

SECTION 2: RISK ANALYSIS

2.1 RISK ANALYSIS OVERVIEW

The State of Ohio is prone to many natural, manmade, and technological hazards. Ohio has experienced thousands of hazard events, resulting in millions of dollars in losses and casualties, and 48 Presidential disaster declarations. The Risk Analysis (RA) in Section 2 of this plan draws data and analysis from many different sources in order to analyze and mitigate impacts from the state's highest risk hazards.

In order to meet FEMA state mitigation planning requirements in 44 CFR 201.4(c) (2) and (d), a state mitigation plan risk assessment must:

- Include an overview of the type and location of all natural hazards that can affect the state,
- Provide an overview of the probabilities of future hazard events,
- Address the vulnerability of state assets located in hazard areas and estimate the potential dollar losses to these assets,
- Include an overview and analysis of the vulnerability of jurisdictions to the identified hazards and the potential losses to vulnerable structures, and
- Reflect changes in development

HAZARD IDENTIFICATION

The State of Ohio Hazard Identification and Risk Analysis (HIRA) provides an overview of the type and location of all natural hazards that can affect the state (see Appendix I). The HIRA is maintained by the Ohio EMA Plans Branch and is the authoritative source of hazard identification and analysis that informs all state plans related to emergency management. However, the SOHMP does not include an in-depth analysis of all thirty-one (31) hazards listed in the HIRA for several reasons some of which include:

- The hazard is human-caused or technological and the impacts of the hazard are more appropriately addressed in preparedness or law enforcement plans,
- The hazard probability is so low that an in-depth analysis is not justified or the data to conduct the analysis does not exist, and
- The State of Ohio has decided to focus limited mitigation resources on the hazards that will have the highest probability and greatest documented impact to people and property.

To support the hazards selected for a detailed analysis in the SOHMP, the state has applied multiple HIRA models that use different methodologies. The results of these analyses can be found in the 2014 SOHMP. All of the HIRA models applied concurred that flooding, tornado/windstorms, and winter storms are the highest threat hazards in Ohio. In the 2019 SOHMP update, the following hazards are analyzed in detail:

- Flooding (includes areal, riverine and flash flooding)
- Tornado
- Winter Storms (includes snow, ice, hail, and sleet)
- Landslide (includes mudslides)
- Dam/Levee Failure
- Wildfire
- Seiche / Coastal Flooding
- Earthquake
- Coastal Erosion
- Severe Summer Storms (includes windstorms and hail)
- Invasive Species
- Land Subsidence (includes abandoned mines)

Each hazard identified in this section includes an overview of the hazard and the probability of future hazard events. Each section also addresses, where appropriate, the vulnerability of state assets located in hazard areas and estimates the potential dollar losses to these assets. The methodology for estimating losses to state-owned critical facilities is different based on the characteristics of the hazard and data available to conduct the vulnerability analysis. The methodology used for each hazard is discussed in that section of the plan. Each section also contains an overview and analysis of the vulnerability of jurisdictions to the identified hazards and the potential losses to vulnerable structures based on analysis of data in local hazard mitigation plans.

STATE HAZARD ANALYSIS RESOURCE AND PLANNING PORTAL (SHARPP)

SHARPP is a repository for past, present, and future versions of all local natural hazard mitigation plans in Ohio. As local mitigation plans are updated they will be uploaded into SHARPP. There are seven factors for each hazard: Frequency, Response, Onset, Impact (magnitude), Impact on business, Impact on people, and Impact on Property. This allows for an increased ability to “ground truth” local priorities with respect to the SOHMP HIRA. For the 2019 SOHMP update, 57 local hazard mitigation plans were reviewed as part of this analysis. These 57 plans were the plans that were approved and not expired as of April 2018. Table 2.1.k shows the ranking of the top ten hazards based on local priorities. For more information regarding SHARPP entry and rankings, see Section 4.3.

Table 2.1.k

Overall Hazard Ranking		
Hazard	Score	Rank
Flooding	21.09	1
Winter Storms	20.54	2
Severe Summer Storms	18.44	3
Tornado	18.04	4
Drought	16.91	5
Earthquake	15.67	6
Dam/Levee Failure	14.71	7
Invasive Species	12.02	8
Landslide	11.97	9
Land subsidence	11.97	10
Wildfire	11.21	11
Coastal Erosion	10.39	12

Section 2.15 titled, Future Potential Areas of Risk, contains an analysis of future projected growth areas in the state in relation to known hazard risk. This section also evaluates activities with the potential to amplify the effects of existing hazards such as climate change and hydraulic fracturing for oil and gas, and Harmful Algal Blooms (HAB).

