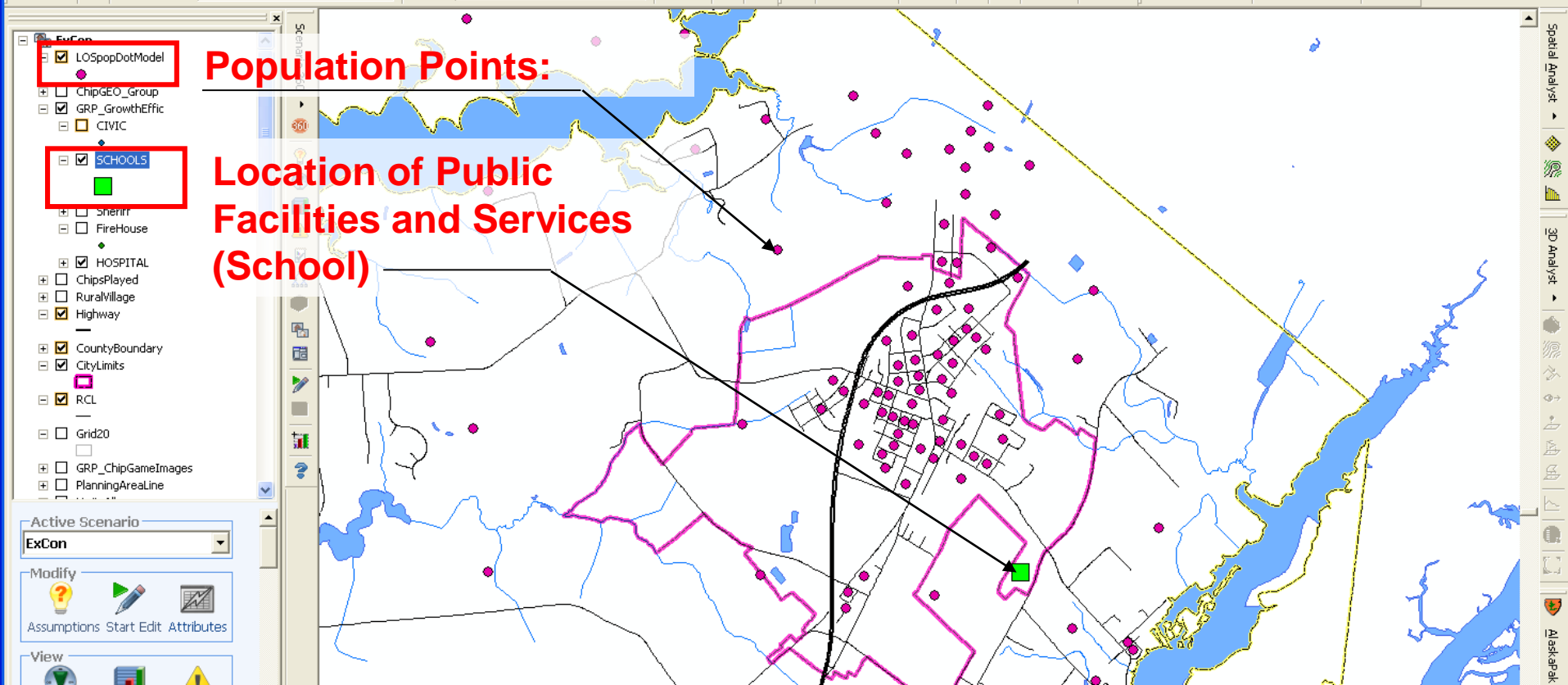# Northampton Level of Service Analysis

ChipGameSummaryONE

File Edit View Insert Selection Tools Window Help

Editor ▾ Task: Create New Feature Target: SiteBuilder 3D ▾

Population Points:

Location of Public Facilities and Services (School)

