Ohio Rural Road and Bridge Problems: Issues and Alternative Solutions

Ву

Michael J. Pesch and Donald W. Larson*

An interim report prepared for the Ohio Department of Agriculture on a contract with the Department of Agricultural Economics and Rural Sociology at The Ohio State University and the Ohio Agricultural Research and Development Center.

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Introduction

The value of the total capital investment in Ohio's roads and bridges exceeds that of all other Ohio public projects put together. Yet in recent years, maintenance programs designed to protect this huge investment have not kept pace with the deterioration that occurs due to wear-and-tear and natural phenomena. This report will review the problems which have led to the decline in Ohio's road and bridge maintenance programs and will offer suggestions which might help ease this critical situation.

The Maintenance Shortfall

To protect the basic road structure, the Ohio Department of Transportation (ODOT) reports that each mile of state highway should, at a minimum, be resurfaced every ten years. This means that of the 19,000 miles of state highways in Ohio, 1,900 miles should be resurfaced each year. Currently, ODOT resurfaces only 770-800 miles annually, a situation which can have disastrous financial consequences in the future. The cost of major reconstruction on a road which has basic structural damage can be 5-8 times greater than the cost of resurfacing. At the county level, many county engineers are delaying bridge rehabilitation programs

^{*}Technical Assistant and Associate Professor, Department of Agricultural Economics and Rural Sociology, The Ohio State University, and Ohio Agricultural Research and Development Center.

and cutting back on resurfacing projects, resorting instead to a "bare-bones" maintenance strategy of patching and sealing. Declining Revenues and Rising Costs

The basic problem behind Ohio's faltering road and bridge maintenance programs is declining revenues. Steady increases in gasoline consumption in the years prior to 1973 caused Ohio gasoline tax revenues to rise at an average annual rate of 3 percent per year. At the same time, inflation was under 5 percent. Since 1973, rapid increases in the prices of oil products have resulted in decreased gasoline consumption and enormous increases in the cost of road and bridge materials. While gas tax revenues have been steadily decreasing, the cost of materials has been rising at a 30-35 percent annual rate (although with the recent "oil glut" this rate has eased somewhat) (Table 1).

The problem with declining gas tax revenues lies in the fact that the gas tax has been fixed at 7¢ per gallon since 1959. In 1973 when gas was selling at 40¢ per gallon, the gas tax was 17.5 percent of the purchase price. In 1981 with gas selling at around \$1.25 per gallon, the gas tax had been only 5.6 percent of the purchase price. Although the tax was increased by 3½¢ per gallon beginning July 1, 1981, the basic reason why gas tax revenues have been declining has not been changed. With the current cents per gallon gas tax, the proceeds of the gas tax are totally dependent on gasoline consumption. In 1970, when gasoline consumption was up, Ohio collected an average of \$54 in gas tax revenues from each Ohio licensed driver. This amount was just slightly under the national average. In 1979, Ohio collected \$49 per li-

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censed driver compared to the national average of \$68. Meanwhile by 1979, the purchasing power of the dollar had eroded to less than half of what it was in 1970. If gasoline consumption continues to decline, the fixed cents per gallon tax increase will prove to be merely a temporary solution to Ohio's road and bridge woes.

Funding Differences Between the State and County Levels

While the increase in the gasoline tax will significantly boost revenues for ODOT, at least in the short-term, the effect on most county road budgets will be a token increase at best. Unlike ODOT, the counties do not receive the majority of their road funding from gasoline taxes. Instead, most revenue comes from vehicle registration fees. Wayne County, for example, ranks fifth out of 88 Ohio counties in county road mileage and eighth in county bridges maintained. Wayne County receives approximately 80 percent of its road and bridge funds from vehicle registration fees. Only 15 percent of budget funding comes from gasoline taxes. Wayne's share of the 3½ cent gas tax increase is expected to hike its road and bridge budget by a mere 7 percent.

The attention given by the media to the gas tax increase may lead to public pressure on county engineers to mount ambitious road and bridge programs. In reality, the counties' share of the gas tax increase will probably do little more than cover inflation costs for one year.

Can Present Funds Be Used More Efficiently?

Although the purchasing power of county road and bridge budgets has shrunk significantly in recent years, there are some

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people, including at least one county engineer, who feel that existing county road revenues can and should be used more efficiently before any additional funding is approved. This argument centers around a 1962 law (Section 5543.19 (B)) which requires that all proposed bridge improvements estimated to cost more than \$40,000 to be let to contract. Today's equivalent of 40,000 dollars of 1962 means that most bridge improvements must be let to contract. In the opinion of some people, tax dollars could be saved if the county engineer was permitted to do more of what he or she is being paid to do - design bridges and use county labor and equipment to eliminate the overhead and profit which are incorporated into any contract bid.

Heavy Vehicles and Road Damage

Two major factors which contribute to serious and premature road damage are heavy axle weights and high numbers of heavy vehicles. The standard rural road is designed to support axle weights of up to 18,000 pounds. A national trend to increase the maximum axle weight from 18,000 to 20,000 pounds is cause for concern. While the increase would apply only to vehicles on the interstate system, any unauthorized trucks with 20,000 pound axle loads would inflict 50 percent more damage to rural roads than trucks with 18,000 pound axle loads (Figure 1).

The increasing numbers of heavy vehicles is a second major factor contributing to road damage. A 40 ton truck weighs 20 times as much as an automobile, but it causes 9,600 times as much stress on the pavement and roadbed.

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Figure 1: Damage Level Escalation Due to Added Vehicle Weight Per Axle

Source:

Minnesota Department of Highways, Axle Load: Effects on Highway, p.2.

The Enforcement Dilemma

Enforcement of vehicle weight restrictions is a controversial issue. ODOT states that weigh stations on the Ohio interstate system have a citation rate of less than 1 percent. This low rate is primarily due to the fact that truckers are almost always aware of whether they are operating overweight vehicles. An open interstate weigh station surprises few illegal truckers since most truckers receive ample warning over their CB radios that a weigh station is in operation. ODOT claims that the forewarned illegal trucker usually will leave the interstate at the next exit and travel on county roads which are even less able to withstand overweight vehicles.

One solution to this problem is to locate portable scales on the county roads surrounding the operating interstate weigh stations. At the present time, ODOT has nine of the costly portable scales with which to patrol 85,000 miles of state, county, and township roads. Resources are not available to purchase more of the scales even though strong evidence suggests they are an effective deterrent to overweight vehicles. With the element of surprise working in their favor, portable scale operations have a citation rate in excess of 95 percent.

ODOT argues that since it cannot afford additional portable scales, the next best alternative is to cut back on the operating hours of interstate weigh stations. This would at least keep overweight trucks on the interstate system and minimize overall damage to the Ohio road system. Despite the logic of this

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argument, ODOT has continued to operate interstate weigh stations because it does not want to risk public criticism that the agency is not protecting the state's road investment. The Bridge Problem

Many Ohio roads and bridges were originally built in the 1920s and 1930s. Since that time, the sizes and weights of farm machinery and delivery vehicles have increased dramatically. Coal trucks, grain and feed trucks, milk trucks, fertilizer applicators, and tractors can easily weigh anywhere from 5 to 40 tons or more. While the maximum legal vehicle weight on any Ohio road is 40 tons, there are bridges on many county road systems which are rated to carry 12-15 tons of total weight per vehicle. Some bridges have ratings as low as 5-6 tons. Bridges which have restricted ratings are posted and vehicles are required to either reduce their loads or detour around the bridge. In reality, most heavy vehicle drivers pay little heed to bridge postings because of the costs involved in reducing loads or detouring, and because bridge postings are rarely enforced.

Identifying Bridge Deficiencies

Bridge inadequacies fall into two categories, "structural deficiencies" and "functional deficiencies." Structural deficiencies weaken a bridge and often necessitate legal-load-limit reductions. ODOT lists the following examples of common structural deficiencies:

- Structural members of an older bridge are sound but too small for today's heavier traffic loads.

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- Main bridge members are deteriorated so badly as to reduce load capacity.
- Main bridge members are damaged by vehicle collision, reducing strength.
- Piers or abutments are weakened by weathering or overloads.
- Bridge footings are undermined by changes in stream flow.

Functional deficiencies are those factors such as original bridge design and bridge approach which do not meet modern traffic volume or safety and other standards. Common functional deficiencies include:

- A roadway is too narrow for modern traffic.
- The horizontal or vertical alignment of a bridge and the approaching roadway is poor.
- The clearance above or below a bridge is insufficient for passage of modern traffic.
- Poor waterflow under a bridge causes flooding upstream.

ODOT's Bridge Sufficiency Rating System

Information on structural and functional deficiencies is useful for identifying the kind of attention a bridge requires. However, to denote the overall serviceability of Ohio bridges, ODOT employs a "sufficiency" rating system. Under this system each bridge is assigned a rating between 0 and 150. This rating is interpreted as a "percentage of sufficiency". Generally, a bridge with a sufficiency rating less than 50 percent is considered as needing replacement. Bridges with a rating 50 through

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80 percent need some level of rehabilitation. Ratings over 80 and under 100 percent are given to bridges which require cosmetic repairs such as painting and routine deck maintenance. The Ohio Bridge Inventory

ODOT maintains a computerized inventory of all bridges in Ohio which are 10 feet or more in overall length. Tables 2, 3, 4, 5, and 6 are summaries of some of the data contained in this file.

Table 2 categorizes Ohio bridges by county and decade of original construction or major reconstruction. Total figures for the state as a whole indicate that 26.7 percent of all Ohio bridges are more than fifty years old. This figure alone does not mean that all of these bridges are necessarily unsafe. However, older bridges are more likely to require major expenditures than newer bridges. Bridge age is one factor which ODOT and Ohio county engineers consider when estimating funding needs for future bridge programs.

Table 3 indicates the number of functionally obsolete and structurally deficient bridges in each Ohio county. These figures are useful in identifying the extent and the nature of bridge problems in each county, but this method of appraisal also tends to be highly subjective. Ohio law does not require a bridge inspector to have an engineering degree. ODOT points out that the lack of this job requirement has resulted in different levels of expertise among bridge inspectors. When bridge assessments must be made on a basis of personal judgment, the report of an experienced inspector with an engineering de-

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gree can vary greatly with a report done by an inspector with little or no experience or education. In the latter case, ODOT suspects it is simply receiving "prettiness" reports. Bridge deficiency numbers should therefore be placed in the perspective that they are only part of evaluating the needs of Ohio bridge programs.

Table 4 lists the number of bridges in each county according to maintenance responsibility. The final totals for the state as a whole reveal that 66.3 percent of Ohio bridges are maintained by the county. ODOT maintains 28 percent of Ohio bridges - less than half the number of bridges maintained by the county. These figures indicate that any proposal to benefit Ohio bridge programs should give high consideration to the role of the county.

Table 5 gives further evidence that it is the plight of county bridge programs that probably has not received sufficient attention. The percent of maximum legal load rating for bridges, according to maintenance agency, reveals that bridges maintained by ODOT are generally rated higher than bridges maintained by the counties. This is not to say that ODOT does not have serious problems in its bridge program. It is, nevertheless, necessary to consider that such remedies as increasing the gasoline tax contributes to ODOT bridge programs much more than they contribute to county bridge programs.

County revenues did increase significantly in 1979 when vehicle registration fees increased from \$10 to \$20 per vehicle. But like the gasoline tax, the total revenues from vehicle regis-

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trations are primarily fixed according to the number of registered vehicles in a county. Effective solutions to county road and bridge problems must deal with this fixed-revenue aspect.

Table 6 is a summary of county bridge statistics, including the number of bridges in each county needing replacement or rehabilitation. The total cost of undertaking these programs is estimated to be 2.2 billion dollars to replace or rehabilitate nearly 15,000 bridges in the state of Ohio. Table 6 was taken from ODOT's bridge inventory by the Ohio County Engineers Association and published as part of a report titled, "Report on County Bridges", (May, 1981).

Suggested Solutions

From interviews and literature on road and bridge issues the following suggestions are offered:

1) Revamp the Gas Tax Formula

It is recommended that the current fixed cents per gallon gasoline tax be changed to a fixed percentage of the total dollar gasoline sale. This would end the current situation where road and bridge revenues are dependent on the level of gasoline consumption.

2) Increase Federal Aid but Request More Autonomy

A great deal of federal matching highway funds have been lost in the past because Ohio could not come up with the state's required 20 percent share. Efforts are being made to lower the states' share to 10 percent of total funding. It is recommended that efforts be made to curb Ohio's dependence on federal dollars. When the state accepts federal monies, it accepts the federal regulations that each road and bridge project must follow. In adhering to federal specifications and by delaying projects until federal funds are secured, the cost of a project can easily double and even triple. If the federal government granted rebates to the states on federal gasoline taxes, federal funds would be received without incurring an expensive obligation to comply with federal standards.

