

Susquehanna River Basin Commission

- Federal-Interstate Compact Commission
- 100 year Compact, signed into law in 1970
- Members: New York, Pennsylvania, Maryland, US
- Sovereign rights and responsibilities of the signatory parties exercised jointly through the Commission in the common interest of the people of the basin.

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SRBC Activities

- Flood Forecast and Warning System
- Drought Coordination
- Monitoring and Assessment
 - Watershed Restoration
 - Subbasin Surveys
- Public Education and Outreach
- Project Review
- Water Resources Planning

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Project Review and Compliance

- The Commission reviews and approves projects for surface-water withdrawals, groundwater withdrawals and consumptive water uses.
- The Commission evaluates each project individually to identify the impacts that may be caused by its operation.
- The Commission also evaluates the project for cumulative impacts both locally and regionally.
- The Commission provides a forum for resolving disputes among water users.

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Groundwater Withdrawal



- Regulatory Threshold:
In excess of 100,000
gpd on a consecutive
30-day average.

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Surface Water Withdrawal



- Regulatory Threshold: In excess of 100,000 gpd on a consecutive 30-day average.

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Consumptive Water Use



- Regulatory Threshold: In excess of 20,000 gpd on a consecutive 30-day average (Includes “out-of-basin” diversions).

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SRBC Project Review Process

- Application process
- Interagency review and coordination
- Technical Review
 - Impact assessment
 - Environmental review
 - Determination of special conditions
- Commission action
- Post approval and compliance

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Water Resources Planning

- Water Budget Studies
 - Northern Lancaster County
 - Deer Creek Watershed PA & MD
- Conowingo Pool Management Plan
- Ag Consumptive Water Use Study
- Ground Water Management Plan

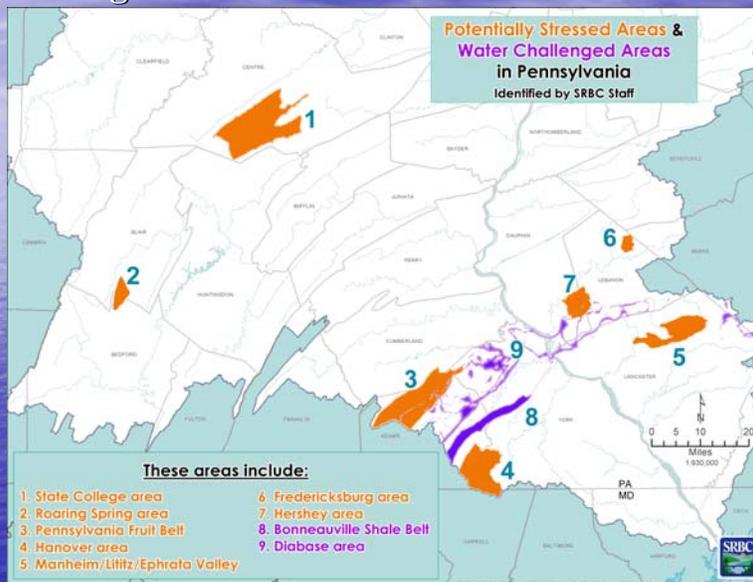
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Groundwater Management Plan

- **Purpose:** Provide framework for actions to effectively manage groundwater resources in the basin. Plan is broad-based and not a detailed implementation document.
- **Goal:** Achieve a balanced approach for groundwater use among environmental, human, and economic needs.

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SRBC Potentially Stressed Areas and Naturally Challenged Areas



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SRBC Potentially Stressed Areas

- Areas where water resource utilization is nearing, equals or exceeds the sustainable limit.

