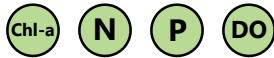


## Curry Creek Condition Report for 2015



# PASS



4 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)

Major residential communities within the Curry Creek Basin include Bird Bay Golf Club, Pinebrook South, Waterford, Capri Isles, Sawgrass, Hidden Lakes, and the northern portion of Bay Indies Mobile Home Park (MHP). Rural lands encompass the extreme northeast and easterly portions of the basin. Drainage from this basin is served by three main collection and conveyance systems. Curry Creek Main accommodates the western region of the basin beginning one-half mile west of Auburn Road continuing west to the ultimate outfall into Roberts Bay. Upper Curry Creek Main (North Blackburn Canal) drains the northeast region of the basin from Jackson Road west to the confluence at Curry Creek. The remaining southeast region of the basin drains through the South Blackburn Canal Lateral from Havana Road west to the confluence at Curry Creek. *For basin details see: **Curry Creek Basin Master Plan Update, Venice County Model (2001)***

### 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.

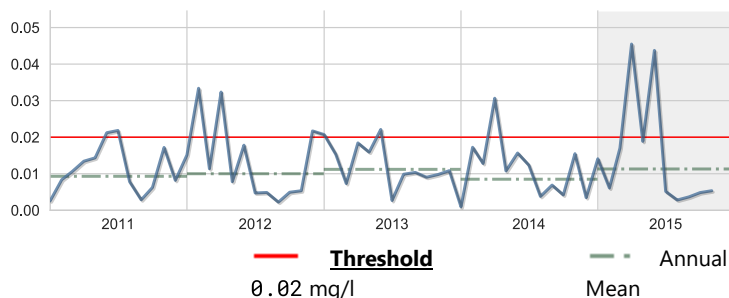


### Chlorophyll a

Score: Pass

Units: mg/l	Year 2015	Historical period of record
<b>High</b>	0.0532	0.0709
<b>Mean</b>	0.0113	0.009
<b>Low</b>	0.0026	0.0003
<b>No. of Samples</b>	49	566

#### Five-year Rolling Average

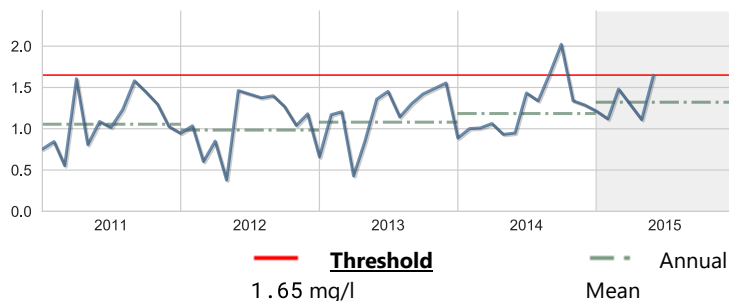


### Nitrogen, Total

Score: Pass

Units: mg/l	Year 2015	Historical period of record
<b>High</b>	1.722	2.697
<b>Mean</b>	1.3215	1.0891
<b>Low</b>	1.111	0.221
<b>No. of Samples</b>	9	307

#### Five-year Rolling Average



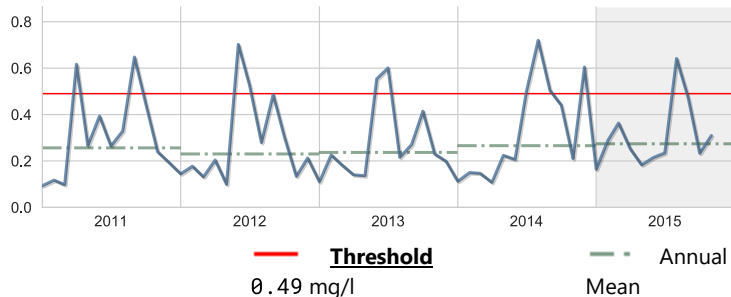


## Phosphorus, Total

Score: Pass

Units: mg/l	Year 2015	Historical period of record
<b>High</b>	0.646	0.833
<b>Mean</b>	0.274	0.2468
<b>Low</b>	0.124	0.043
<b>No. of Samples</b>	49	597

