

Water Use in Indiana, Graphs by County and Water Management Basin, 1986–2010

**State of Indiana
Department of Natural Resources
Division of Water
2013**

**Prepared in cooperation with the
U.S Geological Survey**

Water Use in Indiana, Graphs by County and Water Management Basin, 1986–2010

**By Donald V. Arvin, U.S. Geological Survey
Ralph Spaeth, Indiana Department of Natural Resources
And Allison M. Mann, Indiana Department of Natural Resources**

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Contents

Introduction	1
Statewide Data.....	4
County Data	6
Adams	7
Allen	8
Bartholomew	9
Benton.....	10
Blackford	11
Boone.....	12
Brown.....	13
Carroll	14
Cass.....	15
Clark.....	16
Clay.....	17
Clinton	18
Crawford.....	19
Daviess	20
Dearborn	21
Decatur.....	22
Dekalb	23
Delaware	24
Dubois	25
Elkhart.....	26
Fayette	27
Floyd	28
Fountain	29
Franklin	30
Fulton	31
Gibson.....	32
Grant	33
Greene	34
Hamilton	35
Hancock	36
Harrison.....	37
Hendricks	38
Henry	39
Howard.....	40
Huntington.....	41

Jackson	42
Jasper	43
Jay	44
Jefferson	45
Jennings.....	46
Johnson.....	47
Knox.....	48
Kosciusko.....	49
Lagrange	50
Lake	51
Laporte	52
Lawrence.....	53
Madison.....	54
Marion	55
Marshall.....	56
Martin	57
Miami	58
Monroe.....	59
Montgomery	60
Morgan	61
Newton	62
Noble.....	63
Ohio	64
Orange	65
Owen.....	66
Parke.....	67
Perry	68
Pike	69
Porter	70
Posey	71
Pulaski.....	72
Putnam.....	73
Randolph.....	74
Ripley	75
Rush.....	76
St. Joseph	77
Scott	78
Shelby	79
Spencer.....	80
Starke.....	81
Steuben.....	82
Sullivan.....	83
Switzerland.....	84
Tippecanoe	85
Tipton	86
Union.....	87
Vanderburgh	88
Vermillion	89

Vigo.....	90
Wabash.....	91
Warren	92
Warrick.....	93
Washington	94
Wayne.....	95
Wells	96
White.....	97
Whitley	98
Water Management Basin Data	99
Lake Michigan Basin	100
St. Joseph River Basin.....	101
Kankakee River Basin.....	102
Maumee River Basin.....	103
Upper Wabash River Basin.....	104
Middle Wabash River Basin	105
White and West Fork White River Basin	106
East Fork White River Basin	107
Whitewater River Basin.....	108
Patoka River Basin.....	109
Ohio River Basin	110
Lower Wabash River Basin.....	111

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Introduction

The Water Resource Management Act (Indiana Code 14-25-7, previously 13-2-6.1), passed by the State Legislature in 1983, mandates that owners of all wells and surface water intakes register with the Indiana Department of Natural Resources (IDNR), Division of Water if their pumping facilities have the capability of withdrawing 100,000 gallons or more of water per day (equivalent to about 70 gallons or more per minute). The law pertains to both stationary and portable pumps. Registration requirements are based on pump capacity, not actual water withdrawals. Beginning in 1996, by act of the legislature, landfill facilities were exempted from the requirement to register and report their withdrawals.

In accordance with the Water Resource Management Act, the Division of Water, since 1985, has been conducting an inventory of the state's significant water withdrawal facilities. This inventory includes information on the numbers of significant water withdrawal facilities throughout the state, along with the numbers of registered ground water wells and surface water intakes, the amounts of water withdrawn, and the pump withdrawal capacities.

Withdrawal capacity is the amount of water a pump is capable of pumping, whereas a withdrawal is the amount of water a pump actually withdrew from a surface or ground water source. Data in this water use inventory can be aggregated by category of use and also by statewide total, by county, and by Water Management Basin.

Every year, the Division of Water mails a reporting form to each registered facility. The facility owners ensure that the forms are completed and returned to the agency. The facility owner's best estimates of total monthly withdrawals for each pump are listed on the form. Reported withdrawals at some sites are based on flowmeter readings, although flowmeters are not mandated. Reported withdrawals at other sites are based on the pump capacity multiplied by the hours of pump operation. At other sites, alternative techniques are used to produce estimates of withdrawals. In 2010, there were withdrawal data for 3,643 active registered facilities.

The aggregated withdrawal data presented in this report are based on the site-specific withdrawal data reported by facility owners. The withdrawal data were entered into the Division of Water water use database after review by the IDNR personnel. Values stored in

the database were quality assured by IDNR personnel for data accuracy, and by automated computer programs for reasonability based on pump capacity, reported pump time, and withdrawals for the previous year.

This report presents a summary of annual water withdrawals for the period of available data by showing graphs of statewide totals, graphs for each of the 92 counties, and graphs for each of the 12 Water Management Basins (fig. 1). Withdrawals are aggregated by source (ground water or surface water) and by water use category.

The intent of this report is to provide an overview of water use in Indiana. The graphs are intended to show the amounts of water withdrawn in the different geographic areas of the state, for what purpose the water was used, and how the withdrawals changed over time.

Registered significant water withdrawal facilities have been divided into six general water use categories. The categories are described as follows:

Energy Production facilities include those that withdraw water for the primary purpose of power generation, including coal mining operations. A major component in this category is water used for the cooling of condensers at fossil fuel power plants.

Industrial facilities include those that withdraw water primarily for use in the manufacturing process, including sand and gravel operations.

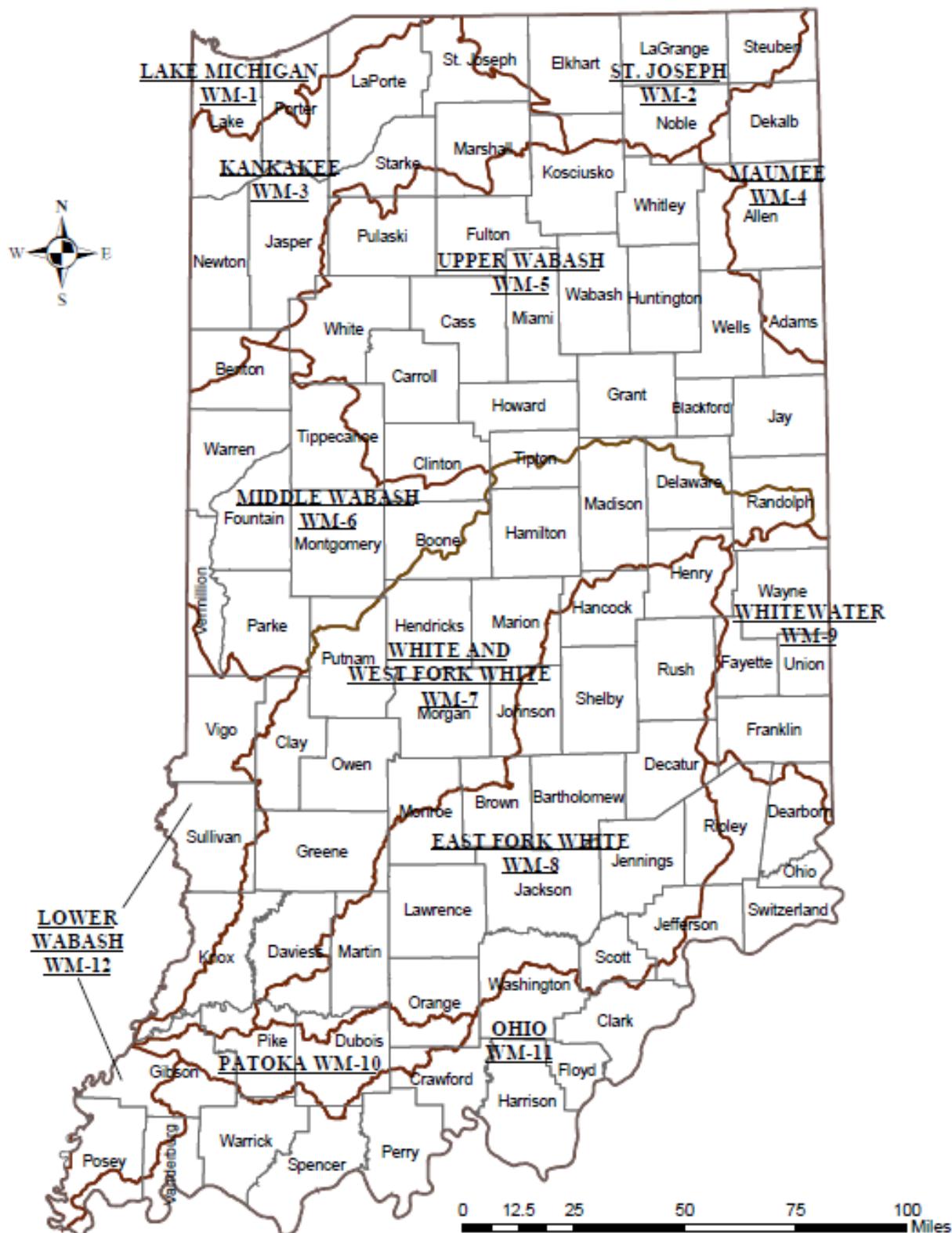
Public Supply facilities include those that withdraw water for the primary purpose of distributing water for use by others and for use in public establishments. These facilities include water supply utilities and self-supplied mobile home parks and apartment complexes. These facilities also include self-supplied schools and other institutions that provide water for use by the general public.

Agricultural facilities include those that withdraw water for the primary purpose of irrigating crops or golf courses, dewatering farm sites and fields, and other similar agricultural practices.

Rural Use facilities include those that withdraw water for the primary purpose of watering livestock and operating fish hatcheries.

Miscellaneous facilities include those that withdraw water for a variety of other uses, including snow-making, operating fish and wildlife areas, lake-level maintenance, and construction dewatering. Landfills were included in this category through 1995, then were exempted from the registration and reporting requirement beginning in 1996.

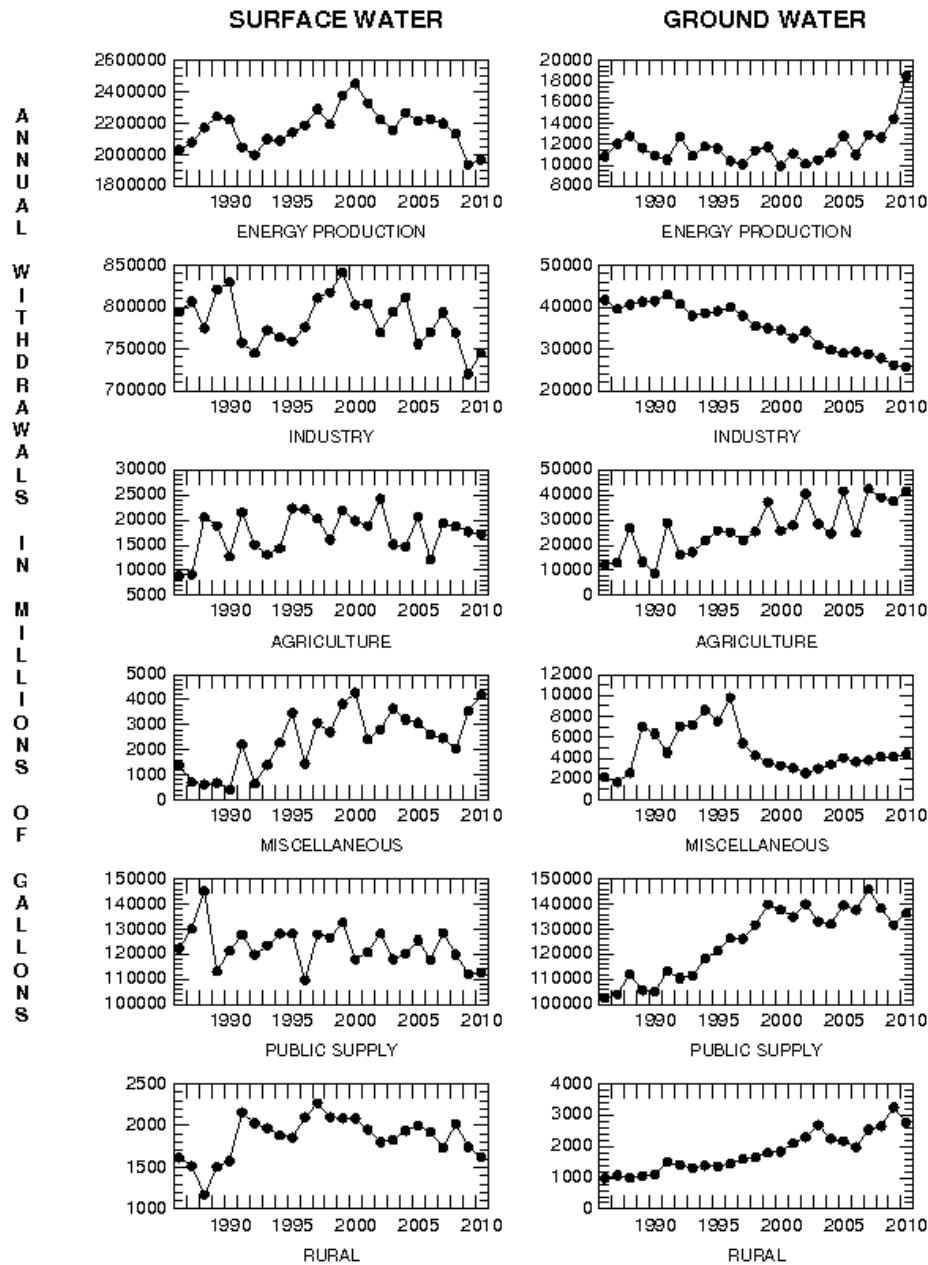
INDIANA WATER MANAGEMENT BASINS



Statewide

Data

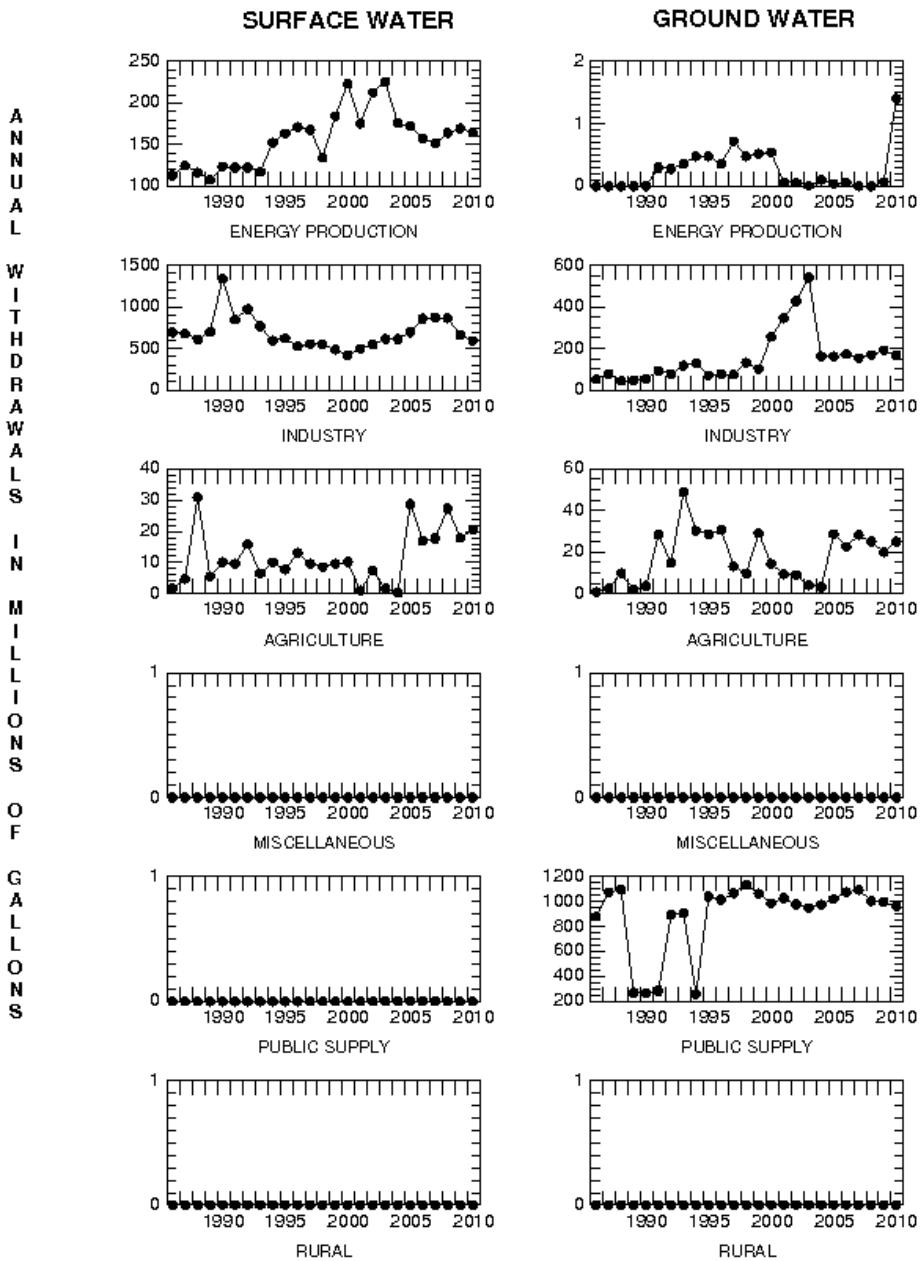
Statewide -- Reported Withdrawals, 1986-2010



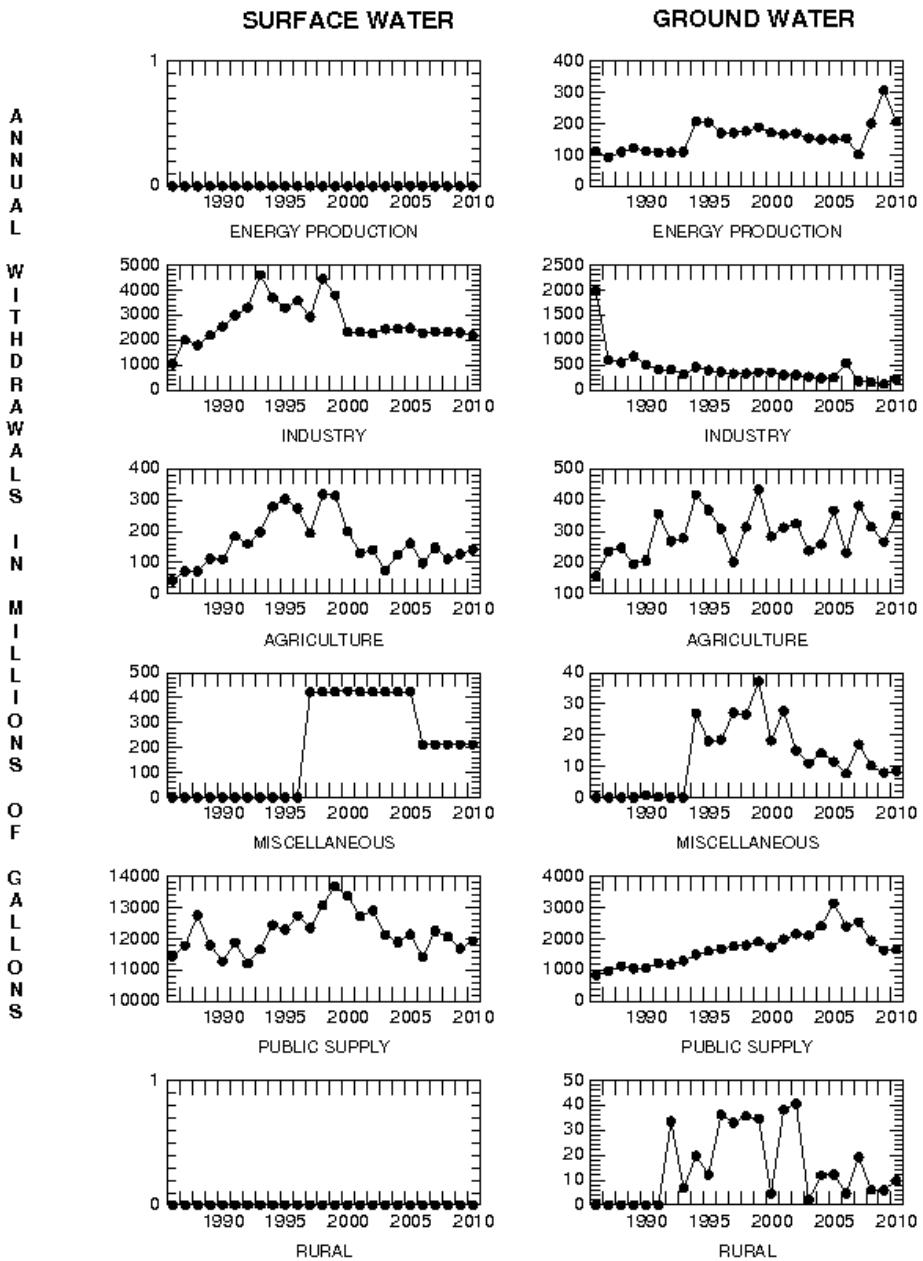
County

Data

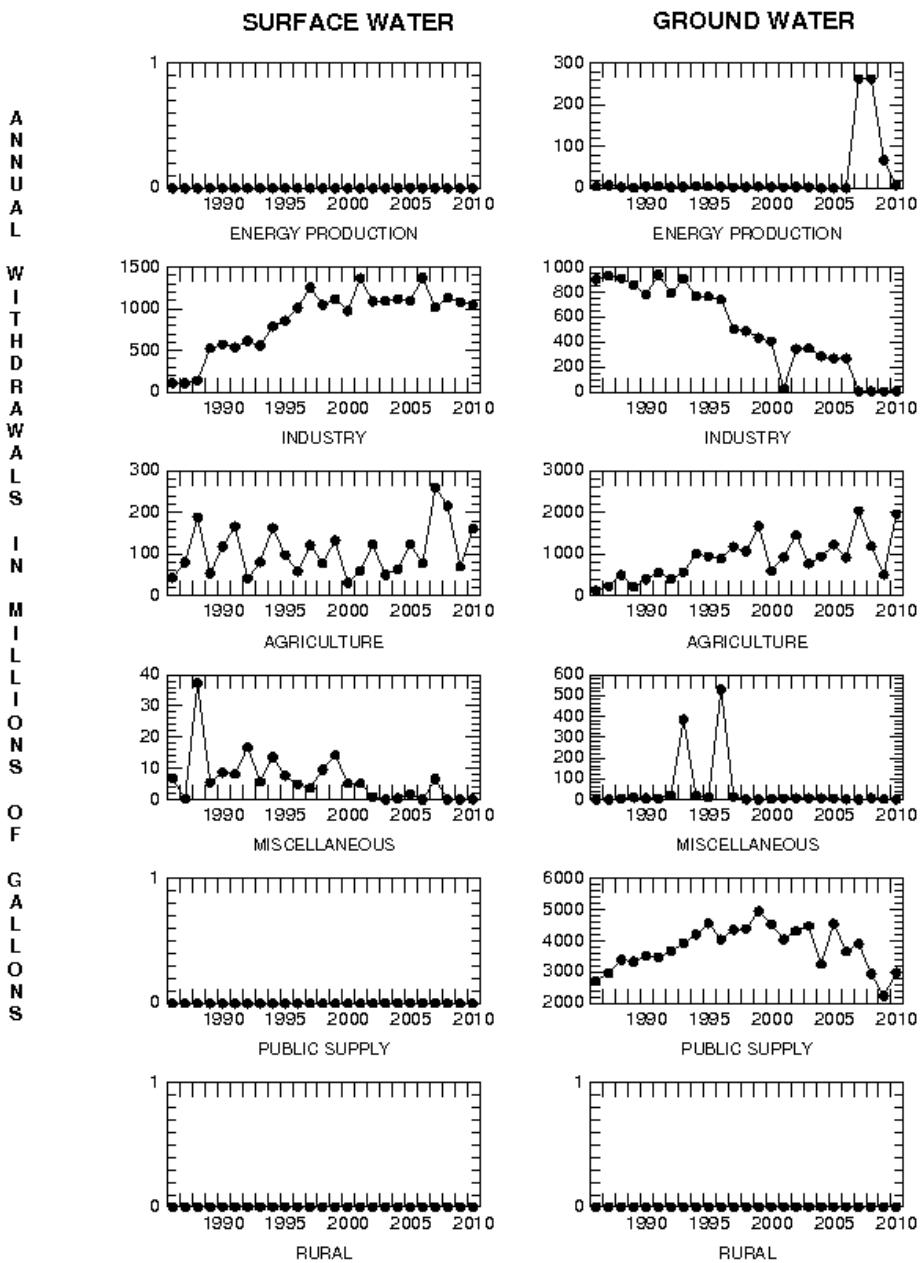
Adams County
Reported Withdrawals, 1986-2010