ASSESSING VULNERABILITY OF STATE FACILITIES

44 CFR 201.4 (c) (2) (ii) – The risk assessment shall include “an overview and analysis of the state’s vulnerability to the hazards described in this paragraph (c) (2), based on estimates provided in local risk assessments. State-owned or operated critical facilities located in the identified hazard areas shall be addressed.” The methodology for this section varies by hazard due to available data and their attributes, and is more thoroughly discussed below.

The State of Ohio Department of Administrative Services (DAS) Risk Management Section currently maintains a listing of state-owned and state-leased facilities. State leased buildings are only tracked

if the lease requires that the state also insure the building. Both the state-owned and state-leased facility datasets are attributed and contain a geo-referenced point for each facility. The data includes facilities ranging from small salt buildings owned by the Department of Transportation (ODOT) to multi-story office buildings owned by DAS. While the previous state plans only evaluated structures whose values exceeded \$1 million, this plan evaluates all state-owned structures as many facilities crucial to response are worth much less than \$1 million. Additionally, the state leases nearly 300 facilities around the state, and a significant percentage of those are critical in nature. Therefore, it was deemed necessary to evaluate all state-owned and state-leased structures, and parse out those that are critical in nature.

A critical facility is defined as any facility whose services are necessary to the response and/or recovery operations following a disaster. Such facilities include (but are not limited to) administration office buildings, transportation facilities, highway patrol posts, armories, radio antenna towers etc. Also, numerous facilities exist at correctional institute complexes that are used for sheltering purposes immediately following a disaster, and such facilities include structures appurtenant and necessary to their function.

The state-owned and state-leased datasets are sufficient for vulnerability assessments, the state-owned dataset included estimated values for building and contents replacements and the state-leased dataset include estimated values for contents replacement. However, assumptions made for vulnerability using these datasets must be fairly general since additional attributed information is not complete. The majority of the datasets include year of construction, construction type, square footage, number of stories, etc. However, not all dataset include these pieces of information since the data were compiled through multi-agency efforts. As the data is refined and becomes more complete in the future, updates will be made to the methodologies used here for vulnerability assessments.

An additional dataset was acquired from the National Geospatial-Intelligence Agency in cooperation with FEMA. During DR-4002 recovery efforts, Ohio EMA worked with FEMA to gain access to the Homeland Security Infrastructure Program (HSIP) Gold Dataset 2011. The datasets are the products of collaborative efforts of various stakeholders in the Defense, Intelligence, and Homeland Security Communities. The data provides national critical infrastructure sectors as defined by Homeland Security. Much of the data is populated in major metropolitan areas, but gaps exist between highly populated areas. Additionally, replacement costs are not provided for various facilities, limiting the discussion on vulnerability in terms of dollars. The datasets are used to supplement the data obtained from DAS, especially for non-geographic hazards.

ESTIMATING POTENTIAL LOSSES OF STATE FACILITIES

44 CFR 201.4 (c) (2) (iii) – The risk assessment shall include “an overview and analysis of potential losses to identified structures, based on estimates provided in local risk assessments. The state shall estimate the potential dollar losses to state-owned or operated buildings, infrastructure, and critical facilities located in the identified hazard areas.”

As mentioned above, the state-owned and state-leased datasets are sufficient for loss estimations, as all state-owned and state-leased datasets include estimated values for replacement costs. However, assumptions made for losses using these datasets must be fairly general since additional attributed information is not complete. Many of the datasets include year of construction, construction type, square footage, number of stories, etc. However, not all of the data includes these pieces of information since the data was compiled through multi-agency efforts. As these datasets are refined and become more complete in the future, updates will be made to the methodologies used here for loss estimations.

A summary of the state-owned and state-leased facilities by county and agency is provided in Appendix C. It should be noted that facility specifics (i.e., facility name, location, etc.) are not listed in this plan due to increased security. Further information can be obtained from the Ohio DAS-Risk Management Section.

Tables 2.1.a – 2.1.c list state-owned critical and non-critical facility numbers and replacement values within each county. Currently, there are a total of 6,514 state-owned facilities (3,454 critical and 3,060 non-critical) throughout Ohio worth an estimated \$7.8 billion. For Region 1 there are 827 critical and 802 non-critical worth approximately \$974 million and \$235 million, respectively. The county with the largest dollar exposure of state-owned facilities is Lucas County with \$311 million. Lucas County also has the highest dollar exposure of critical facilities at \$275 million.

