

MAR 01 2016



U.S. Department of Homeland Security  
Region V  
536 S. Clark St., 6th Floor  
Chicago, IL 60605-1509

**FEMA**

Mr. Steve Ferryman  
Mitigation and Recovery Branch Chief  
Ohio Emergency Management Agency  
2855 W. Dublin-Granville Road  
Columbus, Ohio 43235-2206

Dear Mr. Ferryman:

Thank you for submitting the adoption documentation for the Clinton County Hazard Mitigation Plan update. The plan was reviewed based on the local plan criteria contained in 44 CFR Part 201, as authorized by the Disaster Mitigation Act of 2000. Clinton County met the required criteria for a multi-jurisdiction hazard mitigation plan and the plan is now approved for the County. Please submit all remaining adoption resolutions for those participating communities.

The approval of this plan ensures continued availability of the full complement of Hazard Mitigation Assistance (HMA) Grants. All requests for funding, however, will be evaluated individually according to the specific eligibility and other requirements of the particular program under which the application is submitted.

We encourage Clinton County and the participating jurisdictions follow the plan's schedule for monitoring and updating the plan, and continue their efforts to implement the mitigation measures. The expiration date of the Clinton County Plan is five years from the date of this letter. In order to continue project grant eligibility, the plan must be reviewed, revised as appropriate, resubmitted, and approved no later than the plan expiration date.

Please pass on our congratulations to Clinton County and the participating jurisdictions for this significant action. If you or the County have any questions, please contact Tom Smith at (312) 408-5220 or [Thomas.Smith6@fema.dhs.gov](mailto:Thomas.Smith6@fema.dhs.gov).

Sincerely,

Christine Stack, Director  
Mitigation Division

## Appendix II-1.0

### RISK ASSESSMENT: METHODOLOGY, FACTORS AND VALUES

The analysis used by Clinton County was taken from the State of Ohio Hazard Analysis and Risk Assessment publication dated January 1998. The hazards affecting Ohio were evaluated using eight factors: Historical Occurrence, Affected Area, Collateral Damage, Warning Time, Population Impact, Fiscal Effects, Duration and Response/Recovery Time. Factors were assigned an even-number numerical value ranging between 2 and 8. The sum totals of factor values were then added, allowing hazards to be compared against each other using the totals.

#### HISTORICAL OCCURRENCE

If there is a likelihood of a hazard occurring more than five times within a ten year period, then that hazard has a low probability. If it is likely to occur up to ten times within ten years, it has a medium probability. If the hazard is likely to occur more than ten times in ten years, it has a high probability. There is an excessive probability if the hazard is likely to occur ten or more times in one year.

2	4	6	8
Low	Medium	High	Excessive

#### AFFECTED AREA

Each hazard affects a geographic area. A blizzard can affect several states and a flood might only affect a neighborhood creek. Numerical values have been assigned that represent the size of the affected area. Example – A tornado might strike a village, a city, or part of a township within the county. This would be a single site. If it strikes more than one village, city or other sites within a township then there would be multiple sites. If the tornado causes damage at multiple sites in two townships the affected sites would be considered a small area. If the tornado affects sites in three or more townships or an entire county, then for purpose of the hazard analysis, it is in a large area.

2	4	6	8
Low	Medium	High	Excessive

#### COLLATERAL DAMAGE

This effect/factor has also been called a secondary event. For example, in addition to all the damage caused by an earthquake, the earthquake may also cause failure of a dam. The dam failure also causes water damage. In the failure of that dam, the collateral or secondary damage is a hazard that was caused by the occurrence of another hazard.

2	4	6	8
No Possibility 0%	Some Possibility 25-50%	Much Possibility 51-75%	High Possibility 76%+

## Appendix II-1.1

### Risk Analysis

The natural hazards affecting Clinton County were selected based on two criteria:

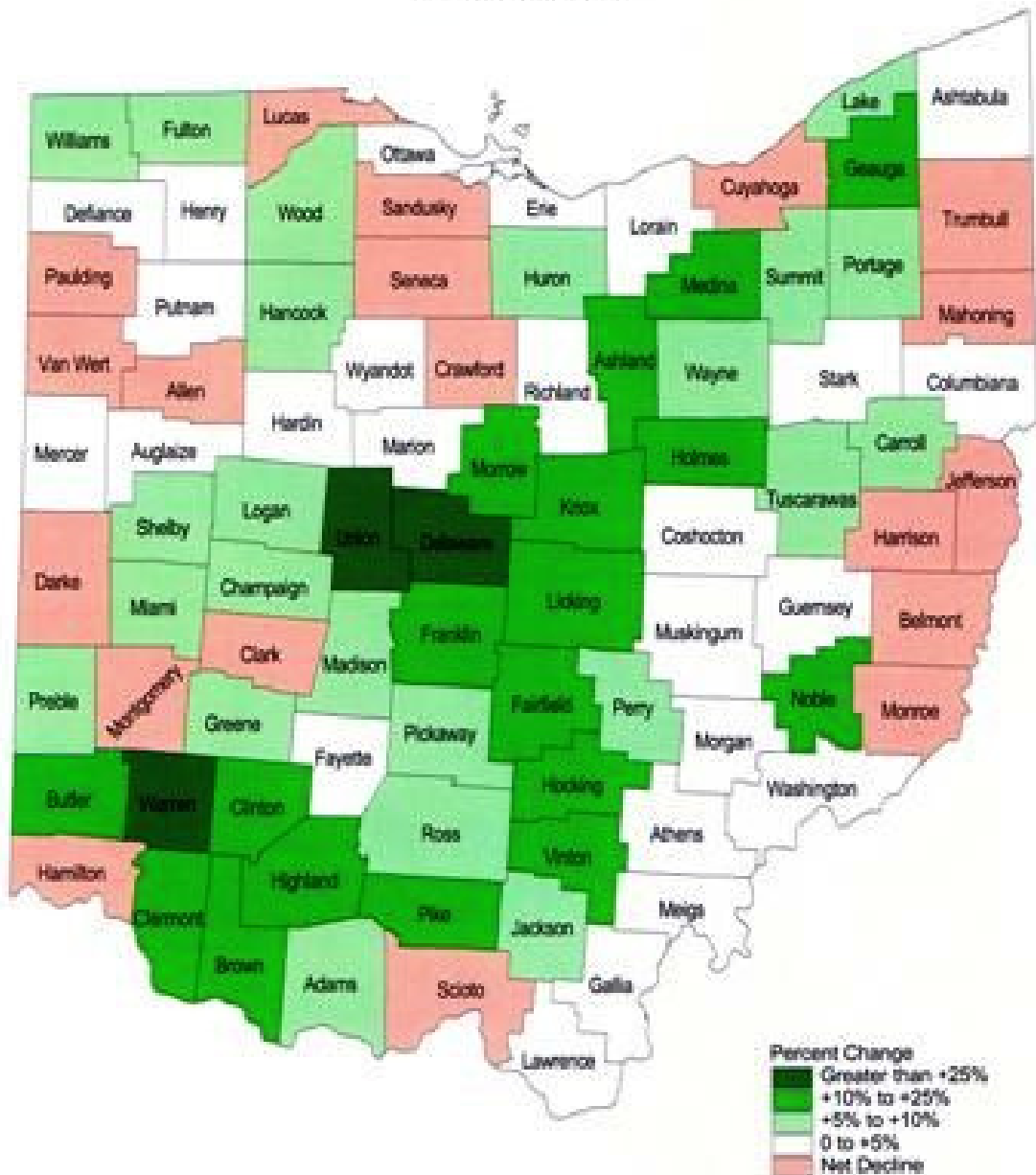
1. Historical basis and documentation of past events.
2. The possibility of an event occurring.

Using the Risk Assessment: Methodology, Factors and Values, the natural hazards identified from historical basis and documentation of past events were ranked according to the eight factors indicated. The ranking of these hazards are indicated in the table below.

EVENT	FACTORS	VALUES
Tornado/Thunderstorms Wind/Hail Storms	<ul style="list-style-type: none"> <li>◦ Historical Occurrence</li> <li>◦ Affected Area</li> <li>◦ Collateral Damage</li> <li>◦ Warning Time</li> <li>◦ Population Impact</li> <li>◦ Fiscal Effects</li> <li>◦ Duration</li> <li>◦ Response/Recovery Time</li> </ul>	6 8 4 6 4 8 2 4  Total: 42
Snow Storm	<ul style="list-style-type: none"> <li>◦ Historical Occurrence</li> <li>◦ Affected Area</li> <li>◦ Collateral Damage</li> <li>◦ Warning Time</li> <li>◦ Population Impact</li> <li>◦ Fiscal Effects</li> <li>◦ Duration</li> <li>◦ Response/Recovery Time</li> </ul>	2 8 4 2 4 8 6 4  Total: 38
Drought / Heat	<ul style="list-style-type: none"> <li>◦ Historical Occurrence</li> <li>◦ Affected Area</li> <li>◦ Collateral Damage</li> <li>◦ Warning Time</li> <li>◦ Population Impact</li> <li>◦ Fiscal Effects</li> <li>◦ Duration</li> <li>Response/Recovery Time</li> </ul>	2 8 2 2 4 8 8 2  Total: 36
Floods	<ul style="list-style-type: none"> <li>◦ Historical Occurrence</li> <li>◦ Affected Area</li> <li>◦ Collateral Damage</li> <li>◦ Warning Time</li> <li>◦ Population Impact</li> <li>◦ Fiscal Effects</li> <li>◦ Duration</li> <li>Response/Recovery Time</li> </ul>	2 2 2 2 2 6 6 4  Total: 26