### Five-year Rolling Average



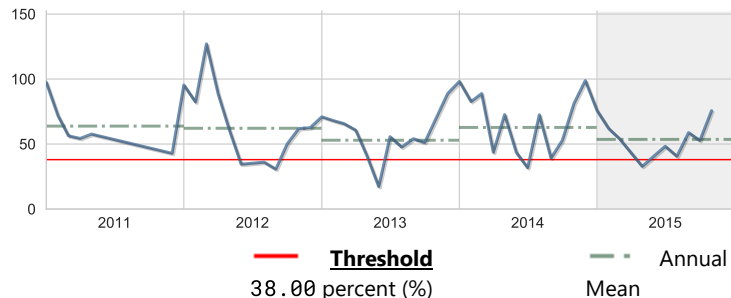
## Dissolved Oxygen Saturation

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

Score: Pass

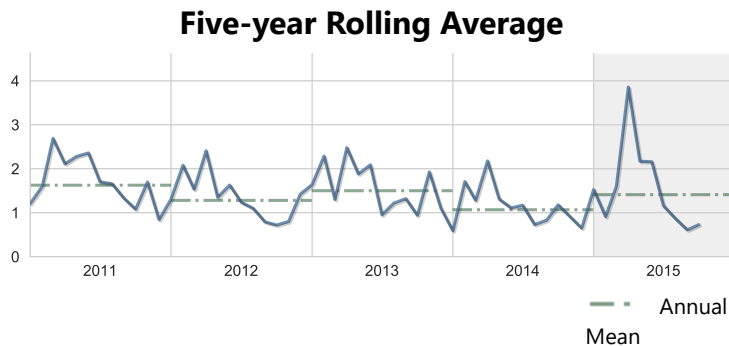
Units: percent (%)	Year 2015	Historical period of record
<b>High</b>	98.20	166.80
<b>Mean</b>	53.58	58.58
<b>Low</b>	32.40	1.70
<b>No. of Samples</b>	37	698

### Five-year Rolling Average



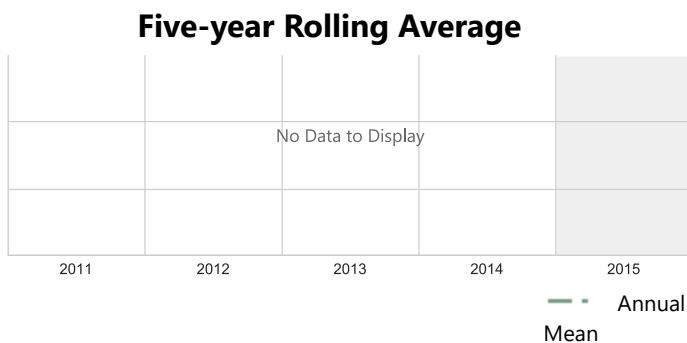
## BOD, Biochemical oxygen demand

Units: mg/l	Year 2015	Historical period of record
<b>High</b>	4.13	6.58
<b>Mean</b>	1.41	1.38
<b>Low</b>	0.534	0.50
<b>No. of Samples</b>	47	540



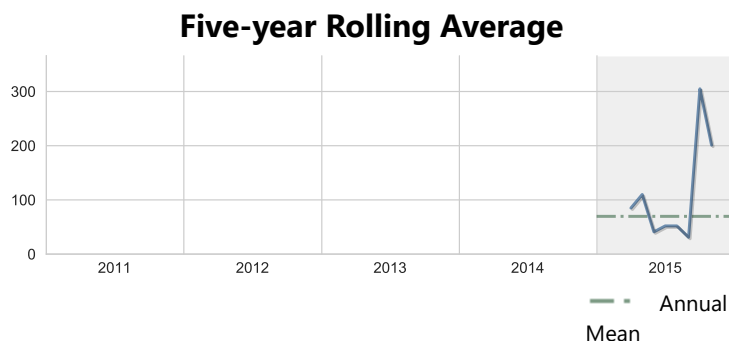
## Color

Units: PCU	Year 2015	Historical period of record
<b>High</b>		350.00
<b>Mean</b>		95.43
<b>Low</b>		20.00
<b>No. of Samples</b>	0	117