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Sustainable Limit: SRBC's Operational Definition

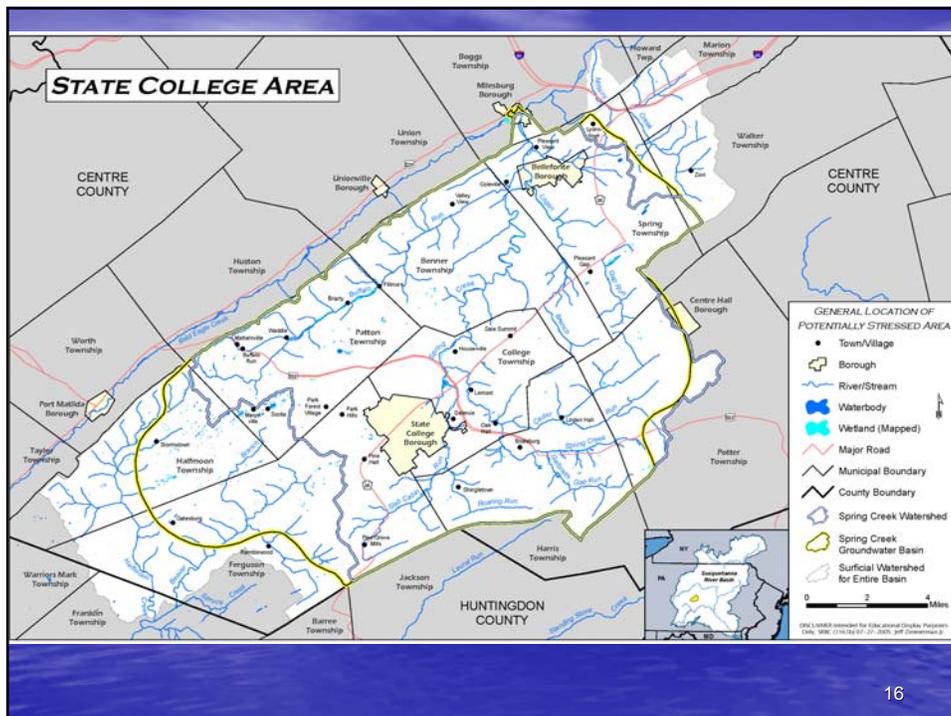
- 1 in 10 Year Average Annual Drought Recharge Rate.
- Allows Withdrawals to Exceed Annualized Recharge 1 Out Of Every 10 Years on the Average.

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The 1 in 10 Year Average Annual Drought Recharge Rate Limit:

