

Regional Water Planning Study Appendix C Water Demand County-Level Summaries

Wabash Headwaters Region

Jacobs Engineering Group Inc.

Report to Indiana Finance Authority



Jacobs

January 2025

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C1 County-level Average Water Demand Results

Tables C1-1 and C1-2 summarize the county-level water demand for this regional water planning study of the Wabash Headwaters Region. Table C1-1 shows the historical demand on an annual average daily demand (million gallons per day [MGD]) for all sectors, and Table C1-2 show the future demand on an annual average daily demand (MGD) for all sectors.

Table C1-1. Historical Annual Average Daily Demand for the Counties in the Study Area (1985 through 2020)

County	Annual Average Daily Demand (MGD)							
	1985	1990	1995	2000	2005	2010	2015	2020
Blackford	3.16	2.92	2.37	2.77	2.19	2.06	2.15	2.38
Carroll	2.01	1.99	2.68	4.92	5.00	3.31	7.32	8.88
Cass	7.20	27.25	28.18	31.73	32.80	27.94	25.50	8.57
Grant	13.90	11.05	12.33	13.22	13.56	11.99	10.55	7.71
Huntington	1.74	5.56	4.60	5.73	5.13	4.28	5.97	4.83
Jay	3.25	3.25	2.80	2.71	2.99	2.83	3.83	4.15
Miami	6.41	7.35	6.80	8.84	34.37	20.08	7.90	10.93
Wabash	8.36	9.73	8.94	8.48	6.21	6.01	6.27	6.19
Wells	2.24	2.84	3.43	4.36	4.05	6.61	6.18	4.71
Whitley	2.70	2.92	3.14	3.36	3.55	3.95	4.10	4.61

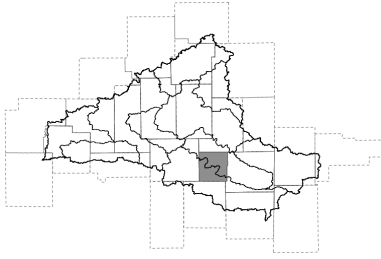
Table C1-2. Projected Annual Average Daily Demand for the Counties in the Study Area (2025 through 2070)

County	Annual Average Daily Demand (MGD)									
	2025	2030	2035	2040	2045	2050	2055	2060	2065	2070
Blackford	2.28	2.30	2.32	2.34	2.35	2.37	2.39	2.40	2.41	2.42
Carroll	7.08	6.84	6.74	6.63	7.04	6.71	6.87	6.62	6.51	6.36
Cass	10.47	9.98	9.58	9.0	8.90	7.90	7.96	7.69	7.77	7.85
Grant	10.15	9.78	9.36	9.05	8.90	8.87	8.89	8.85	8.87	8.90
Huntington	5.83	5.69	5.65	5.53	5.48	5.36	5.34	5.20	5.14	5.05
Jay	4.01	4.07	4.17	4.26	4.35	4.49	4.64	4.71	4.82	4.92
Miami	11.29	11.14	11.16	11.10	11.40	11.09	11.25	11.12	11.12	11.02
Wabash	6.26	5.85	5.72	5.56	5.72	5.52	5.64	5.46	5.70	5.74
Wells	5.60	5.58	5.53	5.49	5.43	5.42	5.37	5.35	5.29	5.25
Whitley	4.60	4.51	4.63	4.68	5.06	5.08	5.41	5.35	5.51	5.59

C2 Water Demand per County Summaries

The following single-page summaries present the known water withdrawal point, the most current (2022) water demand and supply source, and the forecasted water demand through 2070 for each county located entirely in the Wabash Headwaters Region. Summaries of partial counties in the Wabash Headwaters Region study area were not prepared.

C2.1 Blackford County



Sub-basin 1 Mississinewa-Marion
Sub-basin 2 Salamonie-Warren

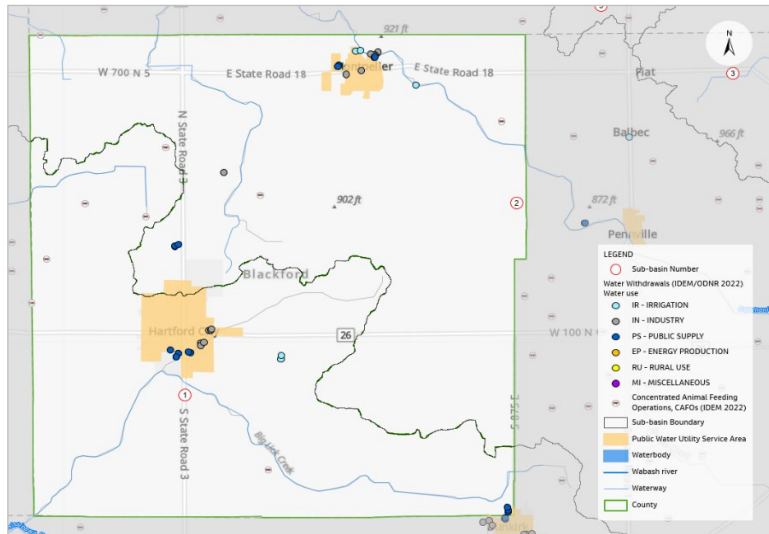


Figure C2-1. Blackford County Withdrawal Points

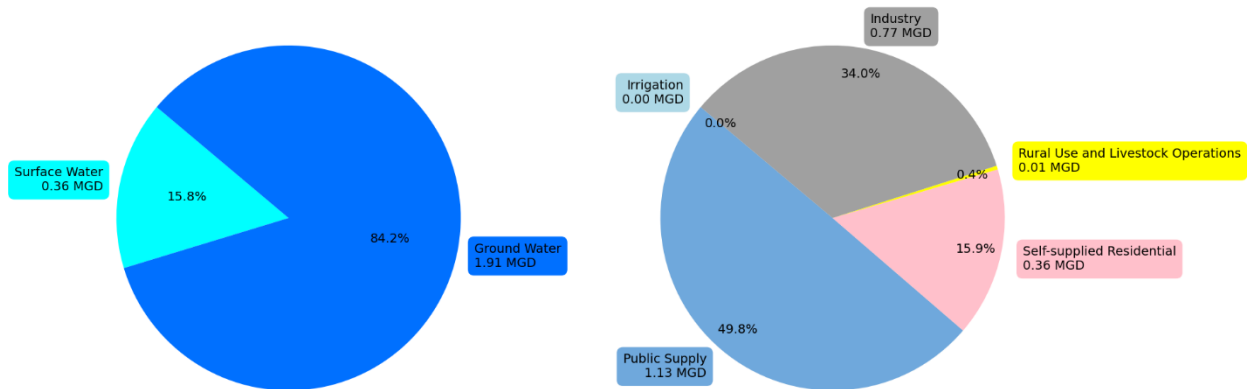


Figure C2-2. Blackford County Current Water Supply and Demand (2022)

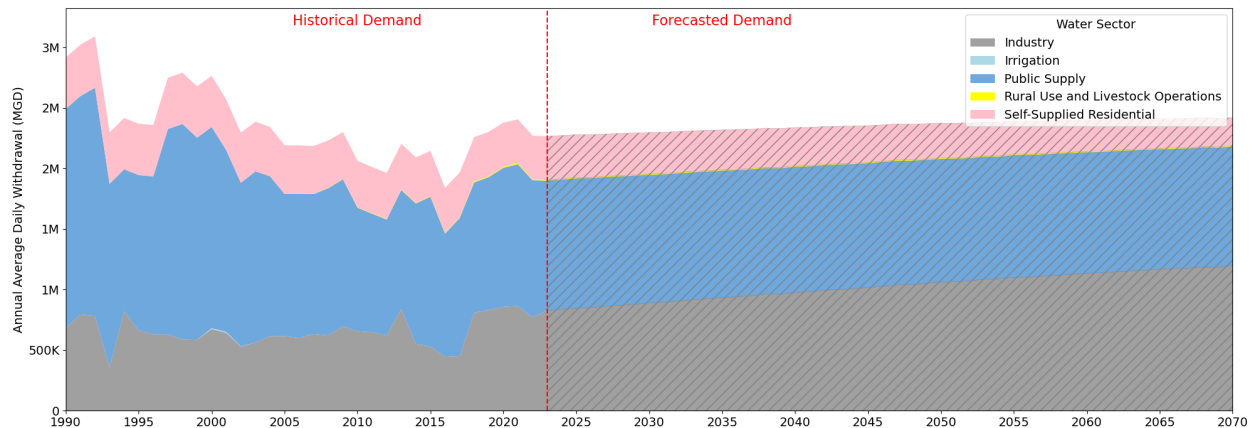
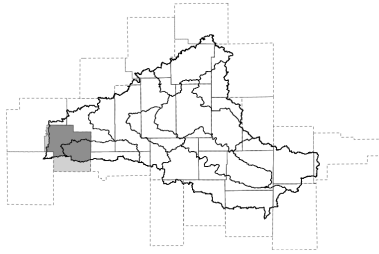


Figure C2-3. Blackford County Historical and Forecasted Water Demand (MGD)

