

3.4 Bridges

In the OMEGA RTPO region, there are 2,964 bridges, 61% of which are under local jurisdiction and the remaining 39% under state jurisdiction. An inventory of these bridges is provided in Appendix G. This inventory includes: jurisdiction, location, structure file number, general appraisal rating, sufficiency rating, year built, load rating, length, and vertical clearance.

The general appraisal is a composite condition measurement of the major structural items of a bridge such as superstructure, piers, and abutments. General appraisal values range from 0 to 9, with 9 being like new and 0 being out of service. The specific scale is as follows:

<u>Rating</u>	<u>Condition Category</u>	<u>Description</u>
9	Excellent	
8	Very Good	No problems noted.
7	Good	Some minor problems.
6	Satisfactory	Structural components show minor deterioration.
5	Fair	All primary structural components are sound but may have minor defects or deterioration.
4	Poor	Advanced defects and/or deterioration.
3	Serious	Defects and/or deterioration have seriously affected primary structural components. Local failures are possible. Fatigue cracks in steel or shear cracks in concrete may be present.
2	Critical	Advanced deterioration of primary structural components. Cracks in steel or concrete may be present. Unless closely monitored, it may be necessary to close bridge until corrective actions are taken.
1	Imminent Failure	Major deterioration present in critical structural components. Loss may be present in structural support, affecting bridge stability, bridge is closed to traffic, but corrective action may be sufficient to put the bridge back into light service.
0	Failed	Bridge is out of service and beyond corrective action.

OMEGA used the general appraisal as a measure to assess the overall condition of the bridges in the planning area. Bridges with a general appraisal rating of 4 or less (see Figure 3-20) are eligible for several funding programs for rehabilitation or replacement. Maps showing the location of all bridges by county with a general appraisal rating of 4 or less are provided in Appendix H. These maps indicate if the bridge is under state or local (county or municipality) jurisdiction and whether or not the bridge has a span of 20 feet or greater. Bridges with a span of at least 20 feet are eligible for federal funding.

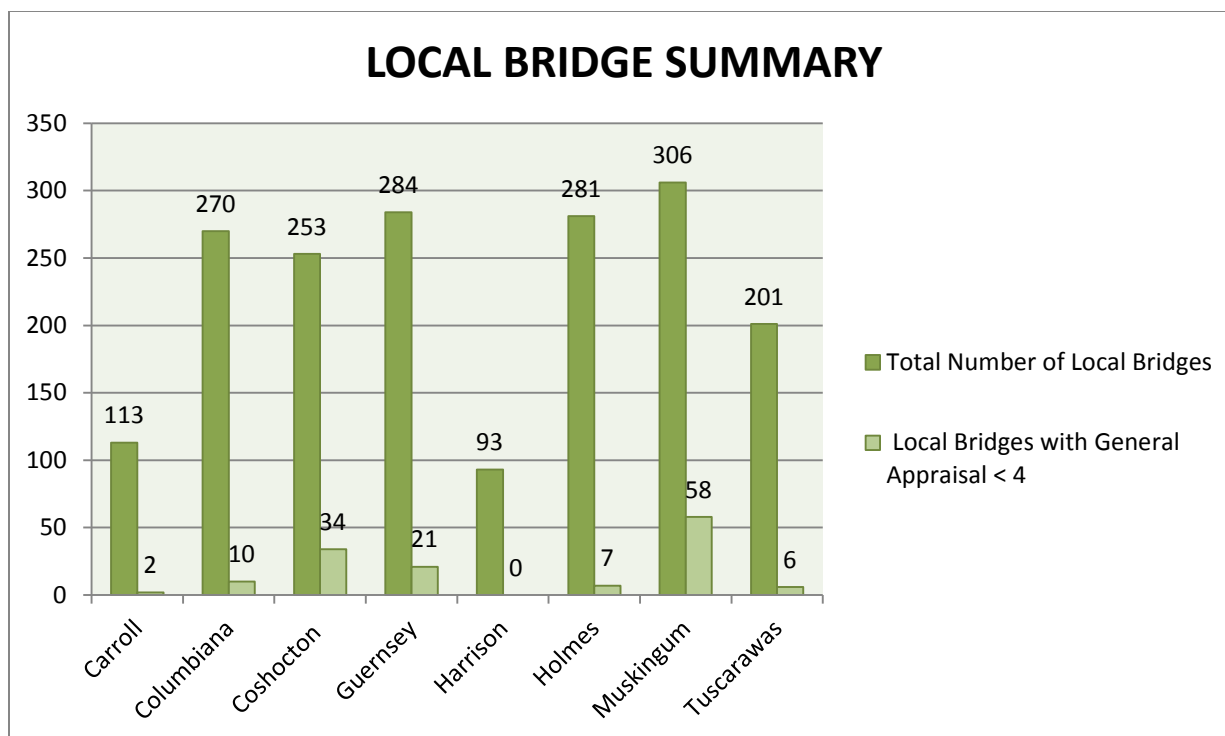
As shown in Table 3-6, there are 138 bridges under local jurisdiction that have a General Appraisal Rating of 4 or less. Muskingum County has the highest number of bridges under local jurisdiction as well as the highest number of local bridges with a general appraisal rating of 4 or less. The bridge that spans the Muskingum River in Philo is one of the largest bridges under local jurisdiction that needs to be replaced. The estimated cost to replace the bridge is several million dollars.