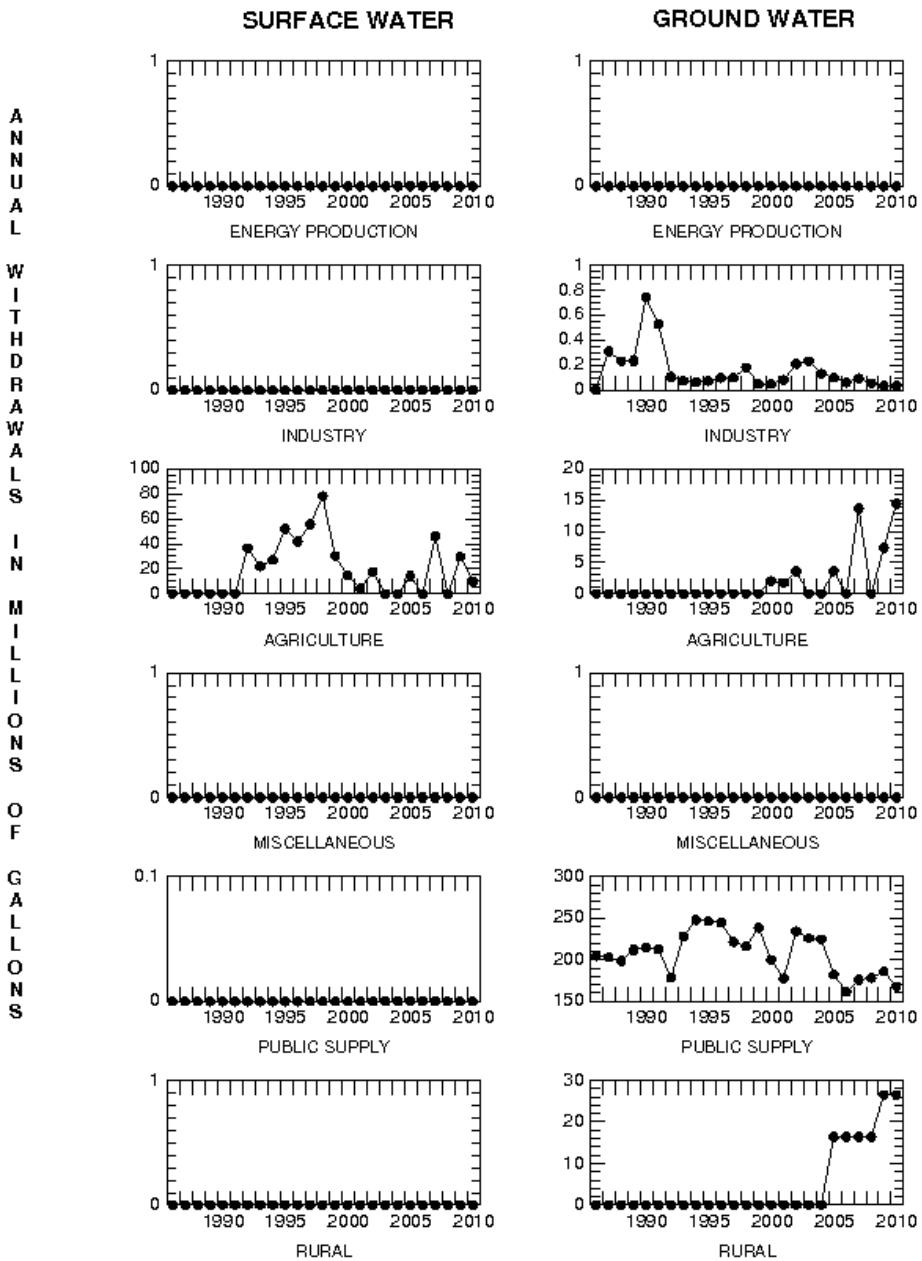
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Reported Withdrawals, 1986-2010



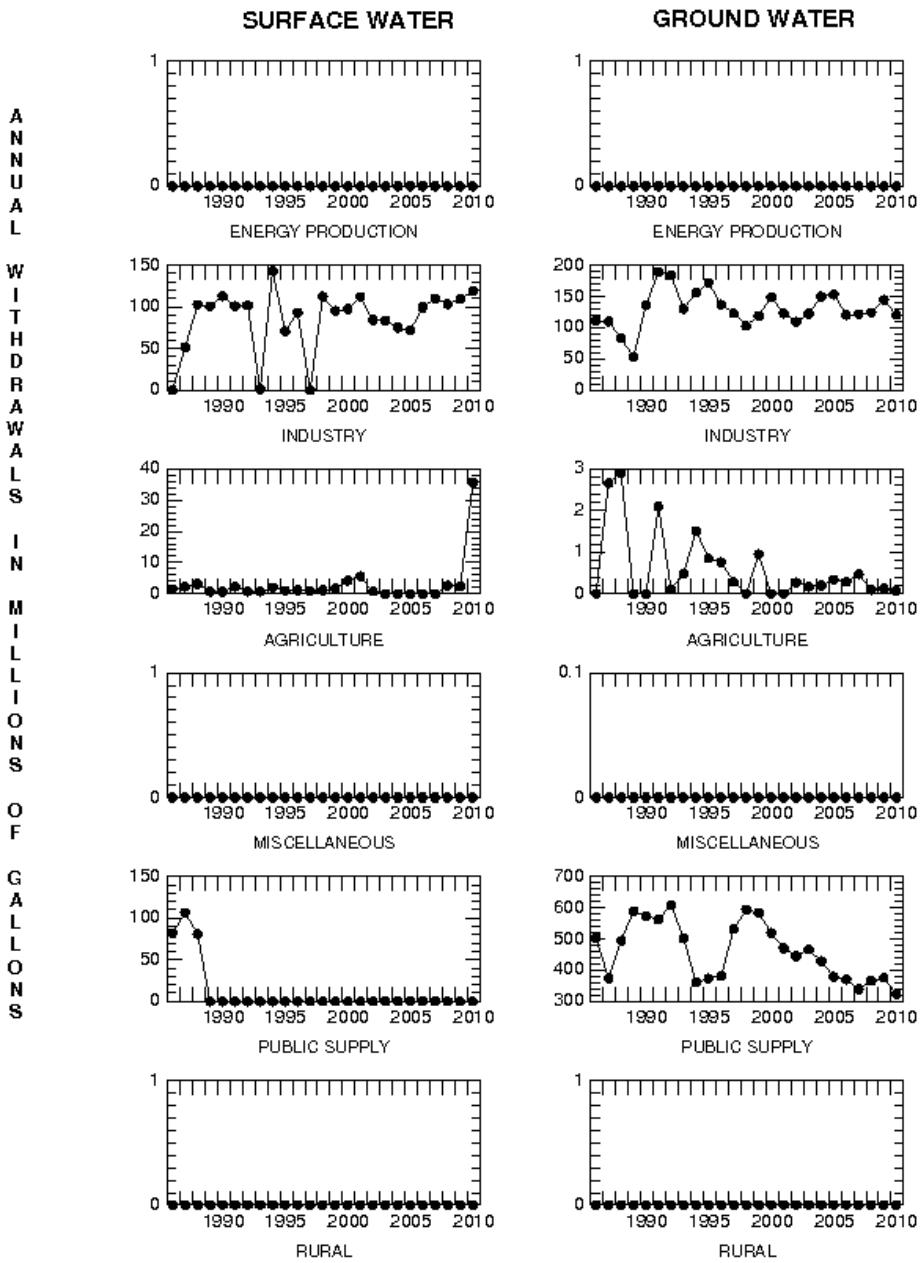
**Bartholomew County
Reported Withdrawals, 1986-2010**



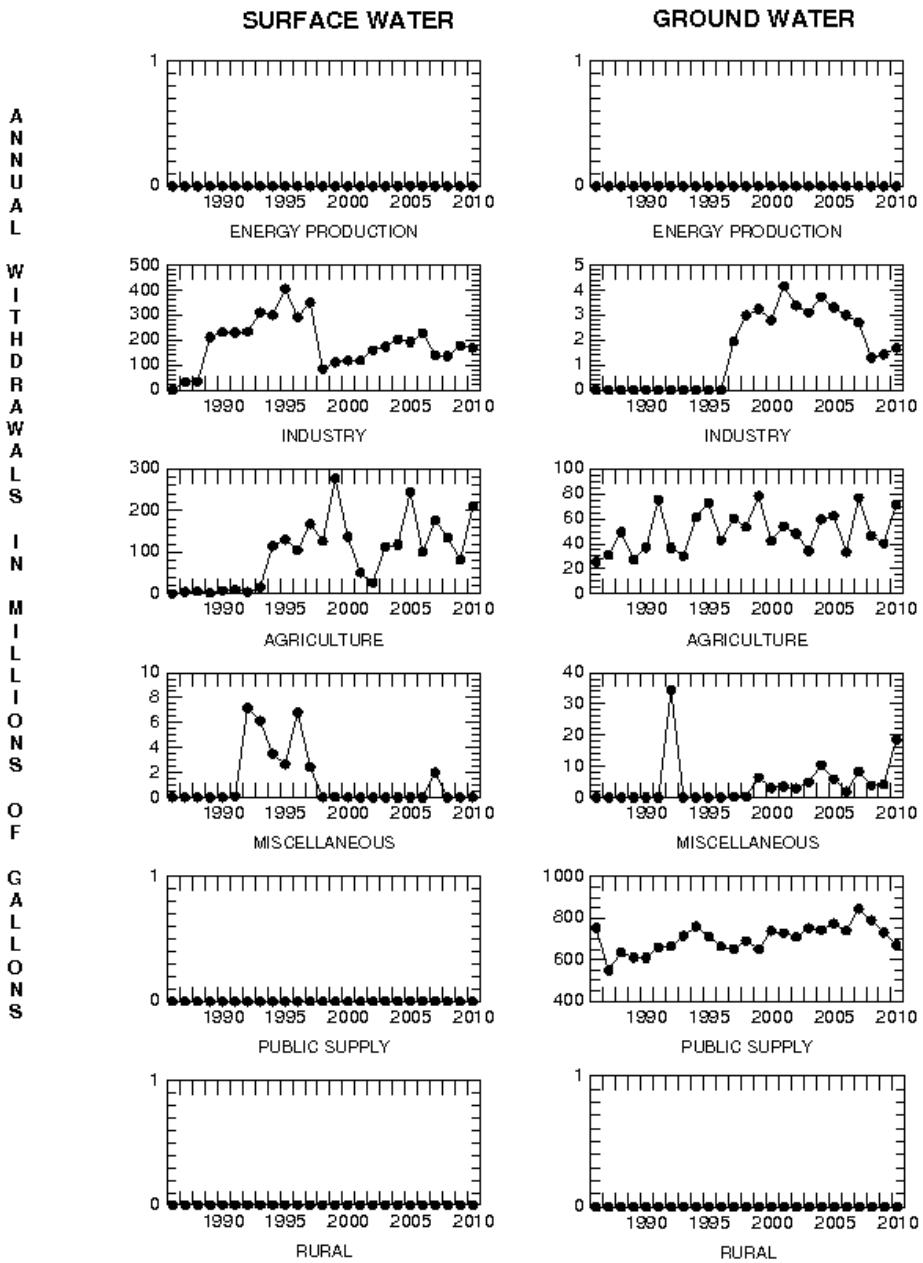
Benton County
Reported Withdrawals, 1986-2010



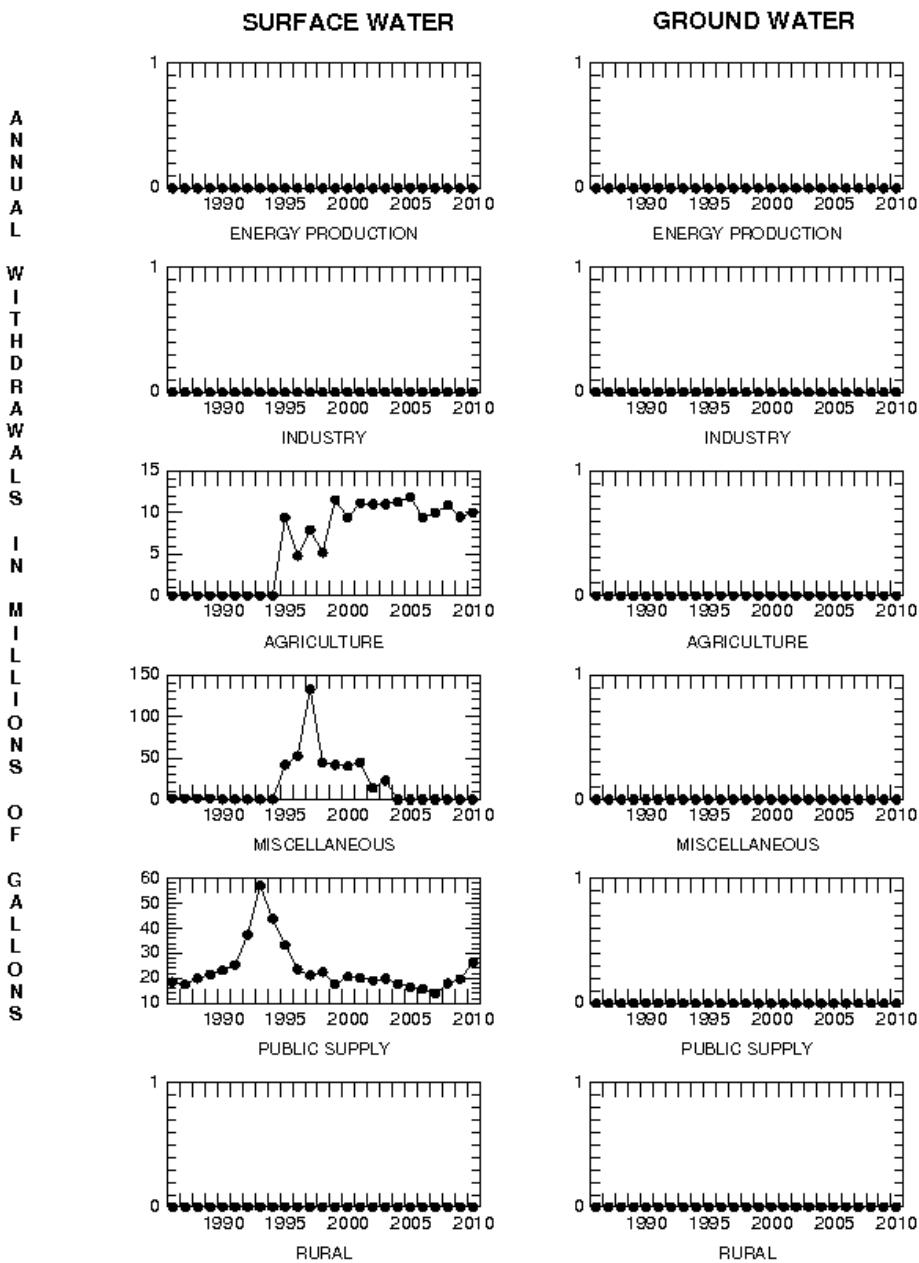
Blackford County
Reported Withdrawals, 1986-2010



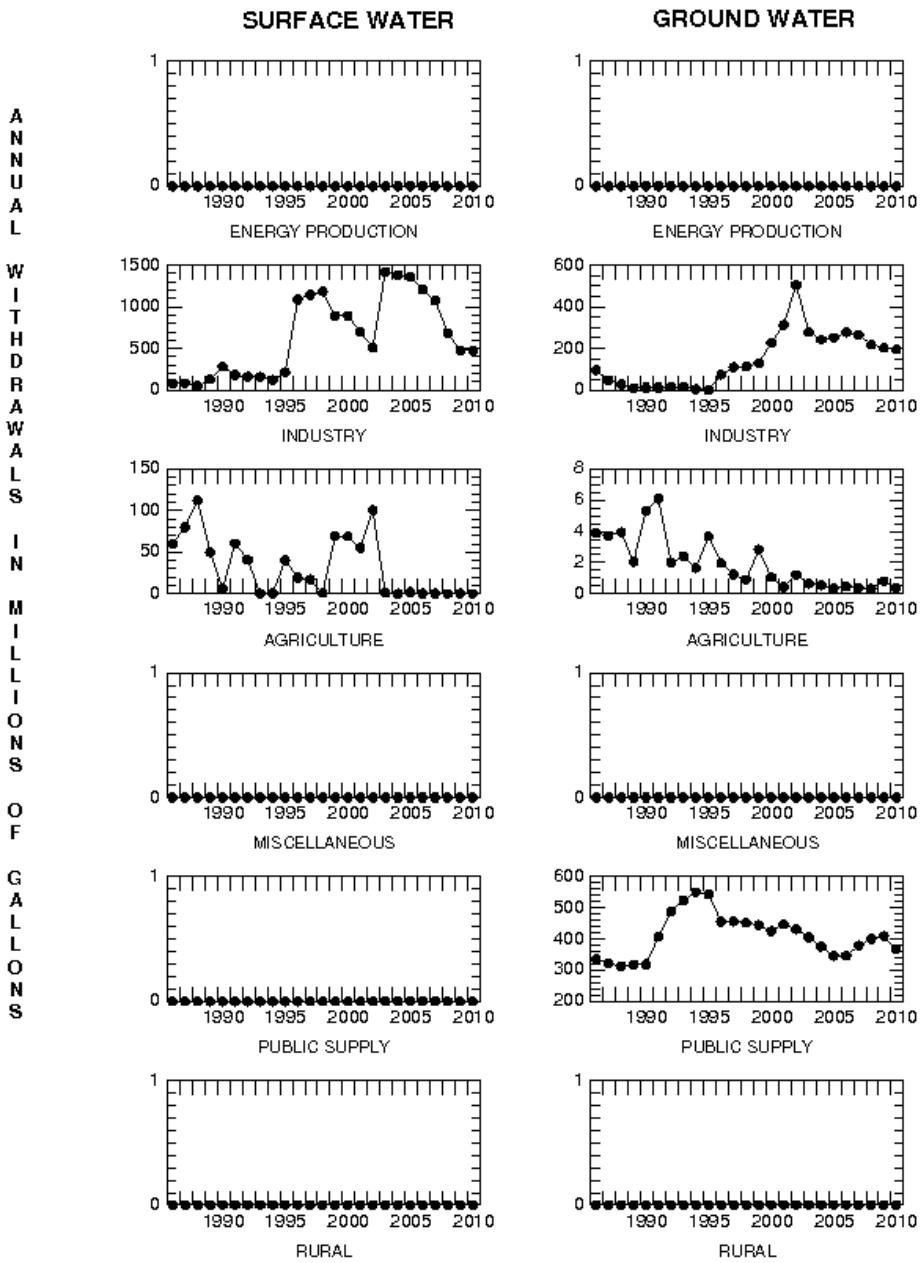
Boone County
Reported Withdrawals, 1986-2010



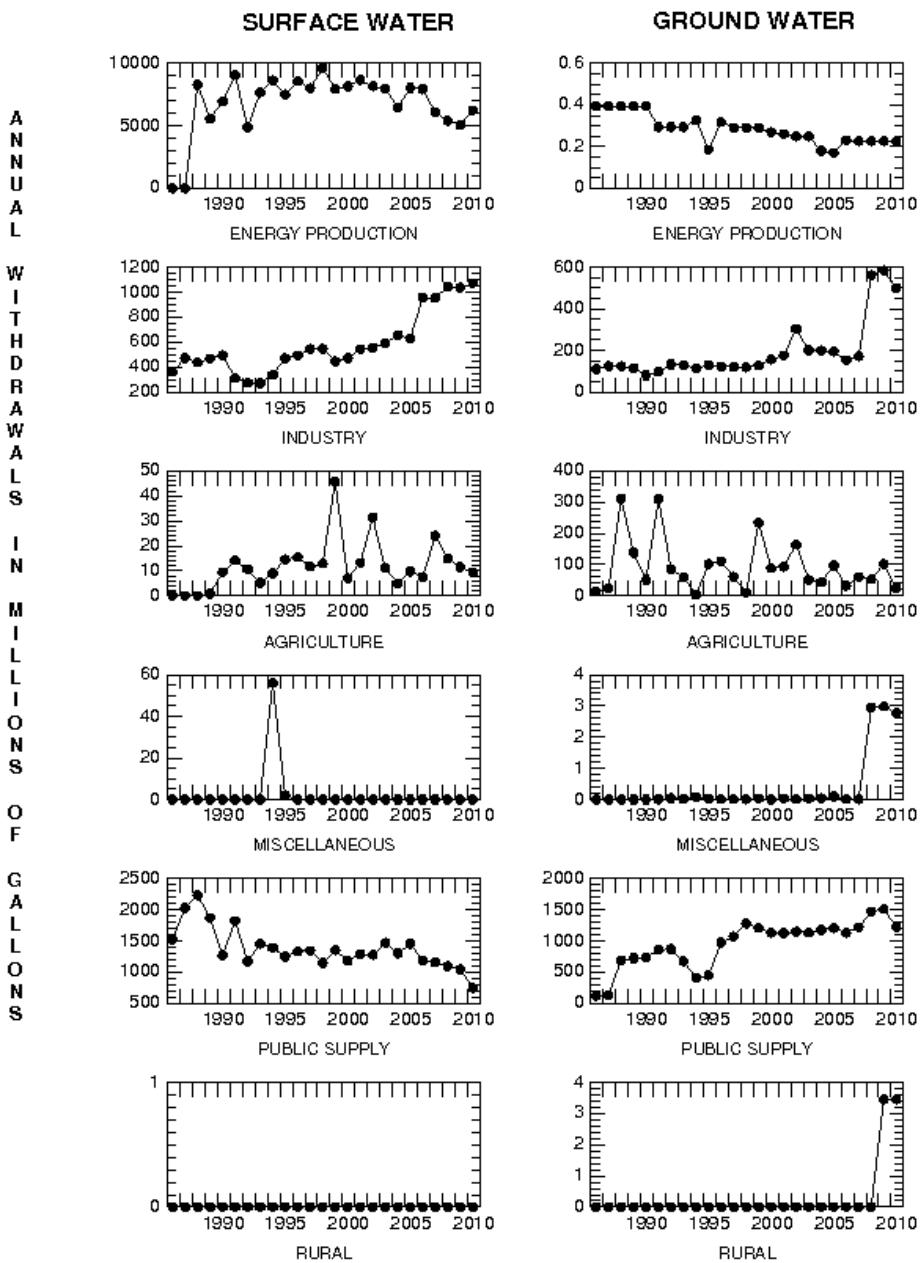
Brown County
Reported Withdrawals, 1986-2010