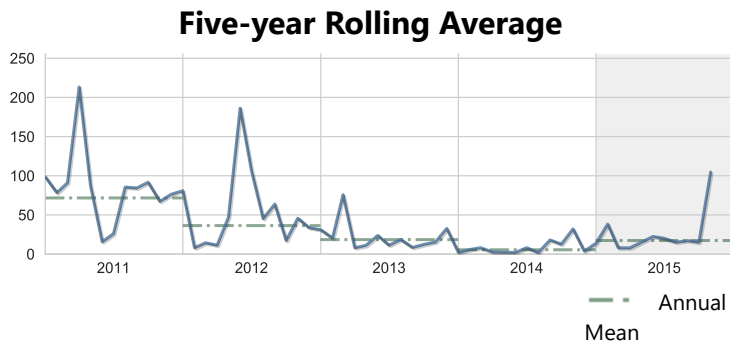
## Escherichia coli

Units: cfu/100ml	Year 2015	Historical period of record
<b>High</b>	305.00	305.00
<b>Mean</b>	69.66	69.66
<b>Low</b>	31.00	31.00
<b>No. of Samples</b>	14	14



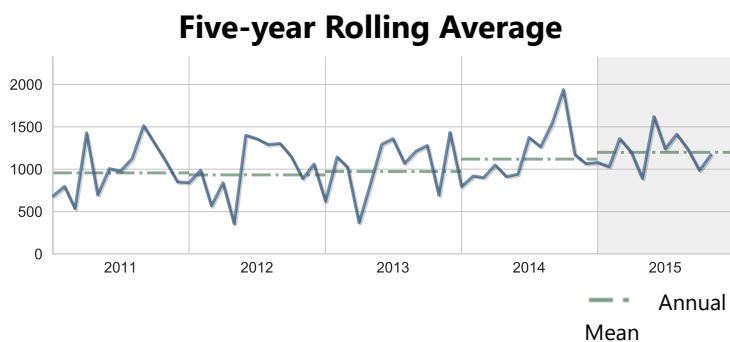
## Nitrogen, Ammonia + Ammonium as N

Units: ug/l	Year 2015	Historical period of record
<b>High</b>	113.00	25570.00
<b>Mean</b>	17.32	23.36
<b>Low</b>	8.00	0.00
<b>No. of Samples</b>	49	666



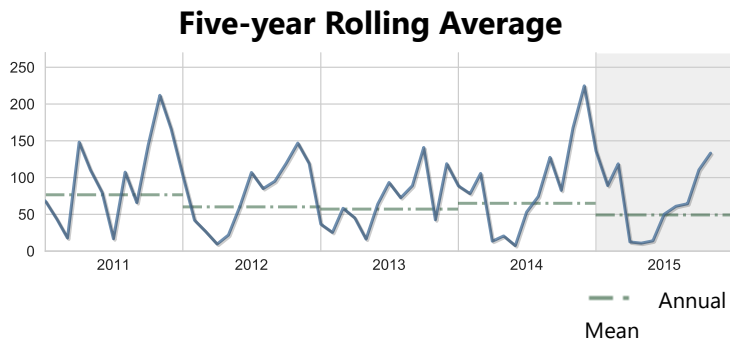
## Nitrogen, Kjeldahl

Units: ug/l	Year 2015	Historical period of record
<b>High</b>	1720.00	26190.00
<b>Mean</b>	1199.36	1036.27
<b>Low</b>	657.00	188.00
<b>No. of Samples</b>	49	637



