

## **2040 MTP and CTP Alternatives – Isochrones**

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### **Purpose of Isochrone Maps**

Isochrone travel maps connect the points that have the same travel time from a specified center. They resemble contour maps. They are useful for illustrating the mobility from a specified center and for showing the labor, retail, residential and other markets in terms of travel time. These maps are based the average travel time for the afternoon peak period, which occurs from 3:30pm to 7:30pm. The four specified locations and presentation order are:

- Downtown Durham
- Carrboro/Chapel Hill
- Research Triangle Park, and
- Downtown Raleigh

These centers attract a significant portion of the travel demand in the region. Therefore, it is important to understand the impact that each Alternative has on the travel markets for these centers.

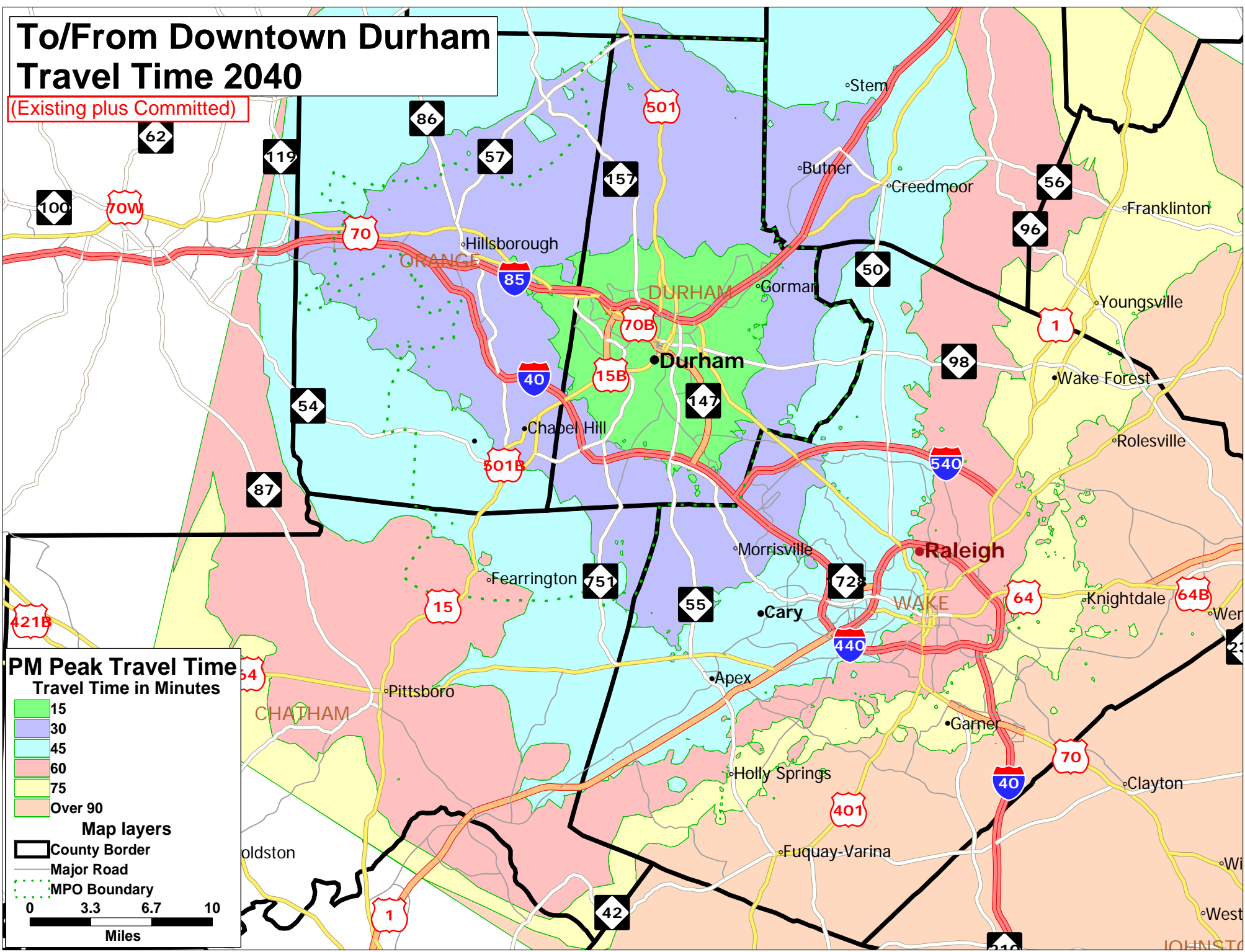
### **Presentation of Travel Time Measure**

This section presents the set of four Isochrone maps by Alternative in the following order:

- E+C
- Highway Intensive/CommPlan
- Moderate/CommPlan
- Moderate/All-in-Transit
- Transit Intensive/CommPlan (will be added by 8/24/12)
- Transit Intensive/All-in-Transit

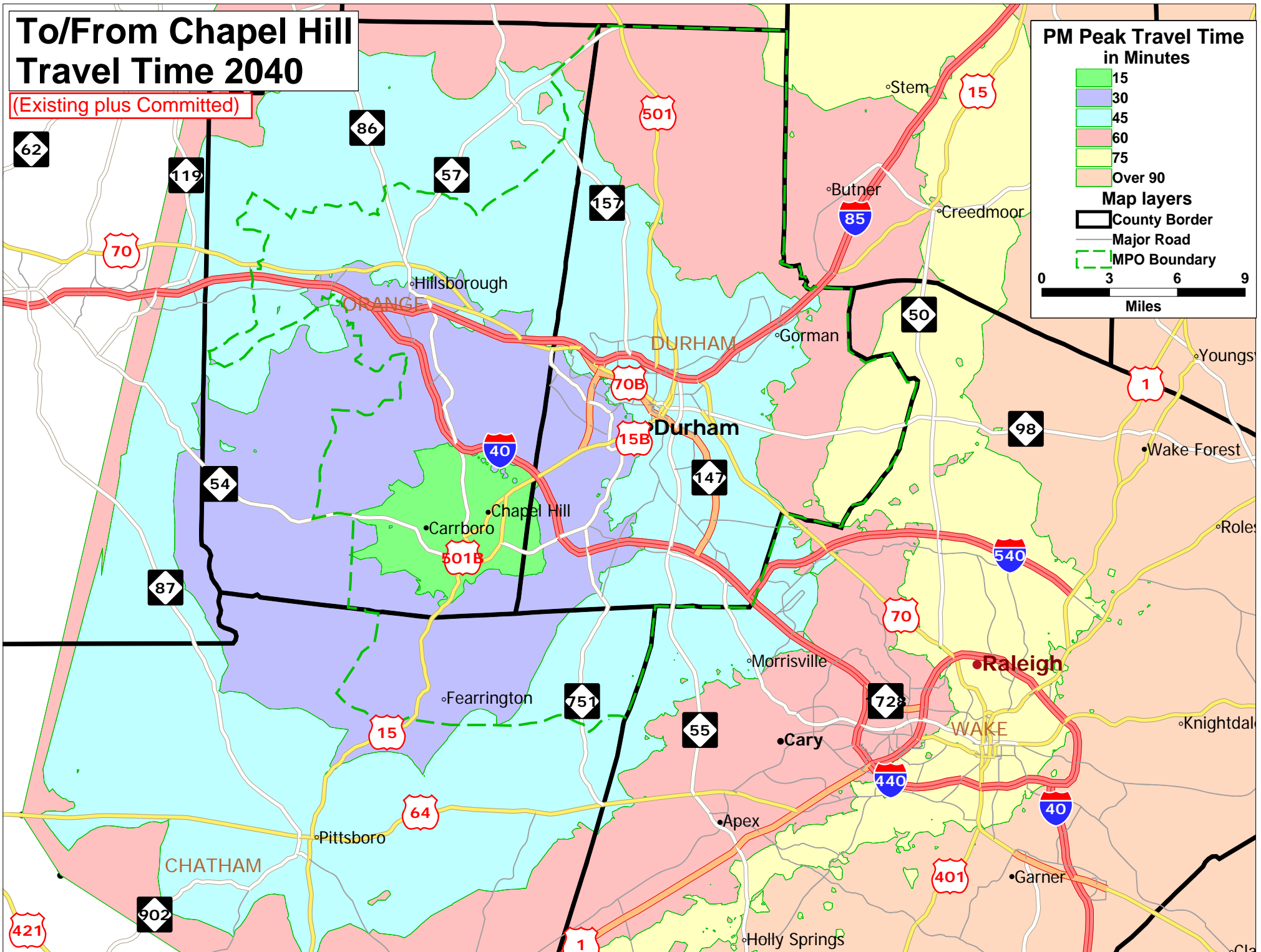
# To/From Downtown Durham Travel Time 2040

(Existing plus Committed)



# To/From Chapel Hill Travel Time 2040

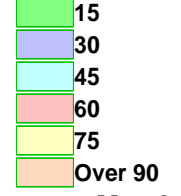
(Existing plus Committed)



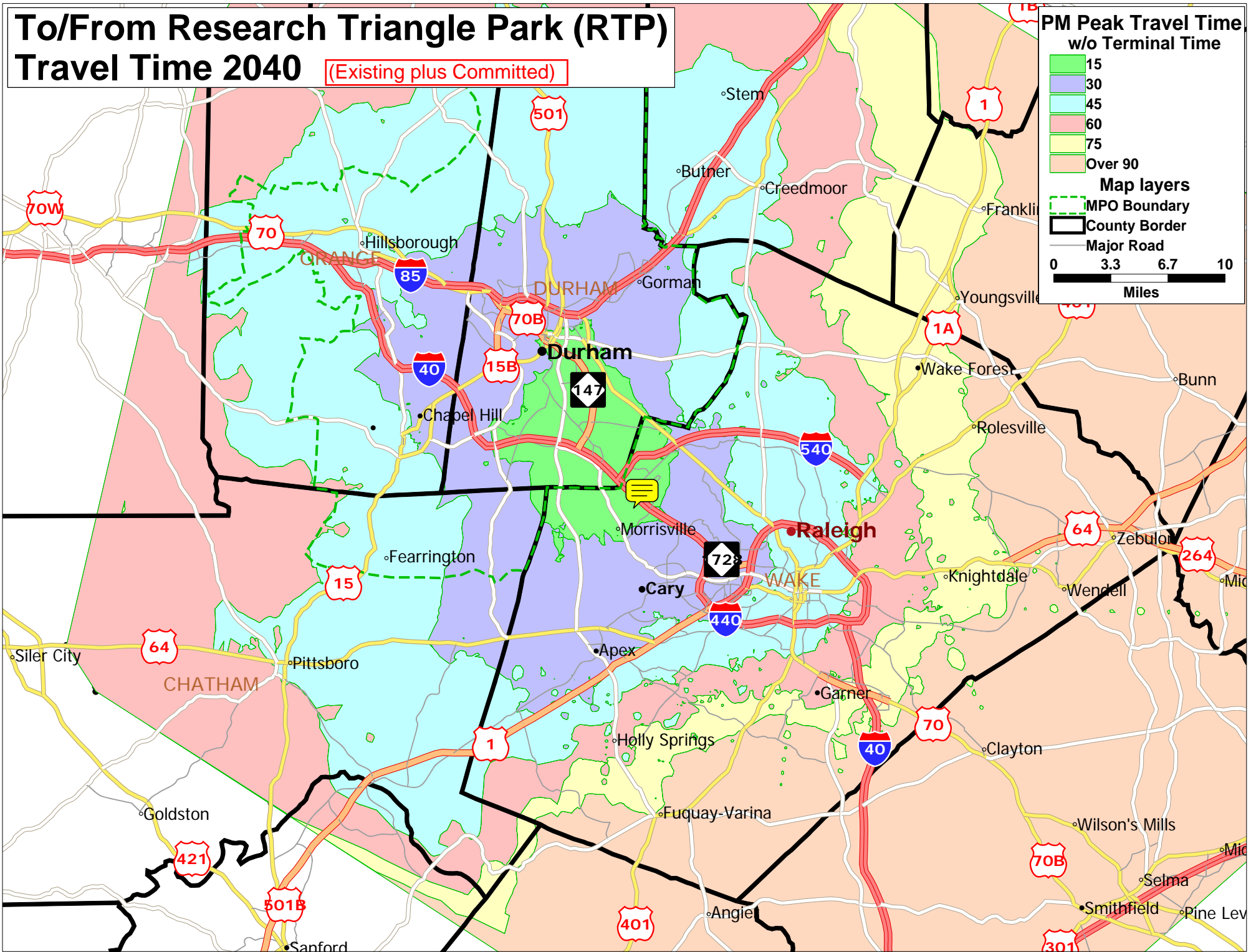
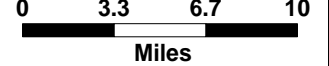
# To/From Research Triangle Park (RTP) Travel Time 2040

