addition to the 11 feet or so already cleared by the main plow.

Tow plow- Towed by a plow truck and when combined with a front plow, the combination will clear a width of 25 feet or two full lanes.

Municipal Agreements- Agreements in place for municipalities to clear state roads in their jurisdiction.



Winter by the Numbers



^{*} Estimated number of rental trucks
** Average amount used over last five winters
*** Amount used 2022-2023 winter

During winter weather, PennDOT's primary goal is to keep roads **passable and as safe as possible.** Roads **will not be free of ice and snow** while precipitation is falling.

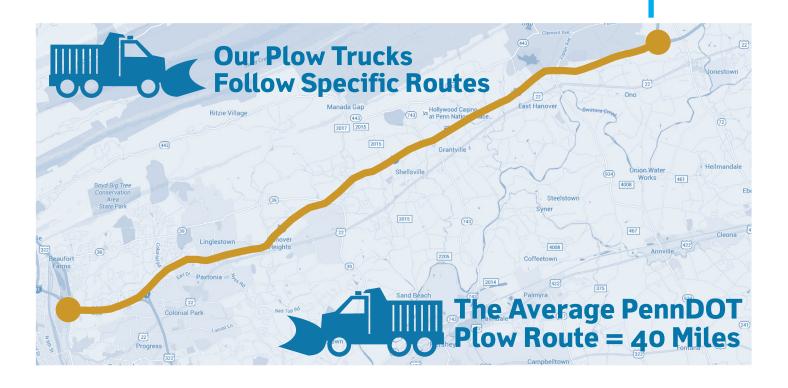
Storm Management

Each storm is different and varies, even from region to region. PennDOT staff review weather reports and on the ground conditions to plan how to manage each storm.

In a non-freezing rain storm, department crews may pre-treat with salt brine, essentially a mix of water and salt, from the backs of anti-icing trucks before frozen precipitation starts to fall. While **salt brine isn't needed for every storm**, when it's used it helps PennDOT get a jump start on removing ice and snow. Examples of when crews will not pretreat include when a storm is **forecast to start as rain** (rain will wash the material away) or when **there is enough salt residue** from a previous storm.

In addition to storm preparation, how PennDOT uses winter materials during storms varies by roadway and precipitation type. On higher-volume roadways, salt is the primary winter material used through a storm, especially during rush hours and on bridges, hills, curves and intersections. On lower-volume roadways the amount of salt will be reduced and anti-skid will be used more as salt is most effective with higher traffic volumes.

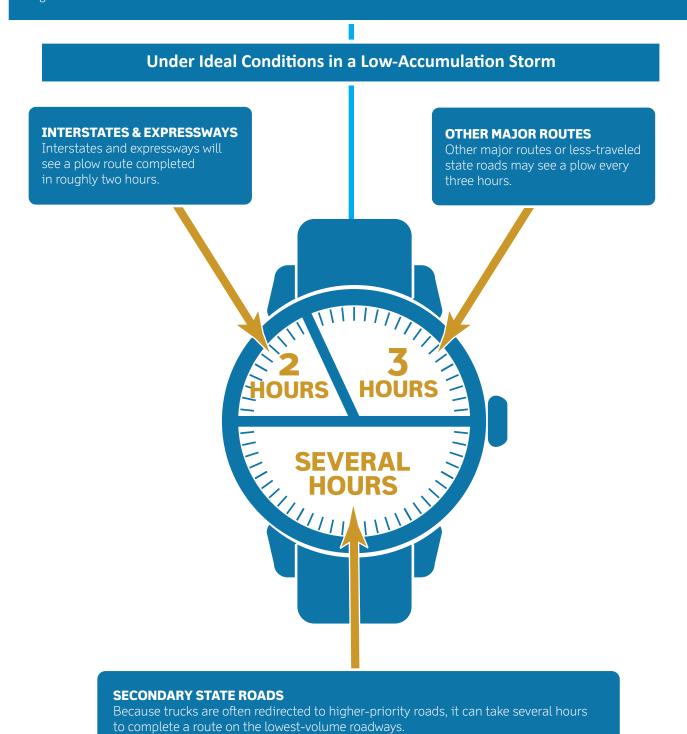
More Traffic = More Attention from Plows



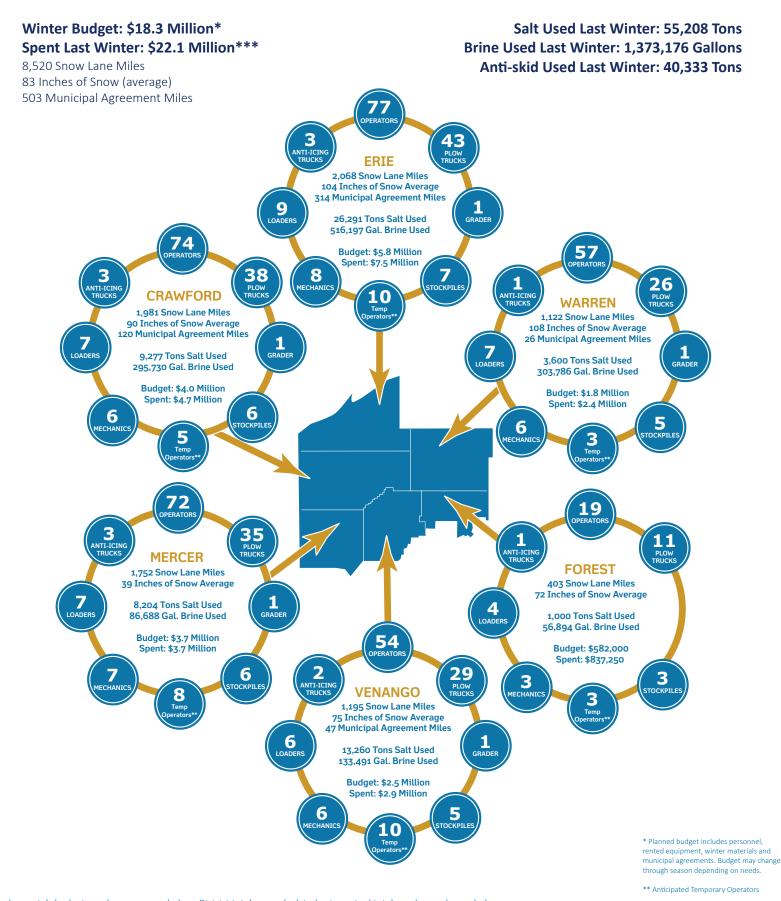
Average Plow Times During Winter Weather Events

The time it takes for a plow truck to pass by the same point on the route depends on how heavy precipitation is and how much traffic is on the roadway.

