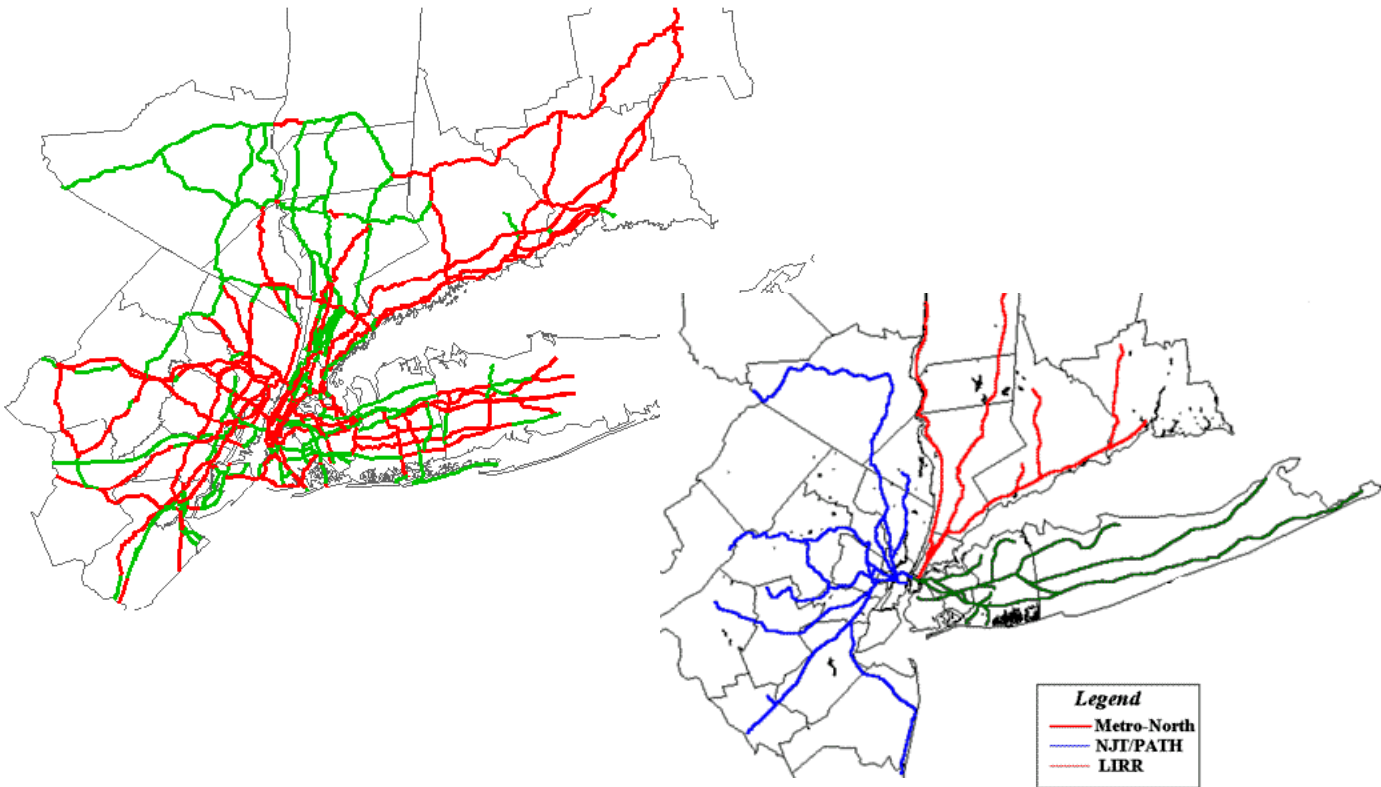


Recurring Congested Roadways in New York, New Jersey, & Connecticut

— Recurring Congestion

Konheim & Ketcham, Inc.



ADT/LANE(BA)	acc/lane/mile(AB&BA)	Obstruction	Obstruction	4/6-Lane	4/6-Lane	shoulder	shoulder	lane Width	lane Width	
14501	7	2	2	2	4	4	5.5	5.5	12	12
17282	7	2	2	2	4	4	3	3	12	12
16432	55	2	2	2	4	4	2	2	12	12

GIS FORERUNNER OF REGIONAL TRANSPORTATION DATABASE

In developing the strategic plan for Intelligent Transportation Systems in the NY/NJ/CT metropolitan region, Konheim & Ketcham worked for the firm now called TransCore and TRANSCOM. K&K's primary responsibility was to identify the critical corridors in the region for deployment of the recommended ITS architecture. For this, K&K built a geographic information system (GIS) of all the major roadways and transit lines in the 23 county-region, incorporating 46 physical and operating characteristics of roadways, and transit capacities. Some of the data fields shown above are width of lanes and shoulders, and presence of obstructions. Along with operating characteristics for each five mile link, these data were analyzed in TransCAD to estimate volume to capacity ratios and to determine if, during peak hours, a road routinely experienced congestion (recurring congestion) or whether it was vulnerable to intermittent delays due to incidents.

This innovative work was published in the Transportation Research Record, No. 1497, Washington, D.C., 1995 as *The Development of a Regional GIS-Transportation ITS Network*, M.S. Iqbal, C.S. Konheim and B.T. Ketcham,