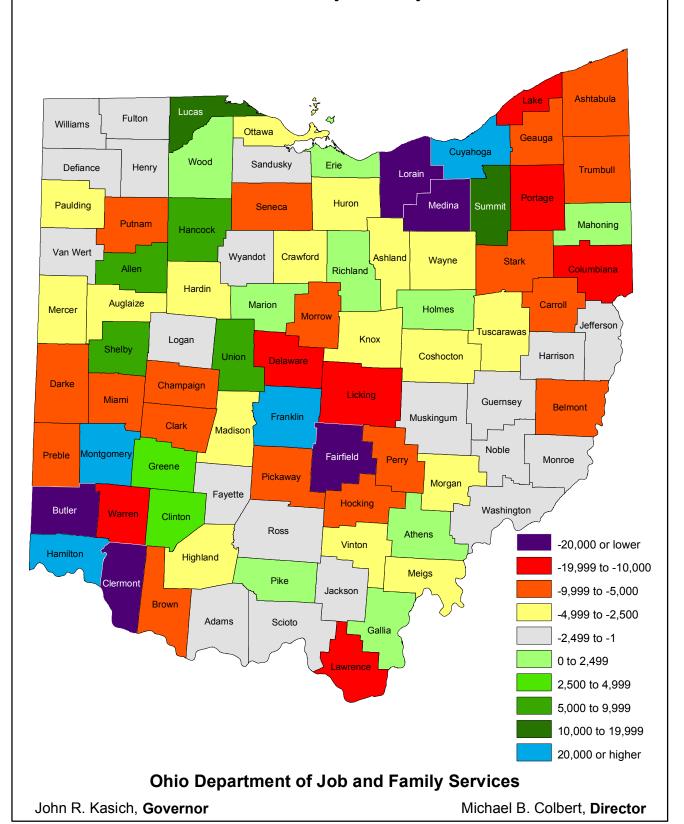
Net Flow of Commuters by Ohio County

American Community Survey 2006 - 2010



Workforce Commuting Patterns by Ohio County
Based on the American Community Survey 2006 - 2010

