

# Annual Report

2015

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It seems that every year I write about funding shortfalls, rising costs of materials, and how it translates to deteriorating roads/bridges. Included in this annual report are charts and graphs showing the history over the past decade (from 2005 to 2015). It is hard to deny that these charts show an alarming trend that our infrastructure will continue to deteriorate this year and into the future without an increase in funding.

This 10 year history can be found in the Appendix. The following is some of the observations from these charts and graphs.

The first chart in the ten year history shows that we have reduced staff from 43 to 30 people, a 30% reduction. We have consolidated jobs, expanded job descriptions and responsibilities. We have lost, and plan to not replace personnel thru attrition. This is bound to be detrimental in the future as knowledge and skill sets are lost. Not to mention that less workers mean less production.

Charts 2,3,4 and 5 show the cost of materials over the past ten years. These are the materials we use the most to maintain our roads and bridges. The cost of asphalt per ton has increased 147%. The costs of salt per ton has increased 147%. The costs per ton of #1 and #2 limestone (not hard blue) have increased 60%. The cost of #304 limestone (hard blue) has increased 182%. The cost per foot of bridge piling have increased 26%. The costs of fuel we use? If you can figure that one out, please let me know.

Chart 6 shows our total income from all sources, excluding grants and reimbursements, over the past ten years. As you can see, we have basically had the same income to maintain our roads and bridges for a decade.

Charts 7,8,9 and 10 further break out our income from gas tax, statewide license tax, permissive license tax, and Amish Road contributions.

We have tried to do more with less over the past 10 years; now, we are going to have to be resolved that we will have to do less this year and in the upcoming years. Unfortunately, not investing enough in the maintenance of our infrastructure today, will cost us more in the future by having to rebuild it entirely!

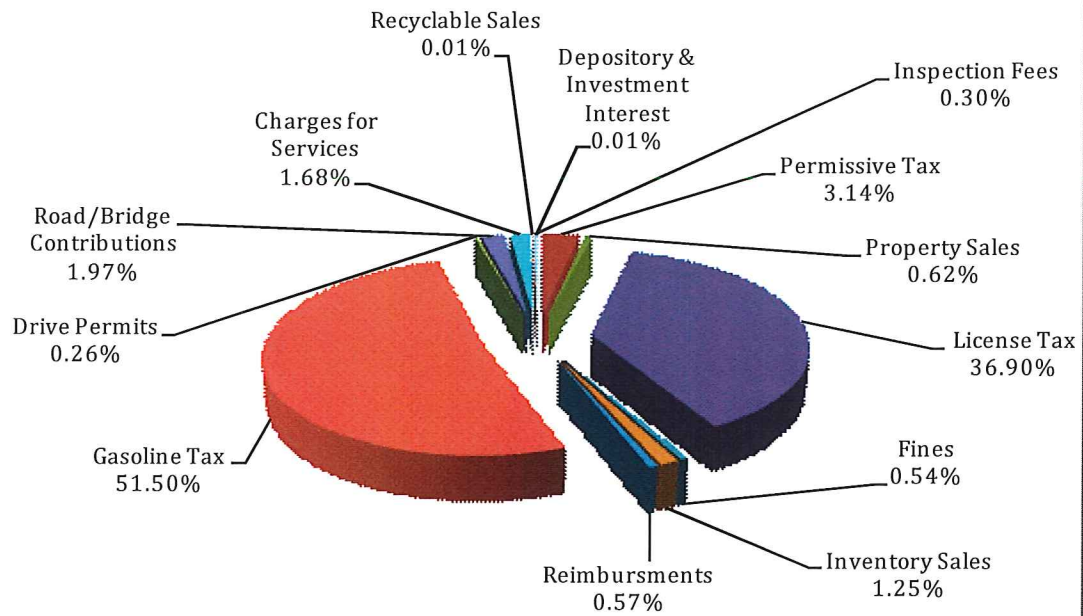
There has been some discussion at the local level to try and figure out a temporary funding source until the state and federal governments put forth a long term solution to our funding needs.

I respectfully submit this annual report required by Ohio Revised Code Ch. 5543.

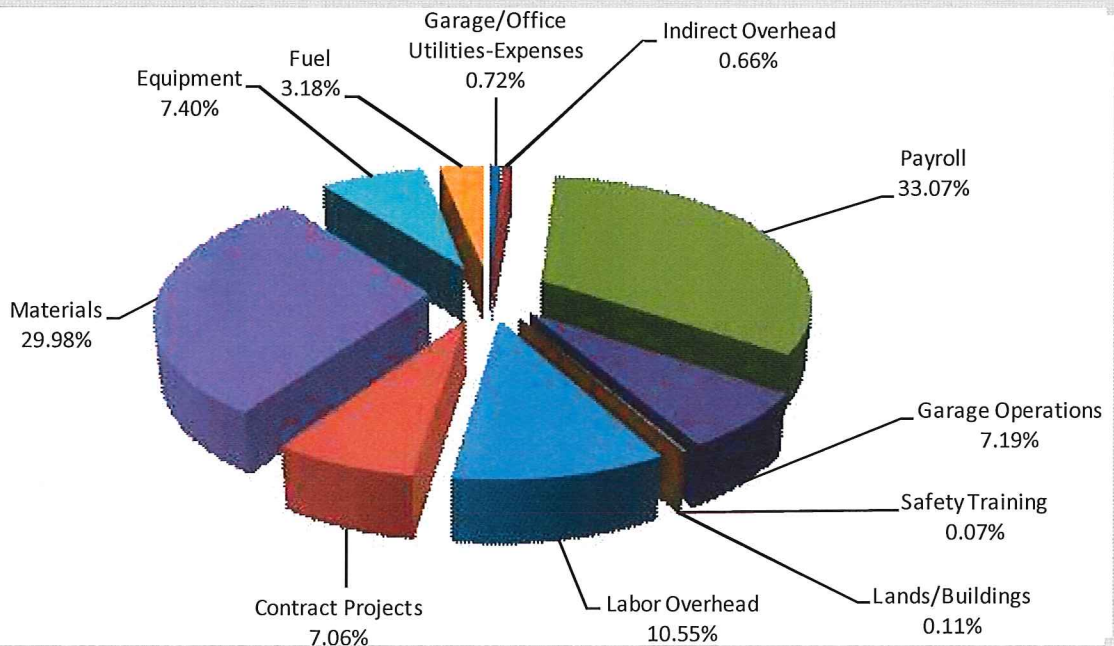
  
Christopher R. Young, P.E., P.S.