Interstates and expressways are PennDOT's primary focus. In fact, equipment may be redirected to these roads during significant storms.



The **heavier** the traffic or precipitation on a roadway, the **longer** these routes will take.



Each county's budget numbers are rounded up. District totals are calculated using actual total number and rounded up.

^{***}Budget spent 2022-2023 winter

DISTRICT 1 OFFICE

255 Elm Street Oil City, PA 16301 814-678-7085

CRAWFORD COUNTY OFFICE

18492 Smock Highway Meadville, PA 16335 814-332-6880

ERIE COUNTY OFFICE

9031 Peach Street Waterford, PA 16441 814-871-4411

FOREST COUNTY OFFICE

645 Elm Street Tionesta, PA 16353 814-755-3580

MERCER COUNTY OFFICE

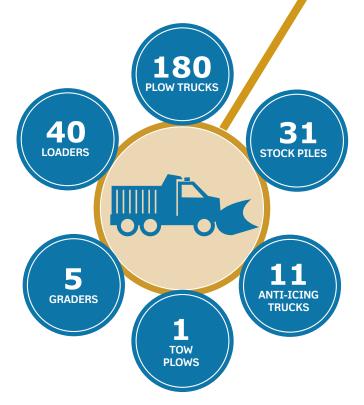
215 North Maple Street Mercer, PA 16137 724-662-5350

VENANGO COUNTY OFFICE

1460 Pittsburgh Road Franklin, PA 16323 814-432-3115

WARREN COUNTY OFFICE

20745 Route 6 Warren, PA 16365-0985 814-723-3500



36

MECHANICS

DISTRICT 1 TOTALS

District Executive

ADMINISTRATION

Brian McNulty, P.E.

Acting Assistant District Executive/Maintenance

Bree McDonald-Stewart

Community Relations Coordinator

Jill Harry

Safety Press Officer

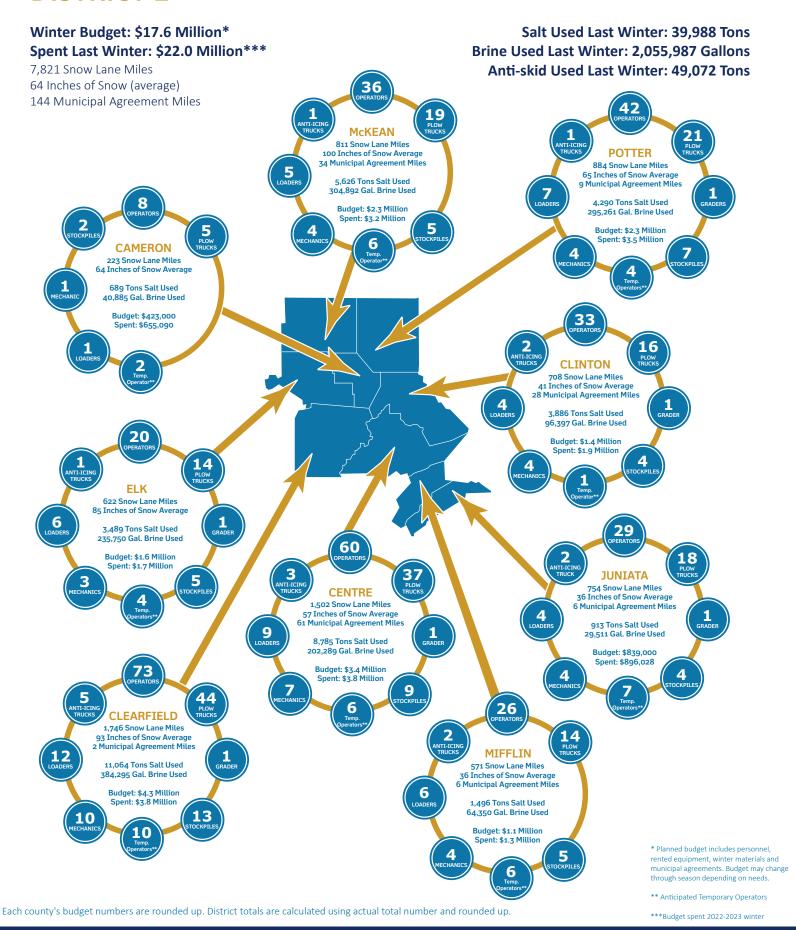
Saxon Daugherty

OPERATORS

TEMP.