C2.2 Carroll County



Sub-basin 9 Deer Creek-Delphi
Sub-basin 10 Wabash-Ungauged

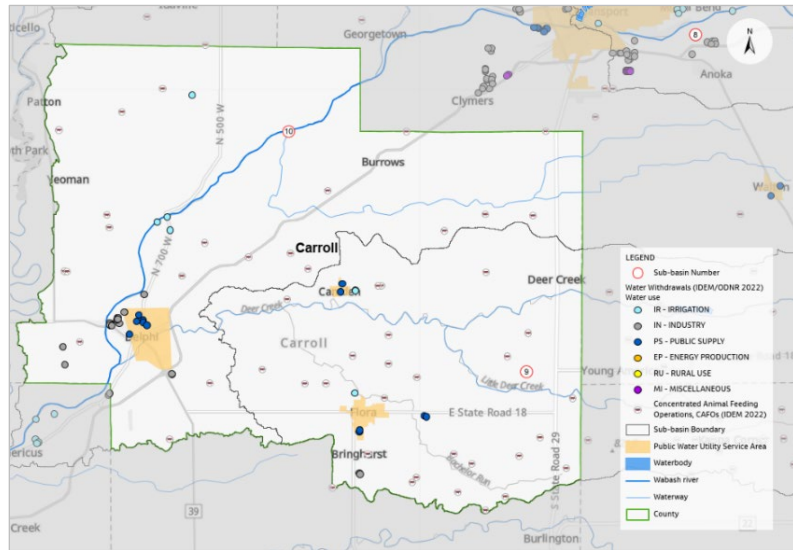


Figure C2-4. Carroll County Withdrawal Points

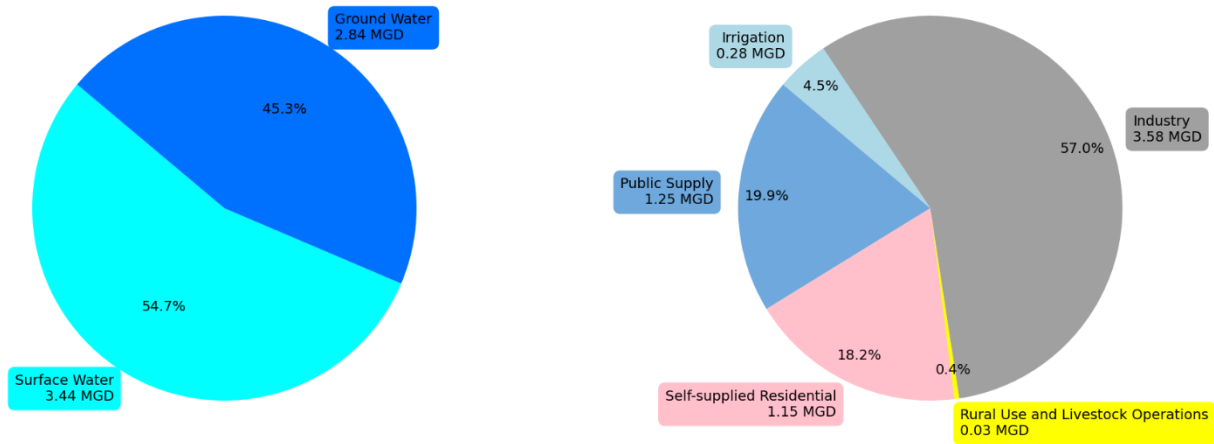


Figure C2-5. Carroll County Current Water Supply and Demand (2022)

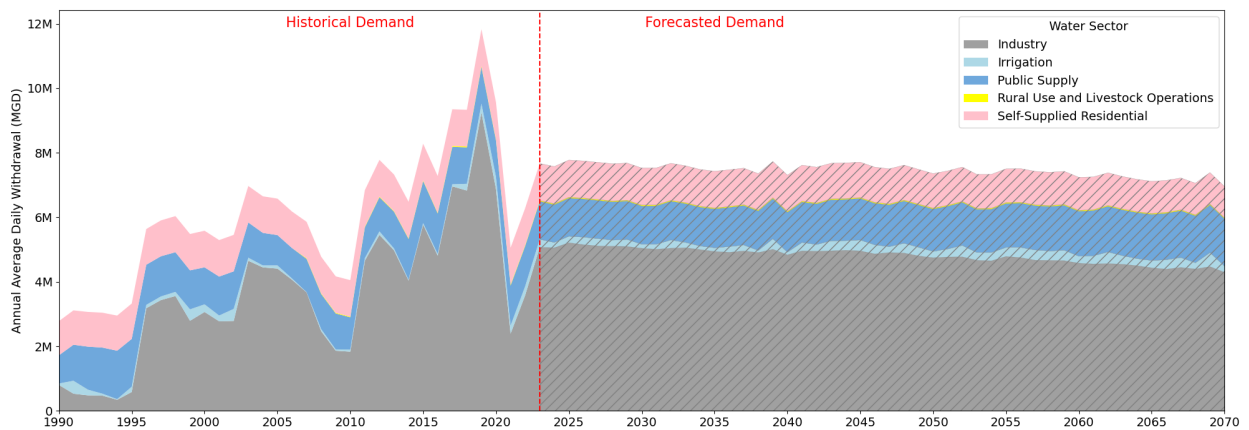
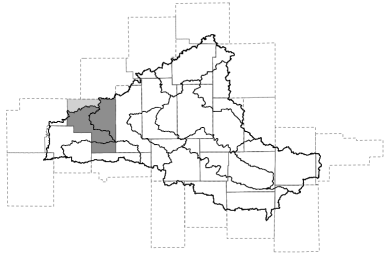


Figure C2-6. Carroll County Historical and Forecasted Water Demand (MGD)

C2.3 Cass County



Sub-basin 8 Wabash-Logansport
Sub-basin 9 Deer Creek-Delphi
Sub-basin 10 Wabash-Ungauged

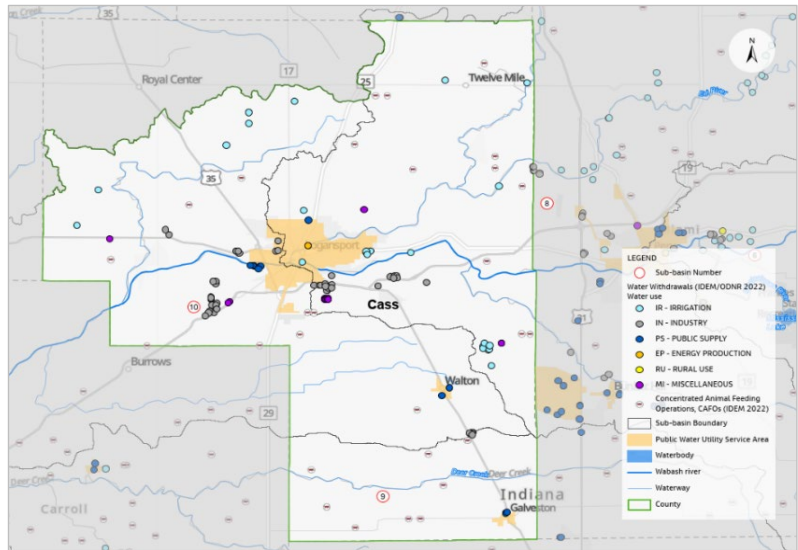


Figure C2-7. Cass County Withdrawal Points

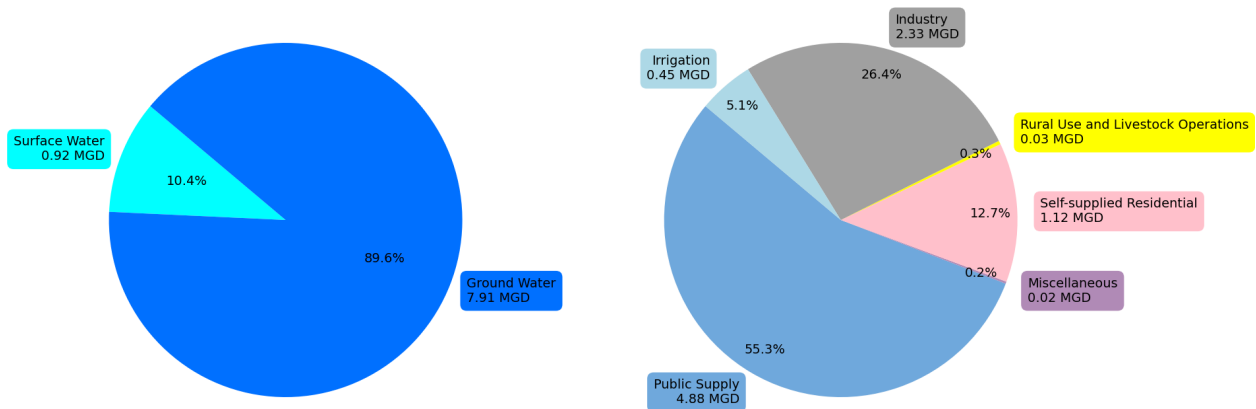


Figure C2-8. Cass County Current Water Supply and Demand (2022)