(Existing plus Committed)

PM Peak Travel Time  
w/o Terminal Time

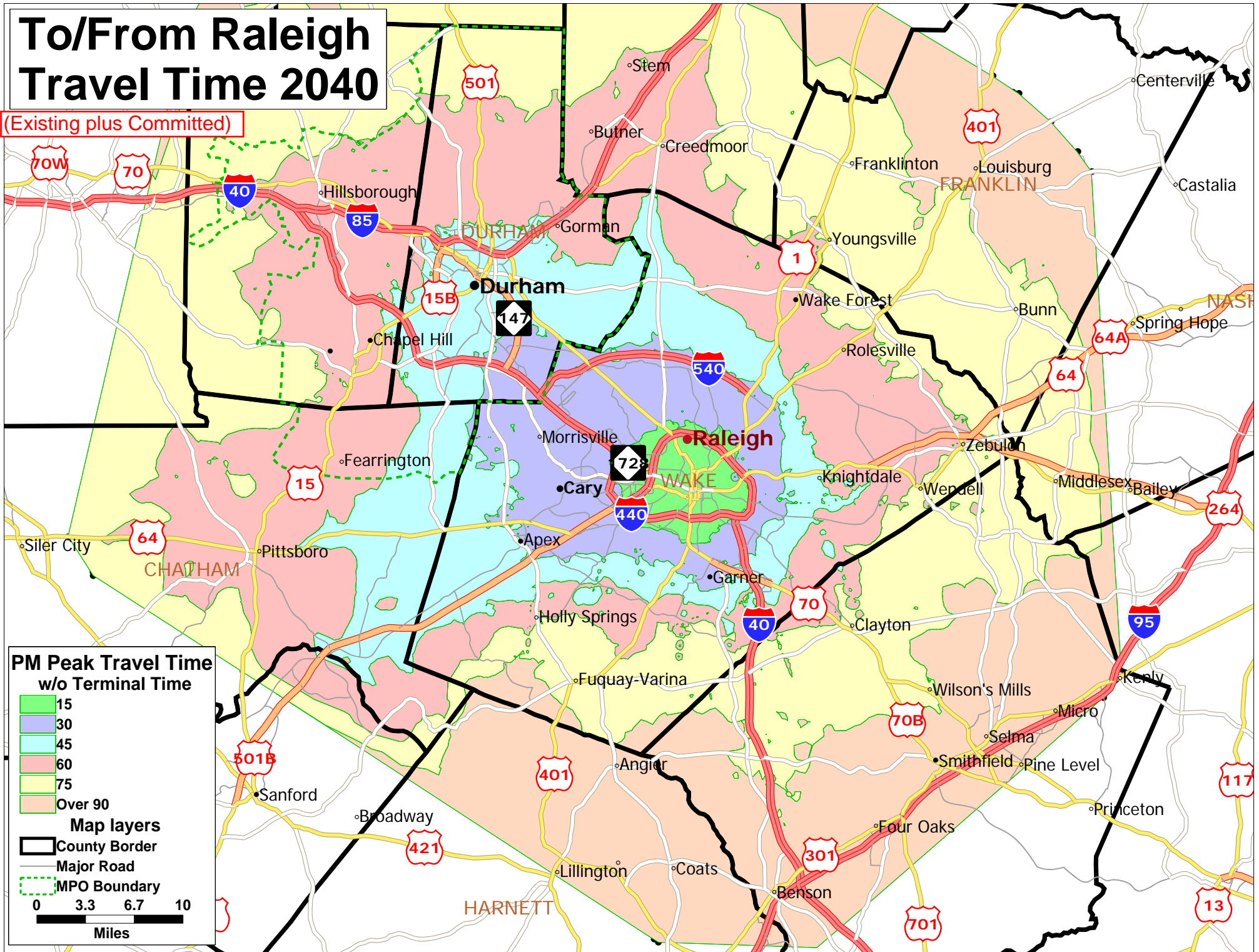


**Map layers**  
 - MPO Boundary (dashed green line)  
 - County Border (thick black line)  
 - Major Road (thin grey line)

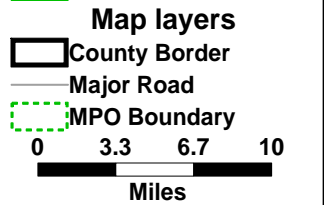
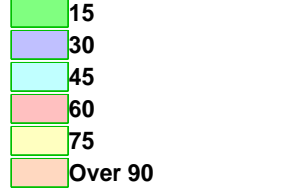


# To/From Raleigh Travel Time 2040

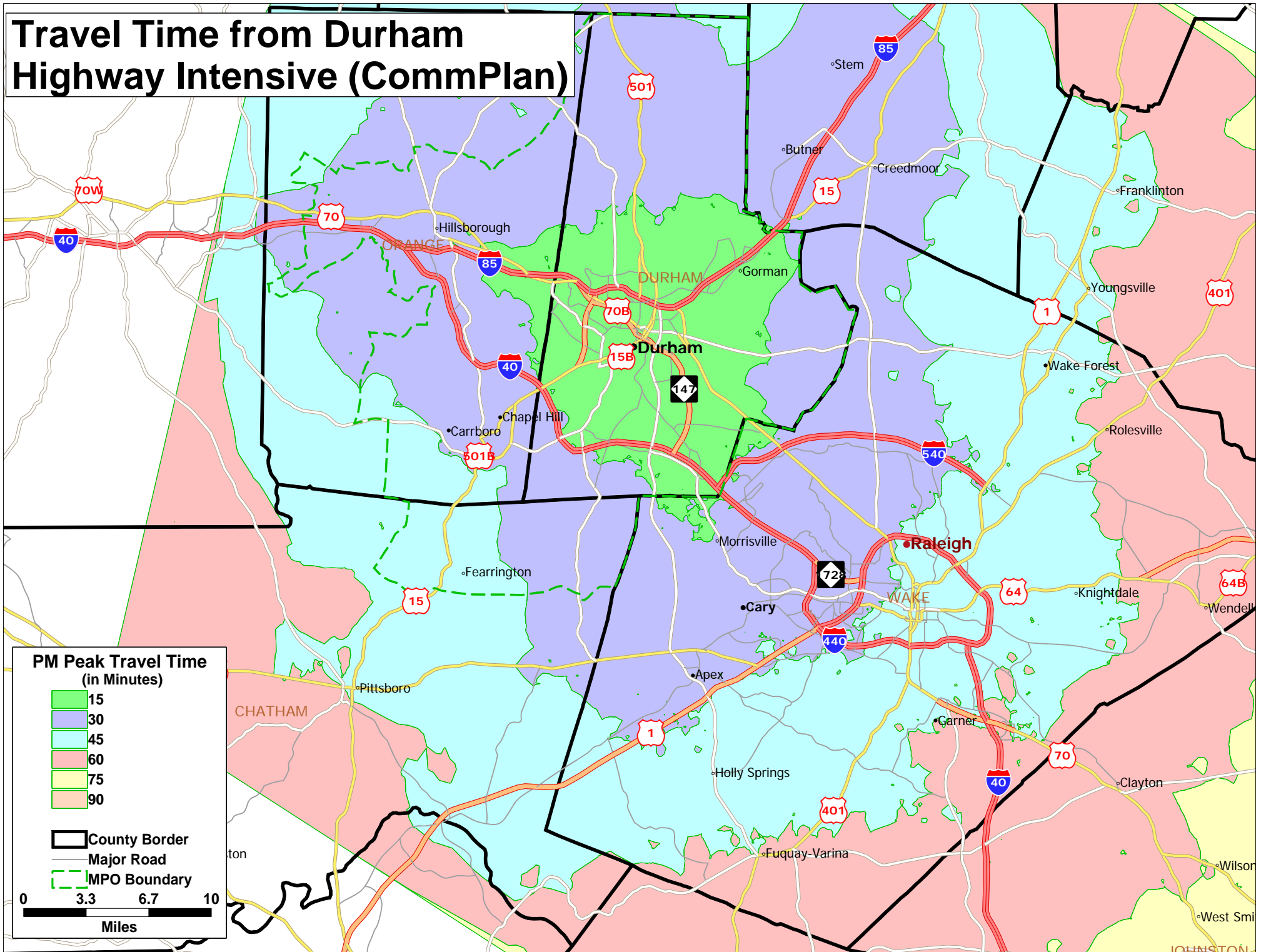
(Existing plus Committed)