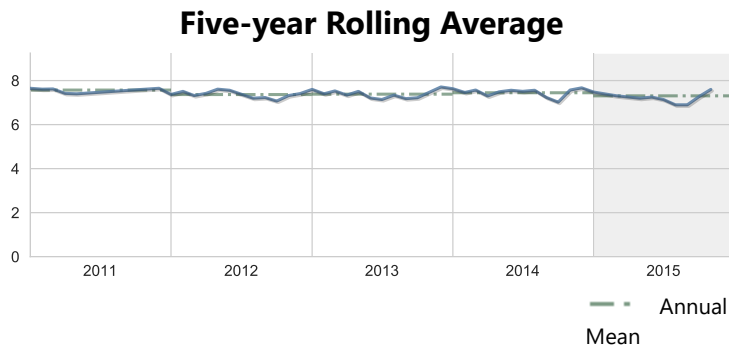
## Nitrogen, Nitrite + Nitrate as N

Units: ug/l	Year 2015	Historical period of record
<b>High</b>	166.00	790.00
<b>Mean</b>	49.19	61.07
<b>Low</b>	4.00	0.00
<b>No. of Samples</b>	49	598



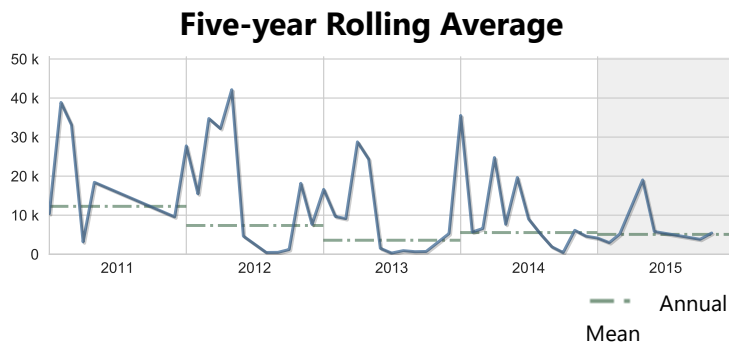
## pH

Units: None	Year 2015	Historical period of record
<b>High</b>	7.78	8.90
<b>Mean</b>	7.31	7.58
<b>Low</b>	6.86	5.52
<b>No. of Samples</b>	41	4,235



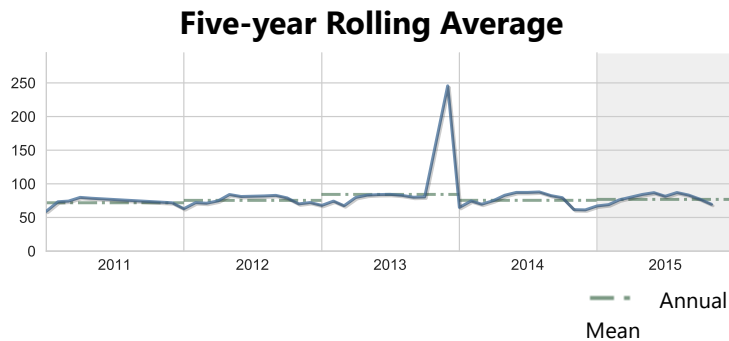
## Specific conductance

Units: umho	Year 2015	Historical period of record
<b>High</b>	39330.00	61277.60
<b>Mean</b>	5086.24	15926.83
<b>Low</b>	411.00	0.286
<b>No. of Samples</b>	31	4,290



## Temperature, water

Units: deg F	Year 2015	Historical period of record
<b>High</b>	87.908	3574.40
<b>Mean</b>	76.87	74.14
<b>Low</b>	65.03	47.858
<b>No. of Samples</b>	28	4,107

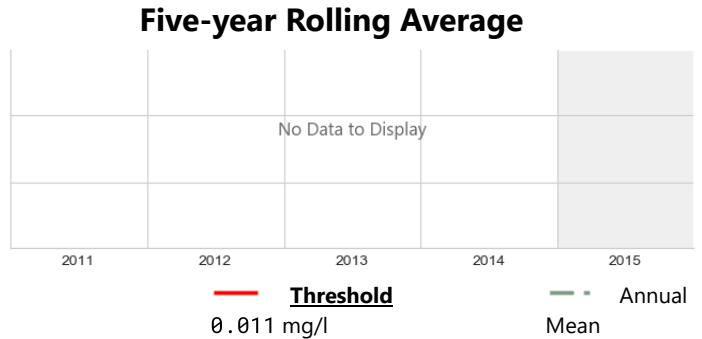


## Water Chemistry Ratings | Tidal Portion of the Creek

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.

