

## Socioeconomics (cont.)

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## Socioeconomic Factors

- ◆ Infrastructure
- ◆ Land Use
  - Zoning
  - Land Use Value
  - Farmlands
  - Community Plans
  - Fiscal Issues (public cost vs. revenues)
- ◆ Neighborhood Cohesiveness
- ◆ Relocations

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## Assessing Impacts to Infrastructure

- ◆ Water Supply
- ◆ Waste Water Treatment
- ◆ Solid Waste Disposal
- ◆ Utilities
- ◆ Identify Source of Potential Impacts
  - Changes in Demographics
  - Crossing or Construction Near Utilities
- ◆ Determine Study Area
  - Usually area of direct effected by project
- ◆ Determine Existing Conditions
  - Water Supplier Data
  - Waste Water Treatment Provider
  - Solid Waste Disposal Provider
  - Utilities
  - County/Municipal Data

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## Infrastructure (cont.)

- ◆ **Identify Standard**
  - Ability to Satisfy Demand
- ◆ **Impact Prediction**
  - Using National/State/Regional Averages
  - Employment Related
    - ◆ Construction Phase
    - ◆ Operation Phase
  - Attraction Related
- ◆ **Assess Significance of Impacts**
  - Ability to Satisfy Demand
- ◆ **Mitigation**
  - Short-Term Facilities
  - Long-Term Facilities
  - Move Utilities

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## Model Factors for Utilities

Factor	Use	Standard
Water Consumption	Residential	85 gallons/day/person
	Office Space	93 gallons/day/1000 ft <sup>2</sup>
	Retail Space	106 gallons/day/1000 ft <sup>2</sup>
	Industrial	150 gallons/day/person
Solid Waste Production	Residential	0.00175 tons/day
	Office Space	0.001 tons/day
	Retail Space	0.001 tons/day
	Industrial	0.00138 tons/day
Sewage Production	Residential	65 gallons/day/person
	Office Space	80 gallons/day/1000 ft <sup>2</sup>
	Retail Space	91 gallons/day/1000 ft <sup>2</sup>
	Industrial	129 gallons/day/person

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## Assessing Impacts to Land Use

- ◆ **Zoning**
- ◆ **Land Use Value**
- ◆ **Farmlands**
- ◆ **Community Plans**
- ◆ **Fiscal Issues (public cost vs. revenues)**
- ◆ **Identify Source of Potential Impacts**
  - Changes in Demographics
  - Changes in Access
  - Direct Changes Land Use Due to Project
  - Project Related Demands
  - NIMBY
- ◆ **Determine Study Area**
  - Area of direct impact
  - County
- ◆ **Determine Existing Conditions**
  - County/Municipality Data

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## Land Use (cont.)

- ◆ Identify Standard
  - None
- ◆ Impact Prediction
  - Zoning/Farmlands/Community Plans
  - Direct Change in Land Use
  - Indirect/Attraction Related
  - Land Use Value
  - Compare to an Existing Facility
  - Fiscal
  - Calculation of Public Costs
  - Calculation of Public Revenues
- ◆ Assess Significance of Impacts
  - Imbalance in Zoning
  - Percent Change in Value
  - Percent Farmland
  - Conflicts with community plans
  - Budget Deficit
- ◆ Mitigation
  - Move Project
  - Re-zoning
  - Buy Out
  - Change Taxes

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## Farmland Assessment

- ◆ Farmland includes :
  - Prime – best combination of physical/chemical characteristics for producing of agricultural crops without intolerable soil erosion
  - Unique – Other than prime, used for production of high-value food/fiber crops
  - Statewide or Local Importance - Other than prime or unique, used for production of food/fiber/forage/oil-seed crops determined by state or local agencies
  - Does not include urban areas
- ◆ Consultation with NRCS
- ◆ Form AD 1006 (Farmland Conversion Impact Rating) should be processed

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## Assessing Impacts to Neighborhoods

- ◆ Neighborhood Cohesiveness
- ◆ Places of Worship/Community
  
- ◆ Identify Source of Potential Impacts
  - Changes in Demographics
  - Changes in Access
  - Direct Taking of Places of Community Cohesion
- ◆ Determine Study Area
  - Area of direct impact
- ◆ Determine Existing Conditions
  - County/Municipality Data
  - Survey of Places of Worship/Community
- ◆ Identify Standard
  - None

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## Neighborhoods (cont.)

- ◆ **Impact Prediction**
  - Employment Related
    - ◆ Construction Phase
    - ◆ Operation Phase
  - Indirect/Attraction Related
  - Analysis of Access Routes
  - Displacement of Places of Community Cohesion
- ◆ **Assess Significance of Impacts**
  - Professional Judgment
- ◆ **Mitigation**
  - Additional Access
  - Move Project
  - Buy Out of Places of Worship

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## Highway Impacts to Communities



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## Mitigation for Community Cohesion



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## Assessing Impacts of Relocations

- ◆ Residences
- ◆ Businesses
  
- ◆ Identify Source of Potential Impacts
  - Changes in Access
  - Direct Taking of Residences
  - Direct Taking of Businesses
- ◆ Determine Study Area
  - Area of direct impact
- ◆ Determine Existing Conditions
  - County/Municipality Data
  - Survey
- ◆ Identify Standard
  - None

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## Relocation (cont.)

- ◆ Impact Prediction
  - Analysis of Access Routes
  - Displacement of Residences
  - Displacement of Businesses
- ◆ Assess Significance of Impacts
  - Professional Judgment
- ◆ Mitigation
  - Additional Access
  - Move Project
  - Relocate Residences
  - Relocate Businesses

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