ExCon
- ☑ LOSpopDotModel
- ☐ ChipGEO_Group
- ☑ GRP_GrowthEffic
  - ☐ CIVIC
  - ☑ SCHOOLS
  - ☐ Sheriff
  - ☐ FireHouse
  - ☑ HOSPITAL
- ☐ ChipsPlayed
- ☐ RuralVillage
- ☑ Highway
- ☑ CountyBoundary
- ☑ CityLimits
- ☑ RCL
- ☐ Grid20
- ☐ GRP_ChipGameImages
- ☐ PlanningAreaLine

Active Scenario
ExCon

Modify
Assumptions   Start Edit   Attributes

View

Attributes of LOSpopDotModel

STATE_FIPS	CNTY_FIPS	STCOFIPS	TRACT	BLOCK	FIPS	POP2000	HSE_UNITS	HOUSEHOLDS	Jurisdicti	Dist2Shariff	Dist2FireStation	Dist2Highway	Dist2Hosp	Dist2Town	Dist2School	Dist2Roads
51	131	51131	990200	3001	511319902003001	176	78	67	County	28259.21	24718.48	2982.97	21944.93	20313.88	7498.05	1213.94
51	131	51131	990200	3000	511319902003000	157	69	61	County	32534.81	20393.30	2159.99	17641.77	15971.65	11516.17	1244.23
51	131	51131	990200	1027	511319902001027	116	46	44	County	26454.14	26779.85	3699.12	25263.82	23020.00	6536.66	1047.74
51	131	51131	990300	4000	511319903004000	333	74	66	County	22637.68	9220.91	8733.27	69612.31	5441.21	17584.21	1811.90
51	001	51001	990700	5038	510019907005038	144	69	63	County	79313.08	19138.71	16353.90	32580.61	13550.12	22892.94	5610.10
51	131	51131	990200	1025	511319902001025	119	58	49	County	30609.38	22720.76	1835.93	20213.39	18084.99	9506.74	107.26
51	131	51131	990300	2005	511319903002005	57	23	20	County	70330.92	41695.59	4687.98	116952.95	29915.43	33124.75	700.98
51	131	51131	990300	2022	511319903002022	99	46	40	County	54459.73	23770.71	4300.99	103094.37	11603.84	16447.77	627.19
51	131	51131	990300	3058	511319903003058	82	34	30	County	55933.28	27914.06	5459.08	102525.49	19835.96	19534.49	818.40
51	131	51131	990300	2006	511319903002006	57	27	22	County	67918.50	39082.62	3032.39	114902.58	27047.90	30500.65	1223.91
51	131	51131	990100	3019	511319901003019	94	44	37	County	57489.71	21753.12	22031.22	20952.01	18898.98	30577.78	1506.88

Record: 14 4   0   ▶ ▶1 Show: All Selected Records (0 out of 466 Selected.)   Options ▾

This Population Point data allows us to compute the average level of service for any/all public facilities and services. These calculations did not include citizen's that are presently living inside town city limits, only citizens living under county jurisdictions. Since all of these population points have potentially a different number of citizens that live on each block, the 'distance to' figures for each facility/service are normalized by the number of people to create a county 'average level of service'.

The Population Points are the most accurate data the US bureau of census has for where people live.

This information is block level data more accurate that block group polygon information. It includes Population (pop2000), housing units and households. With CommunityViz we attribute each point with distance to public facilities/service (for example schools, and access to highways, etc.)