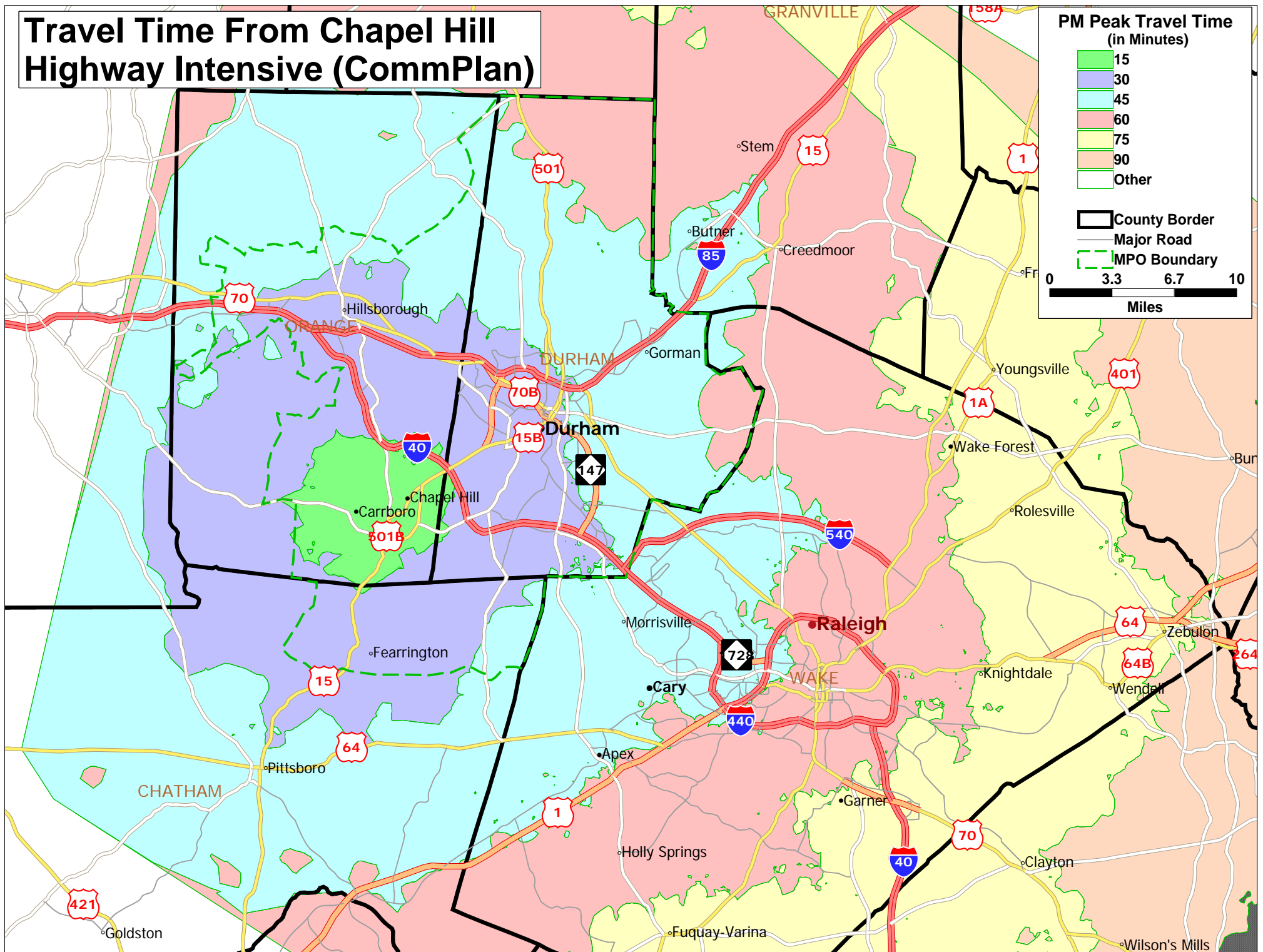
## PM Peak Travel Time w/o Terminal Time



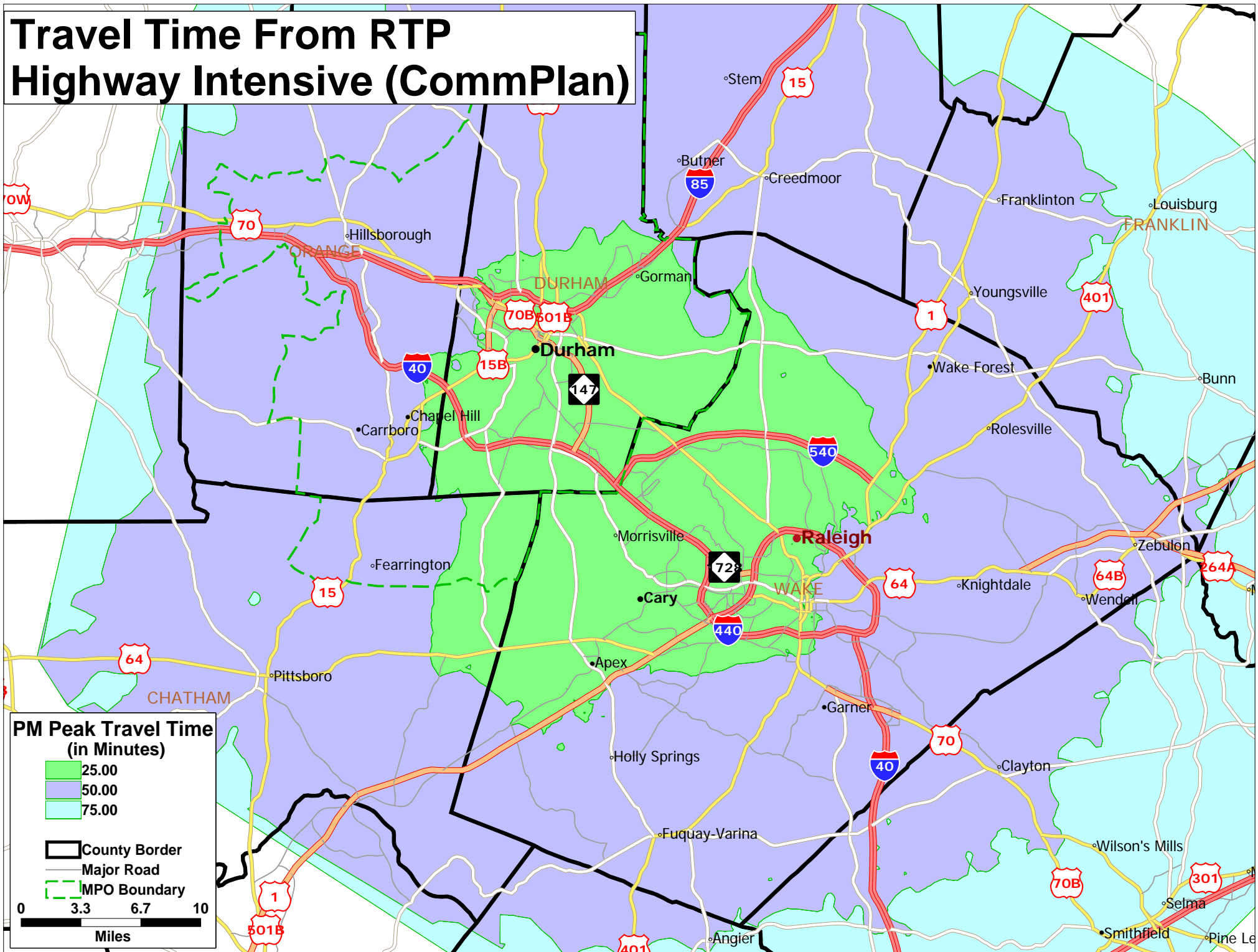
# Travel Time from Durham Highway Intensive (CommPlan)



# Travel Time From Chapel Hill Highway Intensive (CommPlan)



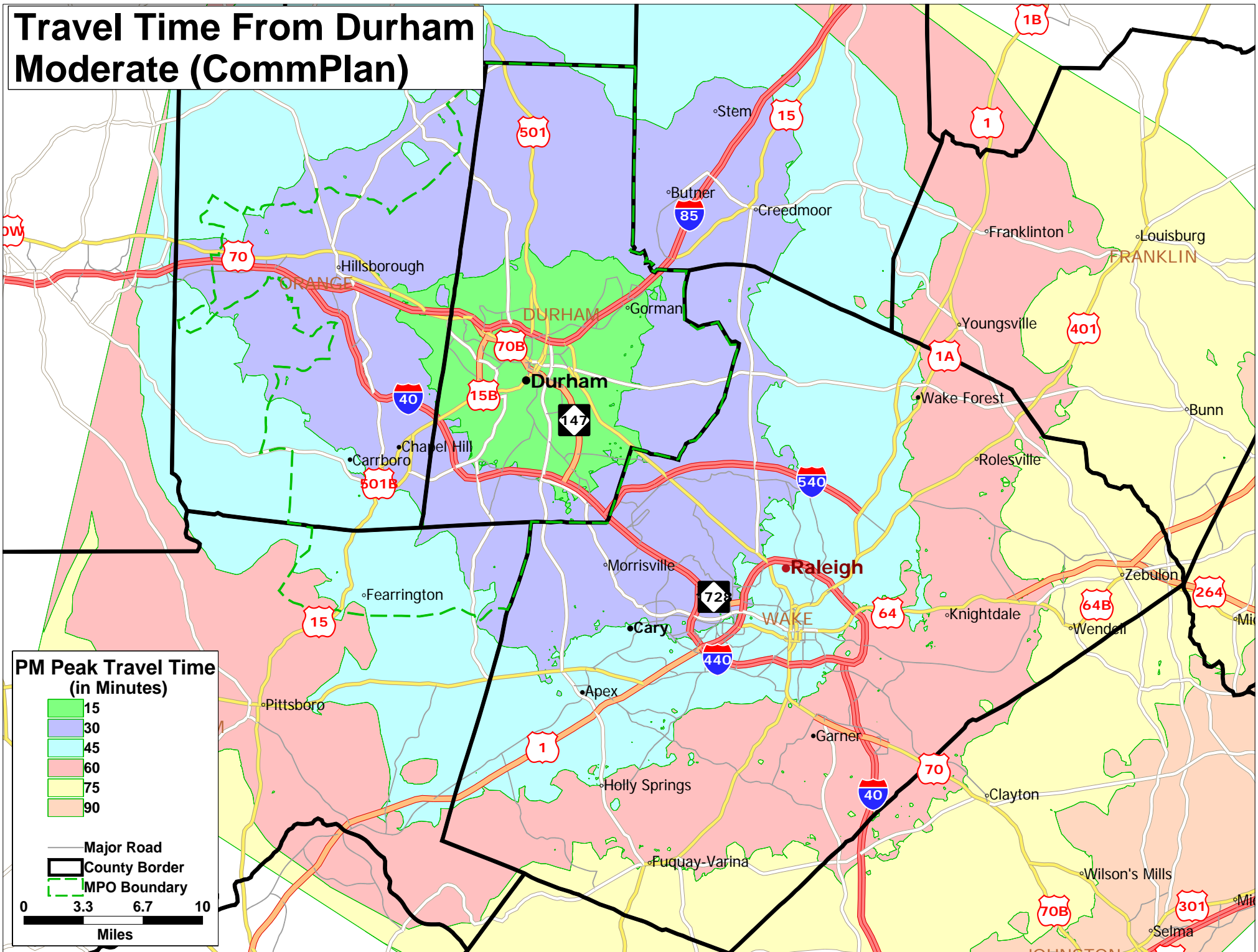
# Travel Time From RTP Highway Intensive (CommPlan)