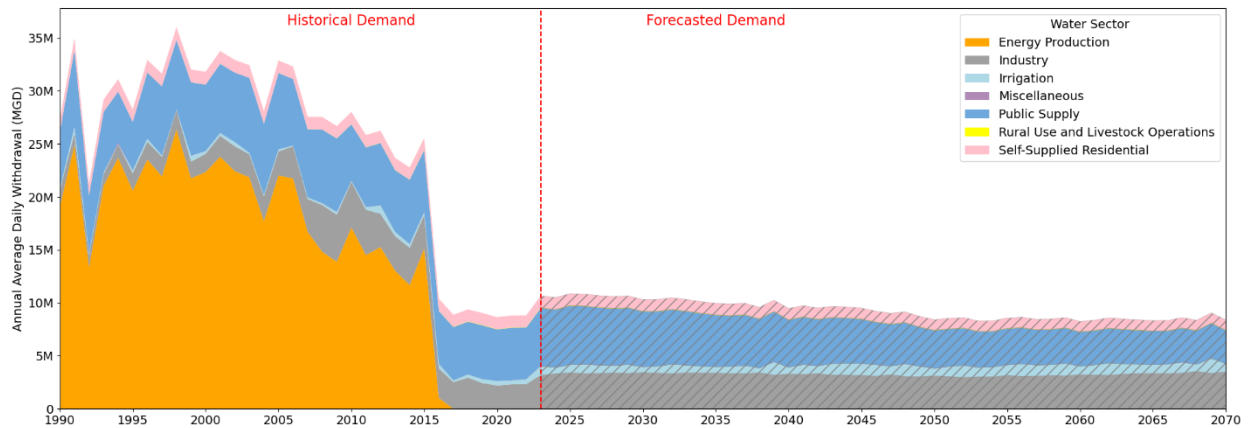
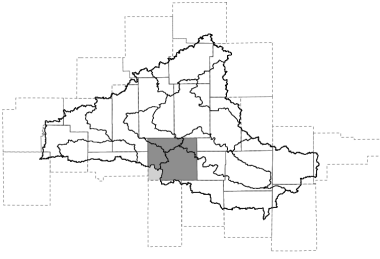


Figure C2-9. Cass County Historical and Forecasted Water Demand (MGD)

C2.4 Grant County



- Sub-basin 1 Mississinewa-Marion
- Sub-basin 2 Salamonie-Warren
- Sub-basin 5 Wabash-Wabash
- Sub-basin 6 Wabash-Peru
- Sub-basin 8 Wabash-Logansport

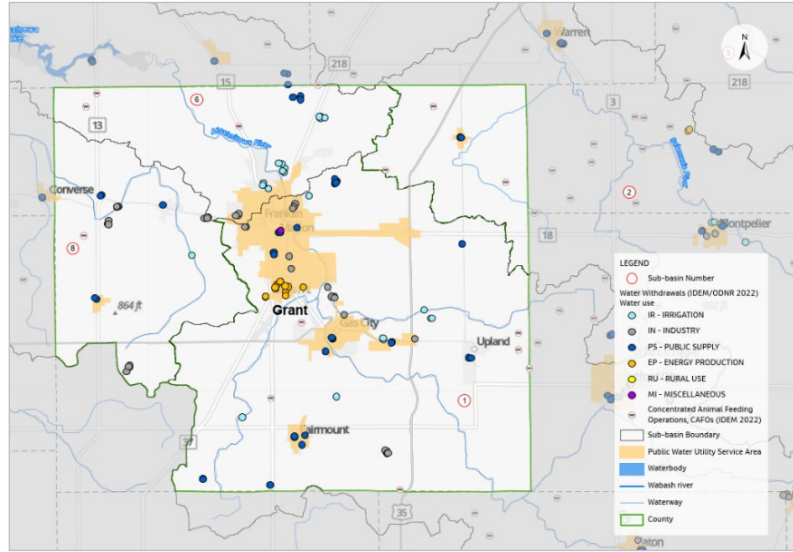


Figure C2-10. Grant County Withdrawal Points

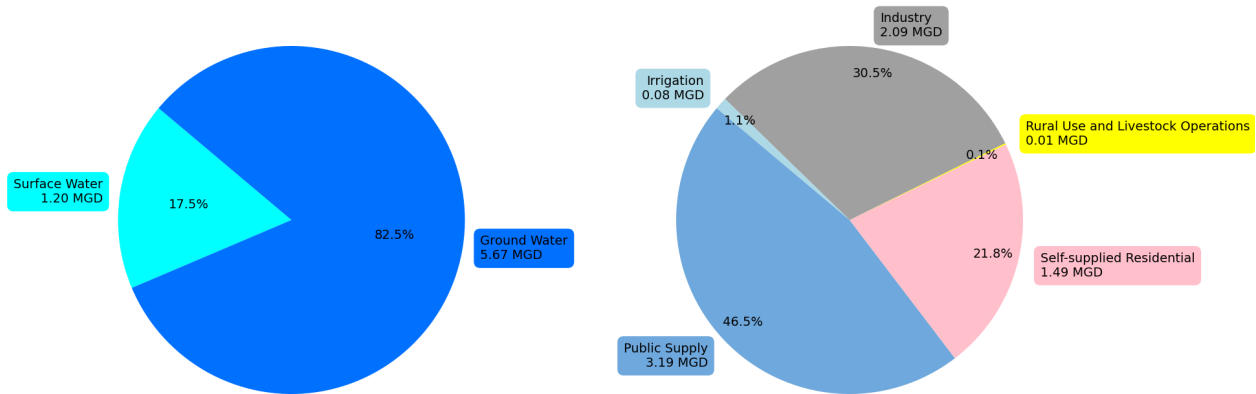


Figure C2-11. Grant County Current Water Supply and Demand (2022)

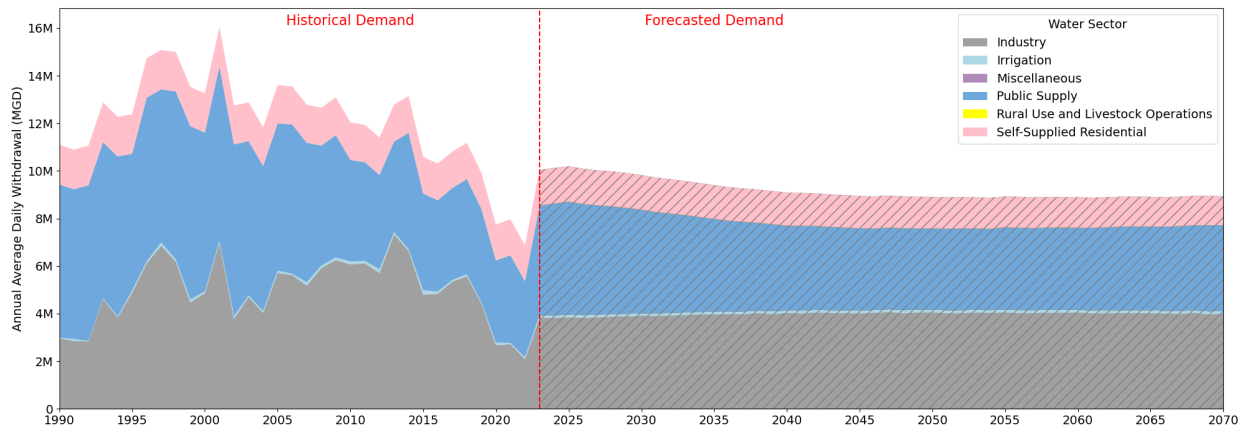
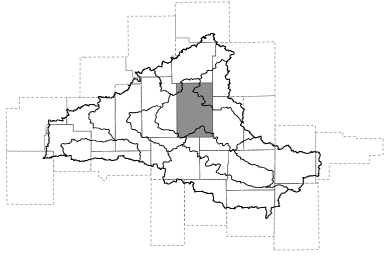


Figure C2-12. Grant County Historical and Forecasted Water Demand (MGD)

C2.5 Huntington County



- Sub-basin 2 Salamonie-Warren
- Sub-basin 4 Little-Huntington
- Sub-basin 5 Wabash-Wabash
- Sub-basin 6 Wabash-Peru
- Sub-basin 7 Eel-North Manchester

