

Future Year Input WORKSHOP

(No Strings Attached)

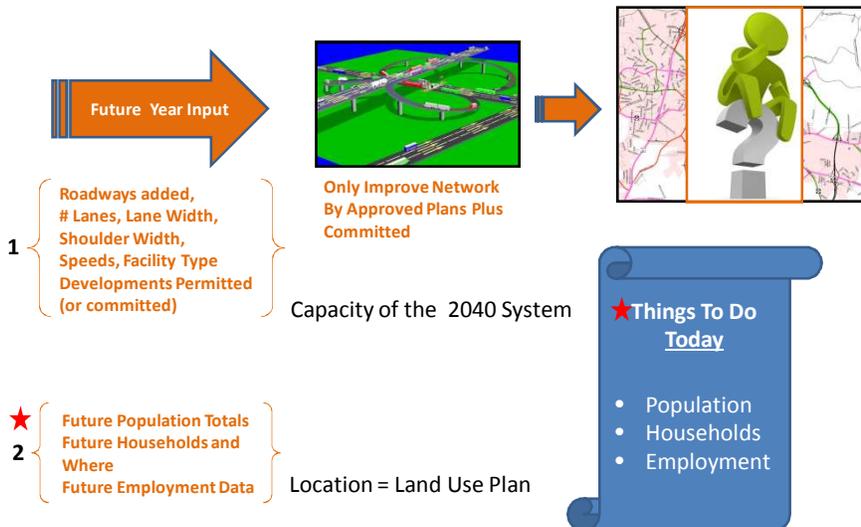


Developing 2 Aspects of the Model's Capabilities

- It is a mathematical approach to understanding *how changes in land use, population, and area employment will impact the transportation system.*
- It is *a way to measure the future impacts of growth and development by examining the limits of the existing infrastructure.*

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Workshop Purpose: Developing the "2040 No Build" Scenario



2

Method to the Madness A Guide to the Future



What we are going to do with it



As Requested:

- We Have Developed a Guideline for Your Convenience.
- Compiled Local Data Provided by TCC Members
- Mapped Data For Your Convenience and Review

Materials:

- Provided by planning jurisdiction (12 including the county).
- Local technical staff provided preliminary data
- Using the materials associated with your planning jurisdiction
 - Review with TCC members
 - Go through the planning process
 - Adjust any data as per break- out group or MCTC discussion
 - Assign growth values for Low, Medium, and High
 - Approve control totals for CTP team to move forward

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Materials – Handouts

Section 1 – References
 Agenda
 Summary of Significant Events
Appendix E – Employment Breakdown by Type

What's in it?



SIC	NAICS	NAICS Description	NAICS Code
20	20	Agriculture, Forestry, Fishing and Hunting	20
21	21	Mining, Quarrying, and Oil and Gas Extraction	21
22	22	Utilities	22
23	23	Construction	23
24	24	Manufacturing	24
25	25	Retail Trade	25
26	26	Wholesale Trade	26
27	27	Transportation and Warehousing	27
28	28	Information	28
29	29	Automotive and Other Motor Vehicle Parts	29
30	30	Food and Beverage Drinking Places	30
31	31	Accommodation and Food Services	31
32	32	Health Care and Social Assistance	32
33	33	Arts, Entertainment, and Recreation	33
34	34	Other Services (except Public Administration)	34
35	35	Administrative and Support and Waste Management and Remediation Services	35
36	36	Management of Companies and Enterprises	36
37	37	Real Estate and Rental and Leasing	37
38	38	Finance and Insurance	38
39	39	Other Activities	39
40	40	Government Administration	40
41	41	Education	41
42	42	Health Care	42
43	43	Arts, Entertainment, and Recreation	43
44	44	Other Services (except Public Administration)	44
45	45	Administrative and Support and Waste Management and Remediation Services	45
46	46	Management of Companies and Enterprises	46
47	47	Real Estate and Rental and Leasing	47
48	48	Finance and Insurance	48
49	49	Other Activities	49
50	50	Government Administration	50
51	51	Education	51
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53	53	Arts, Entertainment, and Recreation	53
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95	95	Administrative and Support and Waste Management and Remediation Services	95
96	96	Management of Companies and Enterprises	96
97	97	Real Estate and Rental and Leasing	97
98	98	Finance and Insurance	98
99	99	Other Activities	99

As we review the data in your packages, we are going to think about growth in terms of jobs.