# 2015 BUDGET

## WHERE THE MONEY COMES FROM ....



## HOW THE MONEY WAS SPENT ....



## 2015 ROAD PROJECTS

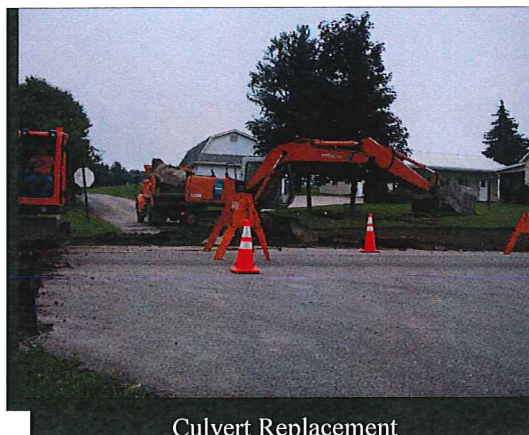


Snow/Ice Removal



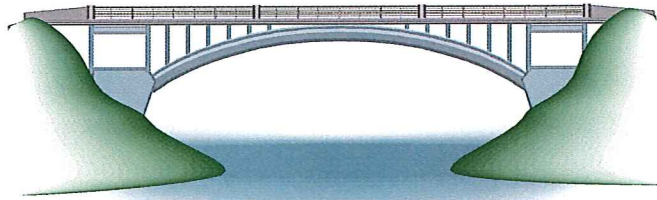
Berming CR-51

| 2015 Road Projects                       | Equipment    | Labor        | Material     | Total        |
|------------------------------------------|--------------|--------------|--------------|--------------|
| Culverts/Catch Basins Install & Repaired | \$22,618.24  | \$25,681.38  | \$13,062.06  | \$61,361.68  |
| Snow/Ice Removal 10/13-03/14             | \$50,476.00  | \$59,152.54  | \$111,722.36 | \$221,350.90 |
| Ditching                                 | \$32,906.86  | \$34,800.71  | \$1,018.11   | \$68,725.68  |
| Patching                                 | \$151,153.92 | \$274,771.08 | \$236,495.18 | \$662,420.18 |
| Hauling Stock                            | \$2,646.50   | \$2,599.56   | \$0.00       | \$5,246.06   |
| Berming/Washout Repairs                  | \$3,014.00   | \$3,938.98   | \$783.89     | \$7,736.87   |
| Mowing                                   | \$49,342.00  | \$26,562.52  | \$0.00       | \$75,904.52  |
| Chip and Seal                            | \$0.00       | \$0.00       | \$0.00       | \$0.00       |
| Leveling                                 | \$11,510.44  | \$17,533.02  | \$78,880.56  | \$107,924.02 |
| Brush & Tree Removal                     | \$6,579.87   | \$13,090.62  | \$0.00       | \$19,670.49  |
| Signage                                  | \$21,690.00  | \$34,850.70  | \$2,462.25   | \$59,002.95  |
| Equipment Moving                         | \$9,756.37   | \$12,162.79  | \$0.00       | \$21,919.16  |



Culvert Replacement

## 2015 BRIDGE PROJECTS



### TR 310-0048

|              |                     |
|--------------|---------------------|
| Equipment \$ | 8,963.00            |
| Labor        | 15,452.00           |
| Material     | 67,294.00           |
| <b>Total</b> | <b>\$ 91,709.00</b> |

### TR 525-0028

|              |                     |
|--------------|---------------------|
| Equipment \$ | 8,465.00            |
| Labor        | 12,838.00           |
| Material     | 66,774.00           |
| <b>Total</b> | <b>\$ 88,077.00</b> |

### TR 506-0230

|              |                     |
|--------------|---------------------|
| Equipment \$ | 10,807.00           |
| Labor        | 12,850.00           |
| Material     | 54,054.00           |
| <b>Total</b> | <b>\$ 77,711.00</b> |

### TR 221-0006

|              |                     |
|--------------|---------------------|
| Equipment \$ | 20,295.00           |
| Labor        | 22,725.00           |
| Material     | 53,302.00           |
| <b>Total</b> | <b>\$ 96,322.00</b> |

### TR 55-0326

|              |                      |
|--------------|----------------------|
| Equipment \$ | 25,802.00            |
| Labor        | 27,261.00            |
| Material     | 45,239.00            |
| Grant        | 54,900.00            |
| <b>Total</b> | <b>\$ 153,202.00</b> |

## 2015 GRANT PROJECTS

### County Road 77 Resurfacing Phase IV

|                    |                    |
|--------------------|--------------------|
| OPWC               | \$228,778.00       |
| Local In Kind Work | <u>\$33,879.29</u> |
| Total              | \$262,657.29       |

Asphalt overlay and shoulder reconstruction of approximately 1 mile of County Road 77

### HOL CR 22-8.50 Bridge Replacement

|                 |                    |
|-----------------|--------------------|
| LBR             | \$396,662.19       |
| Local Funds     | <u>\$20,876.96</u> |
| Total (To date) | \$417,539.15       |

Total project cost is \$1,199,691.40 funded by LBR at 95%.

Realignment and replacement of 102' bridge on County Road 22.

### Bridge Materials

|                    |                    |
|--------------------|--------------------|
| OPWC               | \$156,402.00       |
| Local In Kind Work | \$98,302.35        |
| Local Funds        | <u>\$10,483.24</u> |
| Total              | \$265,187.59       |

Structural steel and prestressed concrete box beams for various bridges.

### County Road 385 Railroad Crossing Improvement

|           |            |
|-----------|------------|
| Ohio PUCO | \$3,318.80 |
|-----------|------------|

County Road 385 Railroad crossing safety improvements.

### Speed Zone Studies

|             |              |
|-------------|--------------|
| HSIP        | \$3,240      |
| Local Funds | <u>\$360</u> |
| Total       | \$3,600      |

Speed zone study for 3 locations.