3) Use Present Funds More Efficiently

This can be done by changing the 1962 law which requires all bridge projects costing more than \$40,000 to be let to contract.

4) Consider Road Abandonment

Much of today's rural road system was fashioned during the horse and wagon days when travel times were longer and farms were smaller. Some agricultural economists claim that with larger farms and faster traveling times, many miles of rural roads could be eliminated. However, the legal implications of road abandonment would seem to make this alternative unrealistic at least in the short-term. More detailed analysis of the costs and benefits of road and bridge abandonment in Ohio is needed.

5) Increase Vehicle Registration Revenues

This could be accomplished by assessing different fees on vehicles, according to a vehicle's "book" value. Compared to other states, Ohio's flat \$20 registration fee is very low for vehicles with high book values.

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6) Increase Efforts to Enforce Vehicle Weight Restrictions

More portable scales are needed to make enforcement effective. It is imperative that Ohio protect its road and bridge investment from the damaging effects of overweight vehicles.

7) Conduct Analysis on Whether Heavy Vehicles Should Pay More

A Columbus, Ohio-based group called Motorists of Ohio for Vehicular Equity (MOVE) maintains that a study is needed to determine whether heavy vehicles should pay more to maintain highways. MOVE points out that Ohio's axle-mile tax on trucks has remained unchanged ever since it was established in 1953. The tax varies from a half cent to 2.5 cents per mile, depending on the number of axles on a truck. It is recommended that the heavy vehicle tax structure be reviewed.

8) Conduct Further Analysis

Additional study is needed on road and bridge abandonment, financing, and vehicle load limits. It is recommended that federal, state, and local authorities work to better coordinate regulation and planning efforts. 0

| Item | 1973 | 1977 | 1980 | Increa se From 1973 to 1980 | Percent Increase From 1973 to 1980 |
|----------------|----------------|----------------|----------------|--|---|
| Gasoline | .2185 per gal. | .5050 per gal. | 1.086 per gal. | .79 | 361% |
| Gravel #67 | 2.10 per ton | 2.60 per ton | 4.75 per ton | 2.65 per ton | 126% |
| Limestone | 2.80 per ton | 3.20 per ton | 5.85 per ton | 3.05 per ton | 109% |
| Bituminous Mix | 7.00 per ton | 13.50 per ton | 24.00 per ton | 17.00 per ton | 243% |
| Liquid Asphalt | .1512 per gal. | .3559 per gal. | .90 per gal. | .7488 per gal. | 495% |
| Salt | 11.00 per ton | 12.98 per ton | 19.36 per ton | 8.36 per ton | 76% |
| Cinders | 1.10 per ton | 1.60 per ton | 2.50 per ton | 1.40 per ton | 127% |
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Table 1: A Cost Comparison for Selected Items Purchased By County Engineers, Ohio, 1973, 1977 and 1980

Source: County Engineers Office of Wayne County, Ohio

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Table 2: Total Number of Bridges With Original Construction or Major Reconstruction by Decades for Each County and the State of Ohio, 1900-1980

| County | Before 1900 | 1901- 1910 | 1911- 1920 | 1921- 1930 | 1931- 1940 | 1941- 1950 | 1951- 1960 | 1961- 1970 | 1971- 1980 | Total |
|------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|-------|
| Adams | 14 | 2 | 13 | 56 | 53 | 55 | 82 | 95 | 50 | 420 |
| Allen | 40 | 15 | 21 | 44 | 43 | 32 | 101 | 130 | 112 | 538 |
| Ashland | 79 | 2 | 39 | 22 | 37 | 9 | 65 | 61 | 43 | 357 |
| Ashtabula | 129 | 13 | 10 | 33 | 87 | 38 | 52 | 60 | 40 | 462 |
| Athens | 10 | 5 | 8 | 50 | 89 | 51 | 58 | 81 | 53 | 405 |
| Auglaize | 4 | 29 | 19 | 36 | 83 | 24 | 105 | 100 | 90 | 490 |
| Belmont | 205 | 5 | 10 | 46 | 48 | 19 | 36 | 46 | 56 | 471 |
| Brown | - | 2 | 1 | 33 | 37 | 46 | 119 | 71 | 50 | 359 |
| Butler | 5 | 6 | 57 | 83 | 106 | 37 | 57 | 81 | 97 | 529 |
| Carroll | 7 | 5 | 3 | 25 | 21 | 45 | 26 | 59 | 23 | 214 |
| Champaign | 5 | 26 | 9 | 24 | 83 | 15 | 57 | 55 | 43 | 317 |
| Clark | - | - | 5 | 20 | 13 | 20 | 57 | 93 | 53 | 261 |
| Clermont | 40 | 26 | 40 | 38 | 55 | 16 | 66 | 151 | 110 | 542 |
| Clinton | 180 | 5 | 6 | 13 | 43 | 18 | 28 | 61 | 47 | 401 |
| Columbiana | 20 | 5 | 30 | 94 | 52 | 41 | 80 | 102 | 72 | 496 |
| Coshocton | 135 | 1 | 6 | 18 | 26 | 15 | 44 | 90 | 99 | 434 |
| Crawford | 44 | 17 | 10 | 41 | 23 | 12 | 41 | 78 | 83 | 349 |
| Cuyahoga | 33 | 23 | 45 | 126 | 133 | 33 | 107 | 202 | 179 | 881 |
| Darke | 149 | 25 | 12 | 53 | 71 | 35 | 43 | 76 | 66 | 530 |
| Defiance | 8 | 27 | 84 | 46 | 18 | 7 | 28 | 101 | 41 | 360 |
| Delaware | 6 | 4 | 37 | 93 | 32 | 20 | 75 | 55 | 86 | 409 |
| Erie | 12 | 1 | 6 | 14 | 35 | 15 | 78 | 67 | 44 | 272 |
| Fairfield | 83 | 2 | 55 | 44 | 26 | 25 | 56 | 39 | 59 | 389 |
| Fayette | 4 | 2 | 2 | 20 | 24 | 7 | 72 | 123 | 71 | 325 |

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| County | Before 1900 | 1901- 1910 | 1911- 1920 | 1921- 1930 | 1931- 1940 | 1941- 1950 | 1951- 1960 | 1961- 1970 | 1971- 1980 | Total |
|-----------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|-------|
| Franklin | 16 | 2 | 22 | 35 | 78 | 50 | 114 | 378 | 238 | 933 |
| Fulton | | 6 | 19 | 25 | 24 | 18 | 59 | 40 | 48 | 239 |
| Gallia | , 15 | - | 2 | 73 | 25 | 37 | 63 | 105 | 40 | 360 |
| Geauga | 31 | - | 2 | 28 | 32 | 21 | 51 | 59 | 48 | 272 |
| Greene | 9 | 10 | 27 | 26 | 64 | 71 | 66 | 64 | 105 | 442 |
| Guernsey | 15 . | 11 | 21 | 43 | 71 | 99 | 69 | 192 | 46 | 567 |
| Hamilton | 41 | 12 | 55 | 93 | 77 | 34 | 99 | 178 | 196 | 785 |
| Hancock | 54 | 3 | 4 | 60 | 81 | 72 | 162 | 107 | 70 | 613 |
| Hardin | 17 | - | 32 | 34 | 41 | 16 | 61 | 103 | 86 | 390 |
| Harrison | 114 | - | - | 15 | 17 | 16 | 26 | 23 | 20 | 231 |
| Henry | 19 | 7 | 33 | 99 | 42 | 53 | 45 | 100 | 72 | 470 |
| Highland | 14 | 11 | 32 | 39 | 38 | 40 | 77 | 79 | 107 | 437 |
| Hocking | 4 | 1 | 2 | 18 | 44 | 71 | 147 | 102 | 38 | 427 |
| Holmes | 2 | - | 9 | 52 | 24 | 21 | 113 | 136 | 63 | 420 |
| Huron | 78 | 3 | 9 | 24 | 49 | 39 | 78 | 145 | 118 | 543 |
| Jackson | 21 | 3 | 1 | 29 | 40 | 23 | 66 | 75 | 38 | 296 |
| Jefferson | 167 | 5 | 9 | 49 | 16 | . 7 | 28 | 43 | 33 | 357 |
| Knox | 35 | 16 | 14 | 24 | 64 | 32 | 58 | 48 | 93 | 384 |
| Lake | - | - | 4 | 17 | 14 | 12 | 84 | 95 | 16 | 242 |
| Lawrence | 110 | 2 | 2 | 28 | 31 | . 29 | 32 | 57 | 40 | 331 |
| Licking | 123 | 6 | . 6 | 22 | 34 | 53 | 75 | 97 | 101 | 517 |
| Logan | 19 | 52 | 24 | 29 | 25 | 37 | 56 | 104 | 59 | 405 |
| Lorain | 43 | 7 | 20 | 33 | 57 | 14 | 124 | 163 | 50 | 511 |
| Lucas | 6 | 2 | 13 | 91 | 56 | 20 | 88 | 118 | 78 | 472 |

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| County | Before 1900 | 1901- 1910 | 1911- 1920 | 1921- 1930 | 1931- 1940 | 1941- 1950 | 1951- 1960 | 1961- 1970 | 1971- 1980 | Total |
|------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|-------|
| Madison | 8 | 2 | 7 | 25 | 30 | 20 | 98 | 85 | 36 | 311 |
| Mahoning | 17 | 5 | 15 | 73 | 130 | 41 | 124 | 118 | 53 | 576 |
| Marion | 117 | 1 | 2 | 14 | 40 | 14 | 21 | 95 | 74 | 378 |
| Medina | 37 | - | 2 | 31 | 30 | 17 | 91 | 80 | 32 | 320 |
| Meigs | - | - | 9 | 61 | 49 | 28 | 62 | 61 | 36 | 306 |
| Mercer | 104 | 77 | 23 | 10 | 17 | 36 | 56 | 66 | 51 | 440 |
| Miami | _ | 1 | 14 | 50 | 50 | 16 | 175 | 96 | 56 | 458 |
| Monroe | 82 | - | - | 19 | 23 | 16 | 33 | 22 | 5 | 200 |
| Montgomery | 27 | 5 | 36 | 50 | 106 | 85 | 184 | 234 | 78 | 805 |
| Morgan | 194 | 9 | 2 | 19 | 19 | 14 | 25 | 24 | 5 | 311 |
| Morrow | 6 | 3 | 5 | 6 | 22 | 23 | 82 | 96 | 76 | 319 |
| Muskingum | 376 | 5 | 9 | 31 | 34 | 38 | 44 | 68 | 29 | 634 |
| Noble | 129 | - | 1 | 28 | 25 | 21 | 52 | 60 | 21 | 337 |
| 0ttawa | - | 1 | 1 | 6 | 38 | 19 | 39 | 38 | 40 | 182 |
| Paulding | 33 | 22 | 24 | 12 | 38 | 29 | 30 | 29 | 48 | 265 |
| Perry | 121 | 15 | 8 | 24 | 59 | 15 | 24 | 29 | 23 | 318 |
| Pickaway | 119 | 7 | 3 | 27 | 31 | 14 | 41 | 38 | 20 | 300 |
| Pike | 1 | - | 4 | 6 | 32 | 41 | 62 | 62 | 52 | 260 |
| Portage | 5 | 8 | 5 | 15 | 67 | 34 | 51 | 64 | 39 | 288 |
| Preble | 169 | 7 | 12 | 36 | 41 | 12 | 33 | 47 | 27 | 384 |
| Putnam | 46 | 9 | 11 | 7 | 18 | 17 | 103 | 78 | 80 | 369 |
| Richland | 142 | 3 | 2 | 18 | 100 | 36 | 81 | 122 | 83 | 587 |
| Ross | 54 | 17 | 41 | 66 | 82 | 44 | 75 | 64 | 141 | 584 |
| Sandusky | 3 | 1 | 7 | 43 | 41 | 18 | 149 | 79 | 53 | 394 |