Because different types of jobs generate different kinds of trips, the model breaks them down into categories which have codes that Techni-Geeks use working with the model.

For our purposes, the column with the general terms works just fine, but both terms and codes can be found here by Employment Type.

So, if you are thinking about how many new jobs, it is helpful to think about what kind of businesses will be added by the end of the study period.

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Materials – Handouts Cont...

Future Scenario
Control Totals

The following information was taken from the **Draft Moore County Land Use Plan**, dated February 25, 2010. Based on current population growth rates of **1.8%** and the projections from:

the North Carolina Office of State Budget and Management (OSBM):

1. Moore County is projected to grow by over **28,000** people by 2030.
2. Using the current rate of **2.35** persons/household, this would require a total of **12,000** new residential units by 2030.
3. To maintain the growth rate, **9,400** new non-residential jobs and **1,600** new industrial jobs would have been created.

Control Inputs	2010	Total Increase	2030	Employment Only % of Total	Committed Developments	Unassigned
Population	88,247	28,000	116,247			
Households		12,000			5,957	6,043
Hotels						
Employment						
Industry		1,500		23%		
Retail				17%		
Heavy Retail				14%		
Service		9,400		35%		
Bus. Employment				2%		
Hotel Employment				7%		
Commuting workers into Moore County	1,100					

Section 1 – References

- Agenda
- Summary of Significant Events
- Appendix E – Employment Breakdown by Type
- Control Totals**

- Main Goals for the day are to decide 2 things for 3 categories:
- How much growth?
 - Where does it occur?

At the February 6th MCTC meeting we talk about the following:

- Importance of consistency between Moore County’s Land Use Plan and the CTP.
- NCDOT recommended using 2030 projections as approved and used in the Land Use Plan and an interim out put year, 2030 for the model runs.
- Need to answer the Question: **Does the MCTC want to adopt this data for use in the Moore County Travel Demand Model?**



What Does that Mean for the Model?

Future Scenario
Control Totals

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Annual Population Growth Rate = 1.8 %
 Total Population Growth = 28,000 people.
 Total 2030 Households = 12,000 HHs
 Total Employment = 10,900 New jobs
 1,500 Industry
 9,400 Non-Industrial

Control Inputs	2010	Total Increase	2030	Employment Only % of Total	Committed Developments	Unassigned
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Hotel Employment				7%		
Commuting workers into Moore County	1,100					



If yes, then....

- Step 1 is to decide on a base number for total growth for Pop, HHs, Emp.
- Step 2 is identify where you know growth will occur. **Subtract it out of the control.**
- Step 3 the model will distribute the remainder as designated in each TAZ.

If no, then tell me what to change.

Name of Project	Dwelling Units
Stonehill Pines	1050
Roadforest PUE-H	1000
SE Ransdell MP Comm	1000
Mace/Dr. Martin	420
Pinehurst C/ The PR Golf Links	300
Sandy Springs	299
Arden	250
Dormie Club	250
Foster Land	250
The Bluffs Residential Development	200
Heron's Brook (95.4 ac)	189
Royal Woods Phases 3 through 7 (289.4 total ac.)	109
Lecky Upchurch Land	100
Morrison Blvd and 890	100
PRO Golf Resources	100
Forest Hills West	85
The Fields	80
Devonshire	45
Glen Laurel Ph V	38
Pineview Ph IV	35
Laurelwood Phase 7 (27.4 ac.)	29
Midway Gardens	21
Former Seven Lakes Dr. King	18
Anchor Seven LLC	10
Kirby Development	10
The Meadows	7
ADGT Development on Hickory Tavern site	0
CAROLINA EYE EXPANSION	0
Center of St. Magdalene	0
Cracker Barrel Restaurant	0
Dollar General (Londell)	0
FIRSTHEALTH HOSPITALITY HOUSE	0
Food Lion Shops (8 20x60 inline retail still empty)	0
Forest Creek	0
Forest Ridge	0
Former Days Inn/Bill Smith Office Project	0
Former Knight Site (Commercial) Retail	0
HALL OF FAME	0
HARRIS BLAKE OFFICE PLAZA	0
Harris Tester Grocery Store Plaza (near MC Airport)	0
HOSPICE CARE FACILITY	0
Lecky Lakes	0
LINDEN CLOS, LLC	0
Linie River Farm	0
LOCALS BY SUBDIVISION	0
Mellow Mushroom Restaurant	0

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 Control Totals
List of New and Proposed Developments and Number of Units



Total – 5,957 Units

- Step 1 is to decide on a base number that will represent.
- Step 2 is identify where you know it will grow. **Subtract it out of the control.**
- Step 3 the model distributes the remainder as designated in each TAZ.

