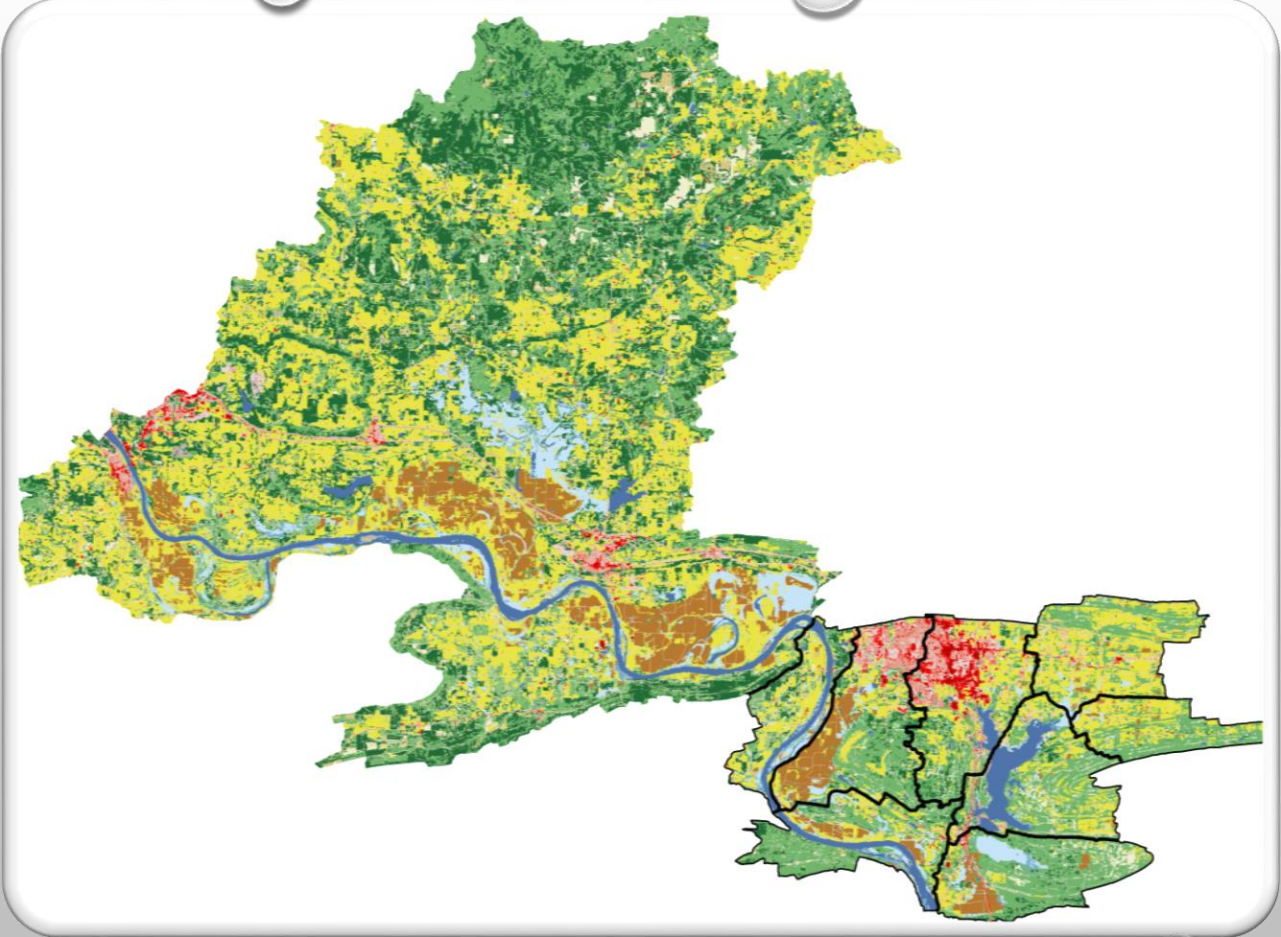


# LAKE CONWAY-POINT REMOVE WATERSHED

PRESENTER: CANTON FORD

FAULKNER COUNTY CONSERVATION DISTRICT

PRESIDENT, LAKE CONWAY POINT REMOVE WATERSHED ALLIANCE



# WATERSHED ASSESSMENT



# STREAM NETWORK

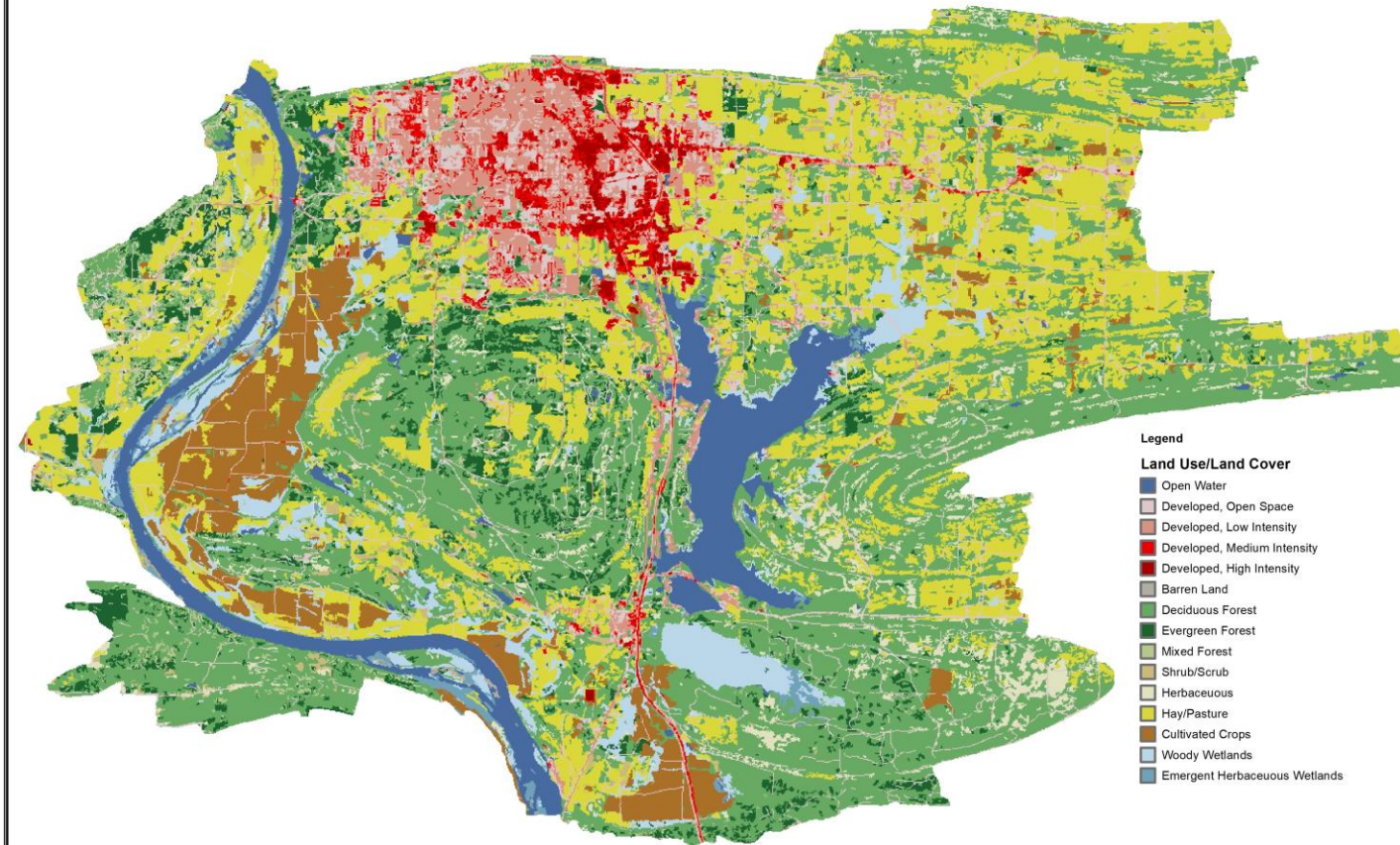


# WATER MONITORING STATIONS



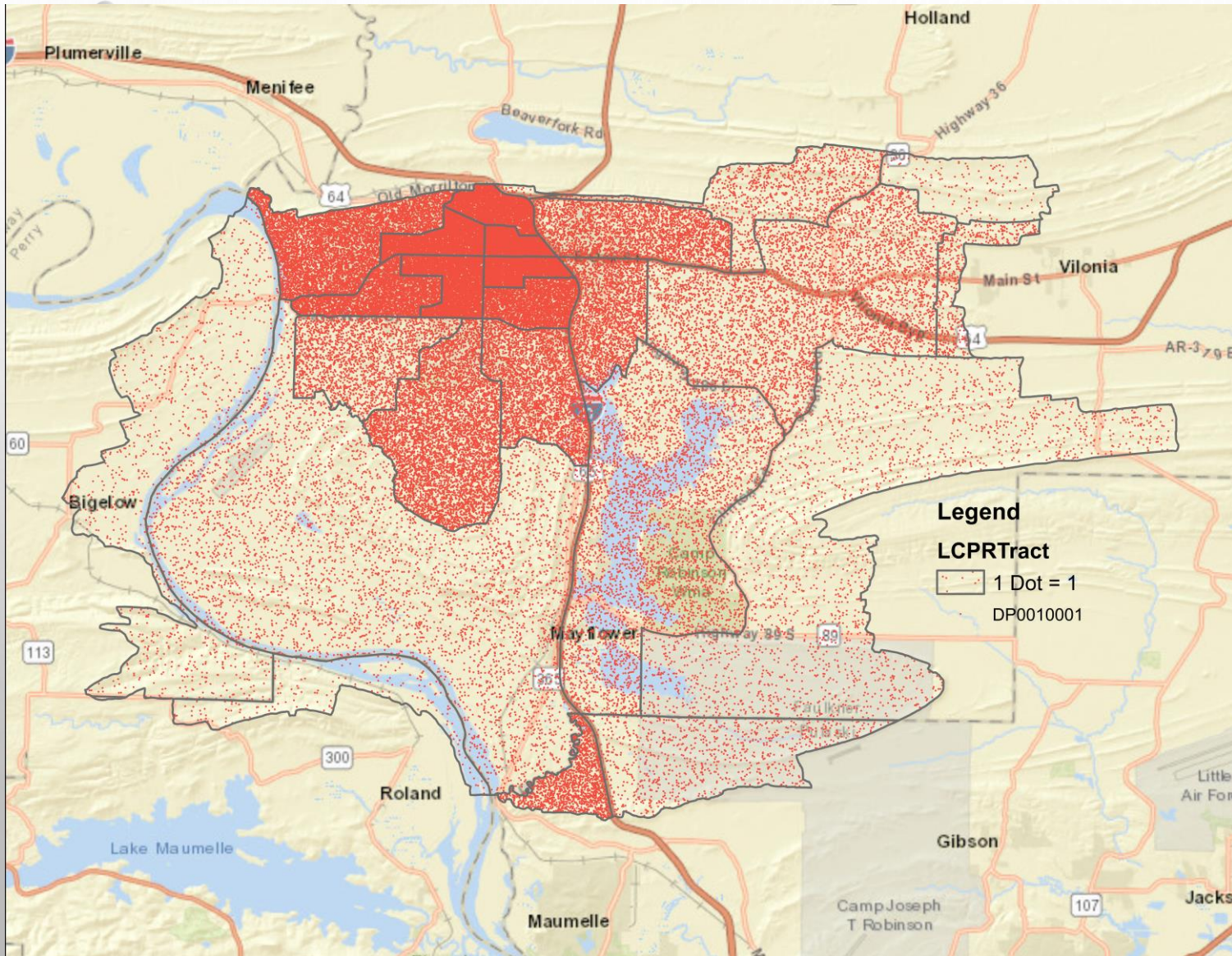


# DEVELOPING OBJECTIVES USING LAND USE DATA



OID	Value	Count	Red	Green	Blue	Land_Cover	Opacity	Acres *
0	11	45665	0.278431	0.419608	0.627451	Open Water	1	10155.644843
1	21	48966	0.866667	0.788235	0.788235	Developed, Open Space	1	10889.769087
2	22	40233	0.847059	0.576471	0.509804	Developed, Low Intensity	1	8947.597918
3	23	13668	0.929412	0	0	Developed, Medium Intensity	1	3039.688026
4	24	7037	0.666667	0	0	Developed, High Intensity	1	1564.990096
5	31	1404	0.698039	0.678431	0.639216	Barren Land	1	312.241878
6	41	271793	0.407843	0.666667	0.388235	Deciduous Forest	1	60445.268338
7	42	37600	0.109804	0.388235	0.188235	Evergreen Forest	1	8362.0332
8	43	12660	0.709804	0.788235	0.556863	Mixed Forest	1	2815.51437
9	52	6970	0.8	0.729412	0.486275	Shrub/Scrub	1	1550.089665
10	71	25110	0.886275	0.886275	0.756863	Herbaceous	1	5584.325895
11	81	186004	0.858824	0.847059	0.235294	Hay/Pasture	1	41366.266578
12	82	45340	0.666667	0.439216	0.156863	Cultivated Crops	1	10083.36663
13	90	35477	0.729412	0.847059	0.917647	Woody Wetlands	1	7889.889677
14	95	7107	0.439216	0.639216	0.729412	Emergent Herbaceous Wetlands	1	1580.557712