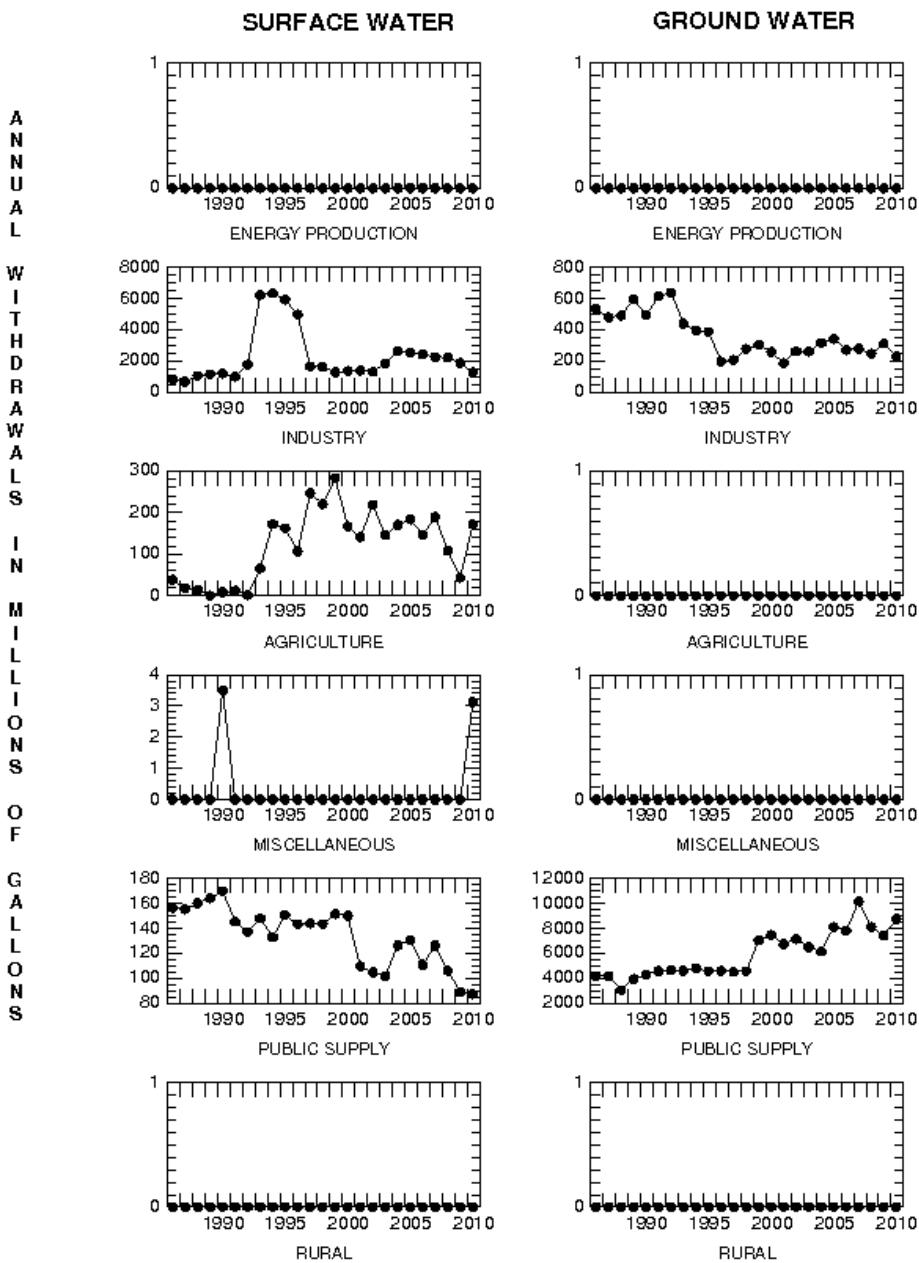
Carroll County
Reported Withdrawals, 1986-2010



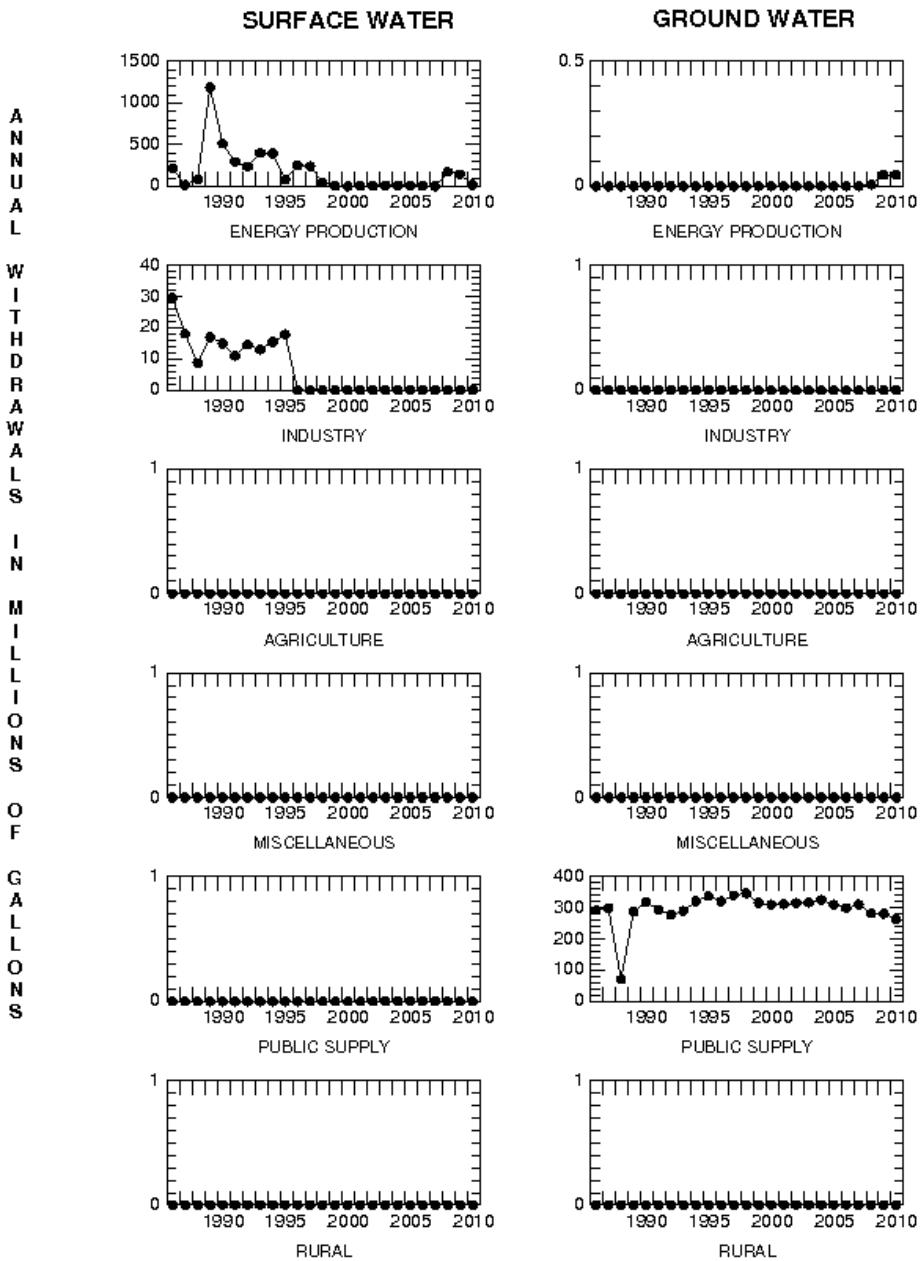
Cass County
Reported Withdrawals, 1986-2010



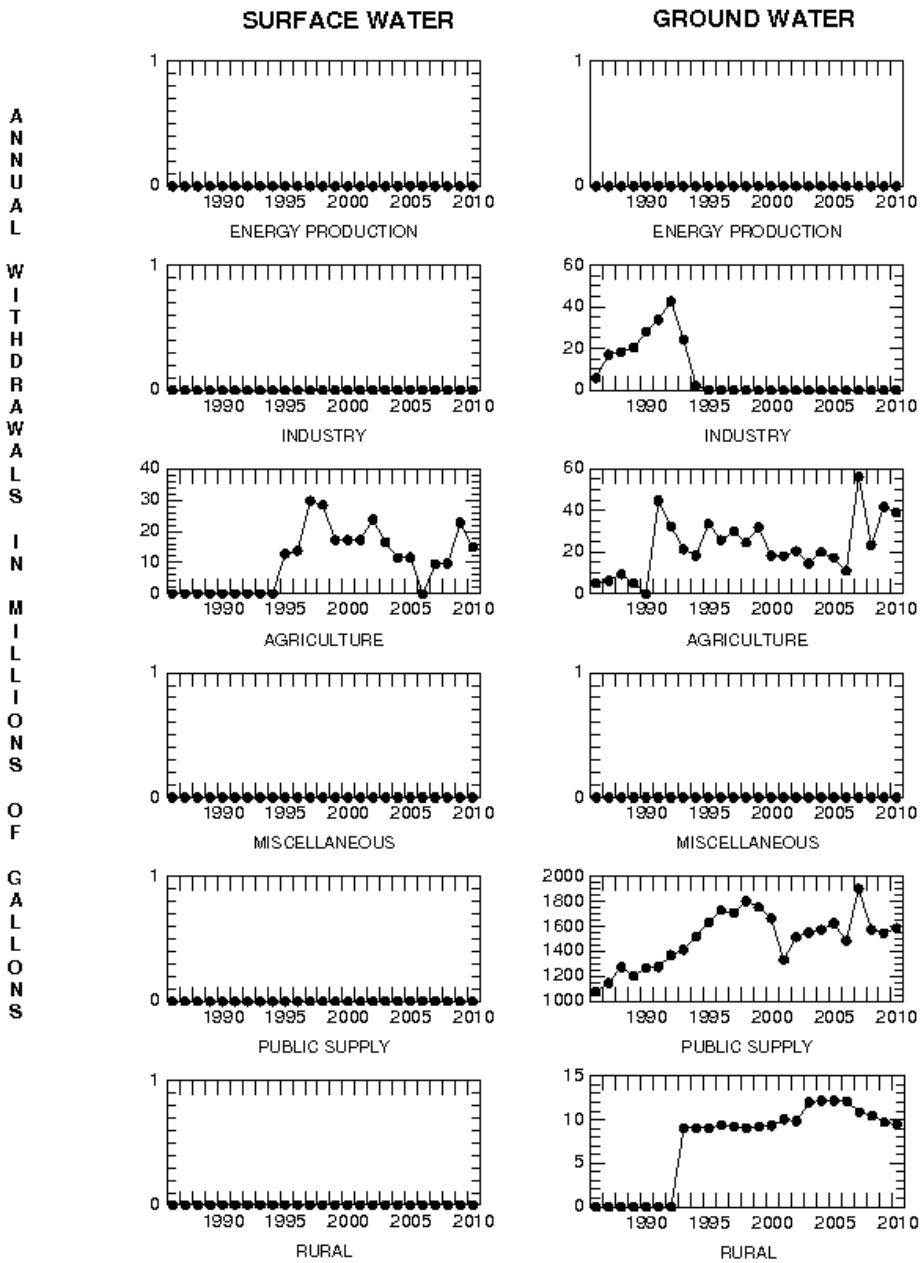
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Reported Withdrawals, 1986-2010**



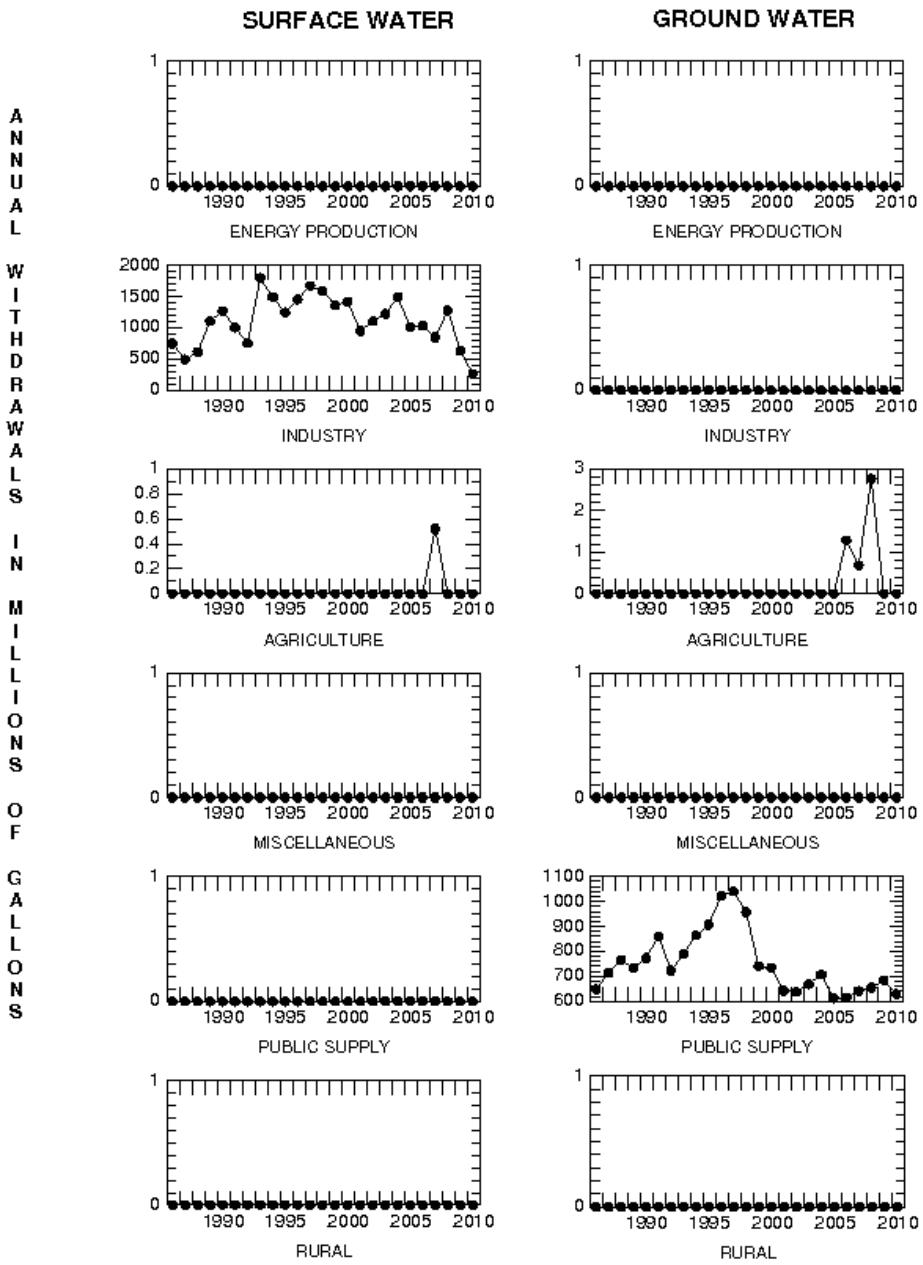
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Reported Withdrawals, 1986-2010



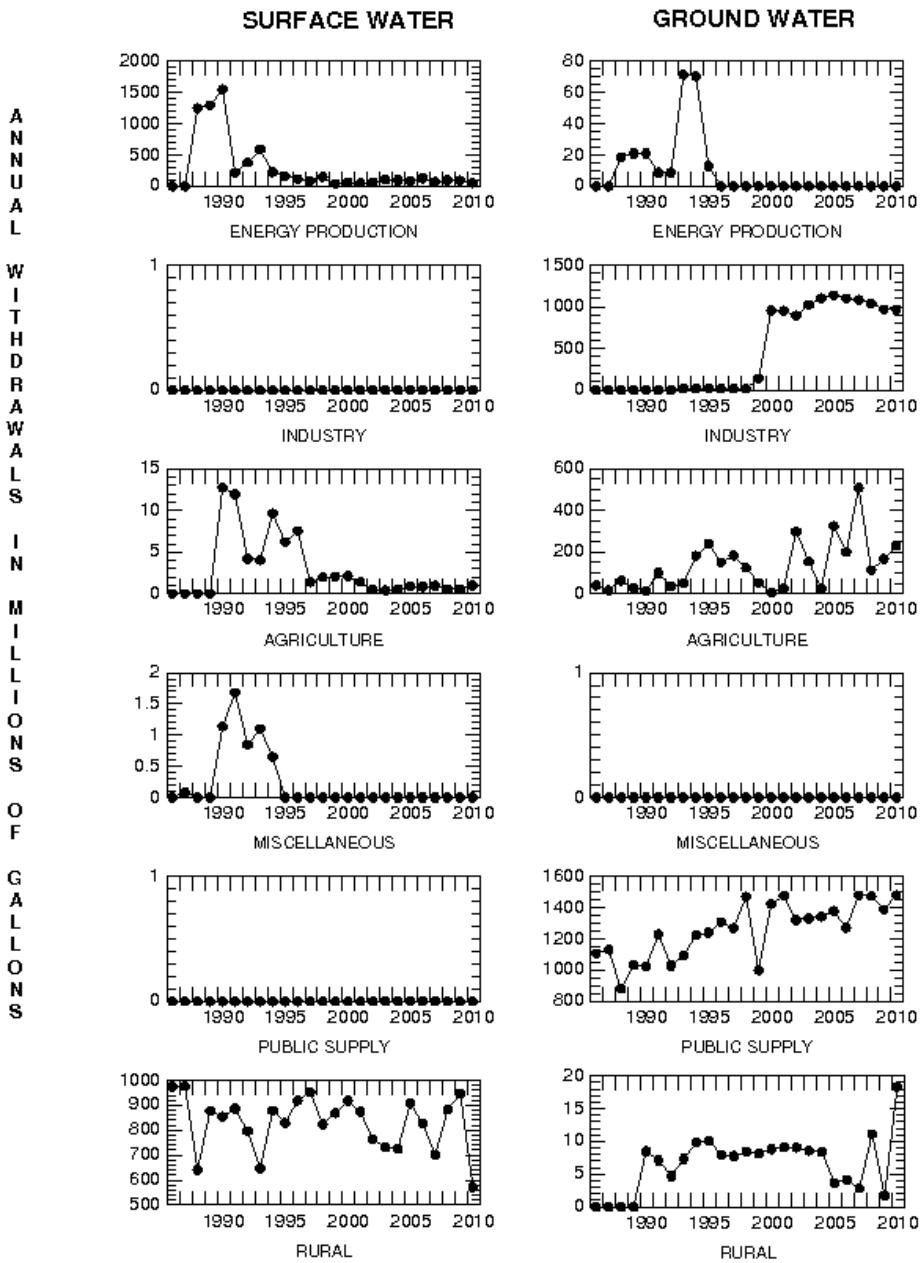
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Reported Withdrawals, 1986-2010



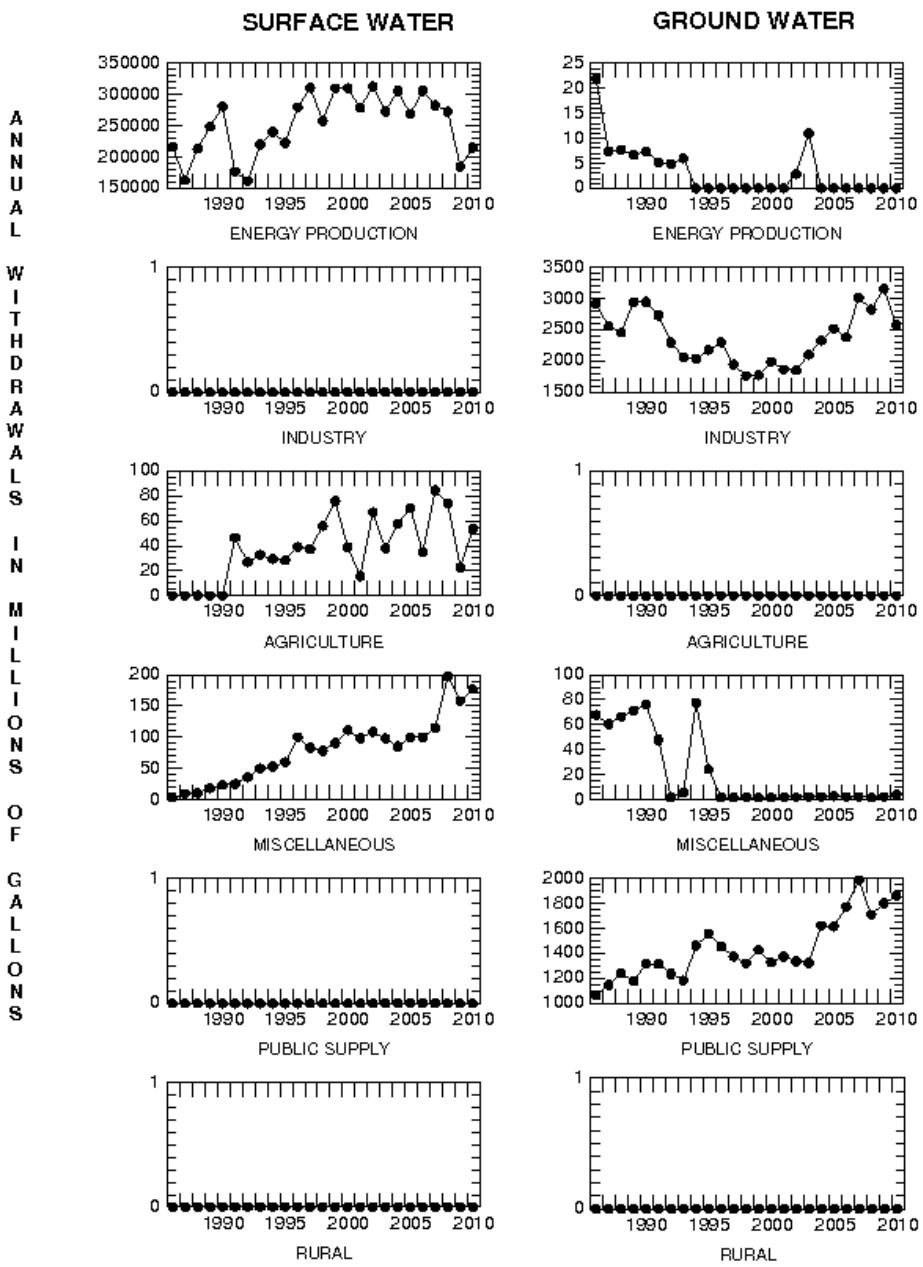
Crawford County
Reported Withdrawals, 1986-2010