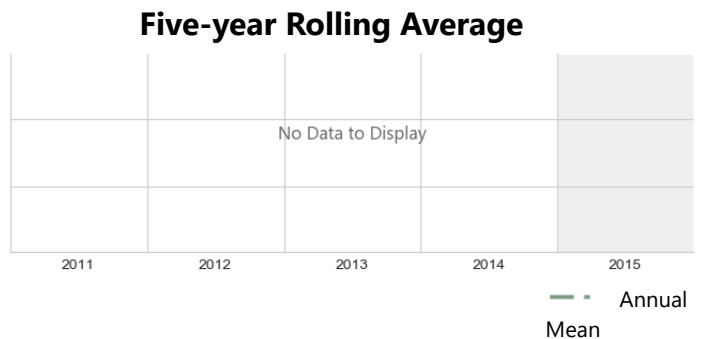
### Chlorophyll a

Units: mg/l	Year	Historical
	2015	period of record
<b>High</b>		
<b>Mean</b>		
<b>Low</b>		
<b>No. of Samples</b>		



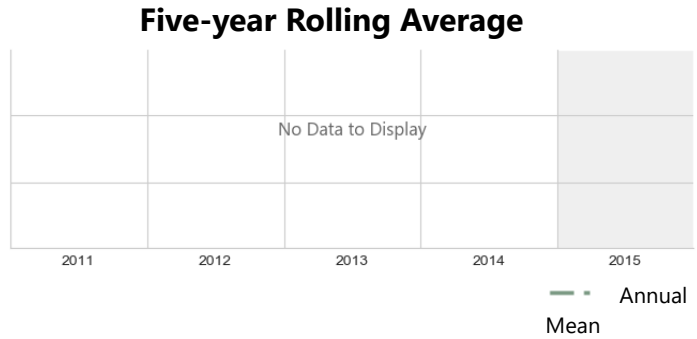
### Nitrogen, Total

Units: mg/l	Year	Historical
	2015	period of record
<b>High</b>		
<b>Mean</b>		
<b>Low</b>		
<b>No. of Samples</b>		



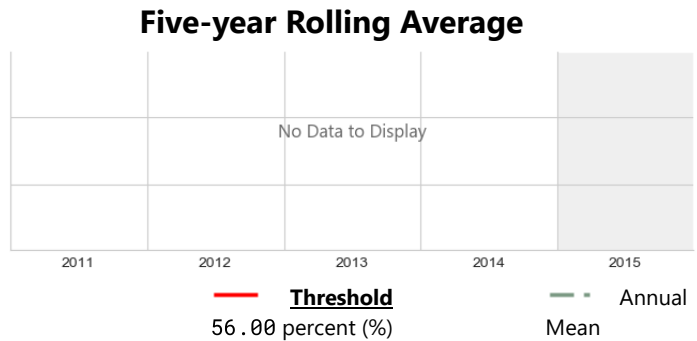
## Phosphorus, Total

Units: mg/l	Year	Historical
	2015	period of record
<b>High</b>		
<b>Mean</b>		
<b>Low</b>		
<b>No. of Samples</b>		



## Dissolved Oxygen Saturation

Units: percent (%)	Year	Historical
	2015	period of record
<b>High</b>		
<b>Mean</b>		
<b>Low</b>		
<b>No. of Samples</b>		



## Impervious Features

Rain that falls on land that is in a natural state is absorbed and filtered by soils and vegetation as it makes its 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.