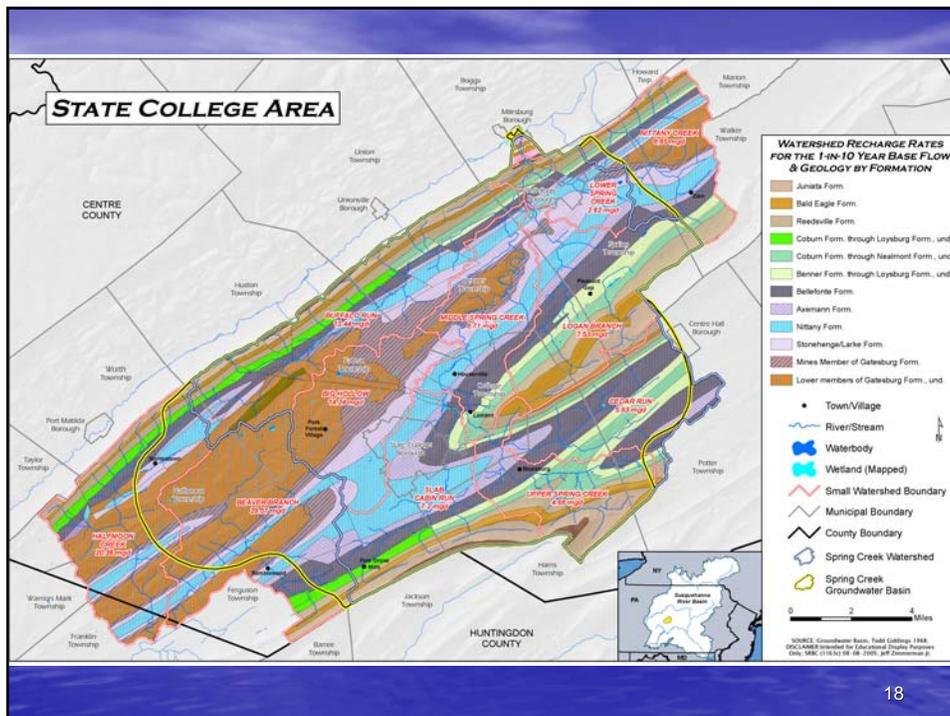
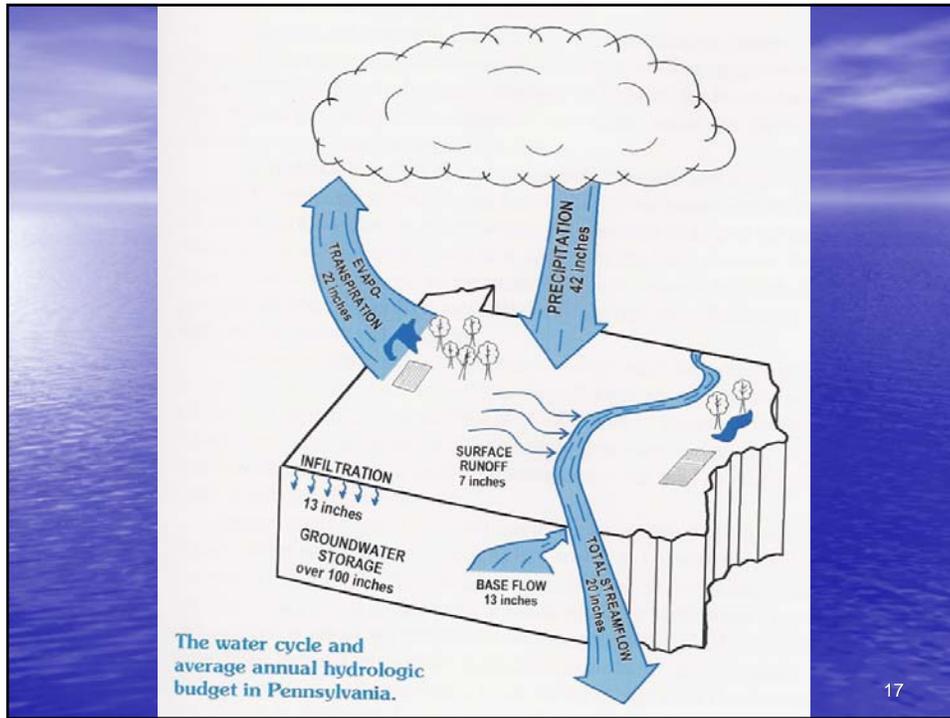
- Resource Conservation,
- Regulatory Restriction of Growth and Development, and
- The Need for Additional Constructed Storage.

