Curry Creek Condition Report for 2022

CAUTION

Chl-a N P DO

3 out of 4 indicators were rated as **PASS**.

All four indicators must pass for the creek to be rated as **PASS**.

Size: 6,399 acres
Location: Central Sarasota County
Discharges into: Roberts Bay (Venice)

For more information, please see: **Curry Creek Basin Master Plan Update, Venice County Model (2001)**

View county-wide water quality trends »

Curry Creek

Water Chemistry Ratings | Freshwater Portion of the Creek

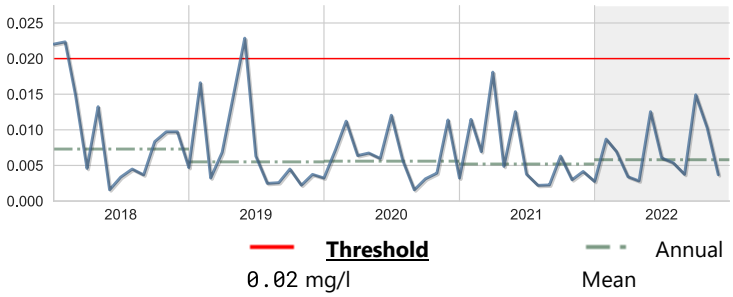
Creek Conditions Ratings are based on comparing nitrogen, phosphorus, chlorophyll and dissolved oxygen to water quality guidelines or regulations. Florida law defines a maximum allowable concentration of nitrogen, phosphorus, and chlorophyll *a*, and a minimum allowable concentration of dissolved oxygen in these streams.

Chlorophyll a

Score: Pass

Units: mg/l	Year 2022	Historical period of record
High	0.0275	0.132
Mean	0.0058	0.007
Low	0.0024	0.0003
No. of Samples	24	621

Five-year Rolling Average

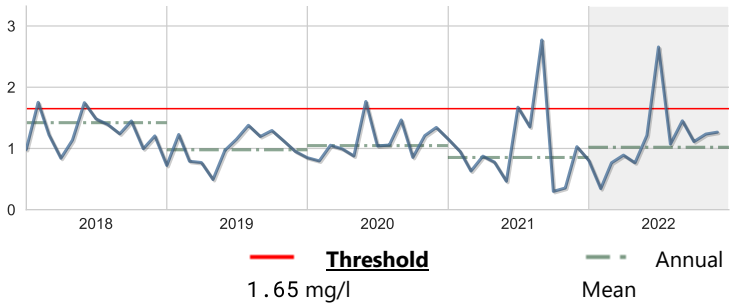


Nitrogen, Total

Score: Pass

Units: mg/l	Year 2022	Historical period of record
High	3.155	3.155
Mean	1.0195	1.0895
Low	0.133	0.117
No. of Samples	24	492

Five-year Rolling Average

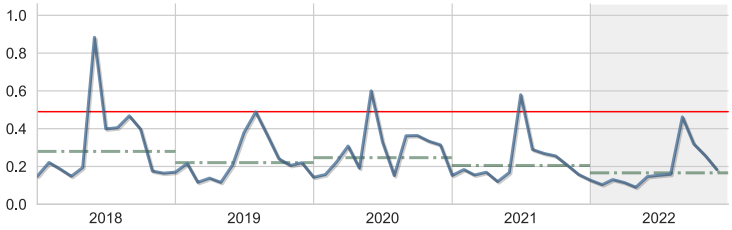


Phosphorus, Total

Score: Pass

Units: mg/l	Year 2022	Historical period of record
High	0.465	0.885
Mean	0.1661	0.2426
Low	0.071	0.043
No. of Samples	24	563

Five-year Rolling Average



Threshold 0.49 mg/l

Annual Mean

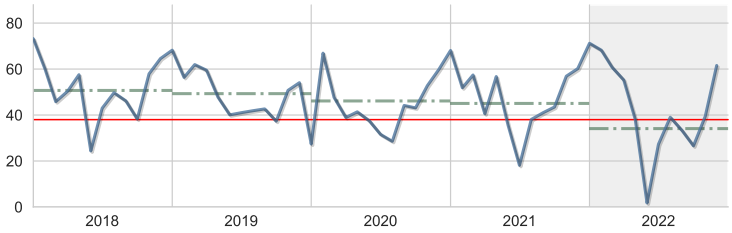
Dissolved Oxygen Saturation

Note: Low DO saturation also may be naturally influenced by inflows from nearby wetlands or groundwater sources.