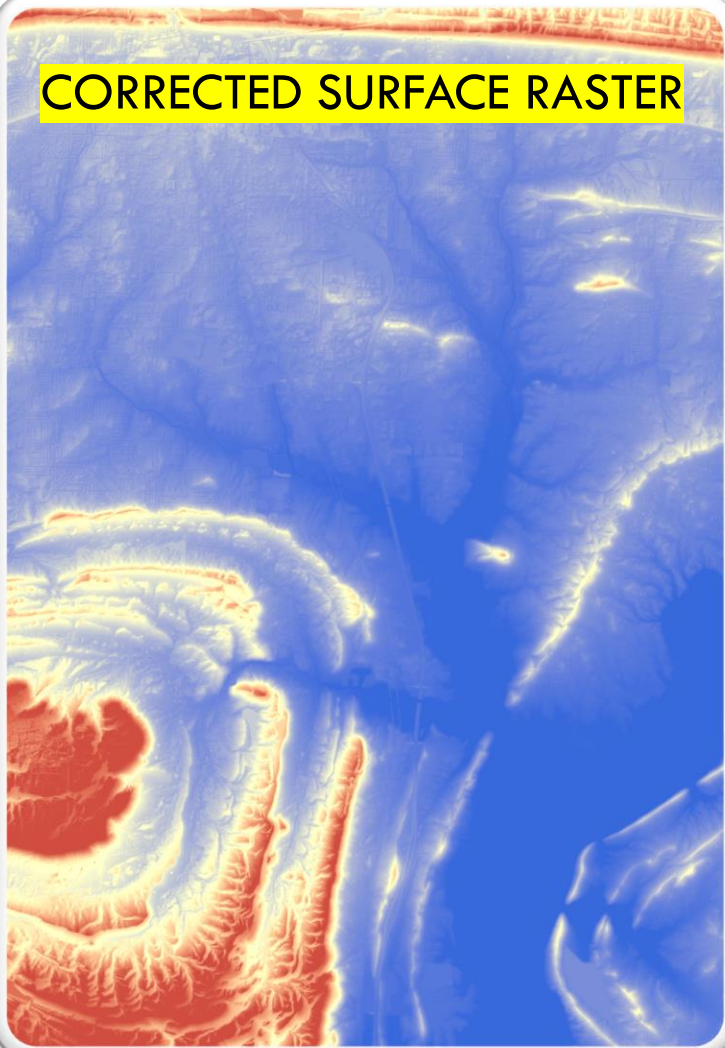




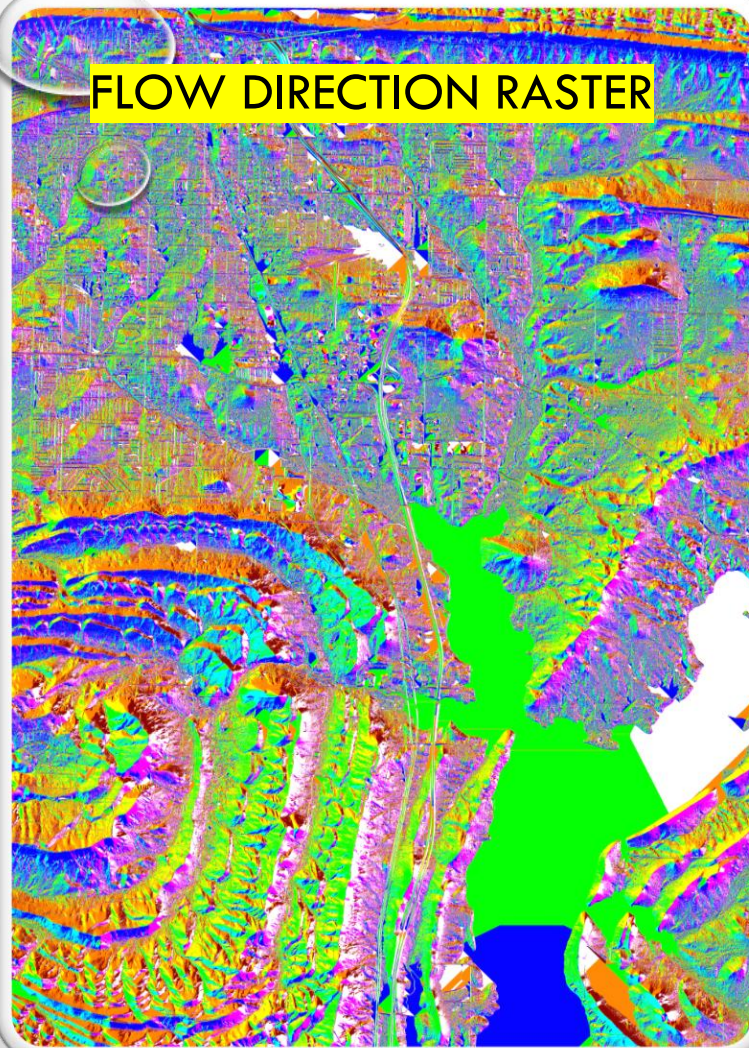
# POPULATION DENSITY