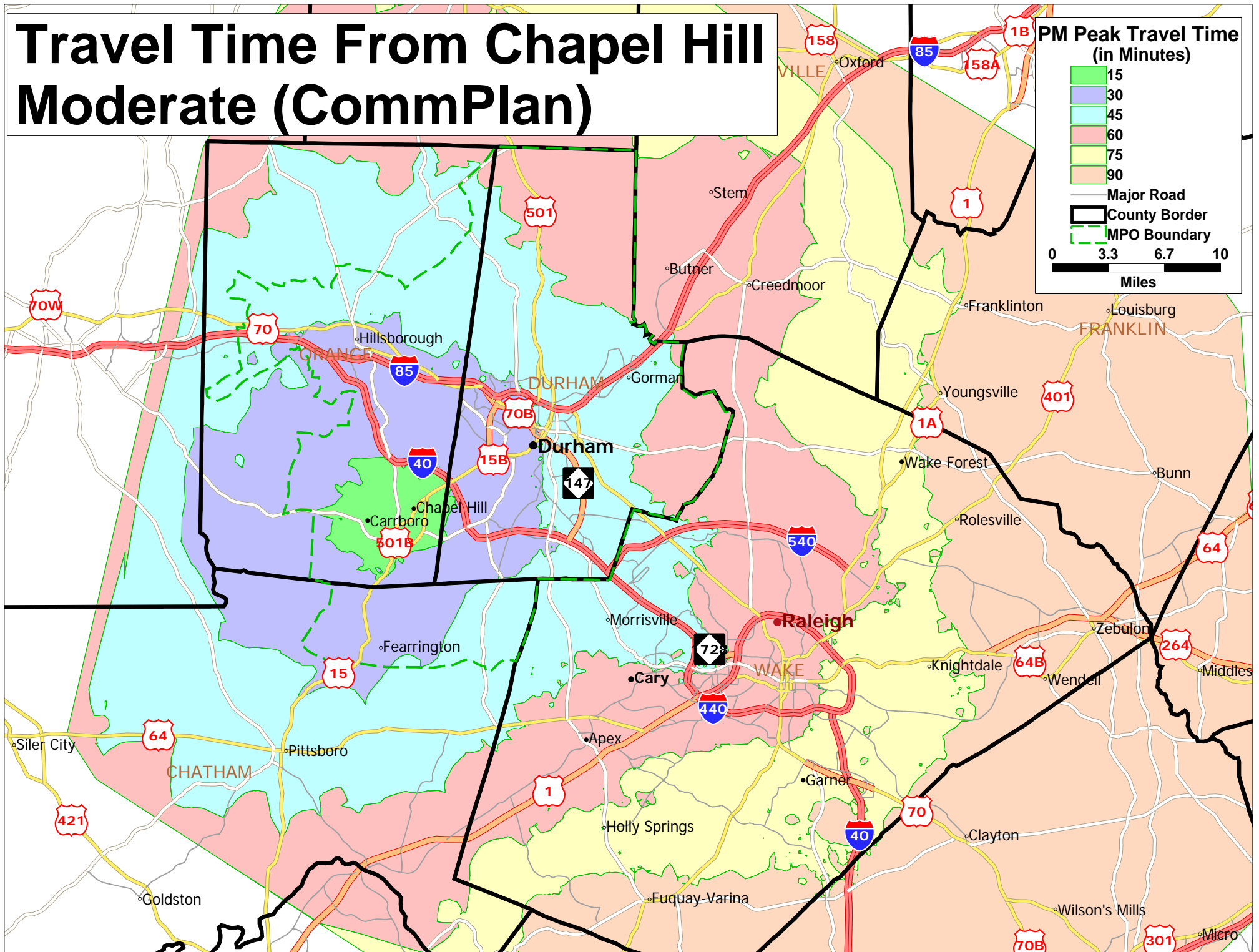




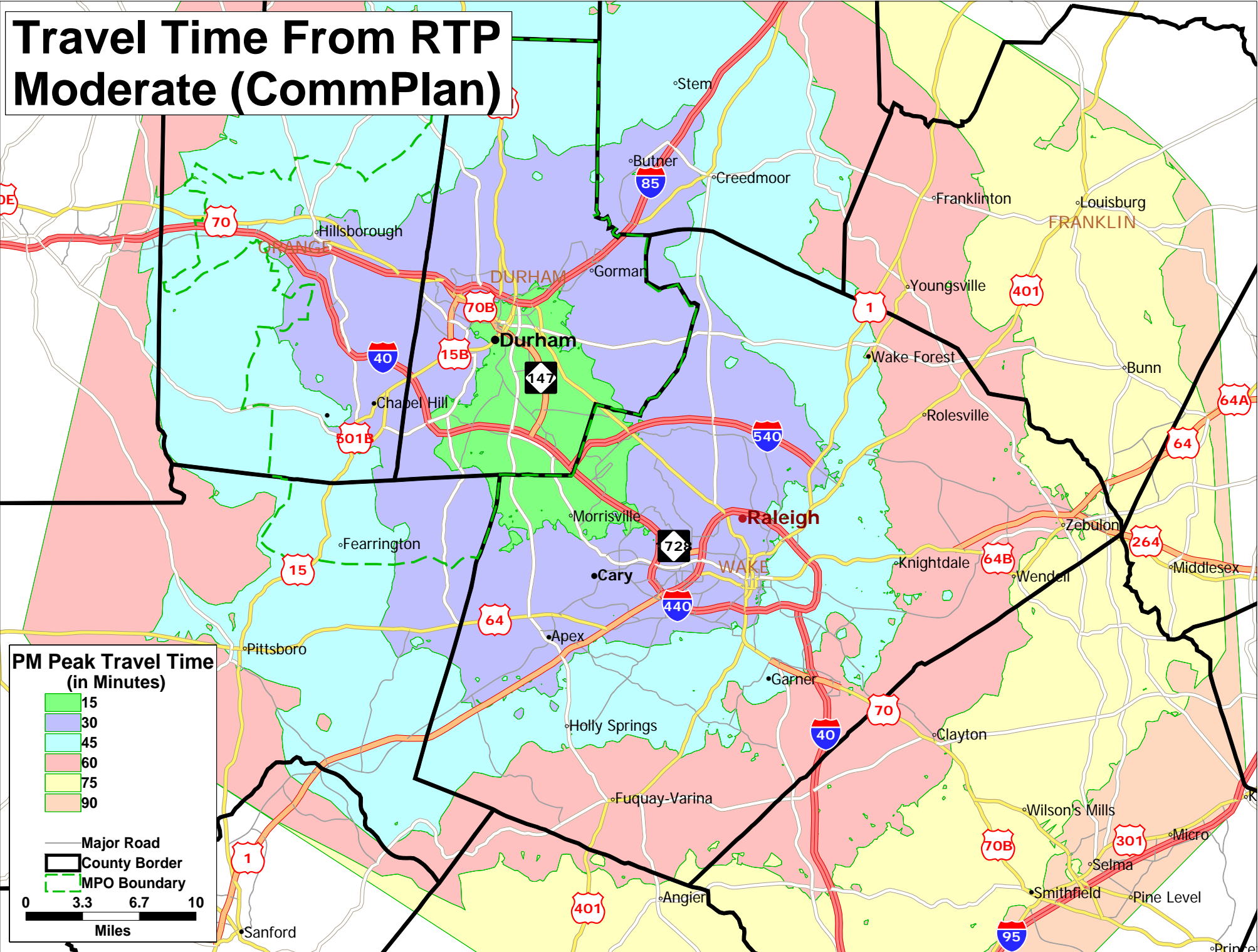
# Travel Time From Durham Moderate (CommPlan)



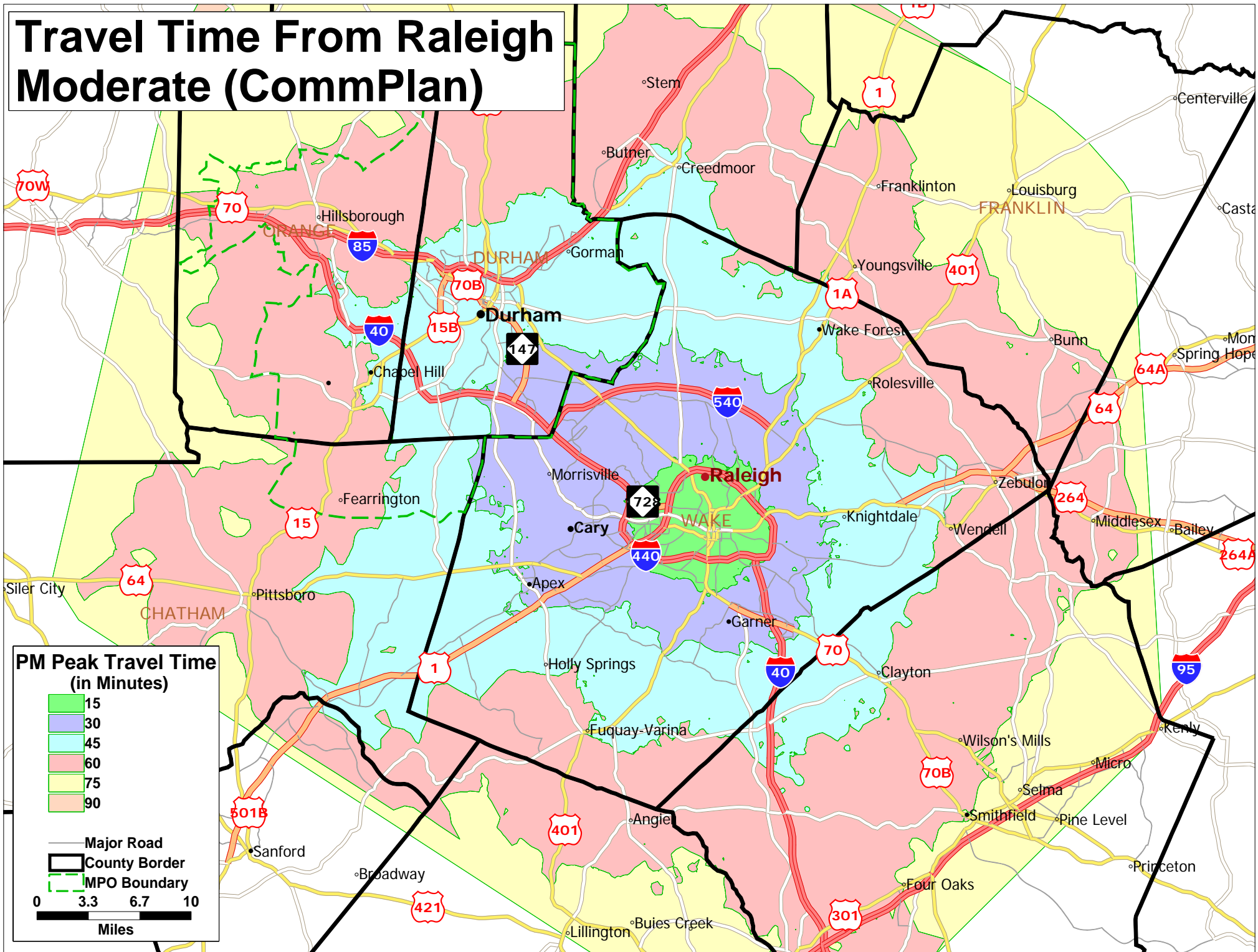
# Travel Time From Chapel Hill Moderate (CommPlan)