OPERATORS*

^{**} Anticipated Temporary Operators



DISTRICT 2 OFFICE

70 PennDOT Drive Clearfield, PA 16830 814-765-0400

CAMERON COUNTY OFFICE

21013 CCC Memorial Highway Emporium, PA 15834 814-486-1643

CENTRE COUNTY OFFICE

1000 East Bishop Street Bellefonte, PA 16823 814-355-4731

CLEARFIELD COUNTY OFFICE

1905 Washington Avenue P.O. Box 245 Hyde, PA 16843 814-765-0524

CLINTON COUNTY OFFICE

1054 Ridge Road Mill Hall, PA 17751 570-726-2200

ELK COUNTY OFFICE

32 St. Leo Avenue Ridgway, PA 15853 814-772-0038

MCKEAN COUNTY OFFICE

300 Bingham Road Cyclone, PA 16726 814-465-7754

MIFFLIN COUNTY OFFICE

1200 West Fourth Street Lewistown, PA 17044 717-248-7851

POTTER COUNTY OFFICE

7 West Locust Street Coudersport, PA 16915 814-274-9181

JUNIATA COUNTY OFFICE

4373 William Penn Highway Mifflintown, PA 17059 717-436-2187

> 187 PLOW TRUCKS

> > TOW PLOWS

LOADERS

6

GRADERS

DISTRICT 2 TOTALS



Assistant District Executive/Maintenance

Damon Wagner

Community Relations Coordinator

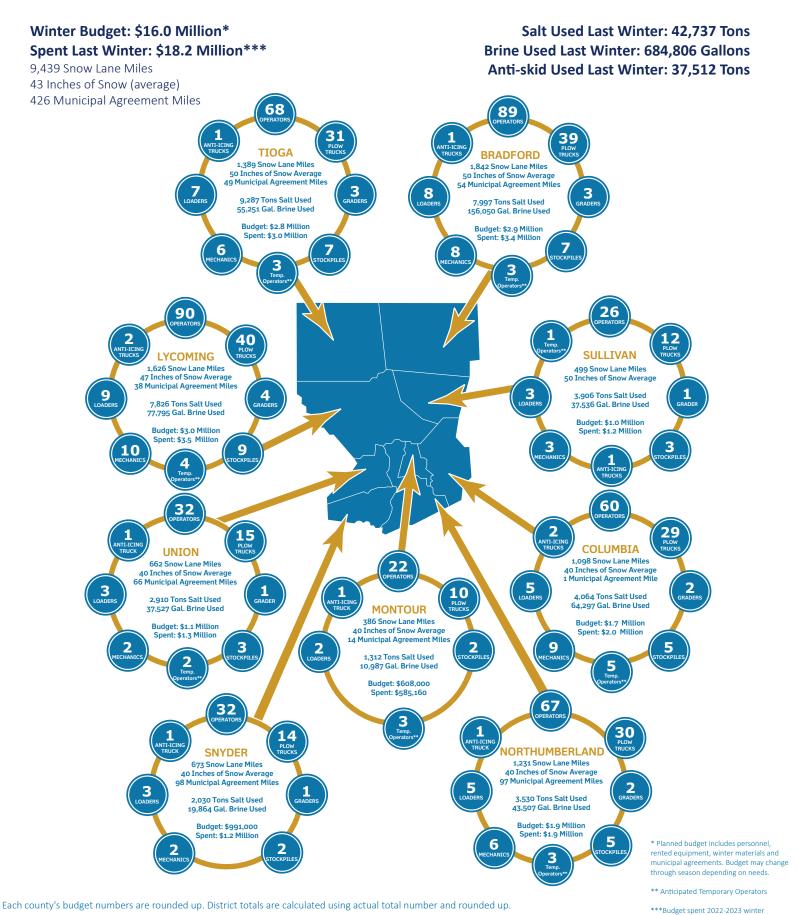
Timothy Nebgen

Safety Press Officer

Vacant



^{**} Anticipated Temporary Operators



DISTRICT 3 OFFICE

715 Jordan Avenue Montoursville, PA 17754 570-368-8686

COLUMBIA COUNTY OFFICE

45 Lunger Drive Bloomsburg, PA 17815 570-387-4250

BRADFORD COUNTY OFFICE

340 York Avenue Towanda, PA 18848 570-265-2181

LYCOMING COUNTY OFFICE

716 Jordan Avenue Montoursville, PA 17754 570-368-4281

MONTOUR COUNTY OFFICE

45 Lunger Drive Bloomsburg, PA 17815 570-387-4250

NORTHUMBERLAND COUNTY OFFICE

LOADERS

GRADERS

355 Dewart St. Sunbury, PA 17801 570-286-7178

SNYDER COUNTY OFFICE

45 Industrial Park Road Selinsgrove, PA 17870 570-372-9100

SULLIVAN COUNTY OFFICE

322 Park Street P.O. Box 128 Laporte, PA 18626 570-946-4031

TIOGA COUNTY OFFICE

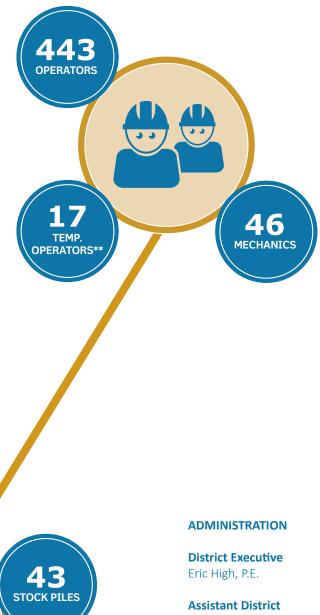
6 Berwart Street Wellsboro, PA 16901 570-724-4142

UNION COUNTY OFFICE

PLOW TRUCKS

612 Fairground Road Lewisburg, PA 17837 570-523-0841

DISTRICT 3 TOTALS



Assistant District Executive/Maintenance

Kenneth Bair, P.E.

Community Relations Coordinator

Maggie Baker

Safety Press Officer

Kimberly Smith

ANTI-ICING

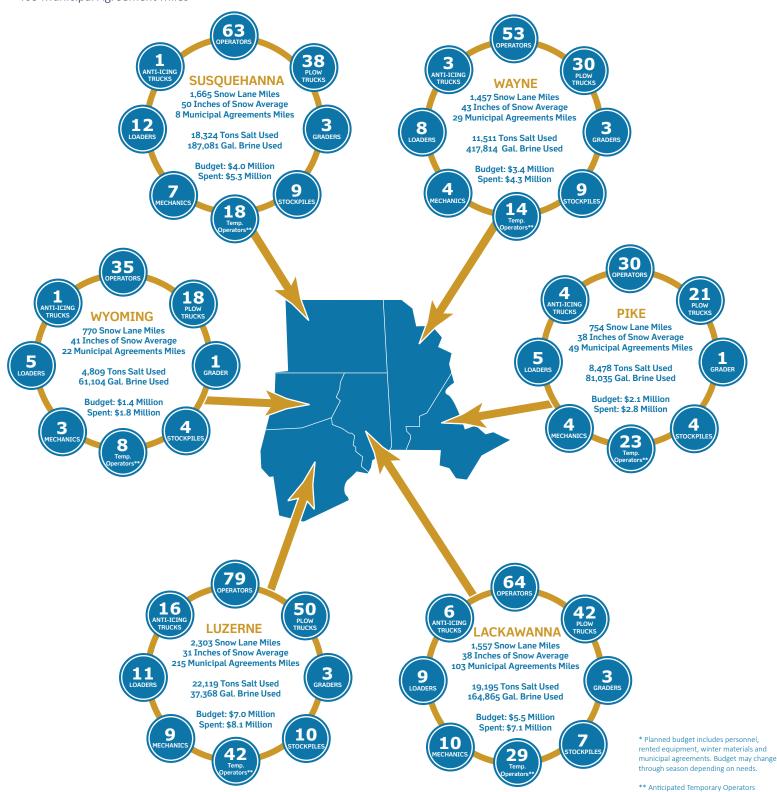
TRUCKS

^{**} Anticipated Temporary Operators

Winter Budget: \$23.4 Million*
Spent Last Winter: \$29.4 Million***

8,526 Snow Lane Miles 40 Inches of Snow (average) 405 Municipal Agreement Miles Salt Used Last Winter: 83,769 Tons Brine Used Last Winter: 1,717,080 Gallons Anti-skid Used Last Winter: 49,495 Tons

***Budget spent 2022-2023 winter



Each county's budget numbers are rounded up. District totals are calculated using actual total number and rounded up.