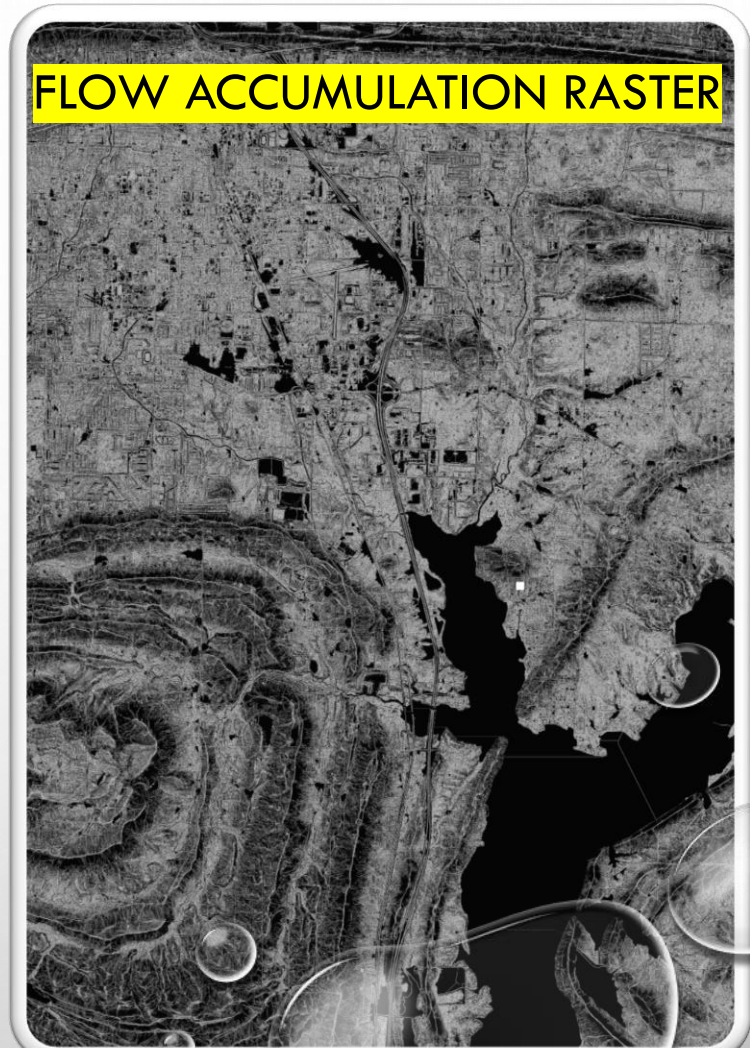
CORRECTED SURFACE RASTER



FLOW DIRECTION RASTER



FLOW ACCUMULATION RASTER