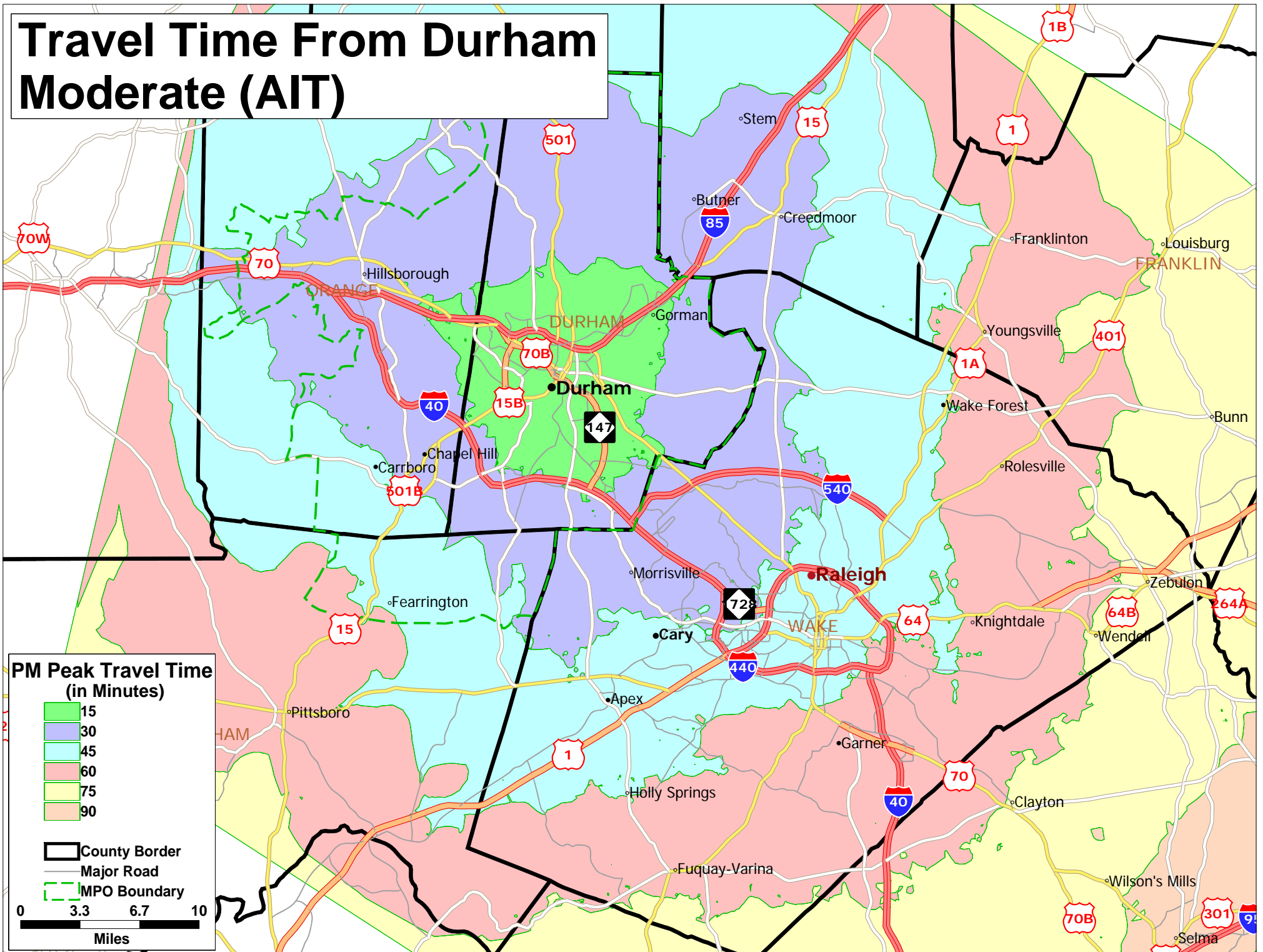
# Travel Time From RTP Moderate (CommPlan)



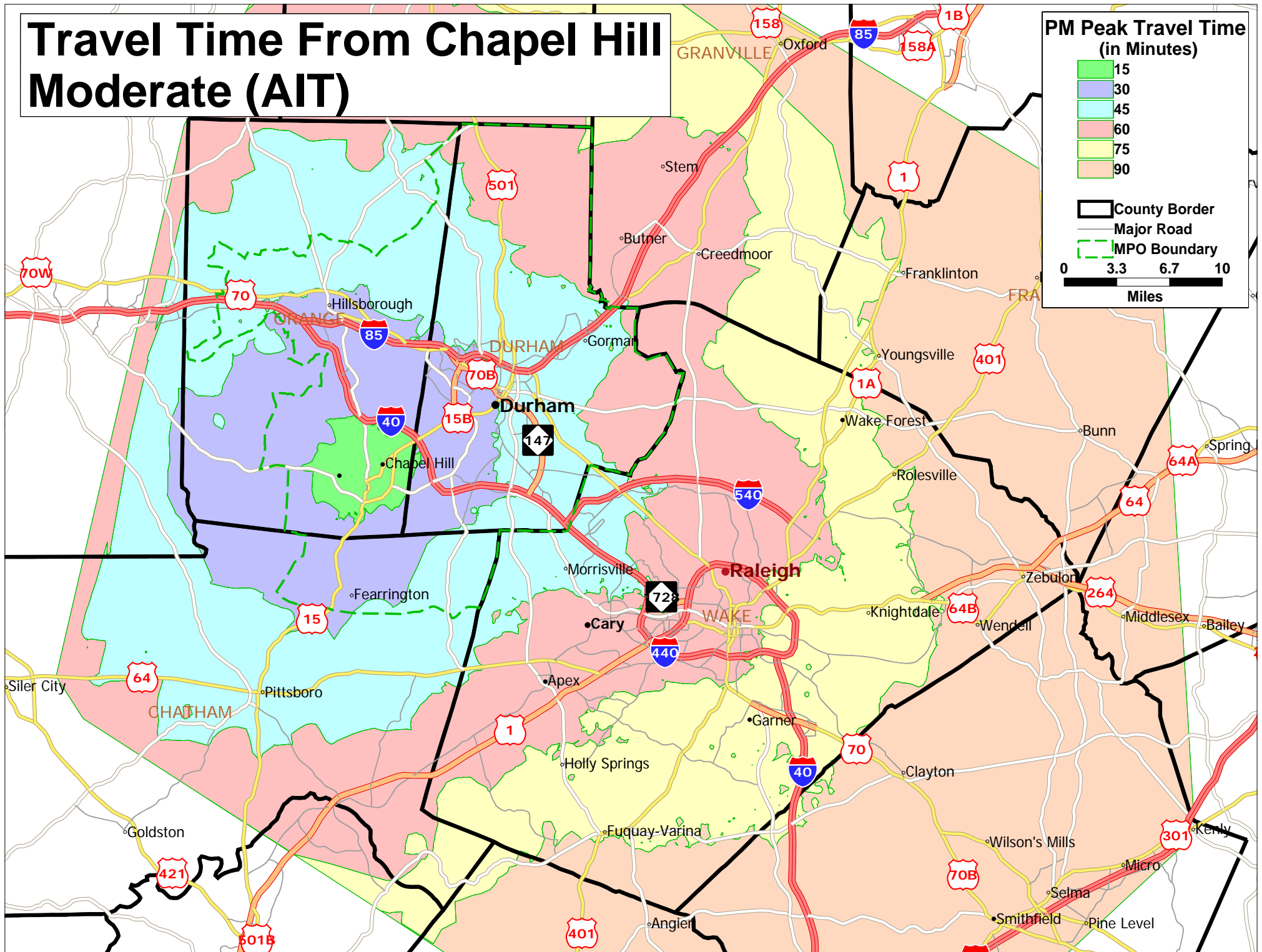
# Travel Time From Raleigh Moderate (CommPlan)



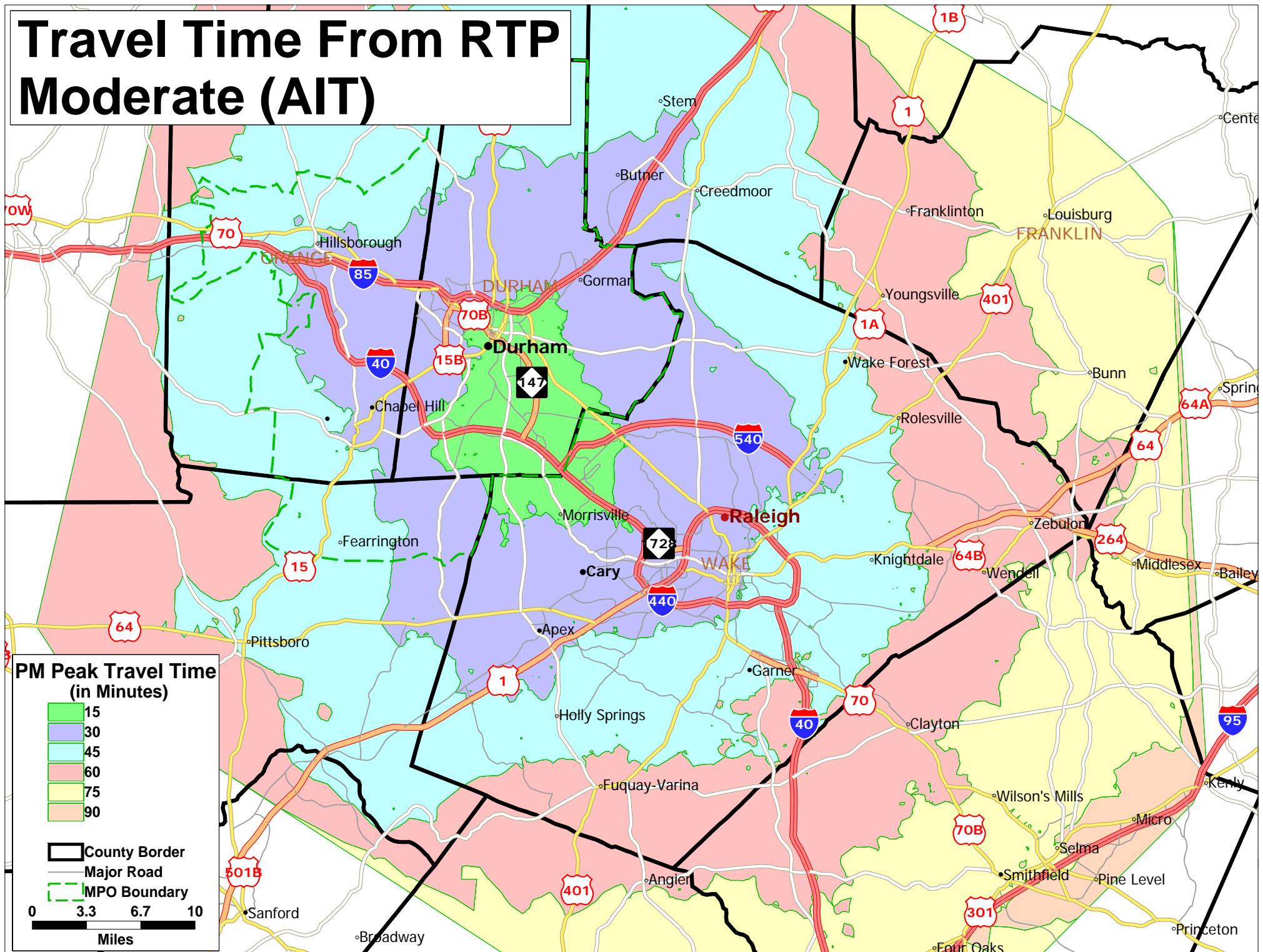
# Travel Time From Durham Moderate (AIT)



