



Brazos River Authority

Land Use Study

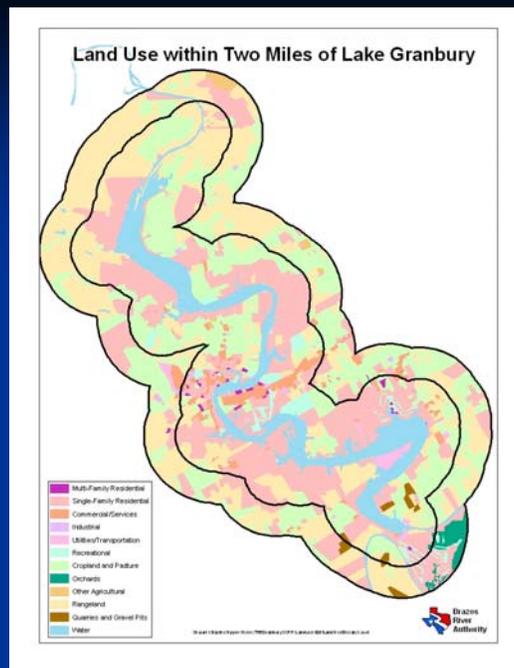
Presented by Tiffany Morgan

Land Use Study

- Assessed 2-mile buffer around lake
- Aerial photography from NCTCOG using 2003 photography
 - NCTCOG did not fly in 2005
 - Natural color
 - 1-foot resolution
 - NCTCOG fly again in 2007 – will update map
- USGS Digital Orthoquads
 - Flown in 2005
 - Resolution 2-meters
 - Color infrared for biological analysis
- Assistance from Lee Overstreet
- Ground truthing

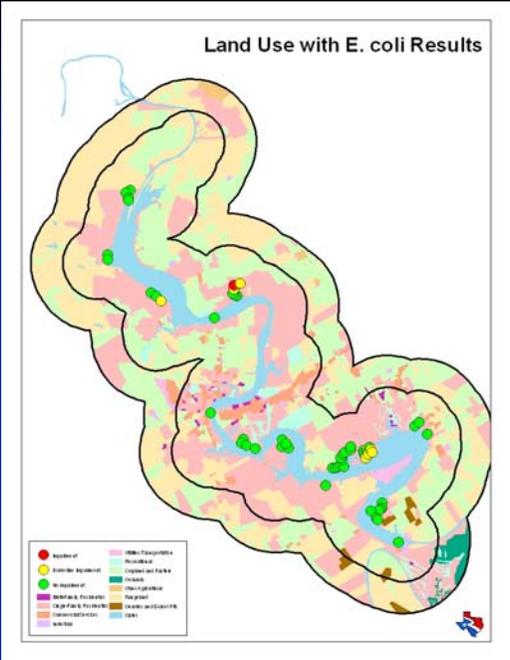
Categories

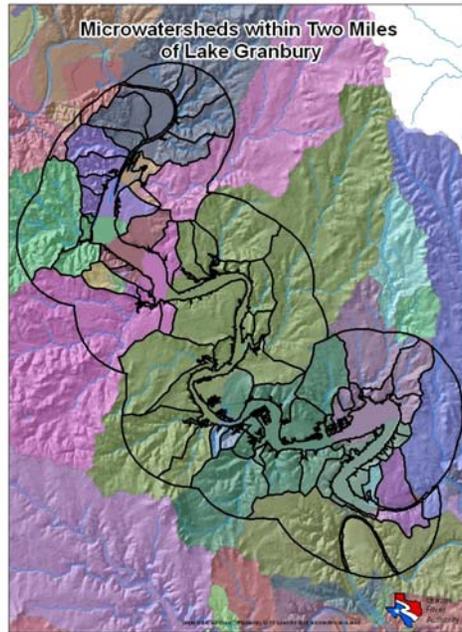
Category	Example
Multi-Family Residential	Apartments, Condominiums
Single-Family Residential	
Commercial/Services	Service Businesses, Schools, Churches
Industrial	Manufacturing, Junk Yards
Utilities/Transportation	Electric Substations, water treatment plants
Recreational	Golf Courses, Marinas, Parks
Cropland and Pasture	Cultivated crops, idle cleared land
Orchards	Orchards, groves, vineyards
Other Agricultural	Horse farms,
Rangeland	Undeveloped land with native vegetation
Quarries and Gravel Pits	Mining activities
Water	Retention ponds, stock ponds



Land Use Statistics

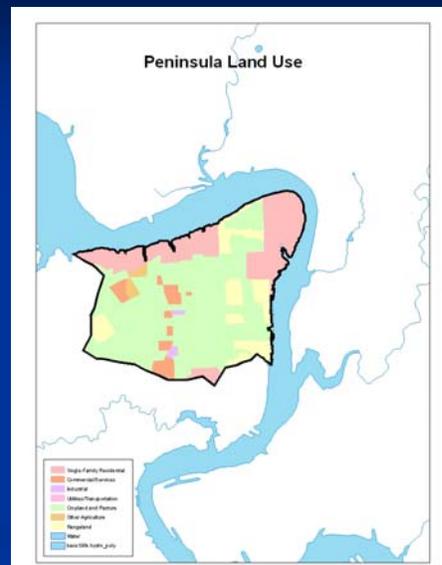
Land Use	0-1 Mile	1-2 Mile	Total
Multi-Family Residential	>1%	>1%	>1%
Single-Family Residential	40%	18%	30%
Commercial/Services	4%	2%	3%
Industrial	>1%	>1%	>1%
Utilities/Transportation	1%	>1%	>1%
Recreational	3%	>1%	2%
Cropland/Pasture	26%	31%	28%
Orchards	>1%	2%	>1%
Other Agriculture	>1%	>1%	>1%
Rangeland	23%	43%	32%
Quarries	>1%	>1%	>1%





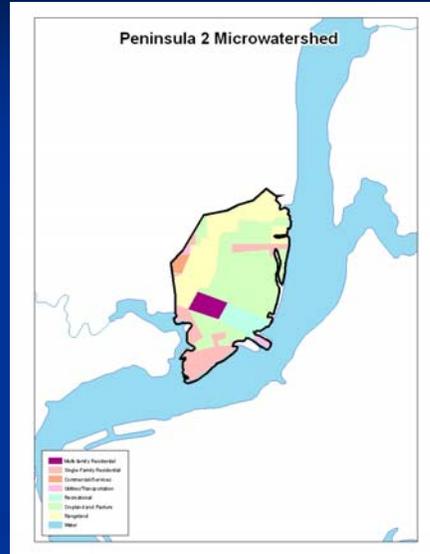
Peninsula Microwatershed

Land Use	Percent
Single-Family Residential	24%
Commercial/Services	4%
Industrial	>1%
Utilities/Transportation	>1%
Cropland and Pasture	57%
Other Agricultural	1%
Rangeland	11%
Water	>1%



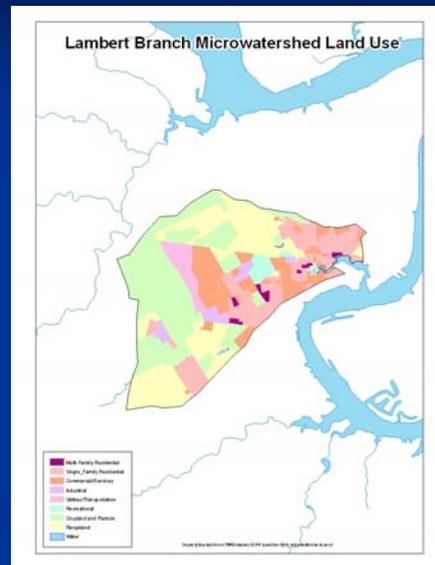
Peninsula 2 Microwatershed

Land Use	Percent
Multi-Family Residential	4%
Single-Family Residential	14%
Commercial/Services	2%
Utilities/Transportation	1%
Recreational	6%
Cropland and Pasture	44%
Rangeland	27%
Water	2%



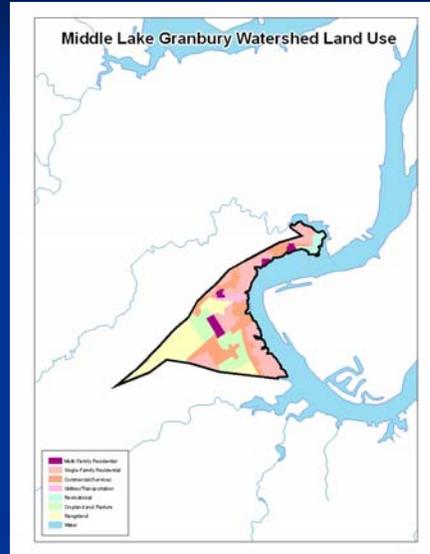
Lambert Branch Microwatershed

Land Use	Percent
Multi-Family Residential	1%
Single-Family Residential	17%
Commercial/Services	13%
Industrial	3%
Utilities/Transportation	4%
Recreational	2%
Cropland and Pasture	32%
Rangeland	27%
Water	>1%



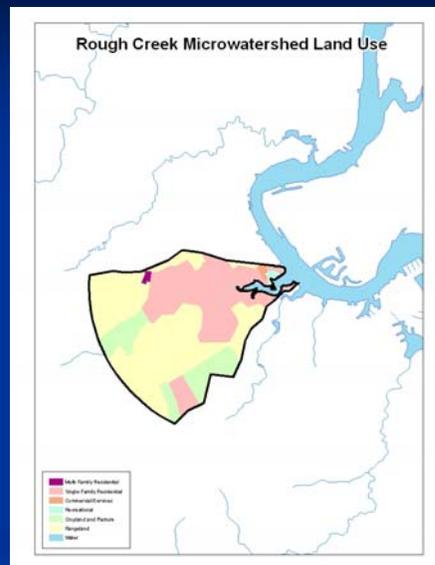
Middle Lake Granbury Microwatershed

Land Use	Percent
Multi-Family Residential	4%
Single-Family Residential	32%
Commercial/Services	22%
Utilities/Transportation	2%
Recreational	3%
Cropland and Pasture	13%
Rangeland	23%
Water	1%