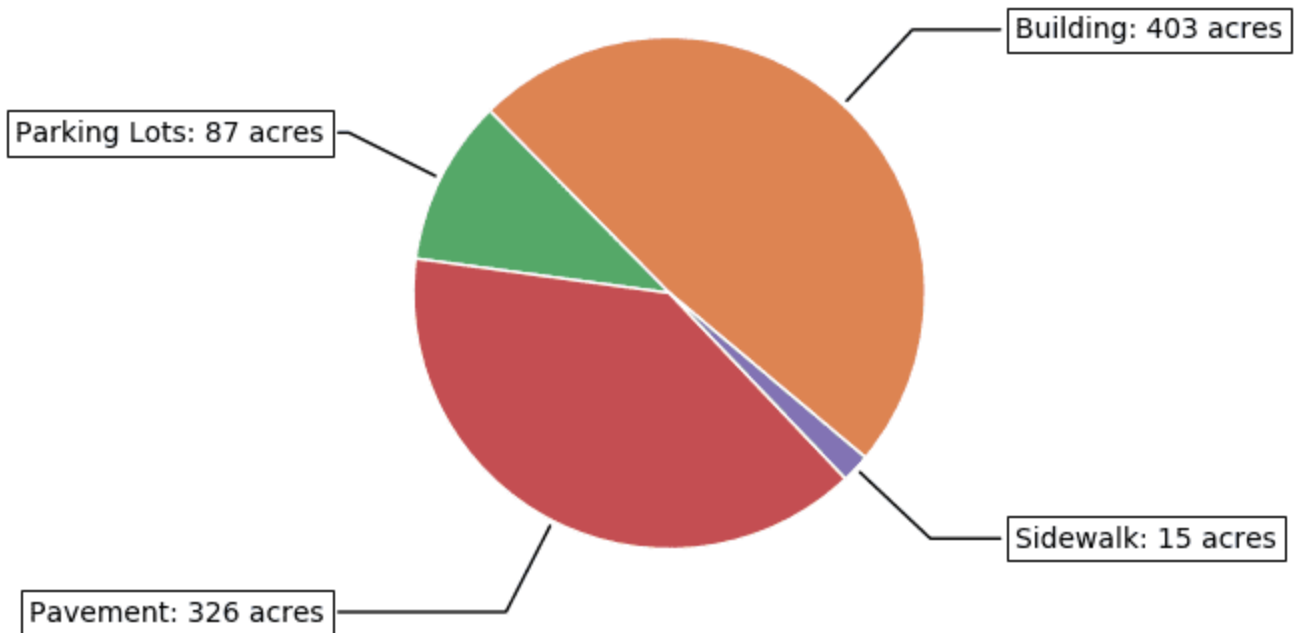
**13%** of the land area within the **Curry Creek Basin** is covered by impervious

surfaces



## 2014 Impervious Surface Coverage by Type

in acres, within the Curry Creek Basin











### 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**

2015 Creek Conditions Report for Curry Creek

Land Use Classification	1990	1995	1999	2005	2011	2014	2017	Trend
<b>Urban &amp; Built-up</b>	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%	
<b>Agriculture</b>	1,532 23.9%	1,374 21.5%	1,201 18.8%	736 11.5%	385 6%	369 5.8%	270 4.2%	
<b>Rangeland</b>	174 2.7%	212 3.3%	188 2.9%	75 1.2%	317 5%	322 5%	214 3.3%	
<b>Upland Forests</b>	1,452 22.7%	1,229 19.2%	826 12.9%	767 12%	707 11.1%	813 12.7%	701 11%	
<b>Water</b>	350 5.5%	438 6.8%	482 7.5%	493 7.7%	492 7.7%	492 7.7%	508 7.9%	
<b>Wetlands</b>	526 8.2%	463 7.2%	461 7.2%	483 7.6%	522 8.2%	522 8.2%	519 8.1%	
<b>Barren Land</b>	8 0.1%	21 0.3%	0 0%	0 0%	0 0%	0 0%	0 0%	
<b>Transportation and Utilities</b>	266 4.2%	330 5.2%	326 5.1%	341 5.3%	354 5.5%	362 5.7%	360 5.6%	

### 2017 Land Use / Land Cover for Curry Creek Basin

as a percentage of land area for this basin