### Guardrail Phase 8

|                   |              |
|-------------------|--------------|
| CEAO Safety Funds | \$271,059.50 |
|-------------------|--------------|

Installation of approximately 16,500 feet of guardrail

# 2015 BRIDGE SUMMARY

## 2016 HOLMES COUNTY BRIDGE SUMMARY AS REQUIRED BY ORC 5543.20

| Condition            | Bridges |
|----------------------|---------|
| 9 - Excellent        | 24      |
| 8 - Very Good        | 32      |
| 7 - Good             | 67      |
| 6 - Satisfactory     | 122     |
| 5 - Fair             | 34      |
| 4 - Poor             | 3       |
| 3 - Serious          | 1       |
| 2 - Critical         | 0       |
| 1 - Immanent Failure | 0       |

| Sufficiency Rating | Bridges |
|--------------------|---------|
| 90-100             | 105     |
| 80-90              | 94      |
| 70-80              | 42      |
| 60-70              | 26      |
| 50-60              | 9       |
| 40-50              | 4       |
| 30-40              | 2       |
| <30                | 1       |

| Road Type      | Bridges |
|----------------|---------|
| County Roads   | 101     |
| Township Roads | 180     |
| Municipality   | 2       |
| Total          | 283     |

| Posted Bridges |      |       |      |      |      |      |  |
|----------------|------|-------|------|------|------|------|--|
| ROAD           | SLM  | GROSS | 2F1  | 3F1  | 4F1  | 5C1  |  |
| C0022          | 0861 | -     | 9 T  | 10 T | 11 T | 17 T |  |
| C0050          | 0146 | 30 T  | -    | -    | -    | -    |  |
| C0058          | 0551 | 30 T  | -    | -    | -    | -    |  |
| C0058          | 0557 | 30 T  | -    | -    | -    | -    |  |
| C0101          | 0005 | -     | 15 T | 16 T | 17 T | 29 T |  |
| C0160          | 0649 | 30 T  | -    | -    | -    | -    |  |
| T0028          | 0136 | -     | 15 T | 18 T | 21 T | 34 T |  |
| T0091          | 0002 | 35 T  | -    | -    | -    | -    |  |
| T0123          | 0221 | -     | 13 T | 14 T | 15 T | 26 T |  |
| T0323          | 0307 | -     | 15 T | 21 T | 23 T | 39 T |  |
| T0332          | 0141 | -     | 10 T | 11 T | 12 T | 20 T |  |
| T0355          | 0242 | -     | 12 T | 13 T | 14 T | 23 T |  |
| T0451          | 0153 | -     | 15 T | 23 T | 25 T | 40 T |  |
| T0607          | 0243 | -     | 15 T | 22 T | 24 T | 40 T |  |
| T0613          | 0045 | -     | 15 T | 23 T | 26 T | 40 T |  |
| T0652          | 0301 | -     | 14 T | 16 T | 17 T | 29 T |  |

| 2016 Scheduled Bridge Replacement & Rehab |      |           |
|-------------------------------------------|------|-----------|
| Road                                      | SLM  | Condition |
| CR 022                                    | 0861 | 3P        |
| TR 355                                    | 0241 | 5P*       |
| TR 374                                    | 0190 | 5         |
| TR 414                                    | 0284 | 4*        |
| TR 607                                    | 0243 | 6P        |
| (*) Indicates Rehab                       |      |           |
| (P) Indicates Load Restriction            |      |           |

## 2016 EQUIPMENT NEEDS

April 11, 2016

Holmes County Commissioners  
2 Court Street, Suite 14  
Millersburg, Ohio 44654

Gentlemen:

ORC 5549.01 requires the County Engineer to file written recommendations with Board of County Commissioners on machinery, tools, and equipment that should be purchased for use during the ensuing year and estimated cost thereof.

If funding is available, here is the list of items to be purchased in 2016.

|                     |                  |
|---------------------|------------------|
| Roller              | \$135,000        |
| Mini Excavator      | \$ 80,000        |
| Tractor             | \$ 48,000        |
| Asphalt Distributor | \$150,000        |
| Chip Spreader       | <u>\$100,000</u> |
| GRAND TOTAL         | \$513,000        |

Sincerely,  
HOLMES COUNTY ENGINEER



Christopher R. Young, P.E., P.S.