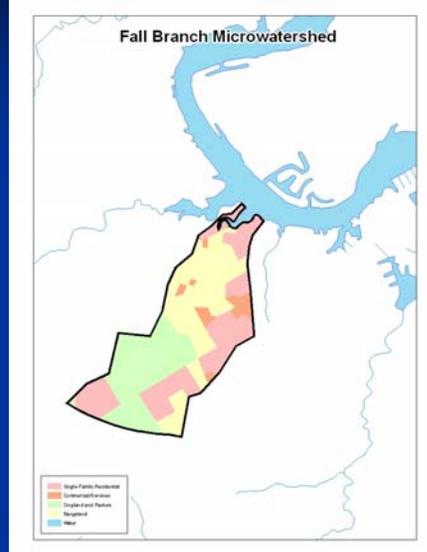
Rough Creek Microwatershed

Land Use	Percent
Multi-Family Residential	>1%
Single-Family Residential	33%
Commercial/Services	>1%
Recreational	>1%
Cropland and Pasture	14%
Rangeland	50%
Water	>1%



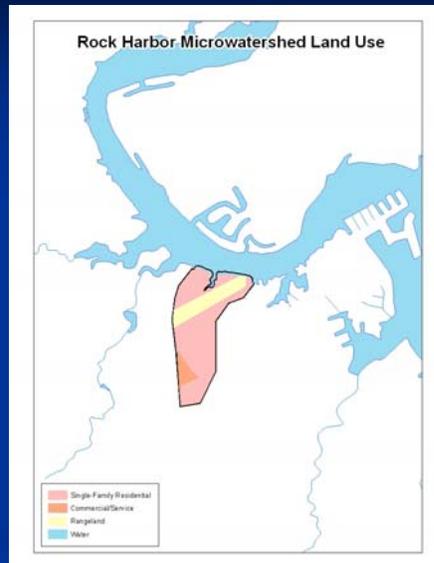
Fall Branch Microwatershed

Land Use	Percent
Single-Family Residential	32%
Commercial/Services	5%
Cropland and Pasture	30%
Rangeland	33%
Water	>1%



Rock Harbor Microwatershed

Land Use	Percent
Single-Family Residential	72%
Commercial/Services	6%
Rangeland	20%
Water	2%



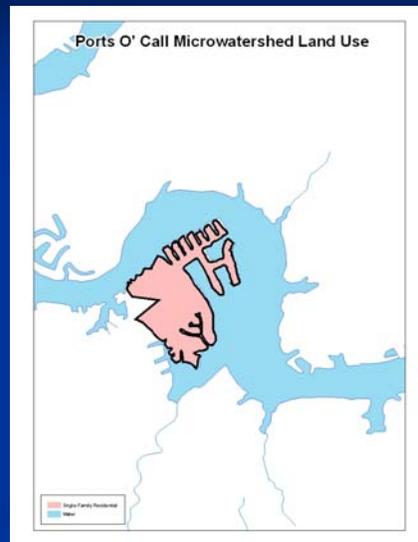
Comanche Harbor Microwatershed

Land Use	Percent
Single-Family Residential	97%
Commercial/Services	1%
Water	2%



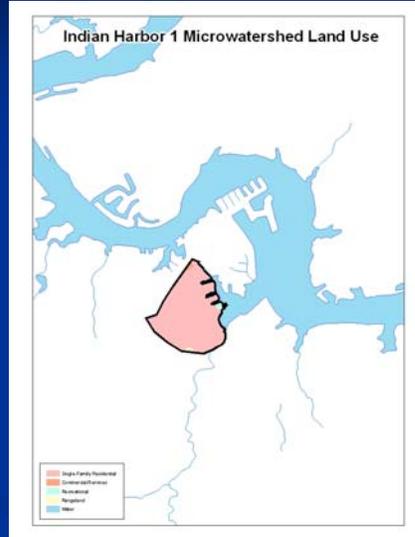
Ports O' Call Microwatershed

Land Use	Percent
Single-Family Residential	96%
Water	4%



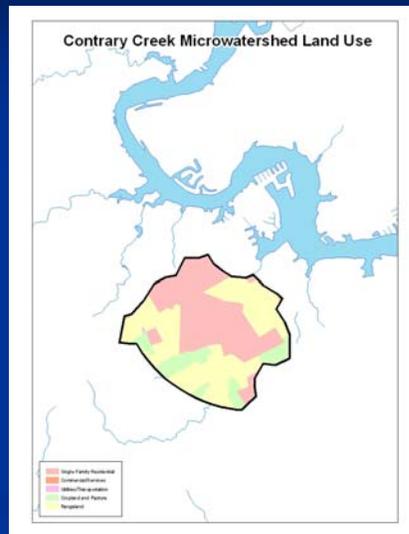
Indian Harbor 1 Microwatershed

Land Use	Percent
Single-Family Residential	96%
Commercial/Services	>1%
Recreational	>1%
Rangeland	>1%
Water	1%



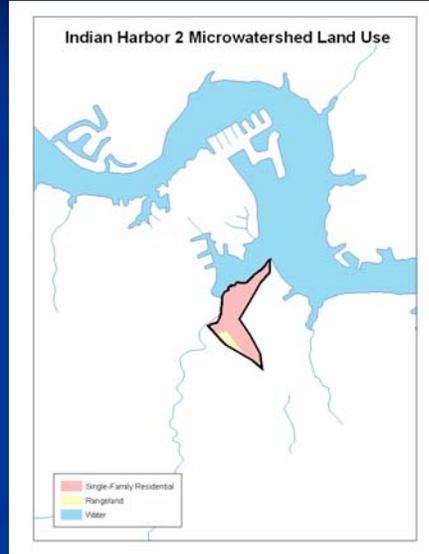
Contrary Creek Microwatershed

Land Use	Percent
Single-Family Residential	43%
Commercial/Services	>1%
Recreational	>1%
Cropland and Pasture	12%
Rangeland	44%



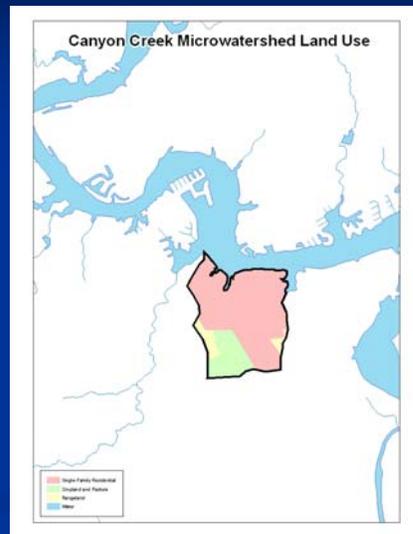
Indian Harbor 2 Microwatershed

Land Use	Percent
Single-Family Residential	90%
Rangeland	9%
Water	>1%



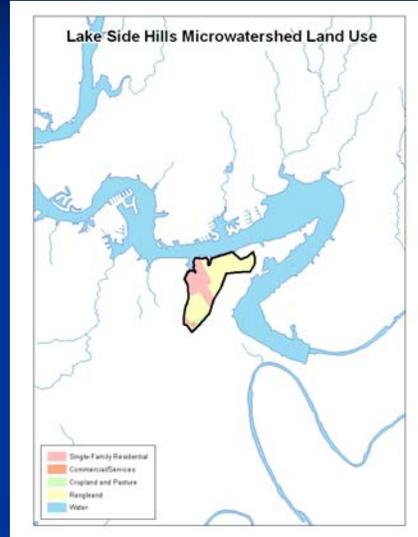
Canyon Creek Microwatershed

Land Use	Percent
Single-Family Residential	76%
Cropland and Pasture	17%
Rangeland	6%
Water	1%



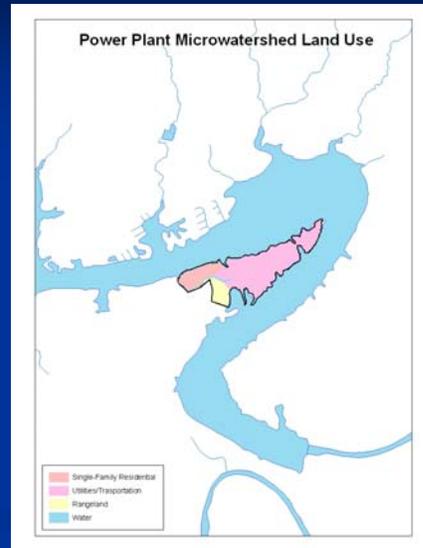
Lake Side Hills Microwatershed

Land Use	Percent
Single-Family Residential	31%
Commercial/Services	>1%
Cropland and Pasture	4%
Rangeland	63%
Water	>1%



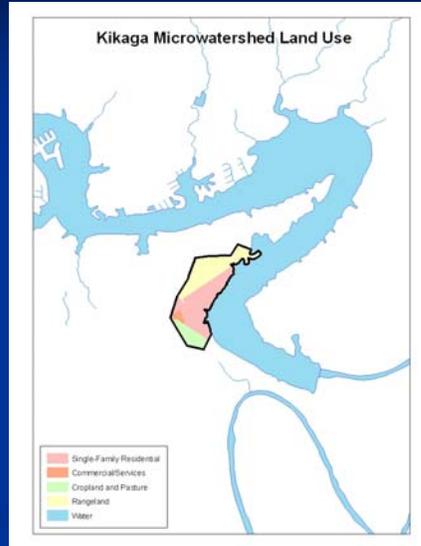
Power Plant Microwatershed

Land Use	Percent
Single-Family Residential	15%
Utilities/Transportation	70%
Rangeland	10%
Water	5%