The County Norms are created by computing the average for each type. The slider bar here depicts what that average is – and allow you to test the implication of changing this norms, if 'existing' is deemed to be inadequate.
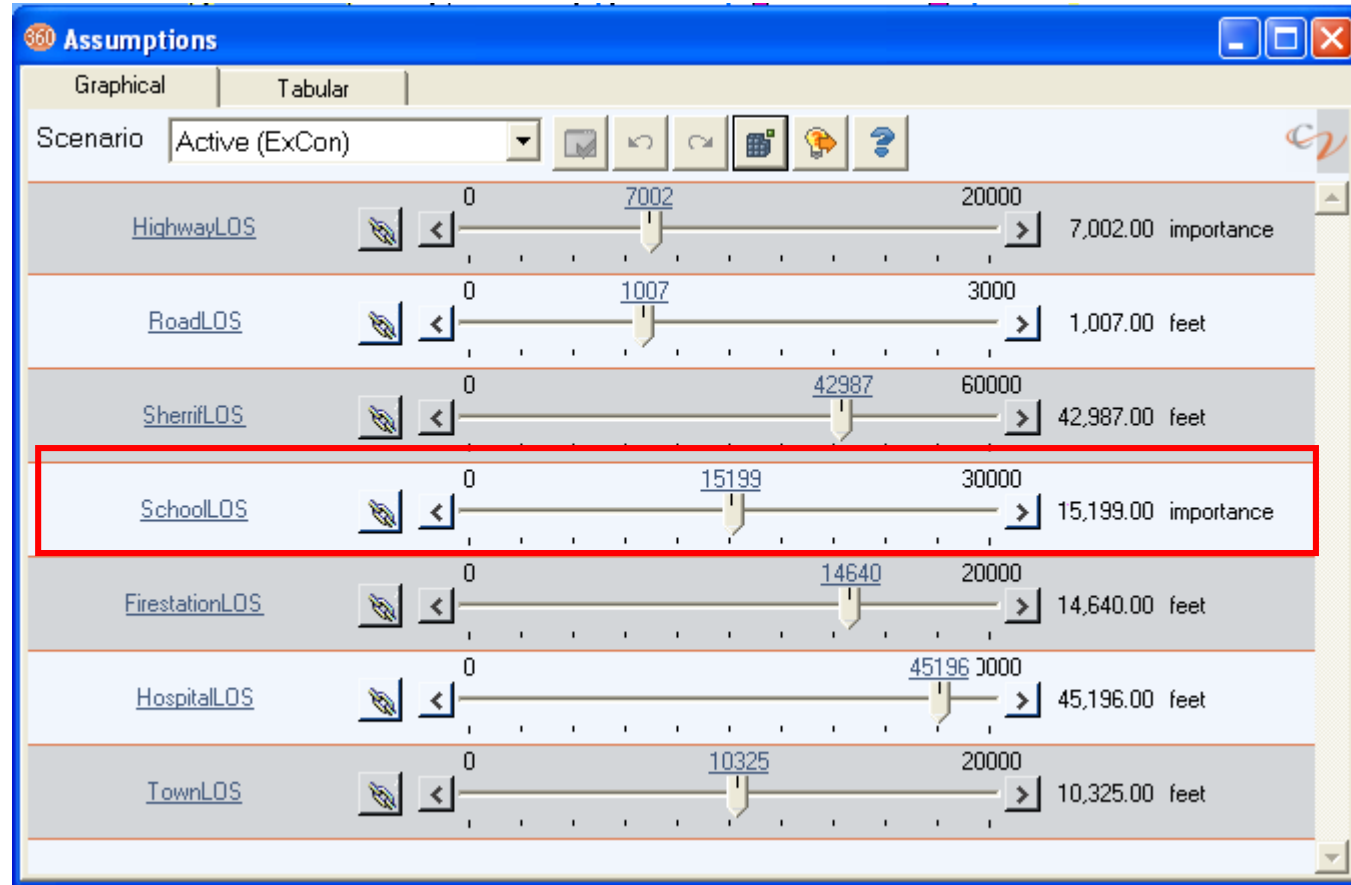
The average distance to schools for county residents is 15,199 feet. It is typical that citizens don't want future growth to diminish those norms – thus new schools should be provided for parts of the county that are 'below the LOS'.
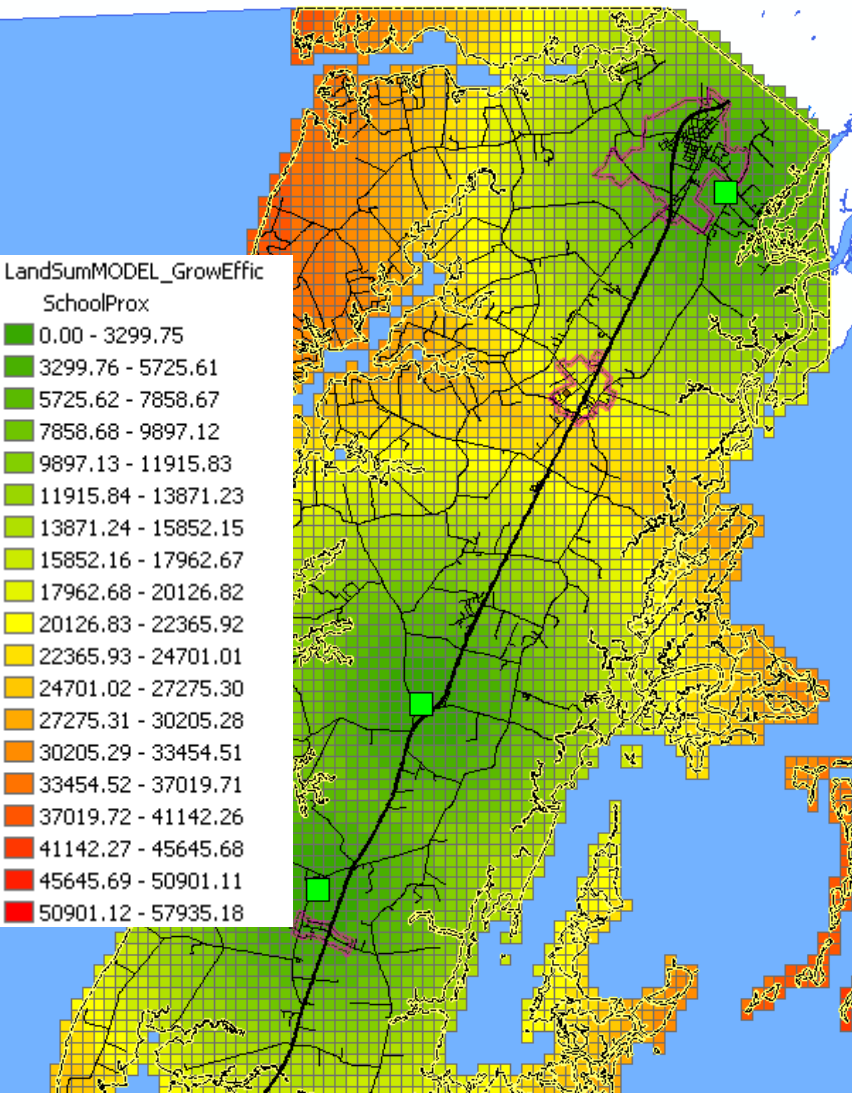