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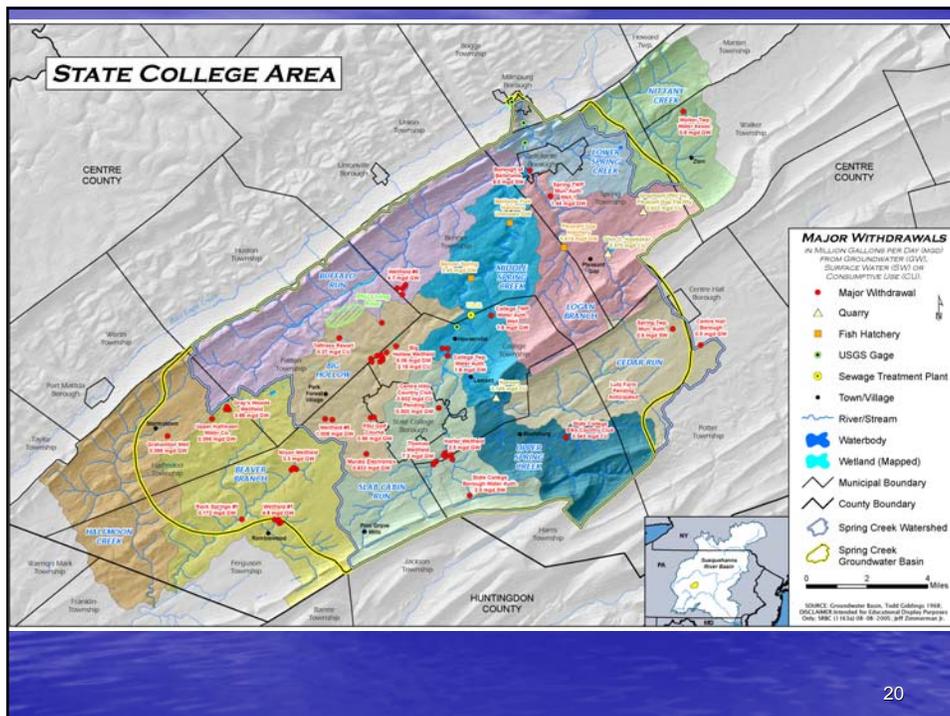
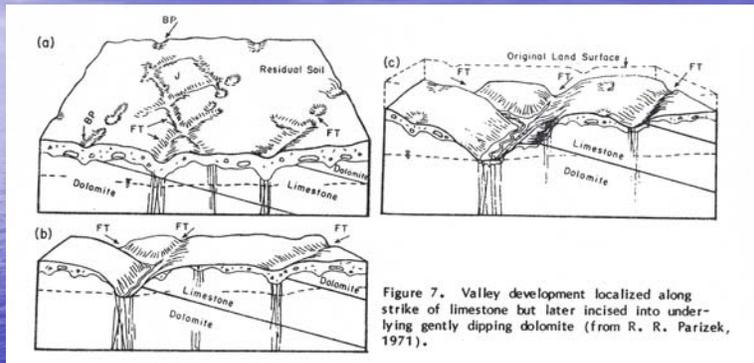