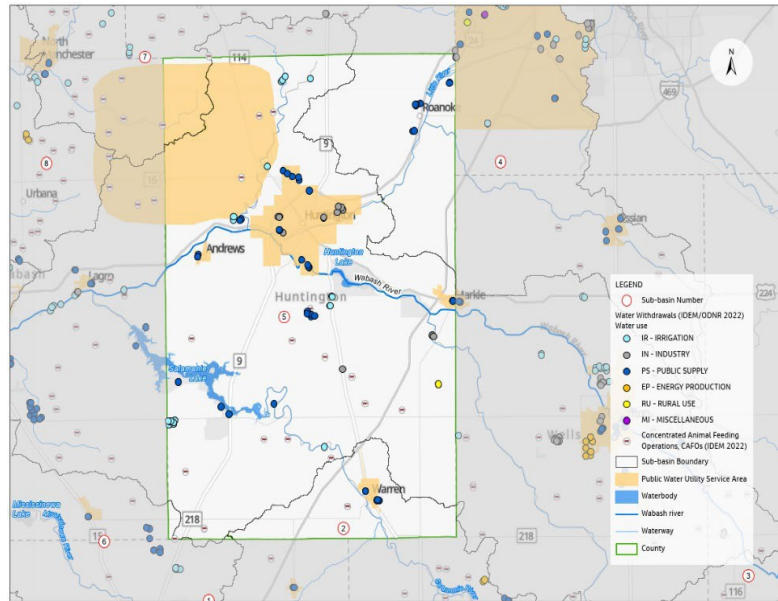


Figure C2-13. Huntington County Withdrawal Points

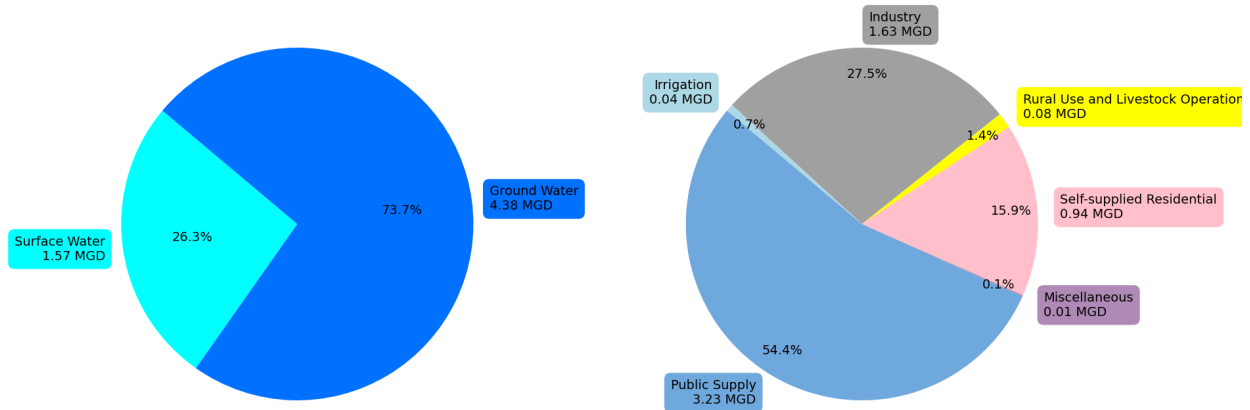


Figure C2-14. Huntington County Current Water Supply and Demand (2022)

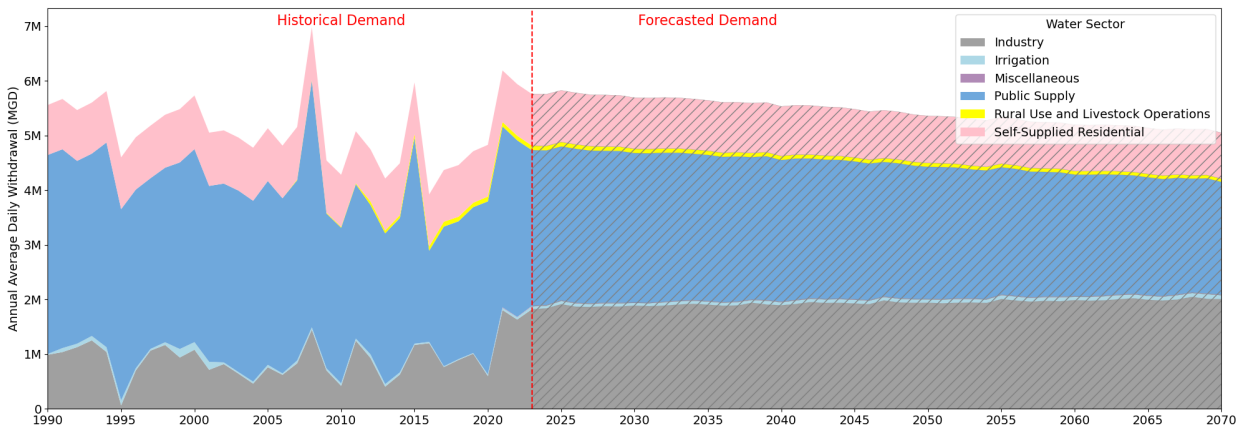
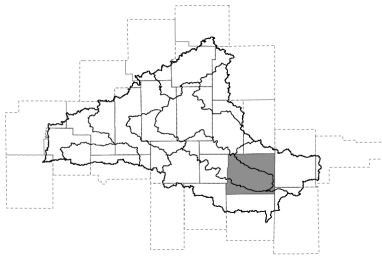


Figure C2-15. Huntington County Historical and Forecasted Water Demand (MGD)

C2.6 Jay County



- Sub-basin 1 Mississinewa-Marion
- Sub-basin 2 Salamonie-Warren
- Sub-basin 3 Wabash-Linn Grove
- Sub-basin 5 Wabash-Wabash

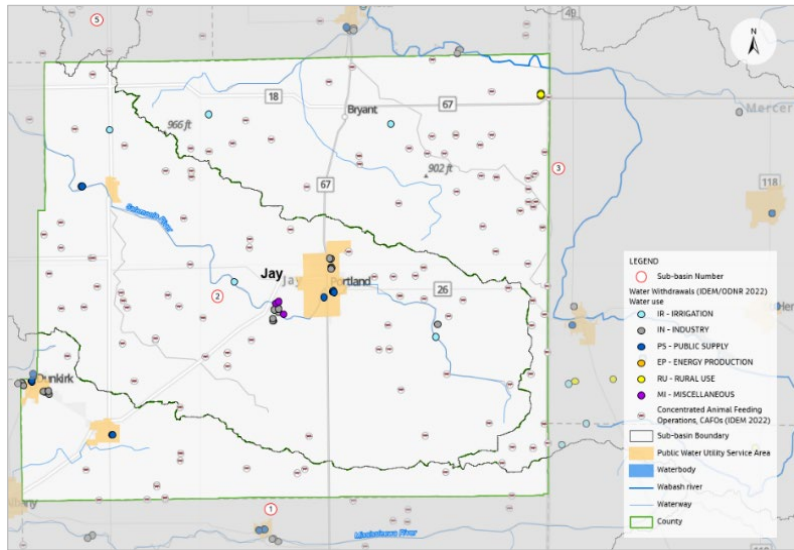


Figure C2-16. Jay County Withdrawal Points

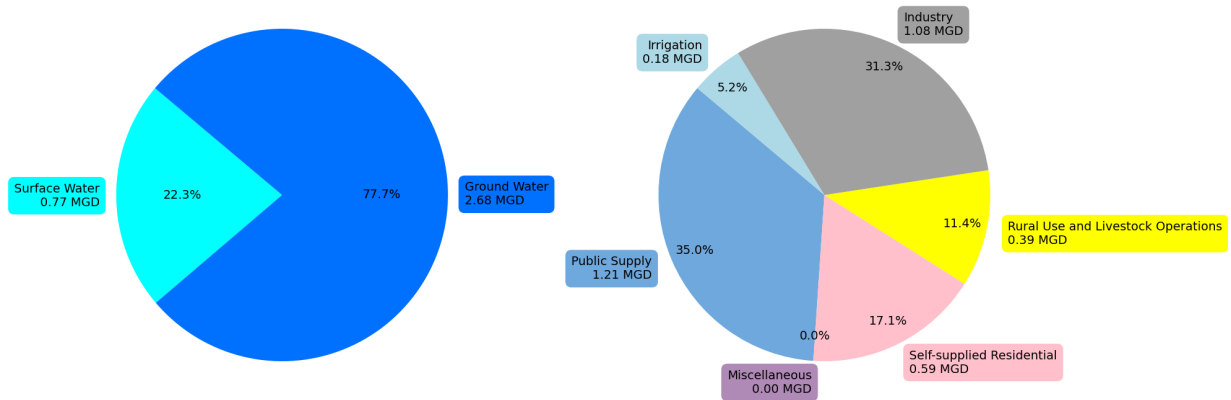


Figure C2-17. Jay County Current Water Supply and Demand (2022)

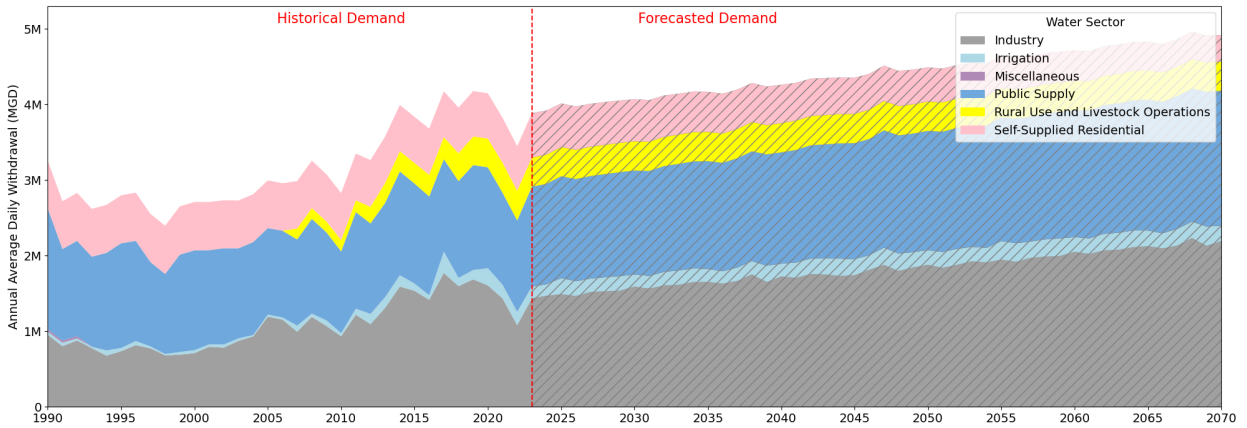
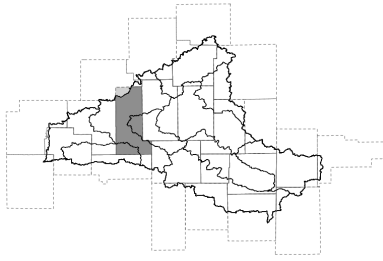