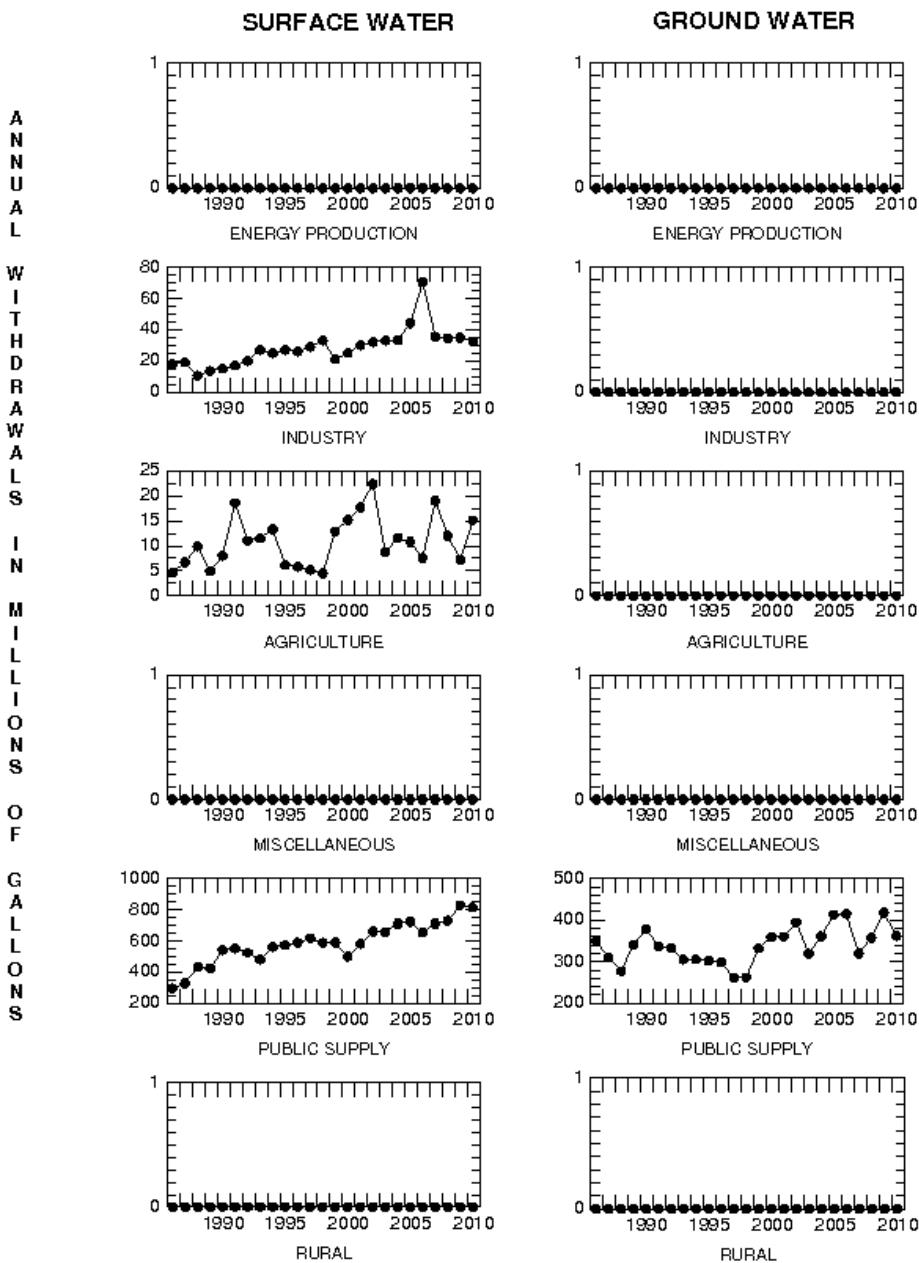
Daviess County
Reported Withdrawals, 1986-2010



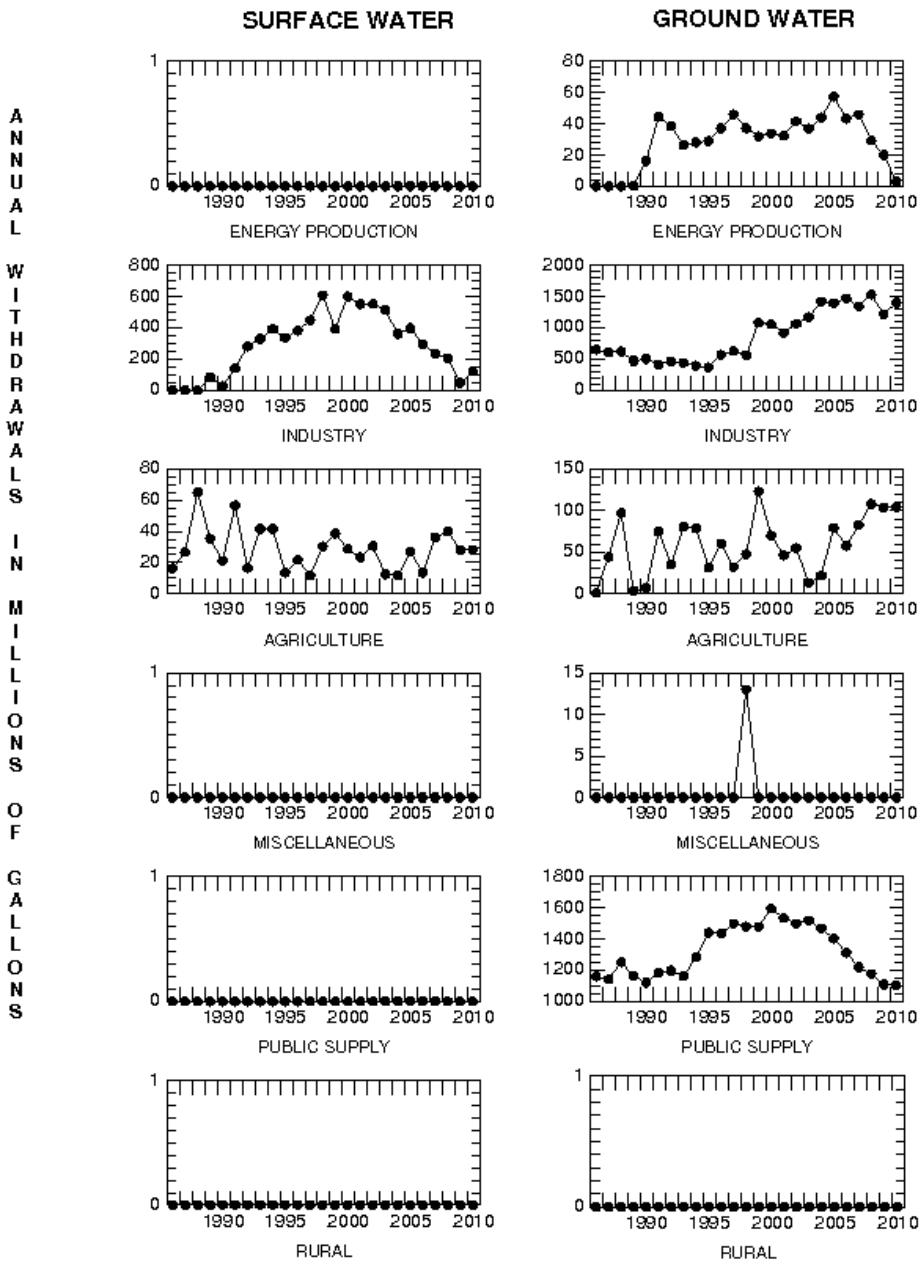
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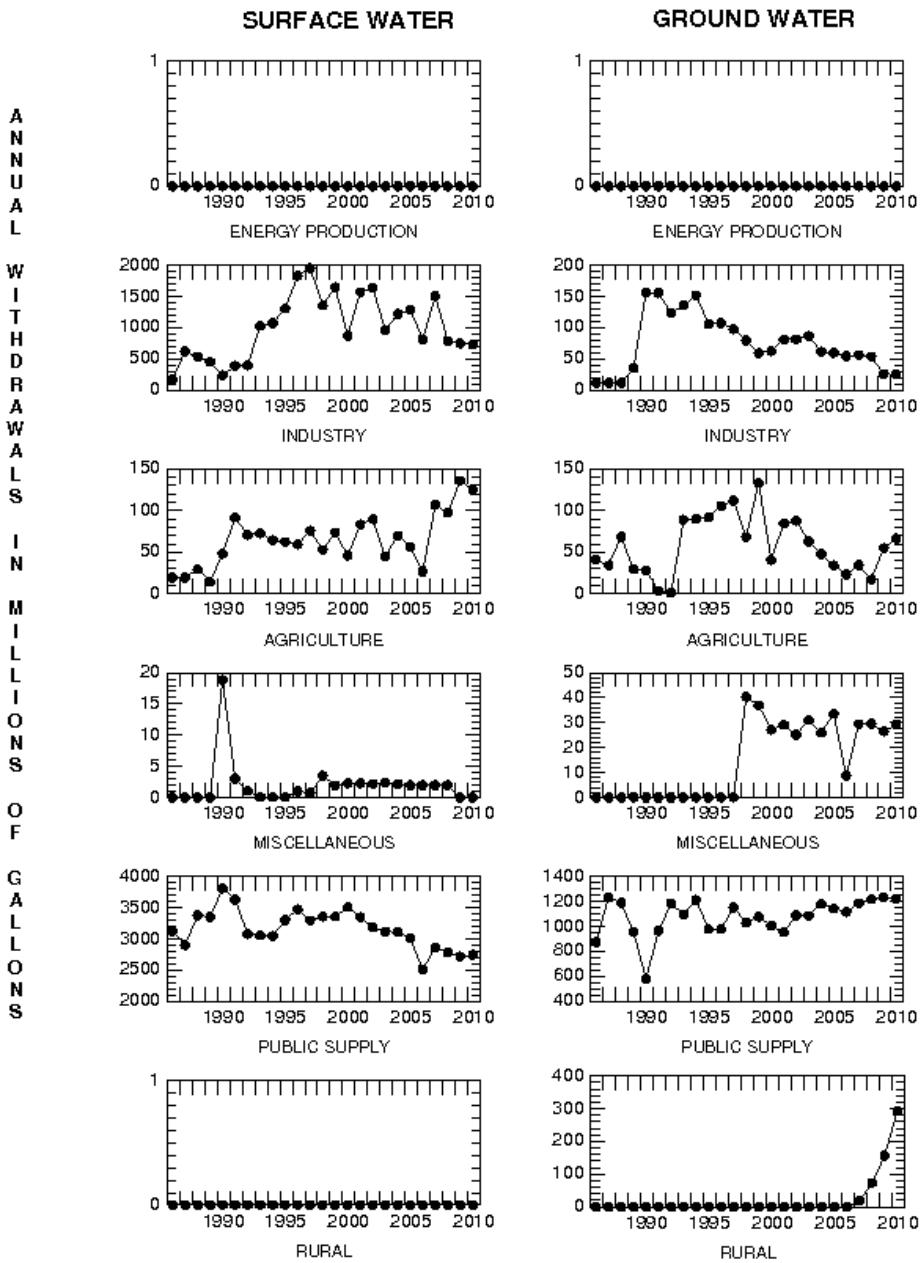
Decatur County
Reported Withdrawals, 1986-2010



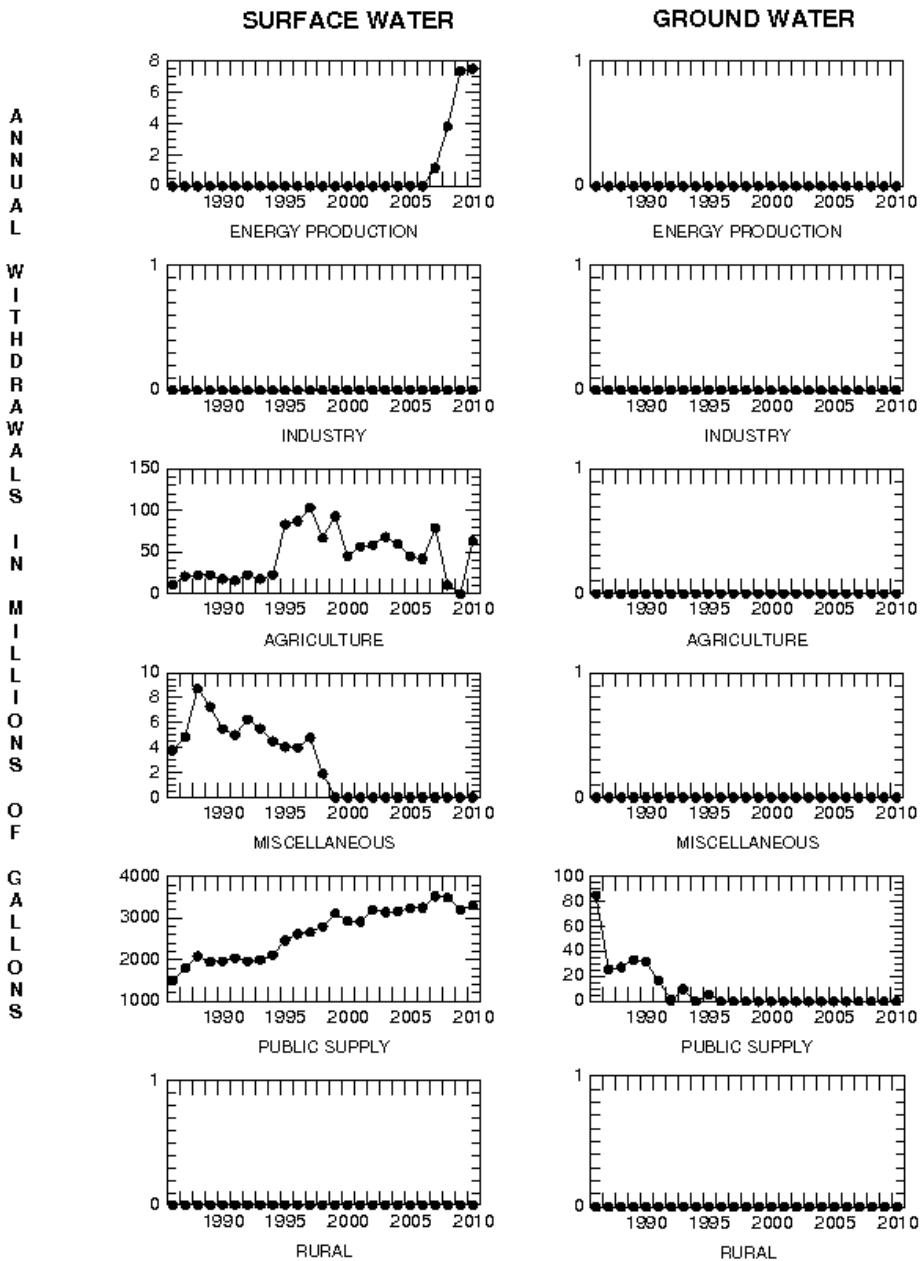
Dekalb County
Reported Withdrawals, 1986-2010



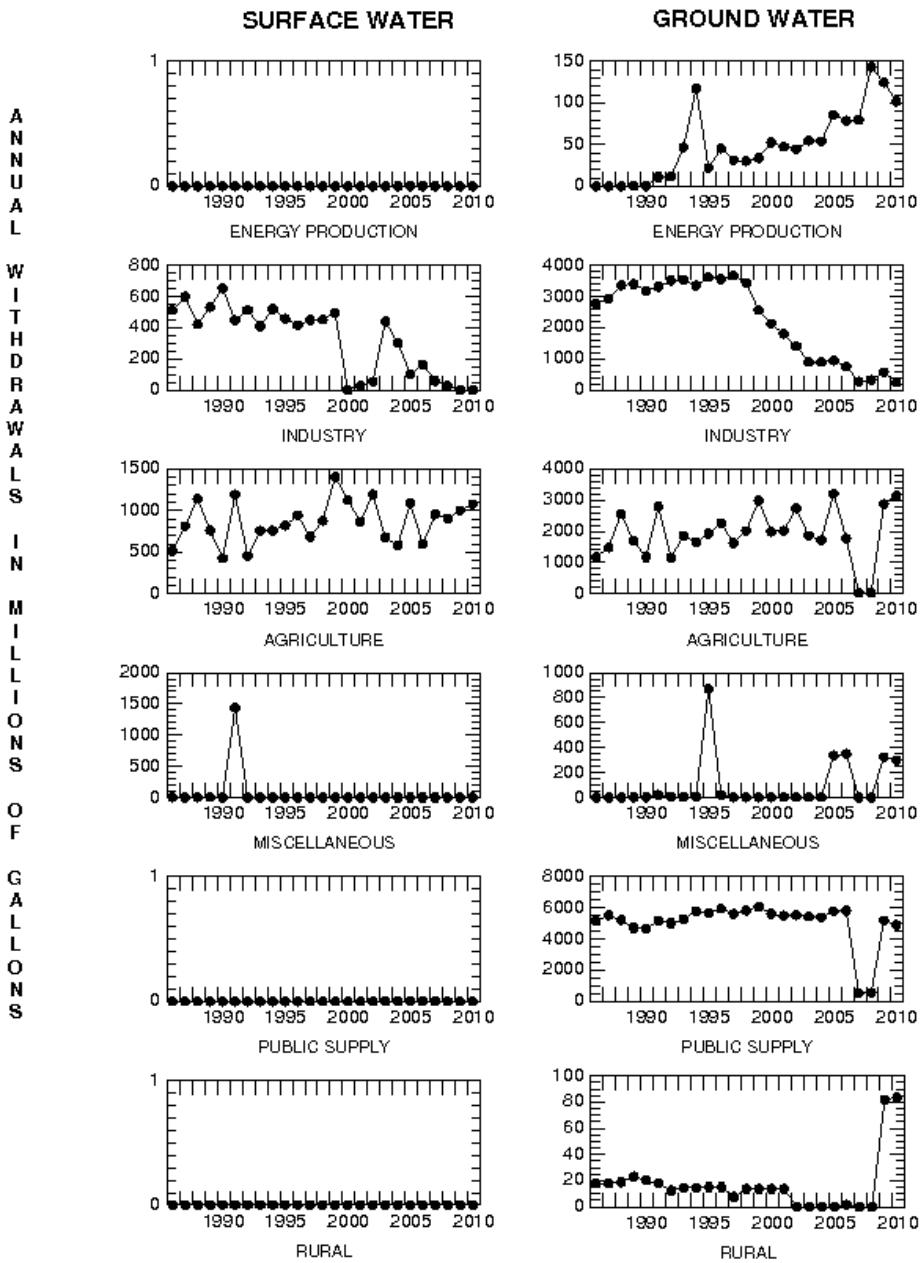
Delaware County
Reported Withdrawals, 1986-2010



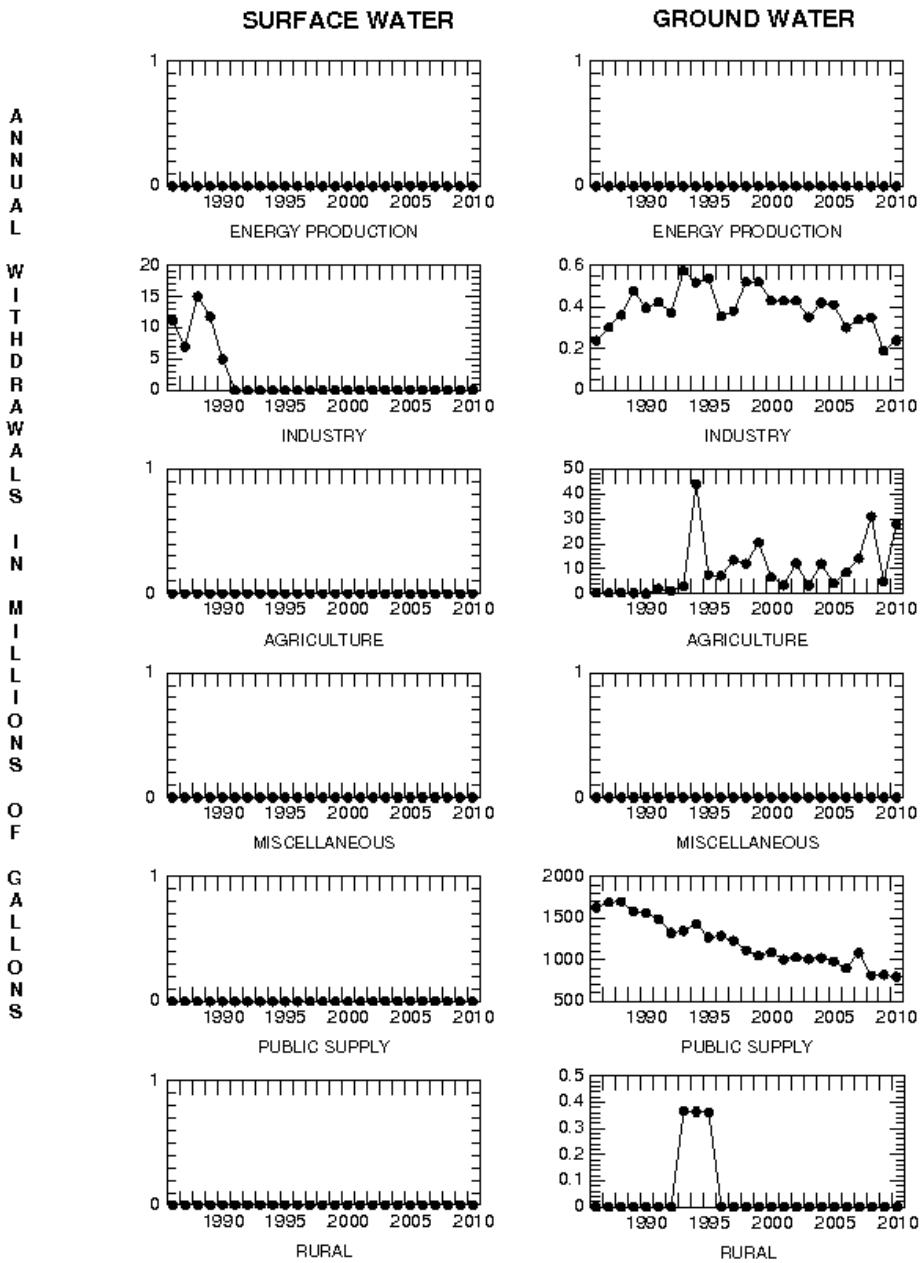
Dubois County
Reported Withdrawals, 1986-2010