Presently, there are a total of 2,367 (1,586 critical and 781 non-critical) state-owned facilities in Region 2, worth an estimated \$5.3 billion. The estimated worth for the critical facilities is over \$4.3 billion, and non-critical is over \$1 billion. As would be expected, Franklin County, which contains the state capital, represents the majority of the dollar value with \$2.3 billion in state-owned facilities that include 230 critical in nature, worth approximately \$2.1 billion. The total number of state-owned facilities located in Region 3 is 2,518, representing over \$1.2 billion in worth. The estimated worth for critical facilities is \$1 billion, and \$262 million in non-critical facilities. Ross County has the highest dollar exposure of any county in the Region (\$272 million).

Tables 2.1.d – 2.1.f list state-leased critical and non-critical facility numbers and their respective replacement costs within each county. Currently, there is a total of 301 state facilities that are leased annually, of which 49 are critical to response and recovery following a disaster. For Region 1, there are 4 critical and 39 non-critical with approximately \$258,945 and \$3.1 million in replacement costs. Region 2 has 35 critical and 176 non-critical leases with replacement costs of \$53 million and \$76 million. In Region 3 has 10 state-leased critical facilities (\$3.9 million) and 46 state-leased non-critical facilities (\$3.9 million).

Table 2.1.a

Region 1 State-Owned Critical and Non-Critical Facilities						
County	Number of State-Owned Critical Facilities	Replaced Value of All State-Owned Critical Facilities	Number of Non-Critical State-Owned Facilities	Replacement Value of All Non-Critical Facilities	Total Number of State-Owned Facilities	Replaced Value of All State-Owned Facilities
Allen	117	\$89,669,386	16	\$31,275,411	133	\$120,944,797
Auglaize	20	\$11,036,162	65	\$9,296,282	85	\$20,332,444
Champaign	23	\$4,627,441	33	\$2,305,453	56	\$6,932,894
Clark	16	\$8,087,767	62	\$17,344,481	78	\$25,432,248
Crawford	12	\$9,677,920	0	–	12	\$9,677,920
Darke	24	\$6,650,078	4	\$41,246	28	\$6,691,324
Defiance	11	\$7,562,674	8	\$197,450	19	\$7,760,124
Erie	51	\$61,223,935	37	\$13,080,766	88	\$174,304,701
Fulton	14	\$3,170,048	34	\$465,870	48	\$3,635,918
Hancock	22	\$15,577,393	29	\$4,470,945	51	\$20,048,338
Hardin	10	\$3,013,095	5	\$137,500	15	\$3,150,595
Henry	13	\$2,547,412	25	\$2,642,000	38	\$5,189,412
Huron	21	\$9,763,256	4	\$239,989	25	\$10,003,245
Logan	0	–	82	\$11,386,440	82	\$11,386,440
Lucas	45	\$275,774,293	59	\$55,854,581	104	\$331,628,874
Marion	99	\$127,860,942	15	\$13,623,059	114	\$141,484,001
Mercer	24	\$5,649,522	2	\$349,500	26	\$5,999,022
Miami	22	\$9,293,386	20	\$3,809,669	42	\$13,103,055
Ottawa	74	\$64,951,967	114	\$34,016,339	188	\$98,968,306
Paulding	2	\$577,267	0	–	2	\$577,267
Preble	23	\$4,624,095	88	\$21,542,629	111	\$26,166,724
Putnam	15	\$2,763,489	0	–	15	\$2,763,489
Sandusky	14	\$4,765,069	7	\$1,426,250	21	\$6,191,319
Seneca	47	\$32,793,980	8	\$1,165,000	55	\$33,958,980
Shelby	34	\$26,176,043	25	\$2,835,996	59	\$29,012,039
Van Wert	12	\$6,521,545	9	\$770,598	21	\$7,292,143
Williams	10	\$4,071,906	6	\$3,013,200	16	\$7,085,106
Wood	34	\$66,951,677	21	\$1,962,240	55	\$68,913,917
Wyandot	18	\$9,513,296	24	\$2,676,850	42	\$12,190,146
REGIONAL TOTALS	827	\$974,895,044	802	\$235,929,744	1,629	\$1,210,824,788