This grid is the 'chip game grid' (20 acres) and it too knows how close they are schools, roads, police, etc. The legend is in feet from school. If the LOS for School proximity is 15,199' then we can also predict what lands and how many citizens are above or below the County School LOS Norm.
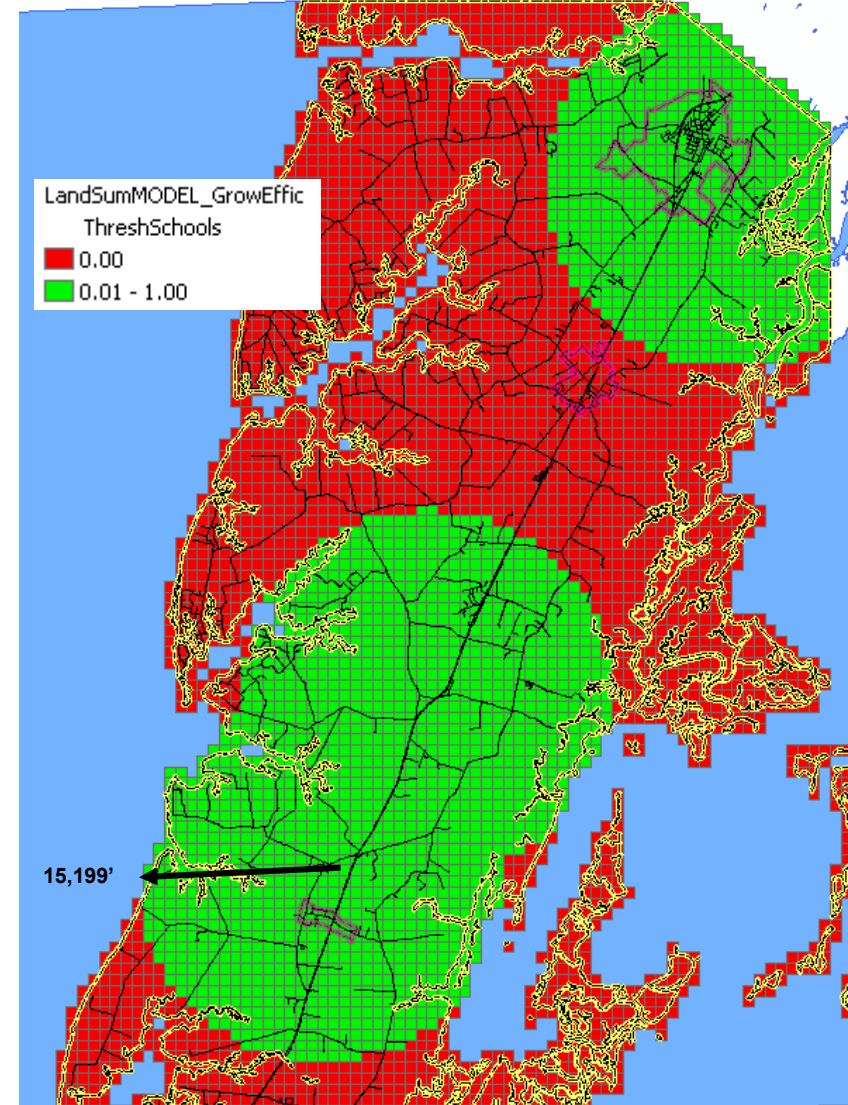
The 'green' areas above are lands within 15199' of schools, thus development that occurs in the 'green' would not diminish the 'school LOS norm' in Northampton county. While development in the 'red' that didn't include a school would increase the average distance to schools, thus diminish existing service thresholds.