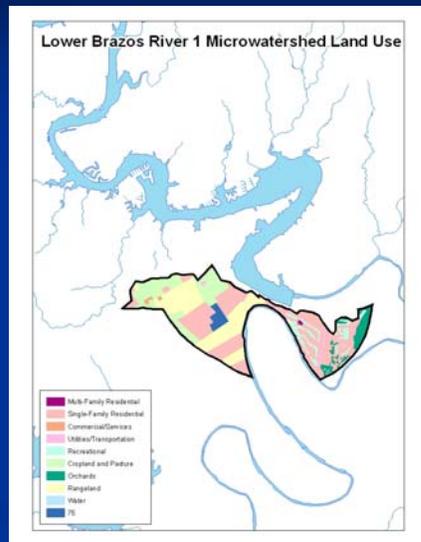
Kikaga Microwatershed

Land Use	Percent
Single-Family Residential	44%
Commercial/Services	3%
Cropland and Pasture	13%
Rangeland	38%
Water	1%



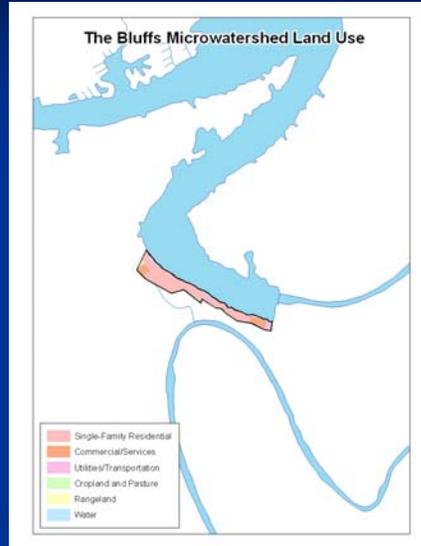
Lower Brazos River 1 Microwatershed

Land Use	Percent
Multi-Family Residential	>1%
Single-Family Residential	42%
Commercial/Services	>1%
Utilities/Transportation	1%
Recreational	5%
Cropland and Pasture	18%
Orchards	5%
Rangeland	24%
Water	>1%
Quarries	2%



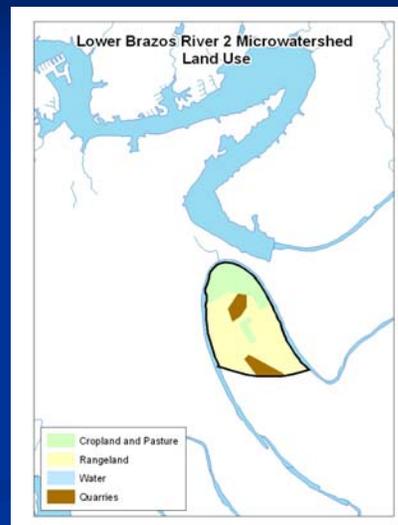
The Bluffs Microwatershed

Land Use	Percent
Single-Family Residential	78%
Commercial/Services	13%
Utilities/Transportation	3%
Cropland and Pasture	1%
Rangeland	>1%
Water	4%



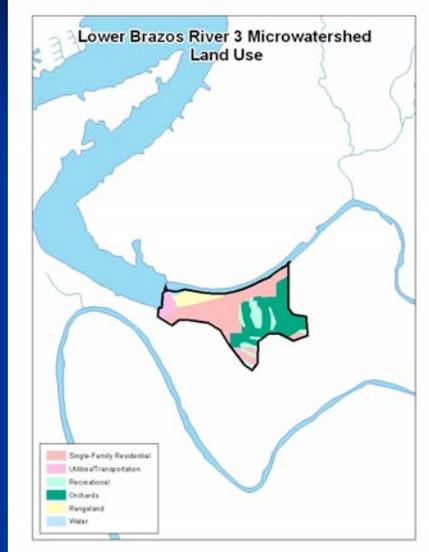
Lower Brazos River 2 Microwatershed

Land Use	Percent
Cropland and Pasture	24%
Rangeland	65%
Water	>1%
Quarries	10%



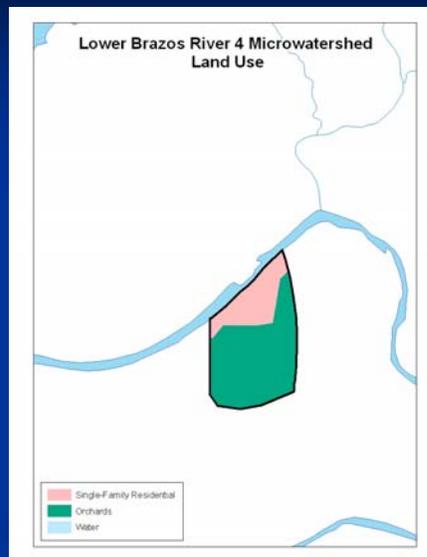
Lower Brazos River 3 Microwatershed

Land Use	Percent
Single-Family Residential	43%
Utilities/Transportation	6%
Recreational	10%
Orchards	33%
Rangeland	7%
Water	1%



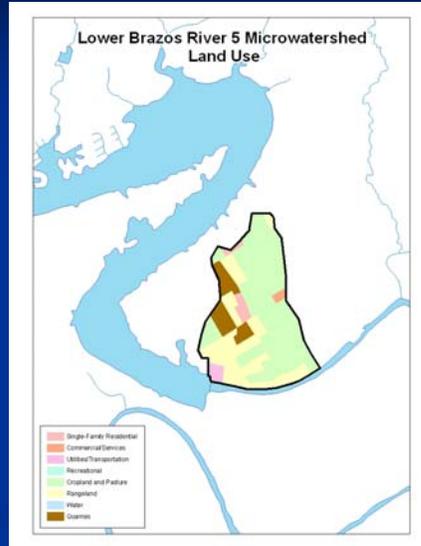
Lower Brazos River 4 Microwatershed

Land Use	Percent
Single-Family Residential	27%
Orchards	73%
Water	>1%



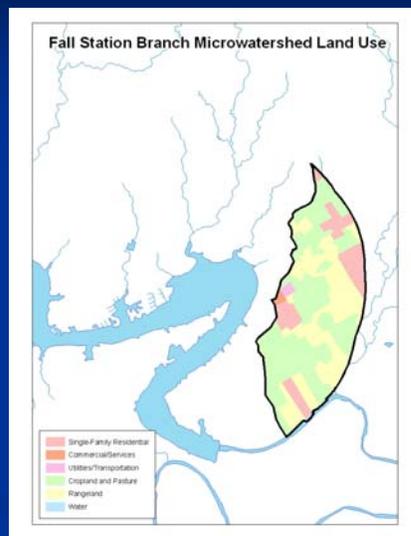
Lower Brazos River 5 Microwatershed

Land Use	Percent
Single-Family Residential	3%
Commercial/Services	>1%
Utilities/Transportation	2%
Recreational	>1%
Cropland and Pasture	56%
Rangeland	27%
Water	>1%
Quarries	9%



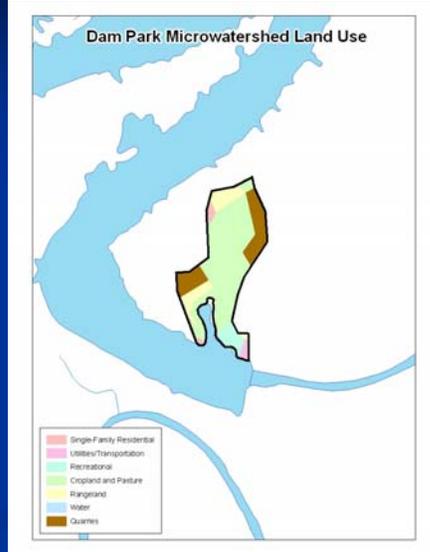
Fall Station Branch Microwatershed

Land Use	Percent
Single-Family Residential	14%
Commercial/Services	>1%
Utilities/Transportation	>1%
Cropland and Pasture	50%
Rangeland	33%
Water	>1%



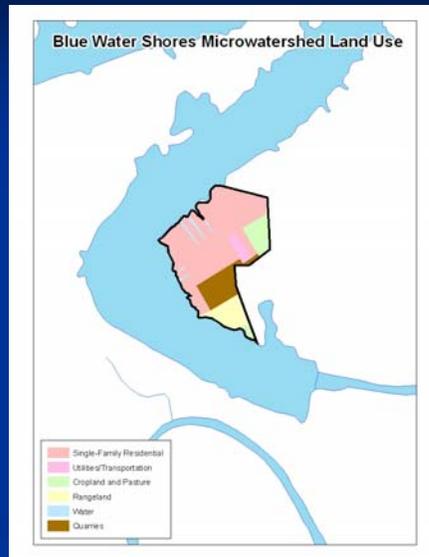
Dam Park Microwatershed

Land Use	Percent
Single-Family Residential	2%
Utilities/Transportation	2%
Recreational	6%
Cropland and Pasture	59%
Rangeland	12%
Water	>1%
Quarries	19%



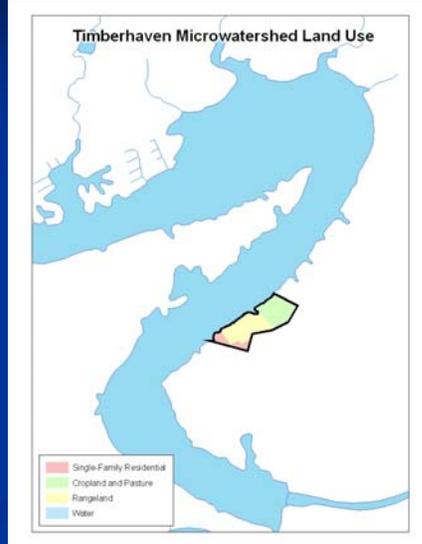
Blue Water Shores Microwatershed

Land Use	Percent
Single-Family Residential	64%
Utilities/Transportation	3%
Cropland and Pasture	8%
Rangeland	9%
Water	3%
Quarries	13%