Score: Caution

Units: percent (%)	Year 2022	Historical period of record
High	84.7987	166.80
Mean	34.1	51.95
Low	1.3632	1.3632
No. of Samples	24	633

Five-year Rolling Average

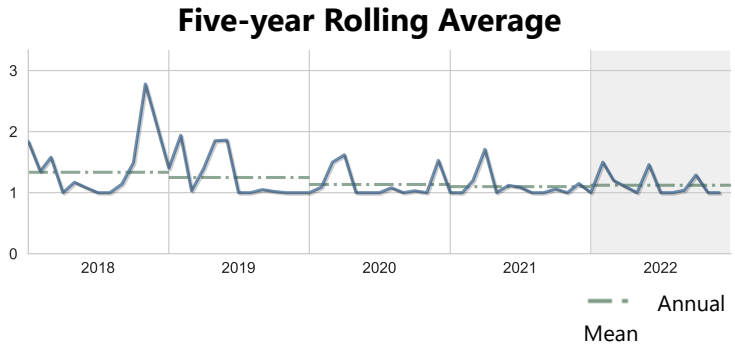


Threshold 38.00 percent (%)

Annual Mean

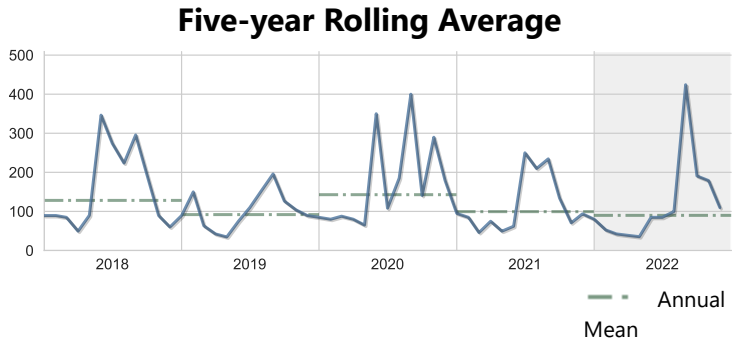
BOD, Biochemical oxygen demand

Units: mg/l	Year 2022	Historical period of record
High	2.21	6.58
Mean	1.12	1.33
Low	1.00	0.50
No. of Samples	22	479



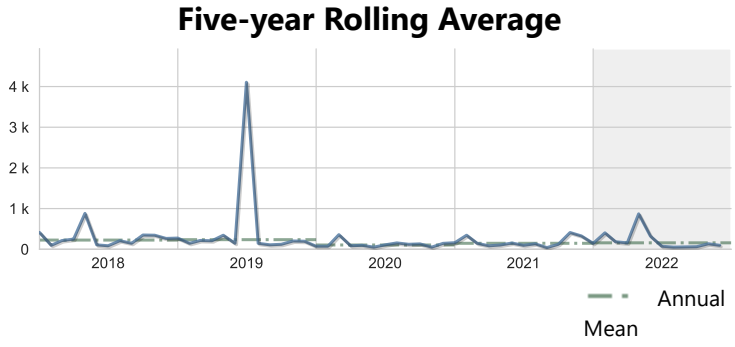
Color

Units: PCU	Year 2022	Historical period of record
High	450.00	450.00
Mean	89.89	109.28
Low	25.00	5.00
No. of Samples	24	674



