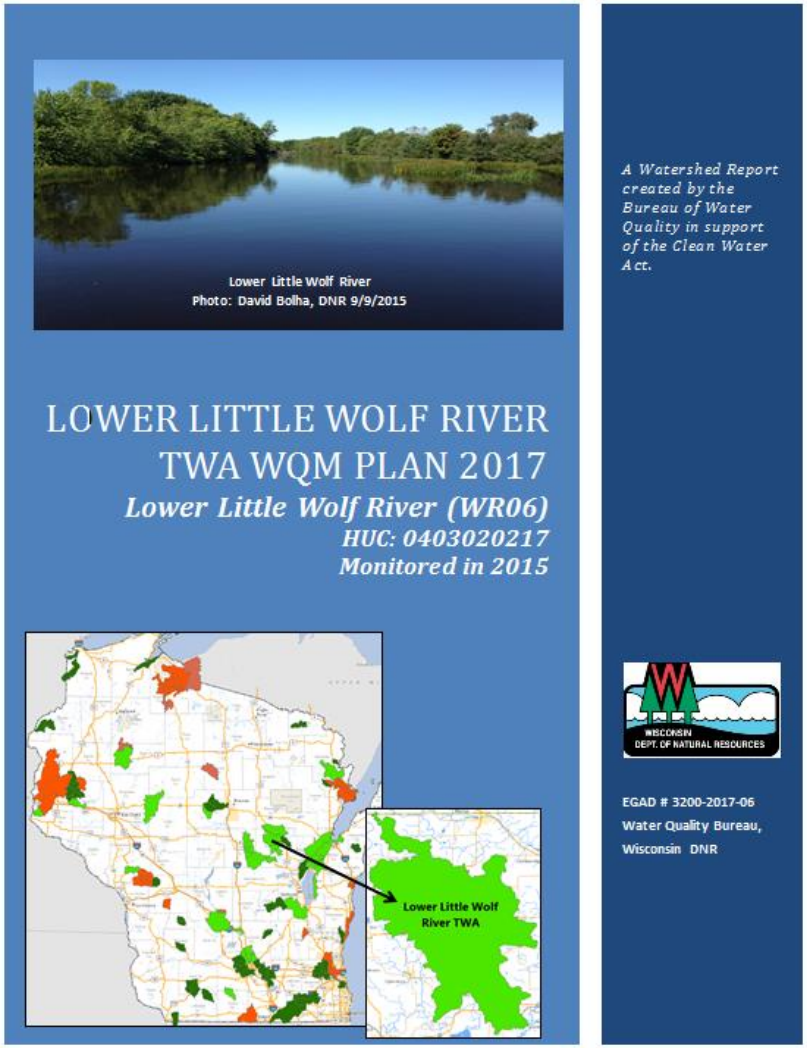
Lower Little Wolf River TWA WQM Plan 2017

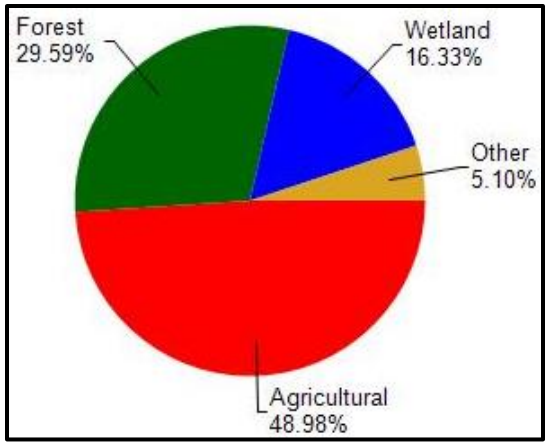
Lower Little Wolf (WR06)