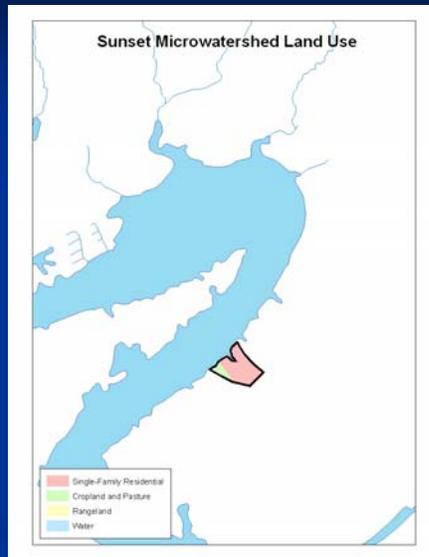
Timberhaven Microwatershed

Land Use	Percent
Single-Family Residential	13%
Cropland and Pasture	40%
Rangeland	46%
Water	>1%



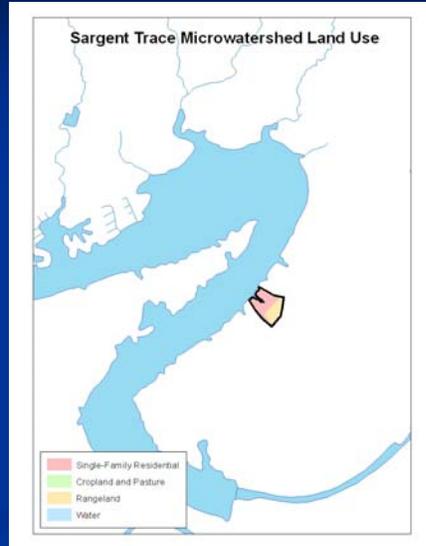
Sunset Microwatershed

Land Use	Percent
Single-Family Residential	85%
Cropland and Pasture	14%
Rangeland	>1%
Water	>1%



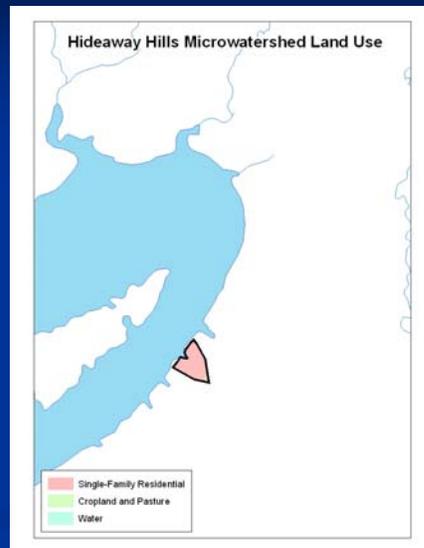
Sargent Trace Microwatershed

Land Use	Percent
Single-Family Residential	62%
Cropland and Pasture	3%
Rangeland	34%
Water	>1%



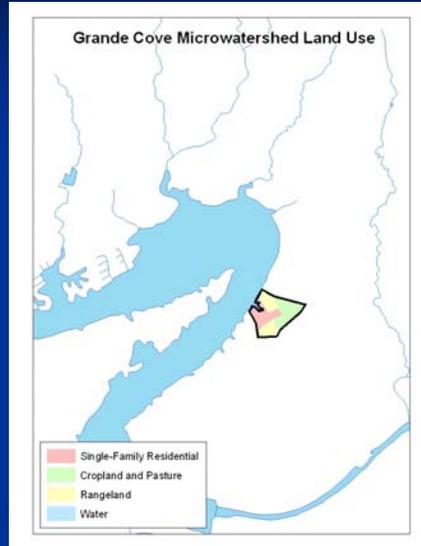
Blue Water Shores Microwatershed

Land Use	Percent
Single-Family Residential	97%
Cropland and Pasture	2%
Water	>1%



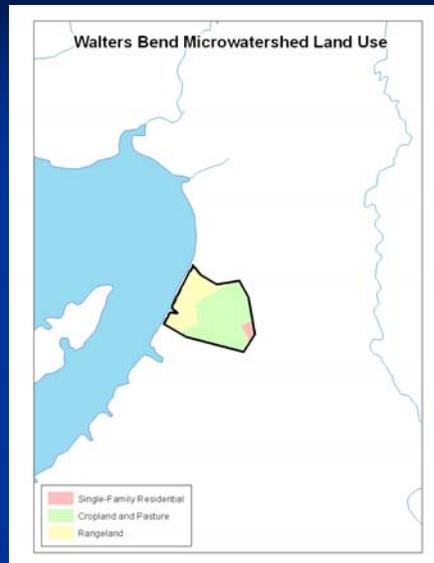
Grande Cove Microwatershed

Land Use	Percent
Single-Family Residential	29%
Cropland and Pasture	39%
Rangeland	30%
Water	>1%



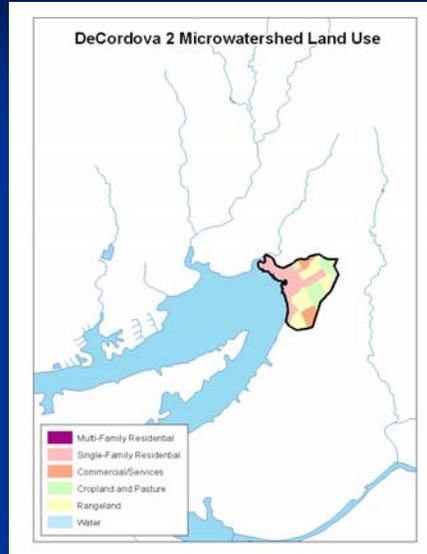
Walters Bend Microwatershed

Land Use	Percent
Single-Family Residential	3%
Cropland and Pasture	62%
Rangeland	35%



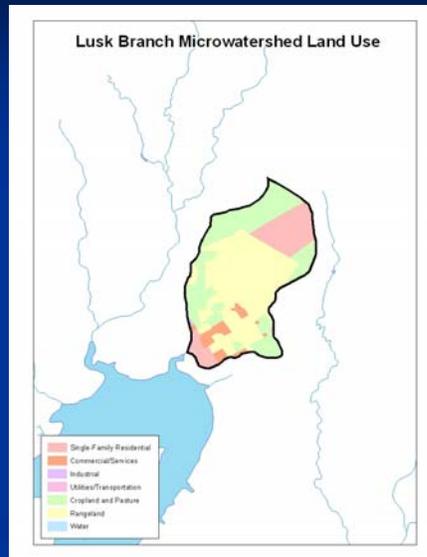
DeCordova 2 Microwatershed

Land Use	Percent
Multi-Family Residential	>1%
Single-Family Residential	37%
Commercial/Services	11%
Cropland and Pasture	21%
Rangeland	30%
Water	>1%



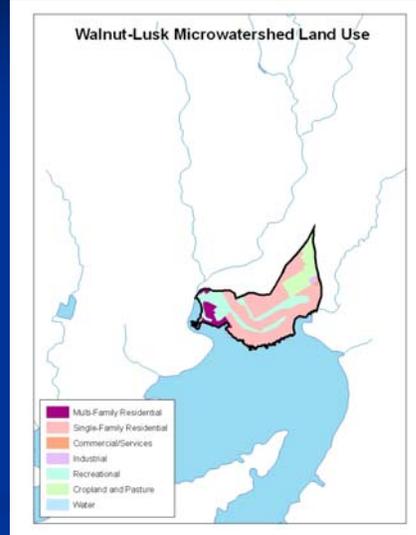
Lusk Branch Microwatershed

Land Use	Percent
Single-Family Residential	16%
Commercial/Services	4%
Industrial	>1%
Utilities/Transportation	>1%
Cropland and Pasture	33%
Rangeland	45%
Water	>1%



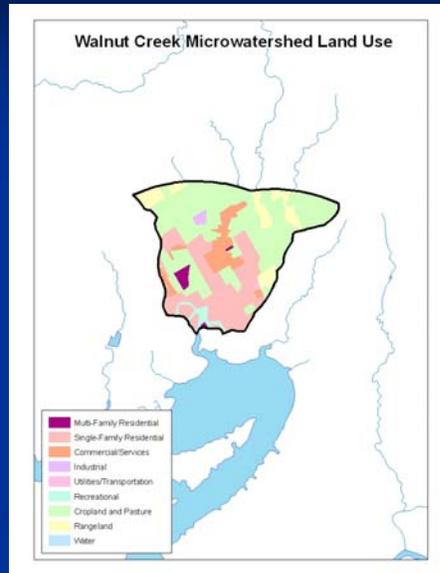
Walnut-Lusk Microwatershed

Land Use	Percent
Multi-Family Residential	5%
Single-Family Residential	56%
Commercial/Services	>1%
Industrial	>1%
Recreational	21%
Cropland and Pasture	14%
Water	2%



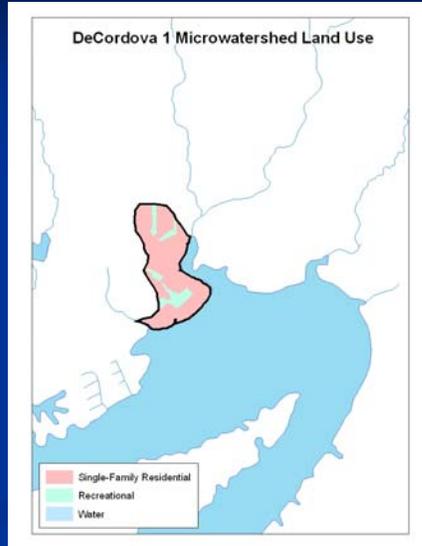
Walnut Creek Microwatershed

Land Use	Percent
Multi-Family Residential	1%
Single-Family Residential	26%
Commercial/Services	8%
Industrial	>1%
Utilities/Transportation	>1%
Recreational	2%
Cropland and Pasture	51%
Rangeland	9%
Water	>1%