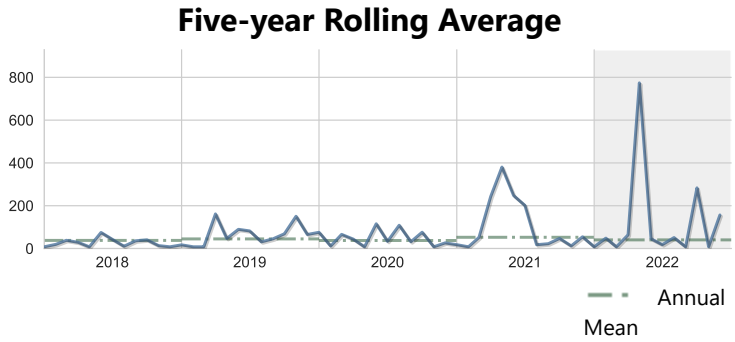
Escherichia coli

Units: cfu/100ml	Year 2022	Historical period of record
High	871.00	4106.00
Mean	157.79	160.46
Low	52.00	10.00
No. of Samples	11	126



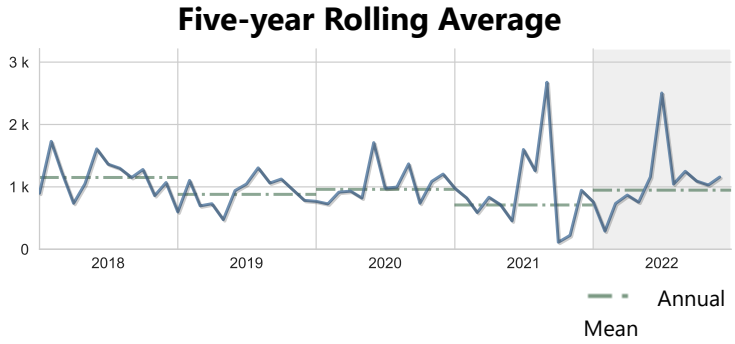
Nitrogen, Ammonia + Ammonium as N

Units: ug/l	Year 2022	Historical period of record
High	856.00	25570.00
Mean	40.32	21.74
Low	8.00	0.00
No. of Samples	24	636



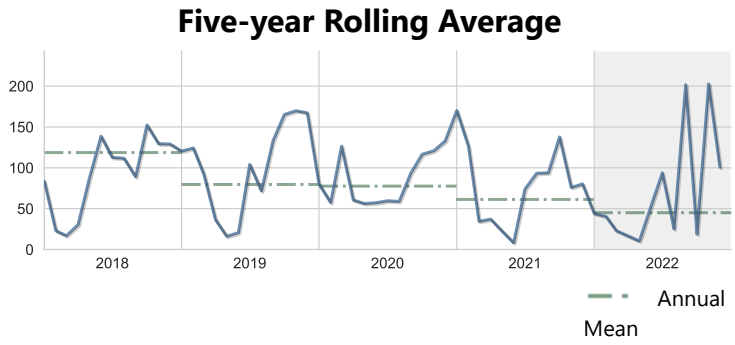
Nitrogen, Kjeldahl

Units: ug/l	Year 2022	Historical period of record
High	2840.00	26190.00
Mean	947.44	1037.76
Low	100.00	50.00
No. of Samples	24	603



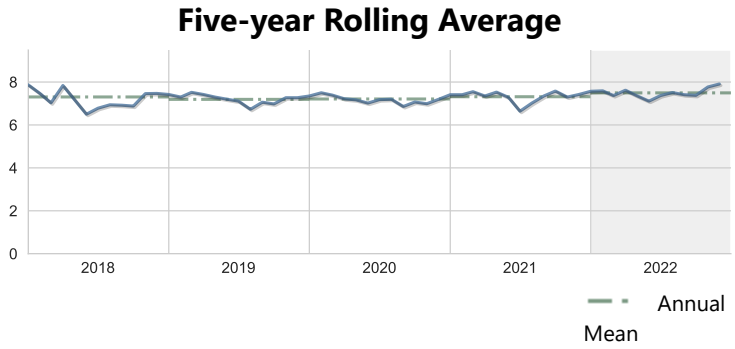
Nitrogen, Nitrite + Nitrate as N

Units: ug/l	Year 2022	Historical period of record
High	315.00	790.00
Mean	45.05	60.33
Low	6.00	0.00
No. of Samples	24	568