# Travel Time From Chapel Hill Moderate (AIT)

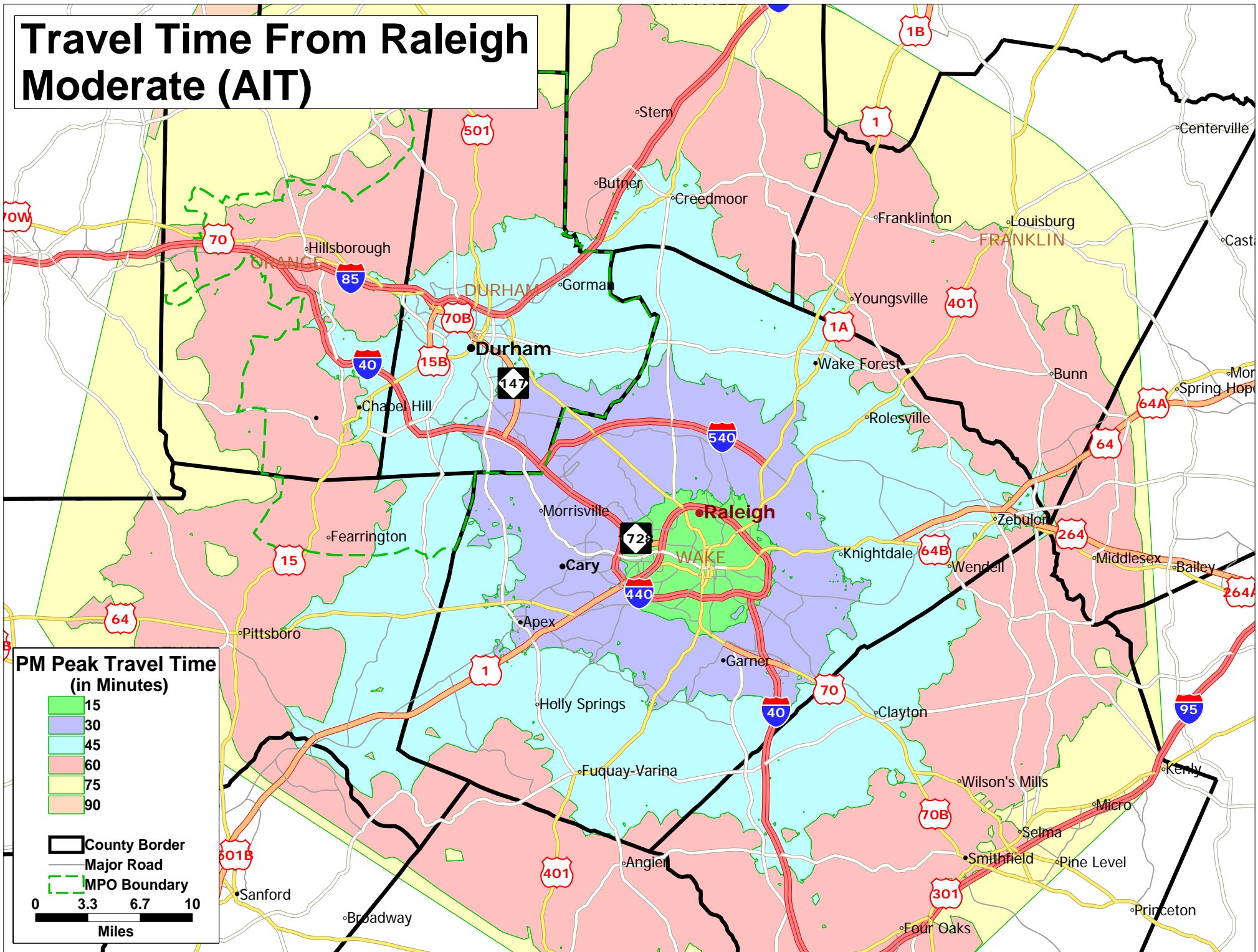


# Travel Time From RTP Moderate (AIT)

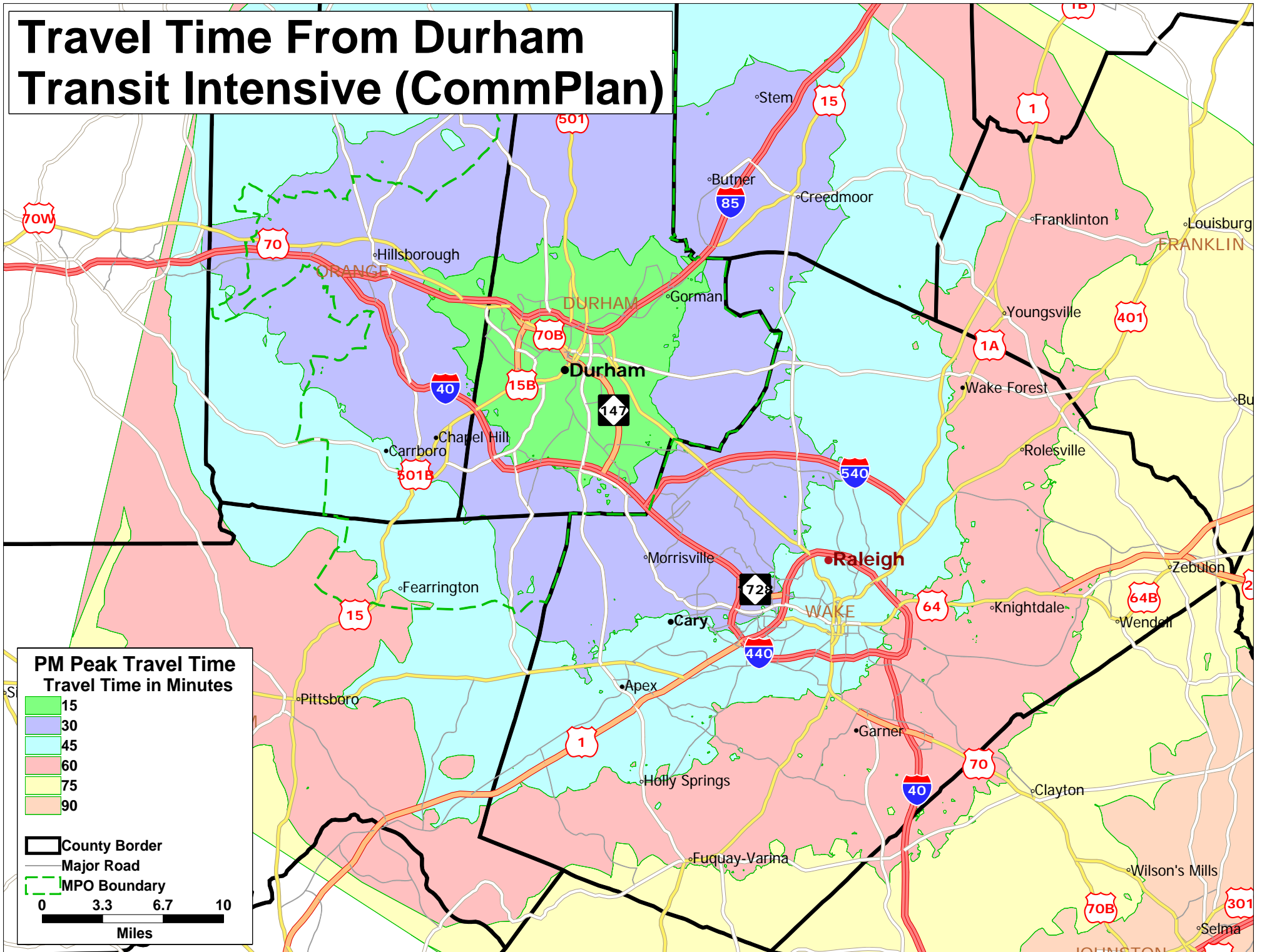




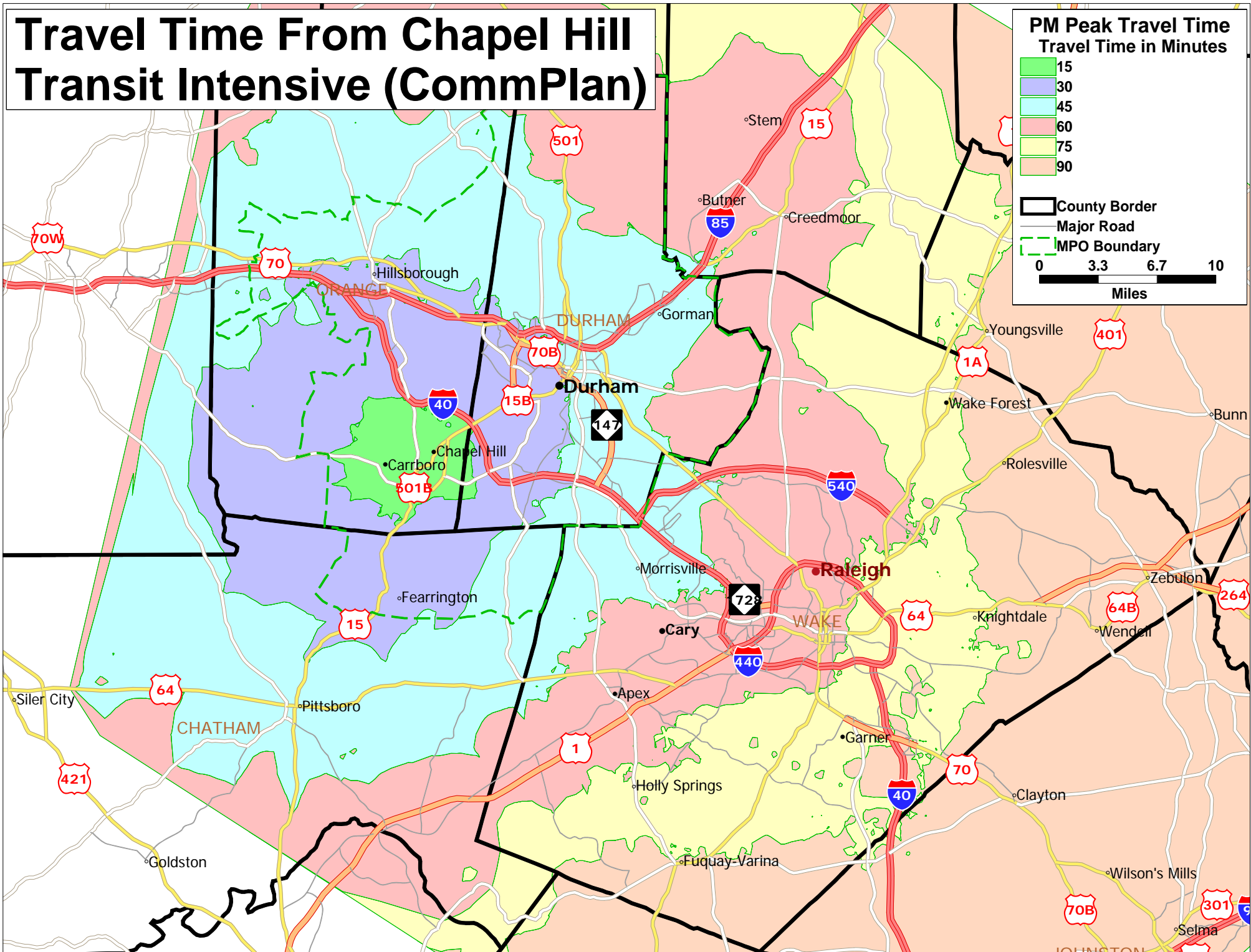