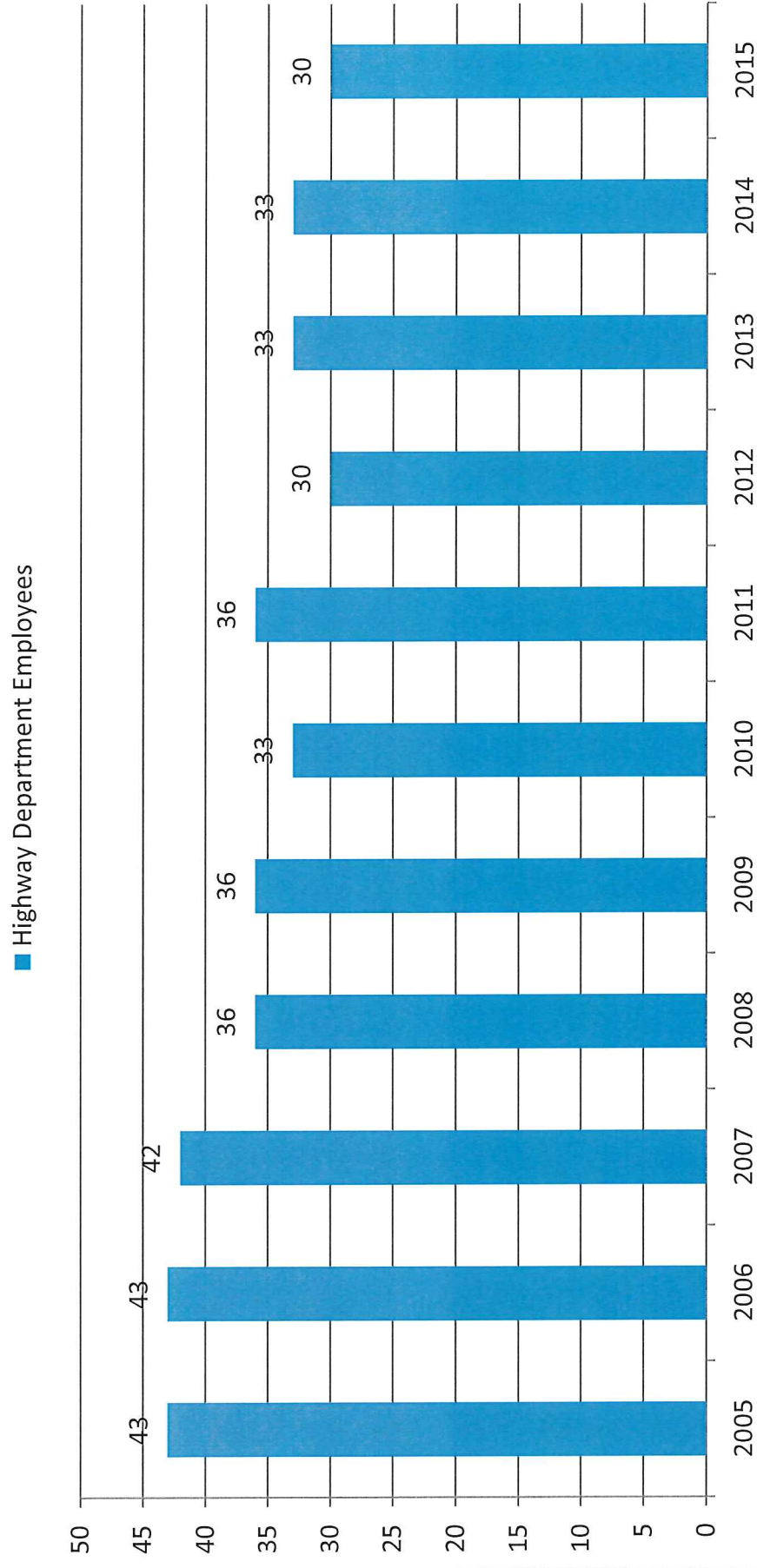
## **APPENDIX**

# **TEN YEAR COMPARISION**

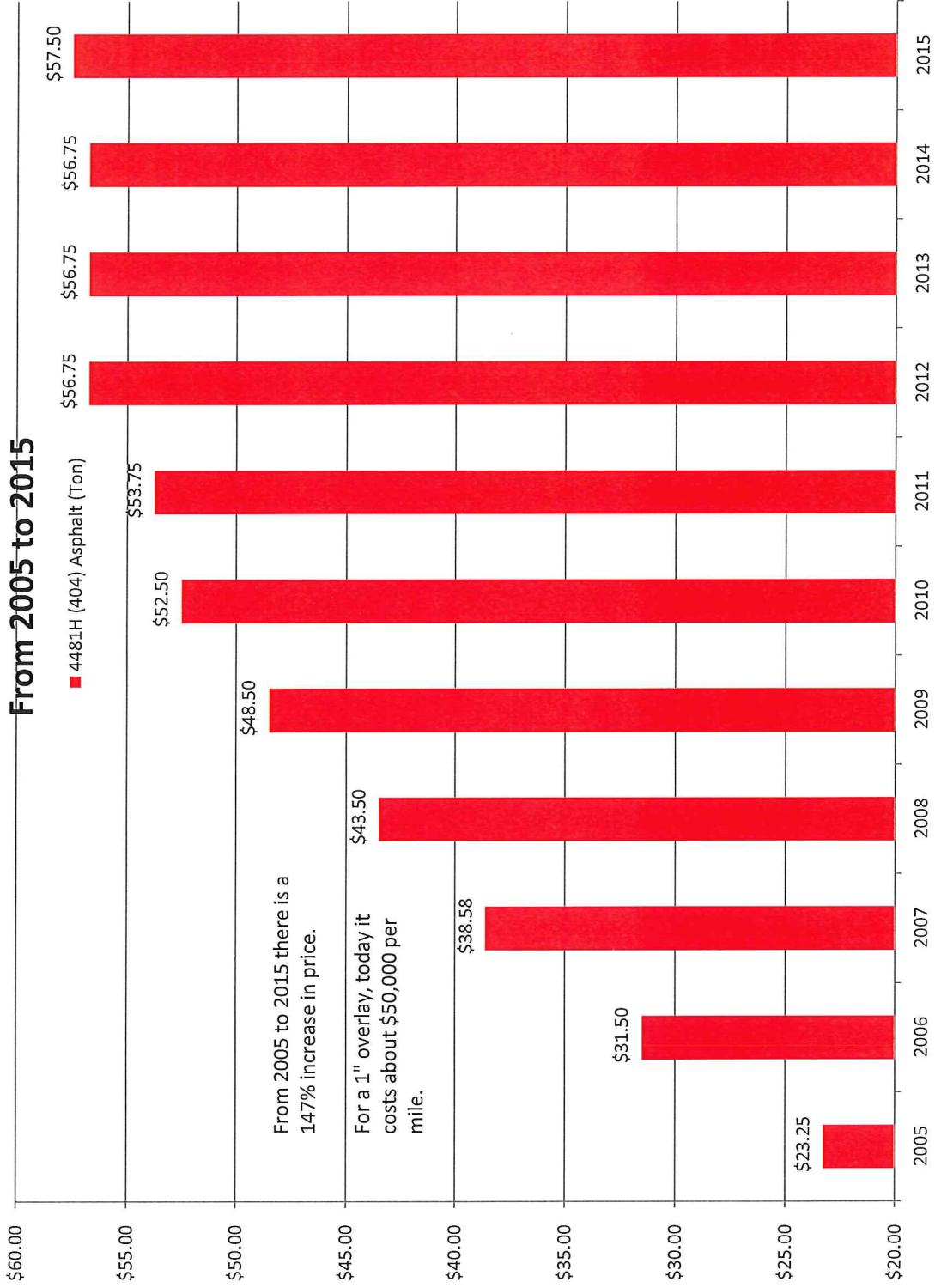