Dave Bolha, DNR Stream Biologist

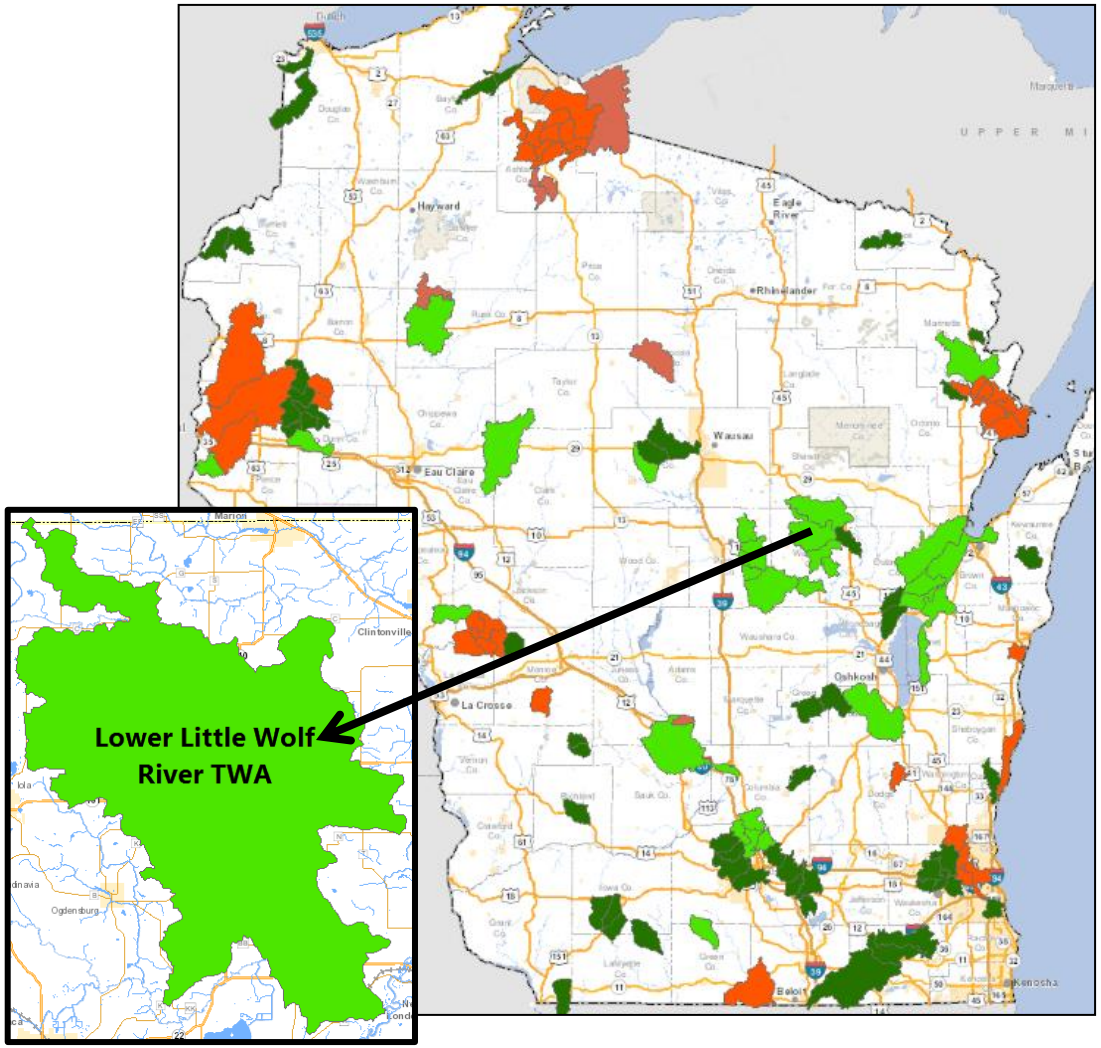
Throughout the presentation when you see this symbol, put your cursor over the box to read more detail.



Project Location and Land Use



- The Lower Little Wolf River watershed is 153.60 mi². Land use in the watershed is primarily agricultural (48%), forest (29%) and a mix of wetland (16%) and other uses (5%) (Figure 2). This watershed has 189.20 stream miles, 1,038.51 lake acres and 21,932.16 wetland acres.



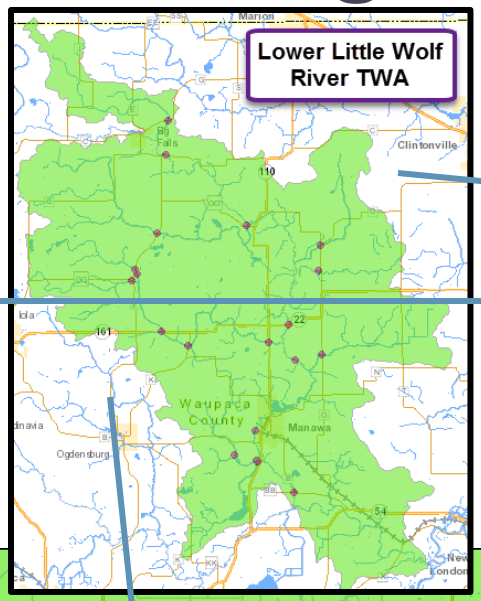
Purpose

- Evaluate water quality improvements made in the Lower Little Wolf River watershed since implementation of best management practices from 1997 through 2008