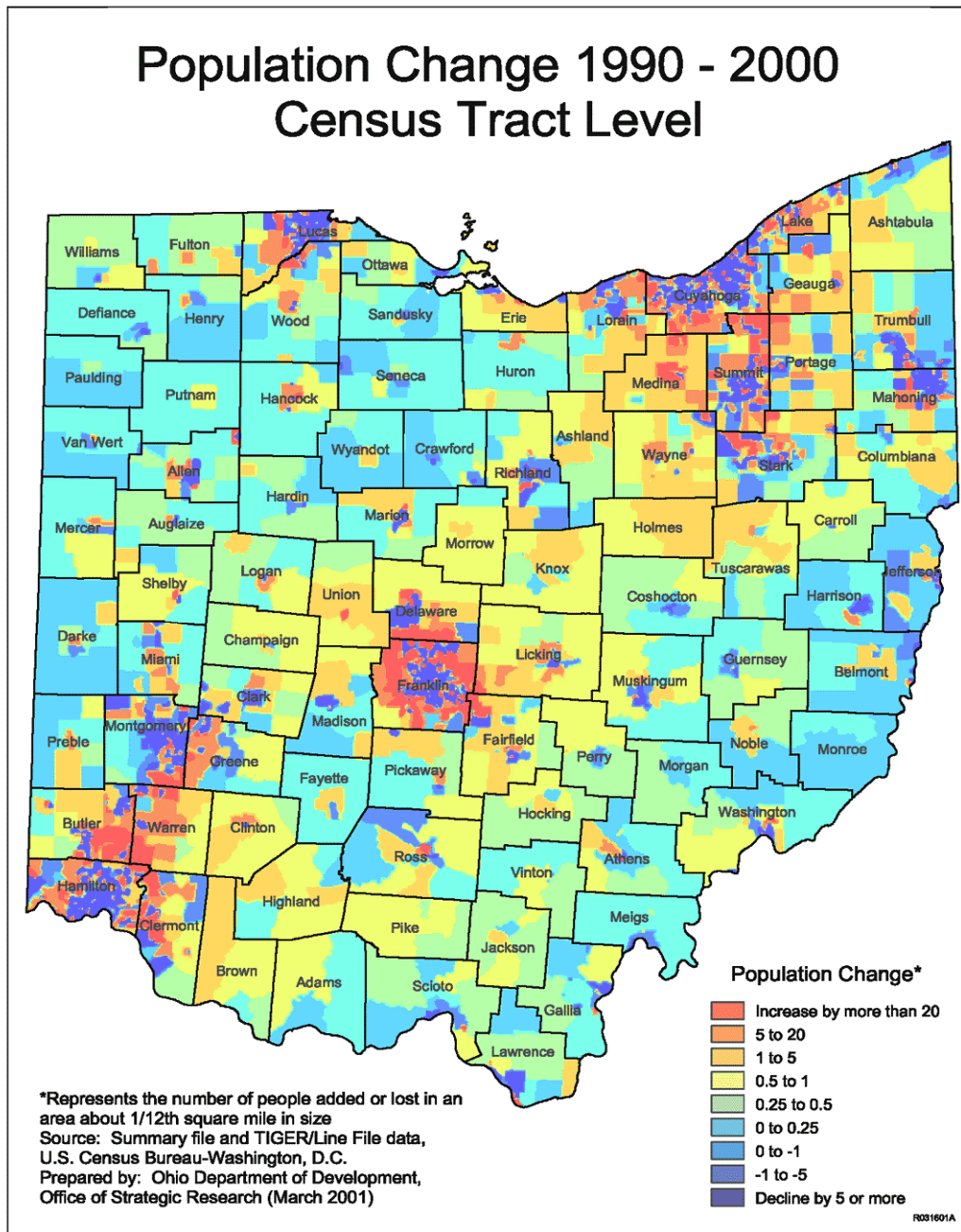
## Appendix II-2.0

### County Population Change 1990 to 2000 In Percent



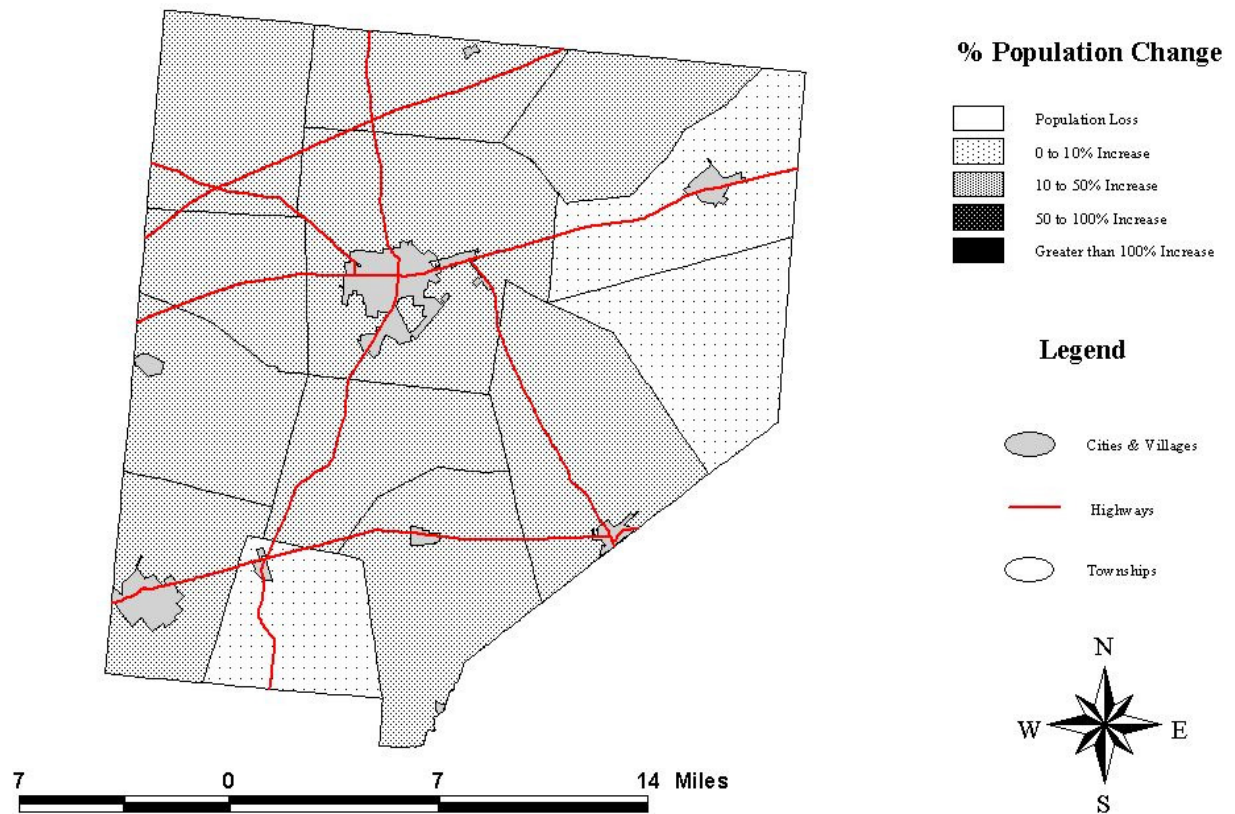
Source: U.S. Bureau of the Census.  
Prepared by: Office of Strategic Research, Ohio Department of Development, (March 2001).

## Appendix II-2.0



## Appendix II-2.0

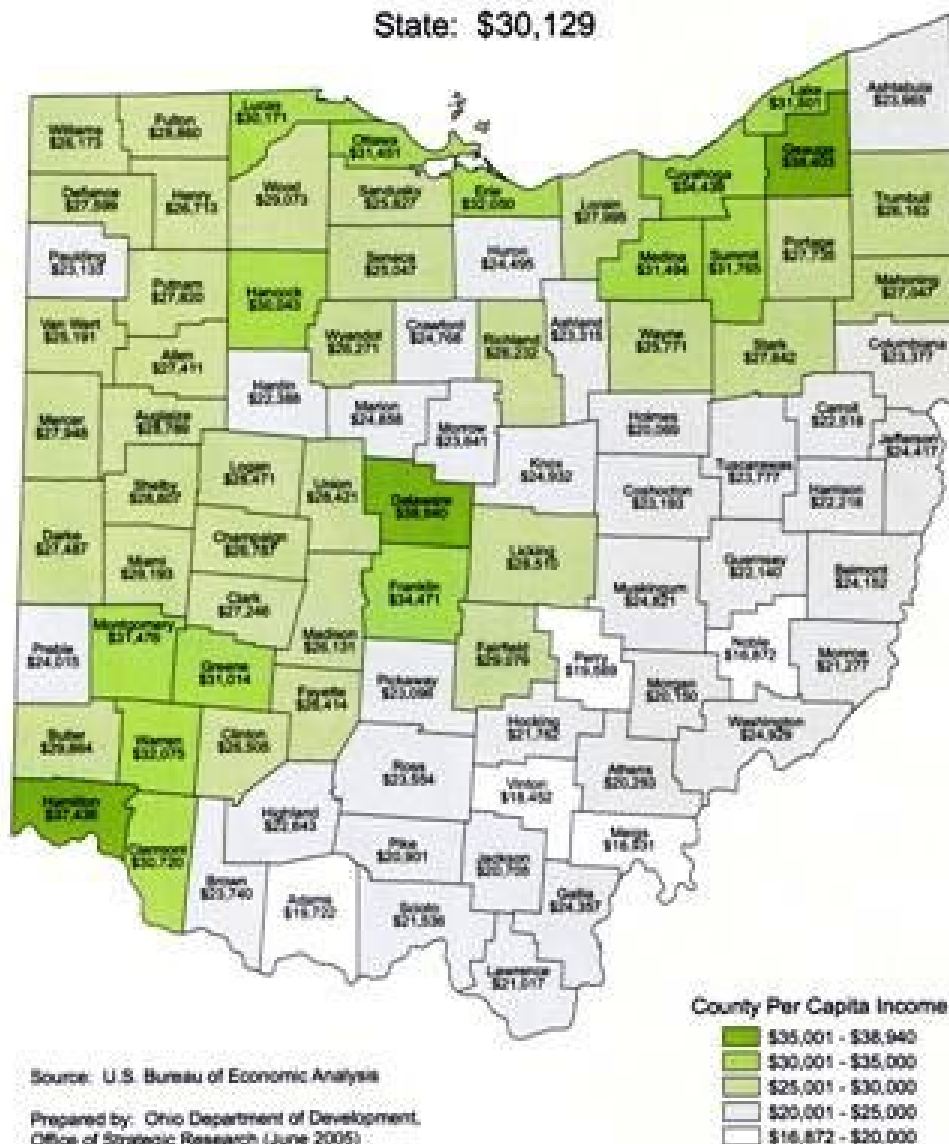
**Map 3: Percentage Population Change 1990 to 2000  
Clinton County**