Table 2.1.b

Region 2 State-Owned Critical and Non-Critical Facilities						
County	Number of State-Owned Critical Facilities	Replaced Value of All State-Owned Critical Facilities	Number of Non-Critical Facilities	Replacement Value of All Non-Critical Facilities	Total Number of State-Owned Facilities	Replaced Value of All State-Owned Facilities
Ashland	139	\$62,683,519	1	\$28,000	140	\$62,711,519
Butler	21	\$17,563,033	10	\$1,239,500	31	\$18,802,533
Clinton	21	\$10,968,912	47	\$4,684,708	68	\$15,653,620
Cuyahoga	75	\$241,066,599	4	\$2,792,701	79	\$243,859,300
Delaware	36	\$45,323,205	70	\$22,471,765	106	\$67,794,970
Fairfield	77	\$85,858,500	11	\$1,014,200	88	\$86,872,700
Fayette	20	\$4,117,291	18	\$2,346,501	38	\$6,463,792
Franklin	230	\$2,107,432,879	58	\$680,900,915	288	\$2,788,333,794
Geauga	21	\$6,690,893	50	\$11,133,092	71	\$17,823,985
Greene	20	\$8,473,508	14	\$162,640,206	34	\$171,113,714
Hamilton	31	\$169,769,037	3	\$1,344,677	34	\$171,113,714
Knox	31	\$38,333,377	2	\$58,750	33	\$38,392,127
Lake	20	\$5,337,835	30	\$6,301,773	50	\$11,639,608
Licking	58	\$152,379,393	30	\$11,446,588	88	\$163,825,981
Lorain	88	\$108,829,615	31	\$2,474,957	119	\$111,304,572
Madison	108	\$320,905,230	27	\$3,954,638	135	\$324,859,868
Medina	19	\$16,321,114	11	\$1,205,776	30	\$17,526,890
Montgomery	67	\$76,369,896	12	\$5,274,420	79	\$81,644,316
Morrow	20	\$6,306,221	15	\$497,625	35	\$6,803,846
Pickaway	131	\$194,421,509	76	\$37,335,516	207	\$231,757,025
Portage	20	\$6,530,887	79	\$16,047,980	99	\$22,578,867
Richland	71	\$108,516,010	47	\$12,081,234	118	\$120,597,244
Stark	37	\$99,410,340	4	\$3,781,250	41	\$103,191,590
Summit	64	\$198,041,224	46	\$8,907,138	110	\$206,948,362
Union	51	\$87,458,961	6	\$341,758	57	\$87,800,719
Warren	107	\$147,595,469	70	\$8,755,970	177	\$156,351,439
Wayne	3	\$5,646,013	9	\$1,549,085	12	\$7,195,098
REGIONAL TOTALS	1586	\$4,332,350,470	781	\$1,010,610,723	2367	\$5,342,961,193

Table 2.1.c

Region 3 State-Owned Critical and Non-Critical Facilities						
County	Number of State-Owned Critical Facilities	Replaced Value of All State-Owned Critical Facilities	Number of Non-Critical Facilities	Replacement Value of All Non-Critical Facilities	Total Number of State-Owned Facilities	Replaced Value of All State-Owned Facilities
Adams	19	\$3,210,607	9	\$1,033,950	28	\$4,244,557
Ashtabula	58	\$18,061,398	152	\$18,178,461	210	\$36,239,859
Athens	25	\$42,563,462	41	\$5,068,078	66	\$47,631,540
Belmont	59	\$51,854,471	27	\$2,347,130	86	\$54,201,601
Brown	12	\$31,554,442	14	\$2,662,140	26	\$34,216,582
Carroll	15	\$2,290,075	1	\$1,112,000	16	\$3,402,075
Clermont	37	\$17,540,161	52	\$9,058,025	89	\$26,598,186
Columbiana	34	\$11,011,455	24	\$5,814,746	58	\$16,826,201
Coshocton	14	\$8,669,467	10	\$1,002,473	24	\$9,671,940
Gallia	67	\$32,190,875	13	\$1,617,576	80	\$33,808,451
Guernsey	50	\$37,763,292	123	\$48,231,119	173	\$85,994,411
Harrison	26	\$6,944,911	15	\$2,002,170	41	\$8,947,081
Highland	6	\$8,833,500	53	\$5,612,487	59	\$14,445,987
Hocking	13	\$2,902,923	147	\$13,748,241	160	\$16,651,164
Jackson	23	\$8,964,361	17	\$7,466,364	40	\$16,430,725
Jefferson	35	\$7,162,401	20	\$3,654,238	55	\$10,816,639
Lawrence	24	\$8,724,700	4	\$275,125	28	\$8,999,825
Mahoning	63	\$71,570,175	16	\$10,976,579	79	\$82,546,754
Meigs	13	\$3,986,061	28	\$1,539,230	41	\$5,525,291
Monroe	18	\$7,714,545	7	\$201,319	25	\$7,915,864
Morgan	8	\$3,101,447	88	\$20,026,230	96	\$23,127,677
Muskingum	21	\$7,726,690	84	\$8,508,136	105	\$16,234,826
Noble	30	\$49,441,152	9	\$554,025	39	\$49,995,177
Perry	14	\$3,266,059	2	\$82,500	16	\$3,348,559
Pike	8	\$2,620,816	70	\$9,446,266	78	\$12,067,082
Ross	134	\$259,985,420	125	\$12,209,032	259	\$272,194,452
Scioto	47	\$166,624,490	69	\$21,485,873	116	\$188,110,363
Trumbull	57	\$53,145,813	57	\$4,746,863	114	\$57,892,676
Tuscarawas	49	\$53,883,450	50	\$8,970,141	99	\$62,853,591
Vinton	16	\$3,074,322	124	\$21,690,842	140	\$24,765,164
Washington	46	\$21,811,660	26	\$13,208,305	72	\$35,019,965
REGIONAL TOTALS	1041	\$1,008,194,601	1477	\$262,529,664	2518	\$1,270,724,265