- Parameters monitored: temperature, quantitative habitat surveys, wadeable fish surveys, macroinvertebrate surveys, and water chemistry


Lower Little Wolf River

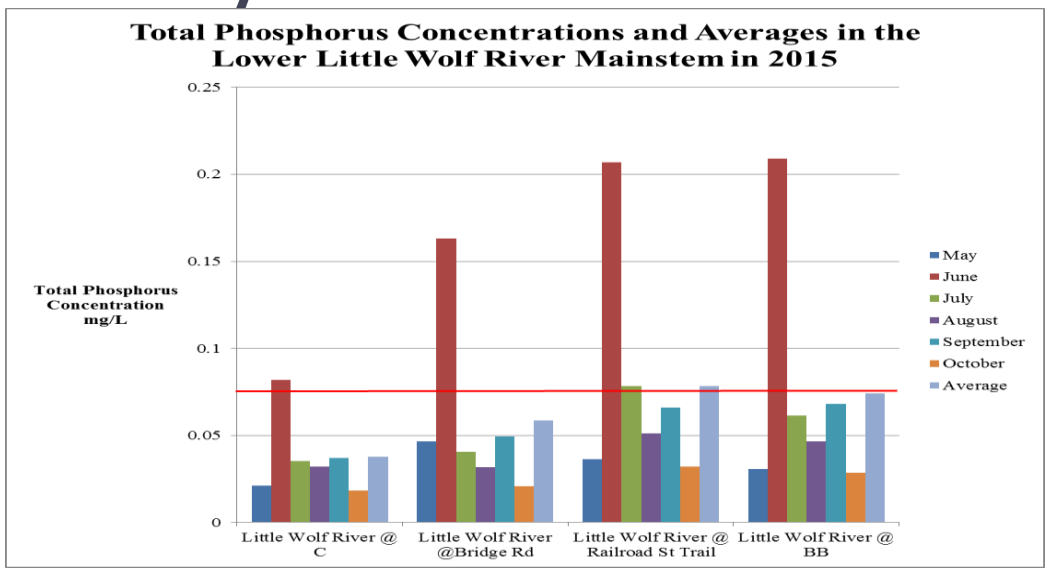
Monitoring Stations



Map ID	Station ID	Station Name
1	693130	Spaulding Creek at G
2	693151	Little Wolf River at C
3	693128	Whitcomb Creek at E
4	693154	North Fork Blake Creek at E
5	10013573	South Fork Blake Creek at E
6	10016223	Whitcomb Creek at OO
7	693131	Shaw Creek at O
8	10030800	Beaver Creek at O
9	693147	Little Wolf River at Hwy 22 Symco
10	693129	Blake Creek at Hwy 22

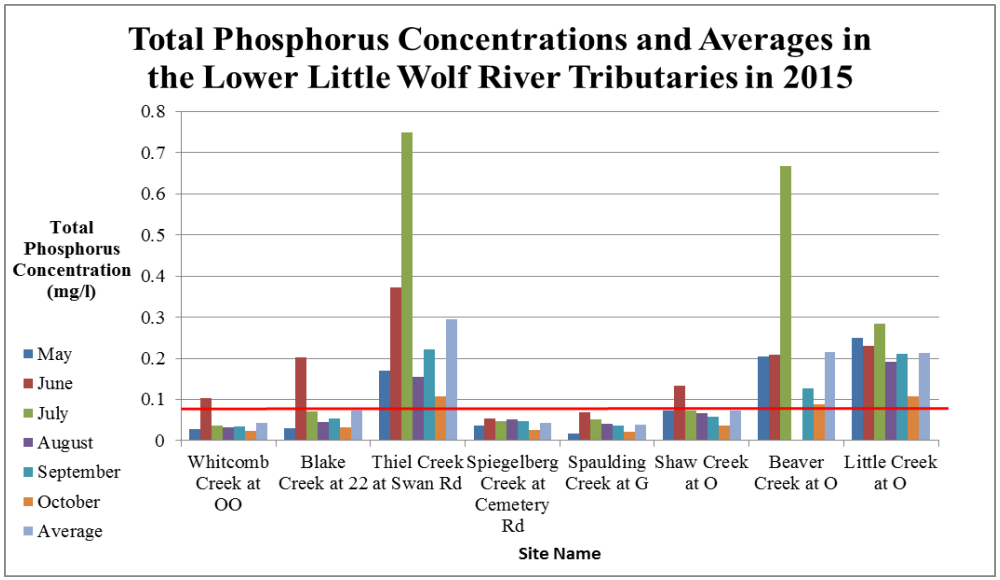
Map ID	Station ID	Station Name
1	693128	Blake Creek at Hwy 22
2	693163	Little Wolf River at Bridge Rd
3	693147	Little Creek at O
4	10043199	Little Wolf River at Railroad St Trail
5	693143	Thiel Creek at Swan Rd
6	693142	Spiegelberg Creek at Cemetery Rd
7	693141	Little Wolf River at BB