DISTRICT 4 OFFICE

55 Keystone Ind. Park Dunmore, PA 18512 570 963-4061

LACKAWANNA COUNTY OFFICE

1034 Morgan Highway Clarks Summit, PA 18411 570 586-2211

LUZERNE COUNTY OFFICE

381 South Main Street Ashley, PA 18706 570-826-2386

PIKE COUNTY OFFICE

291 SR 739 Hawley, PA 18428 570-576-3924

SUSQUEHANNA COUNTY OFFICE

18786 State Route 706 Montrose, PA 18801 570-278-1171

WAYNE COUNTY OFFICE

984 Texas Palmyra Highway Honesdale, PA 18431 570 253-3130

WYOMING COUNTY OFFICE

1 Franklin Avenue Tunkhannock, PA 18657 570-836-3141



OPERATORS

DISTRICT 4 TOTALS

ADMINISTRATION

District Executive

Richard N. Roman, P.E.

MECHANICS

Assistant District Executive/Maintenance

Jonathan A. Eboli, P.E.

Community Relations Coordinator

Jessica Ruddy

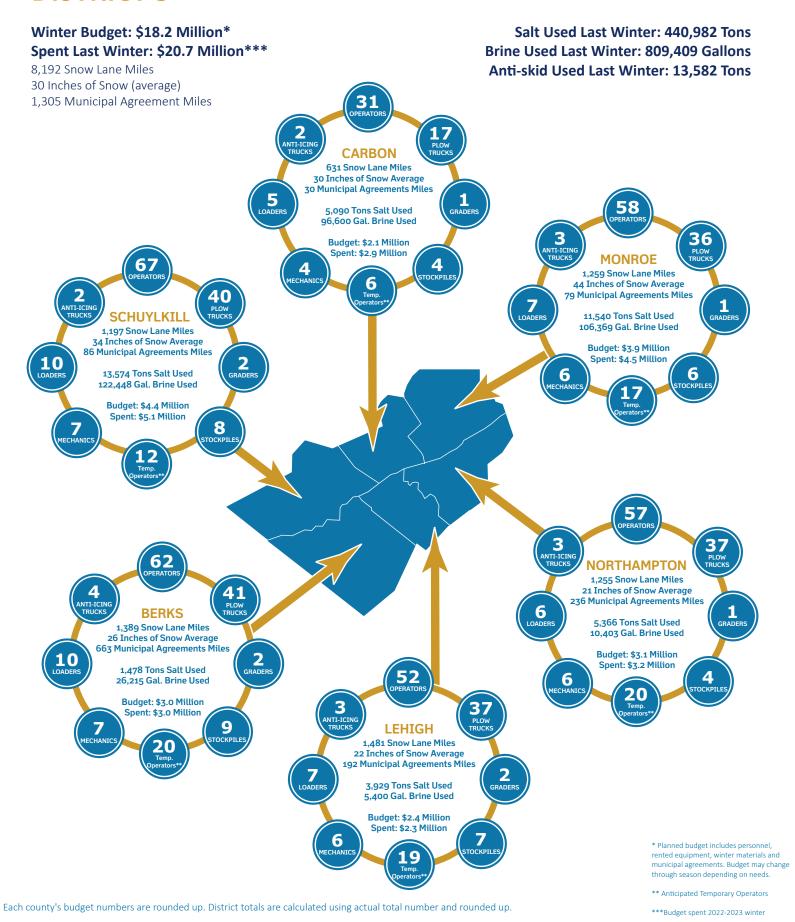
Safety Press Officer

Elizabeth Fabri

TEMP.

OPERATORS*

^{**} Anticipated Temporary Operators



DISTRICT 5 OFFICE

1002 Hamilton Street Allentown, PA 18101 610-871-4100

BERKS COUNTY OFFICE

4680 Fifth Street Highway Temple, PA 19560 610-929-0766

CARBON COUNTY OFFICE

930 Bridge Street Lehighton, PA 18235 610-377-1880

LEHIGH COUNTY OFFICE

1712 Lehigh Street Allentown, PA 18103 610-798-4280

MONROE COUNTY OFFICE

1586 N. 9th Street Stroudsburg, PA 18360 570-424-3024

NORTHAMPTON COUNTY OFFICE

3300 Freemansburg Avenue Easton, PA 18045 610-250-1840

SCHUYLKILL COUNTY OFFICE

970 East Main Street Schuylkill Haven, PA 17972 570-385-7812



DISTRICT 5 TOTALS

ADMINISTRATION

District Executive

Christopher J. Kufro, P.E.

36

MECHANICS

Assistant District Executive/Maintenance

Bruce B. Bubser

Community Relations Coordinator

Ronald J. Young, Jr., M.P.A.