Table 3-6: Bridge Summary

County	Jurisdiction			General Appraisal ≤ 4		
	State	Local	Total	State	Local	Total
Carroll	61	113	174	1	2	3
Columbiana	193	270	463	12	10	22
Coshocton	107	253	360	8	34	42
Guernsey	204	284	488	10	21	31
Harrison	91	93	184	6	0	6
Holmes	100	281	381	5	7	12
Muskingum	209	306	515	17	58	75
Tuscarawas	198	201	399	6	6	12
Total	1,163	1,801	2,964	65	138	203

Please note that the information in Table 3-6 is based upon information provided by ODOT; however, the County Engineers have indicated that this data may not be the most current or accurate. Columbiana County has indicated that there are 341 under local jurisdiction versus the 270 bridges indicated in the ODOT database. Similarly, Harrison County has indicated that there are 146 bridges under local jurisdiction versus the 93 indicated in Table 3-6. In addition, the General Appraisal Rating may not be reflective of current conditions as bridges on Byesville Road (CR 347) in Guernsey County and on CR 51 in Harrison County have been closed within the last year yet these closures are not listed in the bridge data that was provided. ODOT will be updating the bridge database in the Transportation Information Management System (TIMS). Once this database is updated to include the General Appraisal Rating, OMEGA will update the bridge inventory in this section so that it is reflective of current conditions.

Figure 3-22: Local Bridge Summary



Recognizing that the rehabilitation and replacement of structurally deficient bridges is of primary importance for motorist safety and that the cost of these repairs may be problematic for many local jurisdictions, ODOT has implemented the Ohio Bridge Partnership Program. This program provides \$120 million for SFY 2015 to 2017 for the replacement of bridges statewide. Projects meeting the eligibility requirements are eligible for 100% federal funds, no local match required. To be eligible for this program, a bridge must meet the following criteria:

- Structurally Deficient
- Open and carry vehicular traffic
- Not currently funded by other sources
- Meeting the federal definition of a bridge (span greater or equal to 20 feet)

Ten bridges in the OMEGA RTPo are currently included on this list. The locations of these bridges are shown in Appendix H and the current status of each bridge is summarized in Table 3-7.

Table 3-7: Ohio Bridge Partnership Program Summary

SFN	County	Location	General Appraisal	Sufficiency Rating	Load Rating, %
1536974	Columbiana	TR 848	4	18.9	10
1631578	Coshocton	CR 19, Big Run	4	29.3	35
3030814	Guernsey	CR 366	2	40.8	150
3840174	Holmes	CR 207	4	24.5	30
6030106	Muskingum	CR 31, Meigs Creek	3	55.6	150
6030181	Muskingum	CR 31, Guyst Fork	4	65.9	30
6038220	Muskingum	CR 71, Thompson Run	3	21.1	100
6044336	Muskingum	CR 301, Wakatomika Creek	3	36.2	125
6043143	Muskingum	CR 38, Wakatomika Creek	3	20.9	100
6043194	Muskingum	CR 38, Wakatomika Creek	4	23.4	35