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Table 2, Cont'd

| County | Before 1900 | 1901- 1910 | - 1911 1920 | - 1921 1930 | - 1931 1940 | - 1941 1950 | - 1951 1960 | - 1961 1970 | - 1971 1980 | - Total |
|---------------------|----------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|------------|
| Scioto | 4 | 2 | 4 | 47 | 317 | 108 | 74 | 50 | 64 | 670 |
| Seneca | 16 | 4 | 35 | 71 | 111 | 92 | 85 | 76 | 65 | 558 |
| Shelby | 54 | 4 | 20 | 44 | 42 | 8 | 46 | 81 | 103 | 403 |
| Stark | 41 | 5 | 11 | 56 | 57 | 57 | 159 | 92 | 43 | 521 |
| Summit | 7 | - | 3 | 56 | 98 | 30 | 99 | 155 | 95 | 543 |
| Trumbull | 14 | 3 | , 14 | 41 | 80 | 42 | 117 | 108 | 72 | 491 |
| Tuscarawas | 20 | 15 | 17 | 55 | 43 | 31 | 51 | 143 | 50 | 425 |
| Union | 16 | 5 | 13 | 40 | 16 | 7 | 32 | 71 | 40 | 240 |
| Van Wert | 30 | 3 | 10 | 49 | 84 | 43 | 50 | 103 | 64 | 436 |
| Vinton | 9 | 6 | 19 | 29 | 80 | 30 | 91 | 56 | 24 | 344 |
| Warren | 6 | 24 | 33 | 70 | 83 | 20 | 59 | 106 | 104 | 505 |
| Washington | 30 | 27 | 17 | 51 | 34 | 30 | 77 | 87 | 49 | 402 |
| Wayne | 20 | 4 | 25 | 96 | 120 | 46 | 96 | 128 | 69 | 604 |
| Williams | 17 | 7 | 49 | 7 | 20 | 18 | 68 | 48 | 37 | 271 |
| Wood | 34 | 22 | 29 | 74 | 80 | 33 | 107 | 135 | 59 | 573 |
| Wyandot | 44 | 9 | 5 | 17 | 26 | 25 | 43 | 91 | 102 | 362 |
| TOTALS | 4,317 | 745 | 1,437 | 3,538 | 4,695 | 2,788 | 6,363 | 7,973 | 5,668 | 37,529 |
| Percent of Total | 11.5% | 2.0% | 3.8% | 9.4% | 12.5% | 7.4% | 17.0% | 21.2% | 15.1% | 100% |

Source: Ohio Department of Transportation

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| County | Number of Bridges | Number Function- ally Obsolete | Number Structur- ally Deficient | County | Number of Bridges | Number Function- ally Obsolete | Number Structur- ally Deficient |
|------------|-------------------------|---|--|---------------------|-------------------------|---|--|
| Madison | 311 | 38 | 12 | Scioto | 670 | 217 | 138 |
| Mahoning | 576 | 38 | 50 | Seneca | 558 | 1 | 63 |
| Marion | 378 | 1 | 9 | Shelby | 403 | 3 | 90 |
| Medina | 320 | 15 | 11 | Stark | 521 | 15 | 29 |
| Meigs | 306 | 19 | 6 | Summit | 543 | 11 | 7 |
| Mercer | 440 | 105 | 33 | Trumbull | 491 | 13 | 23 |
| Miami | 458 | 31 | 20 | Tuscarawas | 425 | 46 | 45 |
| Monroe | 200 | 66 | 3 | Union | 240 | 1 | 26 |
| Montgomery | 805 | 13 | 36 | Van Wert | 436 | 19 | 54 |
| Morgan | 311 | 45 | 126 | Vinton | 344 | 32 | 27 |
| Morrow | 319 | 7 | 14 | Warren | 505 | 7 | 9 |
| Muskingum | 634 | 85 | 129 | Washington | 402 | 17 | 35 |
| Noble | 337 | 100 | 18 | Wayne | 604 | 33 | 114 |
| Ottawa | 182 | 3 | 24 | Williams | 271 | 2 | 38 |
| Paulding | 265 | 13 | 41 | Wood | 573 | 119 | 35 |
| Perry | 318 | 27 | 60 | Wyandot | 362 | 18 | 51 |
| Pickaway | 300 | 8 | 10 | - | | | |
| Pike | 260 | 4 | 5 | TOTALS | 37,529 | 2,857 | 3,741 |
| Portage | 288 | 55 | 19 | Percent of Total | | 7.6% | 10.0% |
| Preble | 384 | 5 | 18 | 10041 | | | |
| Putnam | 369 | 10 | 12 | | | | |
| Richland | 587 | 55 | 83 | Source: 0 | hio Depar | tment of | |
| Ross | 584 | 25 | 52 | Т | ransporta | tion | |
| Sandusky | 394 | 6 | 39 | | | | |

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|------------|-----------|------|-------|---------|---------|----------|-------------|---------|--------|
| Country | Number of | ODOT | Other | Courter | City+ | Fed. | חח | Other | Combi- |
| County | Bridges | 0001 | State | County | Local | Agency | <u>K.K.</u> | Private | nation |
| Adams | 420 | 135 | | 285 | | | | | |
| Allen | 538 | 110 | | 415 | 11 | | | 2 | |
| Ashland | 357 | 160 | | 179 | 13 | 1 | 3 | | 1 |
| Ashtabula | 462 | 166 | | 278 | 13 | | 1 | 2 | 2 |
| Athens | 405 | 157 | | 233 | 10 | | 1 | | 4 |
| Auglaize | 490 | 101 | | 389 | | | | | |
| Belmont | 471 | 152 | | 314 | 2 | | 2 | | 1 |
| Brown | 359 | 122 | | 235 | | | | | 2 |
| Butler | 529 | 87 | | 392 | 45 | | 3 | | 2 |
| Carroll | 214 | 55 | | 158 | | | 1 | | |
| Champaign | 317 | 93 | | 223 | | | | | 1 |
| Clark | 261 | 150 | | 82 | 26 | | 2 | | 1 |
| Clermont | 542 | 147 | | 393 | | | | | 2 |
| Clinton | 401 | 97 | | 304 | | | | | |
| Columbiana | 496 | 140 | | 327 | 29 | | | | |
| Coshocton | 434 | 87 | | 346 | | 1 | | | |
| Crawford | 349 | 86 | | 245 | 14 | | | | 4 |
| Cuyahoga | 881 | 246 | 28 | 315 | 263 | | 23 | | 6 |
| Darke | 530 | 119 | | 410 | | | | | 1 |
| Defiance | 360 | 58 | | 301 | 1 | | | | |
| Delaware | 409 | 100 | | 299 | 10 | | | | |
| Erie | 272 | 80 | 41 | 144 | 2 | | 1 | | 4 |
| Fairfield | 389 | 94 | | 283 | 12 | | | | |
| Fayette | 325 | 98 | | 218 | . 9 | · | | | |

Table 4: Total Number of Bridges for Each Maintenance Responsibility and County, 1981

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|-----------|----------------------|------|----------------|--------|----------------|----------------|--------|------------------|------------------|
| County | Number of Bridges | ODOT | Other State | County | City+ Local | Fed. Agency | R.R. | Other Private | Combi- nation |
| Franklin | 933 | 358 | 3 | 407 | 142 | | 6 | 7 | 10 |
| Fulton | 239 | 34 | 21 | 178 | 4 | | | | 2 |
| Gallia | 360 | 134 | | 226 | | | | | |
| Geauga | 272 | 66 | | 202 | 4 | | | | |
| Greene | 442 | 95 | | 344 | 2 | | | 1 | |
| Guernsey | 567 | 171 | | 390 | 2 | | 4 | | |
| Hamilton | 785 | 263 | | 480 | 34 | | 3 | 2 | 3 |
| Hancock | 613 | 141 | | 470 | 2 | | | | |
| Hardin | 390 | 55 | | 335 | | | | | |
| Harrison | 231 | 71 | | 152 | 3 | 1 | 1 | 2 | 1 |
| Henry | 470 | 89 | | 371 | 10 | | | | |
| Highland | 437 | 132 | | 300 | | | 1 | | 4 |
| Hocking | 427 | 132 | | 292 | 2 | | 1 | | |
| Holmes | 420 | 94 | | 325 | | | 1 | | |
| Huron | 543 | 104 | | 419 | 17 | | 2 | | 1 |
| Jackson | 296 | 116 | | 167 | 13 | | | | |
| Jefferson | 357 | 87 | | 264 | 6 | | | | |
| Knox | 384 | 106 | | 278 | | | | | |
| Lake | 242 | 75 | | 147 | 12 | | 2 | | 6 |
| Lawrence | 331 | 128 | | 197 | 4 | | | 1 | 1 |
| Licking | 517 | 147 | | 321 | 48 | | | | 1 |
| Logan | 405 | 113 | | 290 | | | | | 2 |
| Lorain | 511 | 133 | 49 | 272 | 46 | | 3 | | 8 |
| Lucas | 472 | 107 | 26 | 178 | 141 | | 10 | | 10 |

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Table 4, Cont'd

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| | | | | MAI | NTENANCH | E RESPON | SIBILIT | ſY | |
|------------|-----------|-------|-------|--------|----------|----------|-------------|---------|--------|
| C t | Number of | 0.00 | Other | 0 | City+ | Fed. | D D | Other | Combi- |
| County | Bridges | _0001 | State | County | Local | Agency | <u>K.K.</u> | Private | nation |
| Madison | 311 | 123 | | 188 | | | | | |
| Mahoning | 576 | 133 | 47 | 323 | 70 | | | 2 | 1 |
| Marion | 378 | 105 | | 270 | 3 | | | | |
| Medina | 320 | 176 | | 135 | | | | | 9 |
| Meigs | 306 | 115 | | 191 | | | | | |
| Mercer | 440 | 120 | | 319 | | | | | 1 |
| Miami | 458 | 123 | | 332 | | | 1 | 1 | 1 |
| Monroe | 200 | 93 | | 107 | | | | | |
| Montgomery | 805 | 168 | | 566 | 67 | | | 1 | 3 |
| Morgan | 311 | 58 | | 252 | | | | 1 | |
| Morrow | 319 | 99 | | 220 | | | | | |
| Muskingum | 634 | 167 | | 460 | 7 | | | | |
| Noble | 337 | 170 | | 167 | | | | | |
| Ottawa | 182 | 52 | 4 | 121 | 4 | | | | 1 |
| Paulding | 265 | 52 | | 213 | | | | | |
| Perry | 318 | 100 | | 218 | | | | | |
| Pickaway | 300 | 109 | | 191 | | | | | |
| Pike | 260 | 92 | | 167 | | | 1 | | |
| Portage | 288 | 102 | 23 | 143 | 3 | | 17 | | |
| Preble | 384 | 129 | | 254 | | | | | 1 |
| Putnam | 369 | 63 | | 306 | | | | | |
| Richland | 587 | 134 | | 410 | 37 | | | | 6 |
| Ross | 584 | 147 | | 428 | 2 | | 6 | | 1 |
| Sandusky | 394 | 88 | 66 | 230 | 9 | | 1 | | |

Table 4, Con't

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| | | | | MA | INTENAN | CE | RESPON | SIBILI | TY | |
|---------------------|-----------|--------|-------|--------|---------|----|--------|--------|---------|---------------------------------------|
| | Number of | | Other | | City+ | | Fed. | | Other | Combi- |
| County | Bridges | ODOT | State | County | Local | A | lgency | R.R. | Private | nation |
| Scioto | 670 | 150 | | 508 | 9 | | | 3 | · | |
| Seneca | 558 | 92 | 1 | 453 | 12 | | | | | |
| Shelby | 403 | 83 | | 303 | 15 | | | | | 2 |
| Stark | 521 | 169 | | 320 | 28 | | | 4 | | |
| Summit | 543 | 176 | 13 | 251 | 101 | | | | | 2 |
| Trumbull | 491 | 202 | 28 | 254 | 1 | | 1 | 5 | | |
| Tuscarawas | 425 | 160 | | 251 | 12 | | 1 | | | 1 |
| Union | 240 | 105 | | 135 | | | | | | |
| Van Wert | 436 | 87 | | 339 | 10 | | | | | |
| Vinton | 344 | 101 | | 243 | | | | | | |
| Warren | 505 | 104 | | 395 | 4 | | | | | 2 |
| Washington | 402 | 140 | | 254 | 5 | | | 2 | 1 | |
| Wayne | 604 | 146 | | 449 | 3 | | | | | 6 |
| Williams | 271 | 70 | 24 | 142 | 1 | | | | | 34 |
| Wood | 573 | 165 | 39 | 359 | 7 | | | | | 3 |
| Wyandot | 362 | 102 | | 253 | 7 | | | | | |
| | | | | | | | | | | · · · · · · · · · · · · · · · · · · · |
| TOTALS | 37,529 | 10,561 | 413 | 24,883 | 1,369 | | 5 | 121 | 23 | 154 |
| Percent of Total | | 28.1% | 1.1% | 66.3% | 3.6% | | - | _ | | - |

Source: Ohio Department of Transportation

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Table 5

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Total Number of Bridges by Percent of Legal Rating and Maintenance Agency for Each County of Ohio, 1981