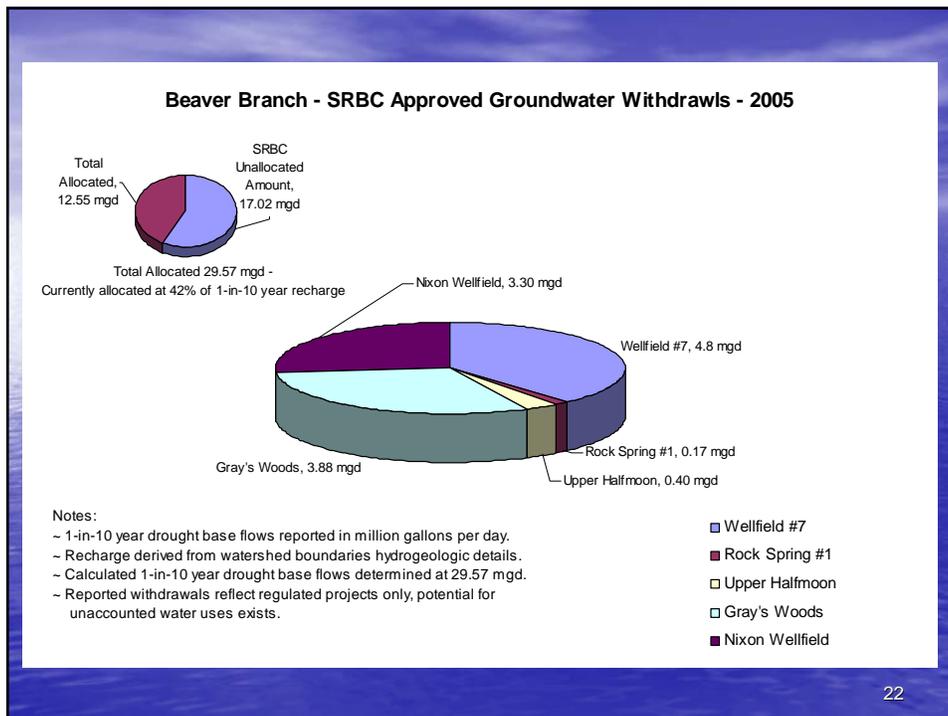
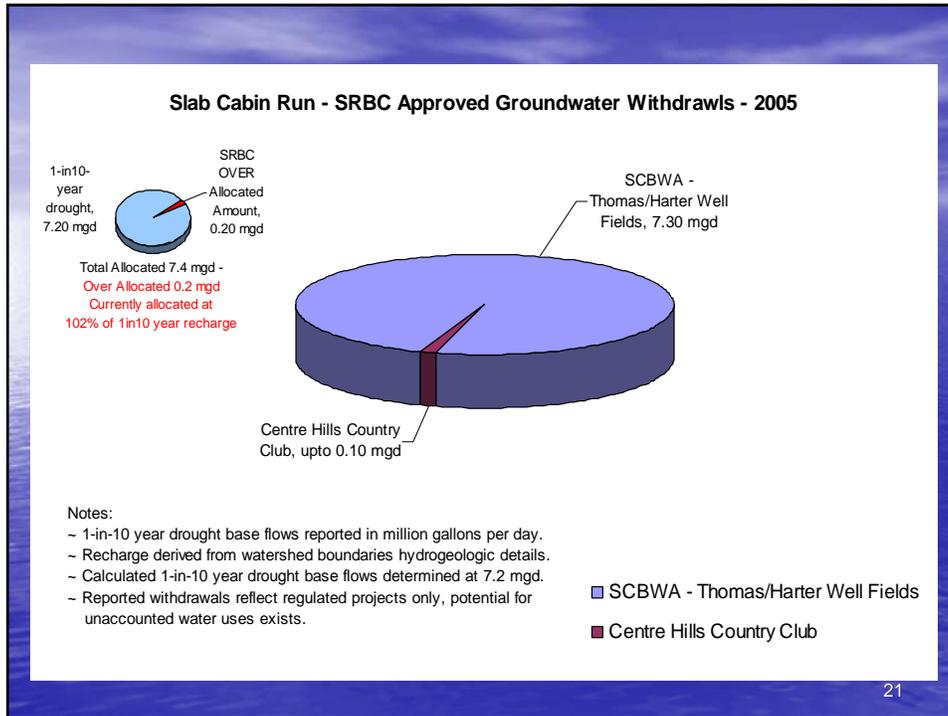
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Water Resource Issues in the State College Area