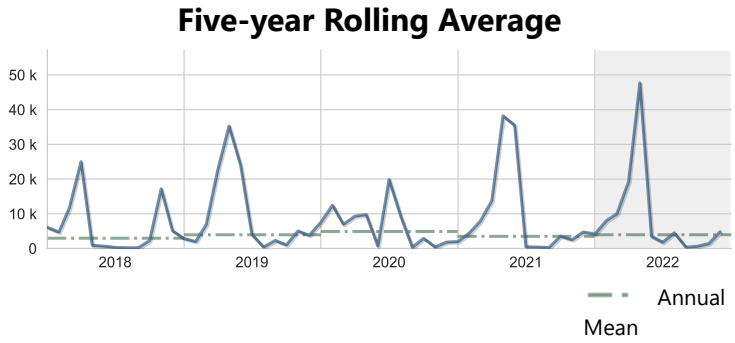
pH

Units: None	Year 2022	Historical period of record
High	8.88	8.90
Mean	7.49	7.56
Low	7.04	5.52
No. of Samples	24	4,351



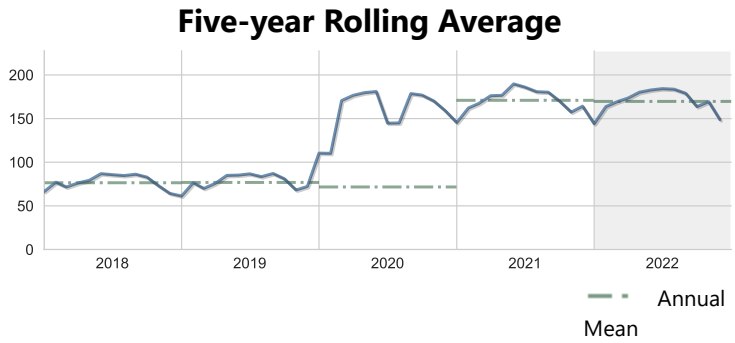
Specific conductance

Units: umho	Year 2022	Historical period of record
High	52838.20	61277.60
Mean	3965.85	15614.55
Low	345.958	0.286
No. of Samples	24	4,322



Temperature, water

Units: deg F	Year 2022	Historical period of record
High	188.2259	191.9267
Mean	169.67	75.25
Low	142.9586	47.858
No. of Samples	24	4,238



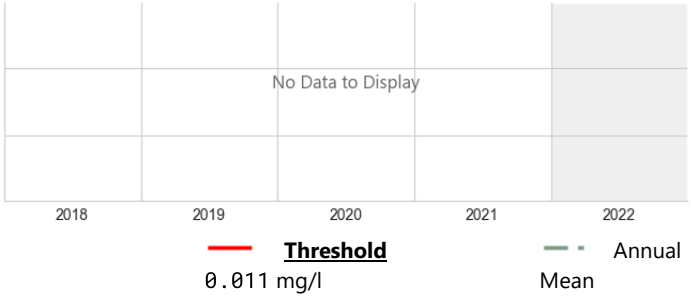
Water Chemistry Ratings | Tidal Portion of the Creek

Creek Conditions Ratings are based on comparing nitrogen, phosphorus, chlorophyll and dissolved oxygen to water quality guidelines or regulations. Florida law defines a maximum allowable concentration of chlorophyll *a* and a minimum allowable concentration of dissolved oxygen in these streams. Florida has no regulatory thresholds for nitrogen or phosphorus in tidal creeks so trends are used to rate the creeks.

Chlorophyll a

Units: mg/l	Year 2022	Historical period of record
High		
Mean		
Low		
No. of Samples		