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| | | | PERCENT OF MAX | IMUM LEGAL LOAD | |
|-----------|--------------------|-------|------------------------|--|--------|
| County | Main Agency | < 50% | \geq 50%, \leq 80% | > 80%, < 100% | ≥ 100% |
| Adams | ODOT | | 14 | 5 | 116 |
| | Other State Agency | | | | |
| | County | 31 | 50 | | 204 |
| | City & Local | | | | |
| | Federal | | | | |
| | Railroad | | | | |
| | Other Private | | | | |
| | Combination | | | · | |
| Allen | ODOT | | 2 | | 1.08 |
| | Other State Agency | | | | |
| | County | 25 | 4 | 6 | 380 |
| | City & Local | | 3 | | 8 |
| | Federal | | | | |
| | Railroad | | | | |
| | Other Private | | | | 2 |
| | Combination | | | | |
| Ashland | ODOT | | 1 | | 159 |
| | Other State Agency | | | | |
| | County | 55 | 35 | 2 | 87 |
| | City & Local | | 2 | | 11 |
| | Federal | | | | 1 |
| | Railroad | 1 | 2 | | - |
| | Other Private | | | | |
| | Combination | | | | 1 |
| Ashtabula | ODOT | | | | 166 |
| | Other State Agency | | | | |
| | County | 23 | 148 | 7 | 100 |
| | City & Local | 1 | 1 | | 11 |
| | Federal | | | | |
| | Railroad | 1 | | | |
| | Other Private | | | ······································ | 2 |
| | Combination | 1 | | 1 | |

Table 5:

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Total Number of Bridges by Percent of Legal Rating and Maintenance Agency for Each County of Ohio, 1981

| | - | | PERCENT OF MAX | IMUM LEGAL LOAD | |
|----------|--------------------|-------|----------------|-----------------|------|
| County | Main Agency | < 50% | ≥ 50%, ≤ 80% | > 80%, < 100% | ≥ 10 |
| Athens | OD OT | | 3 | 1 | 15 |
| | Other State Agency | | | | |
| | County | 62 | 12 | 18 | 14 |
| | City & Local | | | | · 1 |
| | Federal | | | | |
| | Railroad | | | | |
| | Other Private | | | | |
| | Combination | | | | |
| Auglaize | ODOT | | | 1 | 1(|
| | Other State Agency | | | | |
| | County | 34 | 2 | 52 | 3(|
| | City & Local | | | | |
| | Federal | | | | |
| | Railroad | | | | |
| | Other Private | | | | |
| | Combination | | | | |
| Belmont | ODOT | | 5 | 2 | 14 |
| | Other State Agency | | · | | |
| | County | 219 | 59 | | |
| | City & Local | | | | |
| | Federal | | | | |
| | Railroad | | | | |
| | Other Private | | | | |
| | Combination | | | | |
| Brown | ODOT | 2 | 11 | 4 | 1(|
| | Other State Agency | | | | |
| | County | 14 | 49 | 6 | 16 |
| | City & Local | | | | |
| | Fede ral | | | · | |
| | Railroad | · | | | |
| | Other Private | | | | |
| | Combination | | | | |

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Table 5: Total Number of Bridges by Percent of Legal Rating and Maintenance Agency for Each County of Ohio, 1981

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| | · · | PERCENT OF MAXIMUM LEGAL LOAD | | | | | |
|-----------|--------------------|-------------------------------|----------------------|---------------------------------------|-------|--|--|
| County | Main Agency | < 50% | ≥ 50% , ≤ 80% | > 80%, < 100% | ≥ 100 | | |
| Butler | ODOT | | 1 | | 86 | | |
| | Other State Agency | | | | | | |
| | County | 30 | 14 | | 348 | | |
| | City & Local | 2 | 3 | · · · · · · · · · · · · · · · · · · · | 4(| | |
| | Federal | | | | | | |
| | Railroad | 2 | | | | | |
| | Other Private | | | | | | |
| | Combination | | | | | | |
| Carroll | ODOT | | | 2 | 53 | | |
| | Other State Agency | | | | | | |
| | County | 14 | 1 | 2 | 141 | | |
| | City & Local | | | | | | |
| | Federal | | | | | | |
| | Railroad | 1 | | | | | |
| | Other Private | | ······ | | | | |
| | Combination | | | | | | |
| Champaign | ODOT | | 1 | 1 | 9 | | |
| | Other State Agency | | | | | | |
| | County | 26 | | | 19 | | |
| | City & Local | | | | | | |
| | Federal | | | | | | |
| | Railroad | | | · · · · | | | |
| | Other Private | | | | | | |
| | Combination | | | | | | |
| Clark | ODOT | | 1 | | 14 | | |
| | Other State Agency | | | | | | |
| | County | 17 | 19 | | 4 | | |
| | City & Local | 3 | | | 2 | | |
| | Federal | | | <u> </u> | | | |
| | Railroad | | | | | | |
| | Other Private | | | | | | |
| | Combination | | | | | | |
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Total Number of Bridges by Percent of Legal Rating and Maintenance Agency for Each County of Ohio, 1981

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| | - | | | | |
|---------------------------------------|--------------------|--------|---------------|---------------|-----------|
| County | Main Agency | < 50% | ≥ ′50%, ≤ 80% | > 80%, < 100% | ≥ 100 |
| Clermont | ODOT | | 1 | 2 | 144 |
| | Other State Agency | | | | |
| | County | 134 | 96 | | 16 |
| | City & Local | | | | |
| | Federal | | | | |
| | Railroad | | | | |
| | Other Private | | | | |
| | Combination | | | | |
| Clinton | ODOT | | 3 | 5 | |
| | Other State Agency | | | | |
| | County | 24 | 65 | 14 | 201 |
| | City & Local | | | | |
| | Federal | ······ | | | |
| | Railroad | | | | |
| | Other Private | | | | <u></u> |
| | Combination | | | | |
| Columbiana | ODOT | ····· | 3 | 1 | 136 |
| | Other State Agency | | | | |
| | County | 233 | 48 | 2 | |
| | City & Local | 12 | 4 | | 13 |
| | Federal | | | | |
| | Railroad | | | | |
| | Other Private | | | | - <u></u> |
| | Combination | | | | |
| 0 1 | | | | | |
| Coshocton | ODOT | | 3 | 3 | 81 |
| | Other State Agency | | | | <u>,</u> |
| | County | 153 | 79 | | 114 |
| | City & Local | ····· | | | |
| | Federal | | | · | 1 |
| · · · · | Railroad | | | | |
| · · · · · · · · · · · · · · · · · · · | | | | | |

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Total Number of Bridges by Percent of Legal Rating and Maintenance Agency for Each County of Ohio, 1981

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| | | PERCENT OF MAXIMUM LEGAL LOAD | | | | | |
|----------|--------------------|-------------------------------|--------------|---------------|------------|--|--|
| County | Main Agency | < 50% | ≥ 50%, ≤ 80% | > 80%, < 100% | <u>≥</u> 1 | | |
| Crawford | ODOT | | | 1 | | | |
| | Other State Agency | - | | | | | |
| | County | . 34 | 48 | 5 | 1 | | |
| | City & Local | 2 | | | | | |
| | Federal | | | | | | |
| | Railroad | | | | | | |
| | Other Private | | | | | | |
| | Combination | | 2 | | | | |
| Cuyahoga | ODOT | | | | 2 | | |
| | Other State Agency | | | | | | |
| | County | 28 | 35 | 2 | 2 | | |
| | City & Local | 30 | 10 | 1 | 2 | | |
| | Federal | | | | | | |
| | Railroad | 1 | | 1 | | | |
| | Other Private | | | | | | |
| | Combination | | 2 | ۰ | | | |
| Darke | ODOT | | 1 | 1 | | | |
| | Other State Agency | | | | | | |
| | County | 47 | 116 | 13 | 2 | | |
| | City & Local | | | | | | |
| | Federal | | | | | | |
| | Railroad | | | | | | |
| | Other Private | | | | | | |
| | Combination | | | · | | | |
| Defiance | ODOT | | | | | | |
| | Other State Agency | | | | | | |
| | County | 241 | 24 | 2 | | | |
| | City & Local | | | | | | |
| | Fede ral | | | | | | |
| | Rail roa d | | | | | | |
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Total Number of Bridges by Percent of Legal Rating and Maintenance Agency for Each County of Ohio, 1981

| | - | PERCENT OF MAXIMUM LEGAL LOAD | | | | | |
|-----------|--------------------|-------------------------------|----------------------|---------------|-------|--|--|
| County | Main Agency | < 50% | ≥ 50% , ≤ 80% | > 80%, < 100% | ≥ 100 | | |
| Delaware | ODOT | | | 1 | 9 | | |
| | Other State Agency | | | | | | |
| | County | 15 | 38 | 14 | 23 | | |
| | City & Local | · | | | 1 | | |
| | Federal | | | | | | |
| | Railroad | | | | | | |
| | Other Private | | | | | | |
| | Combination | | | | | | |
| Erie | ODOT | | | | | | |
| | Other State Agency | | | | 4 | | |
| | County | 7 | | | 13 | | |
| | City & Local | | | | | | |
| | Federal | | | | | | |
| | Railroad | | | 1 | | | |
| | Other Private | | | | | | |
| | Combination | | | | | | |
| Fairfield | ODOT | | 1 | 6 | 87 | | |
| | Other State Agency | | | | | | |
| | County | 121 | 81 | 28 | 53 | | |
| | City & Local | | 1 | | 1.1 | | |
| | Federal | | | | | | |
| | Railroad | | | | | | |
| | Other Private | | | | | | |
| ····· | Combination | | | | | | |
| Fayette | ODOT | | | | 98 | | |
| | Other State Agency | | | | | | |
| | County | 27 | 5 | 22 | 164 | | |
| | City & Local | 1 | | | 8 | | |
| | Federal | . <u>.</u> | | | | | |
| | Railroad | | | | | | |
| | Other Private | | | | | | |
| | Combination | | | | | | |
| | | | | | | | |

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Table 5: Total Number of Bridges by Percent of Legal Rating and Maintenance Agency for Each County of Ohio, 1981

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| | - | PERCENT OF MAXIMUM LEGAL LOAD | | | | | |
|----------|--------------------|-------------------------------|--------------|---------------------------------------|--------|--|--|
| County | Main Agency | < 50% | ≥ 50%, ≤ 80% | > 80%, < 100% | ≥ 100% | | |
| Franklin | ODOT | | | 1 | 357 | | |
| | Other State Agency | | | | 3 | | |
| | County | 15 | 33 | 15 | 344 | | |
| | City & Local | 4 | | | 138 | | |
| | Federal | | | | | | |
| | Railroad | | · · i | | 6 | | |
| · | Other Private | 1 | | | 6 | | |
| | Combination | | | 1 | 9 | | |
| Fulton | ODOT | | 1 | | 33 | | |
| | Other State Agency | | | | 21 | | |
| | County | 27 | . 1 | | 150 | | |
| | City & Local | | | | 4 | | |
| | Federal | | | | | | |
| | Railroad | . – | | | | | |
| | Other Private | | | · | | | |
| | Combination | | | | 2 | | |
| Gallia | ODOT | | 1 | 3 | 130 | | |
| | Other State Agency | | | | | | |
| | County | 40 | 71 | 18 | 97 | | |
| · | City & Local | | | | | | |
| | Federal | | | | | | |
| | Railroad | | | | | | |
| | Other Private | | | | | | |
| | Combination | | | | | | |
| Geauga | ODOT | | | | 66 | | |
| | Other State Agency | | | · · · · · · · · · · · · · · · · · · · | | | |
| | County | 2 | 26 | 21 | 153 | | |
| | City & Local | 2 | | | 2 | | |
| | Fede ra l | | | | | | |
| | Railroad | | | | | | |
| | Other Private | | | | | | |
| | Combination | | | <u></u> | | | |
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Total Number of Bridges by Percent of Legal Rating and Maintenance Agency for Each County of Ohio, 1981