Safety Press Officer

Sean Brown

OPERATORS

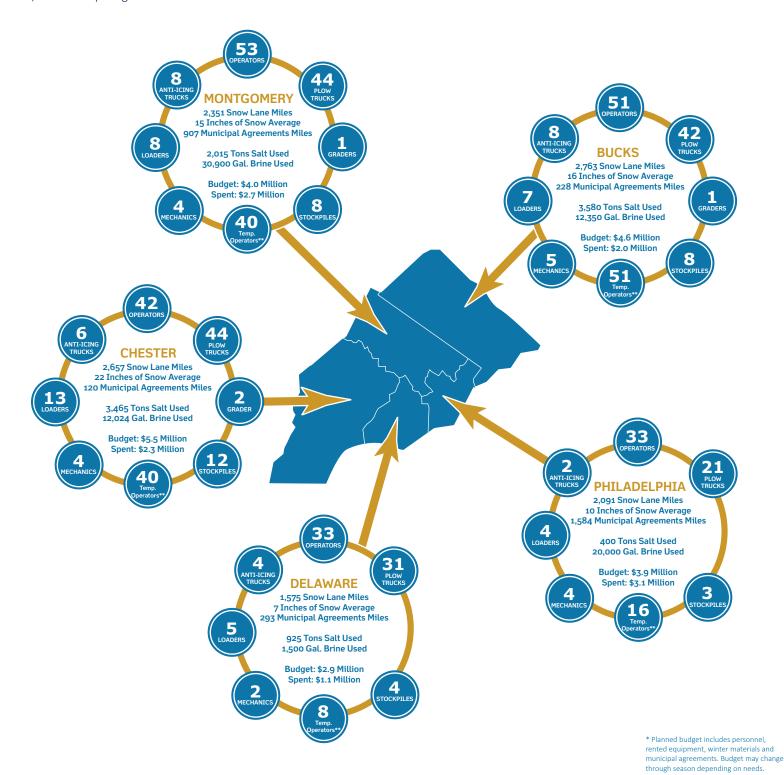
TEMP.

OPERATORS*

^{**} Anticipated Temporary Operators

Winter Budget: \$20.9 Million*
Spent Last Winter: \$11.2 Million***

11,347 Snow Lane Miles 14 Inches of Snow (average) 3,448 Municipal Agreement Miles Salt Used Last Winter: 10,385 Tons Brine Used Last Winter: 56,774 Gallons Anti-skid Used Last Winter: 601 Tons



Each county's budget numbers are rounded up. District totals are calculated using actual total number and rounded up.

^{**} Anticipated Temporary Operators

^{***}Budget spent 2022-2023 winter

DISTRICT 6 OFFICE

7000 Geerdes Blvd. King of Prussia, PA 19406 610-205-6700

BUCKS COUNTY OFFICE

6160 Potters Lane Plumsteadville, PA 18949 215-345-6060

CHESTER COUNTY OFFICE

711 Ryan Boulevard Coatesville, PA 19320 484-340-3200

DELAWARE COUNTY OFFICE

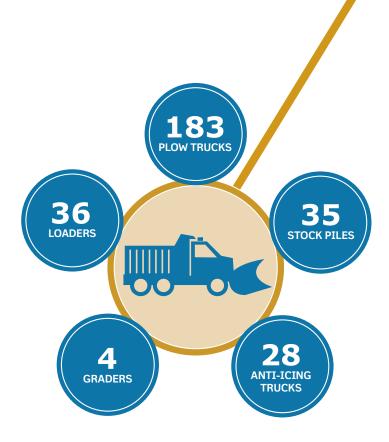
426 S. Old Middletown Rd. P.O. Box B Media, PA 19063 610-566-0972

MONTGOMERY COUNTY OFFICE

Swede Rd. & Johnson Hwy. P.O. Box 350 Norristown, PA 19404 610-275-2368

PHILADELPHIA COUNTY OFFICE

1901 Ruffner Street Philadelphia, PA 19140 215-225-1415



DISTRICT 6 TOTALS

ADMINISTRATION

MECHANICS

District Executive

Louis Belmonte

Acting Assistant District Executive/Maintenance

Andrew Firment

Deputy Communications Director

Brad Rudolph

Community Relations Coordinator

Robyn Briggs

Safety Press Officer

Krys Johnson

Digital Community Relations Coordinator

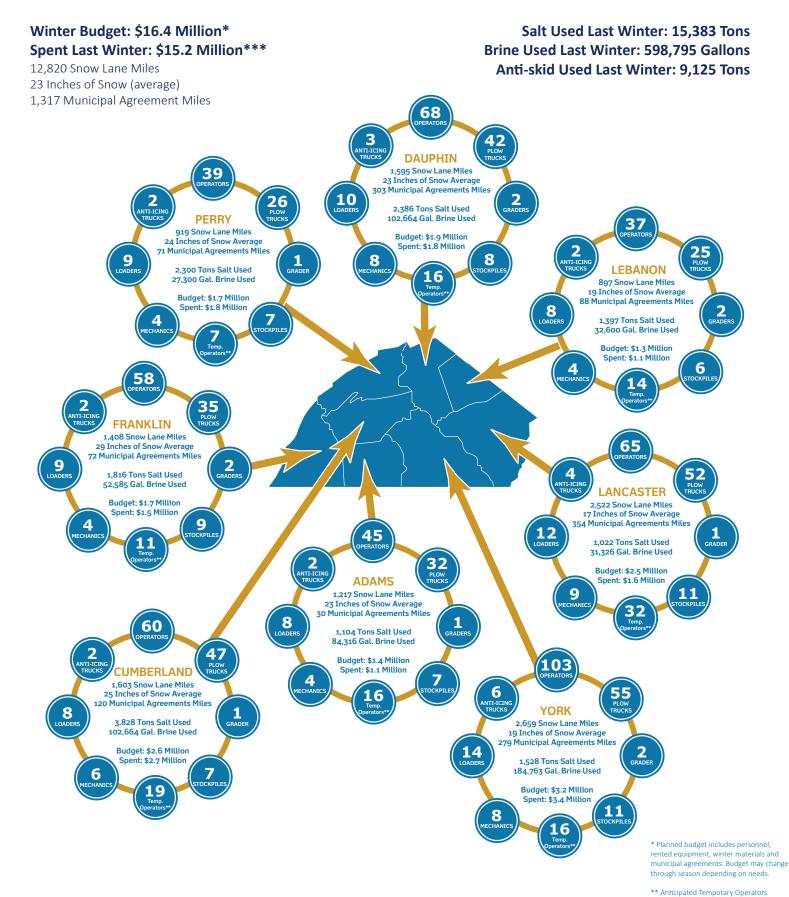
Jacob McKeown

OPERATORS

TEMP.

OPERATORS*

^{**} Anticipated Temporary Operators



Each county's budget numbers are rounded up. District totals are calculated using actual total number and rounded up.