Figure C2-18. Jay County Historical and Forecasted Water Demand (MGD)

C2.7 Miami County



Sub-basin 6 Wabash-Peru
Sub-basin 8 Wabash-Logansport
Sub-basin 9 Deer Creek-Delphi

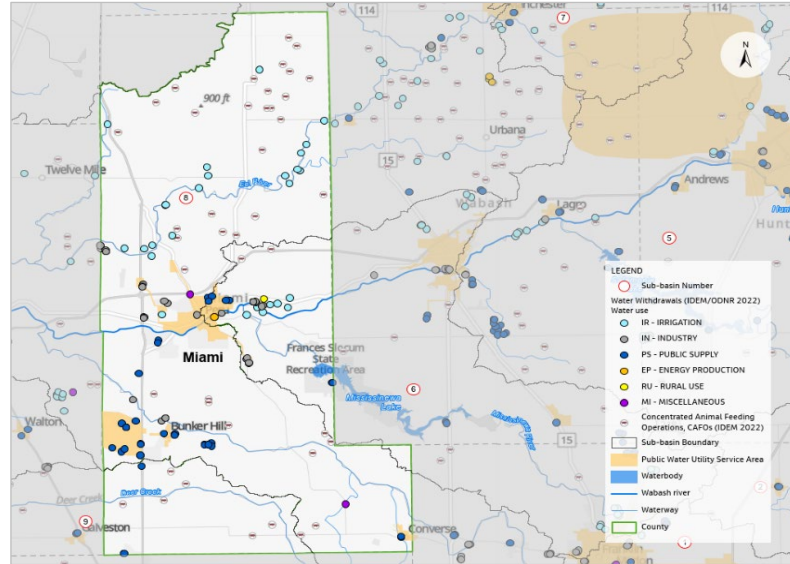


Figure C2-19. Miami County Withdrawal Points

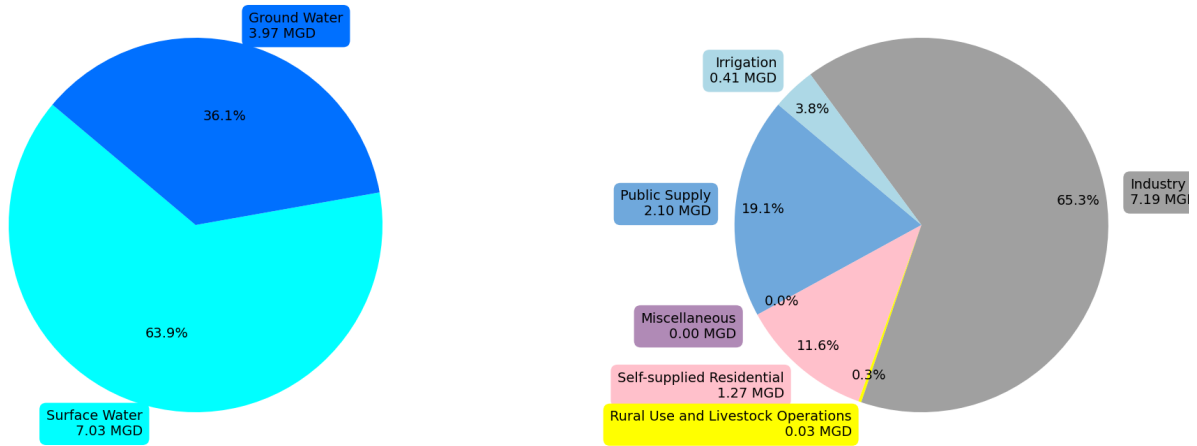


Figure C2-20. Miami County Current Water Supply and Demand (2022)

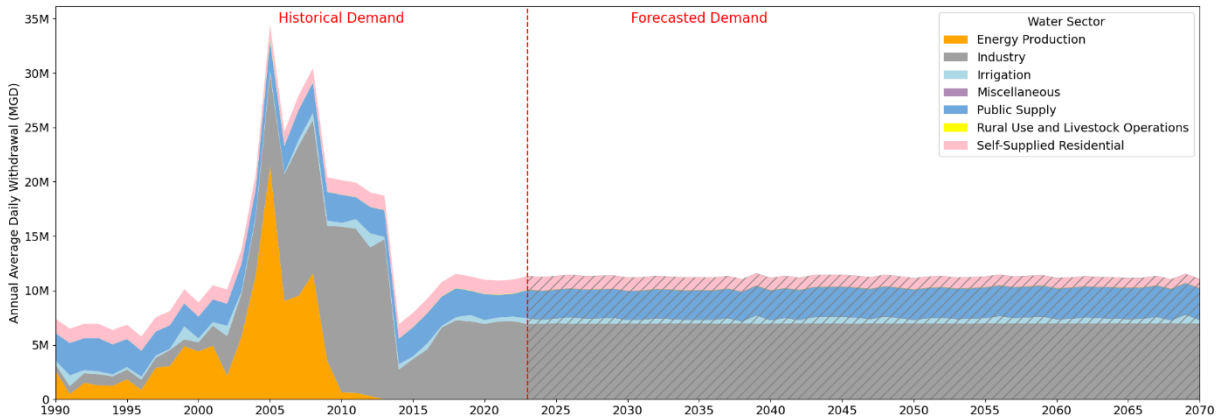
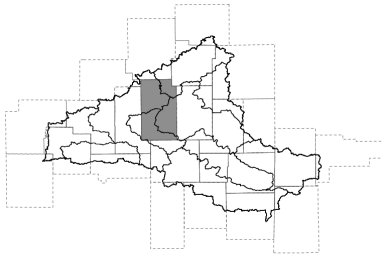


Figure C2-21. Miami County Historical and Forecasted Water Demand (MGD)

C2.8 Wabash County



Sub-basin 5 Wabash-Wabash
Sub-basin 6 Wabash-Peru
Sub-basin 7 Eel-North Manchester
Sub-basin 8 Wabash-Logansport

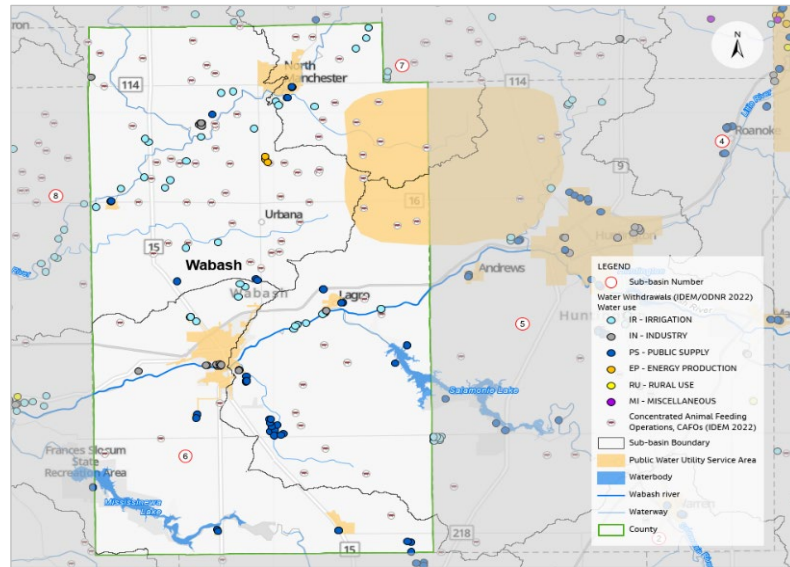


Figure C2-22. Wabash County Withdrawal Points

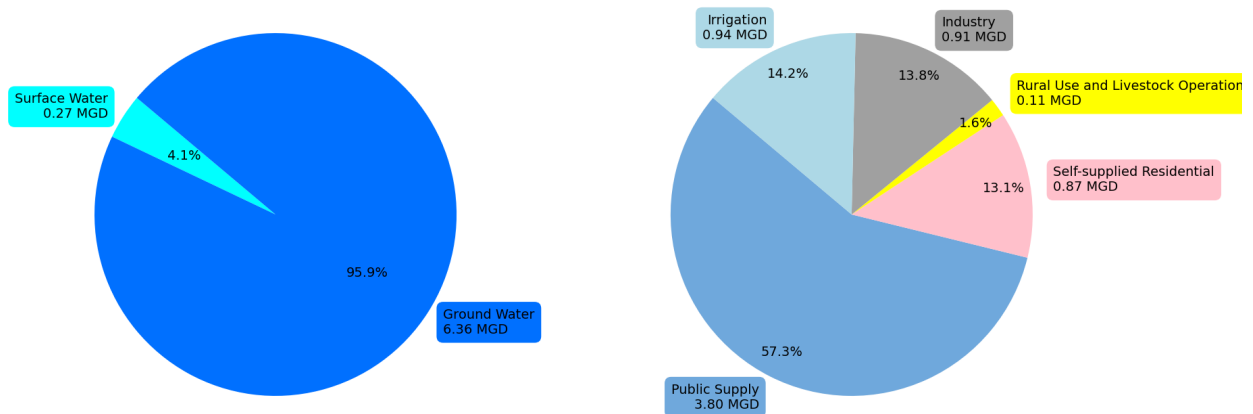


Figure C2-23. Wabash County Current Water Supply and Demand (2022)