If no, then tell me what to change.

Section 2 – Local Data

Planning Jurisdiction Survey

Environmental Indicators by TAZ Spreadsheet
 Population and Employment by TAZ Spreadsheet

2/22/2013

Survey of General Planning Jurisdiction Characteristics

In the development of a guidance document for the MCTC and stakeholders for our March 13, 2013, workshop, we would greatly appreciate the input of local planning staff in the assessment of their specific planning jurisdictions by Traffic Analysis Zones (TAZ) developed in the Moore County travel demand model. Please follow the guide below in the provision of information about your jurisdiction's anticipated future growth and development based on known and existing data, policy, and infrastructure limitations. Any additional information about special circumstances and areas that you believe need a more regional approach to these assessments are also appreciated.

This survey includes general questions about your jurisdiction and the data-based expectations for future growth and development; spreadsheet assessment of characteristics present in each TAZ, and a separate spreadsheet that should be the summary estimate of expected growth inside each TAZ in the following categories:

Population Total
 Households Total
 Employment Total

Industry
 Retail
 Hwy Retail
 Services
 Service
 Office
 Rec_Emp
 Hotel_Emp

Thank you for your participation and collaborative efforts in the development of the Moore County Travel Demand Model (TDM).

Questionnaire queries:

- Local demographics,
- Growth rate trends,
- Expected changes,
- New Developments,
- Special generators, and
- Future expectations.



Section 2 – Local Data

Planning Jurisdiction Survey
Environmental Indicators by TAZ Spreadsheet
 Population and Employment by TAZ Spreadsheet

A series of maps and two spread sheets were provided to TCC members to capture information that impact growth:
Infrastructure and Availability of Developable Land by TAZ

- Access to Water and Sewer
- Environmental Features that impact density and zoning
- Built Environmental Features and Expected Development



Note the following criteria should be considered for consistency: Keep Answers concise providing a number where applicable (Density) and Yes/No where possible. Water and Sewer should be answered as 'yes' if the TAZ falls within 300' of access.

ENTITY	TAZ	Access to Water and Sewer	Critical Watershed	Voluntary Agricultural District	Density	Zoning Issues	2030 Proposed Special Generator	Additional Comment	Identified for Group Discussion
COUNTY VASS	122	Access		No*	High	New Retail, school, church, high school		Check current employment #'s	Yes
COUNTY VASS	200	Access		Yes	Medium, (200/acre)	FLOODPLAIN	Hwy interchange	Check current employment #'s	
COUNTY VASS	202	No Access		Yes	Low			Check current employment #'s	
COUNTY VASS	203	Access		No	High	R&R HISTORIC		Check current employment #'s	
COUNTY VASS	204	Access		Yes	Medium, (200/acre)		Hwy interchange		
COUNTY VASS	205	Access		No	Low	R&R HISTORIC	Hwy interchange		
COUNTY VASS	207	Access		Yes	Medium, (200/acre)	RR			
COUNTY VASS	239	Access	Yes	Yes	Low	HISTORIC		Check current employment #'s	
CARTHAGE VASS	241	Access		Yes	Medium, (200/acre)		School		
COUNTY VASS	249	Access	Yes	Yes	Medium, (200/acre)	FLOODPLAIN	School & Park		

Section 2 – Local Data

Planning Jurisdiction Survey
Environmental Indicators by TAZ Spreadsheet
Population and Employment by TAZ Spreadsheet

Still about Infrastructure, Availability of Developable Land, and Trends

- Growth and Decline Trends for Population and Households
- Employment Breakdowns by Category and by TAZ.

Hint: For employment, identify if the TAZ has industrial, residential, and/or commercial property using the Zoning and Density Map. For example, if there is industrial, then the likelihood of growth in that TAZ is strong for industrial for the next 20-30 years. It is up to each jurisdiction to estimate low, medium, or high as well as what that means in terms of a defined value for the specific planning area.