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| County Main Agency < 50% | < 100% ≥ 1 |
|--|--|
| Greene ODOT 1 Other State Agency 100 56 County 100 56 City & Local 1 1 Federal 1 1 Railroad 0 0 Other Private 0 0 Combination 2 0 Guernsey ODOT 2 Other State Agency 2 0 County 45 75 3 City & Local 1 1 Federal 1 1 1 Railroad 4 1 1 Mailroad 4 1 1 Hamilton 0DOT 1 1 | |
| Other State Agency County 100 56 City & Local 1 Federal 1 Railroad 0 Other Private 0 Combination 2 Other State Agency 2 Other State Agency 2 County 45 75 County 45 75 Federal 2 County 45 75 Guernsey 0 3 Other State Agency 3 County 45 75 Guernal 4 County 45 County 45 County 4 County 4 | 3 |
| County10056City & Local1FederalRailroadOther PrivateCombinationGuernseyODOT2Other State AgencyCounty45753City & LocalFederalRailroad4Other PrivateCombination | |
| City & Local 1 Federal Railroad Other Private Other Private Combination 2 Guernsey ODOT 2 Other State Agency 2 County 45 75 City & Local 3 Federal 4 Other Private 6 County 45 Federal 75 Mailroad 4 Other Private 6 Combination 4 | 2 |
| Federal Railroad Other Private Combination Guernsey ODOT Other State Agency County 45 City & Local Federal Railroad 4 Other Private Combination | |
| Railroad Other Private Combination Guernsey ODOT Other State Agency County 45 County 45 Federal Railroad 4 Other Private Combination | |
| Other Private Combination Guernsey ODOT Other State Agency County 45 County 45 City & Local Federal Railroad 4 Other Private Combination | |
| Combination Guernsey ODOT 2 Other State Agency 0 County 45 75 3 City & Local 75 3 Federal 75 3 Other Private 0 0 Combination 4 0 | |
| Guernsey ODOT 2 Other State Agency 0 County 45 75 City & Local 75 Federal 75 Railroad 4 Other Private 75 Combination 75 | |
| Other State Agency County 45 75 3 City & Local Federal Railroad 4 Other Private Combination | 9] |
| County 45 75 3 City & Local | |
| City & Local Federal Railroad 4 Other Private Combination Hamilton ODOT | 1 2 |
| Federal Railroad 4 Other Private Combination | |
| Railroad 4 Other Private Combination Hamilton ODOT | ······································ |
| Other Private Combination Hamilton ODOT | |
| Combination Hamilton ODOT | |
| Hamilton ODOT | |
| 0001 | 2 2 |
| Other State Agency | |
| County 18 33 1 | 9 4 |
| City & Local 3 1 | 9 |
| Federal | |
| Railroad 1 | |
| Other Private 1 | 1 |
| Combination | 1 |
| Hancock ODOT | 1 |
| Other State Agency | |
| County 278 97 | 4 |
| City & Local | |
| Federal | |
| Railroad | |
| Other Private | |
| Combination | |

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Total Number of Bridges by Percent of Legal Rating and Maintenance Agency for Each County of Ohio, 1981

| • • | | PERCENT OF MAXIMUM LEGAL LOAD | | | | | |
|----------|--------------------|-------------------------------|--------------|--|------------|--|--|
| County | Main Agency | < 50% | ≥ 50%, ≤ 80% | > 80%, < 100% | ≥ 100% | | |
| Hardin | ODOT | | | | 55 | | |
| | Other State Agency | | | | | | |
| | County | 21 | 41 | | 273 | | |
| | City & Local | | | | | | |
| | Federal | | | | | | |
| | Railroad | | | | | | |
| | Other Private | | | | | | |
| | Combination | | | | | | |
| Harrison | ODOT | 1 | | 2 | | | |
| | Other State Agency | - | | ــــــــــــــــــــــــــــــــــــــ | | | |
| | County | 80 | //3 | 2 | 26 | | |
| | City & Local | 1 | | ······································ | | | |
| | Federal | | L | | 1 | | |
| | Railroad | | | | 1 | | |
| | Other Private | | | | <u>+</u> 2 | | |
| | Combination | | | | 1 | | |
| Henry | ODOT | | | | 89 | | |
| | Other State Agency | | | | | | |
| | County | 147 | 36 | | 188 | | |
| | City & Local | 4 | | - <u> </u> | 6 | | |
| | Federal | | | | | | |
| | Railroad | | | | | | |
| | Other Private | | | | | | |
| | Combination | | | | | | |
| Highland | OBOT | | | 1 | 126 | | |
| | Other State Ageney | <u>⊥</u> | 4 | | | | |
| | County | | 57 | | 194 | | |
| | City & Local | 20 | | <u></u> | | | |
| | Federal | | | | | | |
| | Railroad | | | | 1 | | |
| | Other Private | | | | | | |
| | Combination | 1 | | | 3 | | |

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Table 5: Total Number of Bridges by Percent of Legal Rating and Maintenance Agency for Each County of Ohio, 1981

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| County Main Agency < 50% | | - | PERCENT OF MAXIMUM LEGAL LOAD | | | | | |
|--|---------|--------------------|-------------------------------|--|---|------|--|--|
| Hocking ODDT 3 1 2 County 110 79 1 County 110 79 1 City & Local Federal 1 1 Railroad 1 1 1 1 Other Private Combination 1 1 1 Combination 1 1 1 1 1 Other State Agency 28 80 1 2 1 2 County 28 80 1 2 2 1 2 2 1 2 1 < | County | Main Agency | < 50% | ≥ 50%, ≤ 80% | > 80%, < 100% | ≥ 10 | | |
| Other State Agency 110 79 1 County 110 79 1 City & Local Federal 1 1 Railroad 1 1 1 1 Other Private Combination 1 1 1 Other State Agency 1 0 1 2 County 28 80 1 2 County 10 1 2 1 Federal 1 1 1 1 Other Private 1 1 1 1 Other State Agency 1 1 1 1 Other Private 1 1 1 1 1 Other State Agency 1 1 </td <td>Hocking</td> <td>ODOT</td> <td></td> <td>3</td> <td>1</td> <td>12</td> | Hocking | ODOT | | 3 | 1 | 12 | | |
| County 110 79 1 City & Local Federal 1 Railroad 1 0 Other Private 0 0 Combination 1 0 Holmes 0DOT 1 0 Other State Agency 0 1 2 County 28 80 1 2 County 12 12 13 1 Other Private 000T 1 1 1 Other State Agency 136 45 1 City & Local 7 2 1 1 Federal 1 1 1 1 Other Private | | Other State Agency | | | | | | |
| City & Local Federal Railroad 1 Other Private Combination Holmes ODOT Other State Agency County 28 County 72 Combination Huron ODOT Other State Agency County 72 County 72 Sconty 72 Sconty 72 Pederal 1 Other Private 1 Other State Agency 1 Jackson ODOT 3 Other State Agency 1 | | County | 110 | 79 | | 10 | | |
| Federal 1 Railroad 1 Other Private Combination Combination 1 Other State Agency 1 County 28 80 1 2 City & Local Federal 1 2 Railroad 0 1 2 Other Private 0 1 2 Combination 1 1 1 Other State Agency 1 1 1 Other Private 1 1 1 Other State Agency 1 1 1 Other State Agency 1 1 1 Federal 7 2 1 Federal 1 1 1 Other Private 1 1 1 Other Private 1 1 1 Other State Agency 1 1 1 Other State Agency 1 1 1 Other State Agency 1 | | City & Local | | | | - | | |
| Railroad 1 Other Private | | Federal | | | | | | |
| Other Private Combination Holmes ODOT Other State Agency County 28 County 28 Railroad Other Private Combination Huron ODOT Other State Agency Combination Huron ODOT Other State Agency County 72 County 72 Other State Agency County 72 Other State Agency County 72 Jackson ODOT Jaskan </td <td></td> <td>Railroad</td> <td>1</td> <td></td> <td></td> <td></td> | | Railroad | 1 | | | | | |
| Combination Holmes ODOT 1 Other State Agency County 28 80 1 2 City & Local Federal Federal 1 2 Railroad Other Private 0 1 2 1 Other Private Combination 1 1 1 1 Huron ODOT 1 1 1 1 1 County 72 136 45 1 1 1 1 Other State Agency I 2 1 </td <td></td> <td>Other Private</td> <td></td> <td></td> <td></td> <td></td> | | Other Private | | | | | | |
| Holmes ODOT 1 Other State Agency County 28 80 1 2 City & Local Federal Federal 1 2 Railroad Other Private Other Private 1 1 1 Combination Image: Combination Image: Combination 1 | | Combination | | | | | | |
| Other State Agency County 28 80 1 2 City & Local | Holmes | ODOT | | 1 | | | | |
| County 28 80 1 2 City & Local | | Other State Agency | | | | | | |
| City & Local Federal Combination Huron ODOT County Coun | ····· | County | 28 | 80 | 1 | 21 | | |
| Federal Railroad Other Private Combination Huron ODOT Other State Agency County 72 County 72 City & Local 7 Pederal Railroad 1 Other Private Combination Jackson ODOT Jackson ODOT Jackson ODOT City & Local 4 County 29 S8 8 City & Local 4 County 29 S8 8 City & Local 4 Pederal 1 Railroad 1 Other State Agency 1 County 29 38 8 City & Local 4 2 Federal 1 1 Railroad 1 1 Other Private 1 1 | | City & Local | | | | ¥ | | |
| Railroad Other Private Combination Huron ODOT Other State Agency County 72 City & Local 7 Railroad 1 Other Private Combination Jackson ODOT Jackson ODOT Other State Agency County 29 Sale 8 City & Local 4 County 29 Sale 8 City & Local 4 Federal 8 Railroad 1 Other State Agency 1 County 29 38 All Probal 4 2 Federal 1 Railroad 1 Other Private 1 | | Federal | | | <u>, , , , , , , , , , , , , , , , , , , </u> | | | |
| Other Private Combination Huron ODOT Other State Agency County 72 County 72 City & Local 7 Pederal Railroad 1 Other Private Combination Jackson ODOT Jackson ODOT Other State Agency County 29 S8 8 City & Local 4 Pederal Railroad 1 Other State Agency County 29 S8 8 City & Local 4 Railroad 1 Other Private 1 | | Railroad | | ************************************** | 9 9-1 - 9 9 9 9 9 9 | | | |
| Combination 1 Huron ODOT 1 Other State Agency 1 County 72 136 45 1 City & Local 7 2 1 1 Federal 1 1 1 1 Other Private 0 1 1 1 Jackson ODOT 3 3 1 Other State Agency 29 38 8 2 County 29 38 8 2 Federal 4 2 2 2 Federal 4 2 38 8 3 1 Other State Agency 29 38 8 3 1 Other State Agency 2 38 8 3 1 Other State Agency 4 2< | | Other Private | | | | | | |
| Huron ODOT 1 Other State Agency 72 136 45 1 County 72 136 45 1 City & Local 7 2 1 Federal 1 1 1 Other Private 0 0 1 1 Jackson ODOT 3 3 1 Other State Agency 0 1 1 1 County 29 38 8 2 Federal 4 2 2 2 Federal 4 2 3 1 Other State Agency 4 2 2 3 City & Local 4 2 4 2 Federal 7 7 1 1 Railroad 7 7 1 1 1 | | Combination | | | | | | |
| Other State Agency County 72 136 45 1 City & Local 7 2 1 Federal | Huron | ODOT | | | | 104 | | |
| County 72 136 45 1 City & Local 7 2 1 Federal | | Other State Agency | | | | | | |
| City & Local 7 2 1 Federal 1 Railroad 1 Other Private Combination Jackson ODOT Jackson ODOT Other State Agency County 29 Sa 8 City & Local 4 Pederal Railroad Other Private | | County | 72 | 136 | 45 | 16 | | |
| Federal Railroad 1 Other Private 0 Combination 1 Jackson ODOT 3 3 1 Other State Agency 0 0 1 1 County 29 38 8 2 Federal 4 2 2 1 Railroad 0 0 0 1 1 | | City & Local | 7 | 2 | 1 | | | |
| Railroad 1 Other Private | | Federal | | | | | | |
| Other Private Combination Jackson ODOT Other State Agency County 29 County 29 Federal Railroad Other Private | | Railroad | 1 | | | | | |
| Combination Jackson ODOT 3 3 1 Other State Agency 0 0 0 0 0 County 29 38 8 0 | | Other Private | | | | | | |
| JacksonODOT331Other State Agency0County29388City & Local42Federal1Railroad0Other Private1 | | Combination | | | | | | |
| Other State AgencyCounty29388City & Local42Federal42Railroad0ther Private | Jackson | ODOT | | 3 | 3 | 11 | | |
| County29388City & Local42Federal | | Other State Agency | | | | | | |
| City & Local 4 2 Federal | | County | 29 | 38 | 8 | 9: | | |
| Federal Railroad Other Private | | City & Local | 4 | 2 | | | | |
| Railroad Other Private | | Federal | | | | | | |
| Other Private | | Railroad | | | | | | |
| | - (N) | Other Private | | · | | | | |
| Combination | | Combination | | | | | | |

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Table 5: Total Number of Bridges by Percent of Legal Rating and Maintenance Agency for Each County of Ohio, 1981

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| | | PERCENT OF MAXIMUM LEGAL LOAD | | | | | |
|--|--------------------|-------------------------------|---------------------------------------|---------------|--------|--|--|
| County | Main Agency | < 50% | ≥ 50%, ≤ 80% | > 80%, < 100% | ≥ 1002 | | |
| Jefferson | ODOT | | | | 87 | | |
| | Other State Agency | | | | | | |
| | County | 24 | 26 | | 214 | | |
| ter fille and a diversity of the life of t | City & Local | | 1 | | 5 | | |
| | Federal | ····· | | | | | |
| | Railroad | | | | | | |
| | Other Private | | | | | | |
| | Combination | | | | | | |
| | 0.0.0.0 | | · · · · · · · · · · · · · · · · · · · | | | | |
| | | | 4 | 3 | 99 | | |
| | Other State Agency | | | - · | | | |
| | | 98 | 47 | 14 | 11.9_ | | |
| | City & Local | | ······ | | | | |
| | | | | | | | |
| | Railroad | | | | | | |
| | Other Private | | | | | | |
| | | | | | | | |
| Lake | ODOT | 1 | | | 74 | | |
| | Other State Agency | | | | | | |
| | County | 7 | 45 | 4 | 91 | | |
| | City & Local | 2 | | | 10 | | |
| | Federal | | | | | | |
| | Railroad | | | | 2 | | |
| | Other Private | | | | | | |
| | Combination | 1 | 4 | | 1 | | |
| Lawrence | ODOT | | 5 | 1 | 122 | | |
| | Other State Agency | | | | | | |
| | County | 80 | 63 | 11 | 43 | | |
| | City & Local | 1 | 3 | | | | |
| | Fede ra l | | | | | | |
| | Railroad | | | | | | |
| | Other Private | 1 | | | | | |
| | Combination | | | 1 | | | |
| | | | | | | | |