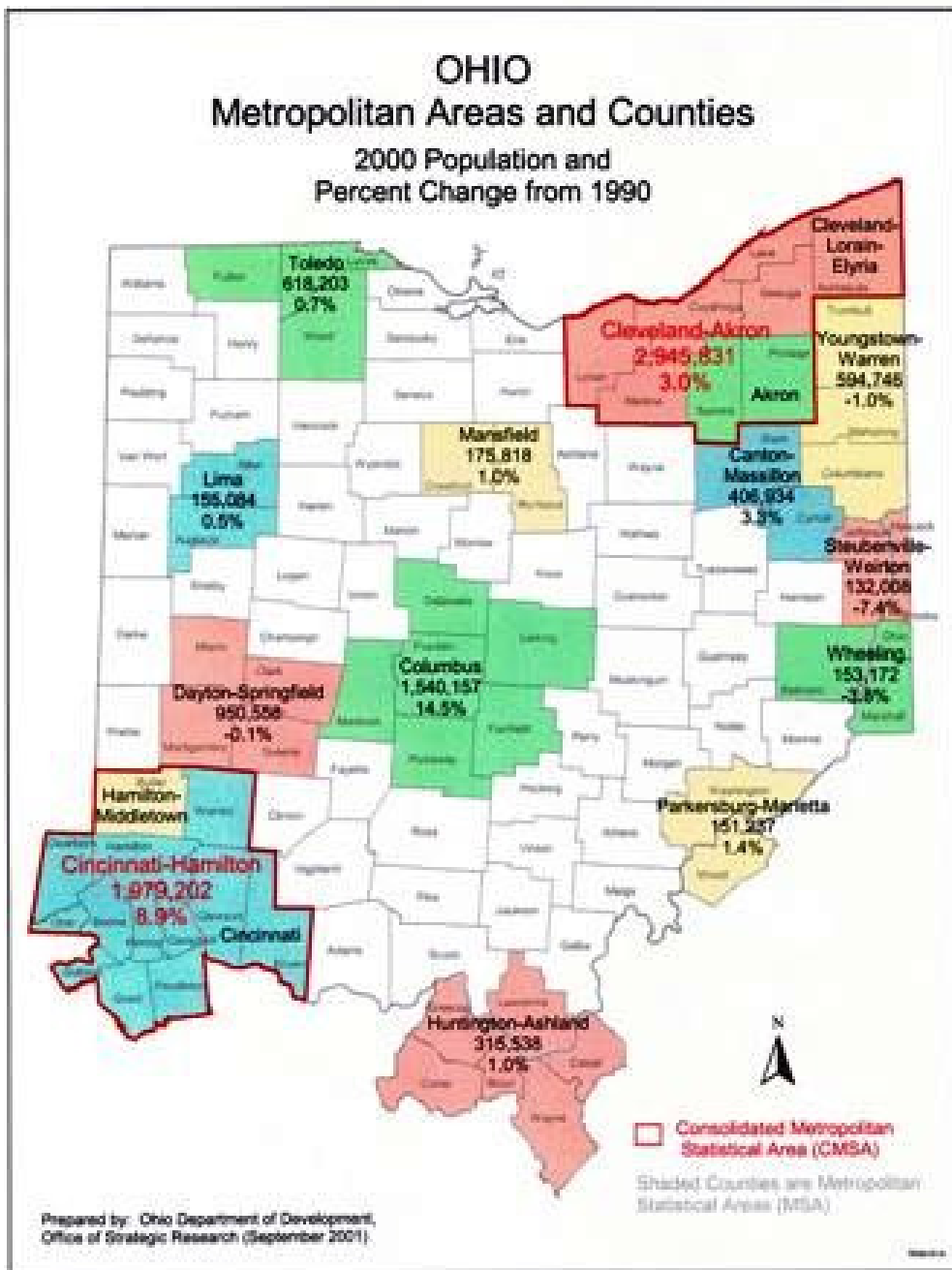


## 37

**State: \$30,129**

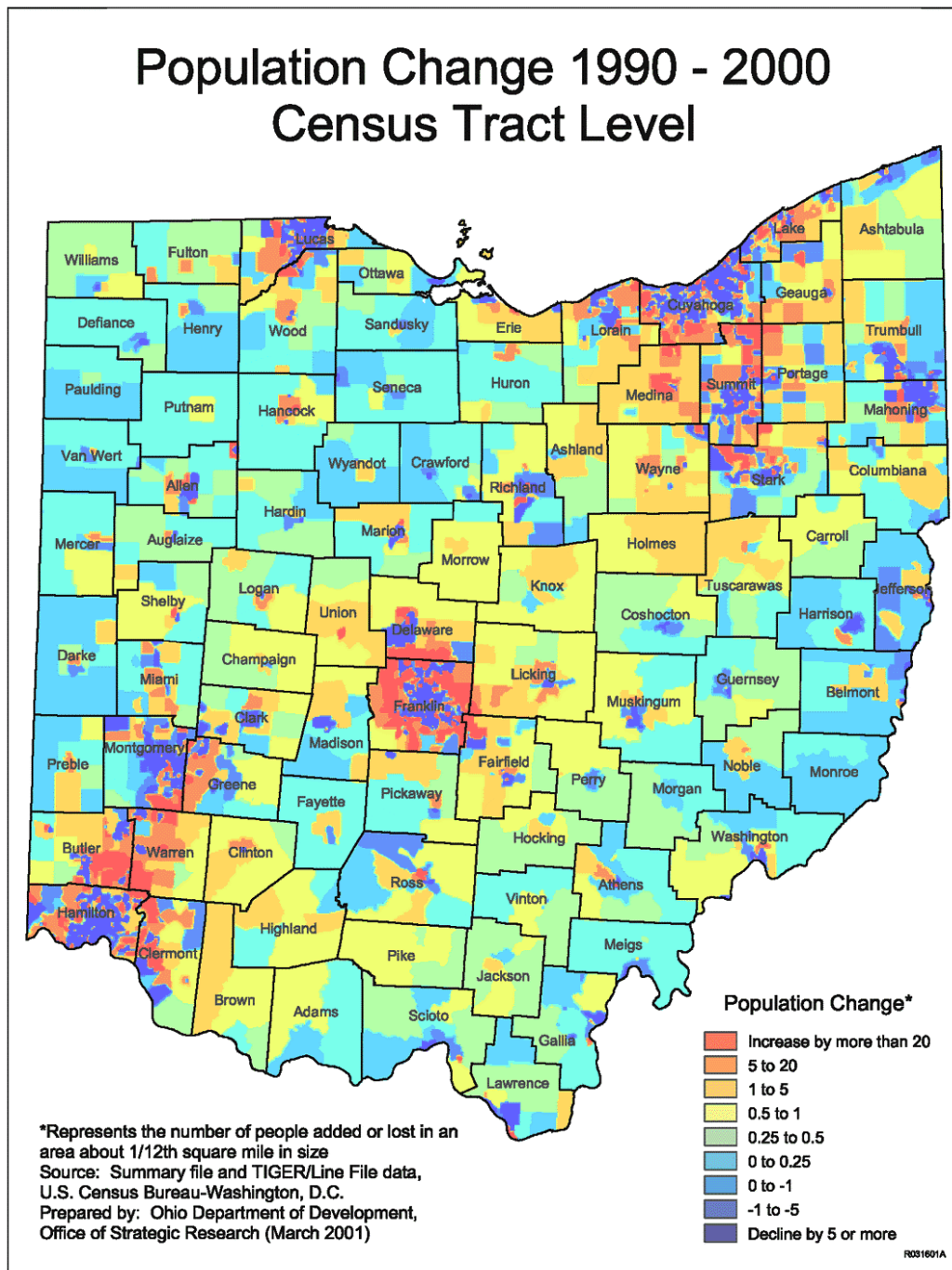


## Appendix II-2.0

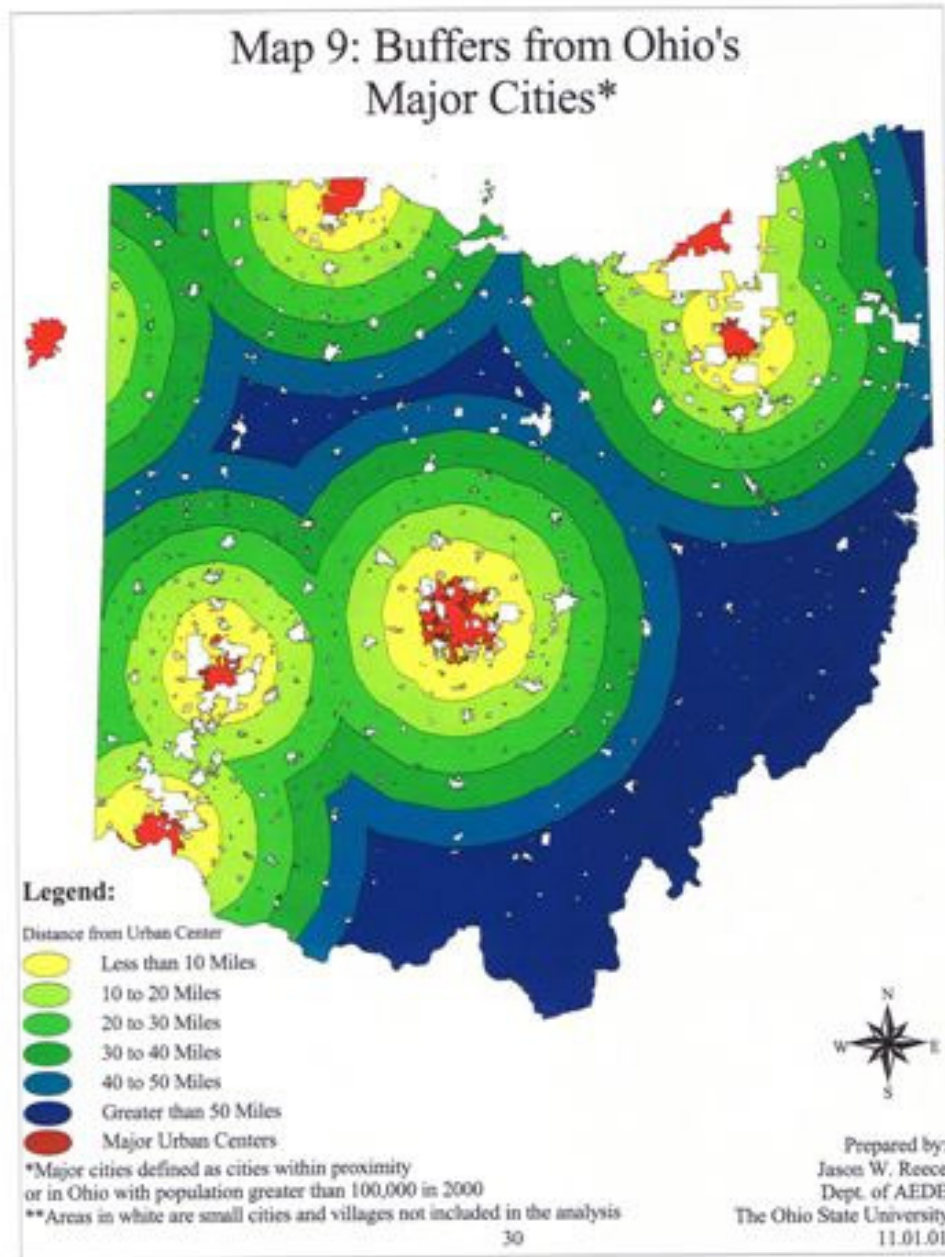




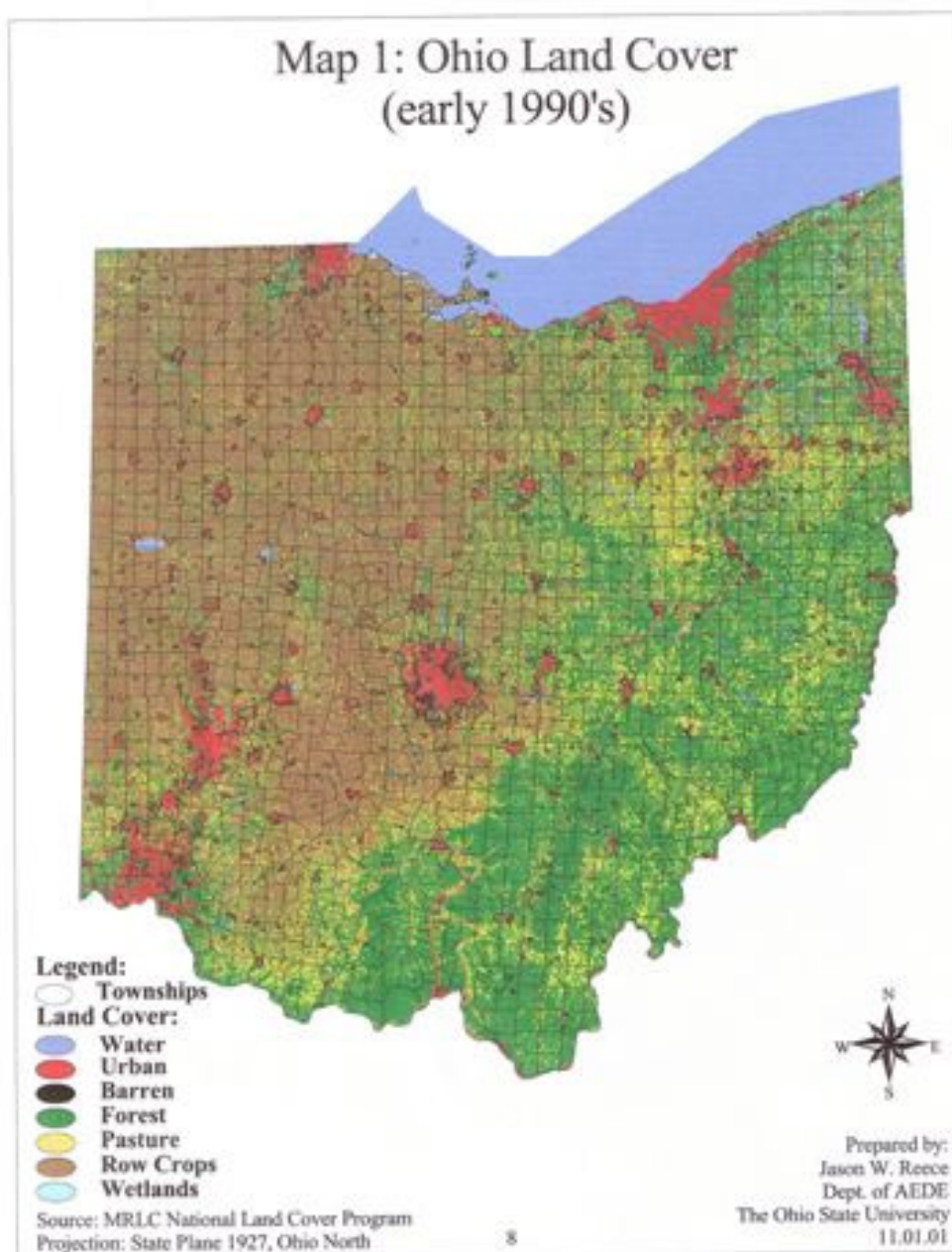
## Appendix II-2.0



## Appendix II-2.0



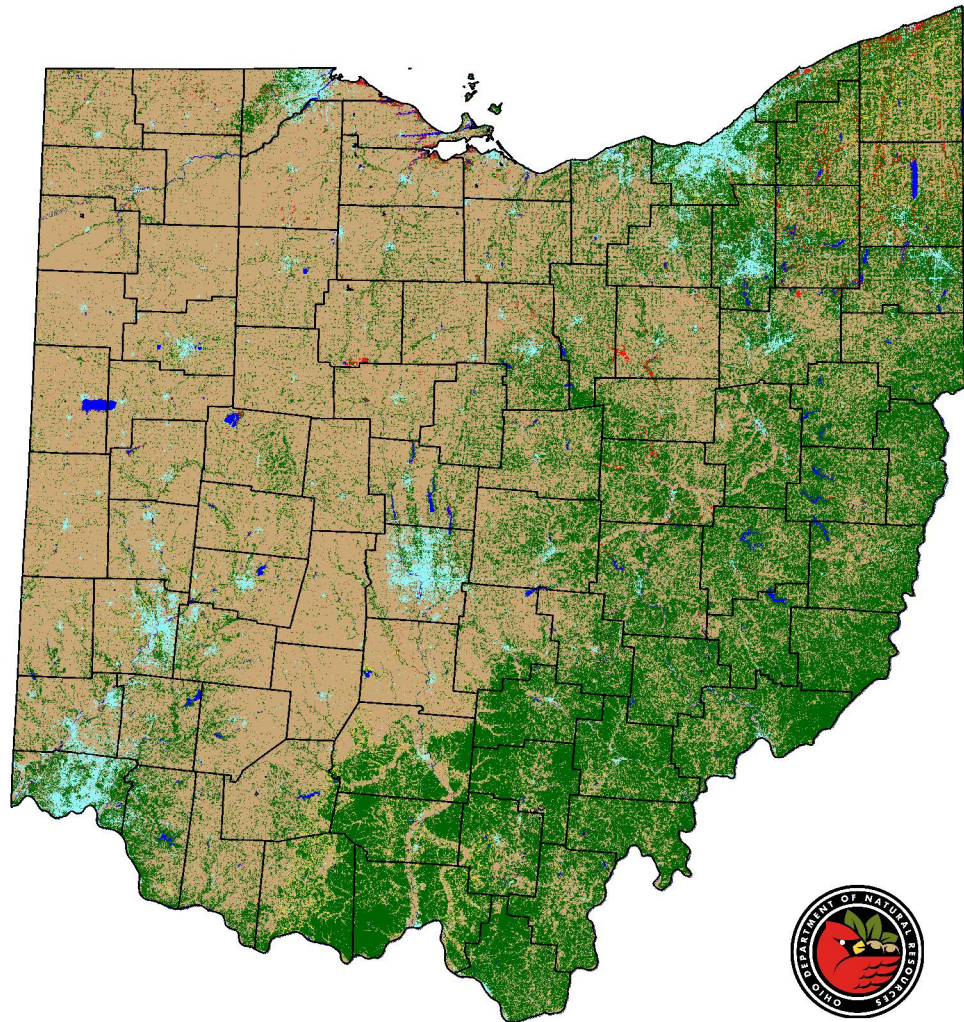
## Appendix II-2.0





## Appendix II-2.0

### OHIO 1994 LAND COVER



#### COVER TYPE

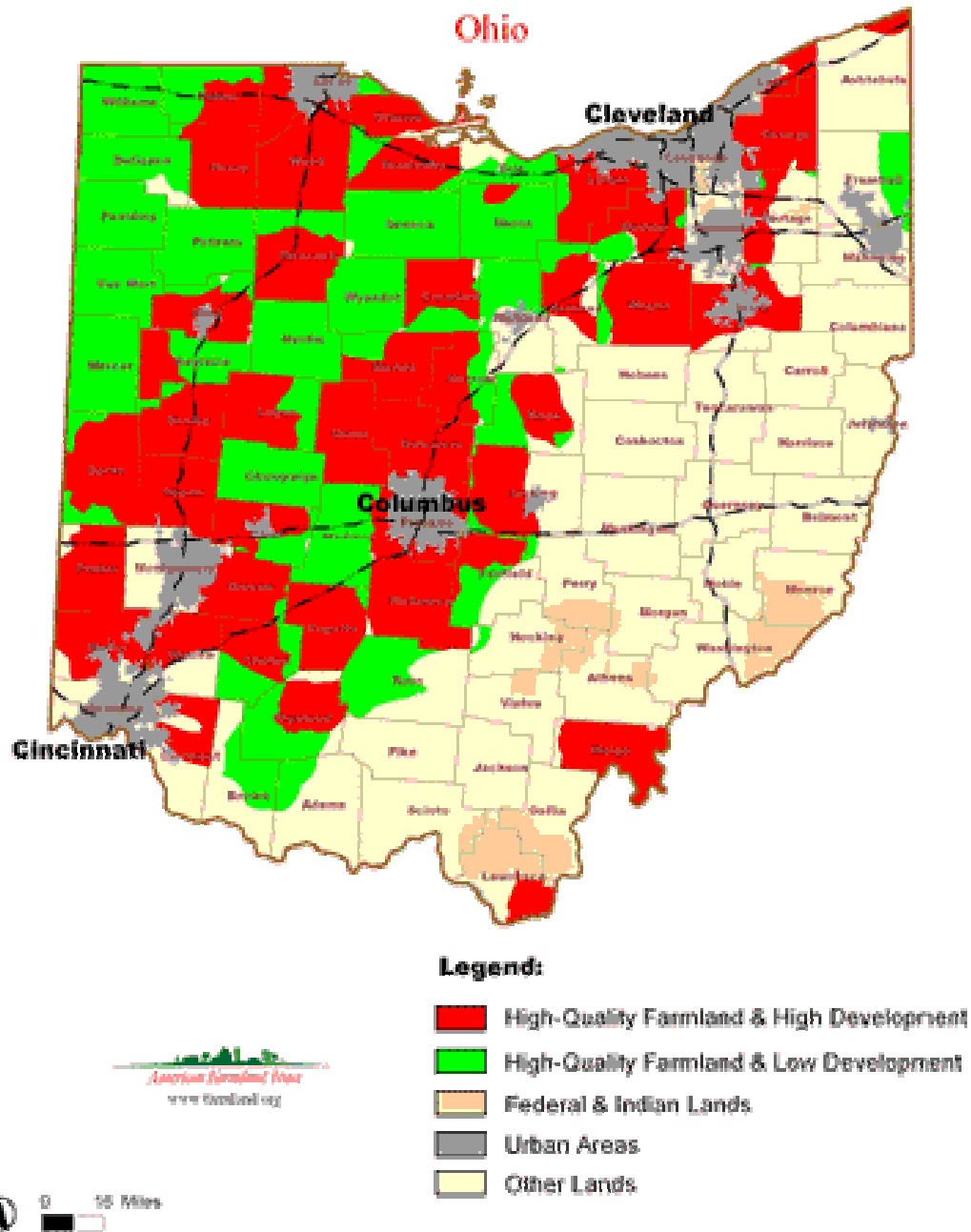
- Urban (open impervious surfaces)
- Agriculture / Open Urban Areas (non-impervious, eg. lawns)
- Shrub / Scrub
- Wooded