POPULATION HOUSEHOLDS EMPLOYMENT

ENTITY	TAZ	2010 Population	2010 Household	2010 Employment	2010 Population Growth	2010 Household Growth	2010 Employment Growth	2010 Population Change	2010 Household Change	2010 Employment Change	2010 Population Density	2010 Household Density	2010 Employment Density	2010 Population Change	2010 Household Change	2010 Employment Change	2010 Population Density	2010 Household Density	2010 Employment Density
COUNTY		122	200	202	203	204	205	207	239	241	249								
VASS		122	200	202	203	204	205	207	239	241	249								
CARTHAGE		241	249																

Section 3 – Maps

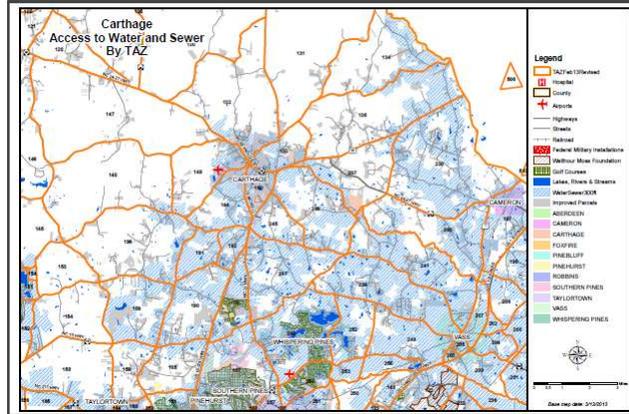
Access to Water and Sewer

Environmental Indicators

Zoning and Density

Area Developments

Land Identified for Avoidance



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Section 3 – Maps

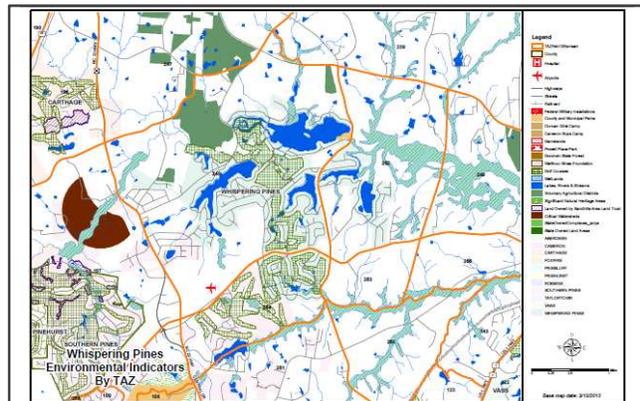
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Area Developments

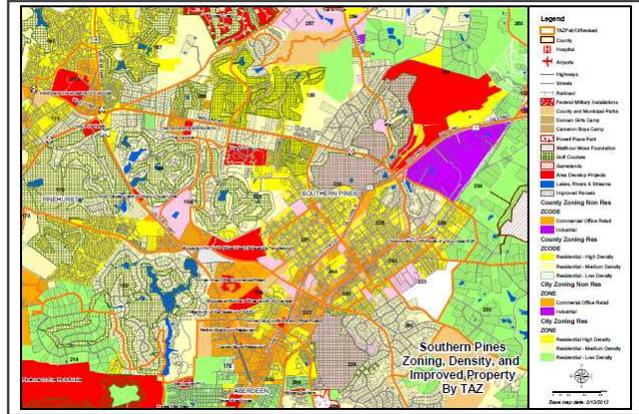
Land Identified for Avoidance



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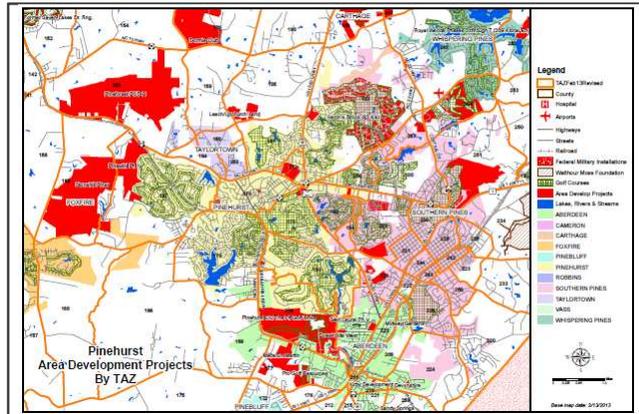
Section 3 – Maps

Access to Water and Sewer
 Environmental Indicators
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 Land Identified for Avoidance