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Table 5:

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Total Number of Bridges by Percent of Legal Rating and Maintenance Agency for Each County of Ohio, 1981

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| | | PERCENT OF MAXIMUM LEGAL LOAD | | | | | |
|----------|--------------------|-------------------------------|------------------------|---------------|--------|--|--|
| County | Main Agency | < 50% | \geq 50%, \leq 80% | > 80%, < 100% | ≥ 100% | | |
| Licking | ODOT | | 2 | 1 | 144 | | |
| | Other State Agency | | | | | | |
| | County | 18 | 71 | 25 | 207 | | |
| | City & Local | 3 | 2 | 1 | 42 | | |
| | Federal | | | | | | |
| - | Railroad | | | | | | |
| | Other Private | | | | | | |
| | Combination | | | | 1 | | |
| Logan | ODOT | | 2 | 2 | 109 | | |
| | Other State Agency | | | | | | |
| | County | 81 | 45 | 5 | 159 | | |
| | City & Local | | | | | | |
| | Federal | | | | | | |
| | Railroad | | | | | | |
| | Other Private | | | | | | |
| | Combination | | | | 2 | | |
| Lorain | ODOT | | | 1 | 132 | | |
| | Other State Agency | | | | 49 | | |
| | County | | 2 | | 270 | | |
| | City & Local | 1 | | | 45 | | |
| | Federal | | | | | | |
| | Railroad | 2 | | | 1 | | |
| | Other Private | | | | | | |
| | Combination | | | | 8 | | |
| Lucas | ODOT | | | | 107 | | |
| | Other State Agency | | | | 26 | | |
| <u> </u> | County | 9 | 5 | 8 | 156 | | |
| | City & Local | 2 | 7 | 1 | 131 | | |
| | Federal | | | | · | | |
| | Railroad | 5 | 3 | | 2 | | |
| | Other Private | | | | | | |
| | Combination | | | | 10 | | |

Table 5:

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Total Number of Bridges by Percent of Legal Rating and Maintenance Agency for Each County of Ohio, 1981

| | | PERCENT OF MAXIMUM LEGAL LOAD | | | | | |
|----------|--------------------|-------------------------------|------------------------|---------------|--------|--|--|
| County | Main Agency | < 50% | \geq 50%, \leq 80% | > 80%, < 100% | ≥ 100% | | |
| Madison | ODOT | | | | 12: | | |
| | Other State Agency | | | | | | |
| - | County | 12 | 37 | 13 | 126 | | |
| | City & Local | | | | | | |
| | Federal | | | | | | |
| | Railroad | | | | | | |
| | Other Private | | | | | | |
| | Combination | | | | | | |
| Mahoning | ODOT | | | | 133 | | |
| | Other State Agency | | | | 47 | | |
| | County | 12 | 27 | 3 | 281 | | |
| | City & Local | 13 | | 1 | 56 | | |
| | Federal | | | | | | |
| | Railroad | | | | | | |
| | Other Private | | | | 2 | | |
| | Combination | | 1 | | | | |
| Marion | ODOT | | | 1 | 104 | | |
| | Other State Agency | | | | | | |
| | County | 161 | 15 | | 94 | | |
| | City & Local | | | | 3 | | |
| | Federal | | | | | | |
| | Railroad | | | | | | |
| | Other Private | | | | | | |
| | Combination | | | | , | | |
| Medina | ODOT | | | | 176 | | |
| | Other State Agency | | | | | | |
| | County | 6 | 1 | 1 | 127 | | |
| | City & Local | | | | | | |
| | Federal | | | | | | |
| | Railroad | | | | | | |
| | Other Private | | | | | | |
| | Combination | | | | 9 | | |

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| | _ | PERCENT OF MAXIMUM LEGAL LOAD | | | | |
|--|--------------------|-------------------------------|------------------------|---------------|--------|--|
| County | Main Agency | < 50% | \geq 50%, \leq 80% | > 80%, < 100% | ≥ 100% | |
| Meigs | ODOT | | | 1 | 114 | |
| | Other State Agency | | | | | |
| | County | 66 | 102 | 20 | 3 | |
| | City & Local | | | | | |
| Manufacture and an and a state of the second s | Federal | | | | | |
| | Railroad | | | | | |
| | Other Private | | | | | |
| | Combination | | | | | |
| Mercer | ODOT | | 2 | | 118 | |
| | Other State Agency | | | | | |
| | County | 52 | 71 | 25 | 171 | |
| | City & Local | | | | | |
| | Federal | | | | | |
| | Railroad | | | | | |
| | Other Private | | | | | |
| | Combination | | | | 1 | |
| Miami | ODOT | 1 | 3 | 1 | 118 | |
| | Other State Agency | | | | | |
| | County | 2 | 4 | | 326 | |
| | City & Local | | | | | |
| | Federal | | | | | |
| | Railroad | | | | 1 | |
| | Other Private | , | | | 1 | |
| | Combination | | | | 1 | |
| Monroe | ODOT | | 1 | 1 | 91 | |
| | Other State Agency | | | | | |
| | County | 73 | 20 | 6 | | |
| · · · · · · · · · · · · · · · · · · · | City & Local | | | | | |
| | Federal | | | | | |
| | Railroad | | | | | |
| · · · · · · · · · · · · · · · · · · · | Other Private | | | | | |
| | Combination | | | | | |

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| | | PERCENT OF MAXIMUM LEGAL LOAD | | | | | | | |
|---------------------------------------|--------------------|-------------------------------|------------------------|---------------|--------|--|--|--|--|
| County | Main Agency | < 50% | \geq 50%, \leq 80% | > 80%, < 100% | ≥ 100% | | | | |
| Montgomery | ODOT | | | 1 | 167 | | | | |
| | Other State Agency | | | | | | | | |
| | County | 55 | 139 | . 50 | 322 | | | | |
| · · · · · · · · · · · · · · · · · · · | City & Local | 4 | 6 | 1 | 56 | | | | |
| | Federal | | | | | | | | |
| | Railroad | | | | | | | | |
| | Other Private | | | | 1 | | | | |
| | Combination | | | | 3 | | | | |
| Morgan | ODOT | | | 2 | | | | | |
| | Other State Agency | | | | | | | | |
| | County | 41 | 57 | 5 | 149 | | | | |
| | City & Local | | | | | | | | |
| | Federal | | | | | | | | |
| | Railroad | | | | | | | | |
| | Other Private | | | | 1 | | | | |
| | Combination | | | | | | | | |
| Morrow | ODOT | | 1 | 1 | 97 | | | | |
| | Other State Agency | | | | | | | | |
| | County | 108 | 3 | 2 | 107 | | | | |
| | City & Local | | | | | | | | |
| | Federal | | | | | | | | |
| | Railroad | | | | | | | | |
| | Other Private | | | | | | | | |
| | Combination | | | | | | | | |
| Muskingum | ODOT | | 5 | 1 | 161 | | | | |
| | Other State Agency | | | | | | | | |
| | County | 30 | 52 | 11 | 377 | | | | |
| | City & Local | 2 | | | 5 | | | | |
| | Federal | | | | | | | | |
| | Railroad | | | | ····· | | | | |
| | Other Private | | | | | | | | |
| | Combination | | | | | | | | |
| | | | | | | | | | |

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Table 5: Total Number of Bridges by Percent of Legal Rating and Maintenance Agency for Each County of Ohio, 1981

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| - | | PERCENT OF MAX | IMUM LEGAL LOAD | |
|--------------------|--|---|--|---|
| Main Agency | < 50% | ≥ 50%, ≤ 80% | > 80%, < 100% | ≥ 100% |
| ODOT | | 2 | 2 | 166 |
| Other State Agency | | | | |
| County | 83 | 24 | 9 | 51 |
| City & Local | | | | |
| Federal | | | | |
| Railroad | · · · · · · · · · · · · · · · · · · · | | | |
| Other Private | | | | |
| Combination | naga ya kashingan da shakanya serenda | | | |
| ODOT | | | | |
| Other State Agency | | | | 4 |
| County | 7 | 6 | | 108 |
| City & Local | | 2 | | 2 |
| Federal | | | | |
| Railroad | | | | |
| Other Private | | , <u></u> | | |
| Combination | | | | 1 |
| ODOT | | | | 52 |
| Other State Agency | | | | |
| County | 65 | 25 | 4 | 119 |
| City & Local | | | | |
| Federal | | | | |
| Railroad | | | | |
| Other Private | | | | |
| Combination | | | | |
| ODOT | | 2 | 10 | 88 |
| Other State Agency | | | | |
| County | 124 | 38 | 3 | 53 |
| City & Local | | | an a | |
| Fede ra l | | | | |
| Rail ro ad | | | | |
| Other Private | | | | |
| | | | | |
| | Main Agency ODOT Other State Agency County City & Local Federal Railroad Other Private Combination ODOT Other State Agency County City & Local Federal Railroad Other Private Combination | Main Agency< 50%ODOTOther State AgencyCounty83City & LocalFederalRailroadOther PrivateCombinationODOTOther State AgencyCountyCounty7City & LocalFederalRailroadOther PrivateCounty7City & LocalFederalRailroadOther PrivateCombinationODOTOther State AgencyCountyODOTOther State AgencyCounty65City & LocalFederalRailroadOther PrivateCounty65City & LocalFederalRailroadOther PrivateCombinationODOTODOTOther State AgencyCounty124City & LocalFederalRailroad124City & LocalFederalRailroadOther PrivateODOT0ther State AgencyOther State Agency124City & LocalFederalRailroadOther Private | PERCENT OF MAX Main Agency < 50% | PERCENT OF MAXIMUM LEGAL LOAD Main Agency < 50% |

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Table 5: Total Number of Bridges by Percent of Legal Rating and Maintenance Agency for Each County of Ohio, 1981

| | - | | PERCENT OF MAX | IMUM LEGAL LOAD | |
|----------|--------------------|-------|------------------------|-----------------|--------|
| County | Main Agency | < 50% | \geq 50%, \leq 80% | > 80%, < 100% | ≥ 100% |
| Pickaway | ODOT | | 4 | 4 | 101 |
| | Other State Agency | | | | |
| | County | 40 | 28 | 6 | |
| | City & Local | | | | |
| | Federal | | | | |
| | Railroad | | | | |
| | Other Private | | | | |
| | Combination | | | | |
| Pike | ODOT | | 1 | 1 | 90 |
| | Other State Agency | | | | |
| | County | | 2 | 59 | 106 |
| | City & Local | | | | |
| | Federal | | | | |
| | Railroad | | | | 1 |
| | Other Private | | | | |
| | Combination | | | | |
| Portage | ODOT | 1 | 2 | | 99 |
| | Other State Agency | | | | 23 |
| | County | 15 | 33 | 9 | 86 |
| | City & Local | | | | 3 |
| | Federal | | | | |
| | Railroad | 7 | 8 | | 2 |
| | Other Private | | | | |
| | Combination | | | | |
| Preble | ODOT | | 2 | 7 | 120 |
| | Other State Agency | | | | |
| | County | 17 | 8 | 1 | 228 |
| | City & Local | | | | |
| | Federal | | | | |
| | Railroad | | | | |
| | Other Private | | | | |
| | Combination | | | | 1 |
| | | | | | |

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Table 5: Total Number of Bridges by Percent of Legal Rating and Maintenance Agency for Each County of Ohio, 1981

| | | | PERCENT OF MAX | IMUM LEGAL LOAD | |
|----------|--------------------|-------|------------------------|-----------------|--------|
| County | Main Agency | < 50% | \geq 50%, \leq 80% | > 80%, < 100% | ≥ 100% |
| Putnam | ODOT | | 1 | | 62 |
| | Other State Agency | | | | |
| *= | County | 61 | 17 | 42 | 186 |
| | City & Local | | | | |
| | Federal | | | | |
| | Railroad | | | | |
| | Other Private | | | | |
| | Combination | | | | |
| | | | | | 100 |
| Alchland | | 1 | | L | 129 |
| | Other State Agency | 17 | 1.4.7 | | |
| | County | 1 | 147 | JL 1 | 215 |
| | City & Local | | 4 | Τ | |
| | | | | | |
| | Railroad | | | | |
| | Other Private | | | 1 | 5 |
| | Combination | | | 1 | |
| Ross | ODOT | | | 2 | 145 |
| | Other State Agency | | | | |
| | County | 54 | 73 | 20 | 281 |
| | City & Local | 2 | | | |
| | Federal | | | | |
| | Railroad | 3 | | | 3 |
| | Other Private | | | | |
| | Combination | | | ·. | 1 |
| Sandusky | ODOT | 1 | | 1 | 86 |
| | Other State Agency | | | | 66 |
| | County | 11 | 2 | | 217 |
| | City & Local | 2 | | | 6 |
| | Federal | | <u></u> | | |
| | Railroad | 1 | | | |
| | Other Private | | | | |
| | Combination | | | | |
| | | | | | |