	Workers				Residents		Summary		
County	Number of Workers	Commuter Inflow	Percentage	Employed Residents	Commuter Outflow	Percentage	Net Flow	Percent of Commuters	Percent of Workers
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
Adams	8,020	1,547	19.3	10,322	3,849	37.3	(2,302)	-42.7	28.7
Allen	54,009	15,397	28.5	46,651	8,039	17.2	7,358	31.4	13.6
Ashland	20,358	5,418	26.6	23,470	8,530	36.3	(3,112)	-22.3	15.3
Ashtabula	34,458	4,877	14.2	42,523	12,942	30.4	(8,065)	-45.3	23.4
Athens	25,986	4,808	18.5	25,478	4,300	16.9	508	5.6	2.0
Auglaize	19,280	6,556	34.0	22,271	9,547	42.9	(2,991)	-18.6	15.5
Belmont	23,434	6,267	26.7	29,374	12,207	41.6	(5,940)	-32.2	25.3
Brown	9,235	2,553	27.6	18,405	11,723	63.7	(9,170)	-64.2	99.3
Butler	147,004	50,027	34.0	168,999	72,022	42.6	(21,995)	-18.0	15.0
Carroll	7,088	2,158	30.4	12,852	7,922	61.6	(5,764)	-57.2	81.3
Champaign	12,852	4,172	32.5	18,193	9,513	52.3	(5,341)	-39.0	41.6
Clark	50,810	11,199	22.0	60,448	20,837	34.5	(9,638)	-30.1	19.0
Clermont	59,360	21,593	36.4	92,836	55,069	59.3	(33,476)	-43.7	56.4
Clinton	23,393	10,785	46.1	19,141	6,533	34.1	4,252	24.6	18.2
Columbiana	32,645	7,450	22.8	45,826	20,631	45.0	(13,181)	-46.9	40.4
Coshocton	12,844	1,970	15.3	15,365	4,491	29.2	(2,521)	-39.0	19.6
Crawford	15,934	4,037	25.3	19,119	7,222	37.8	(3,185)	-28.3	20.0
Cuyahoga	715,297	195,129	27.3	579,485	59,317	10.2	135,812	53.4	19.0
Darke	19,063	4,161	21.8	24,233	9,331	38.5	(5,170)	-38.3	27.1
Defiance	16,307	5,232	32.1	17,173	6,098	35.5	(866)	-7.6	5.3
Delaware	69,080	35,612	51.6	84,335	50,867	60.3	(15,255)		22.1
Erie	36,694	11,304	30.8	35,553	10,163	28.6	1,141	5.3	3.1
Fairfield	42,643	13,171	30.9	67,373	37,901	56.3	(24,730)	-48.4	58.0
Fayette	12,284	4,288	34.9	13,112	5,116	39.0	(828)	-8.8	6.7
Franklin	676,409	170,507	25.2	561,794	55,892	9.9	114,615	50.6	16.9
Fulton	18,668	7,636	40.9	19,894	8,862	44.5	(1,226)	-7.4	6.6
Gallia	13,155	3,754	28.5	12,184	2,783	22.8	971	14.9	7.4
Geauga	35,262	16,047	45.5	44,025	24,810	56.4	(8,763)	-21.4	24.9
Greene	79,916	35,663	44.6	77,386	33,133	42.8	2,530	3.7	3.2
Guernsey	15,657	3,807	24.3	16,635	4,785	28.8	(978)	-11.4	6.2
Hamilton	498,483	188,113	37.7	377,364	66,994	17.8	121,119	47.5	24.3
Hancock	43,344	13,589	31.4	36,398	6,643	18.3	6,946	34.3	16.0
Hardin	9,724	2,247	23.1	13,564	6,087	44.9	(3,840)	-46.1	39.5
Harrison	4,269	1,361	31.9	6,593	3,685	55.9	(2,324)	-46.1	54.4
Henry	10,604	3,258	30.7	13,034	5,688	43.6	(2,430)	-27.2	22.9
Highland	13,268	3,357	25.3	17,458	7,547	43.2	(4,190)	-38.4	31.6
Hocking	7,138	2,177	30.5	12,178	7,217	59.3	(5,040)	-53.7	70.6
Holmes	18,910	5,550	29.3	17,363	4,003	23.1	1,547	16.2	8.2
Huron	23,426	7,349	31.4	26,343	10,266	39.0	(2,917)	-16.6	12.5
Jackson	11,731	3,394	28.9	12,415	4,078	32.8	(684)	-9.2	5.8
Jefferson	26,692	7,302	27.4	28,489	9,099	31.9	(1,797)	-11.0	6.7
Knox	22,314	3,973	17.8	27,230	8,889	32.6	(4,916)	-38.2	22.0
Lake	96,984	27,237	28.1	115,563	45,816	39.6	(18,579)	-25.4	19.2
Lawrence	13,673	3,864	28.3	23,857	14,048	58.9	(10,184)	-56.9	74.5
Licking	59,885	16,818	28.1	76,901	33,834	44.0	(17,016)	-33.6	28.4