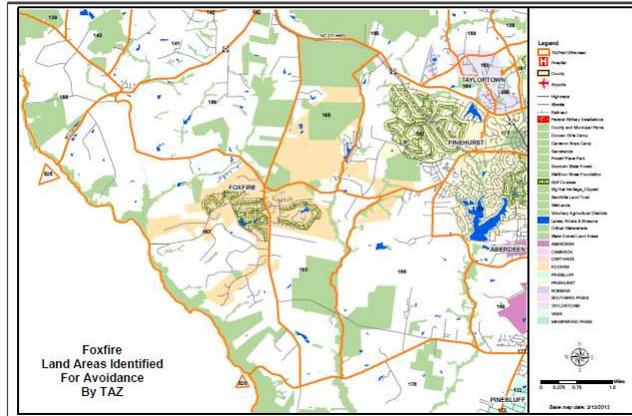
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Access to Water and Sewer
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Section 3 – Maps

- Access to Water and Sewer
- Environmental Indicators
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- Land Identified for Avoidance**



Future Scenario Workshop Exercise



Part 1: Break-out By Planning Jurisdiction

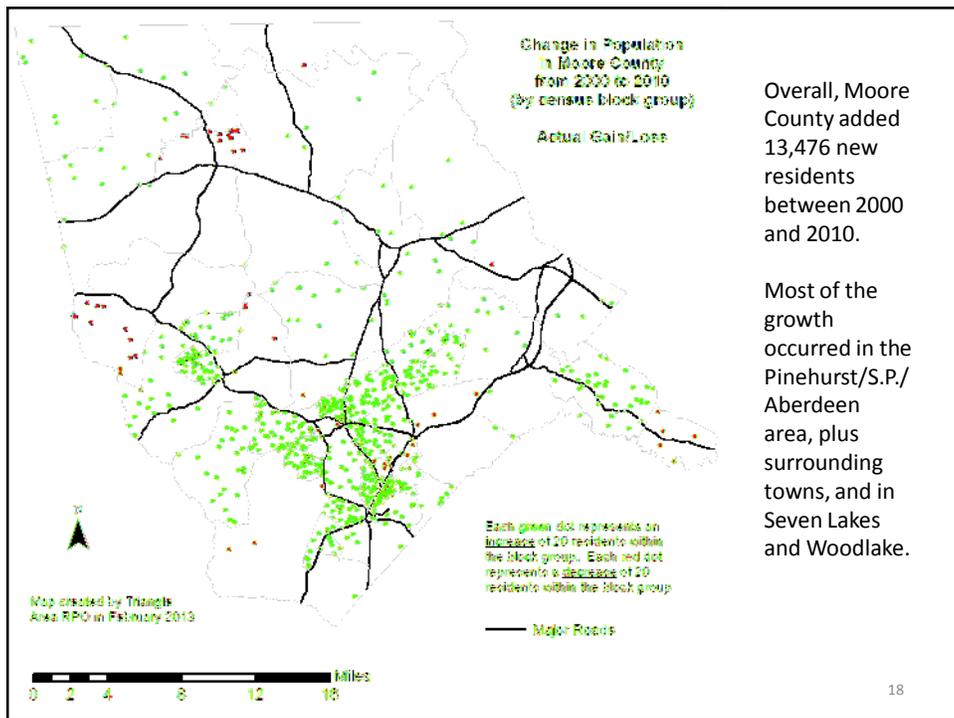
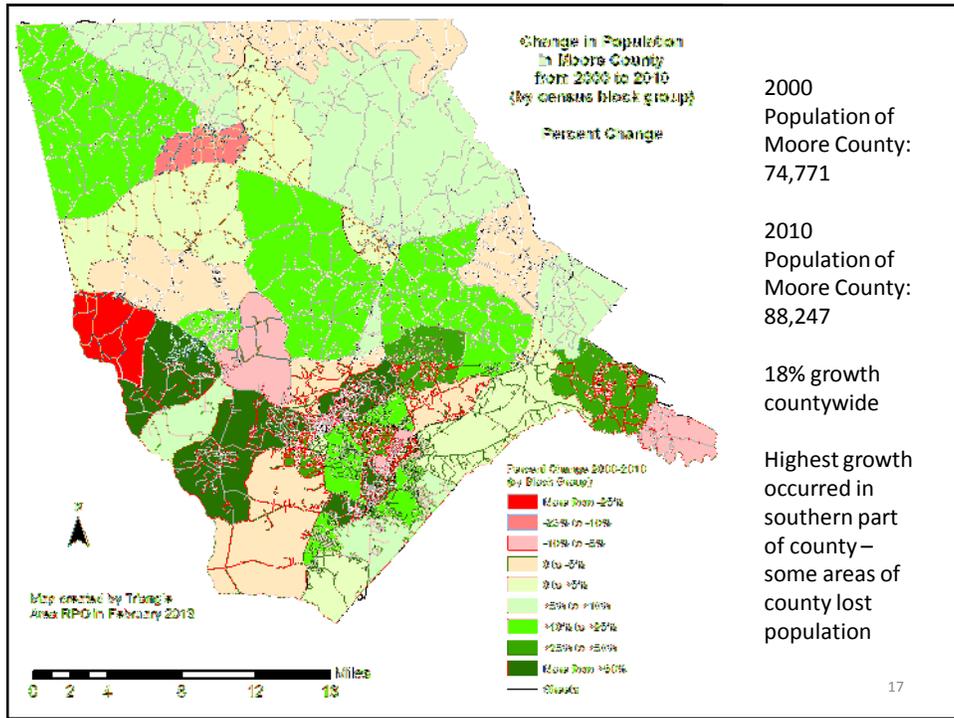
- Review input data from survey and spreadsheets
- Adjust answers where needed
- Identify TAZs for Group Discussion
- Determine value you want to assign to growth ranges – High, Medium, Low. This can be in terms of percentage or a specific number.