^{***}Budget spent 2022-2023 winter

DISTRICT 8 OFFICE

2140 Herr Street Harrisburg, PA 17103 717-787-6653

ADAMS COUNTY OFFICE

1185 Fairfield Rd. P.O. Box 3248 Gettysburg, PA 17325 717-334-3155

CUMBERLAND COUNTY OFFICE

40 Army Heritage Drive Carlisle, PA 17013 717-243-5414

DAUPHIN COUNTY OFFICE

2140 Herr Street Harrisburg, PA 17103 717-787-5391

FRANKLIN COUNTY OFFICE

619 N. Franklin St. Chambersburg, PA 17201 717-264-4171

LANCASTER COUNTY OFFICE

2105 Lincoln Highway East Lancaster, PA 17602 717-299-7621

LEBANON COUNTY OFFICE

1445 Cumberland Street Lebanon, PA 17042 717-450-2223

LOADERS

GRADERS

PERRY COUNTY OFFICE

413 West Main Street New Bloomfield, PA 17068 717-582-2191

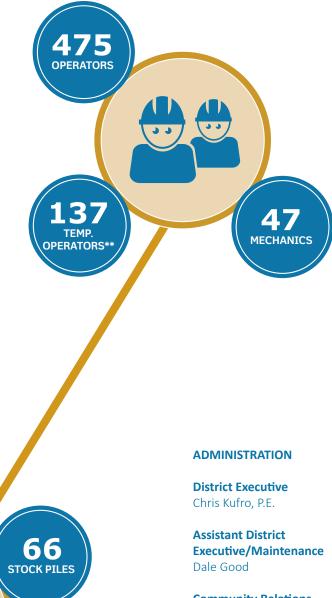
YORK COUNTY OFFICE

1920 Susquehanna Trail North York, PA 17404 717-848-6230

PLOW TRUCKS

TOW PLOWS

DISTRICT 8 TOTALS



Community Relations Coordinator

Dave Thompson

Assistant Community Relations Coordinator

Mike Crochunis

Safety Press Officer

Fritzi Schreffler

ANTI-ICING

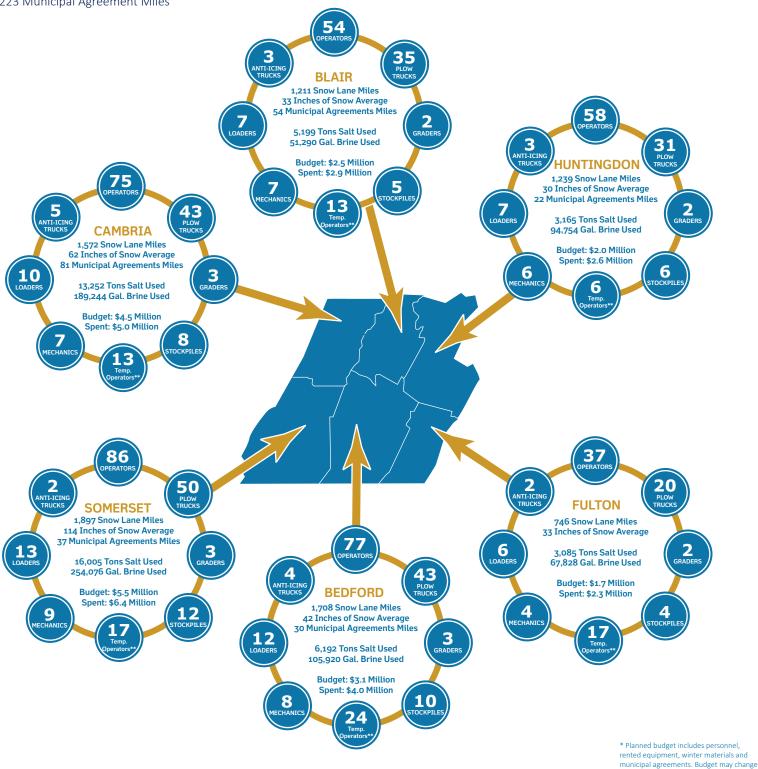
TRUCKS

^{**} Anticipated Temporary Operators

Winter Budget: \$19.3 Million*
Spent Last Winter: \$23.3 Million***

8,373 Snow Lane Miles52 Inches of Snow (average)223 Municipal Agreement Miles

Salt Used Last Winter: 46,901 Tons Brine Used Last Winter: 763,113 Gallons Anti-skid Used Last Winter: 585,299 Tons



Each county's budget numbers are rounded up. District totals are calculated using actual total number and rounded up.

through season depending on needs.

** Anticipated Temporary Operators

^{***}Budget spent 2022-2023 winter

DISTRICT 9 OFFICE

1620 North Juniata Street Hollidaysburg, PA 16648 814-696-7250

BEDFORD COUNTY OFFICE

630 East Penn Street Bedford, PA 15522 814-623-6144

BLAIR COUNTY OFFICE

1598 North Juniata Street Hollidaysburg, PA 16648 814-696-7270

CAMBRIA COUNTY OFFICE

4595 Admiral Peary Highway Ebensburg, PA 15931 814-472-7100

FULTON COUNTY OFFICE

22907 Great Cove Road McConnellsburg, PA 17233 717-485-3816

HUNTINGDON COUNTY OFFICE

8763 William Penn Highway Huntingdon, PA 16652 814-643-0150

SOMERSET COUNTY OFFICE

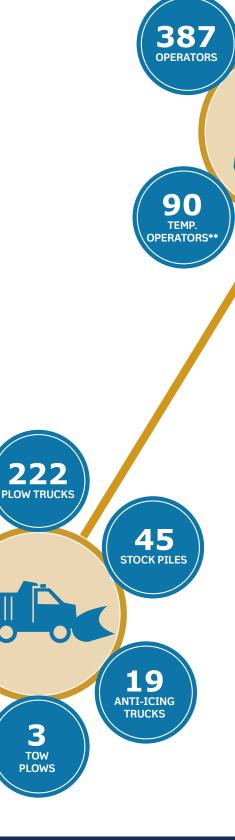
1312 North Center Avenue Somerset, PA 15501 814-445-7905

LOADERS

GRADERS

3

TOW **PLOWS**



ADMINISTRATION

Acting District Executive

MECHANICS

DISTRICT 9 TOTALS

Vince Greenland

Assistant District Executive/Maintenance

David Kammerer, P.E.