Since provision of public services is one of the major roles of local government, it is critical to know what the existing service thresholds are. If it is desirable future development to 'pay its own way', and not diminish existing levels of service, these thresholds can be used to monitor the impacts of proposed development on public facilities and services.
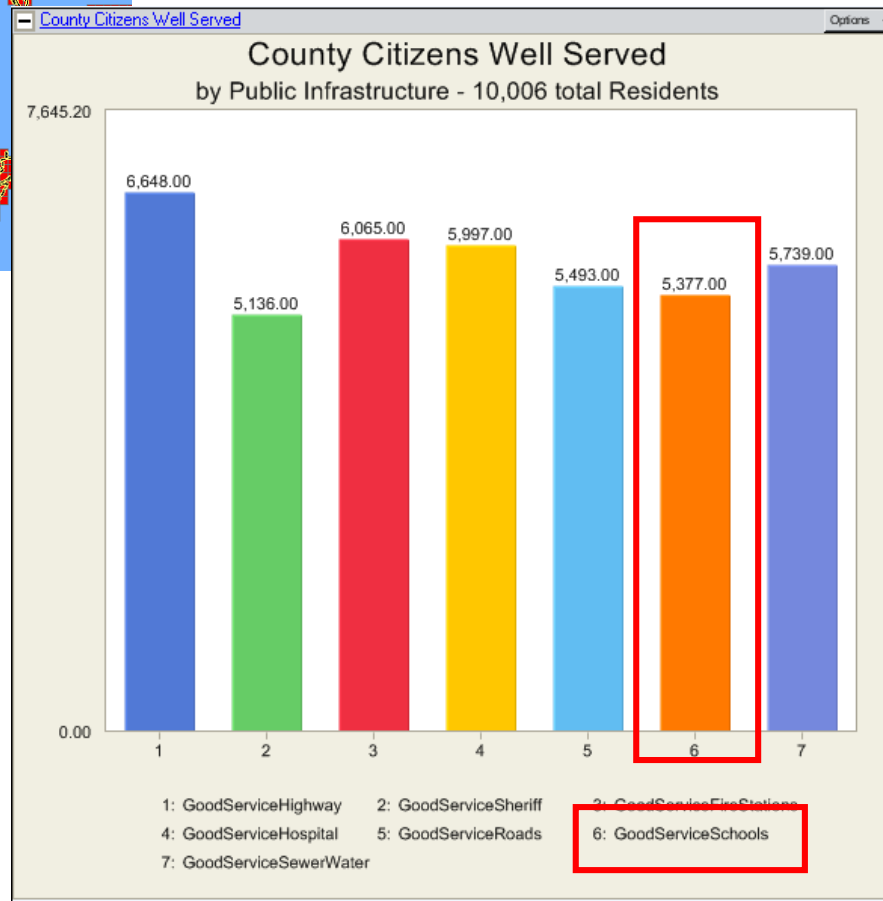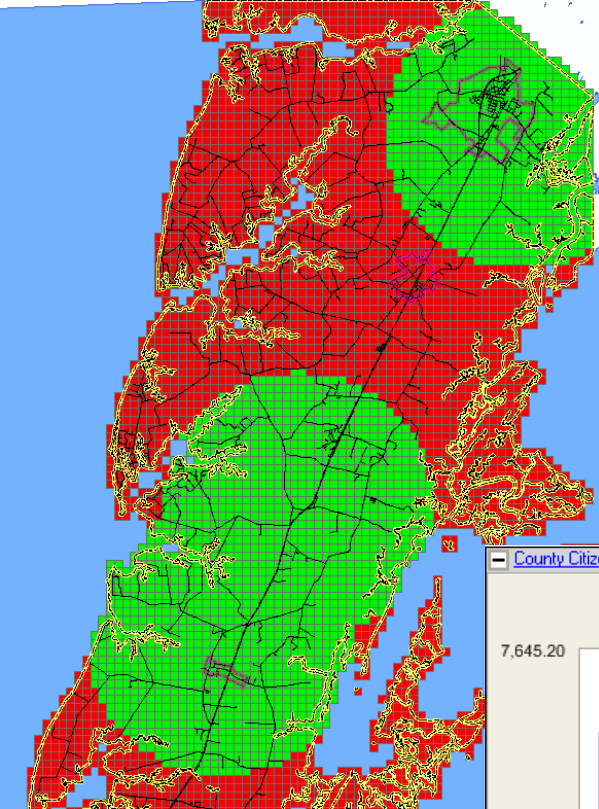