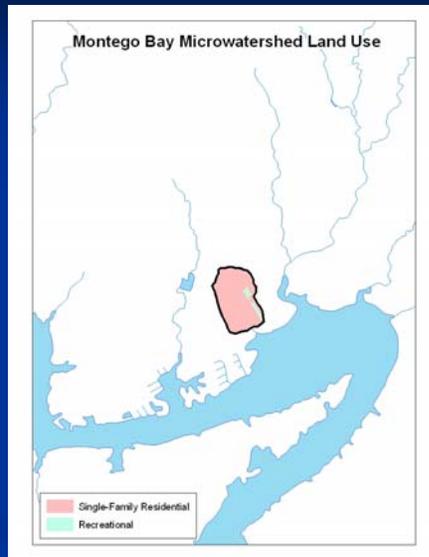
DeCordova 1 Microwatershed

Land Use	Percent
Single-Family Residential	86%
Recreational	14%
Water	>1%



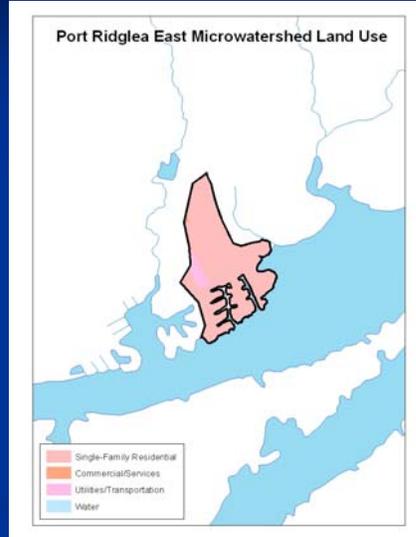
Montego Bay Microwatershed

Land Use	Percent
Single-Family Residential	95%
Recreational	5%



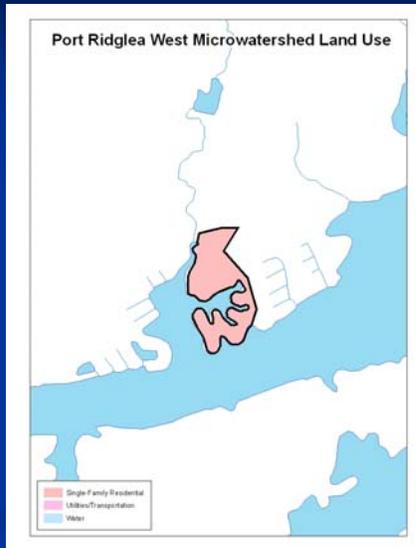
Port Ridglea East Microwatershed

Land Use	Percent
Single-Family Residential	93%
Commercial/Services	>1%
Utilities/Transportation	5%
Water	2%



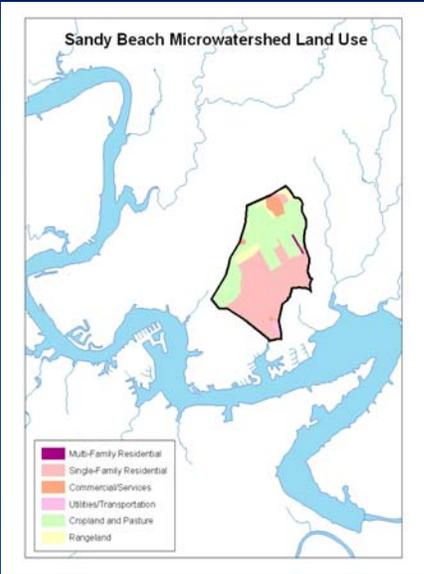
Port Ridglea West Microwatershed

Land Use	Percent
Single-Family Residential	96%
Utilities/Transportation	>1%
Water	4%



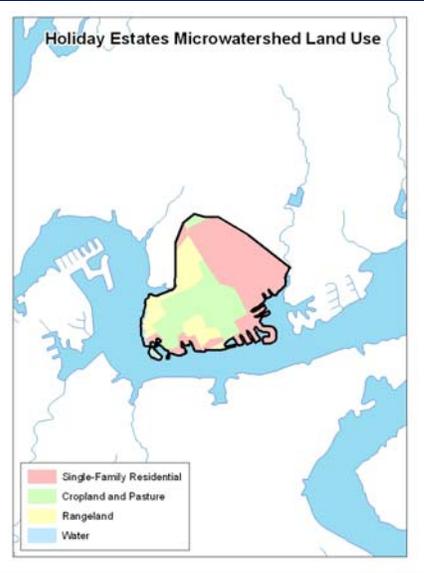
Sandy Beach Microwatershed

Land Use	Percent
Multi-Family Residential	>1%
Single-Family Residential	47%
Commercial/Services	4%
Utilities/Transportation	1%
Cropland and Pasture	42%
Rangeland	5%



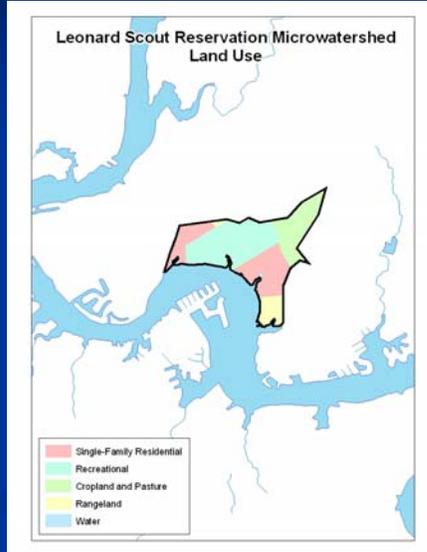
Holiday Estates Microwatershed

Land Use	Percent
Single-Family Residential	50%
Cropland and Pasture	30%
Rangeland	18%
Water	2%



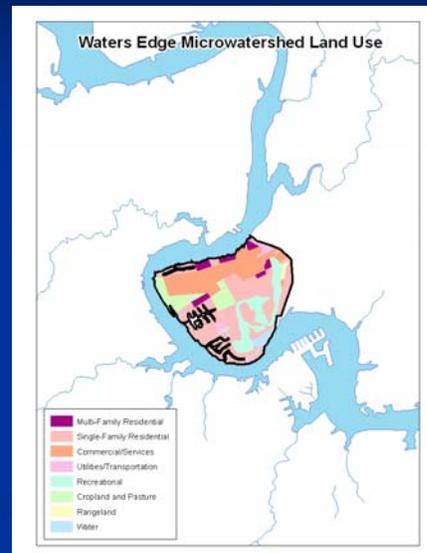
Leonard Scout Reservation Microwatershed

Land Use	Percent
Single-Family Residential	31%
Recreational	37%
Cropland and Pasture	21%
Rangeland	9%
Water	2%



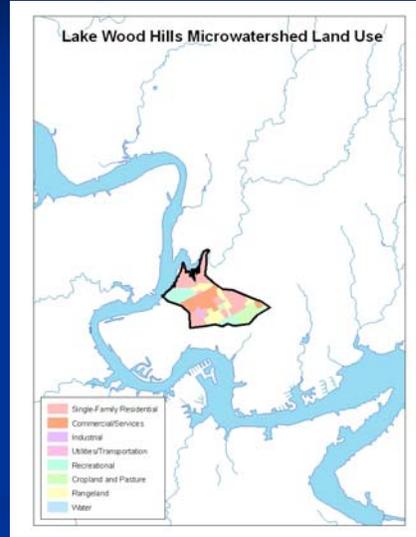
Waters Edge Microwatershed

Land Use	Percent
Multi-Family Residential	4%
Single-Family Residential	43%
Commercial/Services	23%
Utilities/Transportation	2%
Recreational	13%
Cropland and Pasture	9%
Rangeland	>1%
Water	4%



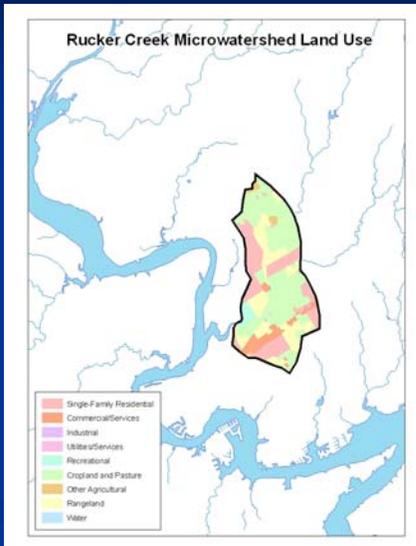
Lake Wood Hills Microwatershed

Land Use	Percent
Single-Family Residential	38%
Commercial/Services	17%
Industrial	1%
Utilities/Transportation	>1%
Recreational	14%
Cropland and Pasture	12%
Rangeland	16%
Water	>1%



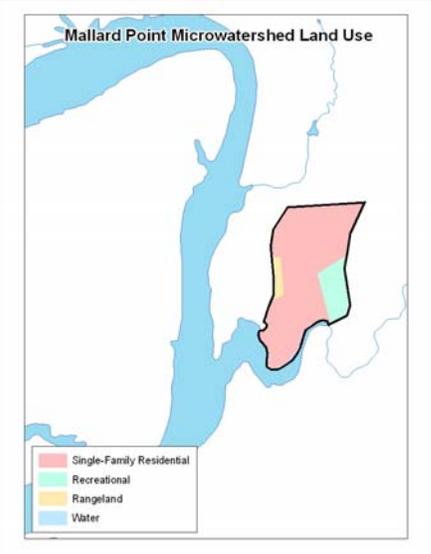
Rucker Creek Microwatershed

Land Use	Percent
Single-Family Residential	24%
Commercial/Services	6%
Industrial	>1%
Utilities/Transportation	>1%
Recreational	2%
Cropland and Pasture	45%
Other Agricultural	1%
Rangeland	19%
Water	>1%