Study Results – 2014 Phosphorus

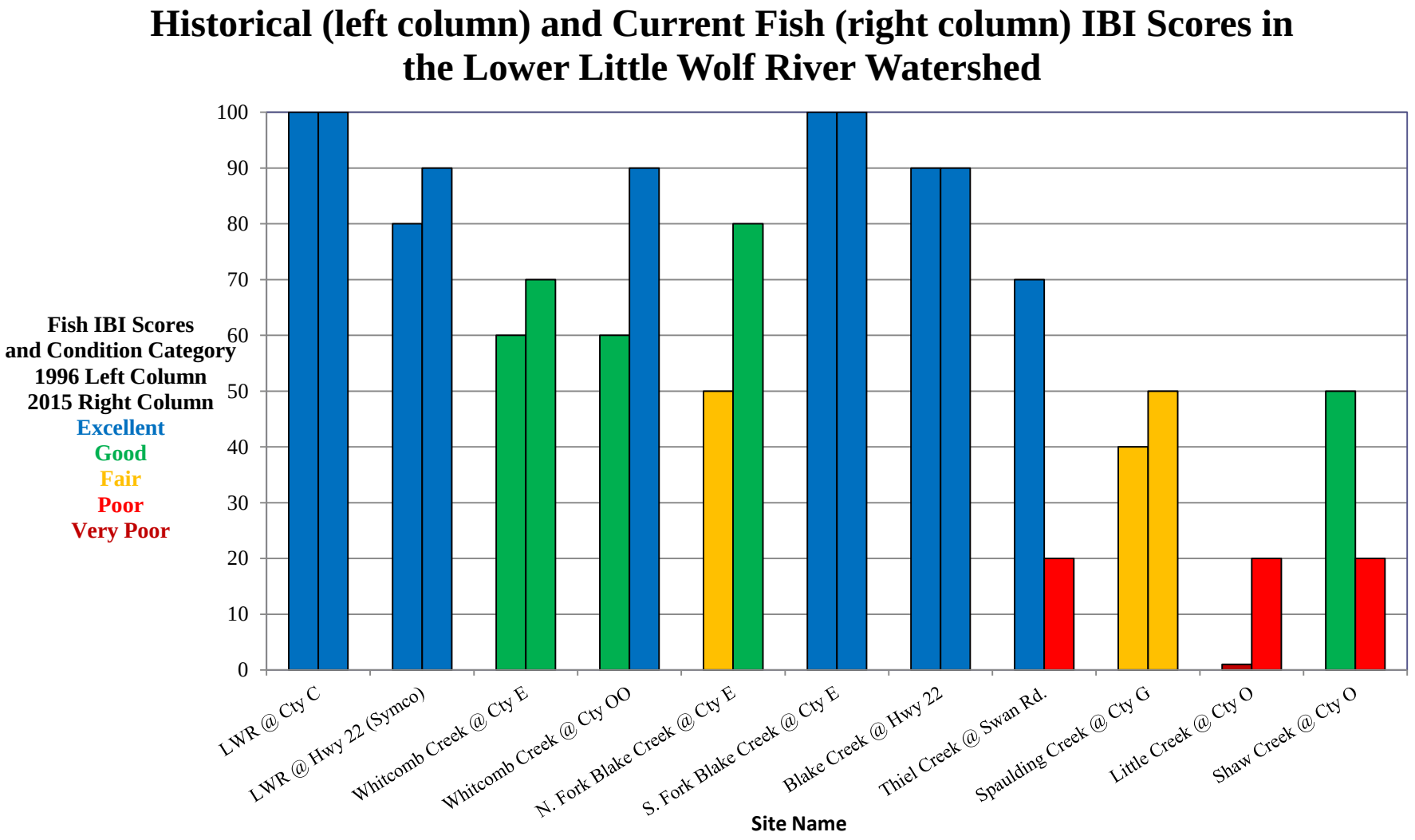


- The 2015 TP sample analysis results in the Lower Little Wolf River Watershed ranged from 0.0172 mg/L at Spaulding Creek in May to 0.749 mg/L at Thiel Creek in July.