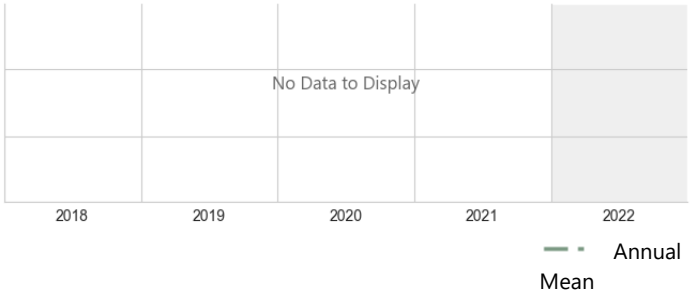
Five-year Rolling Average



Nitrogen, Total

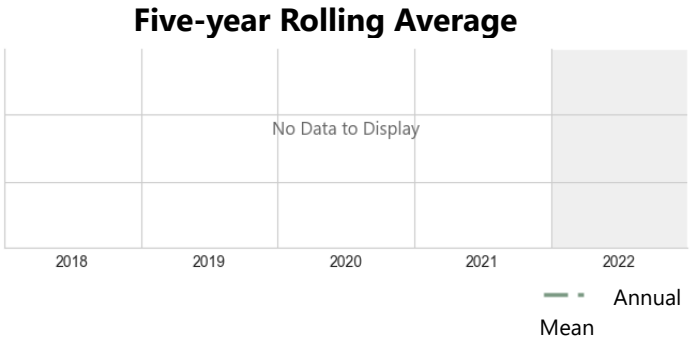
Units: mg/l	Year 2022	Historical period of record
High		
Mean		
Low		
No. of Samples		

Five-year Rolling Average



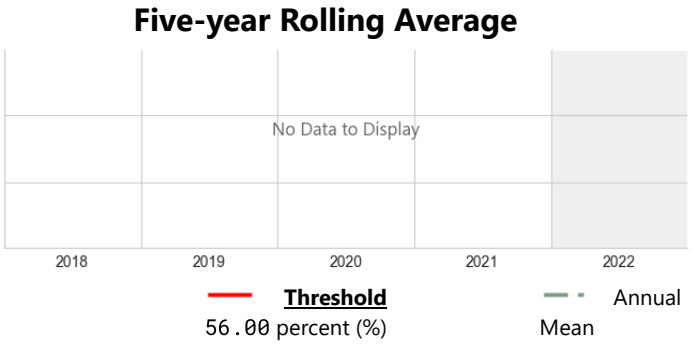
Phosphorus, Total

Units: mg/l	Year 2022	Historical period of record
High		
Mean		
Low		
No. of Samples		



Dissolved Oxygen Saturation

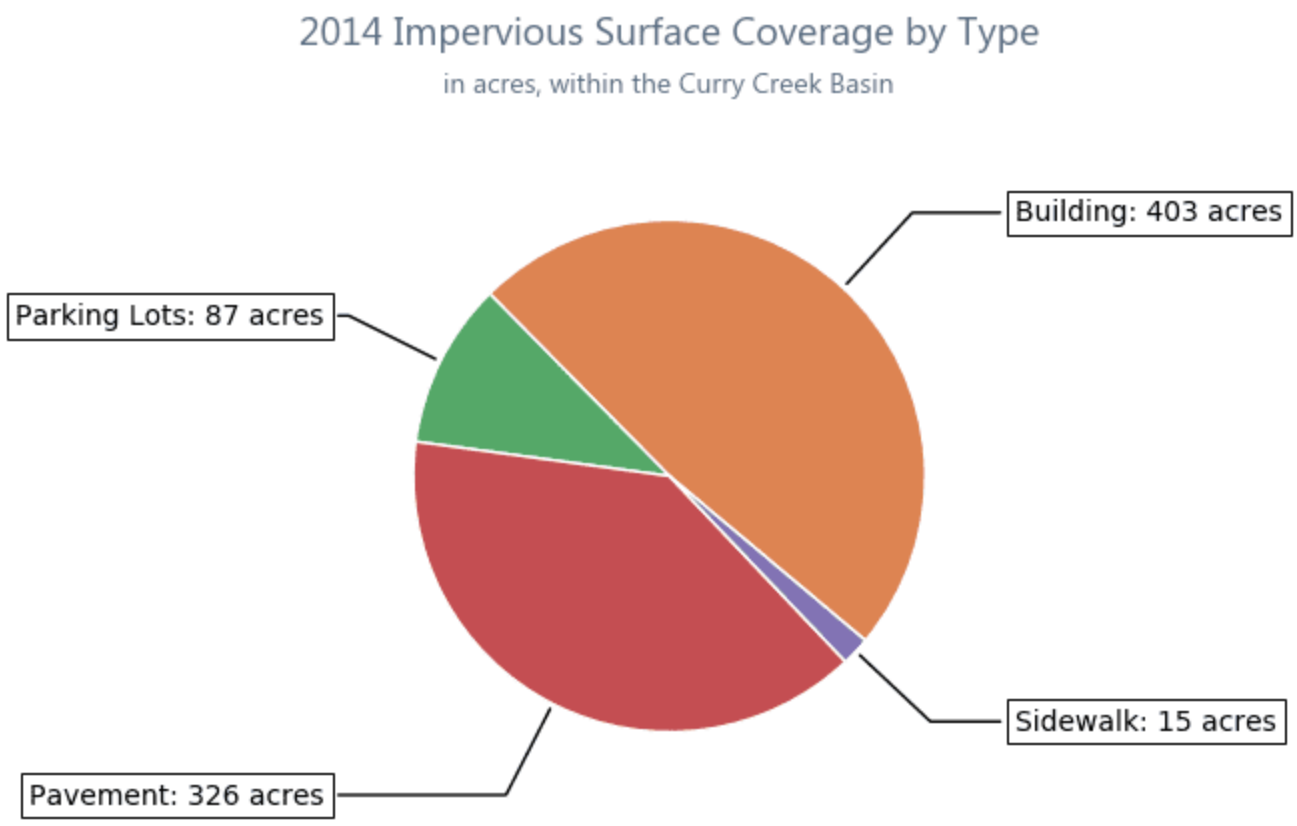
Units: percent (%)	Year 2022	Historical period of record
High		
Mean		
Low		
No. of Samples		