**(2005-2015)**

**CHARTS 1 THRU 10**

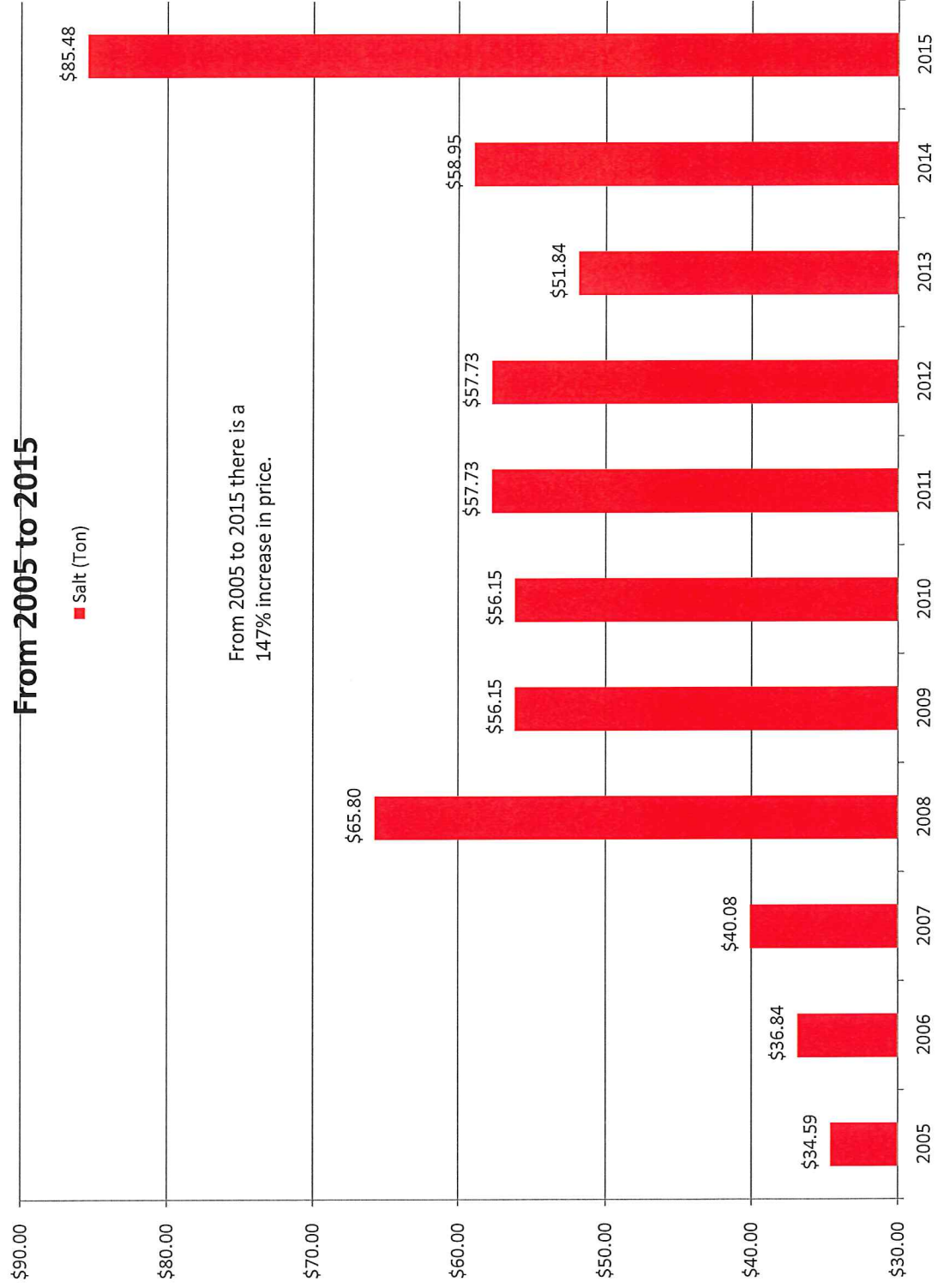
**Chart 1- Number of Highway Dept. Employees  
Per Year (2005 - 2015)**