County	Workers				Residents		Summary			
	Number of Commuter		Percentage	Employed	Commuter	Percentage	Net Flow	Percent of	Percent of	
	Workers	Inflow (b)		Residents (d)	Outflow	(f)		Commuters	Workers (i)	
	(a)		(c)		(e)		(g)	(h)		
Logan	20,106	5,706	28.4	20,947	6,547	31.3	(841)	-6.9	4.2	
Lorain	104,090	20,824	20.0	134,528	51,262	38.1	(30,438)	-42.2	29.2	
Lucas	214,203	50,398	23.5	195,731	31,926	16.3	18,472	22.4	8.6	
Madison	15,492	7,584	49.0	18,412	10,504	57.0	(2,920)	-16.1	18.8	
Mahoning	102,005	27,039	26.5	101,852	26,886	26.4	153	0.3	0.1	
Marion	29,351	7,645	26.0	28,036	6,330	22.6	1,315	9.4	4.5	
Medina	59,829	21,370	35.7	84,729	46,270	54.6	(24,900)	-36.8	41.6	
Meigs	4,216	618	14.7	8,752	5,154	58.9	(4,536)	-78.6	107.6	
Mercer	17,347	3,383	19.5	19,909	5,945	29.9	(2,562)	-27.5	14.8	
Miami	42,905	13,057	30.4	48,727	18,879	38.7	(5,822)	-18.2	13.6	
Monroe	4,849	1,610	33.2	5,531	2,292	41.4	(682)	-17.5	14.1	
Montgomery .	263,040	74,583	28.4	238,542	50,085	21.0	24,498	19.7	9.3	
Morgan	3,281	493	15.0	5,790	3,002	51.8	(2,509)	-71.8	76.5	
Morrow	7,915	2,705	34.2	16,403	11,193	68.2	(8,488)	-61.1	107.2	
Muskingum	35,627	7,461	20.9	36,664	8,498	23.2	(1,037)	-6.5	2.9	
Noble	3,899	1,295	33.2	4,697	2,093	44.6	(798)	-23.6	20.5	
Ottawa	14,704	4,385	29.8	19,539	9,220	47.2	(4,835)	-35.5	32.9	
Paulding	5,626	1,305	23.2	8,803	4,482	50.9	(3,177)	-54.9	56.5	
Perry	6,877	1,839	26.7	14,788	9,750	65.9	(7,911)	-68.3	115.0	
Pickaway	14,881	6,585	44.3	21,921	13,625	62.2	(7,040)	-34.8	47.3	
Pike	10,618	4,689	44.2	9,750	3,821	39.2	868	10.2	8.2	
Portage	60,524	21,834	36.1	78,566	39,876	50.8	(18,042)	-29.2	29.8	
Preble	12,389	2,918	23.6	19,892	10,421	52.4	(7,503)	-29.2 -56.2	60.6	
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Putnam	11,881	2,630	22.1	17,433	8,182	46.9	(5,552)	-51.4	46.7	
Richland	54,538	11,551	21.2	53,419	10,432	19.5	1,119	5.1	2.1	
Ross	27,893	6,985	25.0	30,029	9,121	30.4	(2,136)	-13.3	7.7	
Sandusky	27,659	8,340	30.2	28,890	9,571	33.1	(1,231)	-6.9	4.5	
Scioto	25,549	4,624	18.1	27,761	6,836	24.6	(2,212)	-19.3	8.7	
Seneca	21,406	5,191	24.3	26,448	10,233	38.7	(5,042)	-32.7	23.6	
Shelby	28,711	11,944	41.6	22,956	6,189	27.0	5,755	31.7	20.0	
Stark	165,038	33,470	20.3	171,273	39,705	23.2	(6,235)	-8.5	3.8	
Summit	270,631	84,218	31.1	256,479	70,066	27.3	14,152	9.2	5.2	
Trumbull	78,838	20,240	25.7	88,253	29,655	33.6	(9,415)	-18.9	11.9	
Tuscarawas	37,257	7,280	19.5	41,165	11,188	27.2	(3,908)	-21.2	10.5	
Union	28,547	16,702	58.5	23,275	11,430	49.1	5,272	18.7	18.5	
Van Wert	11,943	3,378	28.3	13,744	5,179	37.7	(1,801)	-21.0	15.1	
Vinton	2,346	578	24.6	4,888	3,120	63.8	(2,542)	-68.7	108.4	
Warren	83,134	42,162	50.7	98,849	57,877	58.6	(15,715)	-15.7	18.9	
Washington	24,654	6,951	28.2	26,355	8,652	32.8	(1,701)	-10.9	6.9	
Wayne	50,258	11,752	23.4	53,999	15,493	28.7	(3,741)	-13.7	7.4	
Williams	17,240	4,381	25.4	17,267	4,408	25.5	(27)	-0.3	0.2	
Wood	62,839	27,904	44.4	61,130	26,195	42.9	1,709	3.2	2.7	
				-						
Wyandot	9,023	2,484	27.5	11,096	4,557	41.1	(2,073)	-29.4	23.0	