Impervious Features

Rain that falls on land that is in a natural state is absorbed and filtered by soils and vegetation as it makes it way into underground aquifers. However, in developed areas, "impervious surfaces" impede this process and contribute to polluted urban runoff entering surface waters. These surfaces include human infrastructure like roads, sidewalks, driveways and parking lots that are covered by impenetrable materials such as asphalt, concrete, brick and stone, as well as buildings and other permanent structures. Soils that have been disturbed and compacted by urban development are often impervious as well.

13% of the land area within the **Curry Creek Basin** is covered by impervious surfaces

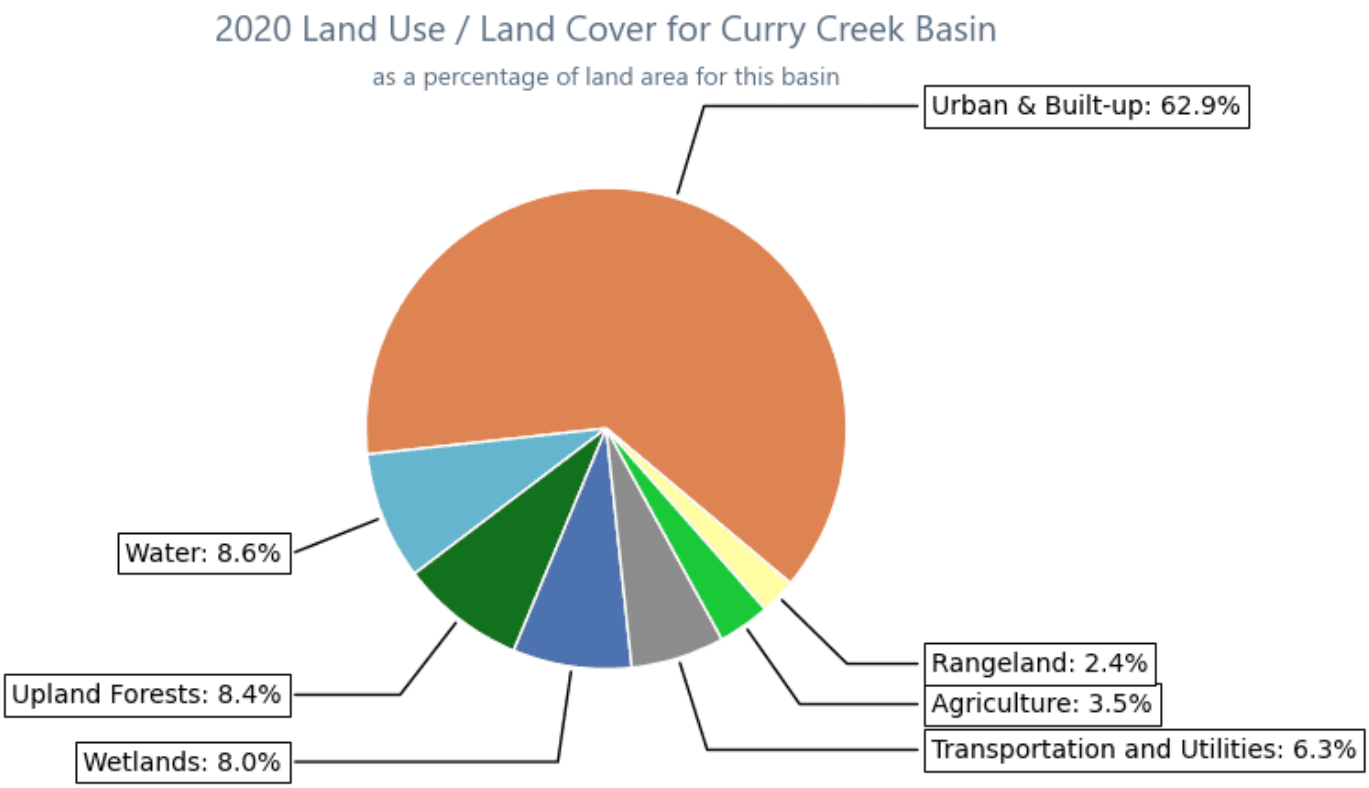


Land Use / Land Cover

Land use within a creek's watershed has a major effect on its water quality. In general, less development means better water quality. Land Cover/Land Use classifications categorize land in terms of its observed physical surface characteristics (e.g. upland or wetland), and also reflect the types of activity that are taking place on it (agriculture, urban/built-up, utilities, etc.). Florida uses as its standard a set of statewide classifications which were developed by the Florida Department of Transportation.