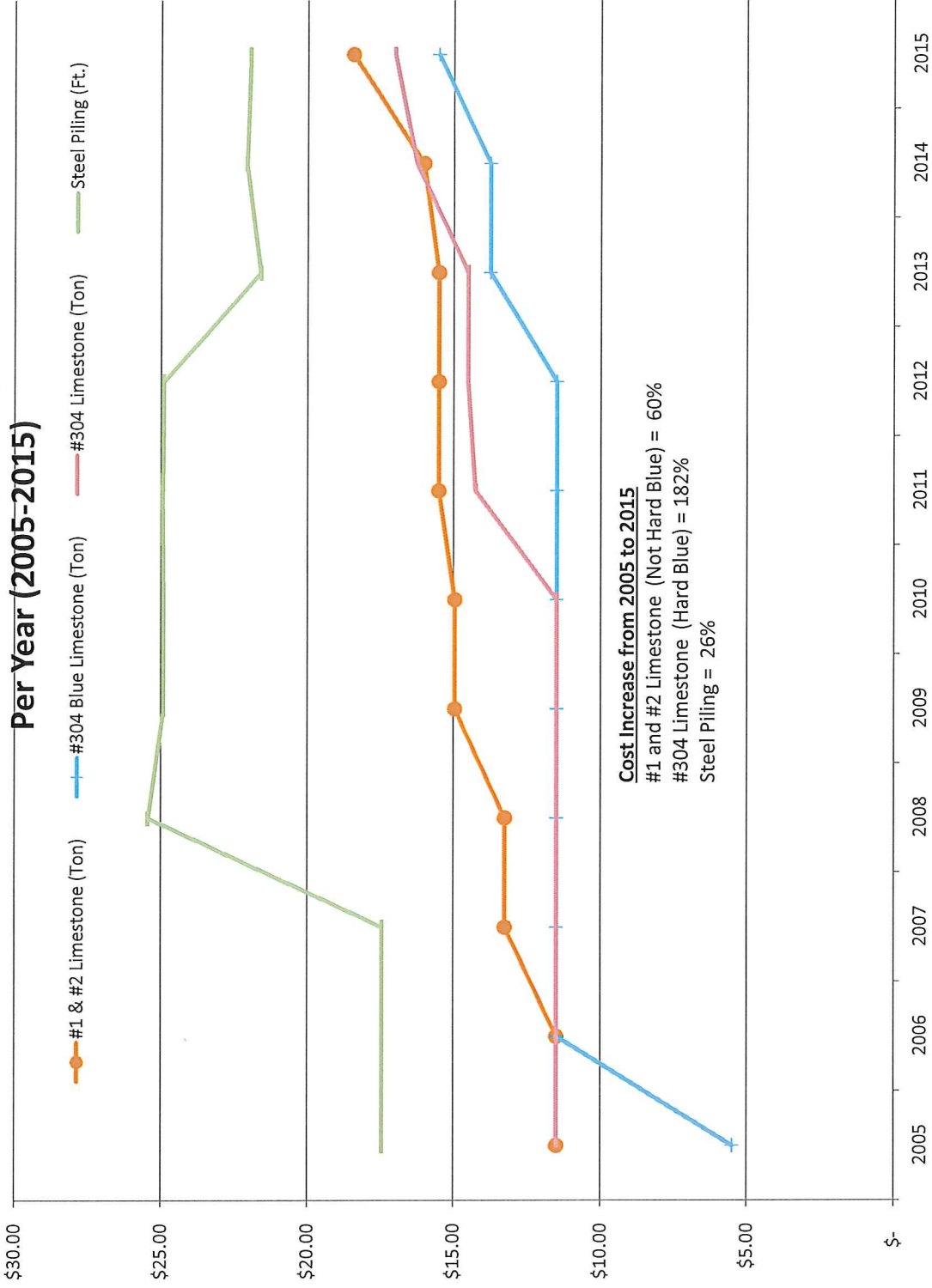
# Chart 2- Asphalt Per Ton Costs



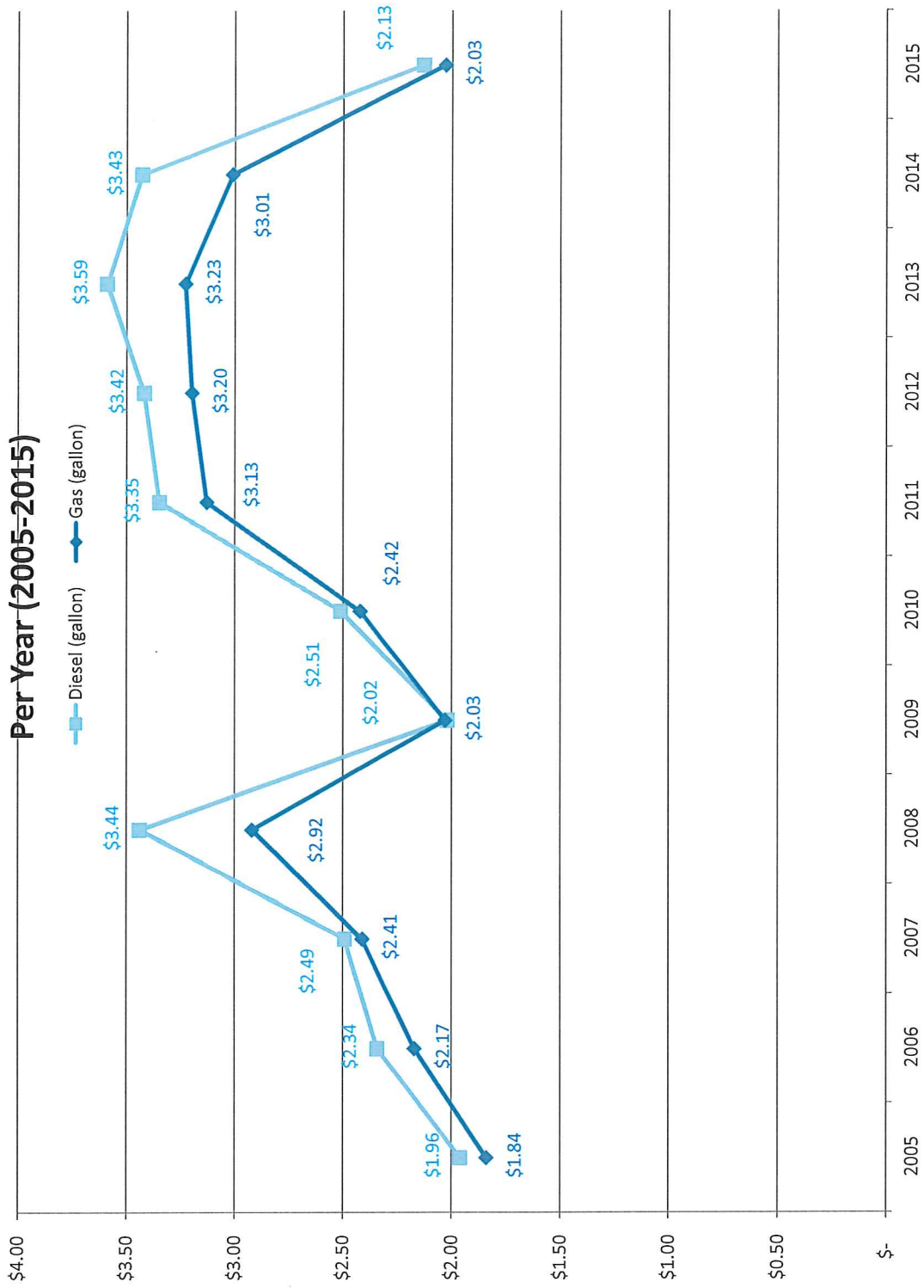
**Chart 3- Road Salt Per Ton Costs  
From 2005 to 2015**



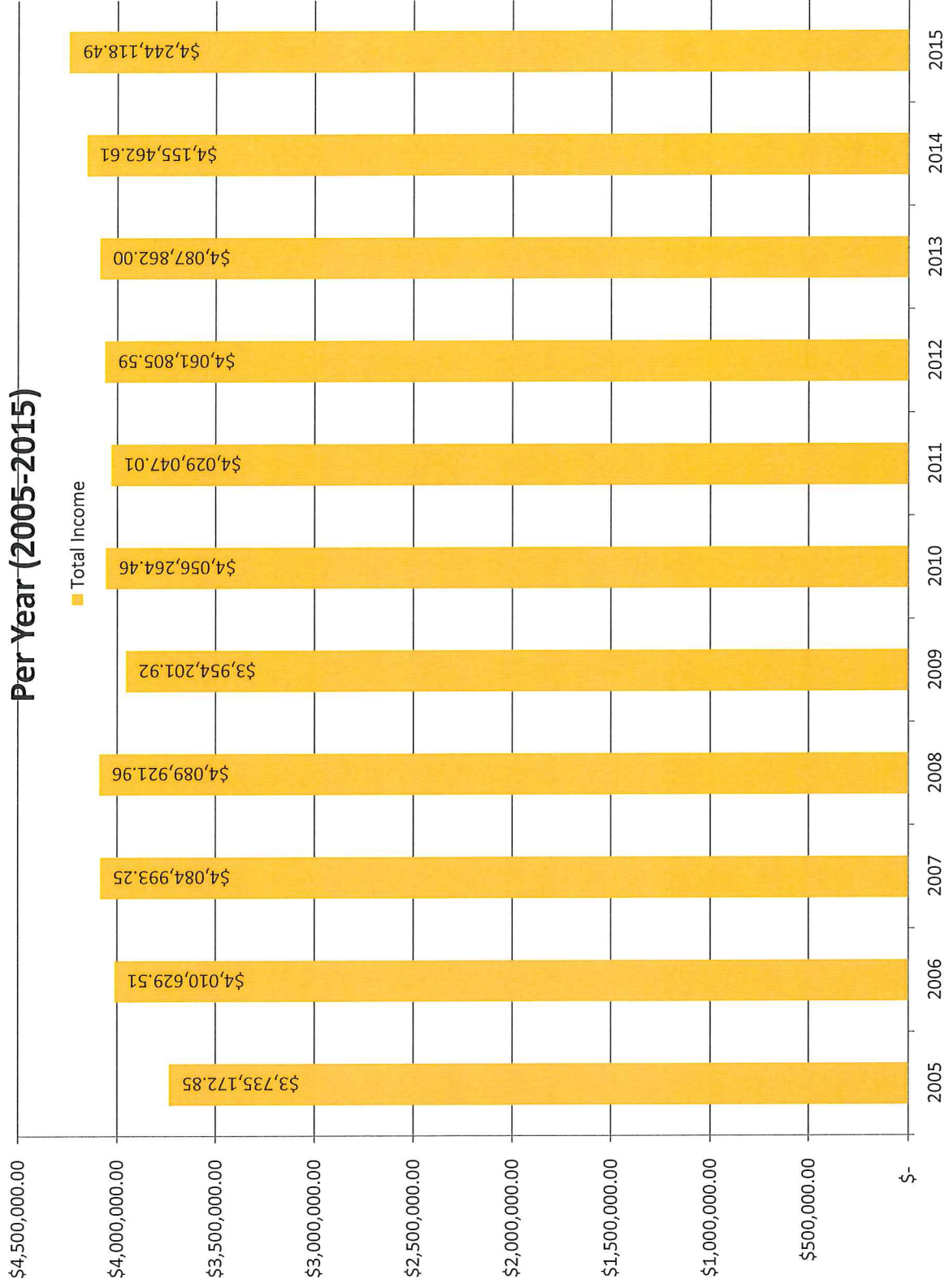
# Chart 4- Stone and Bridge Piling Costs