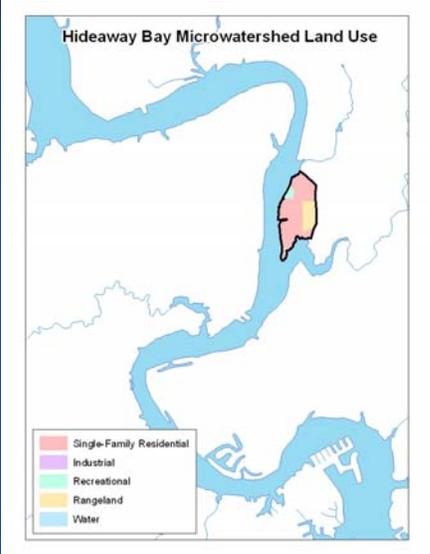
Mallard Point Microwatershed

Land Use	Percent
Single-Family Residential	82%
Recreational	13%
Rangeland	3%
Water	2%



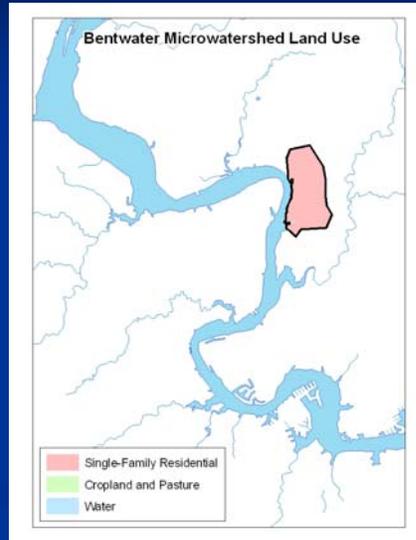
Hideaway Bay Microwatershed

Land Use	Percent
Single-Family Residential	75%
Industrial	>1%
Recreational	4%
Rangeland	19%
Water	>1%



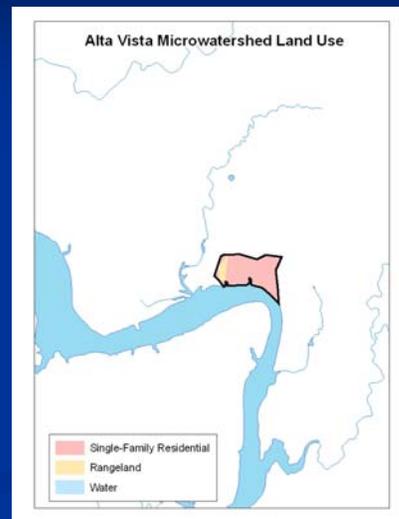
Bentwater Microwatershed

Land Use	Percent
Single-Family Residential	99%
Cropland and Pasture	>1%
Water	>1%



Alta Vista Microwatershed

Land Use	Percent
Single-Family Residential	90%
Rangeland	7%
Water	3%



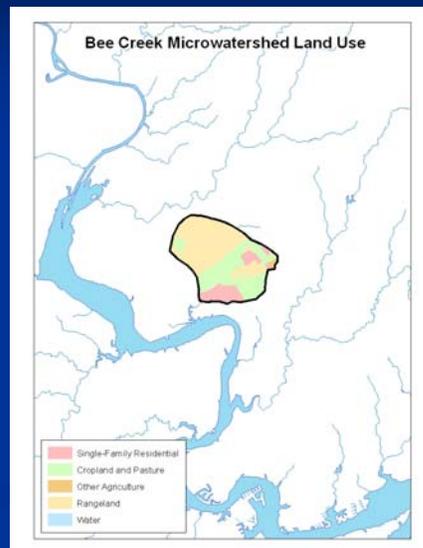
Sky Harbor 1 Microwatershed

Land Use	Percent
Single-Family Residential	96%
Water	4%



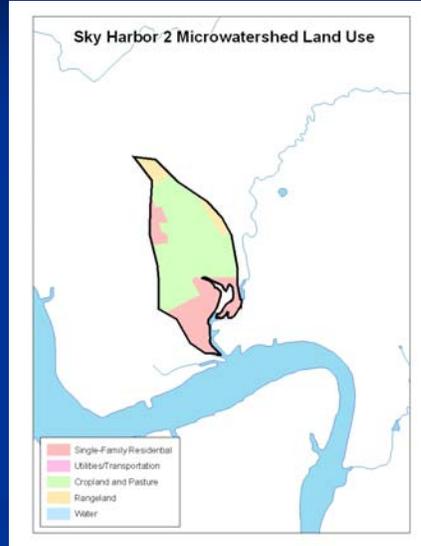
Bee Creek Microwatershed

Land Use	Percent
Single-Family Residential	14%
Cropland and Pasture	34%
Other Agricultural	>1%
Rangeland	50%
Water	>1%



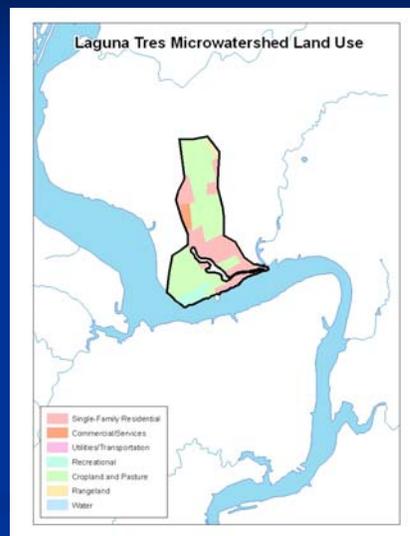
Sky Harbor 2 Microwatershed

Land Use	Percent
Single-Family Residential	28%
Utilities/Transportation	>1%
Cropland and Pasture	62%
Rangeland	8%
Water	>1%



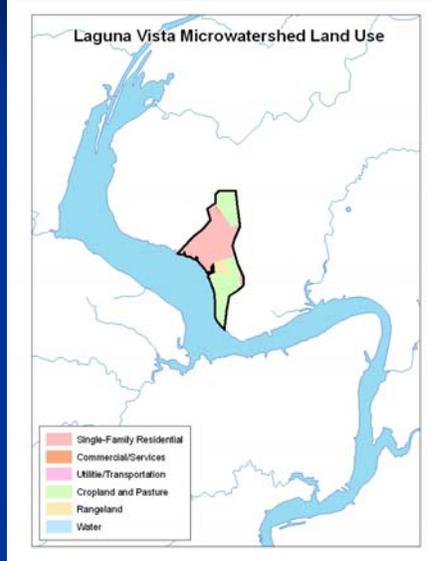
Laguna Tres Microwatershed

Land Use	Percent
Single-Family Residential	32%
Commercial/Services	3%
Utilities/Transportation	>1%
Recreational	4%
Cropland and Pasture	58%
Rangeland	1%
Water	>1%



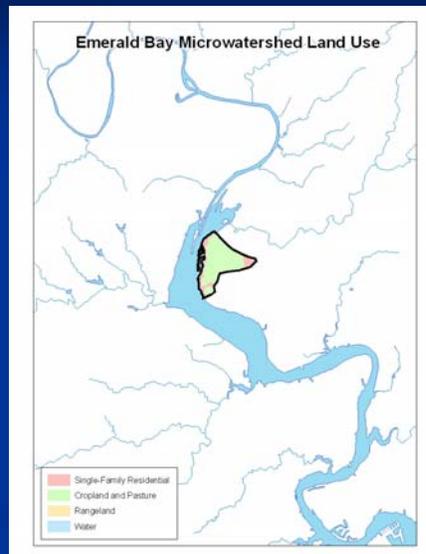
Laguna Vista Microwatershed

Land Use	Percent
Single-Family Residential	50%
Commercial/Services	>1%
Utilities/Transportation	>1%
Cropland and Pasture	42%
Rangeland	5%
Water	>1%



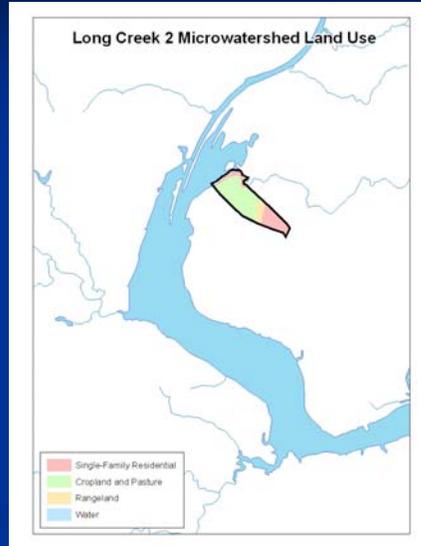
Emerald Bay Microwatershed

Land Use	Percent
Single-Family Residential	18%
Cropland and Pasture	76%
Rangeland	>1%
Water	5%



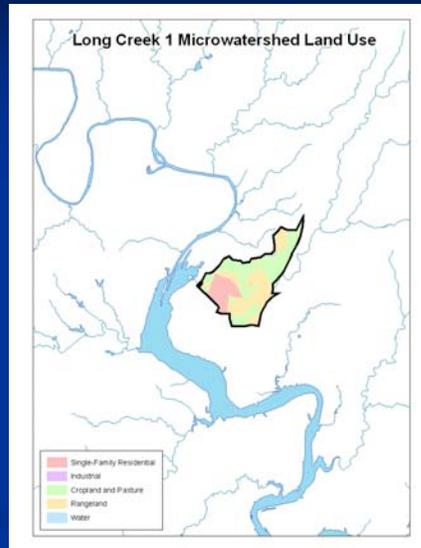
Long Creek 2 Microwatershed

Land Use	Percent
Single-Family Residential	32%
Cropland and Pasture	56%
Rangeland	9%
Water	3%



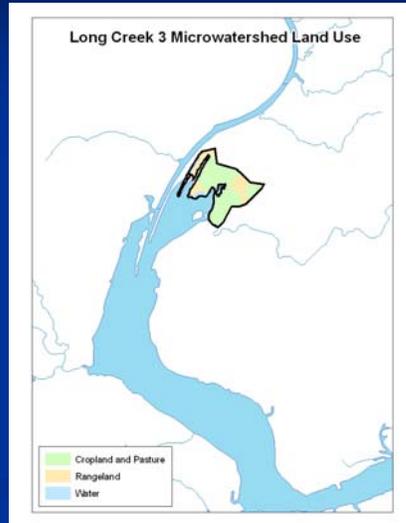
Long Creek 1 Microwatershed

Land Use	Percent
Single-Family Residential	15%
Industrial	>1%
Cropland and Pasture	46%
Rangeland	37%
Water	>1%