Acreage and Percentage within each Land Use / Land Cover Category for Curry Creek Basin

Land Use Classification	1990	1995	1999	2005	2011	2014	2017	2020	Trend
Urban & Built-up	2,089 **32.7%**	2,331 **36.4%**	2,915 **45.6%**	3,504 **54.8%**	3,621 **56.6%**	3,519 **55%**	3,825 **59.8%**	4,025 **62.9%**	
Agriculture	1,532 **23.9%**	1,374 **21.5%**	1,201 **18.8%**	736 **11.5%**	385 **6%**	369 **5.8%**	270 **4.2%**	225 **3.5%**	
Rangeland	174 **2.7%**	212 **3.3%**	188 **2.9%**	75 **1.2%**	317 **5%**	322 **5%**	214 **3.3%**	153 **2.4%**	
Upland Forests	1,452 **22.7%**	1,229 **19.2%**	826 **12.9%**	767 **12%**	707 **11.1%**	813 **12.7%**	701 **11%**	535 **8.4%**	
Water	350 **5.5%**	438 **6.8%**	482 **7.5%**	493 **7.7%**	492 **7.7%**	492 **7.7%**	508 **7.9%**	549 **8.6%**	
Wetlands	526 **8.2%**	463 **7.2%**	461 **7.2%**	483 **7.6%**	522 **8.2%**	522 **8.2%**	519 **8.1%**	510 **8%**	
Barren Land	8 **0.1%**	21 **0.3%**	0 **0%**	0 **0%**	0 **0%**	0 **0%**	0 **0%**	0 **0%**	
Transportation and Utilities	266 **4.2%**	330 **5.2%**	326 **5.1%**	341 **5.3%**	354 **5.5%**	362 **5.7%**	360 **5.6%**	402 **6.3%**	


2020 Land Use / Land Cover for Curry Creek Basin
as a percentage of land area for this basin
Urban & Built-up: 62.9%
Water: 8.6%
Upland Forests: 8.4%
Wetlands: 8.0%
Rangeland: 2.4%
Agriculture: 3.5%
Transportation and Utilities: 6.3%