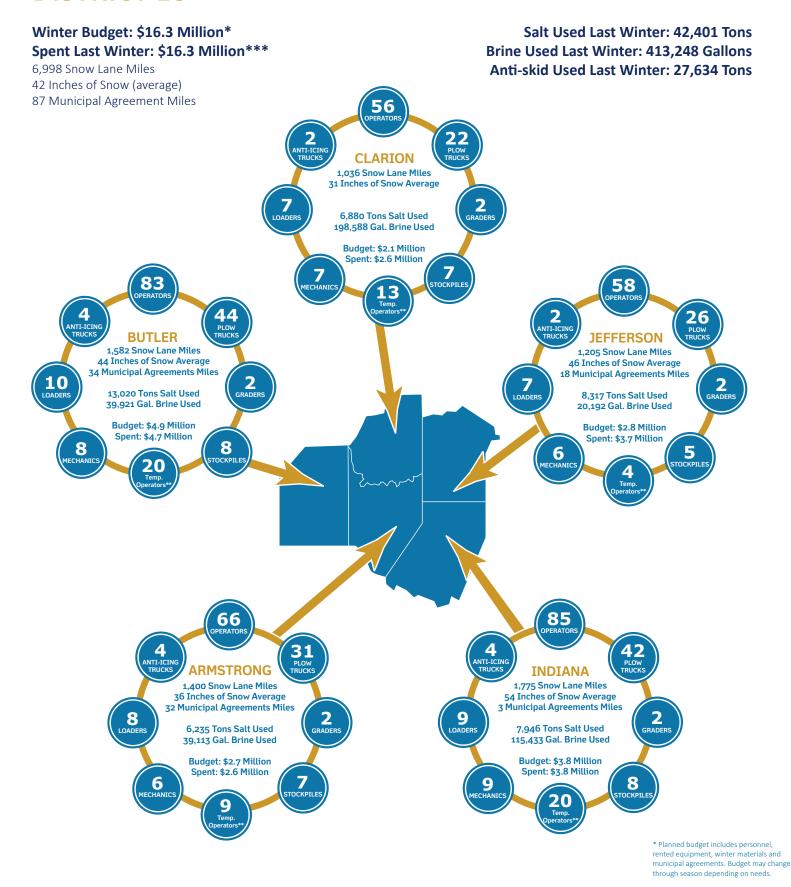
Community Relations Coordinator

Jay Knarr

Safety Press Officer

Monica J. Owens

^{**} Anticipated Temporary Operators



Each county's budget numbers are rounded up. District totals are calculated using actual total number and rounded up.

^{**} Anticipated Temporary Operators

DISTRICT 10 OFFICE

2550 Oakland Ave. Indiana, PA 15701 724-357-2800

ARMSTRONG COUNTY OFFICE

504 S. Water St. Kittanning, PA 16201 724-543-1811

BUTLER COUNTY OFFICE

351 New Castle Road Butler, PA 16001 724-284-8800

CLARION COUNTY OFFICE

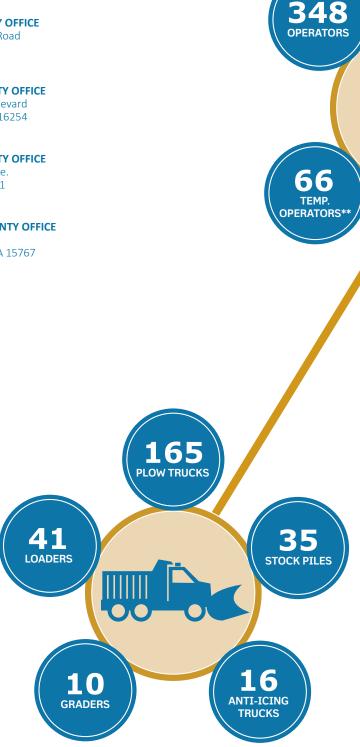
21057 Paint Boulevard Shippenville, PA 16254 814-226-8200

INDIANA COUNTY OFFICE

2550 Oakland Ave. Indiana, PA 15701 724-357-2817

JEFFERSON COUNTY OFFICE

205 Witherow St. Punxsutawney, PA 15767 814-938-6300



ADMINISTRATION

36

MECHANICS

DISTRICT 10 TOTALS

District Executive

Brian N. Allen, P.E.

Assistant District Executive/Maintenance

Matthew J. Burkett

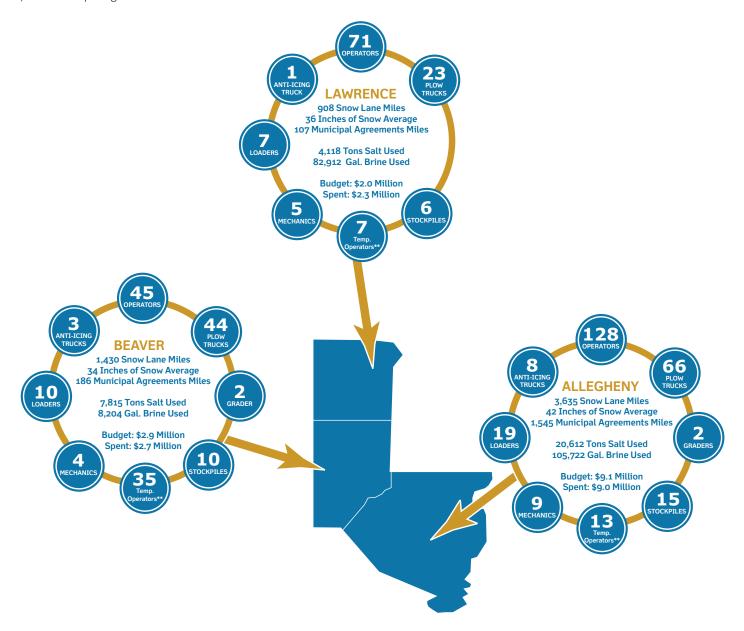
Community Relations Coordinator

Christina "Tina" Gibbs

^{**} Anticipated Temporary Operators

Winter Budget: \$14.0 Million*
Spent Last Winter: \$14.0 Million***

5,973 Snow Lane Miles 43 Inches of Snow (average) 1,838 Municipal Agreement Miles Salt Used Last Winter: 32,546 Tons Brine Used Last Winter: 196,838 Gallons Anti-skid Used Last Winter: 3,422 Tons



^{*} Planned budget includes personnel, rented equipment, winter materials and municipal agreements. Budget may change through season depending on needs.