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Table 5:

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: Total Number of Bridges by Percent of Legal Rating and Maintenance Agency for Each County of Ohio, 1981

| | _ | | PERCENT OF MAX | IMUM LEGAL LOAD | |
|--------|--------------------|-------|----------------|-----------------|--------|
| County | Main Agency | < 50% | ≥ 50%, ≤ 80% | > 80%, < 100% | ≥ 100% |
| Scioto | ODOT | | <u>1</u> | 2 | 147 |
| | Other State Agency | | | | |
| | County | 201 | 93 | 40 | 174 |
| | City & Local | | 7 | · | 2 |
| | Federal | | | | |
| | Railroad | 1 | | | 2 |
| | Other Private | | | | |
| | Combination | | | | |
| Seneca | ODOT | | 3 | | 89 |
| | Other State Agency | | | | 1 |
| | County | 98 | 7 | | 348 |
| | City & Local | | | | 12 |
| | Federal | | | | |
| | Railroad | | | | |
| | Other Private | | | | |
| | Combination | | | | |
| Shelby | ODOT | | 1 | | 82 |
| | Other State Agency | | | | |
| | County | 43 | 23 | 1 | 236 |
| | City & Local | | | | 15 |
| | Federal | | | | |
| | Railroad | | | | |
| | Other Private | | | | |
| | Combination | | | | 2 |
| Stark | ODOT | | 1 | | 168 |
| | Other State Agency | | · | · | |
| | County | 46 | 3 | | 271 |
| | City & Local | 2 | | | 26 |
| | Federal | | | | |
| | Railroad | 1 | | | 3 |
| | Other Private | | | | |
| | Combination | | | | |

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Table 5: Total Number of Bridges by Percent of Legal Rating and Maintenance Agency for Each County of Ohio, 1981

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| | | | | LIGHT DOULD DOUD | |
|------------|--------------------|-------|--------------|------------------|--------|
| County | Main Agency | < 50% | ≥ 50%, ≤ 80% | > 80%, < 100% | ≥ 100% |
| Summit | ODOT | | | | 176 |
| | Other State Agency | | | | 13 |
| | County | 5 | 1 | 1 | 244 |
| | City & Local | 10 | | | 91 |
| | Federal | | | | |
| | Railroad | | | | |
| | Other Private | | | | |
| | Combination | | | | 2 |
| Trumbull | ODOT | | | | 202 |
| | Other State Agency | | | | 2.8 |
| | County | 24 | 55 | 20 | 155 |
| | City & Local | | | | 1 |
| | Federal | | | | 1 |
| | Railroad | 3 | 1 | | 1 |
| | Other Private | | | | |
| | Combination | | | | |
| Tuscarawas | ODOT | | 3 | | 157 |
| | Other State Agency | | | | |
| | County | 59 | 3 | 11 | 188 |
| | City & Local | 1 | · | | 11 |
| | Federal | | | | 1 |
| | Railroad | | | | |
| | Other Private | | | | |
| | Combination | | | | 1 |
| Union | ODOT | | | | 105 |
| | Other State Agency | | · · | | |
| | County | 46 | 20 | | 69 |
| | City & Local | | | - | |
| | Federal | | | | |
| | Railroad | | | | |
| | Other Private | | | | |
| | Combination | | | | |

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Table 5: Total Number of Bridges by Percent of Legal Rating and Maintenance Agency for Each County of Ohio, 1981

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| | | | PERCENT OF MAX | IMUM LEGAL LOAD | |
|------------|--------------------|-------|------------------------|-----------------|--------|
| County | Main Agency | < 50% | \geq 50%, \leq 80% | > 80%, < 100% | ≥ 100% |
| Van Wert | ODOT | | | | 87 |
| | Other State Agency | | | | |
| | County | 110 | 107 | 12 | 110 |
| | City & Local | 1 | 7 | | 2 |
| | Federal | | | | |
| | Railroad | | | | |
| | Other Private | | | | |
| | Combination | | | | |
| Vinton | ODOT | | 4 | 1 | |
| | Other State Agency | | | | |
| | County | 137 | 40 | | 66 |
| | City & Local | | | | |
| | Federal | | | | |
| | Railroad | | | | |
| | Other Private | | | | |
| | Combination | | | | |
| Warren | ODOT | | 2 | | 102 |
| | Other State Agency | | | | |
| | County | 77 | 1 | | 317 |
| | City & Local | 1 | | | 3 |
| | Federal | | | | |
| | Railroad | | | | |
| | Other Private | | | | |
| | Combination | | | | 2 |
| Washington | odot | | 1 | 2 | 137 |
| | Other State Agency | | | | |
| | County | 116 | .54 | 4 | 80 |
| | City & Local | | | | 5 |
| | Federal | | | | |
| | Railroad | 1 | | | 1 |
| | Other Private | | | | 1 |
| | Combination | | | | |

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Table 5:

. - 46 -Total Number of Bridges by Percent of Legal Rating and Maintenance Agency for Each County of Ohio, 1981

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| | | PERCENT OF MAXIMUM LEGAL LOAD | | | | | | | |
|----------|--------------------|-------------------------------|---|---------------|--|--|--|--|--|
| County | Main Agency | < 50% | ≥ 50%, ≤ 80% | > 80%, < 100% | ≥ 100% | | | | |
| Wayne | ODOT | | 2 | 1 | 14: | | | | |
| | Other State Agency | | | | | | | | |
| | County | 81 | 4 | <u>1</u> | 363 | | | | |
| | City & Local | 1 | | | | | | | |
| | Federal | | | | | | | | |
| | Railroad | | | | | | | | |
| | Other Private | | | | | | | | |
| | Combination | | | | e | | | | |
| Williams | ODOT | | | 1 | 69 | | | | |
| | Other State Agency | | | | 24 | | | | |
| | County | | 14 | | 128 | | | | |
| | City & Local | | anala an | · · · | | | | | |
| | Federal | | | | | | | | |
| | Railroad | | | | | | | | |
| | Other Private | | an da na bha an | | | | | | |
| | Combination | | 2 | | 32 | | | | |
| Wood | ODOT | | | 2 | 163 | | | | |
| | Other State Agency | | | | 39 | | | | |
| | County | 66 | 47 | 17 | 229 | | | | |
| | City & Local | 7 | | | | | | | |
| | Federal | ` | | | | | | | |
| | Railroad | | | | a un a companya da serie da s | | | | |
| | Other Private | | | | | | | | |
| | Combination | ······ | | | 3 | | | | |
| Wyandot | odot | | | | 102 | | | | |
| | Other State Agency | | | | | | | | |
| | County | 26 | 28 | | 194 | | | | |
| | City & Local | 2 | | | 5 | | | | |
| | Fed era l | | | | | | | | |
| | Railroad | | | | | | | | |
| | Other Private | | | | | | | | |
| | Combination | | | | | | | | |
| | | | | | | | | | |





BRIDGE INVENTORY SYSTEM

A1-81

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| C 4 T 3 S T A 11 C | 05/26/81 THEFS MAINT | ATNED BY C | ESTIN DUNTY OF SHARE | ATED CCU | NTY BPIDGE RE | HABILITA | TION OR REPLAC | EMENT COS | ST S | | PAGE CCOL | į. |
|-----------------------|-------------------------|---------------|-------------------------|---------------|-------------------------|--------------|-----------------------|---------------|-------------|----------------|---------------------------|-----------|
| | | | OVERALL LENGTH | 10-2057 | | | OVERALL LENGTH | 2157 6 1 | 1P | T | NTAL | |
| COUNTY | ON FILE | REPLAC NC. | EMENT COST(10005) | REHART NG. | LITATICN COST(1000S) | REPLA NÜ. | CEMENT COST(10005) | REHAR) NO. | COST(1000S) | DEFICIE NO. | NT BRIDGES COST(1000S) | |
| | | | | | | | | | | | | 1 |
| 474 | 285 | 5 | \$ 200 | 41 | \$517 | 21 | \$7.598 | 44 | \$1.542 | 111 | \$5.857 | ~ |
| 411 | 415 | 6 | \$607 | 27 | \$417 | 28 | \$12.415 | 58 | \$5.019 | 119 | \$18.459 | - |
| ASC. | 179 | 1 | \$66 | 1 | \$18 | 65 | \$10.378 | 58 | \$2,515 | 125 | \$12.977 | • · · · · |
| ATR | 278 | 9 | \$713 | 54 | \$1.026 | . 48 | \$23.427 | 99 | \$11.101 | 210 | \$36.327 | |
| ΔΤΗ | 234 | 0 | \$0 | 4 | \$78 | 52 | \$11.385 | 74 | \$3.908 | 140 | \$15.371 | |
| AUG | 389 | 10 | \$608 | 90 | \$1.937 | 54 | \$16,75+ | 110 | \$6.530 | 274 | \$25.834 | |
| ٩٩٢ | 314 | 11 | \$672 | 70 | \$1.038 | 44 | \$9.052 | 152 | \$8.063 | 277 | \$13.825 | |
| P Q Q | 2 3 5 | 2 | \$113 | 14 | \$226 | 23 | \$4,579 | 122 | \$5.515 | 161 | \$10.4,33 | |
| BUT | 392 | 2 | \$137 | 37 | \$703 | 37 | \$10,187 | 132 | \$15.694 | 208 | \$26.721 | |
| C AR | 158 | 0 | \$0 | 44 | \$566 | 20 | \$2.444 | 66 | \$2.824 | 130 | \$5.834 | |
| Снр | 223 | 4 | \$236 | 23 | \$377 | 25 | \$4.624 | 42 | \$2.087 | 94 | \$7.324 | |
| CLA | 82 | 0 | \$0 | 1 | \$22 | 30 | \$10.010 | 34 | \$9.496 | 65 | \$19,528 | 4 |
| CLE | 393 | 31 | \$1.681 | 72 | \$1.331 | 103 | \$19.390 | 79 | \$5.031 | 285 | \$27.423 | |
| CLI | 306 | 4 | \$279 | 79 | \$1.142 | 38 | \$7.439 | 85 | \$4.680 | 206 | \$13.540 | · · · |
| cri | 327 | 22 | \$1,277 | 47 | \$578 | 143 | \$28.149 | 81 | \$5.563 | 293 | \$35,567 | |
| 0.05 | 345 | 32 | \$1.761 | 33 | \$513 | 108 | \$27.025 | 81 | \$6,839 | 254 | \$30.138 | |
| CRA . | 249 | 20 | \$1.178 | 15 | \$243 | 45 | \$8.357 | 54 | \$3.546 | 134 | \$13.324 | |
| CUY | 323 | 19 | \$462 | 30 | \$180 | 51 | \$289.032 | 102 | \$53,528 | 202 | \$343.202 | |
| CAP | 413 | 1 | <70 | 33 | \$621 | 61 | \$10.147 | 105 | \$4.316 | 200 | \$15,154 | |
| n£F | 301 | 59 | \$3,248 | 97 | \$1,707 | 12 | \$16.308 | 43 | \$4,235 | 271 | \$25.498 | |
| DTL | 299 | 29 | \$1,518 | 60 | \$1.000 | 61 | \$20.686 | 39 | \$2.905' | 189 | \$26.109 | |
| EAI | 144 | 2 | \$196 | 6 | \$128 | 4 | \$16.225 | 19 | \$2,220 | 31 | \$18.769 | |
| FAI | 233 | 1 | \$61 | 15 | \$207 | 108 | \$16.652 | 100 | \$4.678 | 224 | ¥21,598 | |
| FAY | 218 | 0 | \$0 | 4 | \$68 | 22 | \$7.602 | 22 | \$2.146 | 48 | \$9.816 | |