#### COVER TYPE

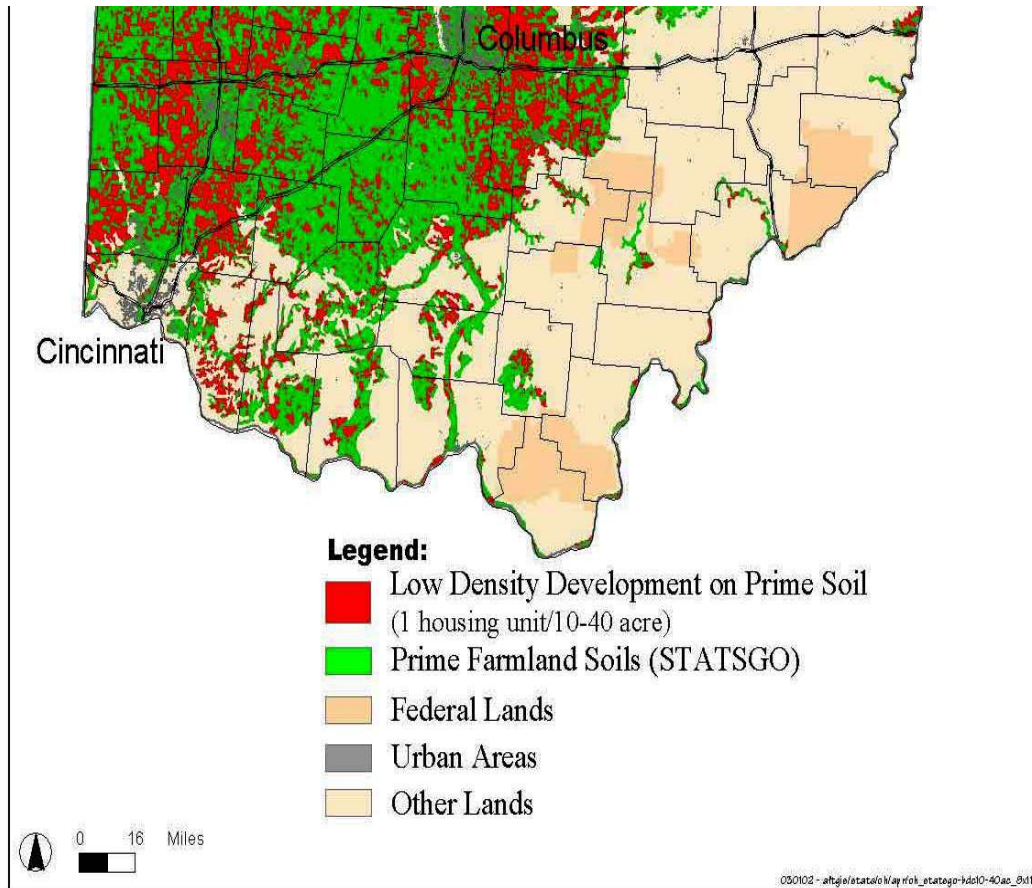
- Open Water
- Non-Forested Wetlands
- Barren (Strip Mines, Quarries, Sand & Gravel Pits)

## Appendix II-2.0

### FARMING ON THE EDGE Sprawling Development Threatens America's Best Farmland Ohio



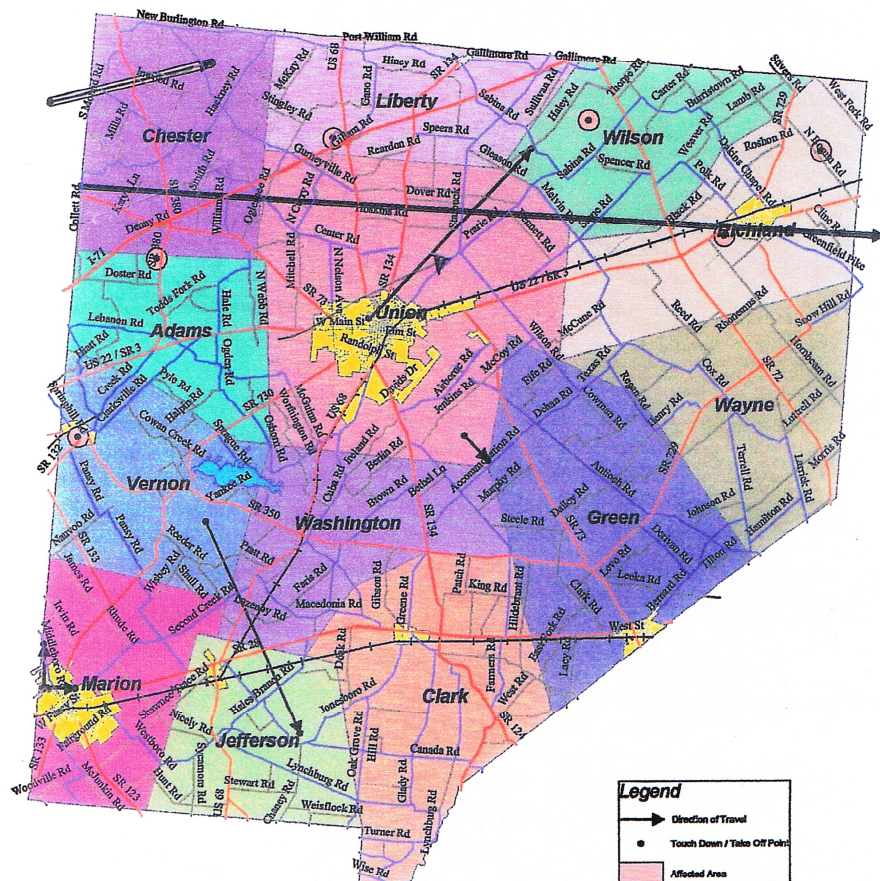
## Appendix II-2.0





## Appendix II-2.0

### Clinton County Tornado's 1950 - 2002



1 inch equals 4 miles

Printed 03/11/2003

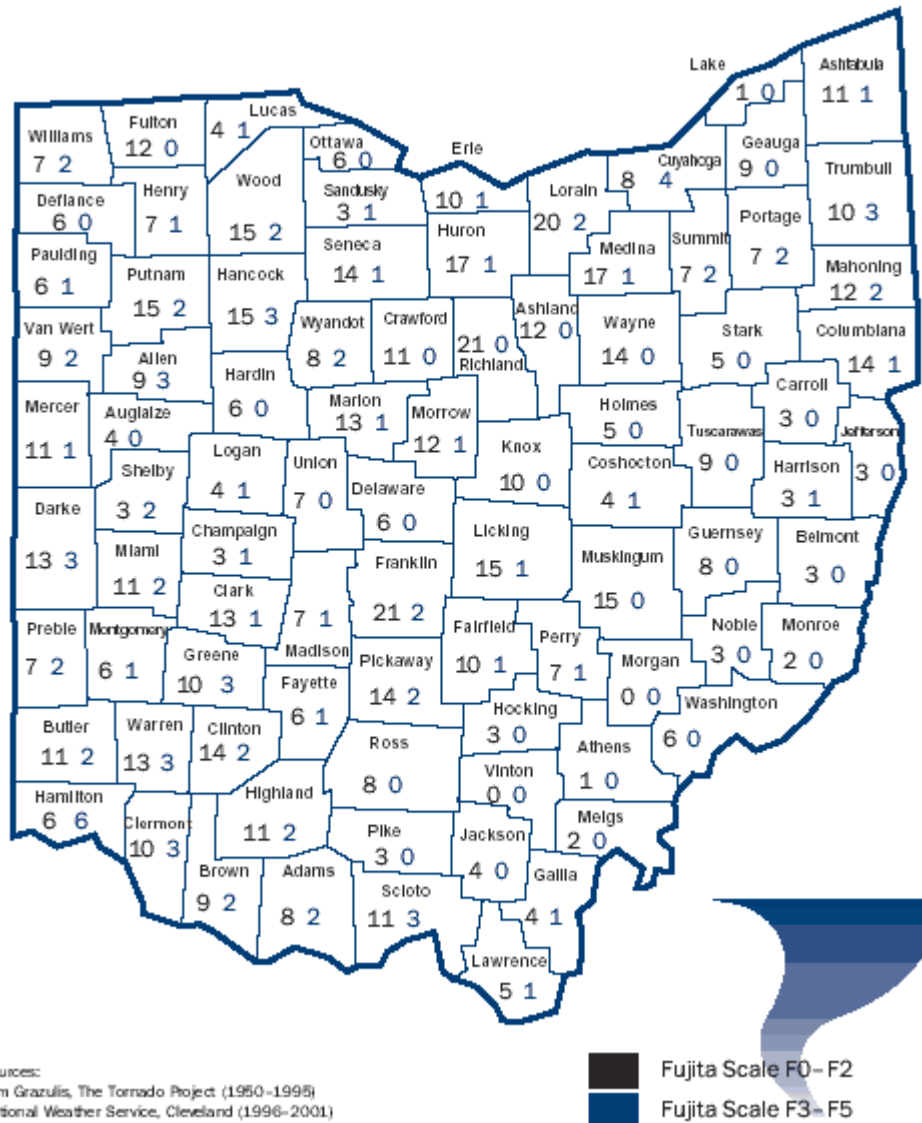
Clinton County



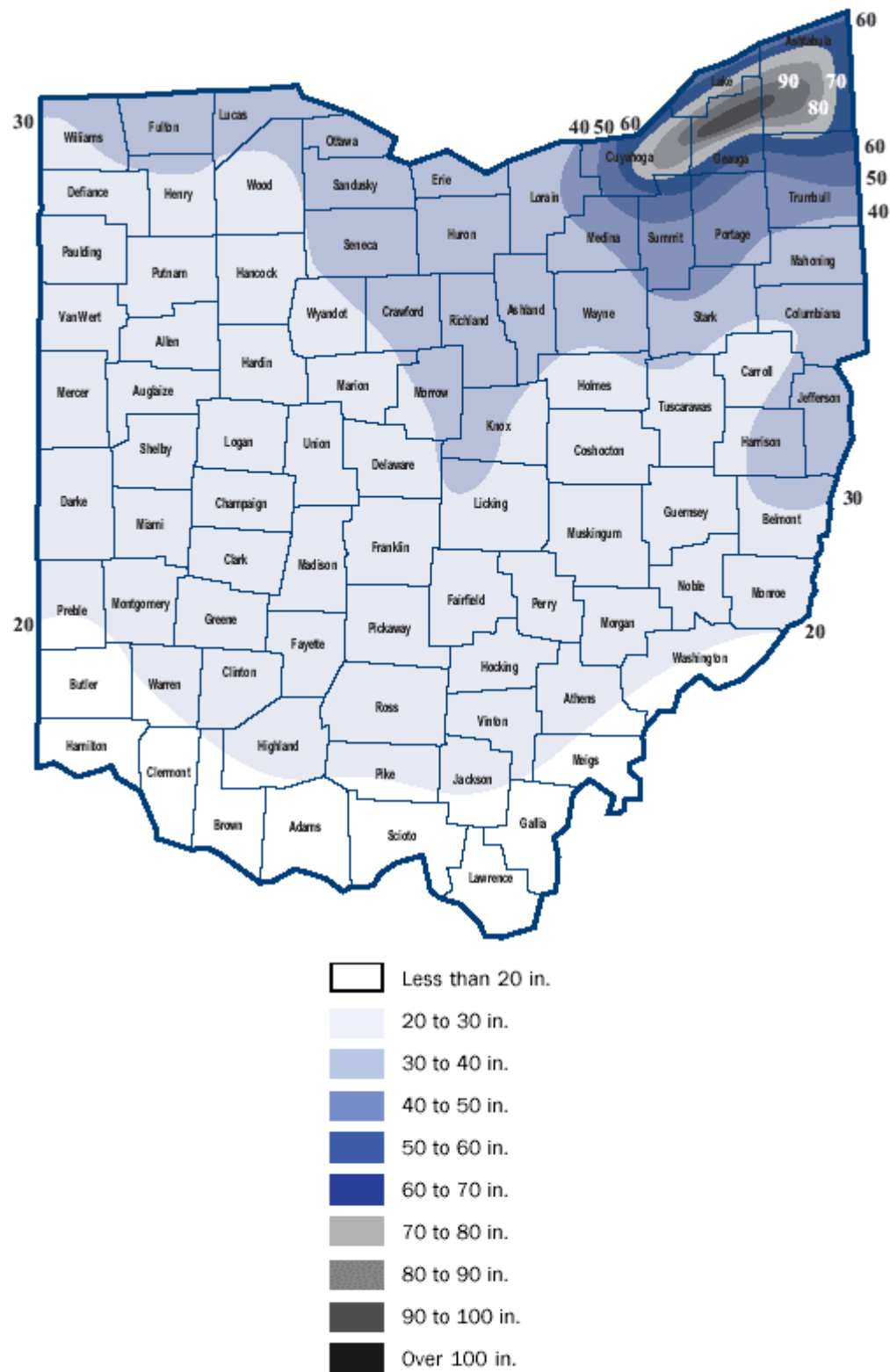


## Appendix II-2.0

### Ohio Tornadoes 1950–2001



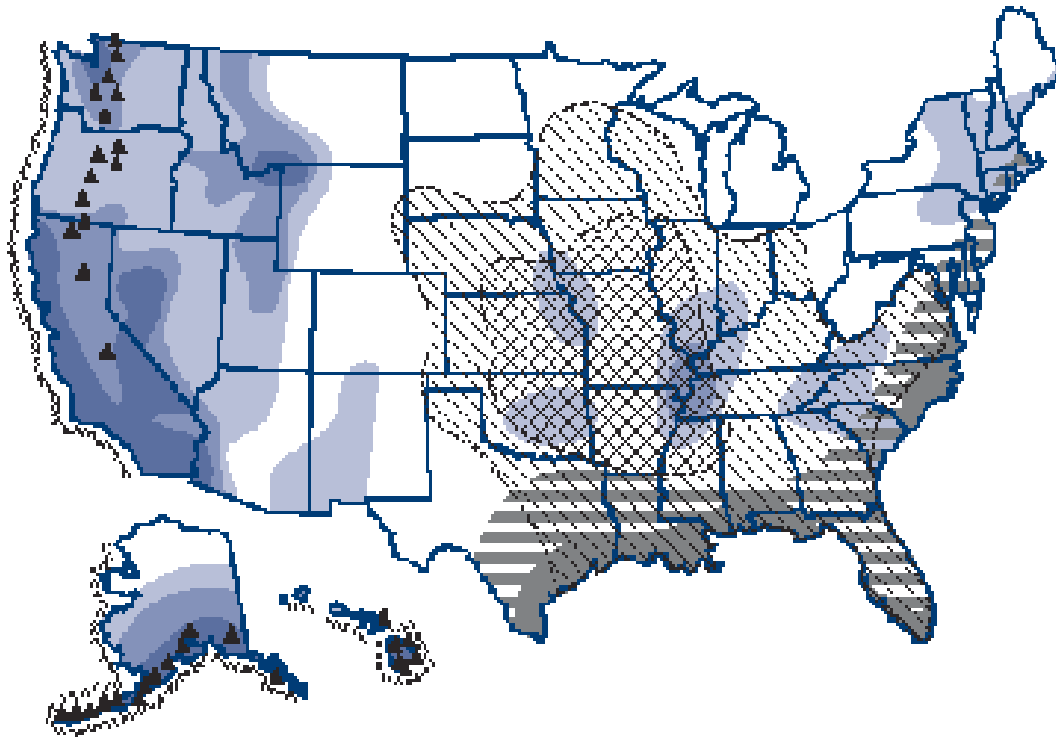
## Appendix II-2.0



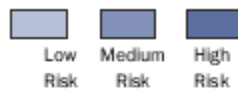
Source: National Weather Service

## Natural Disaster Risk Profile

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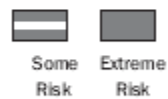
### Earthquakes