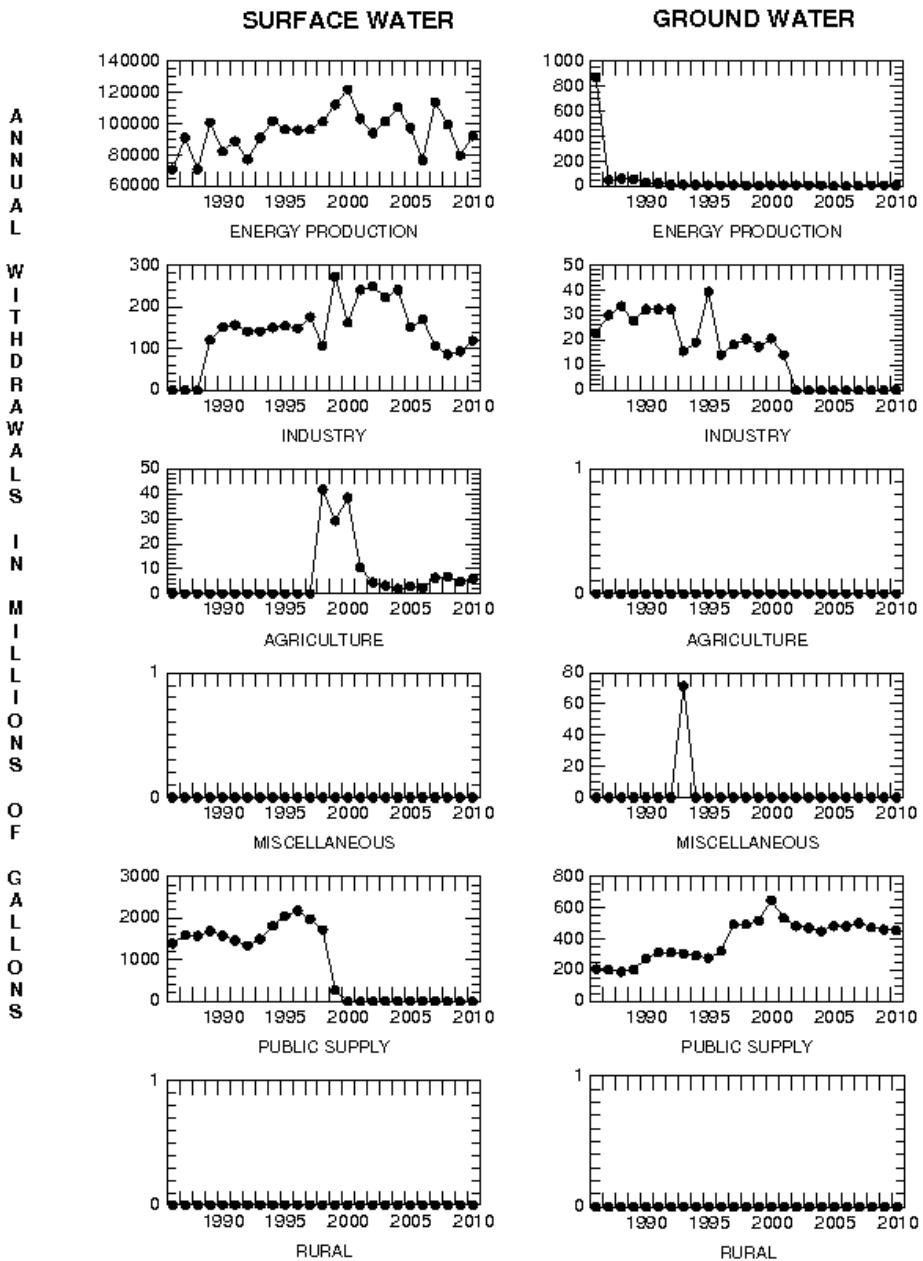
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Reported Withdrawals, 1986-2010



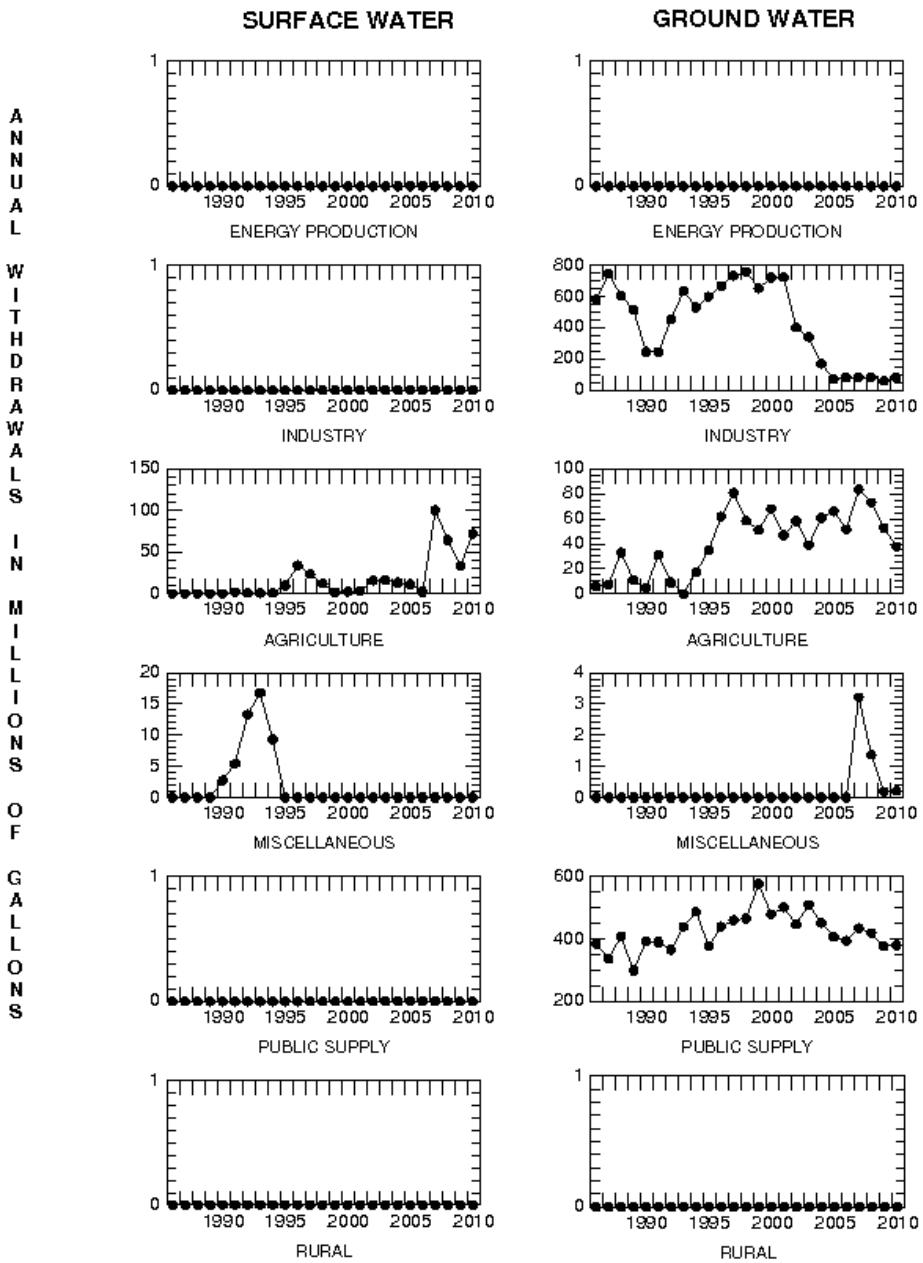
Fayette County
Reported Withdrawals, 1986-2010



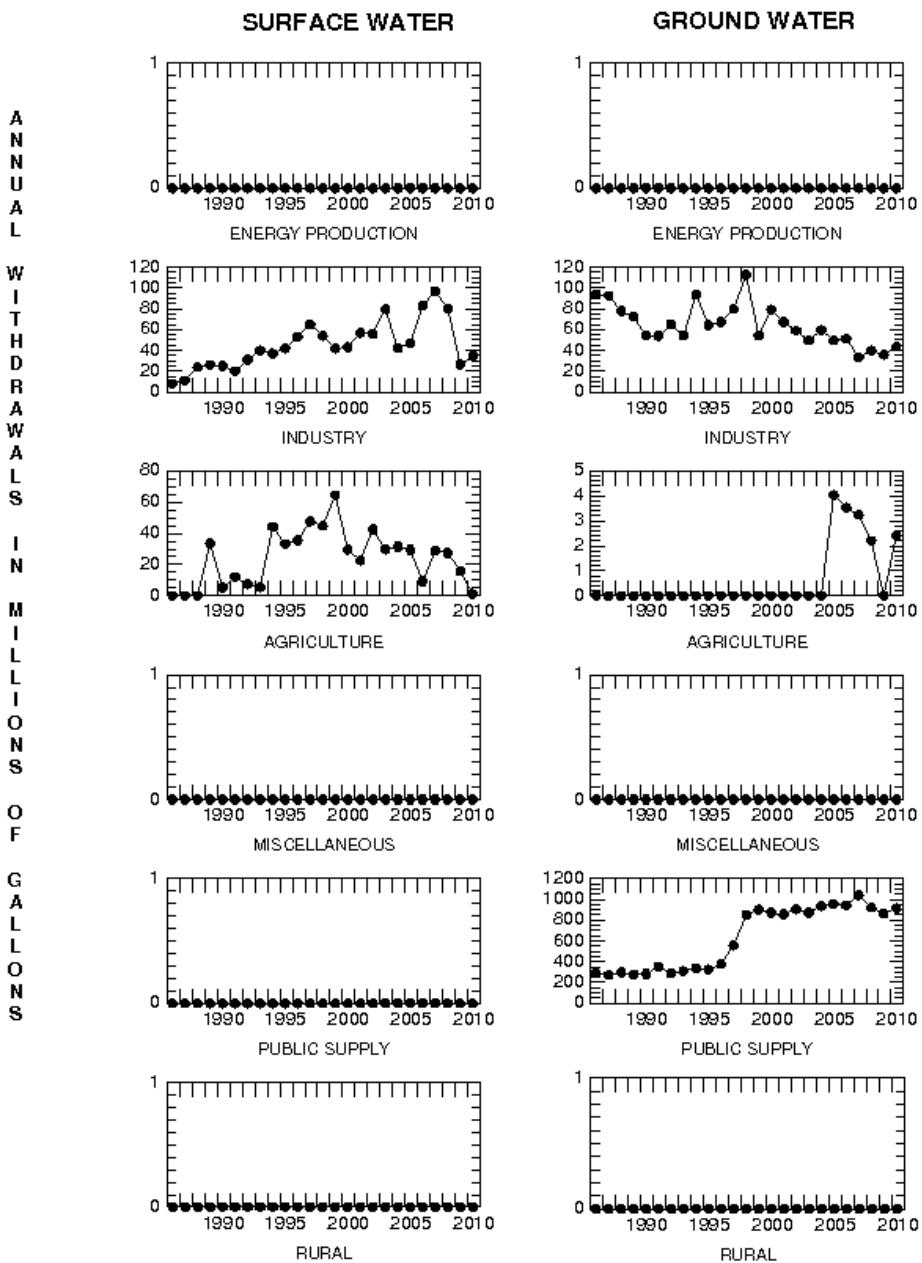
Floyd County
Reported Withdrawals, 1986-2010



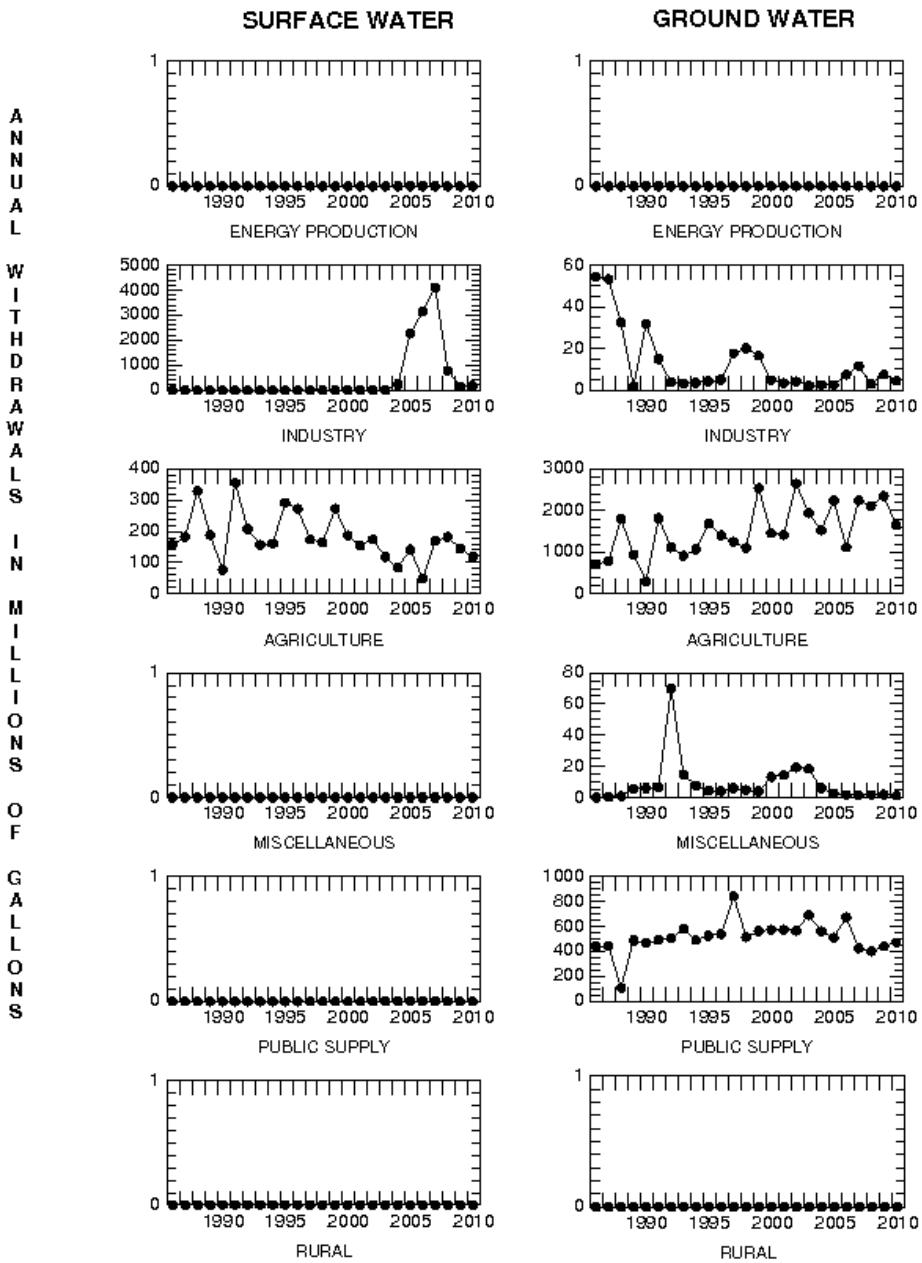
Fountain County
Reported Withdrawals, 1986-2010



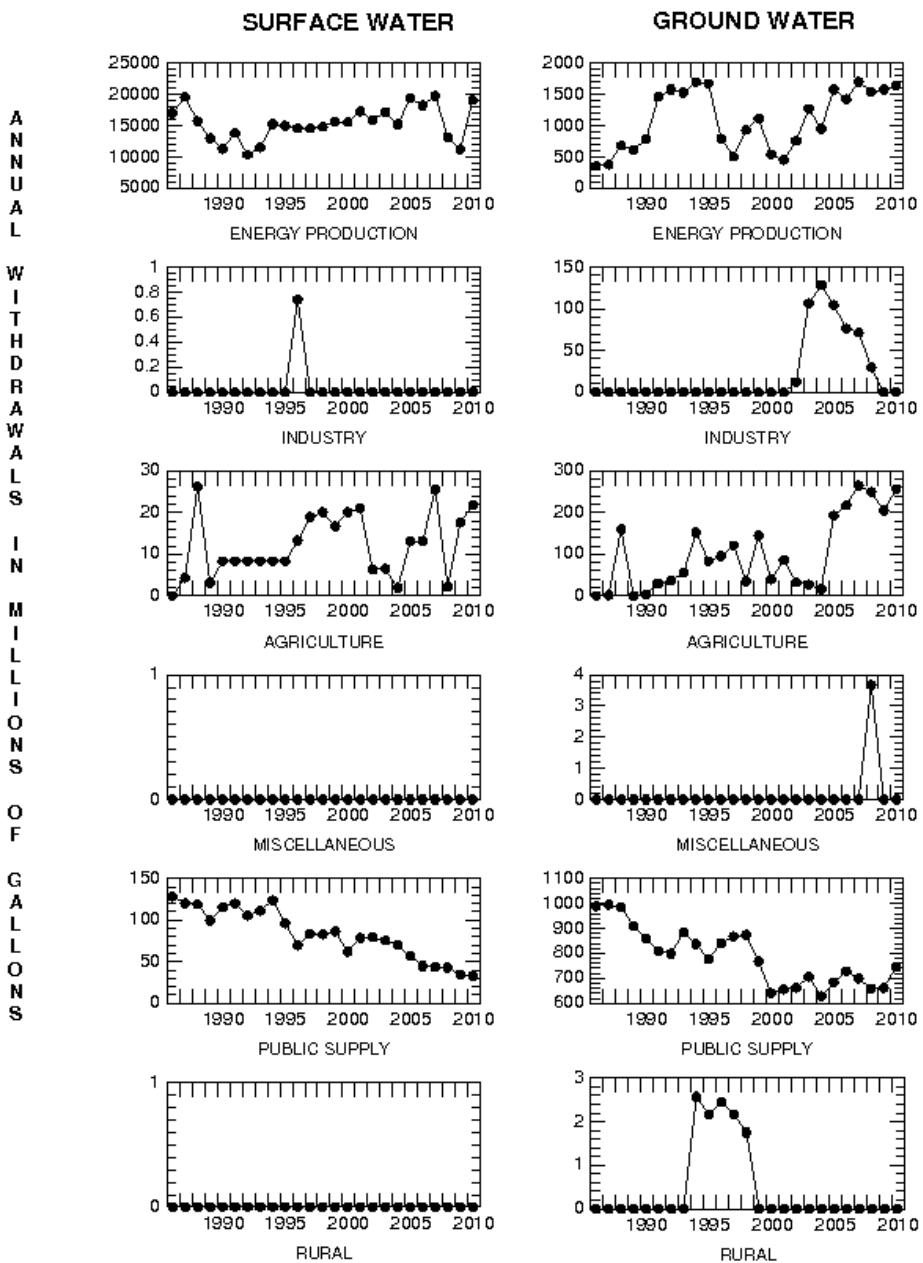
**Franklin County
Reported Withdrawals, 1986-2010**



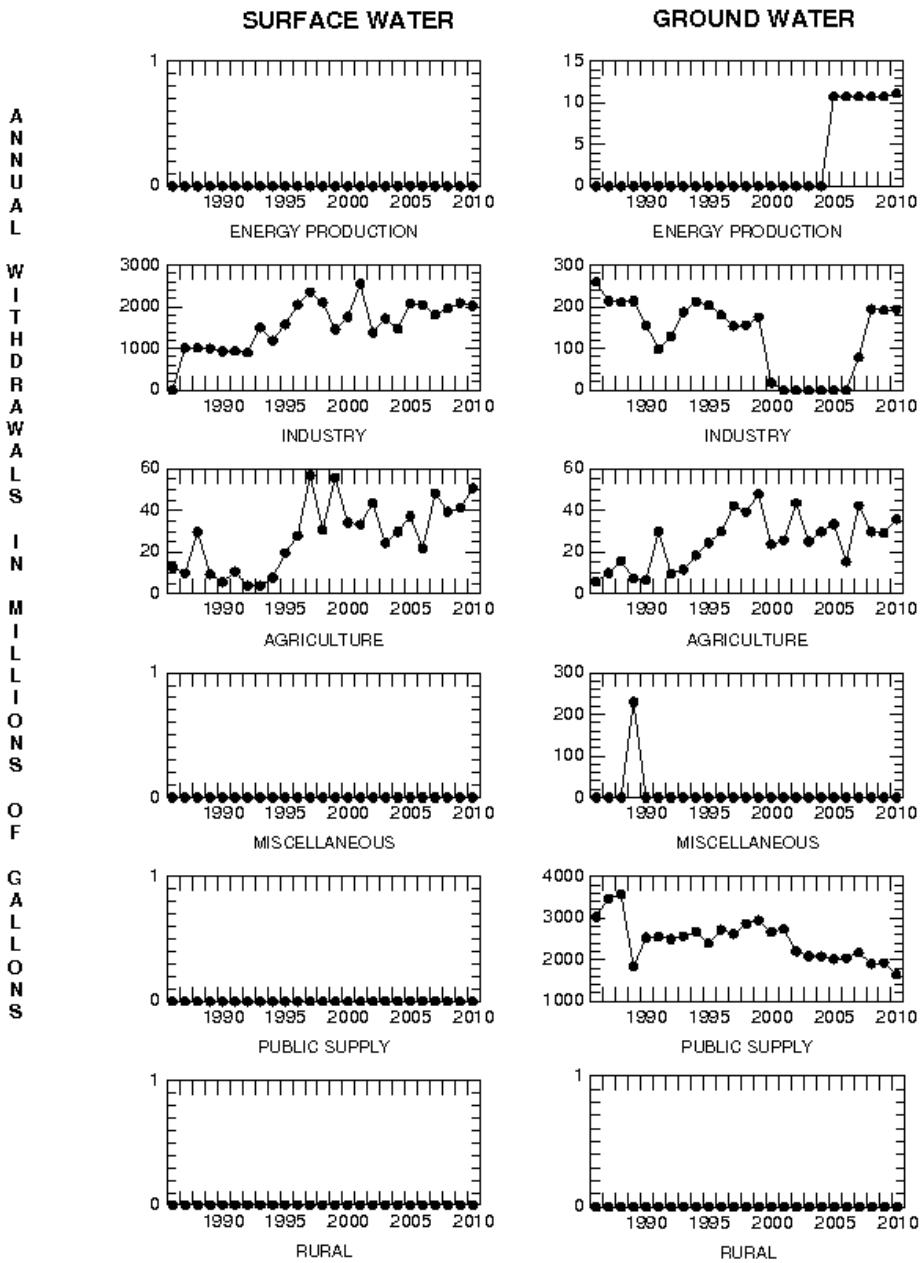
Fulton County
Reported Withdrawals, 1986-2010