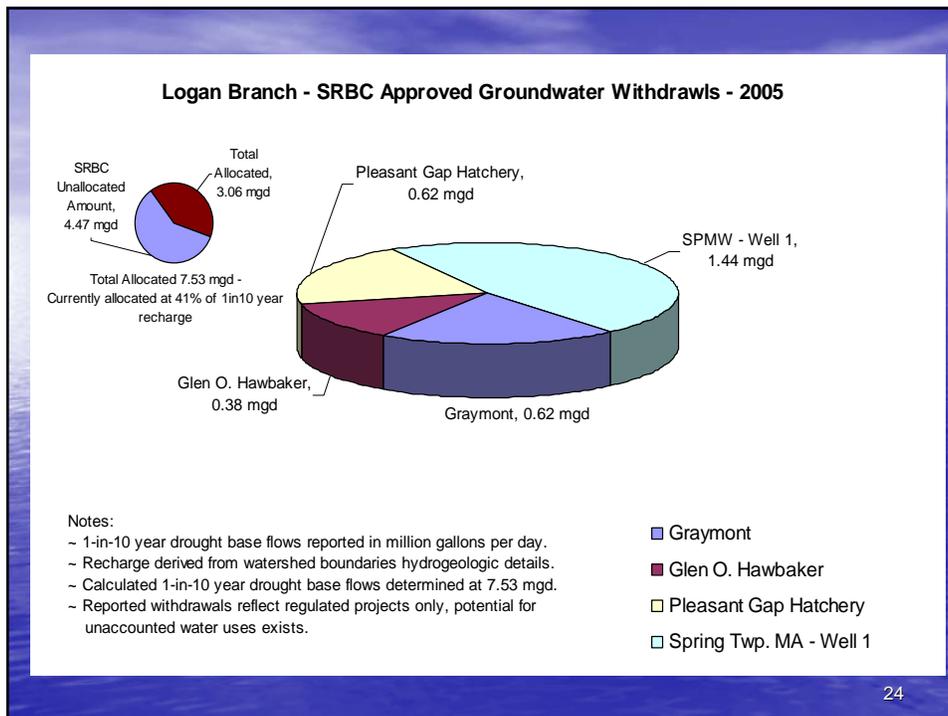
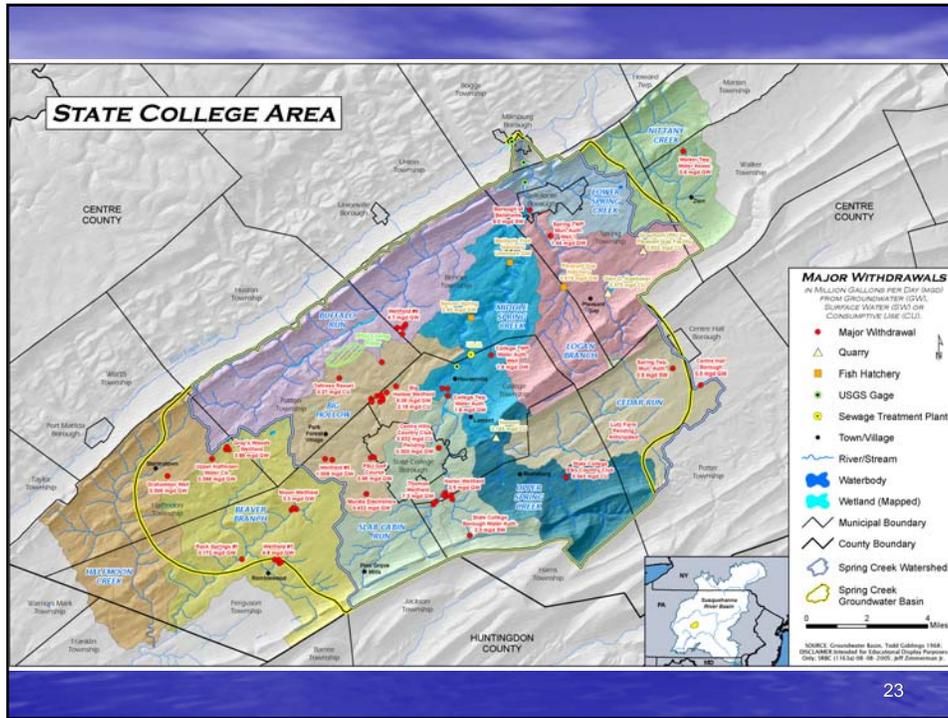


Fractured Valleys





Water Resource Issues in the State College Area



Imposed Special Conditions

- Pumping Restrictions
- Passby Requirements
- System Caps
- Water Budget Studies
- Monitoring

CENTRE REGIONAL PLANNING AGENCY
2643 Gateway Drive, Suite #4
State College, PA 16801