### Tornadoes



### Hurricanes



### Other

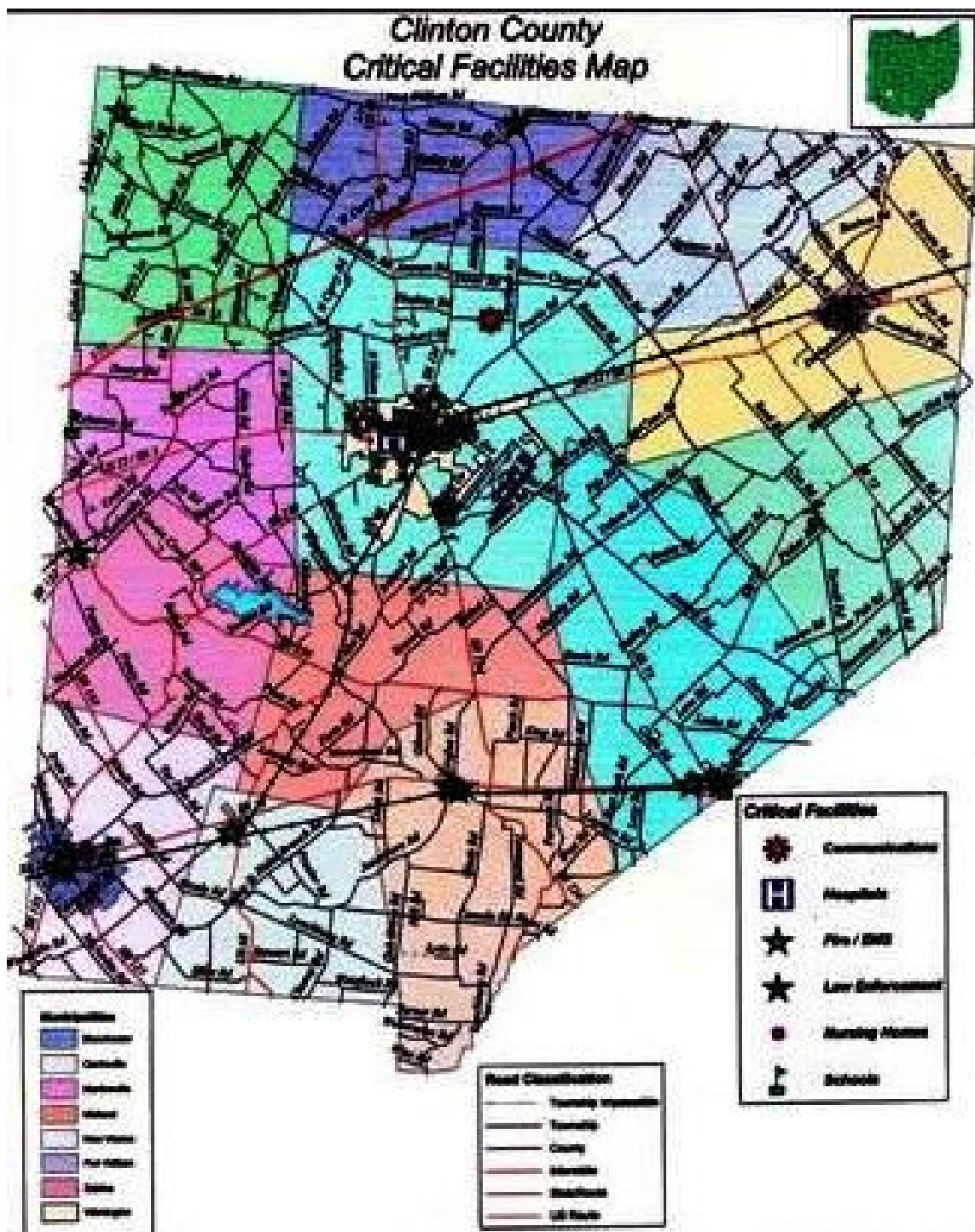


### Clinton County Road Transportation System & Airports

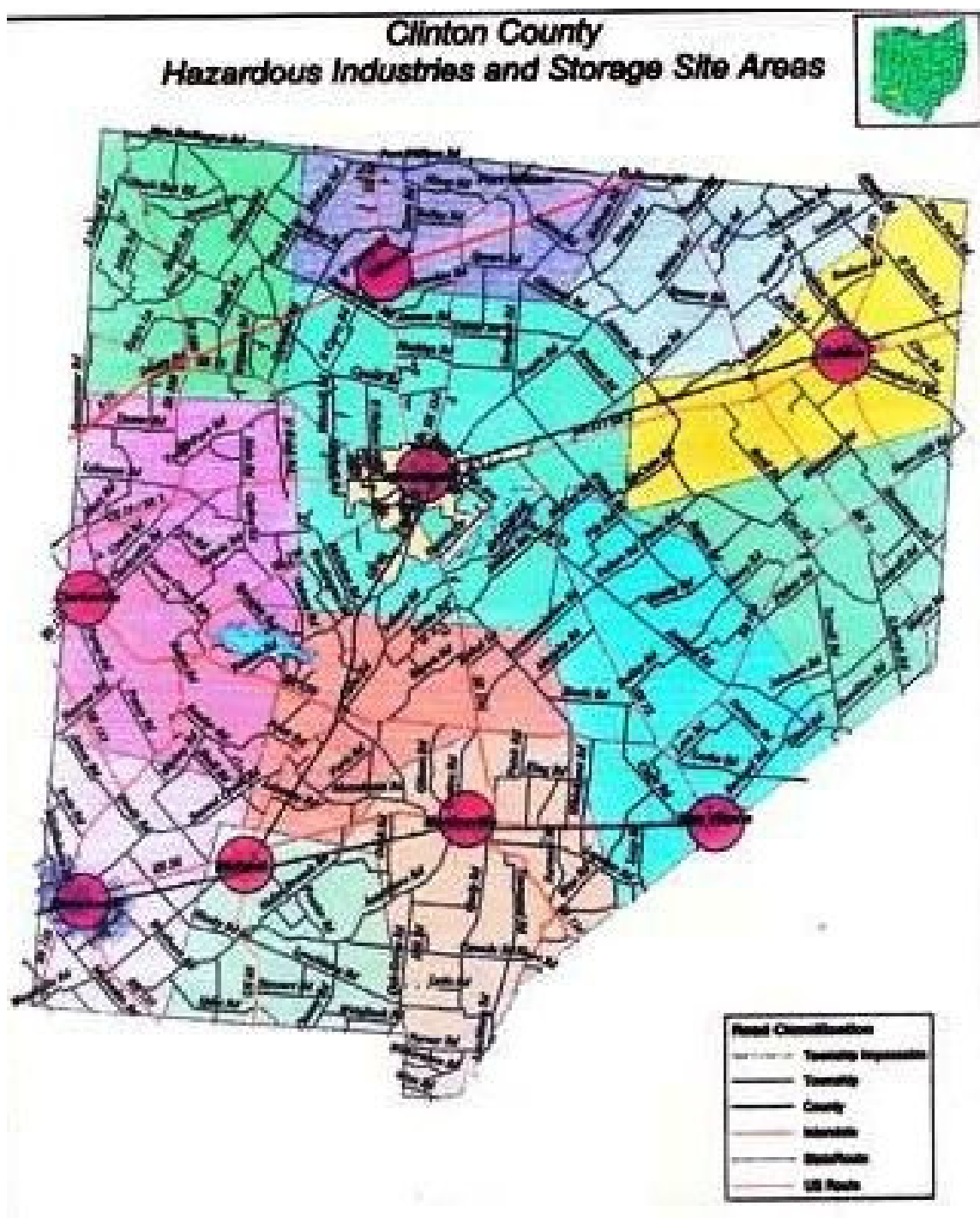
The map displays the road network of Clinton County, Ohio, with townships color-coded: Adams (green), Belmont (purple), Brown (yellow), Carroll (cyan), Chatham (magenta), Clark (pink), Clinton (orange), and Madison (light blue). Major roads are labeled with numbers, and airports are marked with blue circles. A legend in the bottom right corner defines the road classification symbols.

Road Classification	
	Township Impassable
	Township
	County
	Interstate
	State Route
	US Route

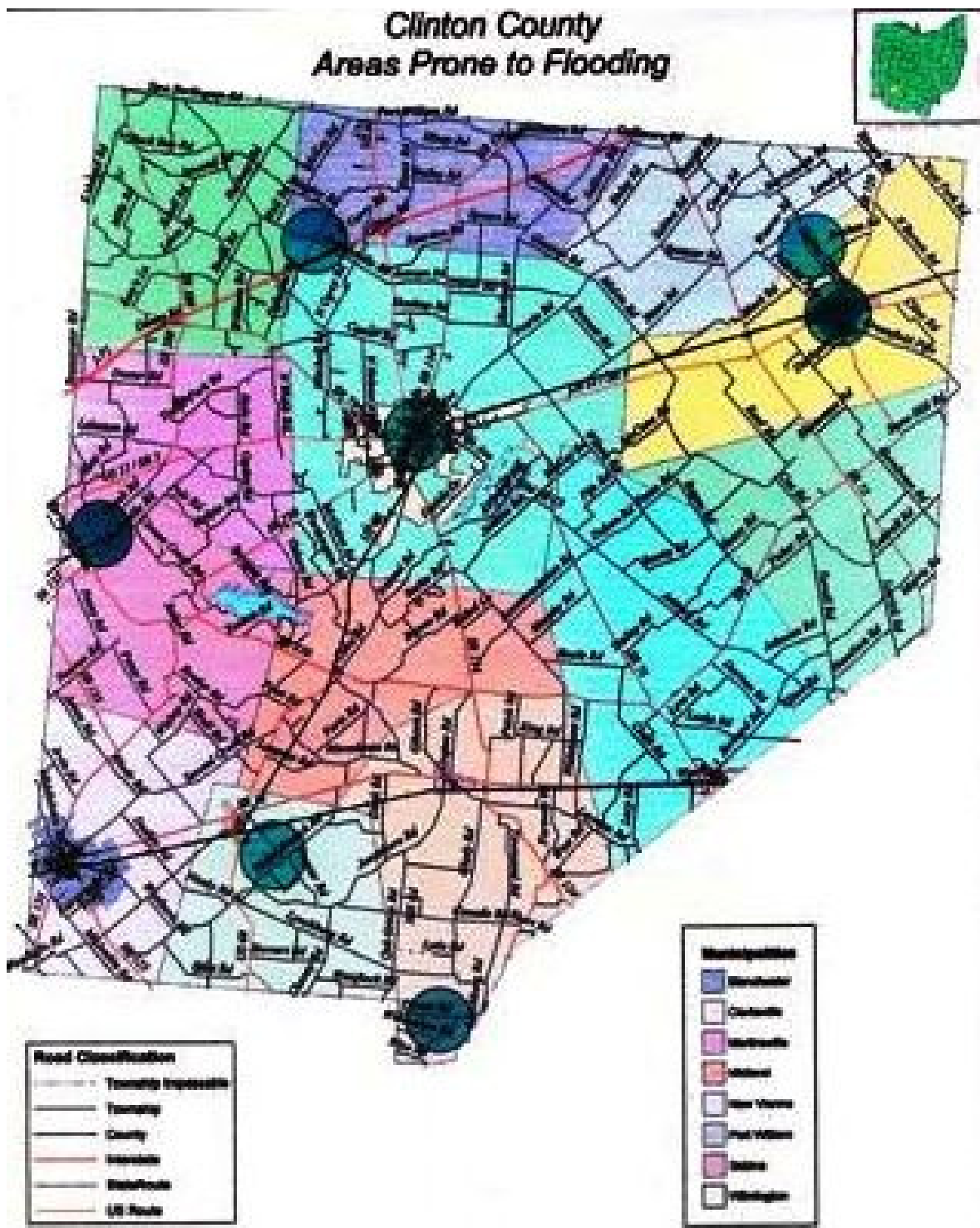
## Appendix II-2.0



## Appendix II-2.0



## Appendix II-2.0





## Appendix II-3.0

### Critical Facilities

#### Wilmington City Municipal Building

Name	Street Address	City / Village	Square Footage	Property Value
Wilmington City Municipal Building	69 North South Street	Wilmington	37,000	\$2,950,000

#### Communications

Name	Street Address	City / Village	Square Footage	Property Value
800 Communications Tower	Dwiggins Road	Wilmington	N/A	See County Government Buildings
Clinton County Communications	1645 Davids Drive	Wilmington	N/A	See County Government Buildings
Wilmington City Communications	69 North South Street	Wilmington	N/A	See Wilmington City Municipal Building

#### Fire / EMS

Name	Street Address	City / Village
Blanchester EMS	108 West Center Street	Blanchester
Blanchester Fire	701 West Broad Street	Blanchester
Chester Twp Fire and EMS	51 Mound Road	Wilmington
Clark Twp EMS	317 School Road	Martinsville
Clinton Highland Fire/EMS	676 West Street	New Vienna
Clinton South Fire/EMS	111 South Broadway Street	Midland
Clinton Warren	205 West Main Street	Clarksville
Martinsville Fire	317 School Street	Martinsville
Port William Fire / EMS	220 Second Street	Port William
SRWW Joint Fire/EMS	179 South Jackson Street	Sabina
Wilmington Fire/EMS	2415 Rombach Avenue	Wilmington