PATE 057 6781 ESTIMATED COUNTY BRIDGE REMANDITATION OR REPLACEMENT COSTS

| | TOTAL | | OVERALL LENGTH | 1 10-20F | f | (| NEPALL LENGTH | 21FT 6 1 | IJP | 1 | OTAL | |
|--------|---------|--------|----------------|--------------|--------------------------|--------|---------------|----------|-------------|----------------|-------------|-------------|
| COUNTY | PRIDGES | REPLAC | COST(1000S) | REHAR NO. | ILITATION CCST(1000S) | REPLAG | COST (1000S) | REHAR | COST(1000S) | DEFICIE NO. | COST(1000S) | |
| | | | | | | | | | | | | |
| FRA | 414 | 3 | \$316 | 48 | \$904 | 18 | \$10,941 | 93 | \$26.718 | 162 | \$38.879 | 41. |
| FUL | 178 | 2 | \$144 | 3 | \$54 | 23 | \$4.609 | 19 | \$976 | 47 | \$5.783 | |
| GAL | 226 | 4 | \$220 | 13 | \$179 | 55 | \$9.029 | 78 | \$2.877 | 150 | \$12.305 | |
| GEA | 202 | 2 | \$68 | 29 | \$511 | . 8 | \$1.316 | 53 | \$2.844 | 92 | \$4.739 | |
| GRE | 345 | 42 | \$7.476 | 52 | \$720 | 45 | \$9.015 | 53 | \$3.705 | 192 | \$15.916 | |
| GUE | 391 | 6 | \$288 | 16 | \$265 | 37 | \$4.078 | 74 | \$5,225 | 133 | \$9.856 | |
| HLM | 502 | 7 | \$563 | 22 | \$308 | 43 | \$46.142 | 106 | \$58.656 | 178 | \$105.669 | |
| HAN | 470 | 64 | \$3,712 | 61 | \$919 | 119 | \$18.645 | 138 | \$9.022 | 382 | \$32.298 | |
| HAR | 335 | 18 | \$1,100 | 78 | \$1.263 | 32 | \$8.126 | 107 | \$5+150 | 235 | \$15.639 | |
| HAS | 153 | 8 | \$532 | 22 | \$395 | 43 | \$6.481 | 59 | \$ 3.162 | 132 | \$10.570 | |
| महा। | 371 | 32 | \$1.971 | 25 | \$564 | 93 | \$17.160 | 66 . | \$4.862 | 216 | \$24,557 | |
| HIG | 300 | 11 | \$619 | 40 | \$581 | 58 | \$8.131 | 56 | \$2.958 | 165 | \$12.289 | 4 |
| H)(. | 292 | 33 | \$1.536 | 25 | \$383 | 91 | \$12.716 | 88 | \$3,179 | 237 | 17.814 | |
| на | 325 | 10 | \$565 | 65 | \$817 | 27 | \$4.159 | 98 | \$3.737 | 200 | \$9.278 | |
| HUF | 420 | 14 | \$890 | 77 | \$1.356 | 51 | \$9,400 | 123 | \$8,469 | 265 | \$20-115 | |
| .140 | 167 | 0 | \$ 0 | 4 | \$61 | 37 | \$5.588 | 71 | \$2,994 | 112 | \$8.643 | |
| JEF | 267 | 15 | \$ 84 7 | 51 | \$743 | 34 | \$8.385 | 93 | \$6.654 | 193 | \$16.629 | |
| KND | 278 | 1 | \$71 | 5 | \$102 | 129 | \$26.825 | 65 | \$3,486 | 200 | \$30.484 | |
| LAK | 159 | 3 | \$193 | 21 | \$302 | 12 | \$[1,96] | 57 | \$7.617 | 93 | \$20.073 | |
| LAW | 198 | 11 | \$669 | 4 | \$48 | 61 | \$8,276 | 94 | \$3,927 | 170 | *12-920 | |
| LIC | 326 | 0 | \$0 | 10 | \$130 | 40 | \$7,227 | 159 | \$7.831 | 179 | \$15.188 | |
| r De | 290 | 20 | \$1.243 | 22 | \$347 | 98 | \$17.331 | 48 | \$2.836 | 188 | \$21.757 | |
| LGR | 287 | l | \$54 | 29 | \$535 | 3 | \$1.083 | | \$15,981 | | \$17.653 | |
| 1.110. | 178 | 11 | \$841 | 23 | \$500 | | \$4.464 | 40 | \$16.340 | 88 | \$22.195 | |



F200 3749

DATE 05/26/81 ESTIMATED COUNTY BEIDGE REHABILITATION OF PEPLACEMENT COSTS STRUCTURES MAINTAINED BY COUNTY OF SHARED WITH OTHER AGENCY

| · | TOTAL | | OVERALL LENGTH | 10-20F | | | OVERALL LENGTH | 21FT F. | 11P | T | NTAL | |
|--------|---------|--------|----------------|--------|-----------|-------|----------------|---------|-------------|----------------|---|----|
| COUNTY | BRIDGES | REPLAC | EMENT | REHAB) | ILITATION | REPLA | CEMENT | | | DEFICIE NO. | NT BPILGES | |
| | UN FILE | NU . | | NL: • | | | 0.0311100037 | | 20311200037 | | (,))))))))))))))))))))))))))))))))))))) | |
| MAD | 189 | 2 | \$139 | 20 | \$420 | 22 | \$6.195 | 55 | \$3,384 | 99 | \$10.138 | |
| мдн | 324 | 4 | \$273 | 56 | \$1.256 | 23 | \$64.658 | 69 | \$15.797 | 152 | \$81.984 | |
| MAF | 270 | 11 | \$652 | 50 | \$822 | 65 | \$14.172 | 55 | \$3.060 | 181 | \$18.706 | |
| MED | 135 | 1 | \$74 | 14 | \$180 | . 8 | \$1.834 | 62 | \$3.228 | 85 | \$5.316 | • |
| MEG | 191 | 3 | \$160 | 3 | \$74 | 46 | \$4.844 | 107 | \$4.987 | 159 | \$10.065 | |
| MER | 319 | 0 | \$0 | 5 | \$96 | 61 | \$10.105 | 147 | \$6.009 | 213 | \$16,211 | |
| ~ T A | 332 | 1 | \$42 | 32 | \$597 | 8 | \$4.677 | 106 | \$11.974 | 147 | \$17.290 | |
| MUE | 107 | 0 | \$ 0 | 5 | \$78 | 15 | \$3.667 | 15 | \$1.053 | 35 | \$4.798 | |
| MOT | 576 | 21 | \$1.762 | 109 | \$2.101 | 42 | \$21.357 | 135 | \$35.093 | 307 | \$60.313 | ·· |
| MRG | 252 | 24 | \$1,152 | 43 | \$551 | 82 | \$12.932 | 57 | \$2,245 | 206 | \$16.880 | 1 |
| MC W | 220 | 0 | \$0 | . 2 | \$33 | 108 | \$15.142 | 23 | \$1.268 | 133 | \$16.443 | 49 |
| MIJS | 460 | 28 | \$1,468 | 103 | \$1.460 | 53 | \$16.619 | 111 | \$8.676 | 295 | \$28,223 | 1 |
| NOF | 167 | 6 | \$285 | 3 | \$47 | 81 | \$9,050 | 48 | \$1.410 | 138 | \$10.792 | |
| CTT | 121 | 2 | \$151 | 7 | \$100 | 14 | \$4.170 | 56 | \$4.647 | 79 | \$9.068 | |
| ΡΑΠ | 213 | 13 | \$816 | 26 | \$ 394 | 61 | \$18.916 | 18 | \$1.051 | 118 | \$21.177 | |
| PGR | 218 | 16 | \$829 | 10 | \$152 | 99 | \$12.747 | 42 | \$2,347 | 167 | \$16.075 | |
| PIC | 191 | 0 | \$0 | 3 | \$62 | 42 | \$10,039 | 71 | \$4.608 | 116 | \$14.709 | |
| PIK | 167 | 0 | \$0 | 17 | \$283 | 3 | \$604 | 48 | \$2.451 | 68 | \$3,338 | |
| PUF | 143 | 1 | \$68 | 10 | \$185 | 14 | \$3,586 | 54 | \$4.560 | 79 | \$8.399 | |
| PRE | 254 | 0 | \$0 | 13 | \$240 | 20 | \$5.770 | 70 | \$4.397 | 103 | \$10.407 | |
| PUT | 306 | 6 | \$388 | 11 | • \$193 | 43 | \$14.046 | 25 | \$2.188 | 85 | \$16.815 | |
| PIC | 410 | 7 | \$633 | 103 | *1,751 | . 27 | \$8.087 | 117 | \$7.880 | 254 | \$18.351 | |
| FOS | 429 | 21 | \$1.112 | 66 | \$1.023 | 74 | \$15.413 | 109 | \$7.245 | 270 | \$24,793 | |
| SAN | 230 | 1 | \$25 | 7 | \$133 | 19 | \$4.347 | 52 | \$4.434 | 79 | \$8.939 | |
| | | | | | | | | | | | | |

| | 0 | | | e | BPIDGE INV | | SYSTEM | | | | - 81 | · • • |
|---------------|--|--|---|--|---------------------------------------|-------------|--------------------------|--------------|--------------------------|-----------------|---------------------------------------|--------------|
| DATS STRUC | US/26/81 | ATNED BY C | ESTI NUNTY OR SHAR | MATED CCU ED WITH (| INTY BRIDGE RE THER AGENCY | HARILIT | ATION OR REPLAC | EMENT CO | STS | | PAGE 0004 | 7 |
| | TOTAL | | OVERALL LENGT | H 10-20F1 | · · · · · · · · · · · · · · · · · · · | | OVERALL LENGTH | 21FT 6 | UP | Tr | TAL | |
| CCUNTY | BRIDGES GN FILE | REPLAC NO. | EMENT COST(10005) | REHARI NO. | LITATION COST (10005) | FEPL NO. | ACE MENT COST (10005) | RFHAB NJ. | ILITATION COST(10005) | PEFICICI NC. | COST(10005) | 6 |
| SCI | 509 | 144 | \$7.647 | 61 | \$1.020 | 117 | \$15,953 | 103 | \$10.071 | 425 | \$34.691 | |
| SEN | 453 | 36 | \$2.058 | 61 | \$994 | 72 | \$13.675 | 73 | \$3.047 | 242 | \$19.774 | ` |
| SHE | 303 | 14 | \$942 | 34 | \$534 | 59 | \$19.526 | 29 | \$2.654 | 136 | \$23,656 | |
| STA | 323 | 7 | \$575 | 16 | \$260 | . 36 | \$15.378 | 147 | \$16.077 | 206 | \$32.290 | |
| SUM | 252 | 0 | ¢0 | 14 | \$379 | 11 | \$44.355 | 149 | \$14,919 | 174 | \$59.653 | |
| TRU | 2 54 | 4 | \$279 | 17 | \$346 | 19 | \$22.304 | 105 | \$12.792 | 145 | \$35,721 | |
| TUS | 252 | 10 | \$675 | 30 | \$585 | 49 | \$23.085 | 65 | \$6,595 | 154 | \$30.940 | |
| Uni | 135 | 5 | \$370 | 0 | \$ C | 47 | \$15,223 | 26 | \$1.942 | 78 | \$17.535 | |
| VAN | 339 | 8 | \$420 | 28 | \$477 | 91 | \$11.465 | 103 | \$4.985 | 230 | \$17.347 | |
| VIN | 243 | 44 | \$2.314 | 19 | \$339 | 78 | \$12,976 | 44 | \$2.132 | 185 | \$17.761 | ¹ |
| WAP | 395 | 15 | \$1.008 | 59 | \$1.234 | 63 | \$24.479 | 47 | \$3.441 | 184 | \$30.16? | ហ |
| WAS | 254 | 26 | \$1,466 | 14 | \$249 | 79 | \$21,356 | 75 | \$4.302 | 194 | \$27.373 | 0 |
| WAY | 451 | 9 | \$609 | 72 | \$1.295 | 99 | \$18.426 | 141 | \$7.194 | 321 | \$27.524 | |
| WIL | 172 | 1 | \$174 | 2 | \$30 | 17 | \$4.165 | 36 | \$2.682 | 56 | \$7.051 | |
| w00 | 359 | 2 | \$169 | 18 | \$331 | 30 | \$5,150 | 95 | \$6.082 | 145 | \$11.732 | |
| •YA | 253 | 10 | \$620 | 12 | \$173 | 40 | \$10.002 | 38 | \$2,571 | 100 | \$13.366 | |
| STATE | 25029 | 1091 | \$63.438 | 2817 | \$47.208 | 4 3 9 1 | \$1.411.487 | 6615 | \$628.702 | 14914 | 2.150.835 | |
| NOTE | PFIDGE REHA BAIDGE REPL CULVERT TYP REHAR. REPLAC. FOR SHARED | AR. RATE = AC. RATE = PE RPIDGE: = \$6.000 = \$25.000 MAINTENAK | SO PER SO SO PER SO PER INSTALLA PER INSTALLA PER INSTALLA E COST - ASSU | FT. FT. PL TION. TICN. MED 50% | NS ASSUMED 100 | TECK | AREA INCREASE. | | | | | |
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