College Township Forecasting

| 2003-2010 | |
|-----------------------------|---------------|
| Single Family Units | 220 |
| Duplexes | 0 |
| Total Dwelling Units | 220 |
| Retail | 30,000 sq ft |
| Office | 308,000 sq ft |
| Church | 25,000 sq ft |
| Hotel Expansion | 150 rooms |
| Theatre | 1,888 seats |

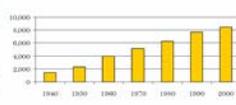
| 2011-2020 | |
|-----------------------------|---------------|
| Single Family Units | 117 |
| Townhomes | 100 |
| Duplex, Triples, Quadplex | 60 |
| Total Dwelling Units | 277 |
| Retail | 152,000 sq ft |
| Office | 100,000 sq ft |
| Industrial | 163,000 sq ft |

| 2021-2030 | |
|-----------------------------|---------------|
| Single Family Units | 150 |
| Total Dwelling Units | 150 |
| Retail | 23,000 sq ft |
| Office | 100,000 sq ft |
| Industrial | 40,000 sq ft |
| Hotel Expansion | 150 rooms |

Forecasting Totals for 27 Year Period

| 2003-2030 | |
|-----------------|---------------|
| Dwelling Units | 672 |
| Retail | 210,000 sq ft |
| Office | 268,000 sq ft |
| Industrial | 162,000 sq ft |
| Church | 25,000 sq ft |
| Theatre | 1,888 seats |
| Hotel Expansion | 300 rooms |

Population Trend



Housing Units

| Year | College Township | Centre Region |
|------|------------------|---------------|
| 1970 | 1,502 | 18,438 |
| 1980 | 2,011 | 19,930 |
| 1990 | 2,689 | 24,503 |
| 2000 | 3,213 | 29,031 |

Notes:

- Assumes no change in zoning
- Current Sewer Service Area and Regional Growth Boundary used as a guide
- Does not reflect full build-out
- Most of the dwelling units are in approved subdivisions

03/19/02

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Ferguson Township Forecasting

| 2003-2010 | |
|-----------------------------|---------------|
| Single Family Units | 306 |
| Duplexes | 88 |
| Townhomes | 127 |
| Apartments | 30 |
| Total Dwelling Units | 611 |
| Retail | 38,000 sq ft |
| Office | 202,500 sq ft |
| 1 Church | |

| 2011-2020 | |
|-----------------------------|--------------|
| Single Family Units | 606 |
| Townhomes | 370 |
| Apartments | 128 |
| Quadplexes | 208 |
| Total Dwelling Units | 1,312 |
| Retail | 33,000 sq ft |
| Office | 83,000 sq ft |

| 2021-2030 | |
|-----------------------------|--------------|
| Single Family Units | 333 |
| Townhomes | 433 |
| Apartments | 60 |
| Total Dwelling Units | 818 |
| Retail | 23,000 sq ft |
| Office | 20,000 sq ft |

Forecasting Totals for 27 Year Period

| 2003-2030 | |
|----------------|---------------|
| Dwelling Units | 2,771 |
| Retail | 116,000 sq ft |
| Office | 367,500 sq ft |
| 1 Church | |

Population Trend

| Year | Population |
|------|------------|
| 1980 | 2,000 |
| 1990 | 4,000 |
| 2000 | 14,000 |

of Housing Units

| Year | Ferguson Township | Centre Region |
|------|-------------------|---------------|
| 1970 | 2,117 | 14,438 |
| 1980 | 3,123 | 19,050 |
| 1990 | 5,740 | 24,305 |
| 2000 | 8,669 | 29,031 |

Notes:
 • Assumes no change in zoning
 • Does not reflect full build-out of the Regional Growth Boundary or Sewer Service Area
 • If the Township's average household size remains at 2.84, population would increase by 7,654 over the next 27 years

07/21/03

Managing Potentially Stressed Areas

- Review of Project applications
- Planning Studies
- Education
- Designation of Special Protected Areas

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