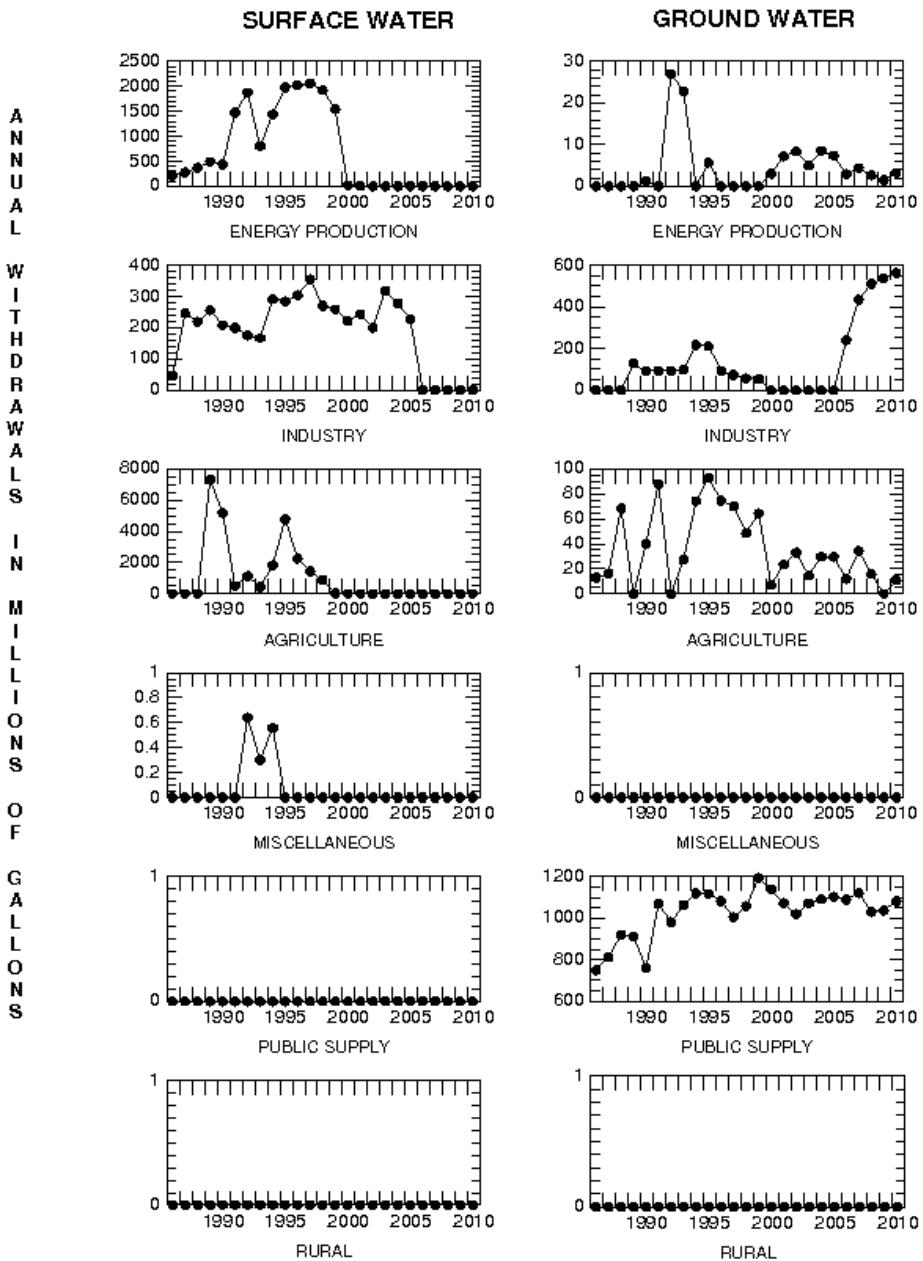
Gibson County
Reported Withdrawals, 1986-2010



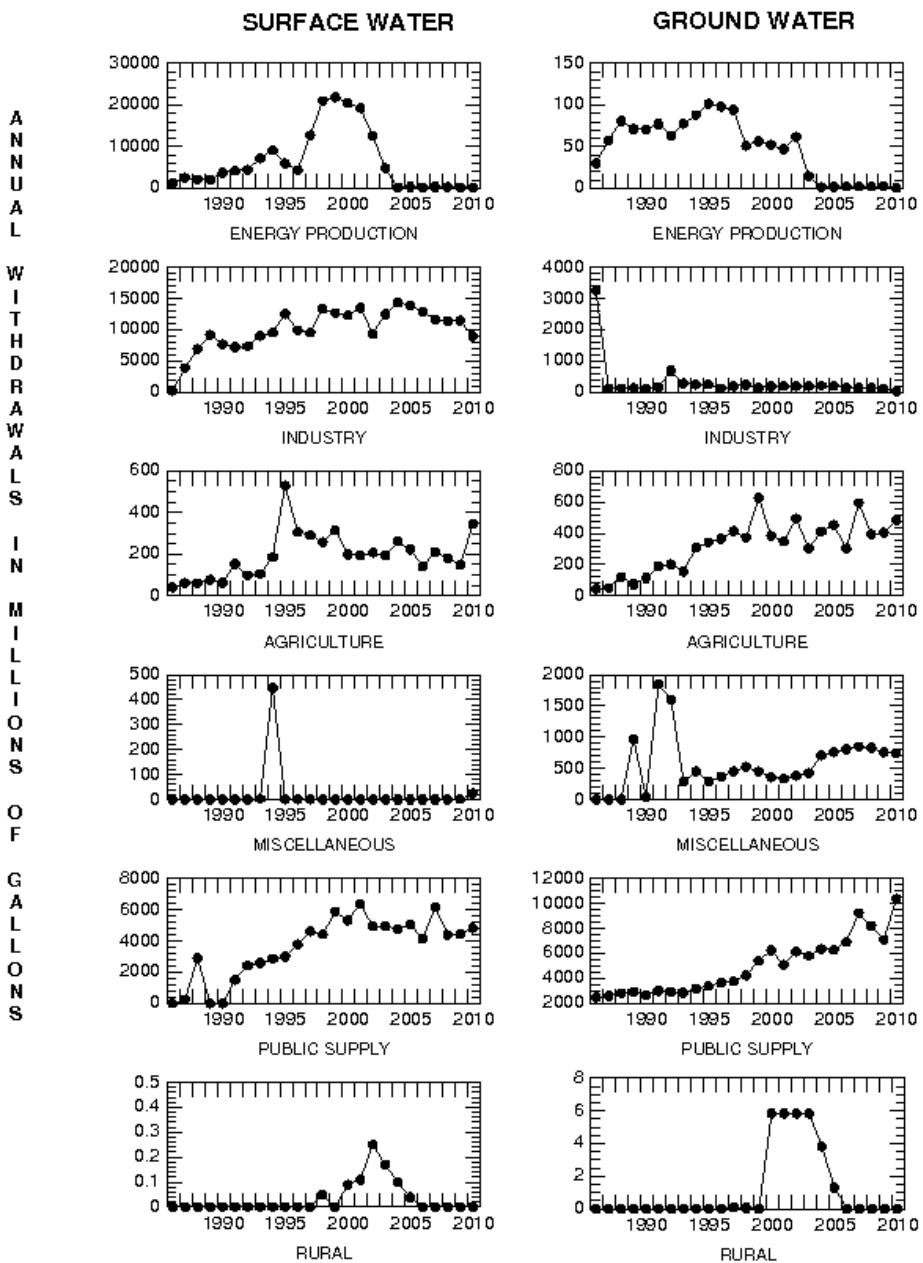
Grant County
Reported Withdrawals, 1986-2010



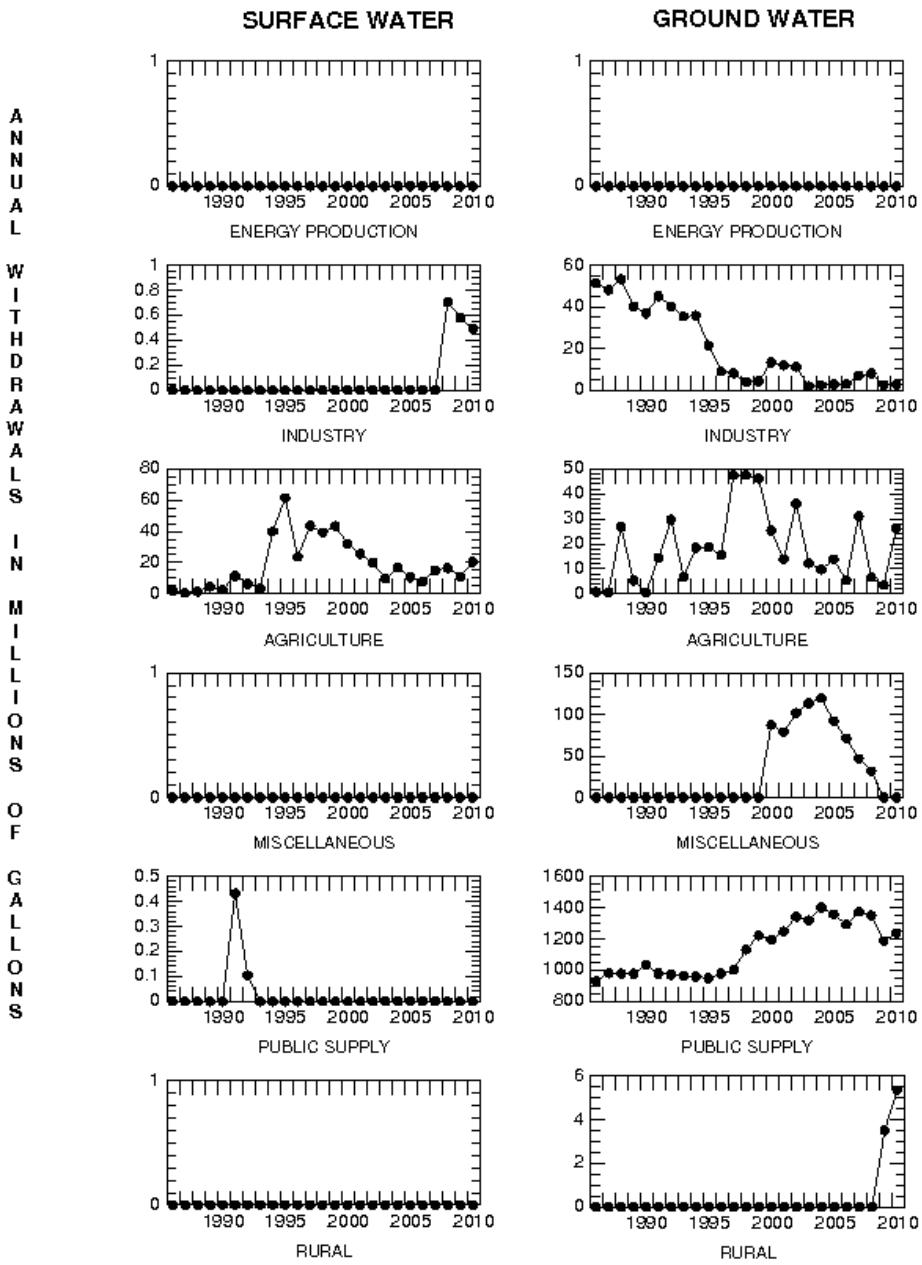
Greene County
Reported Withdrawals, 1986-2010



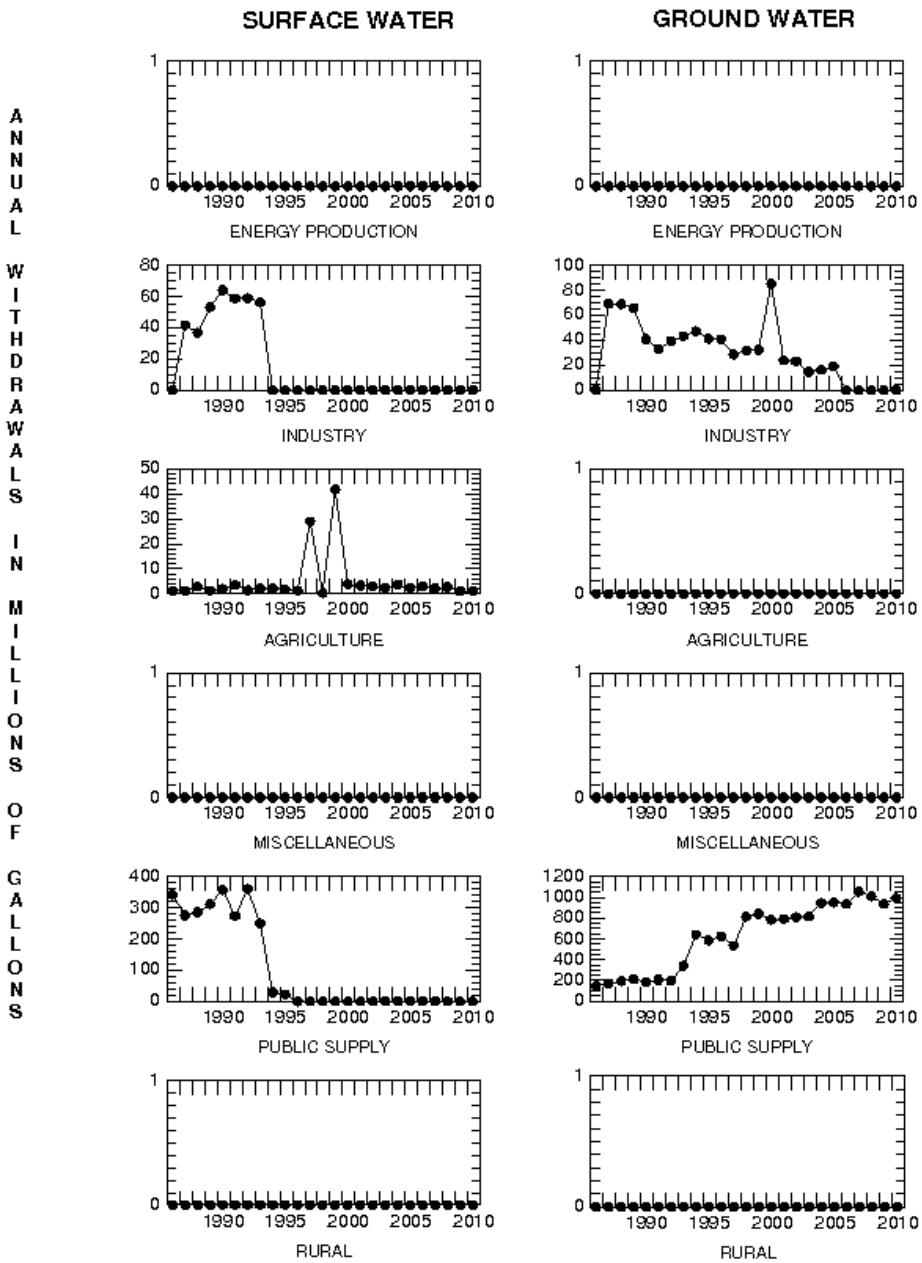
Hamilton County Reported Withdrawals, 1986-2010



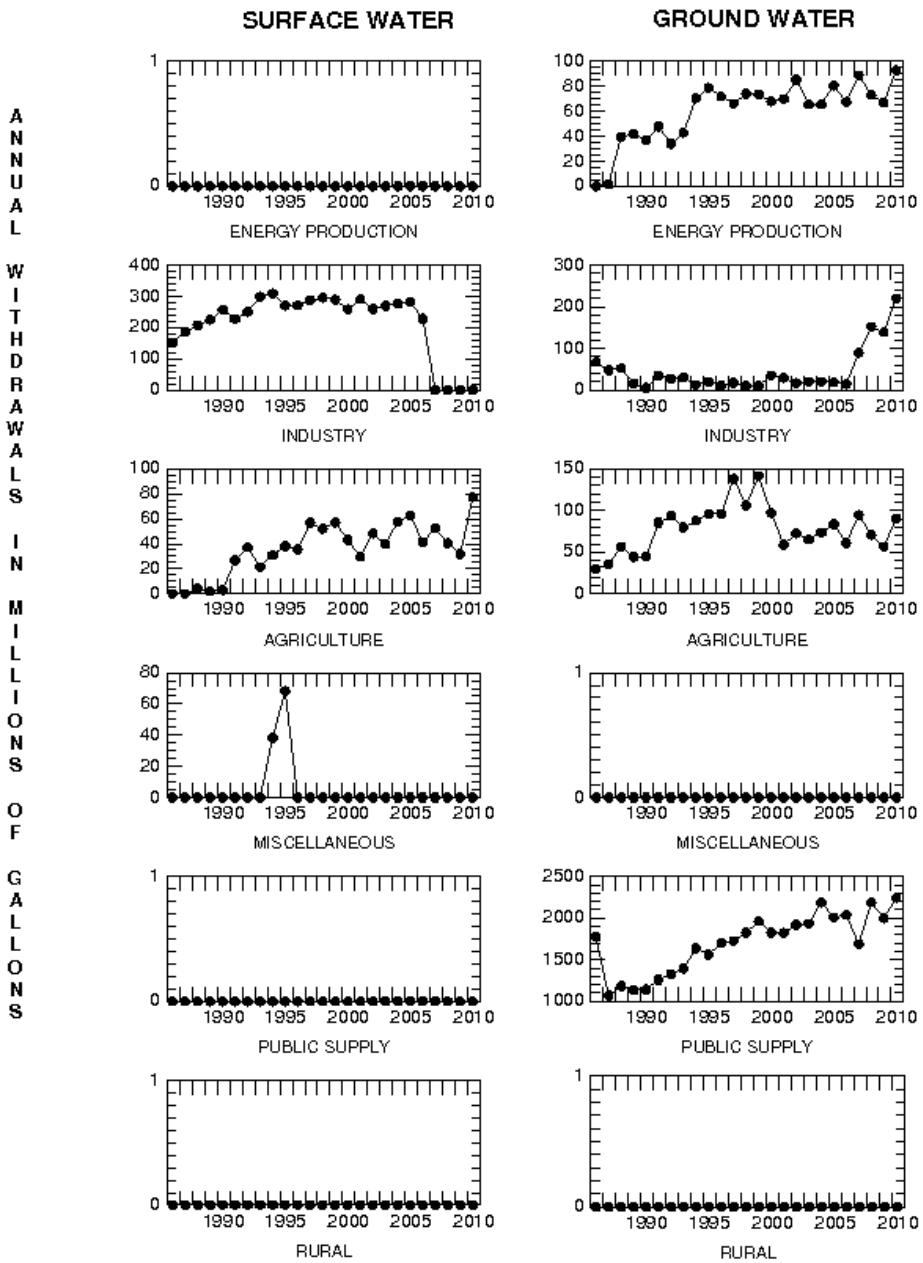
Hancock County Reported Withdrawals, 1986-2010



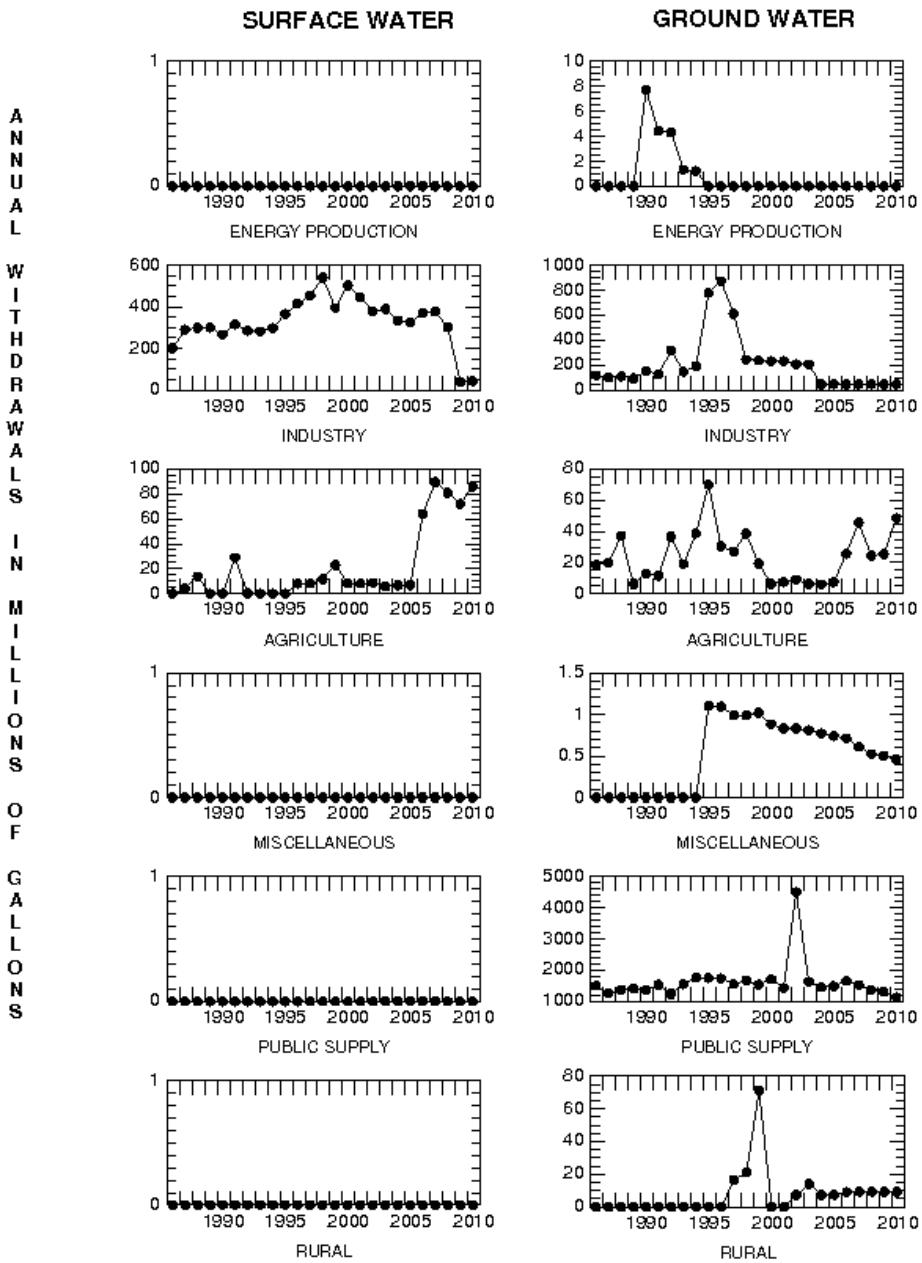
Harrison County Reported Withdrawals, 1986-2010



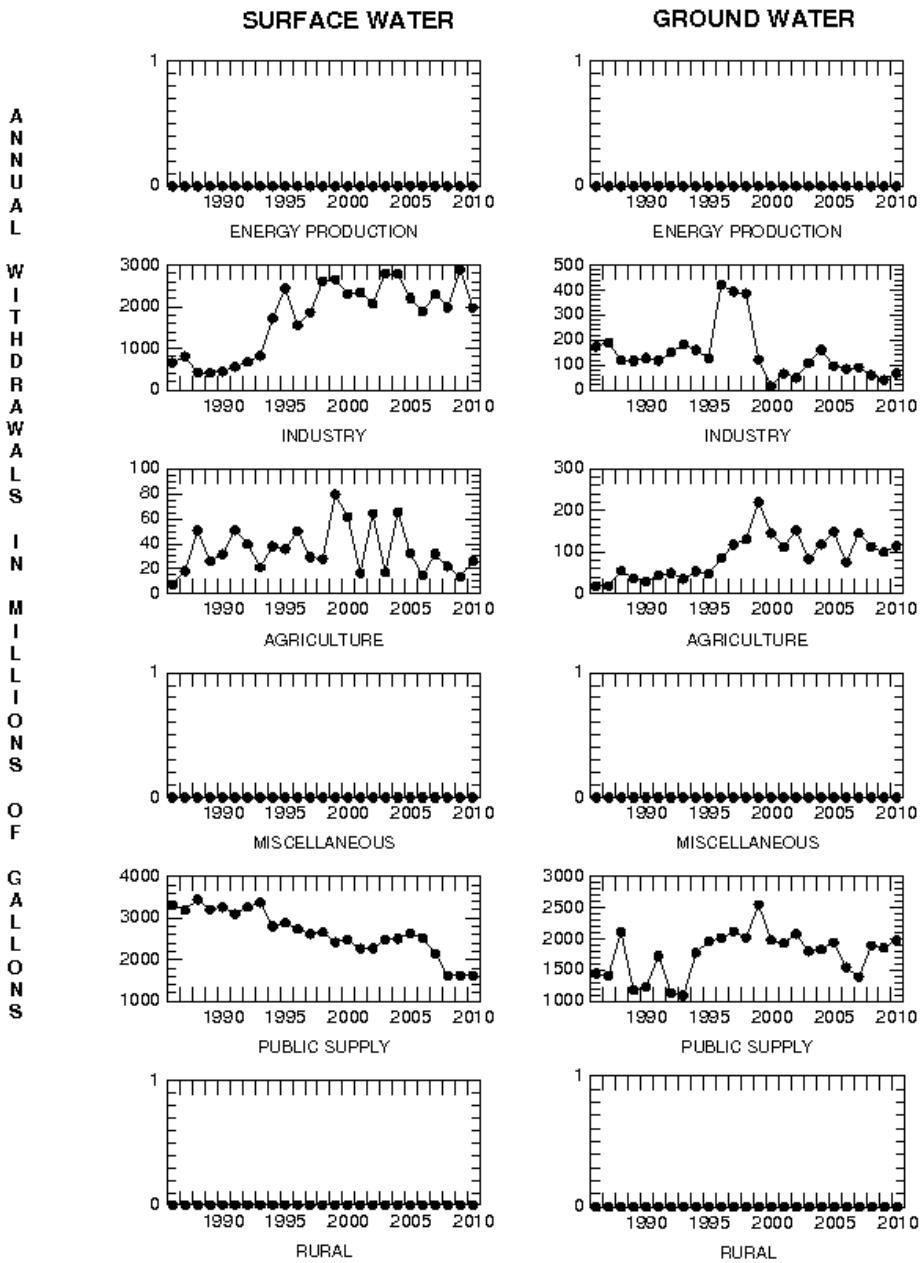
Hendricks County
Reported Withdrawals, 1986-2010