#### Law Enforcement

Name	Street Address	City / Village
State Highway Patrol	950 Rombach Avenue	Wilmington
Clinton County Sheriff	1645 Davids Drive	Wilmington
Blanchester Police Dept.	101 East Main Street	Blanchester
Martinsville Police Dept	604 Locust Street	Martinsville
New Vienna Police Dept.	97 West Main Street	New Vienna
Port William Police Dept.	220 Second Street	Port William
Sabina Police Dept.	99 North Howard Street	Sabina
Wilmington Police Dept.	69 North South Street	Wilmington

#### Hospitals

Name	Street Address	City / Village	Square Footage	Property Value
Clinton Memorial Hospital	610 West Main Street	Wilmington	455,897	\$66,105,065

#### National Weather Service

Name	Street Address	City / Village
National Weather Service	1901 SR 134 South	Wilmington

## Appendix II-2.0

### Nursing Homes

Name	Street Address	City / Village
Autumn Years	580 West Washington St.	Sabina
Blanchester Care Center	839 Cherry Street	Blanchester
Continental Manor	820 East Center Street	Blanchester
Kunkel and Associates	1665 West Main Street	Wilmington
Senior Health Care	201 East Locust Street	Wilmington
Wilmington Nursing & Rehab	75 Hale Street	Wilmington

### Schools

Name	Street Address	City / Village	Square Footage	Property Value
Blanchester High School	3482 St Rt. 28	Blanchester	98,318	\$8,946,938
Blanchester Middle School	3482 St Rt. 28	Blanchester	111,648	\$10,159,968
Putman Elementary School	327 East Baldwin Street	Blanchester	69,206	\$6,297,746
Clinton County Christian Schools	204 South Second Street	New Vienna		
Clinton Massie High School	2556 Lebanon Road	Clarksville	160,000	\$26,390,000
Clinton Massie Middle School	2556 Lebanon Road	Clarksville	130,000	Included Above
Clinton Massie Elementary School	2556 Lebanon Road	Clarksville	290,000	Included Above
East Clinton High School	174 Larrick Road	Lees Creek	93,004	\$8,463,364
East Clinton Middle School	174 Larrick Road	Lees Creek	36,673	\$3,337,243
Sabina Elementary	246 West Washington Street	Sabina	56,185	\$5,112,835
New Vienna Elementary	301 East Church Street	New Vienna	49,500	\$4,504,500
Laurel Oaks Career Development	300 Oak Drive	Wilmington		
Town & Country School	4425 St Rt. 730	Wilmington	57,233	\$5,208,234
Wilmington High School	300 Richardson Place	Wilmington	134,156	\$12,208,196
Wilmington Middle School	275 Thorne Avenue	Wilmington	130,156	\$11,855,662
East End Elementary	769 Rombach Avenue	Wilmington	33,289	\$3,029,299
Denver Place Elementary	291 Lorish Avenue	Wilmington	48,521	\$4,415,411
Roy Holmes Elementary	1350 West Truesdell St	Wilmington	56,982	\$5,185,362
Southern State Community College	1850 Davids Drive	Wilmington	36,000	\$4,140,000
Wilmington College	251 Ludovic Street	Wilmington		

## Appendix II-2.0

### County Government Buildings

Building	Address	City / Village	Value (Building & Equip)
Courthouse	46 South South Street	Wilmington	\$12,714,953
County Administrative Office	45 South Walnut Street	Wilmington	\$1,610,451
Sheriff's Office & Jail	1645 Davids Drive	Wilmington	\$5,892,079
County Jail Y&O	1645 Davids Drive	Wilmington	\$33,728
County Office Annex	111 South Nelson Avenue	Wilmington	\$2,080,589
County Office Annex Y&O	111 South Nelson Avenue	Wilmington	\$20,095
Public Defenders Office	39 East Locust Street	Wilmington	\$14,177
Prosecutor Office & Zoning	103 East Main Street	Wilmington	\$1,157,812
Prosecutor Office Y&O	103 East Main Street	Wilmington	\$1,616
Children Services	32 East Sugartree Street	Wilmington	\$472,541
Children Services Annex	103 East Sugartree Street	Wilmington	\$79,277
Human Services Bldg	180 East Sugartree Street	Wilmington	\$1,156,911
Human Services Bldg Y&O	180 East Sugartree Street	Wilmington	\$1,616
Human Services Bldg	1025 South South Street	Wilmington	\$2,120,000
Regional Planning Office	69 North South Street	Wilmington	\$24,178
Airport – Control Bldg	Curry Road	Wilmington	\$81,077
Airport Maintenance Hanger	Curry Road	Wilmington	\$166,752
Airport – Hangar	Curry Road	Wilmington	\$320,196
Airport – Hangar	Curry Road	Wilmington	\$167,562
Airport – Tower	Curry Road	Wilmington	\$7,321
MRDD Bldg	4425 SR 730	Wilmington	\$1,793,700
MRDD Bldg	4425 SR 730	Wilmington	\$683,184
MRDD Bldg	4425 SR 730	Wilmington	\$315,190
MRDD Bldg	4425 SR 730	Wilmington	\$765,286
MRDD Bldg	4425 SR 730	Wilmington	\$136,487
MRDD Bldg	4425 SR 730	Wilmington	\$29,914
MRDD Gazebo	4425 SR 730	Wilmington	\$7,190
MRDD Wastewater Treatment Plant	4425 SR 730	Wilmington	\$101,333
MRDD Y&O	4425 SR 730	Wilmington	\$28,310
Engineers Office	1325 Fife Avenue	Wilmington	\$2,129,745
Highway Department Garage	1325 Fife Avenue	Wilmington	\$1,460,115
Highway Department Cold Storage	1325 Fife Avenue	Wilmington	\$929,040
Highway Department Paint & Sign	1325 Fife Avenue	Wilmington	\$137,523
Highway Department Sign Shop	1325 Fife Avenue	Wilmington	\$30,565
Highway Department Storage Shed	1325 Fife Avenue	Wilmington	\$6,297
Highway Department Mower Bldg	1325 Fife Avenue	Wilmington	\$105,281
Highway Department Barn	1325 Fife Avenue	Wilmington	\$16,218

Highway Department Y&O	1325 Fife Avenue	Wilmington	\$167,568
Sheriff's Bldg	1326 Fife Avenue	Wilmington	\$94,249
Animal Shelter	1330 Fife Avenue	Wilmington	\$86,086
Animal Shelter – Office	1330 Fife Avenue	Wilmington	\$96,172
800 Communications Tower Site	Dwiggins Road	Wilmington	\$94,921
Fairgrounds	1004 West Main Street	Wilmington	\$47,036
Fairgrounds – Ticket Booth	1004 West Main Street	Wilmington	\$9,582
Fairgrounds – Office Bldg	1004 West Main Street	Wilmington	\$117,600
Fairgrounds – Office Bldg	1004 West Main Street	Wilmington	\$14,986
Fairgrounds – Pavilion	1004 West Main Street	Wilmington	\$40,989
Fairgrounds – Radio Booth	1004 West Main Street	Wilmington	\$7,129
Fairgrounds – Garage	1004 West Main Street	Wilmington	\$54,011
Fairgrounds – Pavilion	1004 West Main Street	Wilmington	\$34,179
Fairgrounds Jr. Fair Bldg	1004 West Main Street	Wilmington	\$208,998
Fairgrounds Jr. Fair Office Bldg	1004 West Main Street	Wilmington	\$30,468
Fairgrounds Storage Bldg	1004 West Main Street	Wilmington	\$154,430
Fairgrounds Cattle Barn	1004 West Main Street	Wilmington	\$277,111
Fairgrounds Sheep Barn	1004 West Main Street	Wilmington	\$163,868
Fairgrounds Antique Club	1004 West Main Street	Wilmington	\$44,733
Fairgrounds Show Arena	1004 West Main Street	Wilmington	\$371,579
Fairgrounds Restroom Bldg	1004 West Main Street	Wilmington	\$89,072
Fairgrounds Grandstand	1004 West Main Street	Wilmington	\$126,927
Fairgrounds Pavilion	1004 West Main Street	Wilmington	\$44,184
Fairgrounds Pavilion	1004 West Main Street	Wilmington	\$22,100
Fairgrounds Pavilion	1004 West Main Street	Wilmington	\$22,100
Fairgrounds Pavilion	1004 West Main Street	Wilmington	\$22,140
Fairgrounds Storage Bldg	1004 West Main Street	Wilmington	\$71,449
Fairgrounds Restroom Bldg	1004 West Main Street	Wilmington	\$62,966
Fairgrounds Garage	1004 West Main Street	Wilmington	\$43,139
Fairgrounds Office Bldg	1004 West Main Street	Wilmington	\$10,214
Fairgrounds Expo Center	1004 West Main Street	Wilmington	\$402,837
Fairgrounds Barn	1004 West Main Street	Wilmington	\$31,478
Fairgrounds Shed	1004 West Main Street	Wilmington	\$11,734
Fairgrounds Barn	1004 West Main Street	Wilmington	\$94,938
Fairgrounds Barn	1004 West Main Street	Wilmington	\$36,521
Fairgrounds Barn	1004 West Main Street	Wilmington	\$90,036
Fairgrounds Barn	1004 West Main Street	Wilmington	\$29,076
Coroners Office	2107 Rombach Avenue	Wilmington	\$9,463
Total Appraisal Value			\$40,134,380

Source: Industrial Appraisal Company

### Appendix II-3.0

Political Subdivision	Population	Housing Units	Business & Industry	Property Value
Adams	1,981	716	54	\$34,369,330
Chester	1,771	637	128	\$35,784,000
Clark	1,419	529	31	\$18,222,540
Green	1,398	494	50	\$21,443,450
Jefferson	1,036	402	43	\$12,391,500
Liberty	776	303	59	\$27,325,080
Marion	1,269	439	32	\$17,705,350
Richland	978	1,557	50	\$19,802,870
Union	3,068	1,227	170	\$114,804,439
Vernon	2,188	823	28	\$31,228,660
Washington	1,895	745	47	\$28,214,190
Wayne	737	269	18	\$14,830,520
Wilson	581	222	21	\$9,691,980
Blanchester	4,220	1,766	190	\$54,297,290
Clarksville	497	216	28	\$3,834,420
Martinsville	442	169	19	\$3,606,290
Midland	265	117	12	\$2,565,800
New Vienna	1,294	556	57	\$11,209,440
Port William	258	107	6	\$2,184,540
Sabina	2,780	1,104	106	\$27,407,630
Wilmington	11,921	5,284	574	\$216,046,890
Clinton County	40,543	16,577	1,723	\$706,956,200

Sources:

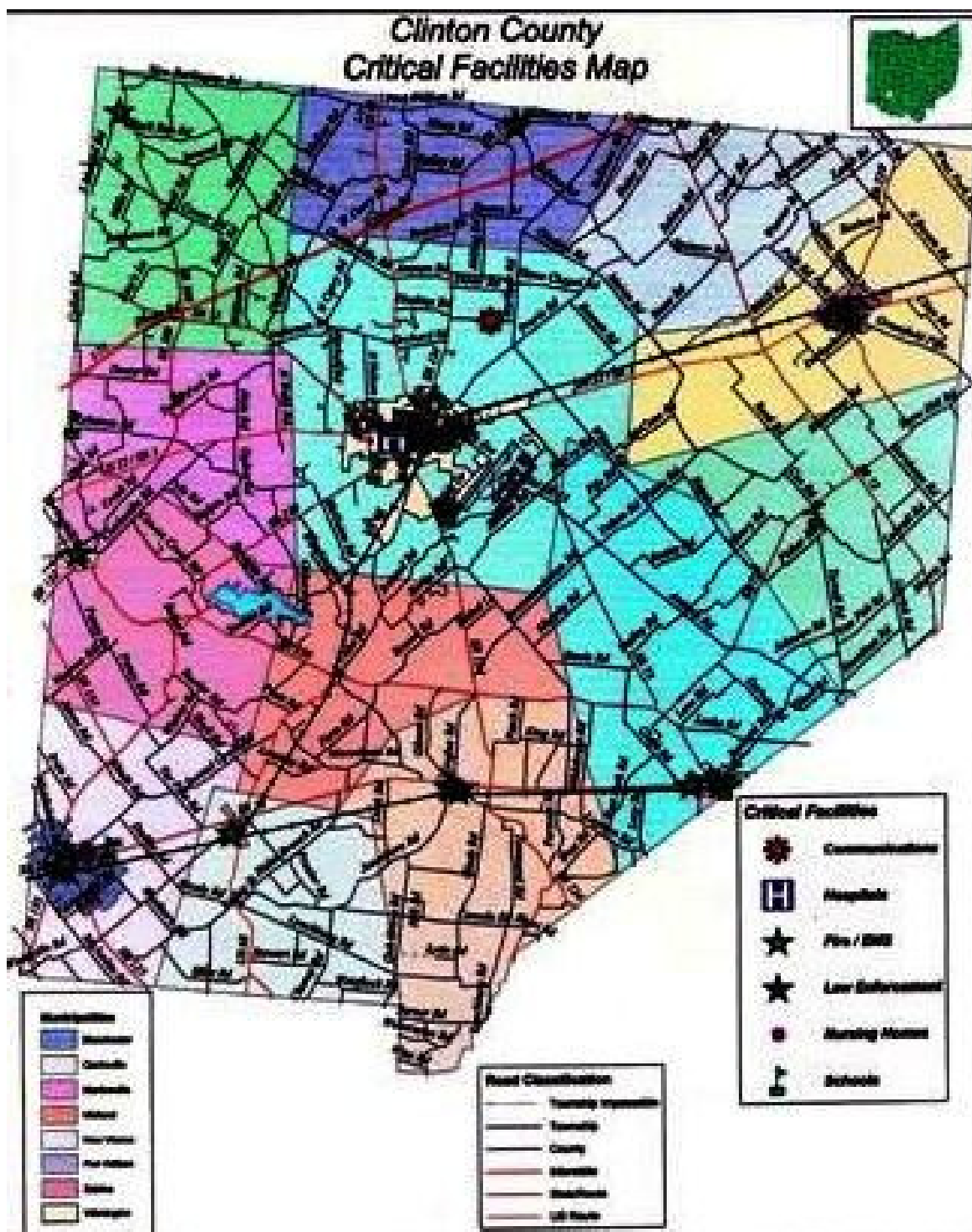
Population: 2000 Census Figures

Housing Units: 2000 Census Figures

Property Value: 2002 Duplicate Clinton County Real Property Values (Auditor)