# Travel Time From Raleigh Moderate (AIT)



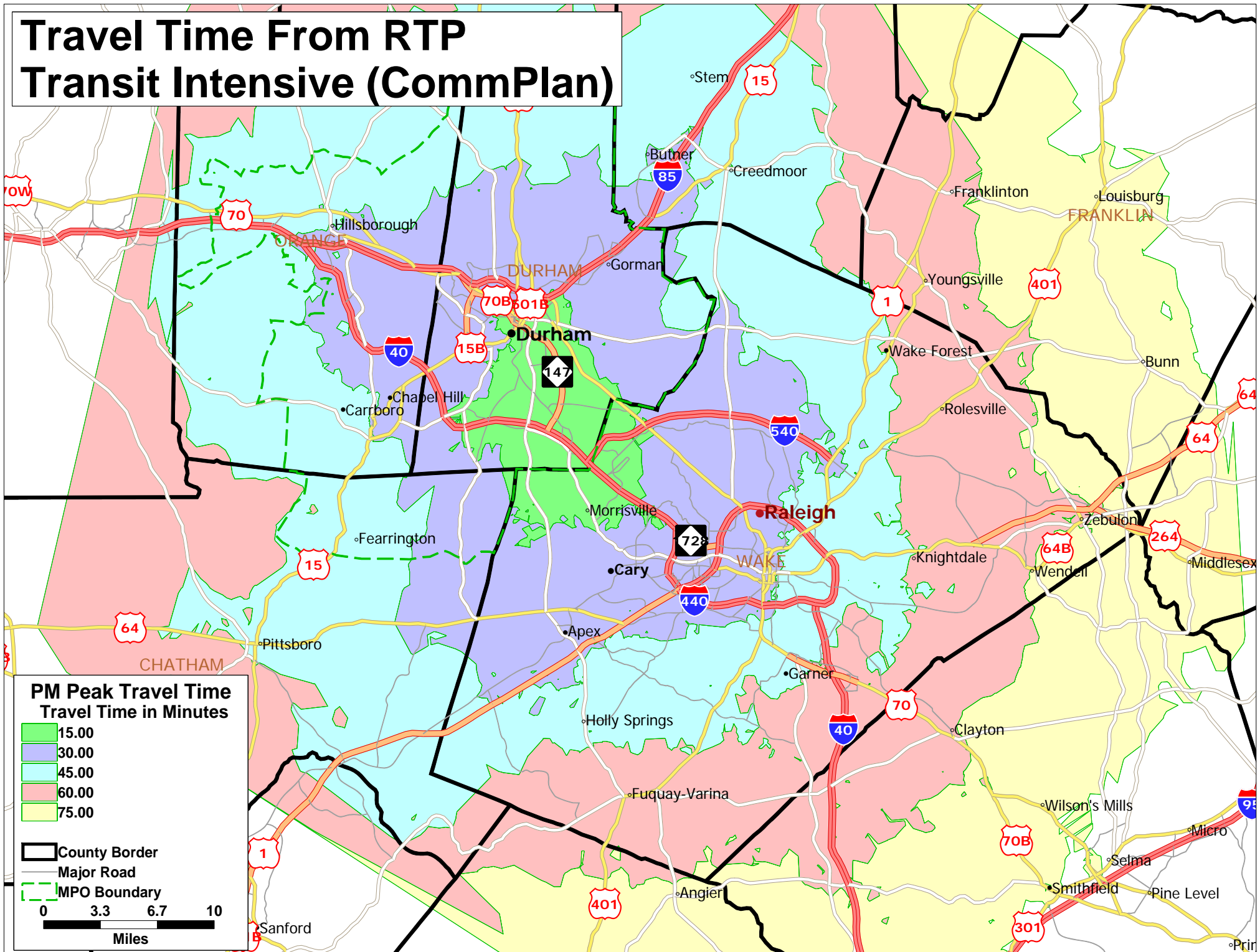
# Travel Time From Durham Transit Intensive (CommPlan)



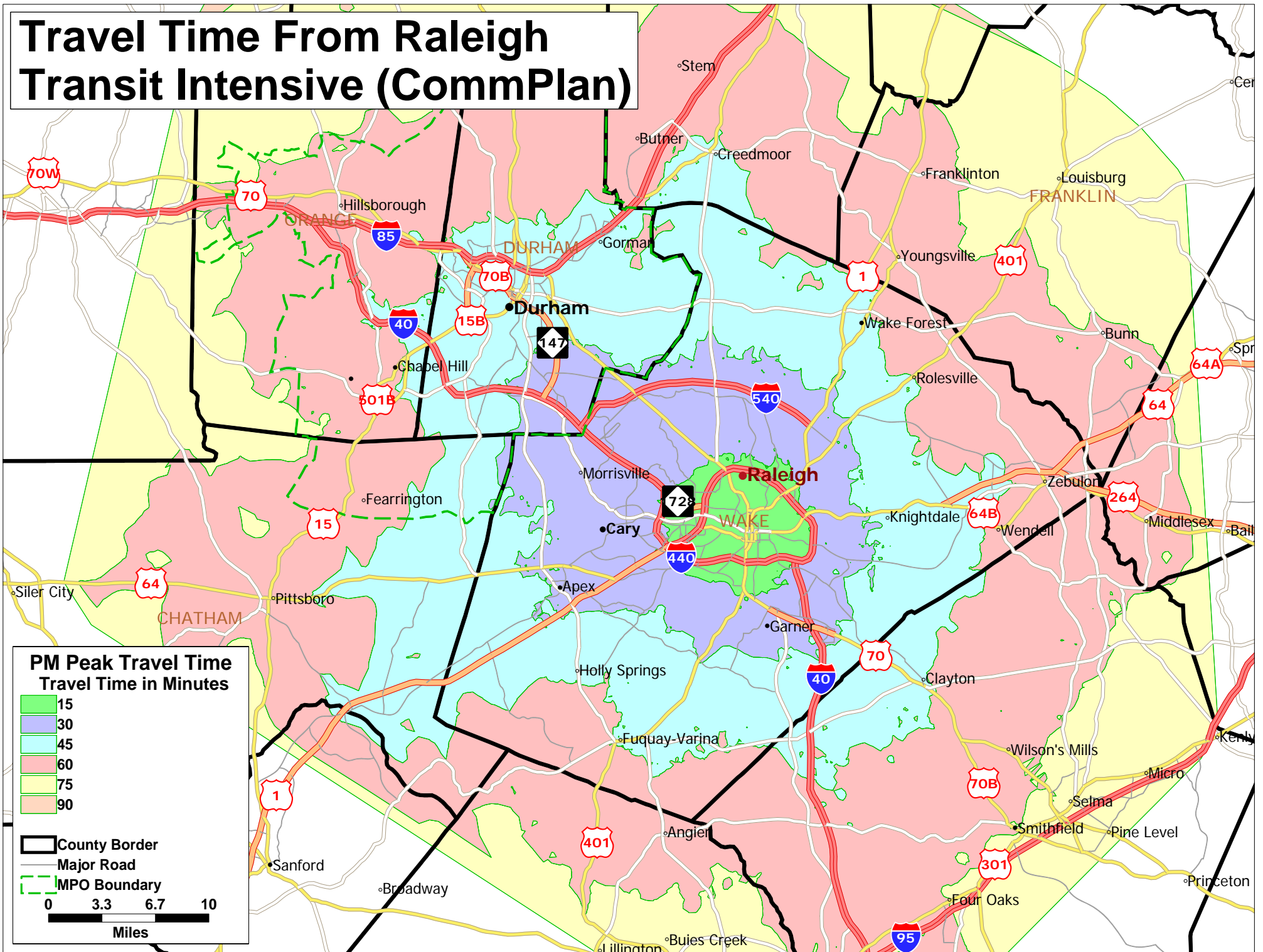
# Travel Time From Chapel Hill Transit Intensive (CommPlan)