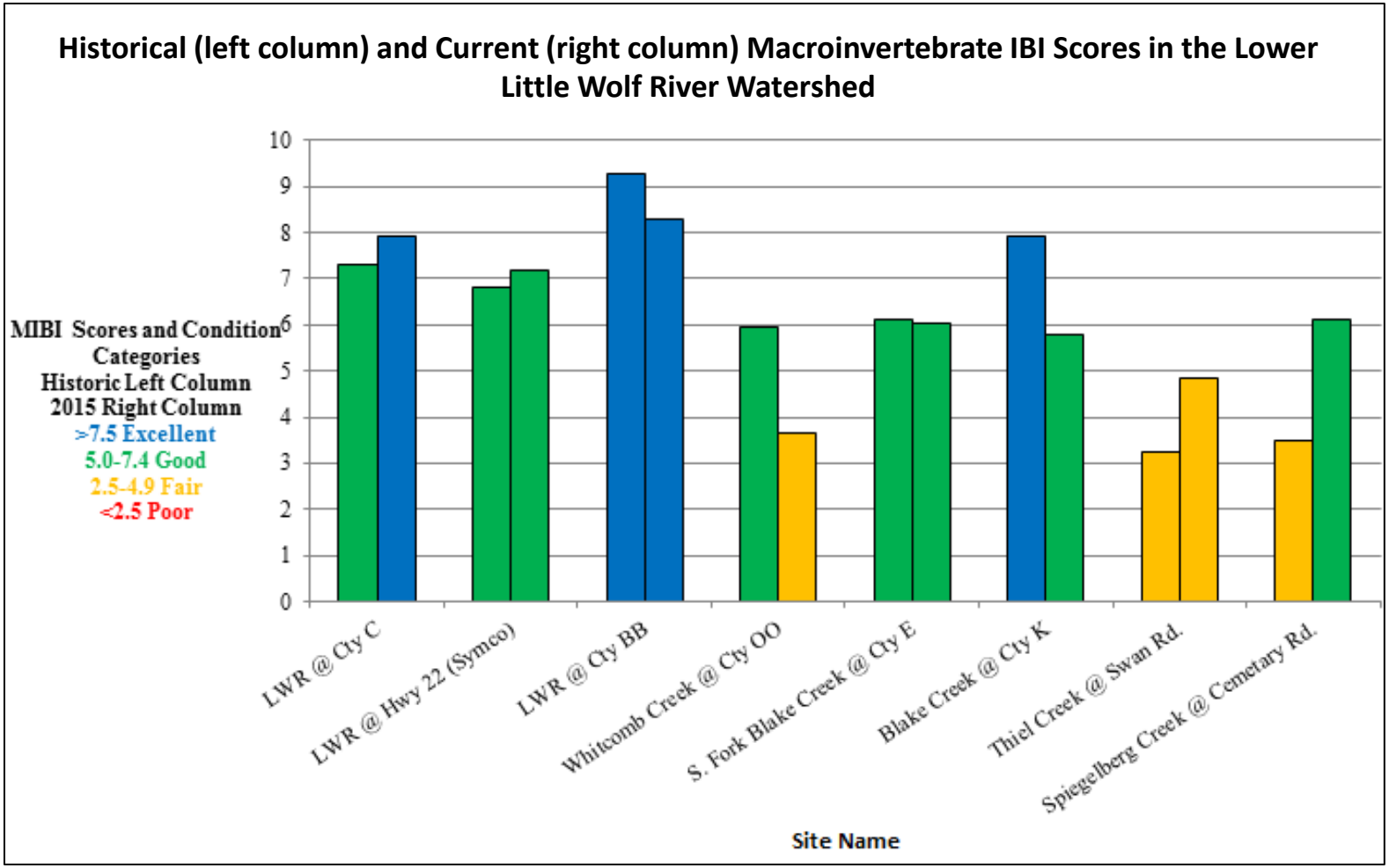
- The TP sample analysis results in the Little Wolf River Mainstem ranged from 0.0182 mg/L at County Hwy C in October to 0.209 mg/L at County Hwy BB in June.