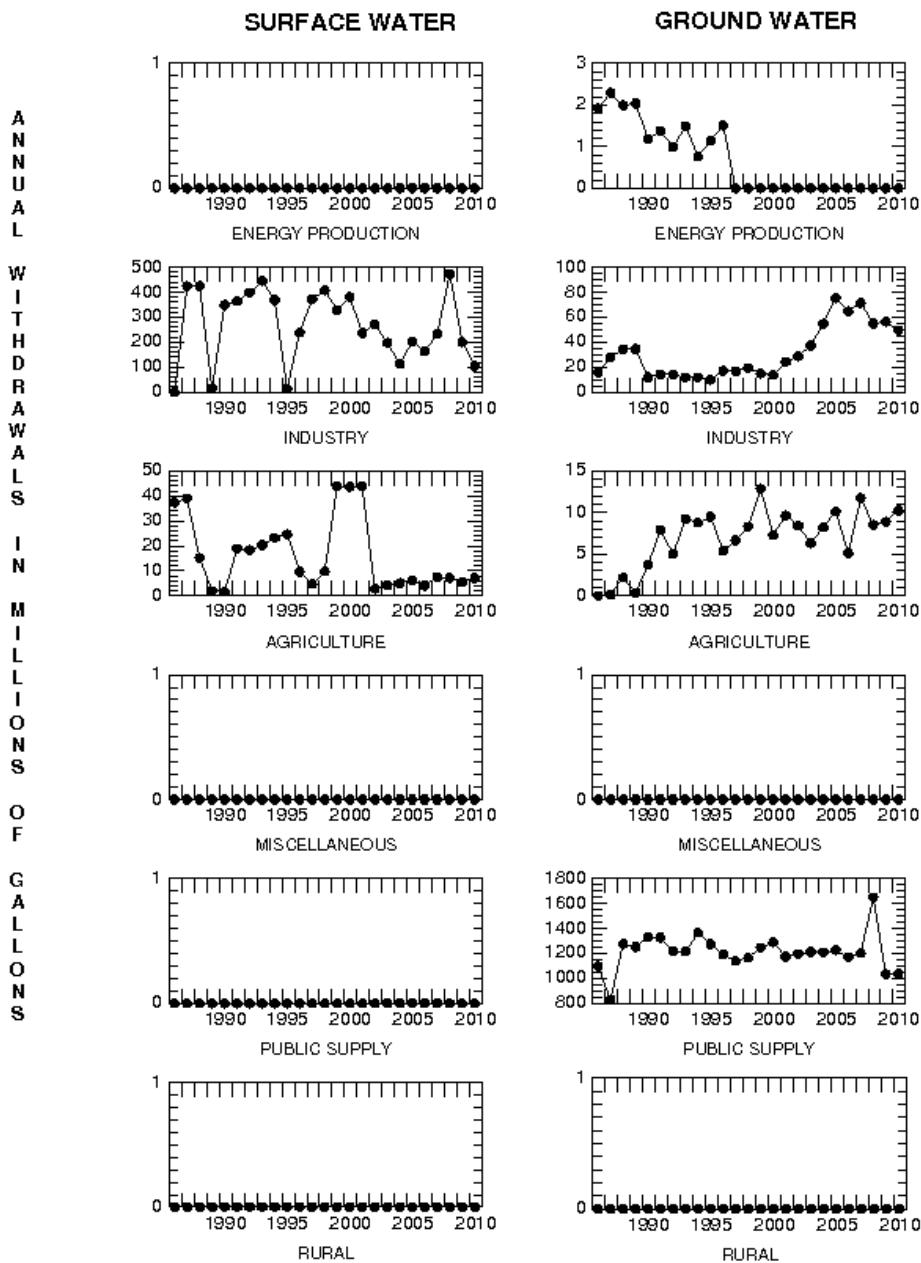
Henry County
Reported Withdrawals, 1986-2010



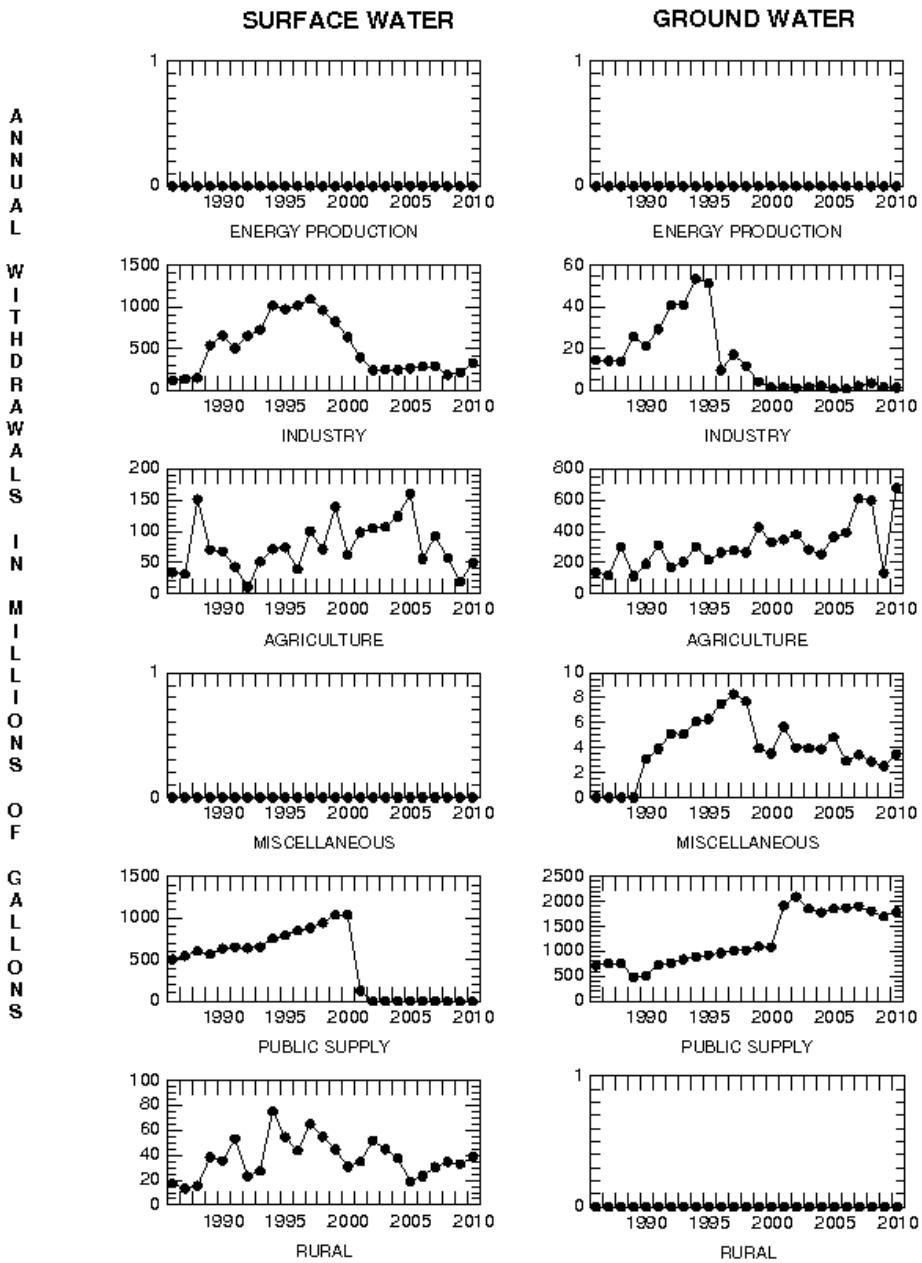
Howard County
Reported Withdrawals, 1986-2010



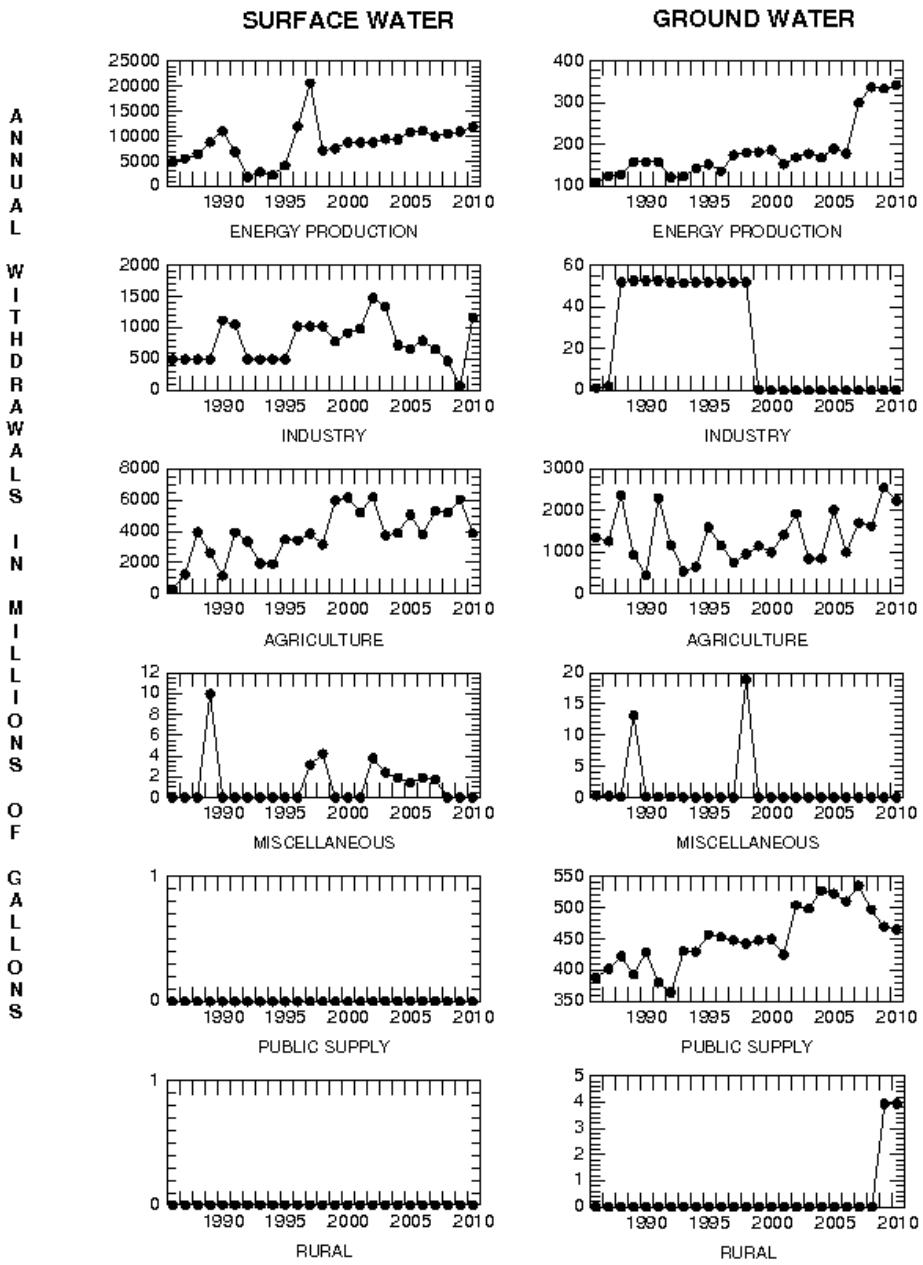
Huntington County
Reported Withdrawals, 1986-2010



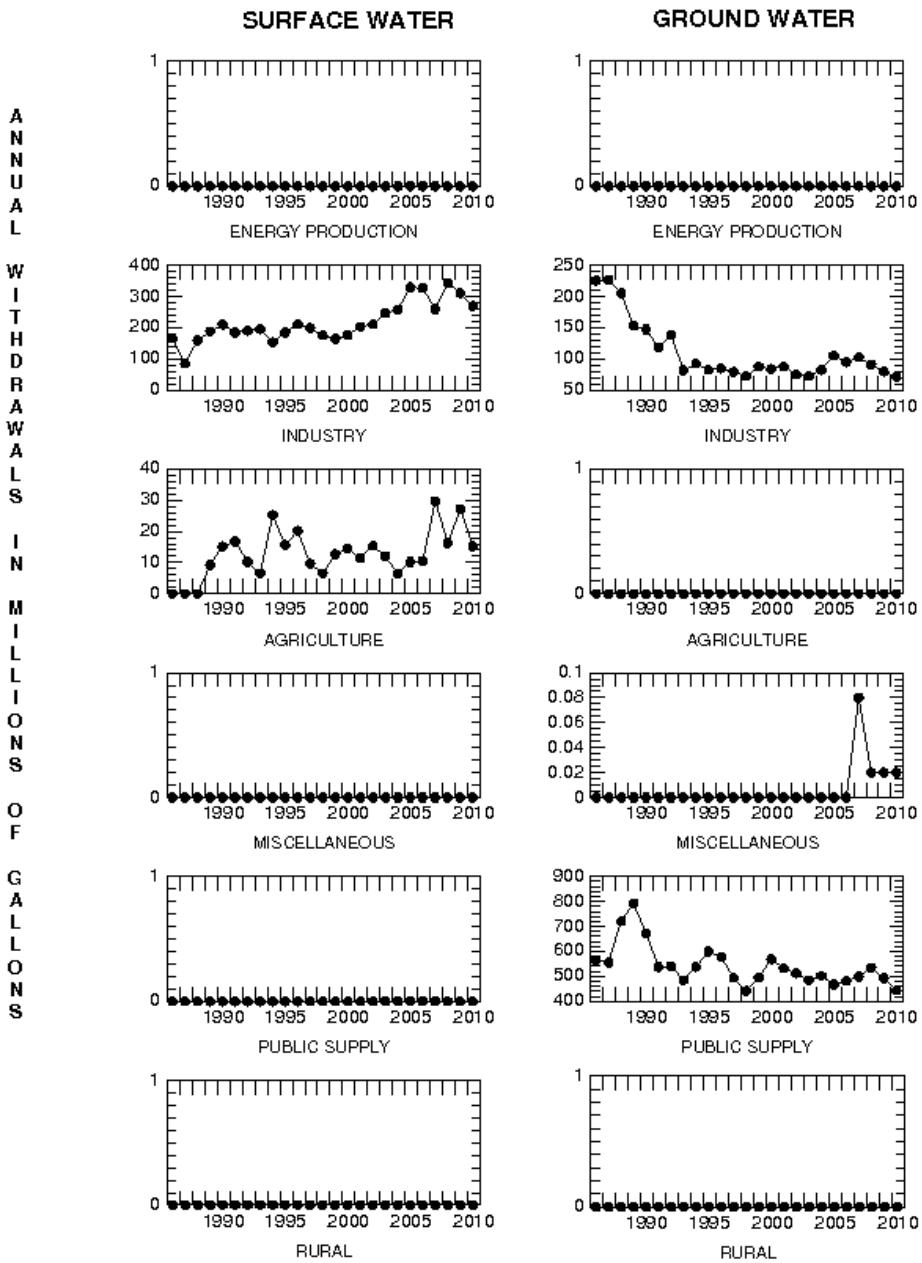
Jackson County
Reported Withdrawals, 1986-2010



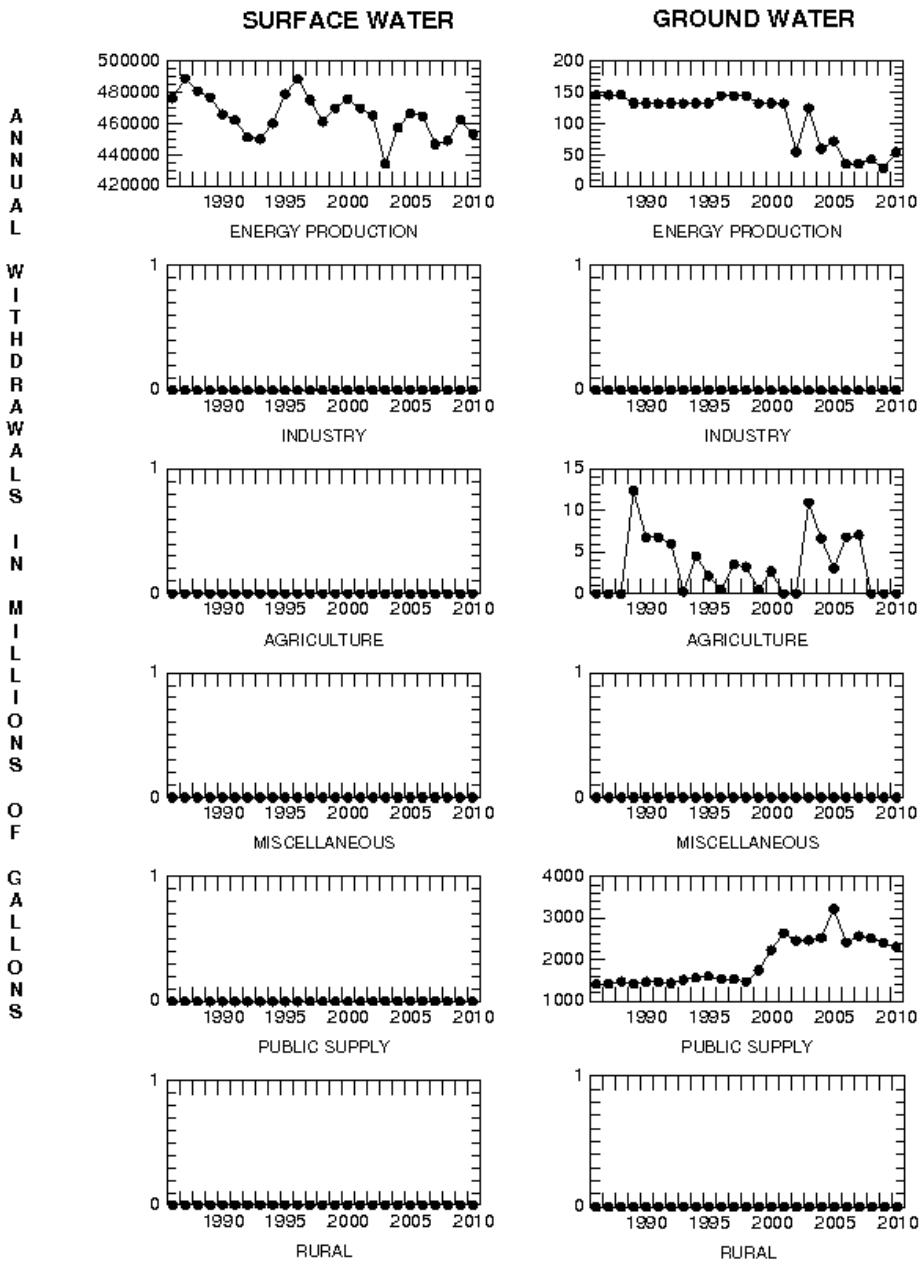
Jasper County
Reported Withdrawals, 1986-2010



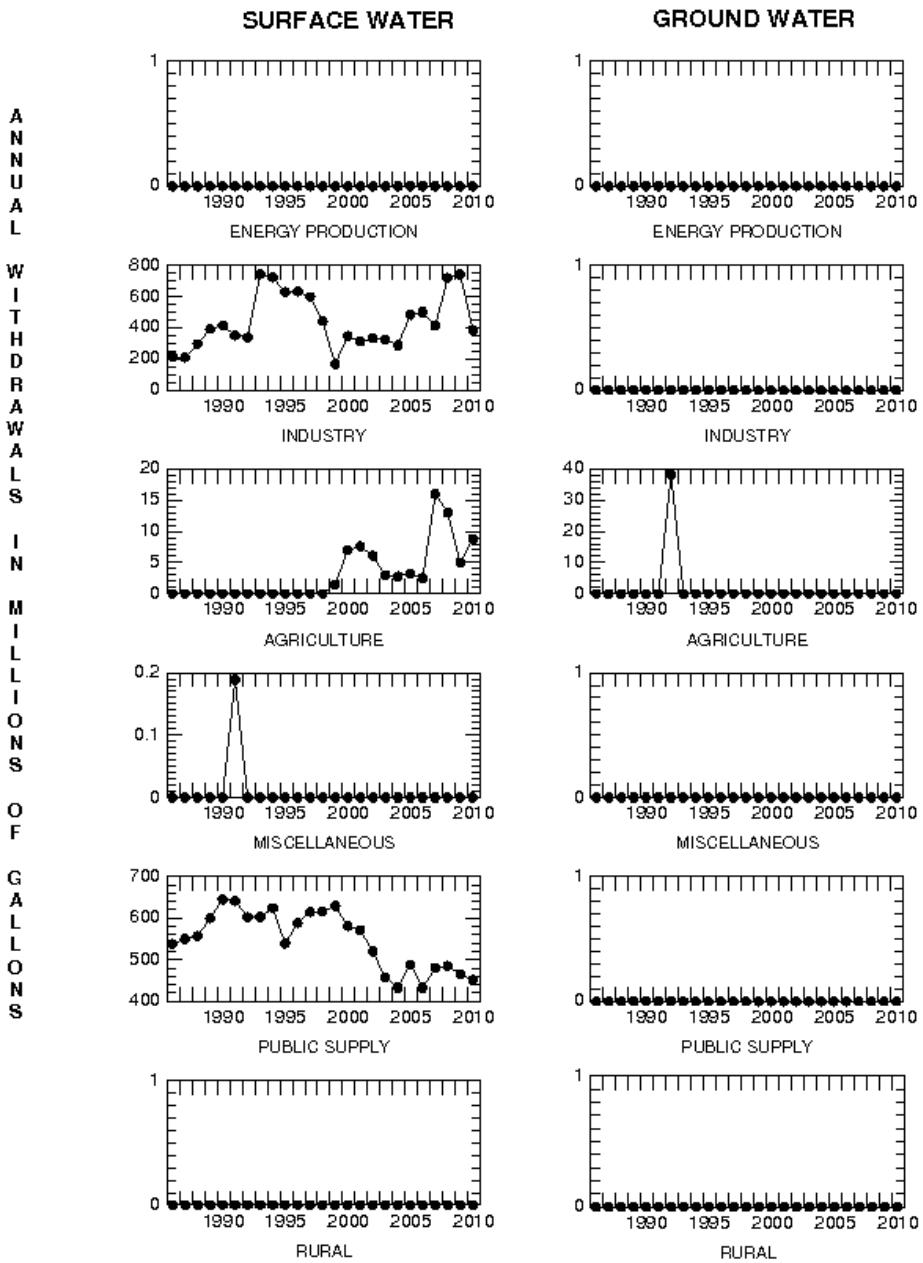
Jay County
Reported Withdrawals, 1986-2010