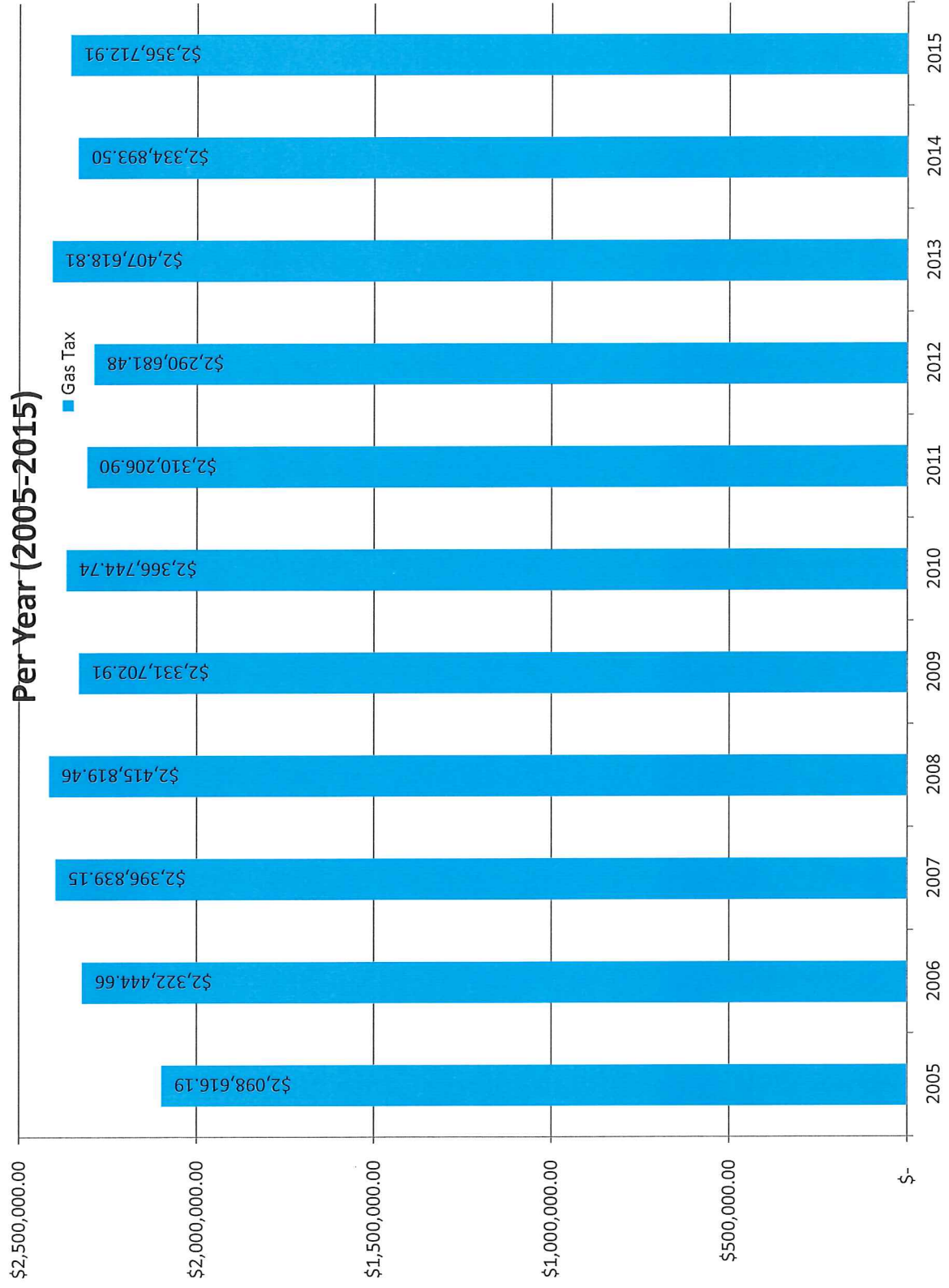
# Chart 5- Gas/Diesel Costs Per Year (2005-2015)