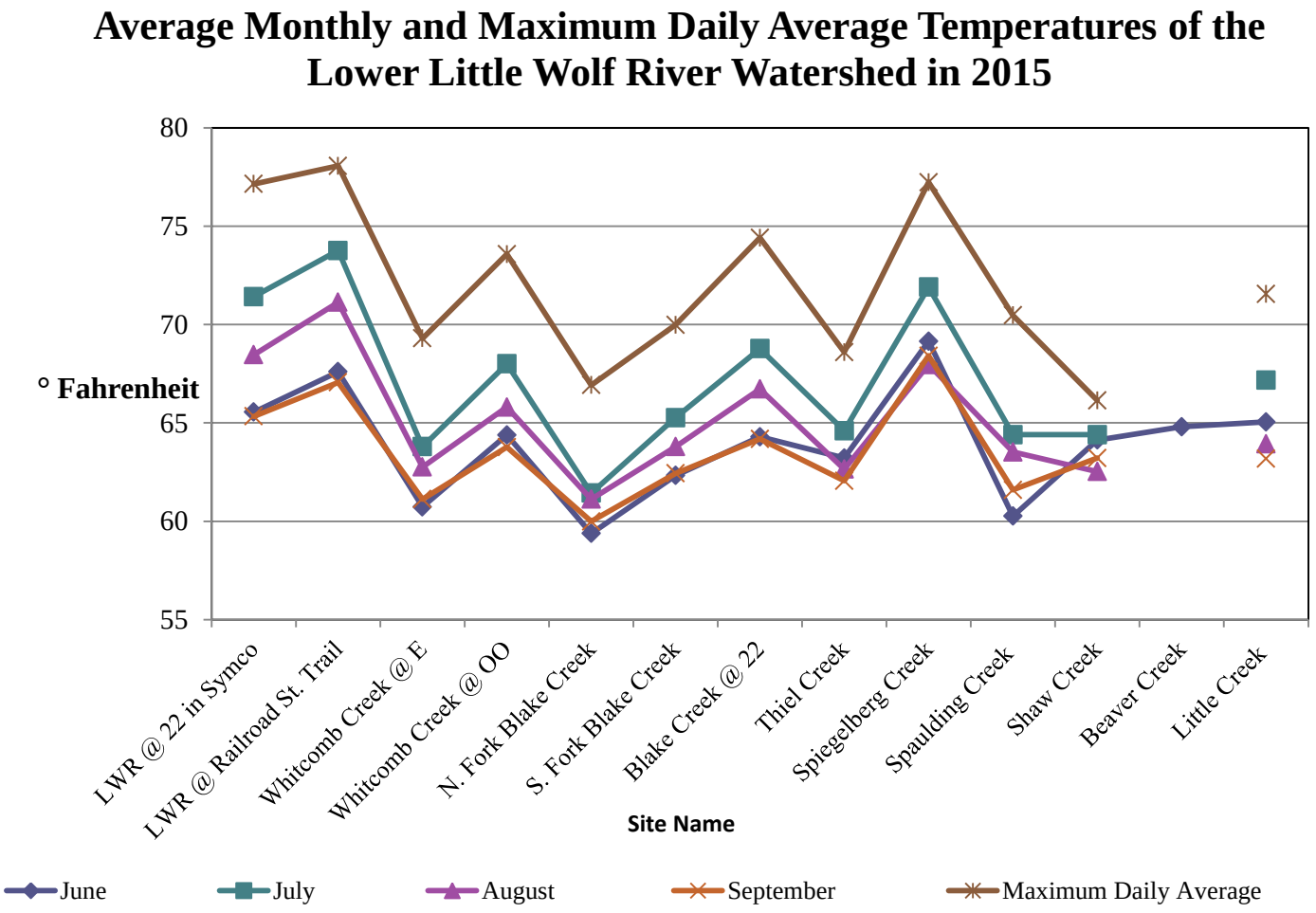
Study Results – Fish IBI



Study Results – Macroinvertebrates



Study Results – Temperature



Management Priorities

- Reduce phosphorus and sediment loads in the Little and Thiel Creeks
  - Identify target areas within Thiel and Little Creeks in need of best management practices
- Maintain water quality in the Lower Little Wolf River for fish habitat and aquatic life

Recommendations

- Little and Thiel Creeks should be listed on Wisconsin's 303(d) list of impaired waters for phosphorus
- Continue temperature, phosphorus, and sediment monitoring above and below Big Falls and Manawa
- Continue phosphorus and nitrate monitoring in streams of the Lower Little Wolf River
- Implement best management practices with Waupaca County LWCD and NRCS

Contacts

- For more information contact:
  - Dave Bolha, Eastern District, Wisconsin DNR
  - (920) 424-7892
- Link to the TWA WQM Plans website
- Report Link