Business & Industry: 2002 Personal Property Tax Duplicate (Auditor)

### Appendix II-3.1



## Appendix II-4.0

**13 TORNADO(s)** were reported in **Clinton County, Ohio** between **01/01/1950** and **10/31/2005**.

**Mag:** Magnitude

**Dth:** Deaths

**Inj:** Injuries

**PrD:** Property Damage

**CrD:** Crop Damage

Ohio								
Location or County	Date	Time	Type	Mag	Dth	Inj	PrD	CrD
1 <a href="#">CLINTON</a>	04/25/1961	1600	Tornado	F2	2	4	250K	0
2 <a href="#">CLINTON</a>	04/23/1968	1345	Tornado	F4	0	3	2.5M	0
3 <a href="#">CLINTON</a>	05/10/1969	1500	Tornado	F3	0	0	0K	0
4 <a href="#">CLINTON</a>	05/12/1970	1624	Tornado	F1	0	0	25K	0
5 <a href="#">CLINTON</a>	06/24/1976	1730	Tornado	F0	0	0	250K	0
6 <a href="#">CLINTON</a>	03/10/1986	1608	Tornado	F2	0	10	2.5M	0
7 <a href="#">CLINTON</a>	06/02/1990	2245	Tornado	F0	0	0	0K	0
8 <a href="#">CLINTON</a>	09/14/1990	1500	Tornado	F2	0	2	2.5M	0
9 <a href="#">CLINTON</a>	04/28/1994	1807	Tornado	F0	0	0	0	0
10 <a href="#">Sabina</a>	05/14/1997	05:05 PM	Tornado	F1	0	0	20K	0
11 <a href="#">Wilmington</a>	05/31/1998	06:25 PM	Tornado	F1	0	0	20K	0
12 <a href="#">Wilmington</a>	05/24/2001	06:37 PM	Tornado	F0	0	0	5K	0
13 <a href="#">Wilmington</a>	05/09/2002	05:09 PM	Tornado	F0	0	0	50K	0
TOTALS:					2	19	8.120M	0

The National Climatic Data Center Webpage



#### Appendix II-4.0

**2 DROUGHT** event(s) were reported in **Clinton County, Ohio** between **01/01/1950** and **10/31/2005**.

**Mag:** Magnitude

**Dth:** Deaths

**Inj:** Injuries

**PrD:** Property Damage

**CrD:** Crop Damage

Ohio								
Location or County	Date	Time	Type	Mag	Dth	Inj	PrD	CrD
1 <a href="#">Clinton</a>	07/01/1999	12:00 AM	Drought	N/A	0	0	0	0
2 <a href="#">Clinton</a>	08/01/1999	12:00 AM	Drought	N/A	0	0	0	0
TOTALS:					0	0	0	0

The National Climatic Data Center Webpage

## Appendix II-4.0

**28 SNOW & ICE** event(s) were reported in **Clinton County, Ohio** between **01/01/1950** and **10/31/2005**.

**Mag:** Magnitude

**Dth:** Deaths

**Inj:** Injuries

**PrD:** Property Damage

**CrD:** Crop Damage

Ohio								
Location or County	Date	Time	Type	Mag	Dth	Inj	PrD	CrD
1 <a href="#">Southwest Ohio Cincin</a>	12/25/1993	9999	Heavy Snow	N/A	0	0	5K	0
2 <a href="#">Southwest Through Nor</a>	03/09/1994	0400	Heavy Snow	N/A	0	0	500K	0
3 <a href="#">Clinton</a>	01/21/1995	0100	Snow	N/A	2	6	500K	0
4 <a href="#">Clinton</a>	01/28/1995	0600	Heavy Snow/ice	N/A	0	0	600K	0
5 <a href="#">Clinton</a>	02/03/1995	1200	Heavy Snow	N/A	0	0	60K	0
6 <a href="#">Clinton</a>	03/01/1995	1800	Heavy Snow	N/A	0	0	50K	0
7 <a href="#">Southern And Central</a>	12/13/1995	0400	Freezing Rain	N/A	0	2	25K	0
8 <a href="#">Clinton</a>	01/04/1996	02:00 PM	Heavy Snow	N/A	0	0	20K	0
9 <a href="#">Clinton</a>	01/06/1996	03:00 PM	Winter Storm	N/A	2	0	14.3M	0
10 <a href="#">Clinton</a>	01/11/1996	03:00 PM	Heavy Snow	N/A	0	0	26K	0
11 <a href="#">Clinton</a>	03/06/1996	01:00 AM	Ice Storm	N/A	0	0	0	0
12 <a href="#">Clinton</a>	03/19/1996	04:00 PM	Winter Storm	N/A	1	0	0	0
13 <a href="#">Clinton</a>	01/24/1997	07:00 AM	Ice Storm	N/A	0	0	0	0
14 <a href="#">Clinton</a>	02/03/1998	11:00 PM	Winter Storm	N/A	0	0	0	0
15 <a href="#">Clinton</a>	01/01/1999	10:00 PM	Winter Storm	N/A	0	0	0	0
16 <a href="#">Clinton</a>	01/07/1999	10:00 PM	Winter Storm	N/A	0	0	0	0

17 <a href="#">Clinton</a>	01/13/1999	03:00 AM	Winter Storm	N/A	0	0	0	0
18 <a href="#">Clinton</a>	03/09/1999	12:00 AM	Heavy Snow	N/A	0	0	0	0
19 <a href="#">Clinton</a>	01/19/2000	08:00 PM	Heavy Snow	N/A	0	0	0	0
20 <a href="#">Clinton</a>	12/13/2000	06:00 PM	Ice Storm	N/A	0	0	0	0
21 <a href="#">Clinton</a>	12/05/2002	03:15 AM	Winter Storm	N/A	0	0	0	0
22 <a href="#">Clinton</a>	02/15/2003	01:25 AM	Winter Storm	N/A	0	0	0	0
23 <a href="#">Clinton</a>	02/16/2003	03:00 AM	Winter Storm	N/A	0	0	1.5M	0
24 <a href="#">Clinton</a>	01/25/2004	05:00 PM	Winter Storm	N/A	0	0	0	0
25 <a href="#">Clinton</a>	03/16/2004	03:30 AM	Winter Storm	N/A	0	0	0	0
26 <a href="#">Clinton</a>	12/22/2004	08:20 AM	Winter Storm	N/A	0	0	451K	0
27 <a href="#">Clinton</a>	01/20/2005	06:20 PM	Winter Storm	N/A	0	0	0	0
28 <a href="#">Clinton</a>	01/22/2005	06:50 AM	Winter Storm	N/A	0	0	0	0
TOTALS:					5	8	17.987M	0

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## Appendix II-4.0

**26 FLOOD** event(s) were reported in **Clinton County, Ohio** between **01/01/1950** and **10/31/2005**.

**Mag:** Magnitude

**Dth:** Deaths

**Inj:** Injuries

**PrD:** Property Damage

**CrD:** Crop Damage

Ohio								
Location or County	Date	Time	Type	Mag	Dth	Inj	PrD	CrD
1 <a href="#">Countywide</a>	04/10/1994	0740	Flash Flood	N/A	0	0	50K	0
2 <a href="#">Countywide</a>	04/29/1996	06:45 AM	Flash Flood	N/A	0	0	2K	0
3 <a href="#">Westboro</a>	08/17/1997	08:30 PM	Flood	N/A	0	0	5K	0
4 <a href="#">Countywide</a>	04/16/1998	02:23 AM	Flood	N/A	0	0	0	0
5 <a href="#">Countywide</a>	01/03/2000	07:30 PM	Flood	N/A	0	0	10K	0
6 <a href="#">Countywide</a>	02/13/2000	07:55 PM	Flood	N/A	0	0	5K	0
7 <a href="#">Wilmington</a>	07/03/2000	10:22 PM	Flood	N/A	0	0	5K	0
8 <a href="#">Countywide</a>	05/18/2001	01:00 PM	Flood	N/A	0	0	10K	0
9 <a href="#">Wilmington</a>	06/06/2001	04:30 PM	Flood	N/A	0	0	3K	0
10 <a href="#">New Vienna</a>	06/06/2001	07:30 PM	Flood	N/A	0	0	3K	0
11 <a href="#">Countywide</a>	05/07/2002	06:10 AM	Flood	N/A	0	0	25K	0
12 <a href="#">Countywide</a>	05/29/2002	04:00 AM	Flood	N/A	0	0	0	0
13 <a href="#">Countywide</a>	06/05/2002	02:55 PM	Flood	N/A	0	0	0	0
14 <a href="#">Countywide</a>	06/06/2002	06:50 AM	Flood	N/A	0	0	0	0
15 <a href="#">Countywide</a>	07/27/2002	06:15 AM	Flood	N/A	0	0	23K	0

16 <a href="#">Countywide</a>	07/27/2002	07:20 AM	Flash Flood	N/A	0	0	3K	0
17 <a href="#">Countywide</a>	08/18/2002	01:45 PM	Flood	N/A	0	0	0	0
18 <a href="#">Countywide</a>	11/10/2002	06:00 PM	Flood	N/A	0	0	0	0
19 <a href="#">Countywide</a>	05/10/2003	06:50 AM	Flood	N/A	0	0	0	0
20 <a href="#">Countywide</a>	06/17/2003	09:28 AM	Flood	N/A	0	0	30K	0
21 <a href="#">Countywide</a>	09/02/2003	02:30 PM	Flood	N/A	0	0	10K	0
22 <a href="#">Countywide</a>	05/27/2004	05:15 PM	Flood	N/A	0	0	0	0
23 <a href="#">Countywide</a>	01/05/2005	07:15 AM	Flood	N/A	0	0	585K	0
24 <a href="#">Countywide</a>	01/11/2005	06:00 PM	Flood	N/A	0	0	295K	0
25 <a href="#">Countywide</a>	03/28/2005	05:15 AM	Flood	N/A	0	0	0	0
26 <a href="#">Countywide</a>	06/30/2005	12:30 PM	Flood	N/A	0	0	0	0
TOTALS:					0	0	1.064M	0

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## Appendix II-4.0

**43 HAIL** event(s) were reported in **Clinton County, Ohio** between **01/01/1950** and **10/31/2005**.

**Mag:** Magnitude

**Dth:** Deaths

**Inj:** Injuries

**PrD:** Property Damage

**CrD:** Crop Damage

Ohio								
Location or County	Date	Time	Type	Mag	Dth	Inj	PrD	CrD
1 <a href="#">CLINTON</a>	05/18/1957	1300	Hail	1.75 in.	0	0	0	0
2 <a href="#">CLINTON</a>	07/16/1977	1305	Hail	1.75 in.	0	0	0	0
3 <a href="#">CLINTON</a>	03/16/1982	1400	Hail	1.00 in.	0	0	0	0
4 <a href="#">CLINTON</a>	05/29/1982	1330	Hail	1.00 in.	0	0	0	0
5 <a href="#">CLINTON</a>	05/05/1986	2301	Hail	0.75 in.	0	0	0	0
6 <a href="#">Clarksville</a>	04/20/1993	1645	Hail	1.25 in.	0	0	5K	0
7 <a href="#">Wilmington And</a>	04/12/1994	2210	Hail	0.88 in.	0	0	5K	0
8 <a href="#">Blanchester</a>	07/29/1994	1245	Hail	0.75 in.	0	0	0	0
9 <a href="#">Wilmington</a>	04/08/1995	1600	Hail	1.00 in.	0	0	0	0
10 <a href="#">Wilmington</a>	04/09/1995	2326	Hail	0.75 in.	0	0	0	0
11 <a href="#">Kingman</a>	04/10/1995	0015	Hail	0.75 in.	0	0	0	0
12 <a href="#">Wilmington</a>	04/10/1995	0155	Hail	0.88 in.	0	0	0	0
13 <a href="#">Wilmington</a>	06/09/1995	1924	Hail	0.75 in.	0	0	0	0
14 <a href="#">Lumberton</a>	06/22/1995	1815	Hail	0.75 in.	0	0	0	0
15 <a href="#">Blanchester</a>	05/01/1996	02:48 PM	Hail	1.00 in.	0	0	0	0
16 <a href="#">Port William</a>	05/01/1996	03:00 PM	Hail	0.75 in.	0	0	0	0
17 <a href="#">Sabina</a>	05/24/1996	06:25 AM	Hail	1.00 in.	0	0	0	0
18 <a href="#">Sabina</a>	06/03/1996	05:25 PM	Hail	0.75 in.	0	0	0	0
19 <a href="#">Sabina</a>	05/14/1997	04:50 PM	Hail	1.25 in.	0	0	0	0
20 <a href="#">New Antioch</a>	07/14/1997	02:40 PM	Hail	0.75 in.	0	0	0	0

21 <a href="#">Kingman</a>	05/13/1998	05:02 PM	Hail	1.00 in.	0	0	0	0
22 <a href="#">Wilmington</a>	05/13/1998	05:12 PM	Hail	2.75 in.	0	0	100K	0
23 <a href="#">New Vienna</a>	05/13/1998	05:50 PM	Hail	2.75 in.	0	0	0	0
24 <a href="#">Wilmington</a>	05/13/1998	06:55 PM	Hail	1.00 in.	0	0	0	0
25 <a href="#">Martinsville</a>	06/16/1998	11:25 AM	Hail	0.75 in.	0	0	0	0
26 <a href="#">Midland</a>	04/10/1999	11:05 PM	Hail	1.75 in.	0	0	0	0
27 <a href="#">Clarksville</a>	05/10/2000	12:10 AM	Hail	1.25 in.	0	0	0	0
28 <a href="#">Wilmington</a>	04/09/2001	06:15 PM	Hail	1.75 in.	0	0	0	0
29 <a href="#">Sabina</a>	04/09/2001	07:32 PM	Hail	1.75 in.	0	0	0	0
30 <a href="#">Lumberton</a>	05/25/2001	01:18 PM	Hail	0.75 in.	0	0	0	0
31 <a href="#">Martinsville</a>	02/20/2002	02:05 PM	Hail	1.00 in.	0	0	5K	0
32 <a href="#">Wilmington</a>	02/20/2002	02:40 PM	Hail	0.75 in.	0	0	3K	0
33 <a href="#">Blanchester</a>	04/19/2002	04:20 PM	Hail	0.88 in.	0	0	10K	0
34 <a href="#">Blanchester</a>	04/19/2002	04:23 PM	Hail	1.00 in.	0	0	10K	0
35 <a href="#">Martinsville</a>	04/19/2002	04:39 PM	Hail	1.00 in.	0	0	7K	0
36 <a href="#">Wilmington</a>	04/19/2002	05:27 PM	Hail	0.75 in.	0	0	10K	0
37 <a href="#">Wilmington</a>	09/18/2002	06:15 PM	Hail	0.75 in.	0	0	0	0
38 <a href="#">Midland</a>	03/20/2003	03:00 PM	Hail	0.88 in.	0	0	0	0



39 <a href="#">Cuba</a>	04/05/2003	12:36 AM	Hail	1.00 in.	0	0	0	0
40 <a href="#">Wilmington</a>	05/15/2003	12:50 AM	Hail	0.75 in.	0	0	0	0
41 <a href="#">New Vienna</a>	05/17/2004	07:26 PM	Hail	0.75 in.	0	0	0	0
42 <a href="#">Wilmington</a>	05/21/2004	04:25 PM	Hail	0.75 in.	0	0	0	0
43 <a href="#">Wilmington</a>	05/13/2005	05:45 PM	Hail	0.75 in.	0	0	4K	0
TOTALS:					0	0	159K	0

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## Appendix II-4.0

**2 LIGHTNING** event(s) were reported in **Clinton County, Ohio** between **01/01/1950** and **10/31/2005**.

**Mag:** Magnitude

**Dth:** Deaths

**Inj:** Injuries

**PrD:** Property Damage

**CrD:** Crop Damage

Ohio								
Location or County	Date	Time	Type	Mag	Dth	Inj	PrD	CrD
1 <a href="#">Wilmington</a>	05/24/1996	09:45 AM	Lightning	N/A	0	0	50K	0
2 <a href="#">Wilmington</a>	06/11/1996	08:30 PM	Lightning	N/A	0	0	100K	0
TOTALS:					0	0	150K	0

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### Appendix II-4.0

**96 THUNDERSTORM & HIGH WIND** event(s) were reported in **Clinton County, Ohio** between **01/01/1950** and **10/31/2005**.