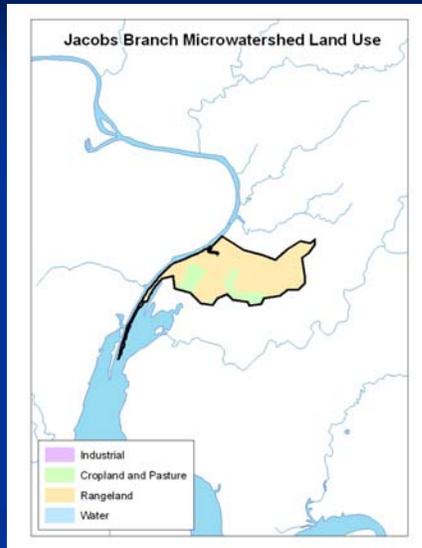
Long Creek 3 Microwatershed

Land Use	Percent
Cropland and Pasture	65%
Rangeland	27%
Water	8%



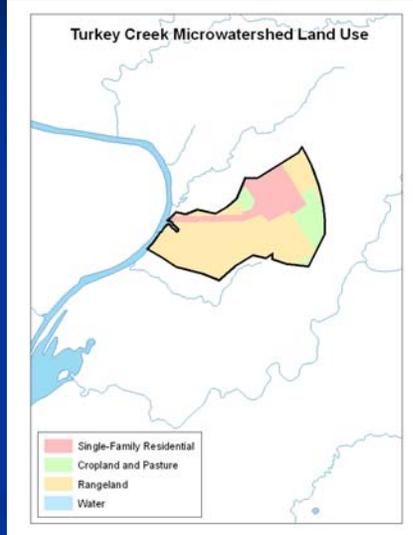
Jacobs Branch Microwatershed

Land Use	Percent
Industrial	>1%
Cropland and Pasture	17%
Rangeland	81%
Water	1%



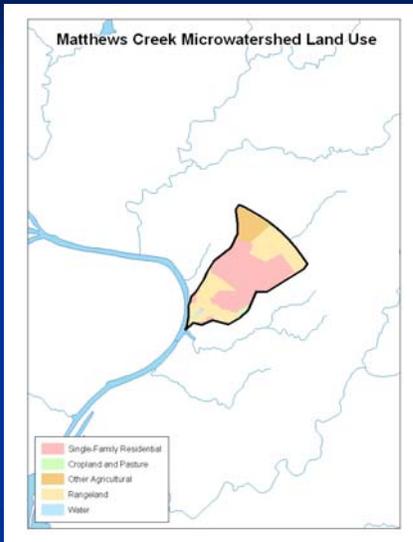
Turkey Creek Microwatershed

Land Use	Percent
Single-Family Residential	21%
Cropland and Pasture	13%
Rangeland	65%
Water	>1%



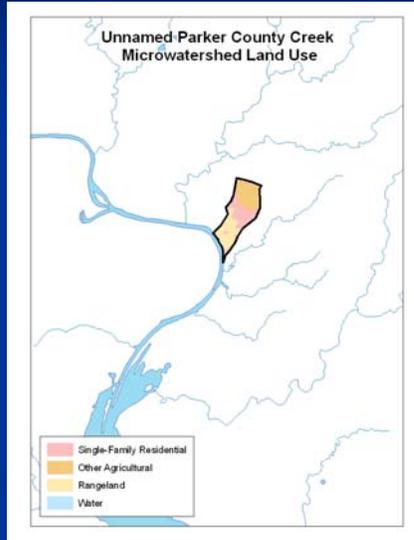
Matthews Creek Microwatershed

Land Use	Percent
Single-Family Residential	48%
Cropland and Pasture	1%
Other Agricultural	11%
Rangeland	39%
Water	>1%



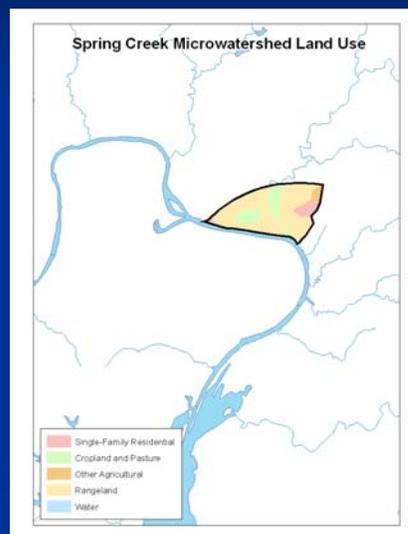
Unnamed Parker County Creek Microwatershed

Land Use	Percent
Single-Family Residential	32%
Other Agricultural	35%
Rangeland	32%
Water	>1%



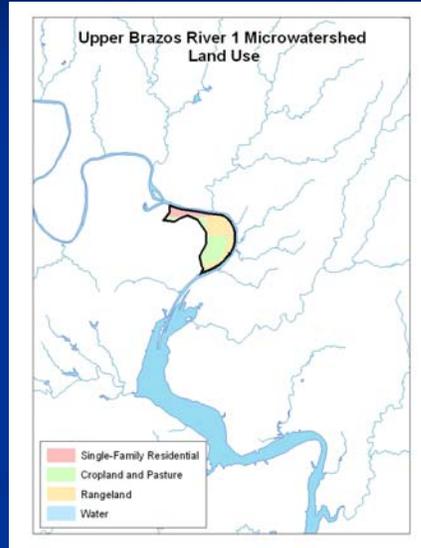
Spring Creek Microwatershed

Land Use	Percent
Single-Family Residential	8%
Cropland and Pasture	16%
Other Agricultural	3%
Rangeland	73%
Water	>1%



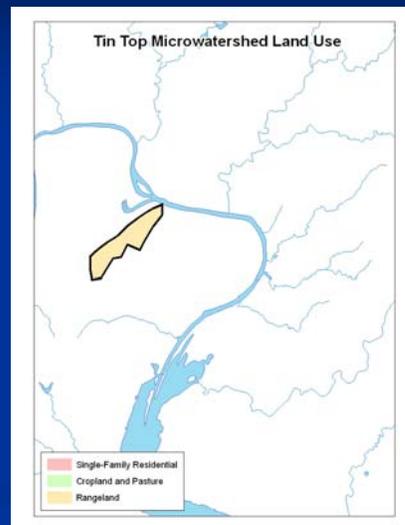
Upper Brazos River 1 Microwatershed

Land Use	Percent
Single-Family Residential	14%
Cropland and Pasture	38%
Rangeland	47%
Water	>1%



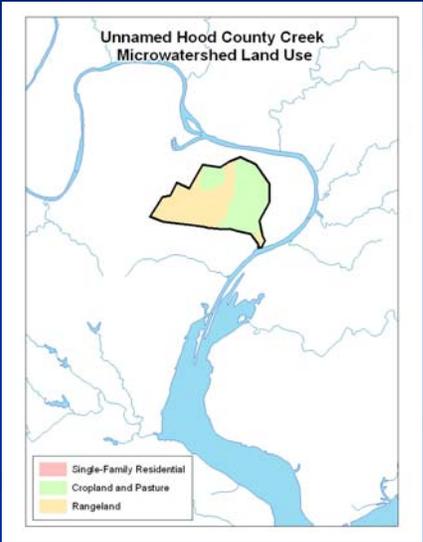
Tin Top Microwatershed

Land Use	Percent
Single-Family Residential	>1%
Cropland and Pasture	>1%
Rangeland	99%



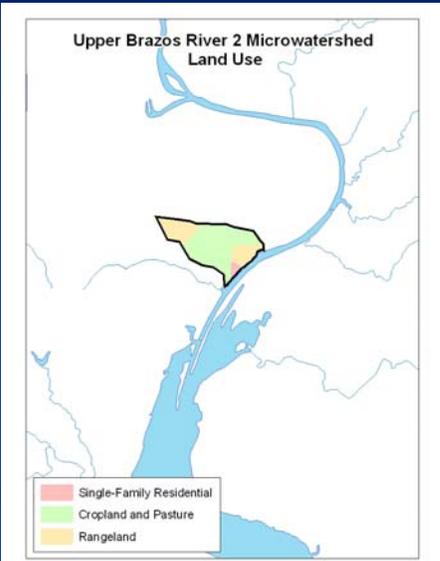
Unnamed Hood County Creek Microwatershed

Land Use	Percent
Single-Family Residential	>1%
Cropland and Pasture	49%
Rangeland	50%



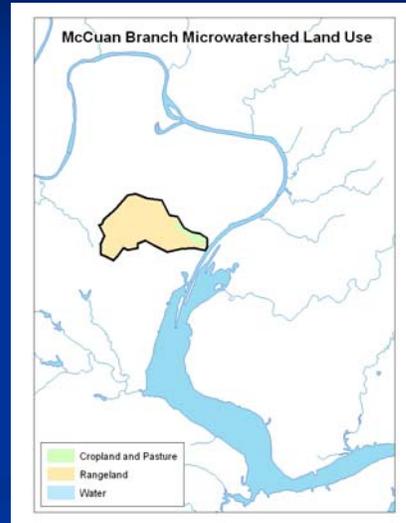
Upper Brazos River 2 Microwatershed

Land Use	Percent
Single-Family Residential	3%
Cropland and Pasture	63%
Rangeland	34%