The chart on the left depicts the citizens that are above county wide LOS for various facilities and services. This chart reveals that 5,377 of the county's 10,006 residents are 'well serviced' today by schools. Is that adequate – if so, should that standard be maintained?
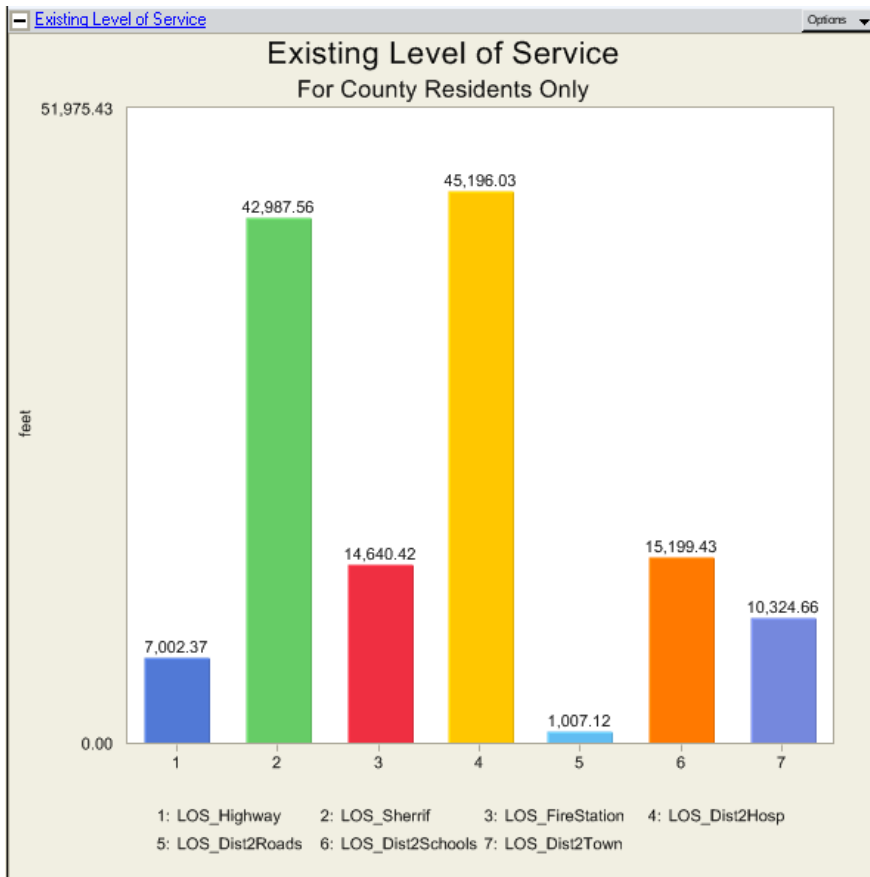
The chart on the left depicts the Level of Service proximity for many of the key pubic facility and services (for county residents only). While the cart below summarizes the number of existing county citizens that are well serviced for each element.