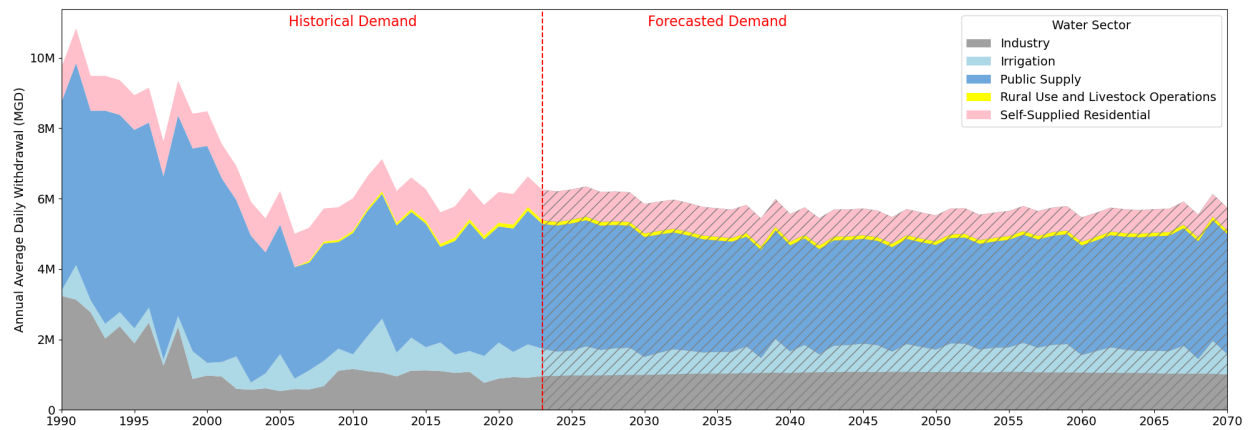
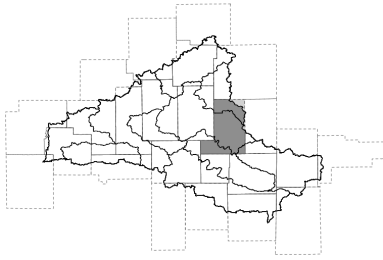


Figure C2-24. Wabash County Historical and Forecasted Water Demand (MGD)

C2.9 Wells County



Sub-basin 2 Salamonie-Warren
Sub-basin 3 Wabash-Linn Grove
Sub-basin 4 Little-Huntington
Sub-basin 5 Wabash-Wabash

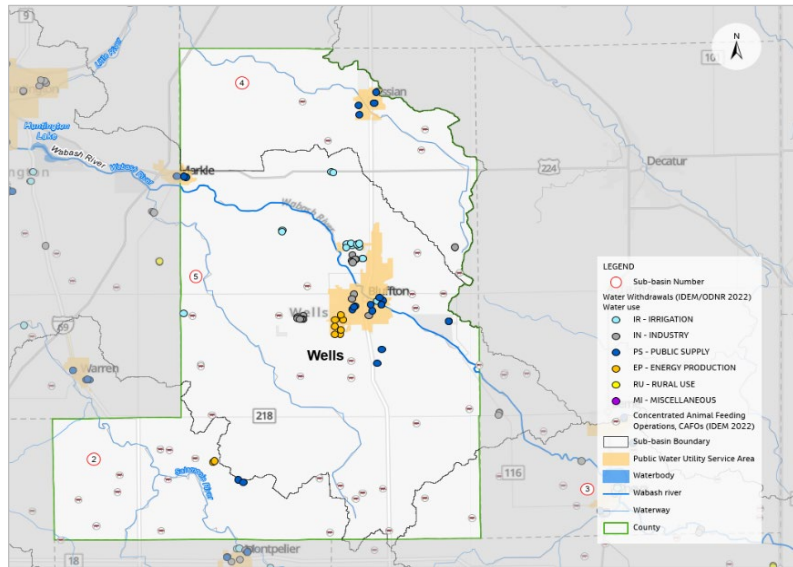


Figure C2-25. Wells County Withdrawal Points

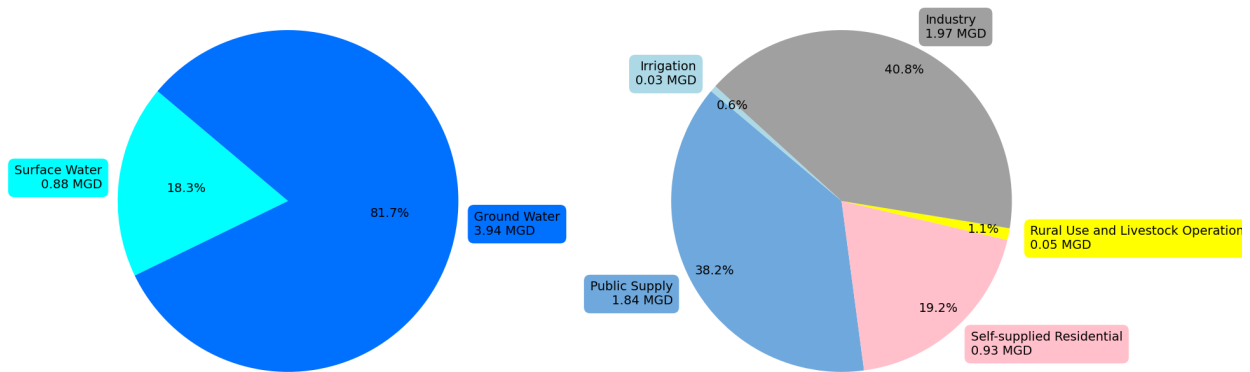


Figure C2-26. Wells County Current Water Supply and Demand (2022)

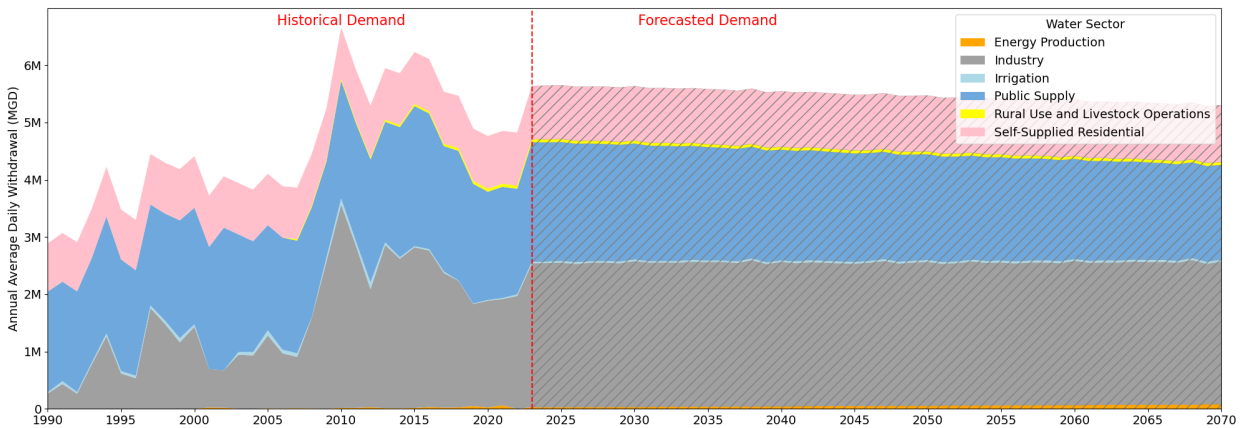
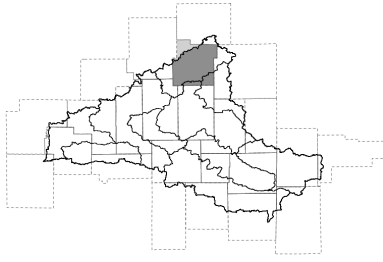


Figure C2-27. Wells County Historical and Forecasted Water Demand (MGD)

C2.10 Whitley County



Sub-basin 4 Little-Huntington
Sub-basin 5 Wabash-Wabash
Sub-basin 7 Eel-North Manchester