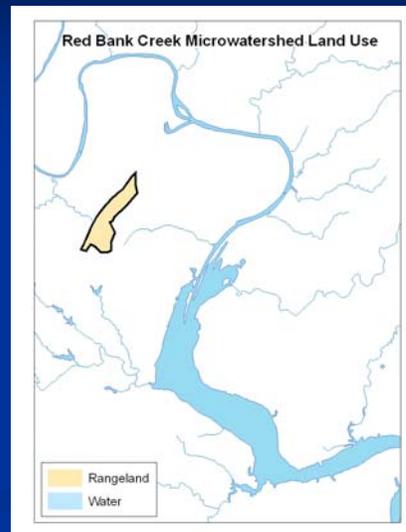
McCuan Branch Microwatershed

Land Use	Percent
Cropland and Pasture	6%
Rangeland	93%
Water	>1%



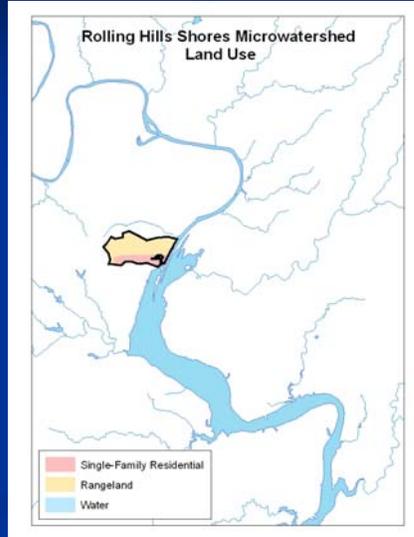
Red Bank Creek Microwatershed

Land Use	Percent
Rangeland	99%
Water	>1%



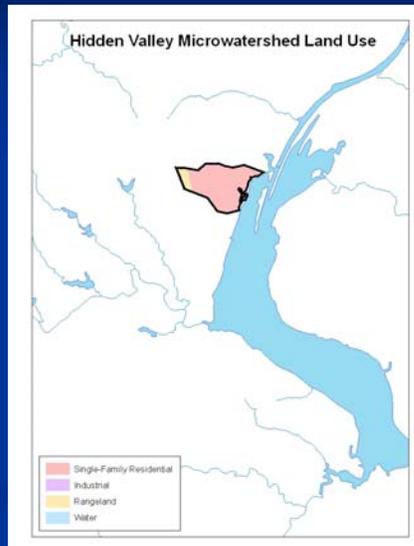
Rolling Hills Shores Microwatershed

Land Use	Percent
Single-Family Residential	25%
Rangeland	74%
Water	>1%



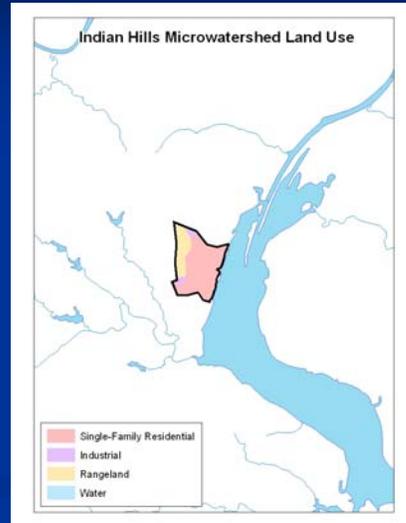
Hidden Valley Microwatershed

Land Use	Percent
Single-Family Residential	91%
Industrial	>1%
Rangeland	8%
Water	>1%



Indian Hills Microwatershed

Land Use	Percent
Single-Family Residential	73%
Industrial	5%
Rangeland	22%
Water	>1%



The Live Oaks Microwatershed

Land Use	Percent
Single-Family Residential	100%



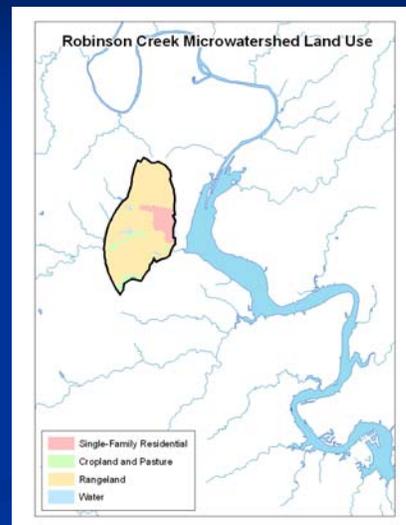
Arrowhead Shores Microwatershed

Land Use	Percent
Single-Family Residential	99%
Water	>1%



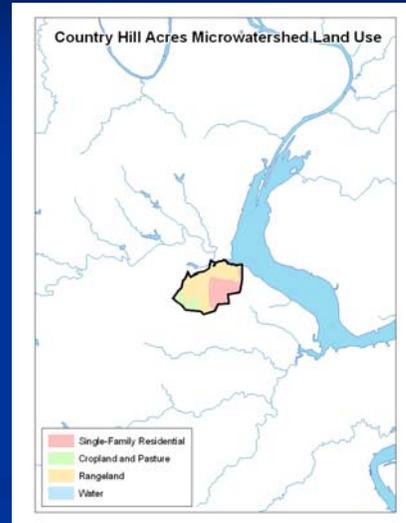
Robinson Creek Microwatershed

Land Use	Percent
Single-Family Residential	11%
Cropland and Pasture	6%
Rangeland	82%
Water	1%



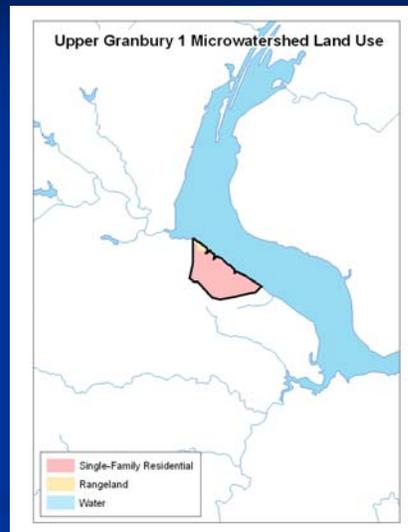
Country Hill Acres Microwatershed

Land Use	Percent
Single-Family Residential	32%
Cropland and Pasture	9%
Rangeland	58%
Water	>1%



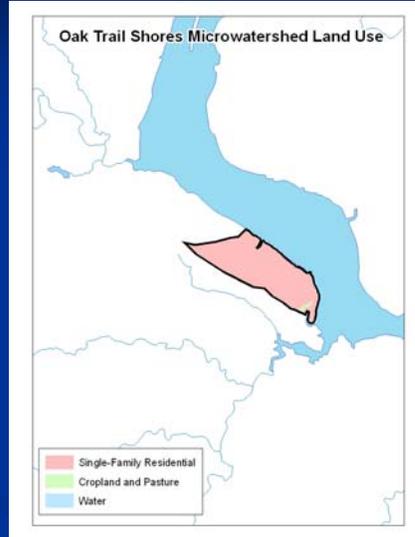
Upper Granbury 1 Microwatershed

Land Use	Percent
Single-Family Residential	95%
Rangeland	4%
Water	1%



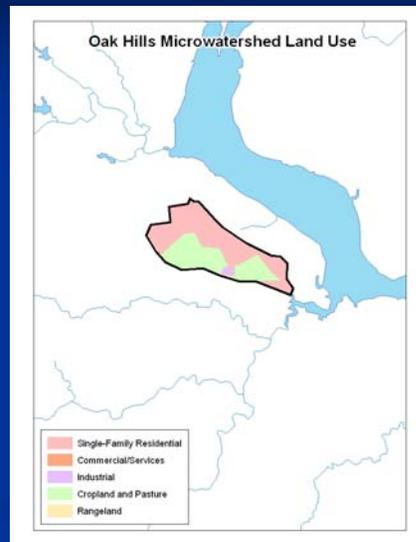
Oak Trail Shores Microwatershed

Land Use	Percent
Single-Family Residential	97%
Cropland and Pasture	1%
Water	1%



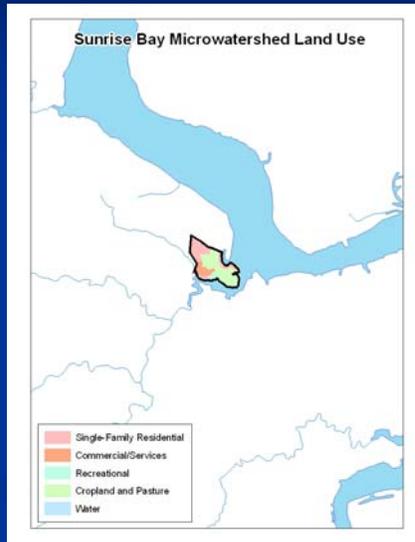
Oak Hills Microwatershed

Land Use	Percent
Single-Family Residential	60%
Commercial/Services	>1%
Industrial	1%
Cropland and Pasture	37%
Rangeland	1%



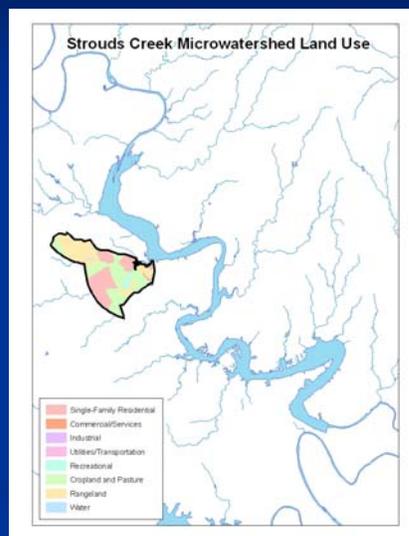
Sunrise Bay Microwatershed

Land Use	Percent
Single-Family Residential	34%
Commercial/Services	12%
Recreational	3%
Cropland and Pasture	46%
Water	5%



Strouds Creek Microwatershed

Land Use	Percent
Single-Family Residential	30%
Commercial/Services	>1%
Industrial	>1%
Utilities/Transportation	>1%
Recreational	2%
Cropland and Pasture	38%
Rangeland	28%
Water	>1%



Strouds Creek Microwatershed

Land Use	Percent
Single-Family Residential	22%
Cropland and Pasture	63%
Rangeland	14%
Water	>1%