This Accumulative LOS ranking depicts the most efficient places for supporting future growth. The areas that are above the County LOS norm are assigned a '1', while below is assigned a '0'. Areas that have '7' are above the LOS norm for all elements tested. The placement of chips during the charrette were analyzed for 'growth efficiency' against this map.

Add these columns together to create LOS_Cummulative

ThreshSherrif	ThreshHighway	ThreshTown	ThreshFireStations	ThreshHospital	ThreshRoads	ThreshSchools	LOS_Cummulative
1.00	1.00	1.00	1.00	1.00	1.00	1.00	7.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	7.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	7.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	7.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	7.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	7.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	7.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	7.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	7.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	7.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	7.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	7.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	7.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	7.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	7.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	7.00
1.00	1.00	1.00	1.00	0.00	1.00	1.00	6.00
1.00	1.00	1.00	1.00	0.00	1.00	1.00	6.00
1.00	1.00	1.00	1.00	0.00	1.00	1.00	6.00
1.00	1.00	1.00	1.00	0.00	1.00	1.00	6.00
1.00	1.00	1.00	1.00	0.00	1.00	1.00	6.00
1.00	1.00	1.00	1.00	0.00	1.00	1.00	6.00
1.00	1.00	1.00	1.00	0.00	1.00	1.00	6.00
1.00	1.00	1.00	1.00	0.00	1.00	1.00	6.00
1.00	1.00	1.00	1.00	0.00	1.00	1.00	6.00
1.00	1.00	1.00	1.00	0.00	1.00	1.00	6.00

Attributes of LandSumMODEL_GrowEffic

LandSumMODEL_GrowEffic
LOS_Cummulative
- 0.00
- 0.01 - 1.00
- 1.01 - 2.00
- 2.01 - 3.00
- 3.01 - 4.00
- 4.01 - 5.00
- 5.01 - 6.00
- 6.01 - 7.00

Record: 0   Show: All Selected   Records (0 out of 8060 Selected.)   Options