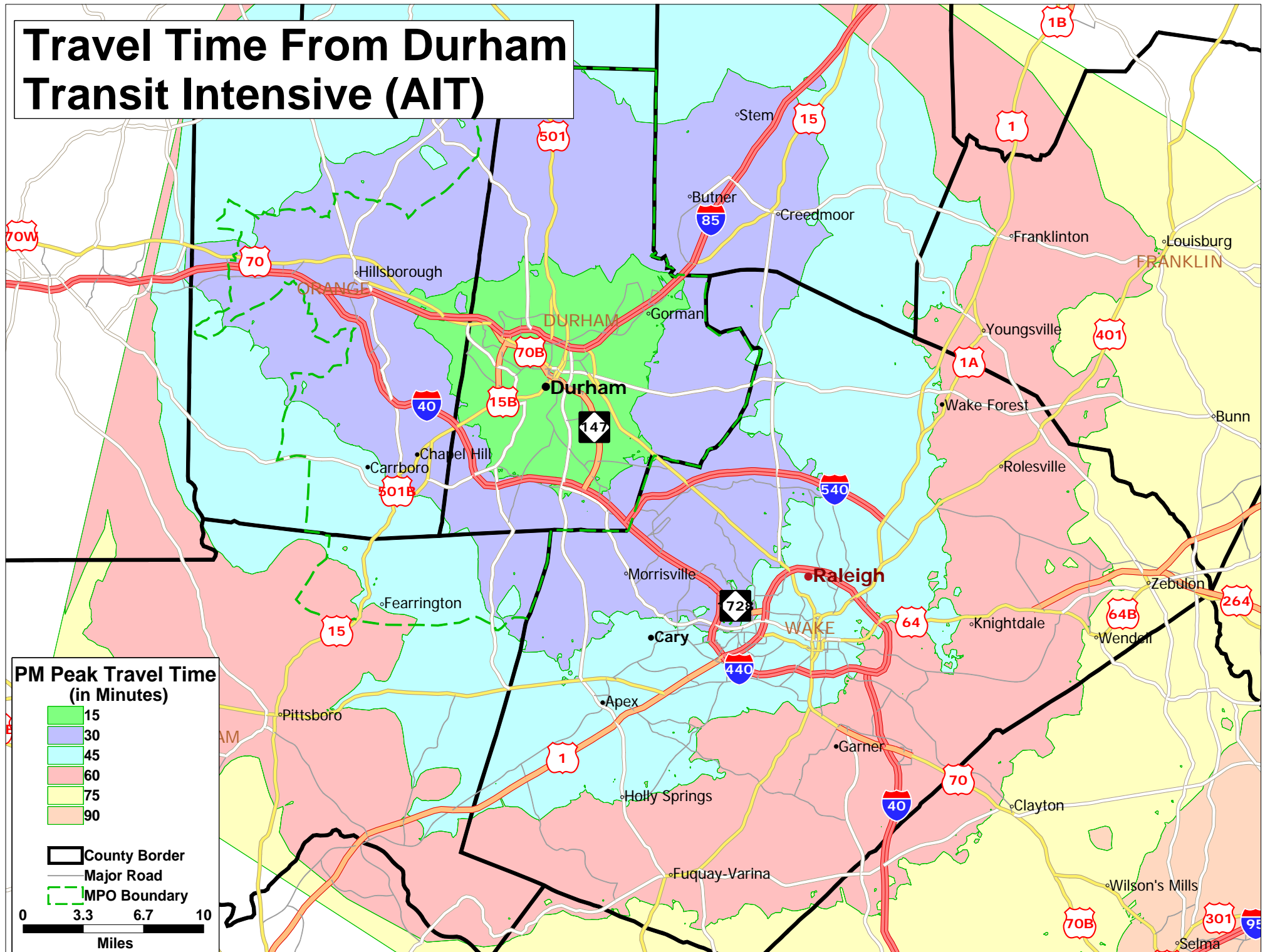
# Travel Time From RTP Transit Intensive (CommPlan)



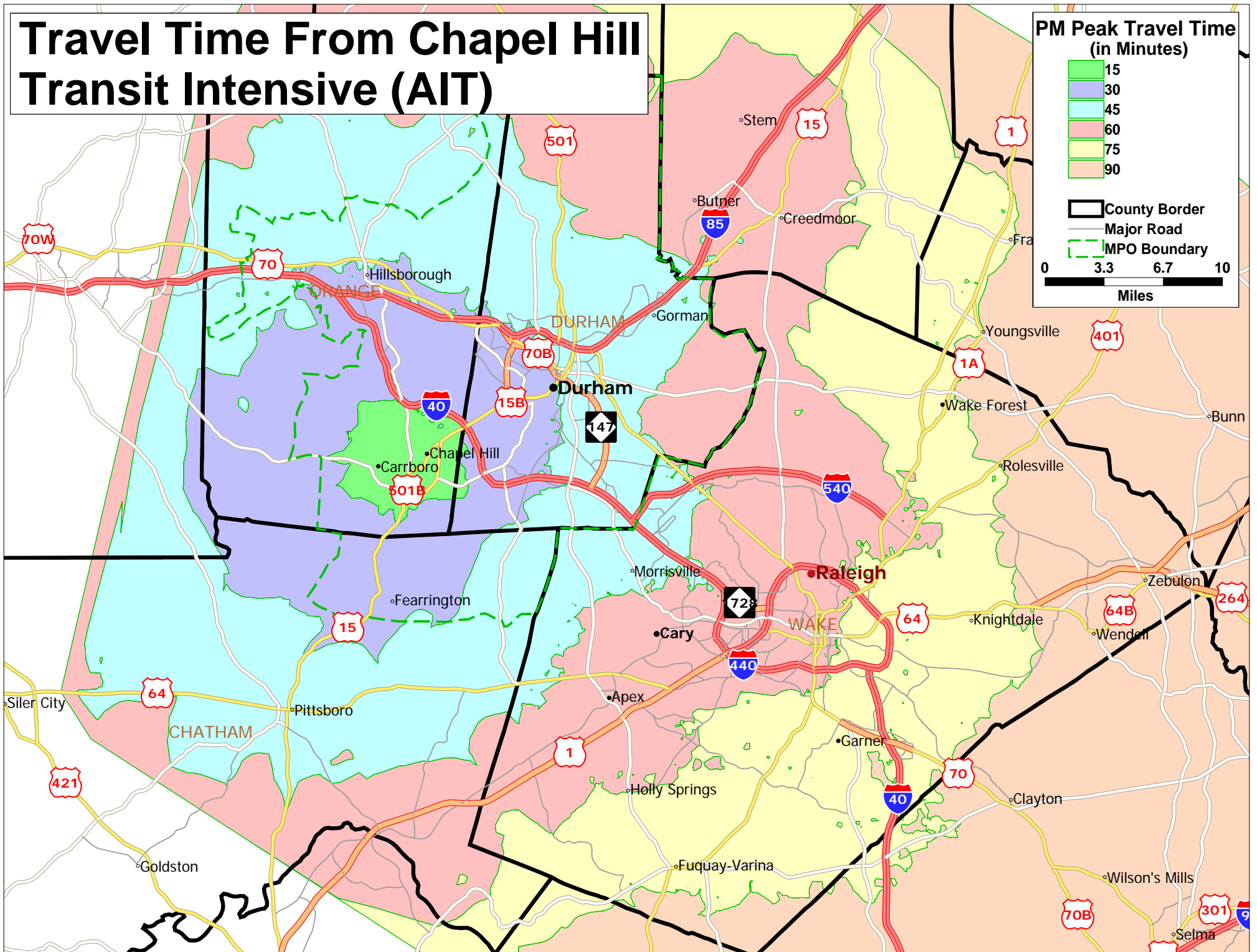
# Travel Time From Raleigh Transit Intensive (CommPlan)



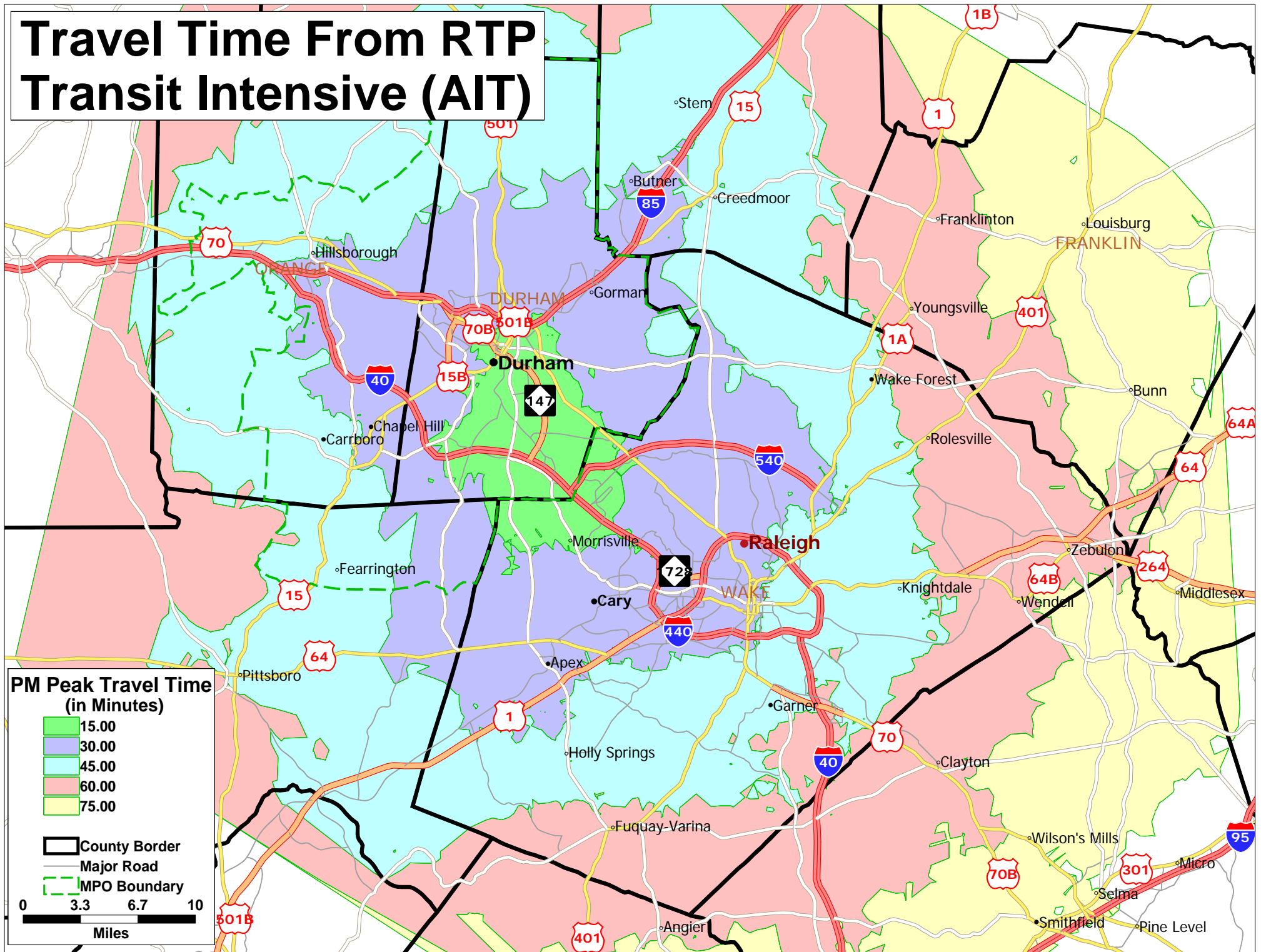
# Travel Time From Durham Transit Intensive (AIT)



# Travel Time From Chapel Hill Transit Intensive (AIT)



# Travel Time From RTP Transit Intensive (AIT)





# Travel Time From Raleigh Transit Intensive (AIT)