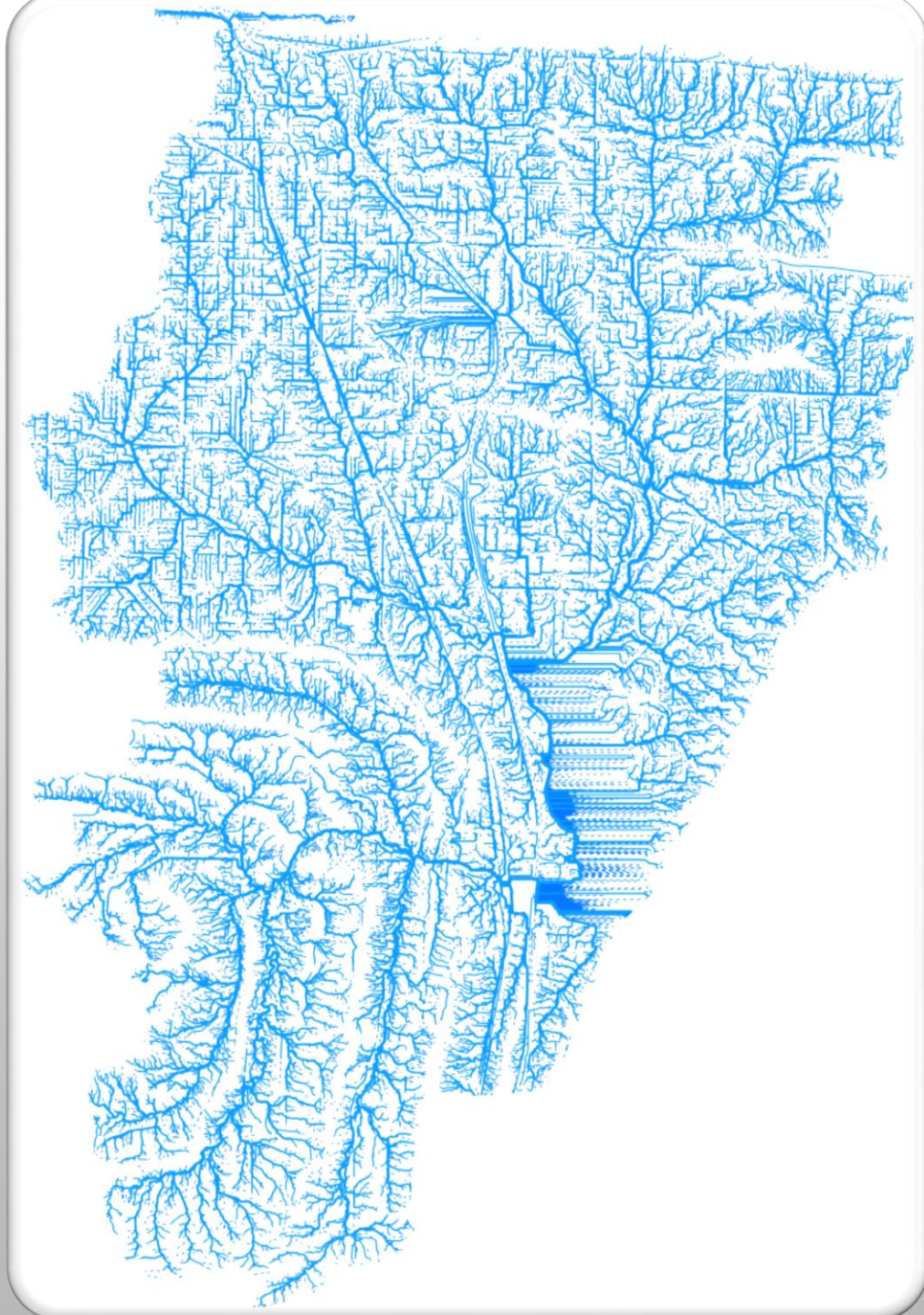
**SURFACE RUNOFF CREATION**





**STREAM ORDER**