Table 2.1.d

Region 1 State-Leased Critical and Non-Critical Facilities						
County	Number of State-Leased Critical Facilities	Total Value of Building/Contents of All State-Leased Critical Facilities	Number of State-Leased Non-Critical Facilities	Total Value of Building/Contents of All State-Leased Non-Critical Facilities	Total Number of State-Leased Facilities	Total Value of Building/Contents of All State-Leased Facilities
Allen	1	\$106,416	2	\$856,366	3	\$962,782
Auglaize	0	\$0	1	\$46,913	1	\$46,913
Champaign	0	\$0	1	\$37,988	1	\$37,988
Clark	0	\$0	2	\$72,425	2	\$72,425
Crawford	0	\$0	1	\$30,487	1	\$30,487
Darke	0	\$0	1	\$27,080	1	\$27,080
Defiance	0	\$0	1	\$24,259	1	\$24,259
Erie	0	\$0	1	\$34,154	1	\$34,154
Fulton	0	\$0	1	\$67,554	1	\$67,554
Hancock	0	\$0	1	\$37,171	1	\$37,171
Hardin	1	\$20,000	1	\$49,005	2	\$69,005
Henry	0	\$0	1	\$54,378	1	\$54,378
Huron	0	\$0	1	\$45,858	1	\$45,858
Logan	0	\$0	1	\$32,372	1	\$32,372
Lucas	1	\$203,366	10	\$1,121,270	11	\$1,324,636
Marion	0	\$0	1	\$87,996	1	\$87,996
Mercer	0	\$0	1	\$32,253	1	\$32,253
Miami	0	\$0	1	\$49,112	1	\$49,112
Ottawa	0	\$0	1	\$67,529	1	\$67,529
Paulding	0	\$0	1	\$38,342	1	\$38,342
Preble	0	\$0	1	\$52,707	1	\$52,707
Putnam	0	\$0	1	\$43,687	1	\$43,687
Sandusky	0	\$0	1	\$54,183	1	\$54,183
Seneca	0	\$0	1	\$50,077	1	\$50,077
Van Wert	0	\$0	1	\$28,524	1	\$28,524
Williams	0	\$0	1	\$30,022	1	\$30,022
Wood	1	\$199,166	1	\$47,231	2	\$246,397
Wyandot	0	\$0	1	\$50,678	1	\$50,678
REGIONAL TOTALS	4	\$528,948	39	\$3,169,621	43	\$3,698,569