**Mag:** Magnitude

**Dth:** Deaths

**Inj:** Injuries

**PrD:** Property Damage

**CrD:** Crop Damage

Ohio								
Location or County	Date	Time	Type	Mag	Dth	Inj	PrD	CrD
1 <a href="#">CLINTON</a>	02/25/1956	0930	Tstm Wind	100 kts.	0	0	0	0
2 <a href="#">CLINTON</a>	05/18/1957	1300	Tstm Wind	62 kts.	0	0	0	0
3 <a href="#">CLINTON</a>	04/25/1961	1538	Tstm Wind	100 kts.	0	0	0	0
4 <a href="#">CLINTON</a>	05/26/1962	1230	Tstm Wind	50 kts.	0	0	0	0
5 <a href="#">CLINTON</a>	07/25/1962	1800	Tstm Wind	50 kts.	0	0	0	0
6 <a href="#">CLINTON</a>	10/24/1967	1932	Tstm Wind	61 kts.	0	0	0	0
7 <a href="#">CLINTON</a>	10/04/1973	1545	Tstm Wind	0 kts.	0	0	0	0
8 <a href="#">CLINTON</a>	04/01/1974	1930	Tstm Wind	0 kts.	0	0	0	0
9 <a href="#">CLINTON</a>	05/17/1974	1607	Tstm Wind	0 kts.	0	0	0	0
10 <a href="#">CLINTON</a>	06/20/1974	2320	Tstm Wind	0 kts.	0	0	0	0
11 <a href="#">CLINTON</a>	06/22/1974	1800	Tstm Wind	0 kts.	0	0	0	0
12 <a href="#">CLINTON</a>	01/11/1975	0115	Tstm Wind	0 kts.	0	0	0	0
13 <a href="#">CLINTON</a>	09/05/1975	1630	Tstm Wind	60 kts.	0	0	0	0
14 <a href="#">CLINTON</a>	01/13/1976	1600	Tstm Wind	0 kts.	0	0	0	0
15 <a href="#">CLINTON</a>	10/01/1977	0200	Tstm Wind	0 kts.	0	0	0	0
16 <a href="#">CLINTON</a>	06/29/1979	2030	Tstm Wind	0 kts.	0	0	0	0
17 <a href="#">CLINTON</a>	06/02/1980	1525	Tstm Wind	52 kts.	0	0	0	0
18 <a href="#">CLINTON</a>	07/09/1980	1255	Tstm Wind	0 kts.	0	0	0	0

19	<a href="#">CLINTON</a>	06/16/1981	1330	Tstm Wind	0 kts.	0	0	0	0
20	<a href="#">CLINTON</a>	05/29/1982	1330	Tstm Wind	0 kts.	0	0	0	0
21	<a href="#">CLINTON</a>	07/18/1982	1400	Tstm Wind	0 kts.	0	0	0	0
22	<a href="#">CLINTON</a>	06/27/1983	1300	Tstm Wind	0 kts.	0	0	0	0
23	<a href="#">CLINTON</a>	07/23/1983	1600	Tstm Wind	0 kts.	0	0	0	0
24	<a href="#">CLINTON</a>	05/25/1987	1600	Tstm Wind	0 kts.	0	0	0	0
25	<a href="#">CLINTON</a>	04/17/1989	1700	Tstm Wind	0 kts.	0	0	0	0
26	<a href="#">CLINTON</a>	04/25/1989	2030	Tstm Wind	0 kts.	0	0	0	0
27	<a href="#">CLINTON</a>	08/29/1989	1805	Tstm Wind	0 kts.	0	0	0	0
28	<a href="#">CLINTON</a>	05/04/1990	1945	Tstm Wind	0 kts.	0	0	0	0
29	<a href="#">CLINTON</a>	06/30/1990	1630	Tstm Wind	0 kts.	0	0	0	0
30	<a href="#">CLINTON</a>	07/09/1990	1800	Tstm Wind	0 kts.	0	0	0	0
31	<a href="#">CLINTON</a>	04/09/1991	1445	Tstm Wind	0 kts.	0	0	0	0
32	<a href="#">CLINTON</a>	04/23/1991	2015	Tstm Wind	0 kts.	0	0	0	0
33	<a href="#">CLINTON</a>	05/17/1991	2020	Tstm Wind	0 kts.	0	0	0	0
34	<a href="#">CLINTON</a>	07/02/1991	1745	Tstm Wind	0 kts.	0	0	0	0
35	<a href="#">CLINTON</a>	08/03/1991	2039	Tstm Wind	0 kts.	0	0	0	0
36	<a href="#">CLINTON</a>	08/08/1991	1600	Tstm Wind	0 kts.	0	0	0	0
37	<a href="#">CLINTON</a>	07/10/1992	1550	Tstm Wind	0 kts.	0	0	0	0
38	<a href="#">CLINTON</a>	07/14/1992	1940	Tstm Wind	0 kts.	0	0	0	0
39	<a href="#">Southern Half</a>	03/18/1994	1155	High Winds	0 kts.	0	2	500K	0
40	<a href="#">Countywide</a>	04/15/1994	1145	Thunderstorm Winds	N/A	0	0	500K	0
41	<a href="#">Sabina</a>	04/28/1994	1830	Thunderstorm Winds	N/A	0	0	50K	0
42	<a href="#">Clarksville</a>	06/19/1994	1540	Thunderstorm Winds	N/A	0	1	50K	0
43	<a href="#">Chester Township</a>	06/21/1994	1714	Thunderstorm Winds	N/A	0	0	50K	0
44	<a href="#">Wilmington</a>	07/06/1994	1407	Thunderstorm Winds	N/A	0	0	5K	0
45	<a href="#">Wilmington</a>	05/29/1995	0000	Thunderstorm	N/A	0	0	3K	0

			Winds					
46 <a href="#">Southwest</a>	10/20/1995	0900	High Winds	0 kts.	0	0	3K	0
47 <a href="#">Wilmington</a>	04/29/1996	04:00 PM	Tstm Wind	50 kts.	0	0	0	0
48 <a href="#">Wilmington</a>	07/07/1996	07:15 PM	Tstm Wind	50 kts.	0	0	5K	0
49 <a href="#">Oakland</a>	08/15/1996	02:55 PM	Tstm Wind	50 kts.	0	0	5K	0
50 <a href="#">Wilmington</a>	11/07/1996	05:00 PM	Tstm Wind	60 kts.	0	0	0	0
51 <a href="#">Countywide</a>	07/02/1997	06:02 PM	Tstm Wind	50 kts.	0	0	10K	0
52 <a href="#">New Vienna</a>	07/02/1997	07:20 PM	Tstm Wind	70 kts.	0	0	100K	0
53 <a href="#">Burtonville</a>	07/14/1997	03:05 PM	Tstm Wind	50 kts.	0	0	3K	0
54 <a href="#">Countywide</a>	07/27/1997	07:30 PM	Tstm Wind	50 kts.	0	0	10K	0
55 <a href="#">Clarksville</a>	07/28/1997	06:55 AM	Tstm Wind	50 kts.	0	0	25K	0
56 <a href="#">Martinsville</a>	07/28/1997	07:25 AM	Tstm Wind	52 kts.	0	0	0	0
57 <a href="#">Sabina</a>	06/12/1998	09:30 PM	Tstm Wind	50 kts.	0	0	3K	0
58 <a href="#">Blanchester</a>	06/19/1998	02:05 AM	Tstm Wind	50 kts.	0	0	10K	0
59 <a href="#">Clarksville</a>	07/19/1998	10:15 PM	Tstm Wind	70 kts.	0	0	20K	0
60 <a href="#">Wilmington</a>	11/10/1998	02:50 PM	Tstm Wind	50 kts.	0	0	10K	0
61 <a href="#">Clarksville</a>	04/09/1999	04:50 AM	Tstm Wind	100 kts.	0	0	1.0M	0
62 <a href="#">Wilmington</a>	05/06/1999	01:20 PM	Tstm Wind	50 kts.	0	0	4K	0
63 <a href="#">Countywide</a>	06/12/1999	01:30 PM	Tstm Wind	50 kts.	0	0	3K	0

64 <a href="#">Midland</a>	07/09/1999	08:15 PM	Tstm Wind	50 kts.	0	0	3K	0
65 <a href="#">Wilmington</a>	07/26/1999	05:17 PM	Tstm Wind	50 kts.	0	0	5K	0
66 <a href="#">Wilmington Indus Arpt</a>	08/24/1999	03:03 PM	Tstm Wind	52 kts.	0	0	0	0
67 <a href="#">Wilmington</a>	04/20/2000	06:15 PM	Tstm Wind	50 kts.	0	0	5K	0
68 <a href="#">Wilmington</a>	06/14/2000	04:46 PM	Tstm Wind	50 kts.	0	0	0K	0
69 <a href="#">Wilmington</a>	06/14/2000	04:57 PM	Tstm Wind	63 kts.	0	0	2K	0
70 <a href="#">Blanchester</a>	09/20/2000	07:05 PM	Tstm Wind	50 kts.	0	0	5K	0
71 <a href="#">Countywide</a>	11/09/2000	05:45 PM	Tstm Wind	50 kts.	0	0	10K	0
72 <a href="#">Countywide</a>	12/11/2000	09:00 PM	High Wind	58 kts.	1	0	100K	0
73 <a href="#">Wilmington Indus Arpt</a>	03/13/2001	04:10 PM	Tstm Wind	56 kts.	0	0	30K	0
74 <a href="#">Bloomington</a>	04/09/2001	10:45 PM	Tstm Wind	50 kts.	0	0	5K	0
75 <a href="#">Wilmington</a>	05/18/2001	12:05 PM	Tstm Wind	50 kts.	0	0	15K	0
76 <a href="#">New Vienna</a>	06/06/2001	04:20 PM	Tstm Wind	55 kts.	0	0	10K	0
77 <a href="#">Wilmington</a>	06/12/2001	06:30 PM	Tstm Wind	50 kts.	0	0	6K	0
78 <a href="#">Wilmington</a>	06/21/2001	04:35 PM	Tstm Wind	51 kts.	0	0	3K	0
79 <a href="#">Wilmington</a>	10/24/2001	07:59 PM	Tstm Wind	60 kts.	0	0	40K	0
80 <a href="#">Countywide</a>	03/09/2002	12:43 PM	High Wind	73 kts.	1	12	971K	0
81 <a href="#">New Vienna</a>	04/19/2002	04:40 PM	Tstm Wind	55 kts.	0	0	100K	0

82 <a href="#">Wilmington</a>	05/25/2002	07:45 PM	Tstm Wind	50 kts.	0	0	15K	0
83 <a href="#">Wilmington</a>	06/26/2002	01:15 PM	Tstm Wind	50 kts.	0	0	25K	0
84 <a href="#">Countywide</a>	07/27/2002	03:45 AM	Tstm Wind	50 kts.	0	0	2K	0
85 <a href="#">Wilmington</a>	07/29/2002	06:00 PM	Tstm Wind	60 kts.	0	0	20K	0
86 <a href="#">Port William</a>	09/20/2002	04:00 PM	Tstm Wind	60 kts.	0	0	25K	0
87 <a href="#">Wilmington</a>	04/05/2003	12:00 AM	Tstm Wind	50 kts.	0	0	3K	0
88 <a href="#">Blanchester</a>	05/11/2003	03:35 AM	Tstm Wind	50 kts.	0	0	3K	0
89 <a href="#">(iln)Wilmington Arpk</a>	07/04/2003	08:15 PM	Tstm Wind	54 kts.	0	0	3K	0
90 <a href="#">Wilmington</a>	08/27/2003	11:30 AM	Tstm Wind	50 kts.	0	0	2K	0
91 <a href="#">Wilmington</a>	05/17/2004	02:30 PM	Tstm Wind	50 kts.	0	0	5K	0
92 <a href="#">Sabina</a>	05/27/2004	05:30 PM	Tstm Wind	60 kts.	0	0	5K	0
93 <a href="#">Martinsville</a>	05/30/2004	05:45 PM	Tstm Wind	50 kts.	0	0	2K	0
94 <a href="#">Midland</a>	06/27/2005	06:24 PM	Tstm Wind	50 kts.	0	0	10K	0
95 <a href="#">Wilmington</a>	06/30/2005	01:23 PM	Tstm Wind	50 kts.	0	0	0	0
96 <a href="#">Wilmington</a>	06/30/2005	08:50 PM	Tstm Wind	50 kts.	0	0	3K	0
TOTALS:					2	15	3.802M	0

The National Climatic Data Center

## Appendix II-5.0