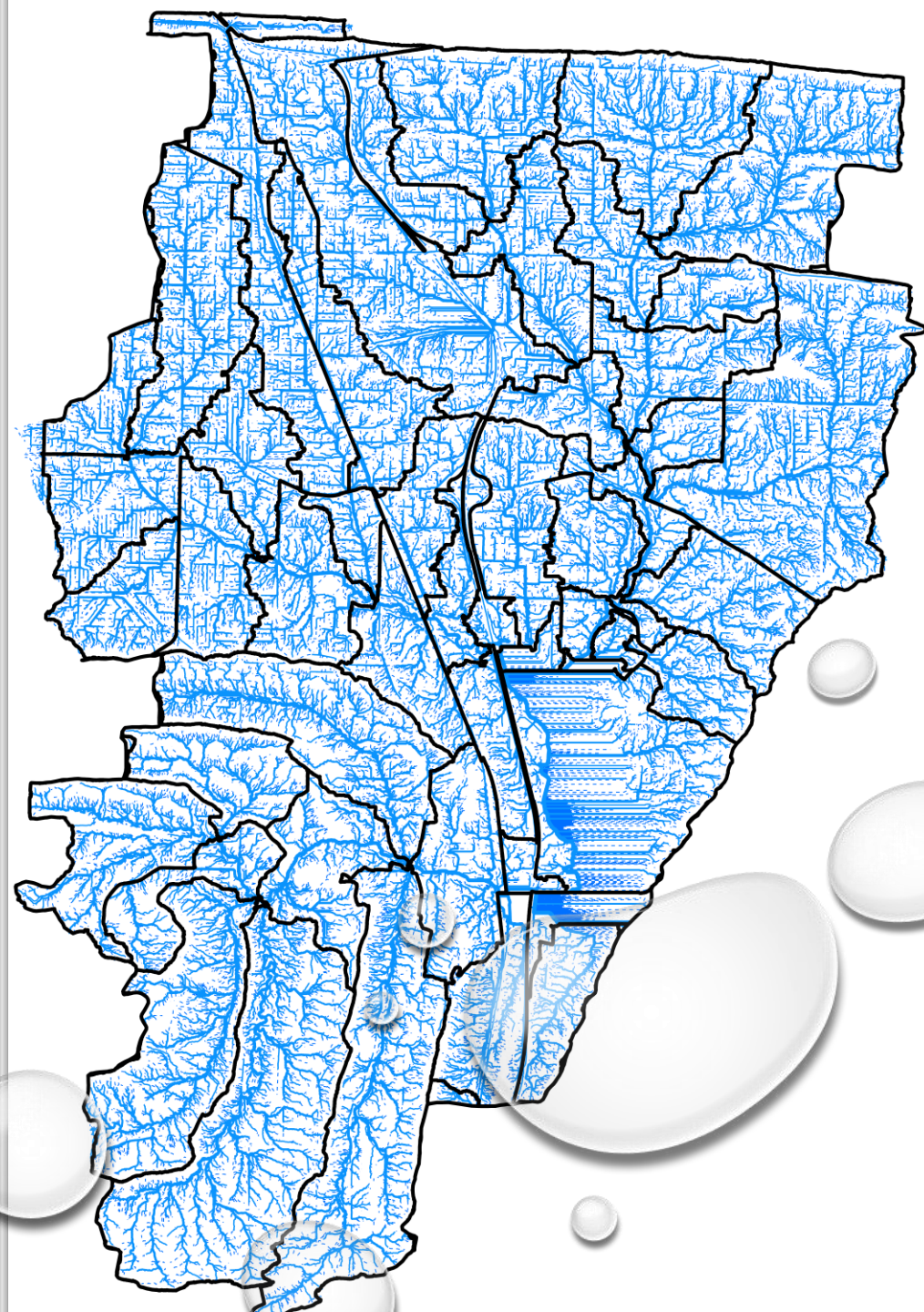




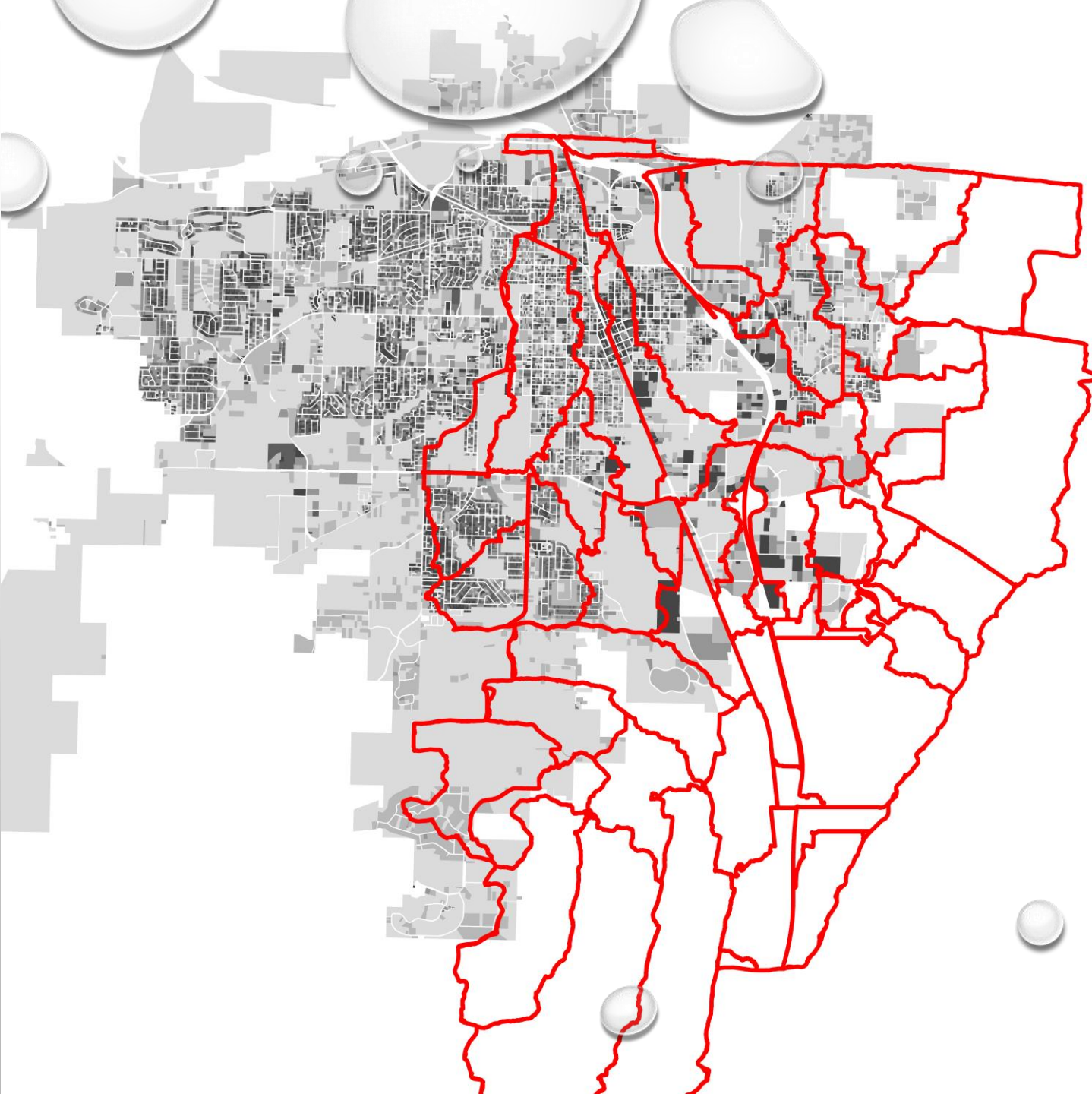
# REFINED STREAM ORDER