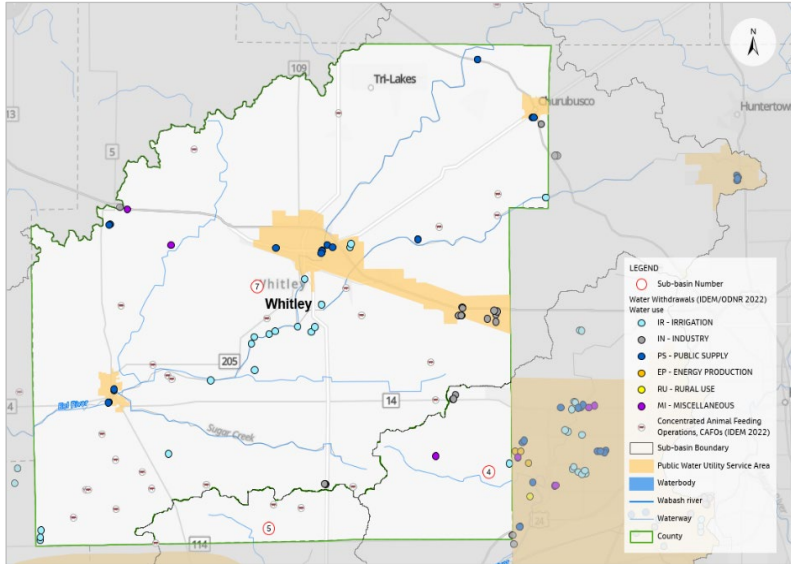


Figure C2-28. Whitley County Withdrawal Points

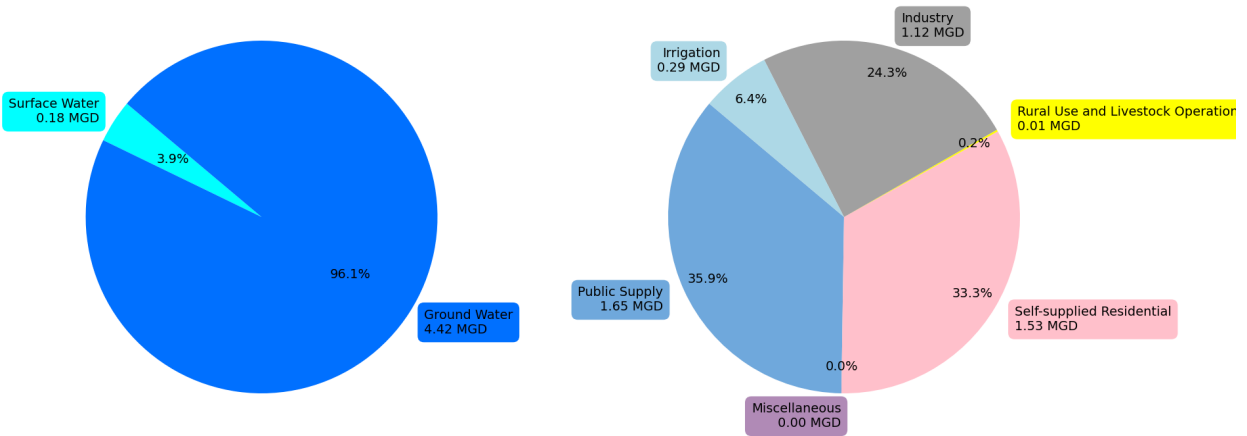


Figure C2-29. Whitley County Current Water Supply and Demand (2022)

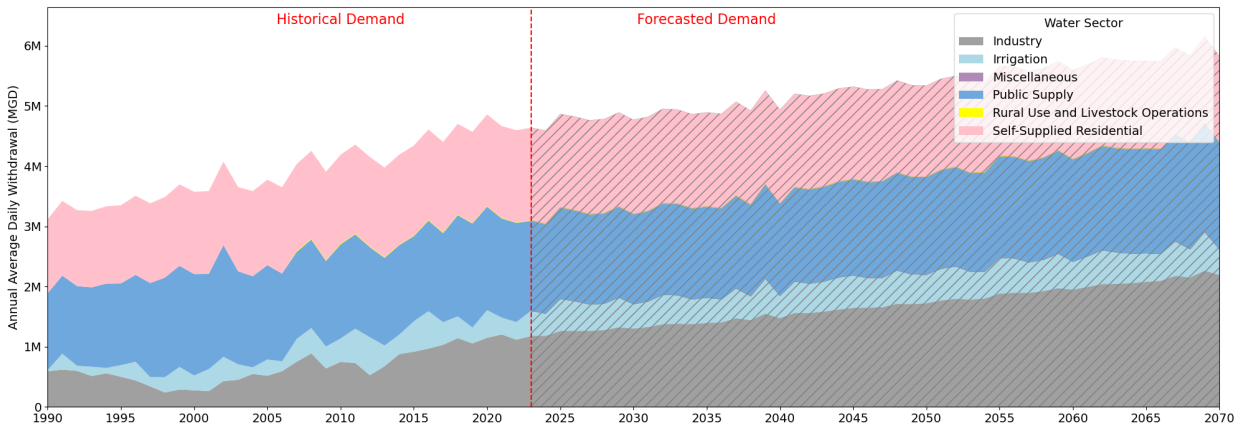


Figure C2-30. Whitley County Historical and Forecasted Water Demand (MGD)

C3 County-level Public Supply Water Demand Results

Tables C3-1 and C3-2 summarize the public supply water demand for the counties in the Wabash Headwaters Region. Table C3-1 shows the historical demand on an annual average daily demand (MGD) for all sectors, and Table C3-2 show the future demand on an annual average daily demand (MGD) for all sectors. Annual average water demand for public supply for the counties in the region is projected to decline by 7% in the next 50 years (2020 to 2070). Water demand for five of the counties in the region is estimated to increase from 3% (Wabash County) to 33% (Jay County).

Tables C3-3 through C3-10 summarize the seasonal public supply water demand for the counties in the Wabash Headwaters Region. Peak water demand for public supply will continue to be observed during the dry summer months. Peak water demand for public supply for the counties in the region is projected to decline by 7% in the next 50 years (2020 to 2070). The counties expected to experience increased annual average water demands are also expected to experience increased peak water demand between 4% (Wabash County) and 33% (Jay County).

Table C3-1. Historical Annual Average Daily Demand for Public Supply for the Counties in the Study Area (1985 through 2020)

County	Annual Average Daily Demand (MGD)							
	1985	1990	1995	2000	2005	2010	2015	2020
Blackford	2.16	1.81	1.28	1.66	1.17	1.02	1.24	1.15
Carroll	0.93	0.87	1.48	1.15	0.94	1.00	1.31	1.13
Cass	5.39	5.39	4.57	6.27	7.20	5.34	5.86	4.87
Grant	9.18	6.44	5.75	6.67	6.19	4.27	4.06	3.46
Huntington	0.65	3.64	3.50	3.53	3.36	2.85	3.77	3.17
Jay	1.64	1.60	1.38	1.32	1.14	1.08	1.32	1.33
Miami	2.94	2.51	2.59	1.99	2.73	2.58	2.68	2.38
Wabash	3.58	5.36	5.64	6.16	3.68	3.45	3.51	3.30
Wells	1.15	1.75	1.95	2.04	1.84	2.06	2.45	1.89
Whitley	1.25	1.27	1.36	1.68	1.57	1.56	1.41	1.72

Table C3-2. Projected Annual Average Daily Demand for Public Supply for the Counties in the Study Area (2025 through 2070)

County	Annual Average Daily Demand (MGD)									
	2025	2030	2035	2040	2045	2050	2055	2060	2065	2070
Blackford	1.07	1.06	1.05	1.04	1.03	1.02	1.01	1.00	0.99	0.98
Carroll	1.18	1.19	1.21	1.23	1.29	1.31	1.36	1.39	1.43	1.47
Cass	5.54	5.20	4.86	4.45	4.16	3.54	3.42	3.21	3.15	3.11
Grant	4.74	4.34	3.89	3.56	3.43	3.40	3.44	3.44	3.51	3.59
Huntington	2.82	2.73	2.67	2.59	2.52	2.42	2.33	2.23	2.16	2.06
Jay	1.34	1.37	1.42	1.47	1.53	1.57	1.63	1.67	1.73	1.78
Miami	2.61	2.64	2.67	2.70	2.73	2.76	2.79	2.81	2.84	2.87
Wabash	3.61	3.40	3.17	3.01	2.97	2.97	3.05	3.11	3.25	3.40
Wells	2.07	2.02	1.98	1.93	1.89	1.84	1.80	1.74	1.70	1.65
Whitley	1.51	1.49	1.51	1.52	1.59	1.62	1.68	1.69	1.73	1.77

Table C3-3. Historical Average Daily Demand for Public Supply during Winter (1985 through 2020)

County	Winter Average Daily Demand (MGD)								
	1985	1990	1995	2000	2005	2010	2015	2020	
Blackford	2.01	1.57	1.24	1.57	1.23	1.05	1.14	1.15	
Carroll	0.91	0.89	1.41	1.08	0.92	0.94	1.28	1.11	
Cass	4.61	4.66	3.72	6.09	6.14	4.76	5.67	4.91	
Grant	8.43	6.08	6.08	6.90	5.62	4.56	4.06	3.76	
Huntington	0.67	3.91	3.81	3.78	3.32	2.69	3.46	3.10	
Jay	1.66	1.55	1.29	1.29	1.14	1.00	1.27	1.36	
Miami	2.95	2.38	2.45	1.97	2.62	2.45	2.60	2.74	
Wabash	3.39	5.06	5.32	6.00	3.37	3.21	3.68	2.90	
Wells	1.08	1.74	1.82	1.97	1.80	1.95	2.28	1.81	
Whitley	1.16	1.19	1.29	1.55	1.45	1.50	1.32	1.67	