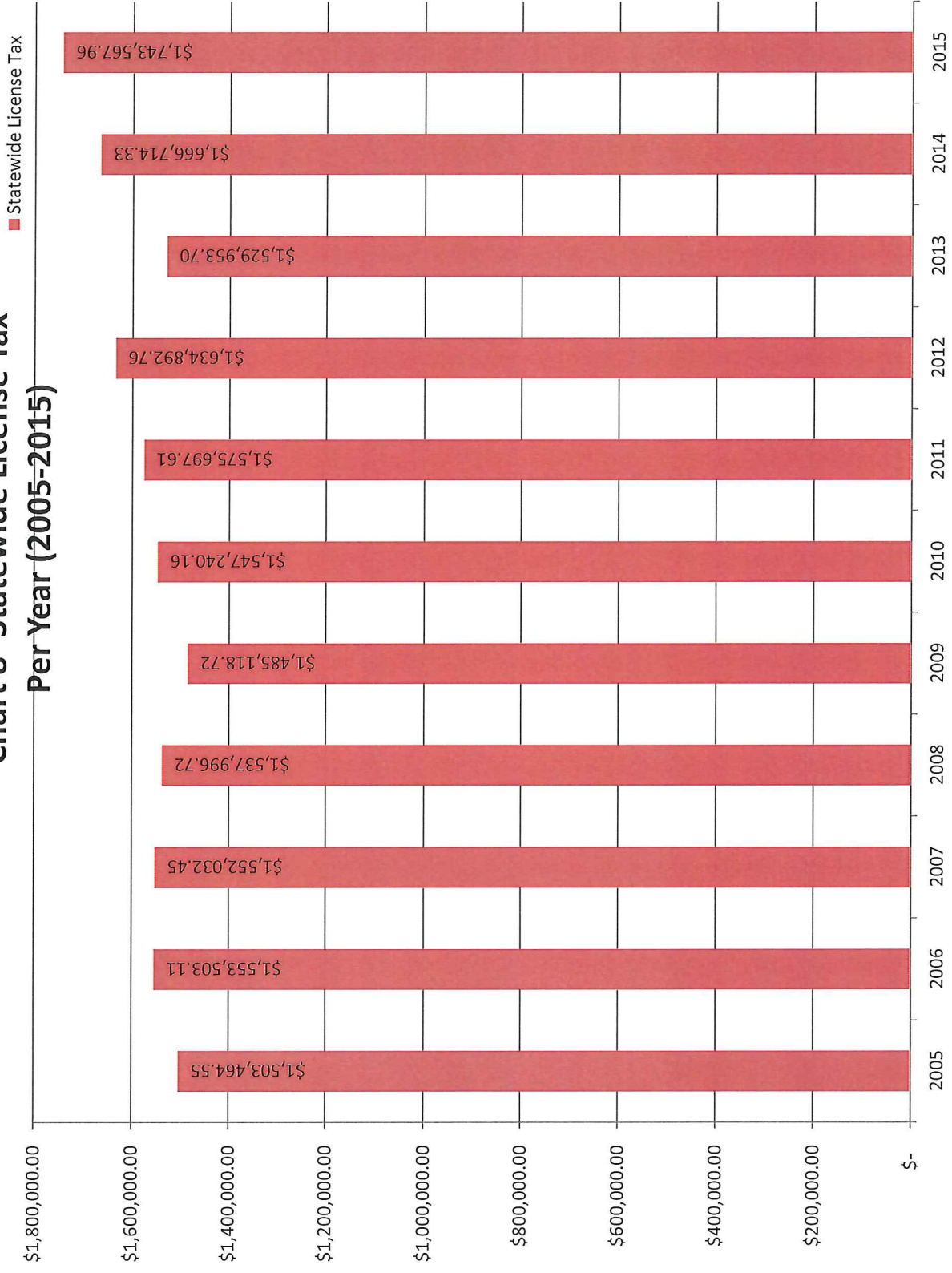
**Chart 6- Total Income from all Gas/License Taxes  
Per Year (2005-2015)**



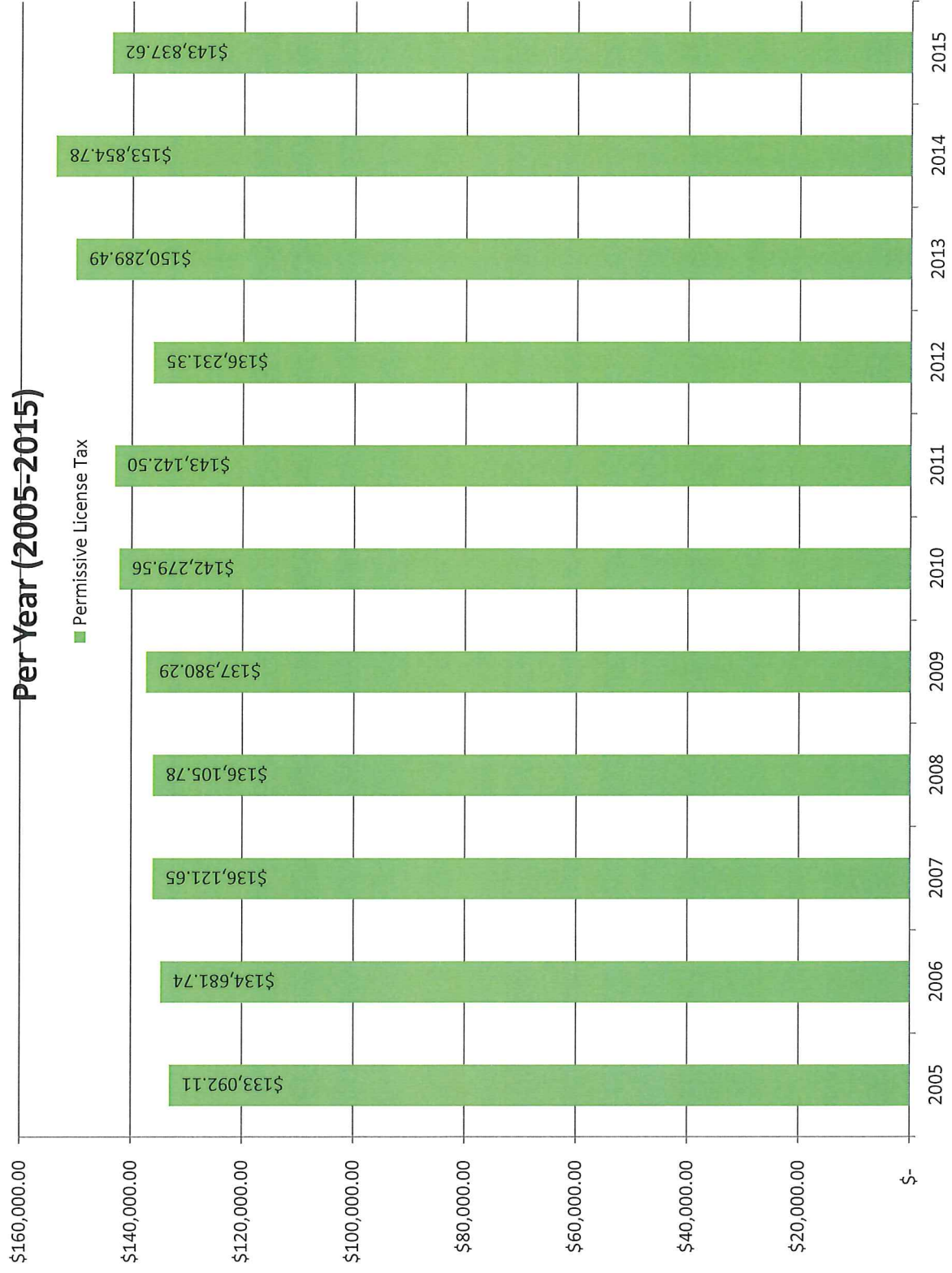
**Chart 7- Gas Tax  
Per Year (2005-2015)**



**Chart 8- Statewide License Tax  
Per Year (2005-2015)**



**Chart 9- Permissive License Tax  
Per Year (2005-2015)**



**Chart 10- Income from Amish Road Contributions  
Per Year (2005-2015)**