NOTES: (a) Number of people who work in the county. (b) Number of people who live in another county (or state) but work in the county. (c) Commuter inflow as a percent number of workers. (d) Number of people who live in the county and work (resident labor force). (e) Number of people who live in the county but work outside the county. (g) Commuter inflow less commuter outflow. (h) Net flow as a percent of total commuters. (i) Net flow as a percent of number of workers.

Technical Notes: Workforce Commuting Patterns

The workforce commuting patterns report presents statistics about where Ohioans live and work. In the notes below, Adams County data are used as an example to explain the definitions.

Workers (columns a, b, and c)

Column (a) is the number of people (8,020) who reported **working** in Adams County, regardless of their place of residence. Column (b) is the number of people (1,547) who **work** in Adams County but **live** elsewhere, either in another county or in another state. Column (c) is the percent of **workers** in the county who **live** elsewhere; the commuter inflow of people working in Adams County is 19.3 percent (1,547 divided by 8,020).

$$Column(c) = \frac{Column(b)}{Column(a)} \times 100$$

Residents (columns d, e, and f)

Column (d) is the number of employed people (10,322) **living** in the county regardless of the location of their work. Column (e) is the number of people (3,849) who **live** in Adams County but **work** elsewhere, either in another county or in another state. Column (f) is the percent of employed **residents** in Adams County who **work** elsewhere; the commuter outflow of people who live in Adams County is 37.3 percent (3,849 divided by 10,322).

$$Column (f) = \frac{Column (e)}{Column (d)} \times 100$$

Summary (columns g, h, and i)

Column (g) is the **net flow**, the commuter inflow minus the commuter outflow. A positive number means that more people commute into the county for work than leave it, while a negative number indicates that more people leave the county than enter it for work. Adams County has a net loss of 2,302 workers who commute for work (1,547 minus 3,849).

$$Column(g) = Column(b) - Column(e)$$

Column (h) measures the degree of dependency of each county for either labor from other counties (positive percent) or employment in other counties (negative percent). Theoretically, if **commuter inflow** and outflow were equal in the county, the result would be zero which would indicate a balance between commuter inflow and outflow and as a result no dependency on other counties for either labor or employment. If the **commuter outflow** was zero the percent of commuters would be +100 percent or total dependency for labor. If the **commuter inflow** was zero the percent of commuters would be -100 percent or total dependency for employment supply for the county's residents. Adams County, at -42.7 percent, depends on other counties to supply employment for its residents.

$$Column (h) = \frac{Column (g)}{Column (b) + Column (e)} \times 100 = \frac{Column (b) - Column (e)}{Column (b) + Column (e)} \times 100$$

Column (i) is the absolute value of the net flow as a percent of the number of workers in the county, which represents the significance of the net flow to the overall size of the labor force working in the county. In Adams County, 28.7 percent (2,302 divided by 8,020) of the labor force commutes for work. Sixty of the 88 counties in Ohio have 10.0 percent or higher net flow as a percent of workers, indicating that commuting is a significant factor in the labor force.

Column (i) =
$$\left| \frac{Column(g)}{Column(a)} \right| \times 100$$

Conclusion

Workforce commuting patterns are a measure of labor market fluidity and demonstrate how counties depend on the economic activity of their regions. The labor and economic dynamics of local jurisdictions are best understood in the context of larger regional markets.

Source: U.S. Census Bureau, 2006-2010 American Community Survey For detailed information about Residence County to Workplace County Flows, see http://www.census.gov/population/metro/data/other.html