# CATCHMENT CREATION

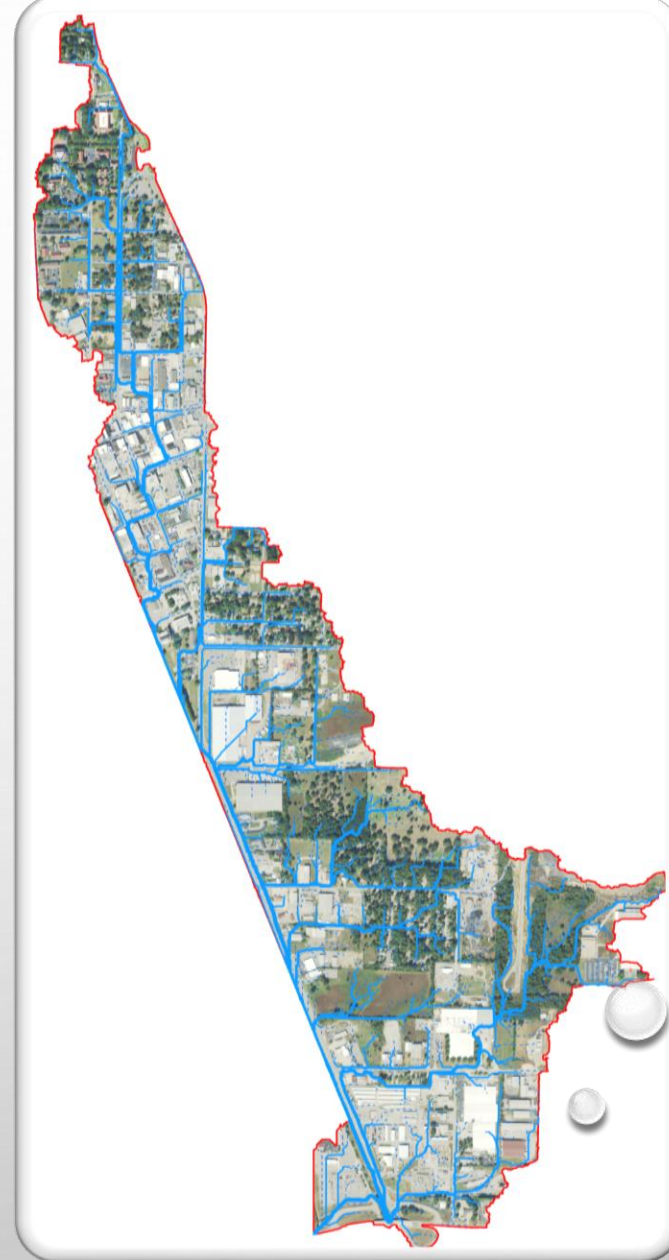
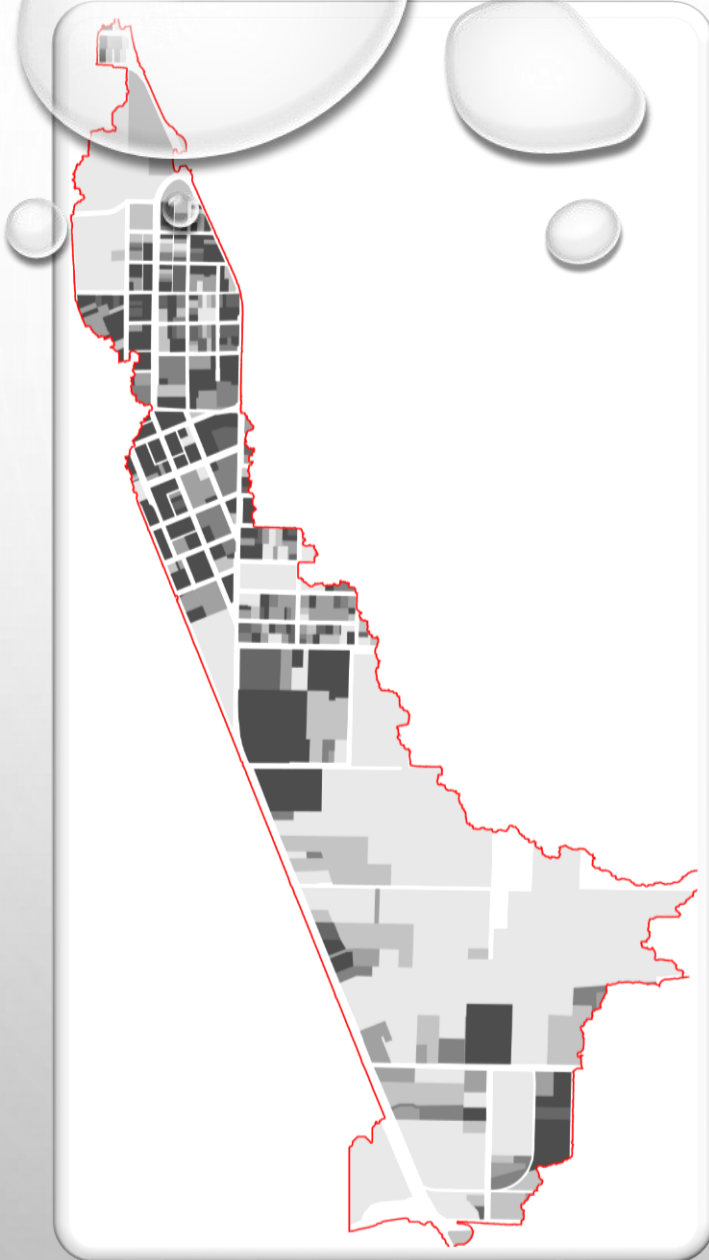






