

Identifying Land Use Change in the NJ Pinelands of the Past Two Decades Using GIS

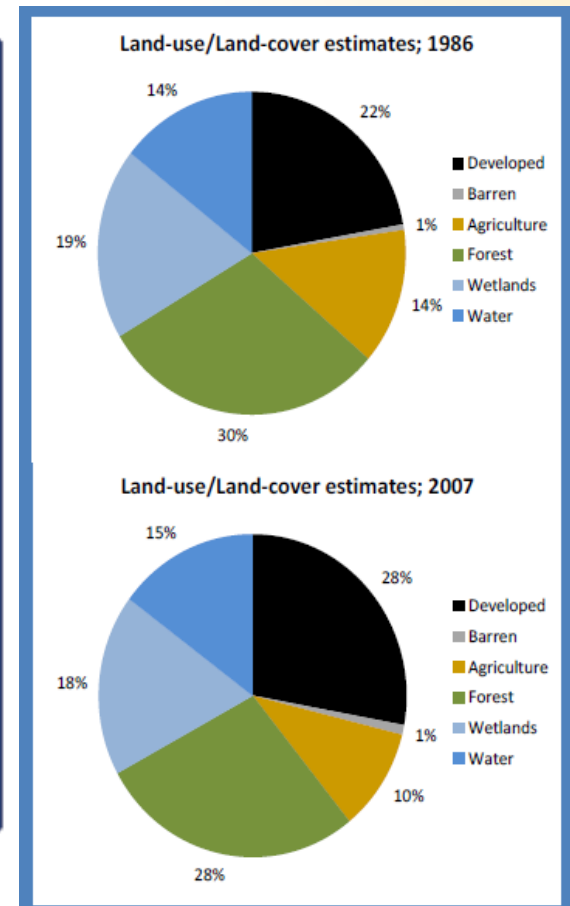
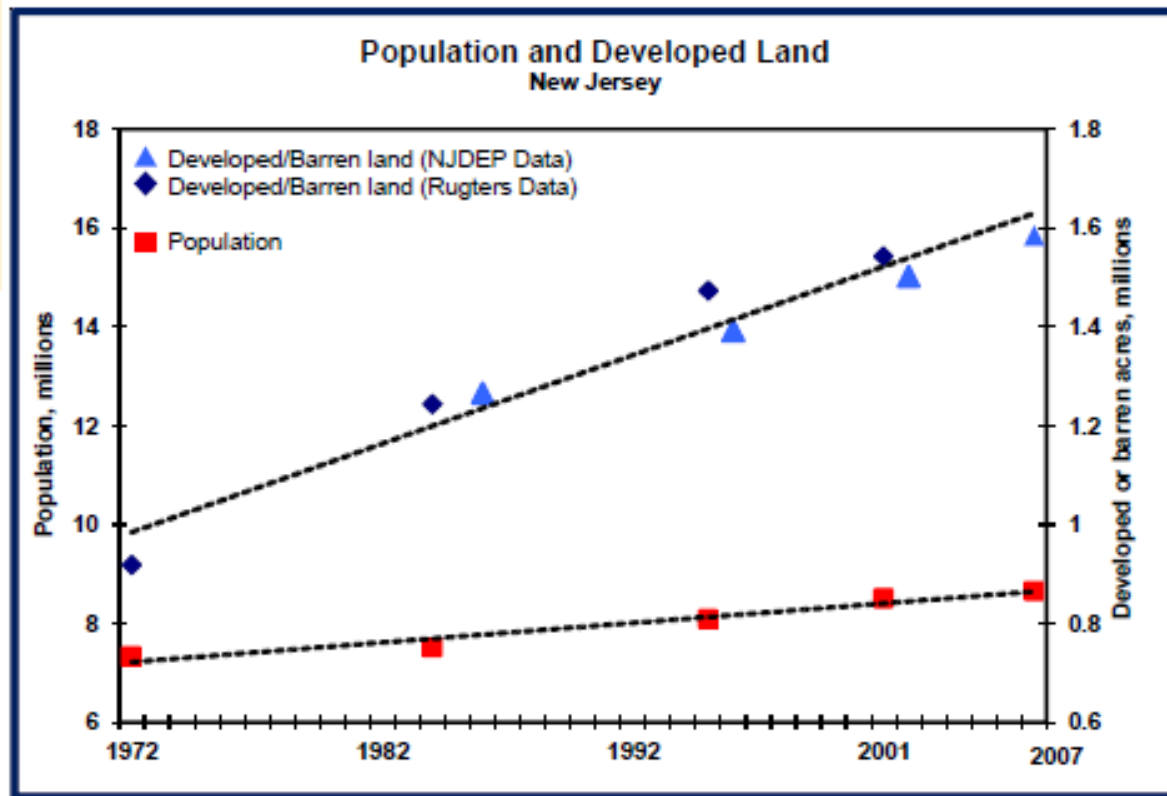
Weihong Fan, Ph.D.

Professor of Environmental Science

School of Natural Science and Mathematics

Richard Stockton College of New Jersey

Trend of the land use/cover change in NJ



- * Developed increased by 325,000 ac. 1986 - 2007.
- * Developed area increased by 600,000 ac 1972 - 2001, a 68% of increase while population increased by 16%. (Data source: *Environmental Trends Report, NJDEP, Office of Science*, <http://www.state.nj.us/dep/dsr/trends/>)

New Jersey Smart-growth Strategies

“promote community growth in a way that preserves open space, minimizes pollution and habitat loss, maximizes economic prosperity, and is equitable to all” (<http://www.njfuture.org/smart-growth-101/>).

- * **Take Advantage of Existing Community Assets.** From local parks to neighborhood schools to transit systems, public investments should focus on getting the most out of what we have.
- * **Preserve Open Space, Farmland, and Critical Environmental Areas.** People want to stay connected to nature and protect farms, waterways, ecosystems and wildlife.
- * **Strengthen and Encourage Growth in Existing Communities.** We should look for opportunities to grow in already built-up areas before we pave new areas.

Objectives of the workshop

- * Identify the location, the direction, and the trend of the land use changes;
- * Quantify the changes; and
- * Evaluate the changes in the context of New Jersey Smart-Growth strategies using GIS technology

Note: A worksheet is available in PDF format