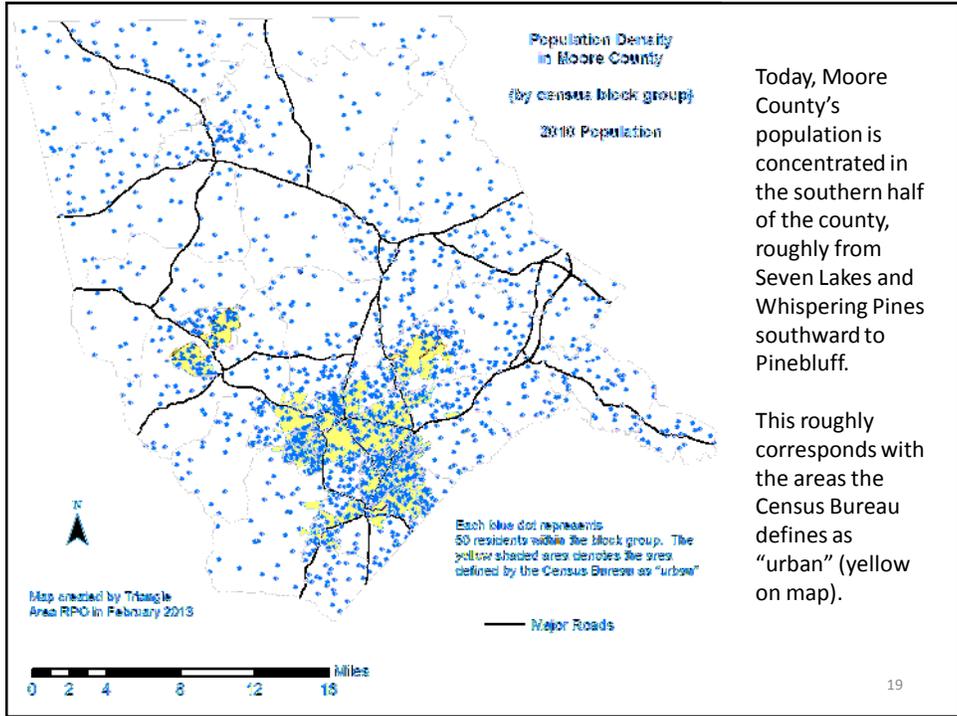
Part 2: MCTC Group Discussion on Shared Jurisdiction TAZs and Other Concerns

- Add TAZs for discussion on Discussion Pad
- Discuss values assigned for growth range and **Control Totals**
- Share comments and insight

Part 3: MCTC Group Confirmation on Growth Rates and Criteria for Future SE Inputs

- Confirm Annual Growth Rate at **1.8 %**
- Confirm Control Totals to be used in the model
 - Population – 28,000**
 - Households – 12,000**
 - Employment – 1,500 Industrial and 9,400 Non-industrial**
 - Distribution by numbers or proportionality.**





Today, Moore County's population is concentrated in the southern half of the county, roughly from Seven Lakes and Whispering Pines southward to Pinebluff.

This roughly corresponds with the areas the Census Bureau defines as "urban" (yellow on map).