^{**} Anticipated Temporary Operators

^{***}Budget spent 2022-2023 winter

45 Thoms Run Rd. Bridgeville, PA 15017 412-429-5000

ALLEGHENY COUNTY OFFICE

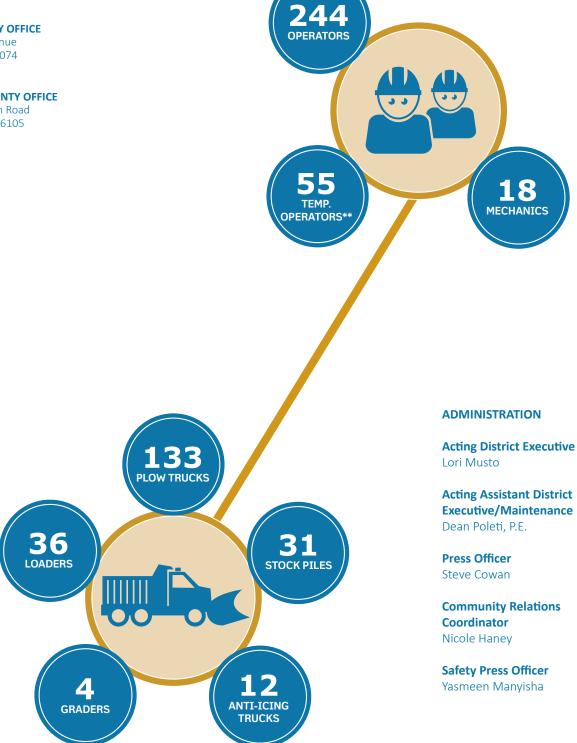
51 Fox Chapel Road Pittsburgh, PA 15238 412-781-3260

BEAVER COUNTY OFFICE

155 Stewart Avenue Rochester, PA 15074 724-774-6610

LAWRENCE COUNTY OFFICE

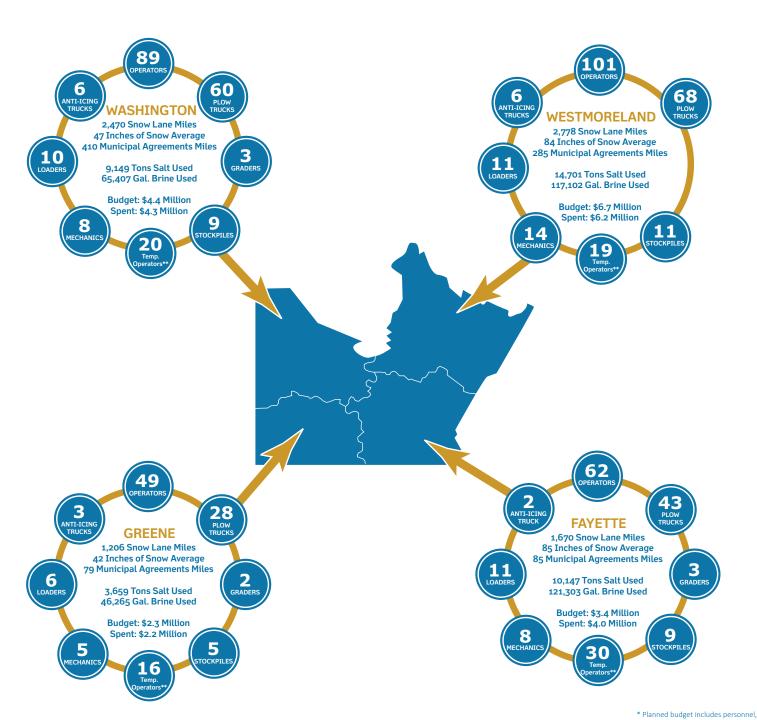
1800 Wilmington Road New Castle, PA 16105 724-656-3104



^{**} Anticipated Temporary Operators

Winter Budget: \$16.7 Million*
Spent Last Winter: \$16.8 Million***

8,124 Snow Lane Miles 84 Inches of Snow (average) 858 Municipal Agreement Miles Salt Used Last Winter: 37,658 Tons Brine Used Last Winter: 350,077 Gallons Anti-skid Used Last Winter: 23,533 Tons



rented equipment, winter materials and municipal agreements. Budget may change through season depending on needs.

^{**} Anticipated Temporary Operators

^{***}Budget spent 2022-2023 winter

825 N. Gallatin Ave. Ext. Uniontown, PA 15401 724-439-7315

FAYETTE COUNTY OFFICE

825 N. Gallatin Ave. Ext. Uniontown, PA 15401 724-439-7470

GREENE COUNTY OFFICE

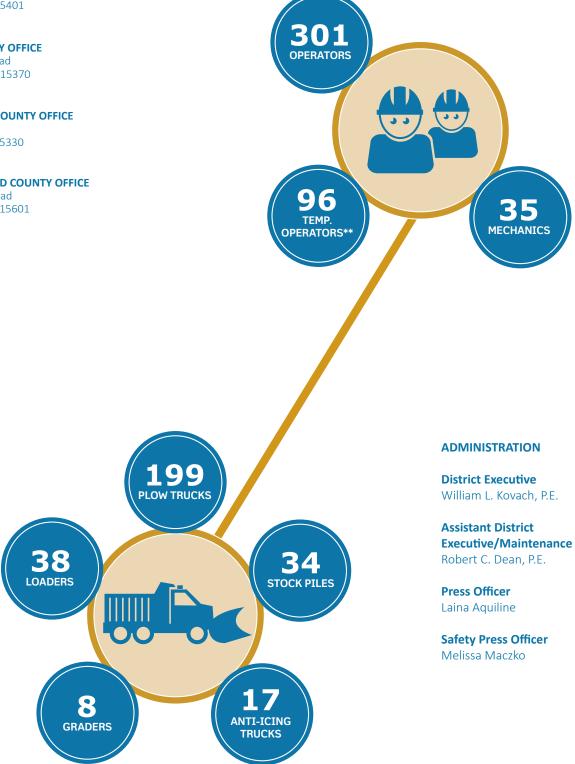
129 Jefferson Road Waynesburg, PA 15370 724-627-6131

WASHINGTON COUNTY OFFICE

170 Route 519 Eighty Four, PA 15330 724-223-4480

WESTMORELAND COUNTY OFFICE

144 Donohoe Road Greensburg, PA 15601 724-832-5387



^{**} Anticipated Temporary Operators