Table C3-4. Projected Annual Average Daily Demand for Public Supply for Winter (2025 through 2070)

County	Winter Average Daily Demand (MGD)									
	2025	2030	2035	2040	2045	2050	2055	2060	2065	2070
Blackford	1.07	1.05	1.04	1.03	1.02	1.01	1.01	0.99	0.99	0.98
Carroll	1.16	1.15	1.16	1.20	1.25	1.28	1.34	1.36	1.39	1.44
Cass	5.03	4.46	4.07	3.76	3.43	2.88	2.88	2.49	2.37	2.40
Grant	4.66	4.17	3.72	3.41	3.26	3.25	3.33	3.26	3.34	3.44
Huntington	2.86	2.78	2.65	2.61	2.52	2.43	2.37	2.26	2.12	2.07
Jay	1.32	1.33	1.38	1.44	1.49	1.55	1.62	1.64	1.69	1.75
Miami	2.59	2.62	2.65	2.67	2.70	2.73	2.76	2.79	2.82	2.85
Wabash	3.57	3.30	3.02	2.91	2.84	2.86	2.98	3.00	3.10	3.30
Wells	2.00	1.93	1.88	1.84	1.80	1.75	1.72	1.66	1.60	1.56
Whitley	1.44	1.37	1.37	1.42	1.47	1.51	1.60	1.59	1.60	1.66

Table C3-5. Historical Average Daily Demand for Public Supply during Spring (1985 through 2020)

County	Spring Average Daily Demand (MGD)							
	1985	1990	1995	2000	2005	2010	2015	2020
Blackford	2.04	1.82	1.17	1.49	1.22	1.07	1.44	1.14
Carroll	0.93	0.94	1.52	1.09	0.91	0.99	1.32	1.06
Cass	4.89	5.31	3.30	5.40	6.50	4.70	6.05	4.56
Grant	8.87	6.38	6.01	6.65	6.46	4.59	3.69	2.99
Huntington	0.66	3.52	3.18	3.46	3.39	2.82	2.87	3.08
Jay	1.74	1.23	1.46	1.31	1.08	1.05	1.30	1.43
Miami	2.91	2.50	2.51	1.97	2.85	2.52	2.68	2.38
Wabash	3.63	5.03	5.34	6.02	3.13	2.98	4.26	3.18
Wells	1.01	1.69	2.06	1.94	1.77	2.06	2.63	1.80
Whitley	1.24	1.28	1.34	1.66	1.51	1.46	1.43	1.63

Table C3-6. Projected Annual Average Daily Demand for Public Supply for Spring (2025 through 2070)

County	Spring Average Daily Demand (MGD)									
	2025	2030	2035	2040	2045	2050	2055	2060	2065	2070
Blackford	1.07	1.05	1.04	1.03	1.02	1.01	1.00	0.99	0.99	0.98
Carroll	1.16	1.18	1.19	1.21	1.28	1.30	1.34	1.38	1.41	1.44
Cass	5.39	5.24	4.80	4.31	4.13	3.46	3.27	3.20	3.07	2.95
Grant	4.70	4.35	3.87	3.51	3.41	3.36	3.40	3.43	3.47	3.54
Huntington	2.77	2.71	2.65	2.54	2.51	2.39	2.29	2.20	2.13	2.01
Jay	1.32	1.36	1.40	1.45	1.51	1.56	1.61	1.66	1.71	1.76
Miami	2.70	2.73	2.76	2.78	2.81	2.84	2.87	2.90	2.93	2.96
Wabash	3.55	3.39	3.14	2.94	2.93	2.92	2.98	3.07	3.20	3.32
Wells	2.07	2.02	1.98	1.93	1.90	1.84	1.80	1.75	1.70	1.65
Whitley	1.48	1.48	1.49	1.49	1.58	1.59	1.64	1.68	1.71	1.72

Table C3-7. Historical Average Daily Demand for Public Supply during Summer (1985 through 2020)

County	Summer Average Daily Demand (MGD)							
	1985	1990	1995	2000	2005	2010	2015	2020
Blackford	2.32	2.07	1.47	1.90	1.15	0.99	1.25	1.14
Carroll	0.98	0.84	1.59	1.21	1.02	1.06	1.32	1.28
Cass	6.26	6.33	6.18	6.19	8.96	6.59	5.86	5.01
Grant	9.95	7.45	5.54	6.72	6.80	3.78	4.23	3.78
Huntington	0.67	3.67	3.55	3.46	3.45	2.93	3.77	3.24
Jay	1.68	1.69	1.38	1.37	1.22	1.13	1.35	1.36
Miami	3.09	2.84	2.80	2.12	2.94	2.89	2.89	2.44
Wabash	3.98	5.81	6.02	6.49	4.13	4.00	3.17	3.38
Wells	1.28	1.78	2.03	2.10	1.99	2.14	2.59	2.13
Whitley	1.39	1.37	1.47	1.81	1.73	1.65	1.54	1.88

Table C3-8. Projected Annual Average Daily Demand for Public Supply for Summer (2025 through 2070)

County	Summer Average Daily Demand (MGD)									
	2025	2030	2035	2040	2045	2050	2055	2060	2065	2070
Blackford	1.08	1.07	1.06	1.04	1.04	1.03	1.02	1.01	1.00	0.99
Carroll	1.20	1.21	1.24	1.27	1.33	1.35	1.38	1.41	1.47	1.50
Cass	6.05	5.77	5.53	5.11	4.94	4.21	3.93	3.78	3.81	3.76
Grant	4.81	4.45	4.01	3.68	3.60	3.54	3.53	3.56	3.64	3.72
Huntington	2.80	2.71	2.69	2.60	2.55	2.42	2.31	2.20	2.19	2.08
Jay	1.37	1.41	1.46	1.51	1.57	1.61	1.66	1.70	1.76	1.81
Miami	2.68	2.70	2.73	2.76	2.79	2.82	2.85	2.88	2.90	2.93
Wabash	3.68	3.49	3.29	3.11	3.13	3.09	3.13	3.20	3.38	3.51
Wells	2.20	2.15	2.12	2.07	2.04	1.98	1.93	1.88	1.84	1.79
Whitley	1.59	1.58	1.63	1.61	1.73	1.73	1.76	1.78	1.85	1.86

Table C3-9. Historical Average Daily Demand for Public Supply during Fall (1985 through 2020)

County	Fall Average Daily Demand (MGD)								
	1985	1990	1995	2000	2005	2010	2015	2020	
Blackford	2.28	1.79	1.27	1.70	1.10	0.98	1.12	1.18	
Carroll	0.93	0.83	1.42	1.21	0.93	1.01	1.31	1.09	
Cass	5.84	5.31	5.12	7.48	7.27	5.37	5.92	5.06	
Grant	9.56	5.91	5.41	6.49	5.92	4.19	4.32	3.34	
Huntington	0.62	3.51	3.50	3.47	3.33	2.98	5.03	3.27	
Jay	1.52	1.95	1.43	1.33	1.15	1.15	1.39	1.19	
Miami	2.86	2.34	2.62	1.93	2.52	2.50	2.55	1.99	
Wabash	3.35	5.62	5.94	6.20	4.14	3.64	2.95	3.77	
Wells	1.24	1.83	1.90	2.16	1.81	2.12	2.31	1.84	
Whitley	1.23	1.27	1.34	1.73	1.59	1.66	1.38	1.73	

Table C3-10. Projected Annual Average Daily Demand for Public Supply for Fall (2025 through 2070)

County	Fall Average Daily Demand (MGD)									
	2025	2030	2035	2040	2045	2050	2055	2060	2065	2070
Blackford	1.08	1.07	1.06	1.05	1.04	1.03	1.02	1.01	1.00	0.99
Carroll	1.21	1.22	1.24	1.27	1.30	1.34	1.40	1.43	1.47	1.51
Cass	5.76	5.39	5.09	4.65	4.16	3.65	3.62	3.38	3.37	3.34
Grant	4.83	4.42	3.99	3.65	3.50	3.49	3.55	3.54	3.63	3.70
Huntington	2.87	2.77	2.73	2.64	2.54	2.45	2.38	2.27	2.21	2.11
Jay	1.37	1.41	1.46	1.50	1.55	1.60	1.67	1.71	1.77	1.82
Miami	2.51	2.54	2.57	2.60	2.63	2.66	2.69	2.72	2.74	2.77
Wabash	3.69	3.46	3.25	3.09	3.00	3.03	3.14	3.19	3.35	3.52
Wells	2.03	1.98	1.94	1.89	1.84	1.80	1.76	1.71	1.66	1.61
Whitley	1.56	1.54	1.56	1.59	1.61	1.65	1.74	1.75	1.80	1.84