# STRUCTURE DENSITY





CATCHMENT ANALYSIS FOR LID

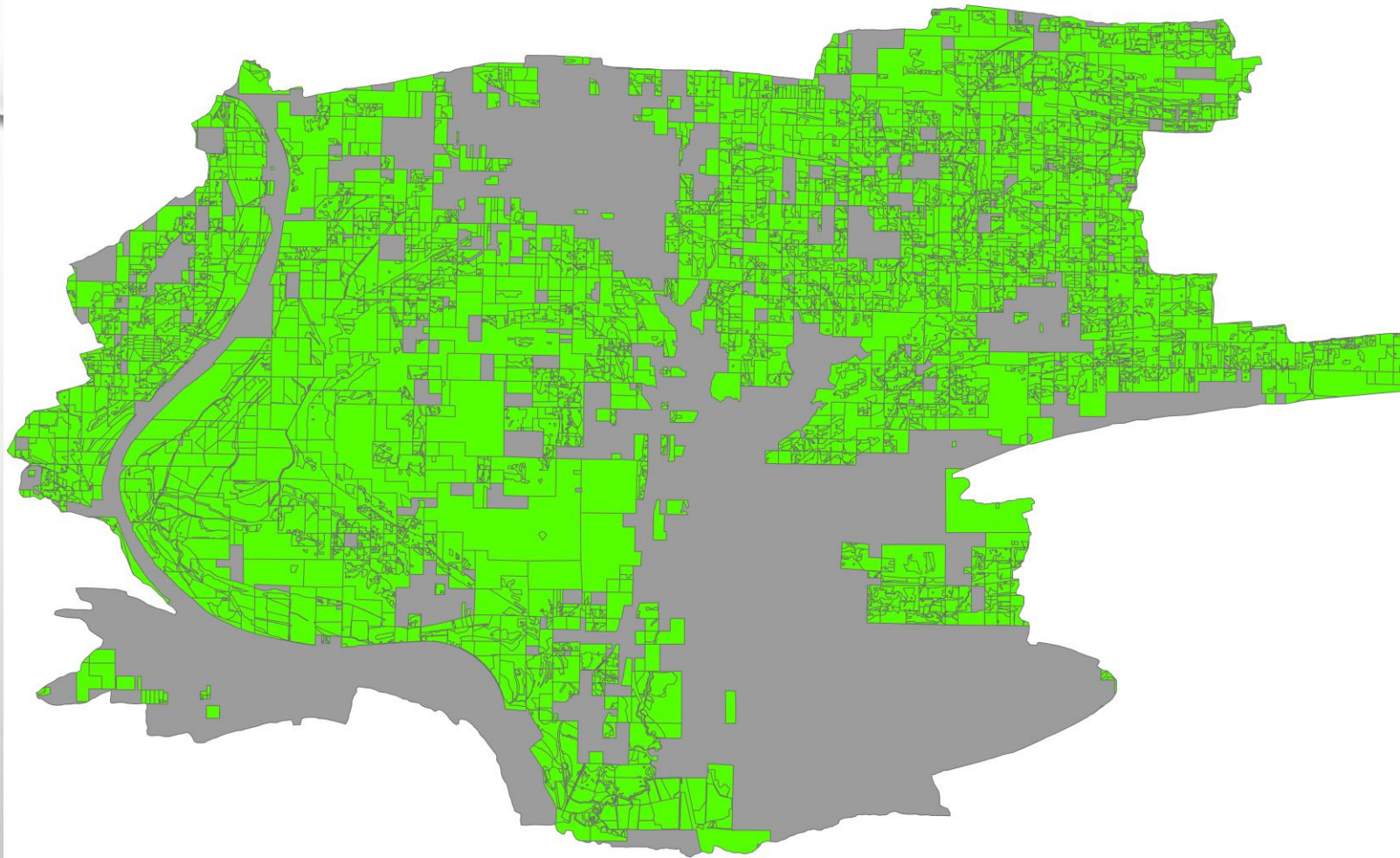




# TARGETING FOR LID CONSTRUCTION







1	COUNTYCD	FARMNBR	CALCACRES		Farm Number	Calculated Acres
2	45	1	77.52		1	77.52
3	45	2	8.14		2	9.64
4	45	2	0.32		3	31.36
5	45	2	1.18		4	120.25
6	45	3	31.36		6	59.73
7	45	4	42.73		7	668.29
8	45	4	19.26		8	85.68
9	45	4	53.43		9	36.75
10	45	4	0.32		10	40.94
11	45	4	0.29		11	14.4
12	45	4	3.99		12	253.16
13	45	4	0.23		13	107.41
14	45	6	2.06		14	20.22
15	45	6	5.47		16	54.44
16	45	6	10.74		20	40.53
17	45	6	9.09		22	142.6
18	45	6	0.81		25	34.24
19	45	6	31.56		27	234.74
20	45	7	21.19		30	301.38
21	45	7	1.47		31	8.25
22	45	7	0.88		35	161.29
23	45	7	4.5		36	40.78
24	45	7	1.07		37	37.8
25	45	7	5.19		38	198.17
26	45	7	2.44		39	57.82
27	45	7	34.44		41	377.28
28	45	7	1.84		43	165.37
29	45	7	20.15		45	4.99
30	45	7	7.85		47	217.21
31	45	7	34.01		49	14.94
32	45	7	26.8		50	263.4
33	45	7	4.91		55	5.49
34	45	7	36.01		57	16.29
35	45	7	14.28		62	185.03
36	45	7	2.22		64	41.41
37	45	7	3.42		65	87.22
38	45	7	2.68		68	164.84

Original Data

Calculations

Farm-Acres

# APPLICANT ANALYSIS





# PROJECT OUTLINE

- Best Management Practices

1. Livestock Pipeline
2. Watering Facility
3. Heavy Use Area
4. Cross-fencing – barbed, electric, woven wire
5. Forage and biomass planting
6. Brush Management
7. Herbaceous Weed Control
8. Stream Crossing


## Resource Concerns Addressed

1. Water Quality and Quantity
2. Sheet and Rill Erosion
3. Forage Quality and Sustainability
4. Animal Health





# FUTURE OF LCPR WATERSHED

- Organized outreach and education campaign
  - Professional partners and board members
  - Non-professional members
  - Local government participation
- 



QUESTIONS?