Table 2.1.e

Region 2 State-Leased Critical and Non-Critical Facilities						
County	Number of State-Leased Critical Facilities	Total Value of Building/Contents of All State-Leased Critical Facilities	Number of State-Leased Non-Critical Facilities	Total Value of Building/Contents of All State-Leased Non-Critical Facilities	Total Number of State-Leased Facilities	Total Value of Building/Contents of All State-Leased Facilities
Ashland	0	\$0	1	\$27,322	1	\$27,322
Butler	0	\$0	4	\$198,726	4	\$198,726
Clinton	0	\$0	1	\$419,685	1	\$419,685
Cuyahoga	1	\$203,366	13	\$3,966,473	14	\$4,169,839
Delaware	0	\$0	2	\$129,094	2	\$129,094
Fayette	5	\$608,500	1	\$44,150	6	\$652,650
Franklin	13	\$34,492,382	100	\$68,636,110	113	\$103,128,492
Geauga	0	\$0	1	\$50,737	1	\$50,737
Greene	4	\$1,366,335	1	\$75,729	5	\$1,442,064
Hamilton	3	\$3,167,336	5	\$1,590,142	8	\$4,757,478
Knox	0	\$0	1	\$36,976	1	\$36,976
Lake	0	\$0	2	\$117,015	2	\$117,015
Licking	2	\$13,363,695	2	\$128,831	4	\$13,492,526
Lorain	0	\$0	4	\$160,728	4	\$160,728
Madison	0	\$0	1	\$54,644	1	\$54,644
Medina	1	\$200,000	3	\$35,664	4	\$235,664
Montgomery	2	\$248,600	7	\$912,612	9	\$1,161,212
Morrow	0	\$0	1	\$25,707	1	\$25,707
Pickaway	0	\$0	1	\$65,219	1	\$65,219
Portage	3	\$234,600	1	\$61,748	4	\$296,348
Richland	0	\$0	3	\$913,831	3	\$913,831
Stark	0	\$0	5	\$1,157,612	5	\$1,157,612
Summit	0	\$0	10	\$646,677	10	\$646,677
Union	0	\$0	1	\$67,647	1	\$67,647
Warren	0	\$0	3	\$108,011	3	\$108,011
Wayne	1	\$31,907	2	\$84,626	3	\$116,533
REGIONAL TOTALS	35	\$53,916,721	176	\$79,715,716	211	\$133,632,437

Table 2.f

Region 3 State-Leased Critical and Non-Critical Facilities						
County	Number of State-Leased Critical Facilities	Total Value of Building/Contents of All State-Leased Critical Facilities	Number of State-Leased Non-Critical Facilities	Total Value of Building/Contents of All State-Leased Non-Critical Facilities	Total Number of State-Leased Facilities	Total Value of Building/Contents of All State-Leased Facilities
Adams	0	\$0	1	\$55,406	1	\$55,406
Ashtabula	0	\$0	1	\$51,787	1	\$51,787
Athens	1	\$203,366	2	\$140,711	3	\$344,077
Belmont	0	\$0	2	\$65,489	2	\$65,489
Brown	1	\$625,000	1	\$59,053	2	\$684,053
Carroll	0	\$0	1	\$198,726	1	\$198,726
Clermont	0	\$0	3	\$135,681	3	\$135,681
Columbiana	0	\$0	1	\$48,841	1	\$48,841
Coshocton	1	\$1,250,000	1	\$30,605	2	\$1,280,605
Gallia	0	\$0	1	\$38,043	1	\$38,043
Guernsey	1	\$165,562	2	\$492,525	3	\$658,087
Harrison	0	\$0	1	\$46,382	1	\$46,382
Highland	1	\$145,600	1	\$39,235	2	\$184,835
Hocking	1	\$172,150	1	\$12,685	2	\$184,835
Holmes	0	\$0	1	\$36,342	1	\$36,342
Jackson	0	\$0	1	\$46,916	1	\$46,916
Jefferson	0	\$0	2	\$82,088	2	\$82,088
Lawrence	0	\$0	1	\$34,434	1	\$34,434
Mahoning	1	\$15,434	1	\$15,434	2	\$30,868
Meigs	0	\$0	1	\$39,508	1	\$39,508
Monroe	0	\$0	1	\$48,917	1	\$48,917
Morgan	0	\$0	1	\$41,739	1	\$41,739
Muskingum	0	\$0	1	\$65,613	1	\$65,613
Noble	0	\$0	1	\$40,702	1	\$40,702
Perry	0	\$0	1	\$41,314	1	\$41,314
Pike	0	\$0	1	\$24,534	1	\$24,534
Ross	1	\$937,500	2	\$162,488	3	\$1,099,988
Scioto	1	\$122,770	3	\$560,551	4	\$683,321
Trumbull	1	\$300,300	4	\$1,082,976	5	\$1,383,276
Tuscarawas	0	\$0	2	\$71,722	2	\$71,722
Vinton	0	\$0	1	\$47,161	1	\$47,161
Washington	0	\$0	2	\$134,233	2	\$134,233
REGIONAL TOTALS	10	\$3,937,682	46	\$3,991,841	56	\$7,929,523