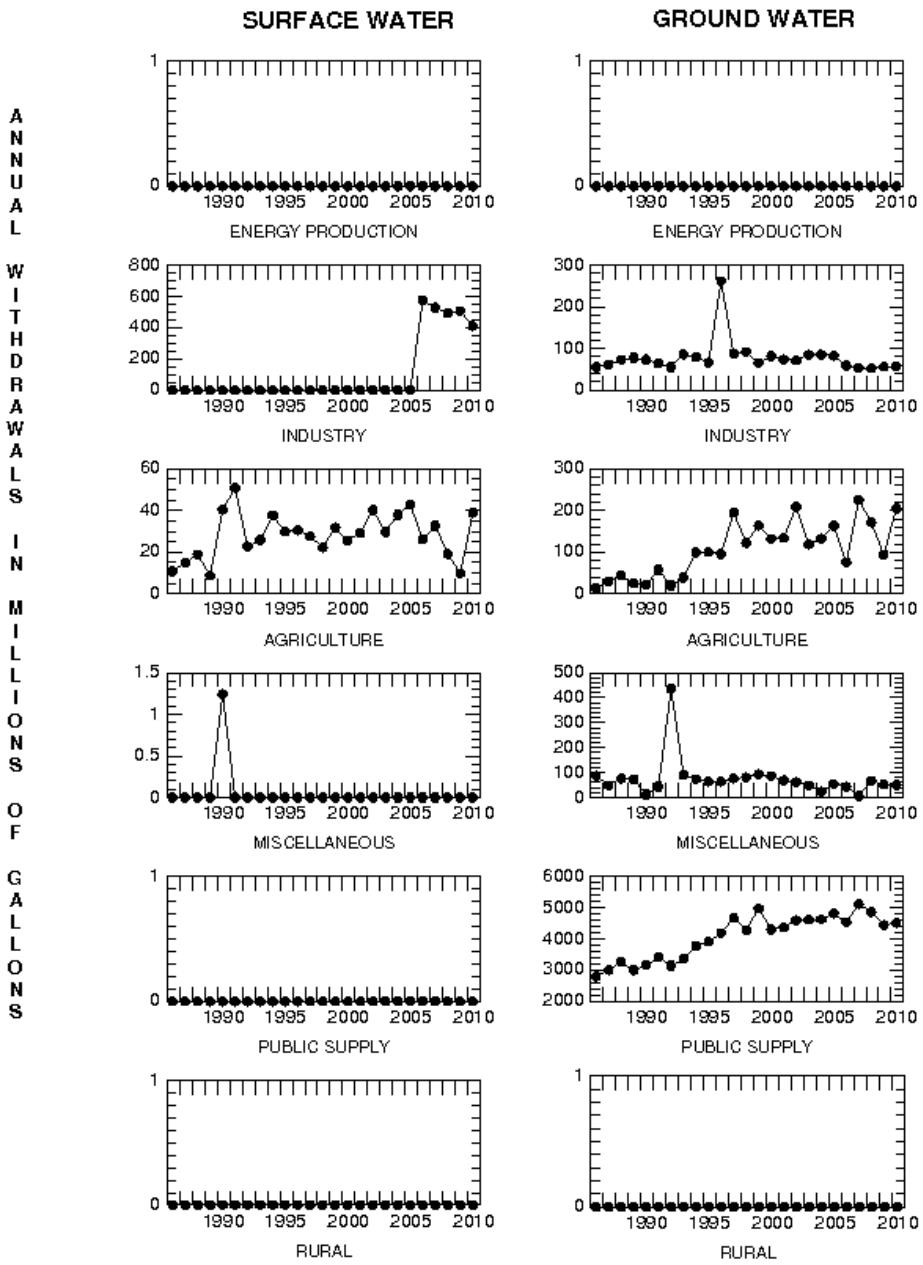
Jefferson County
Reported Withdrawals, 1986-2010



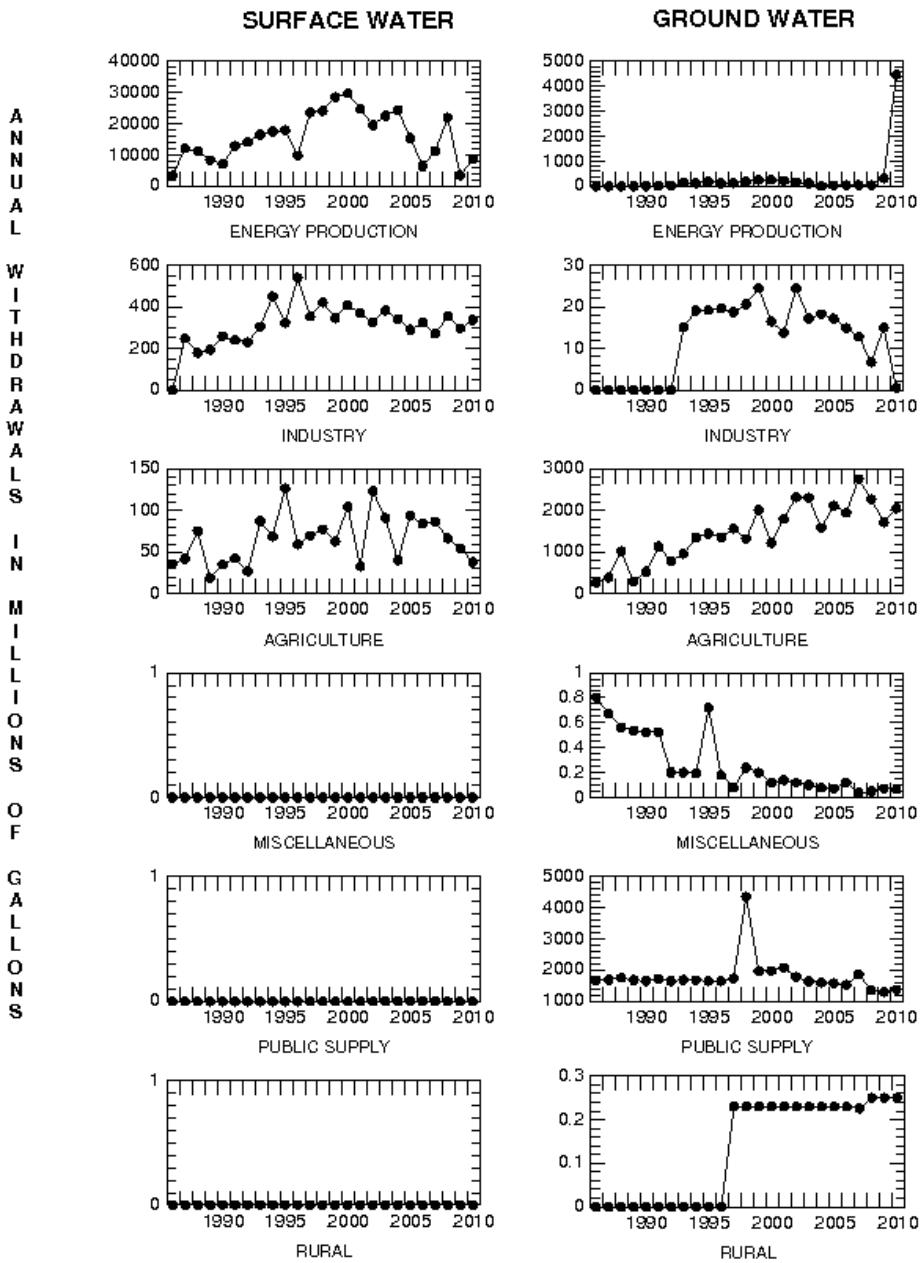
Jennings County
Reported Withdrawals, 1986-2010



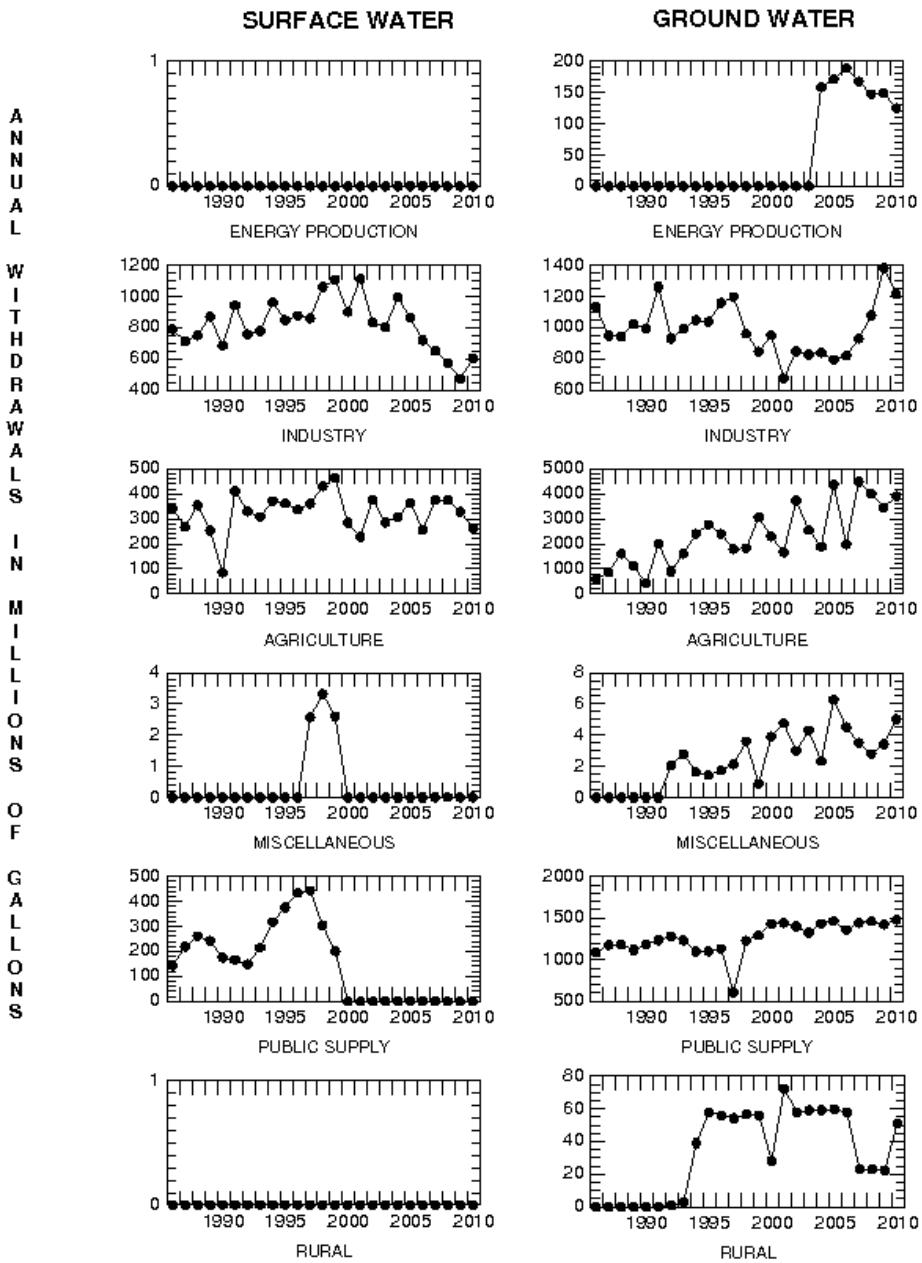
Johnson County
Reported Withdrawals, 1986-2010



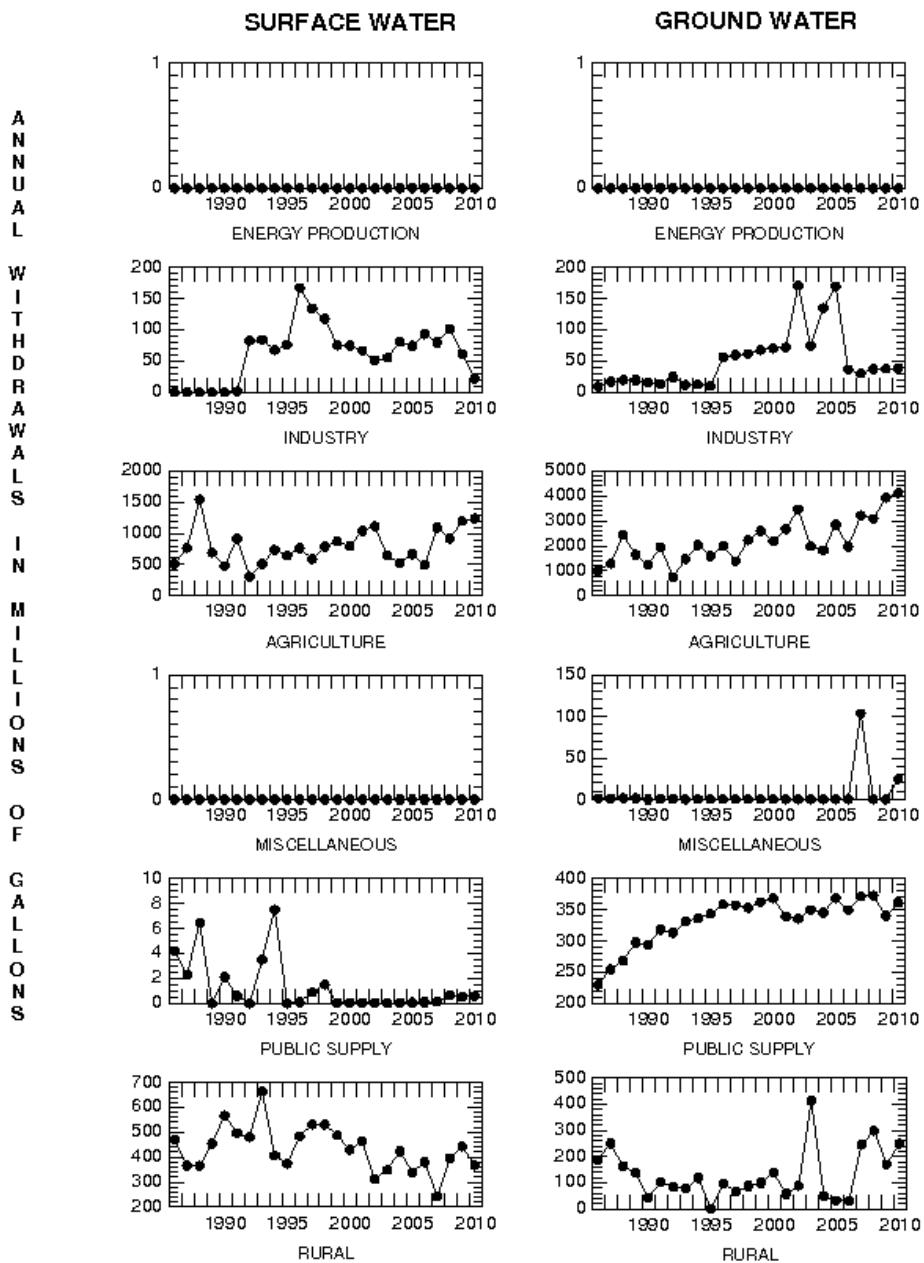
Knox County
Reported Withdrawals, 1986-2010



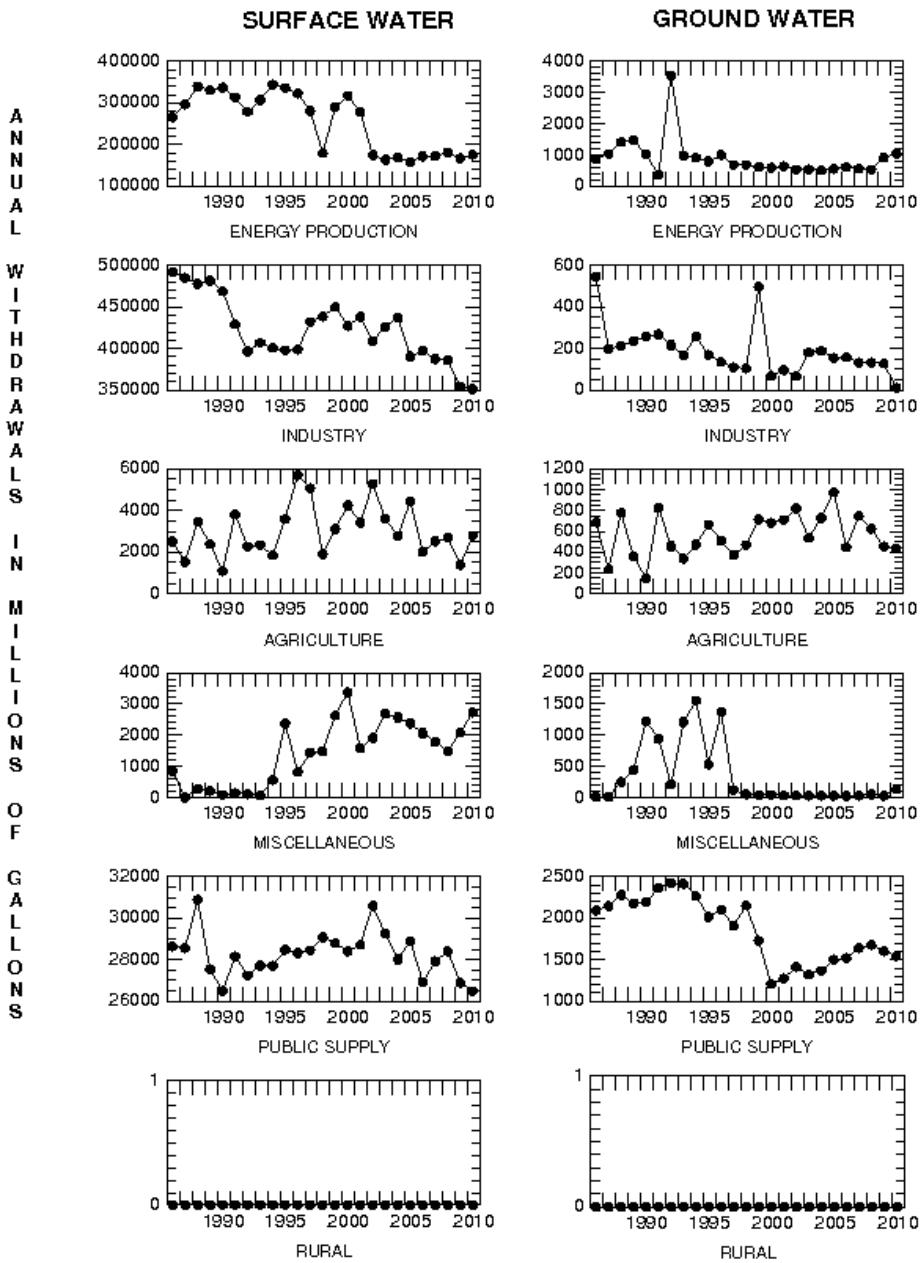
Kosciusko County
Reported Withdrawals, 1986-2010



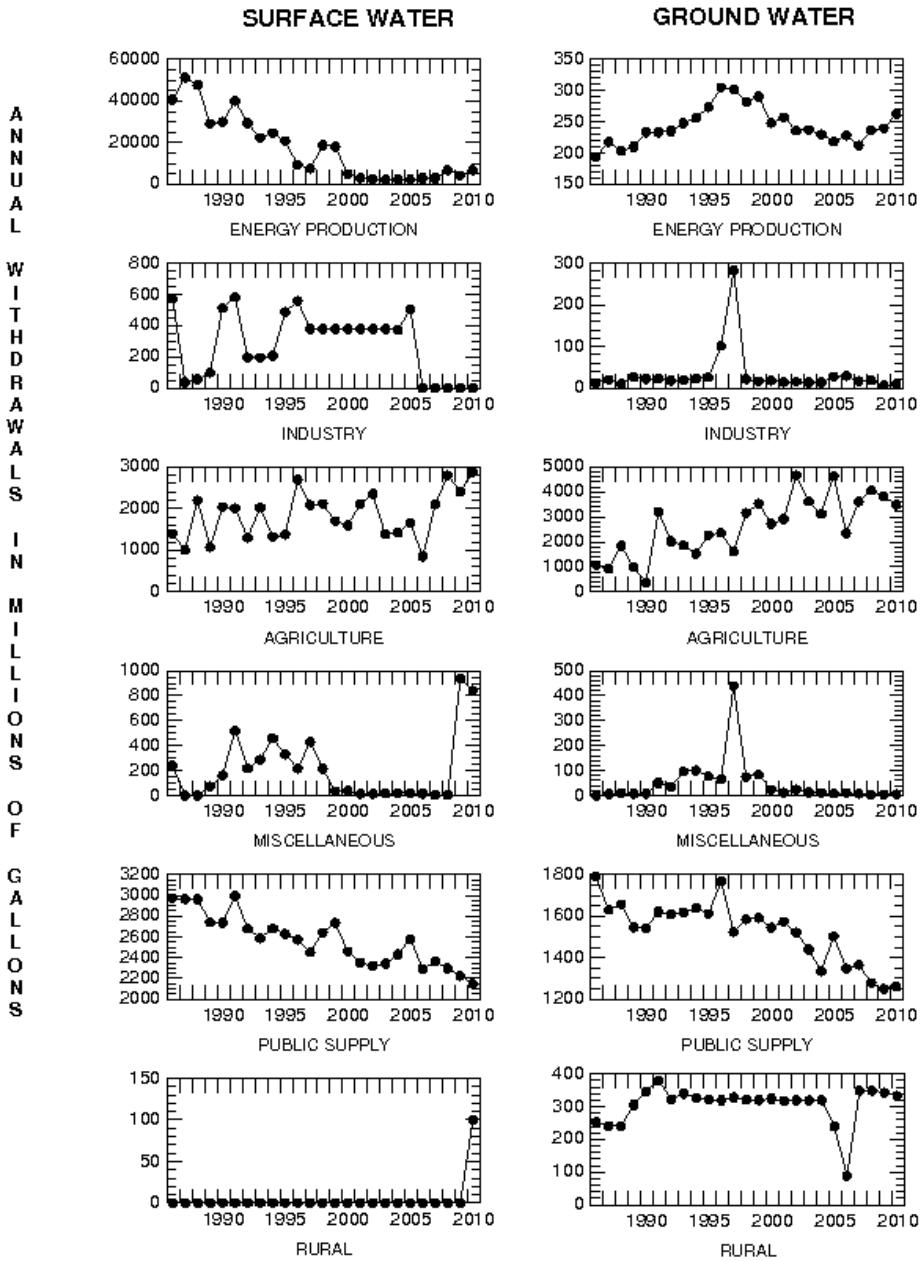
Lagrange County
Reported Withdrawals, 1986-2010



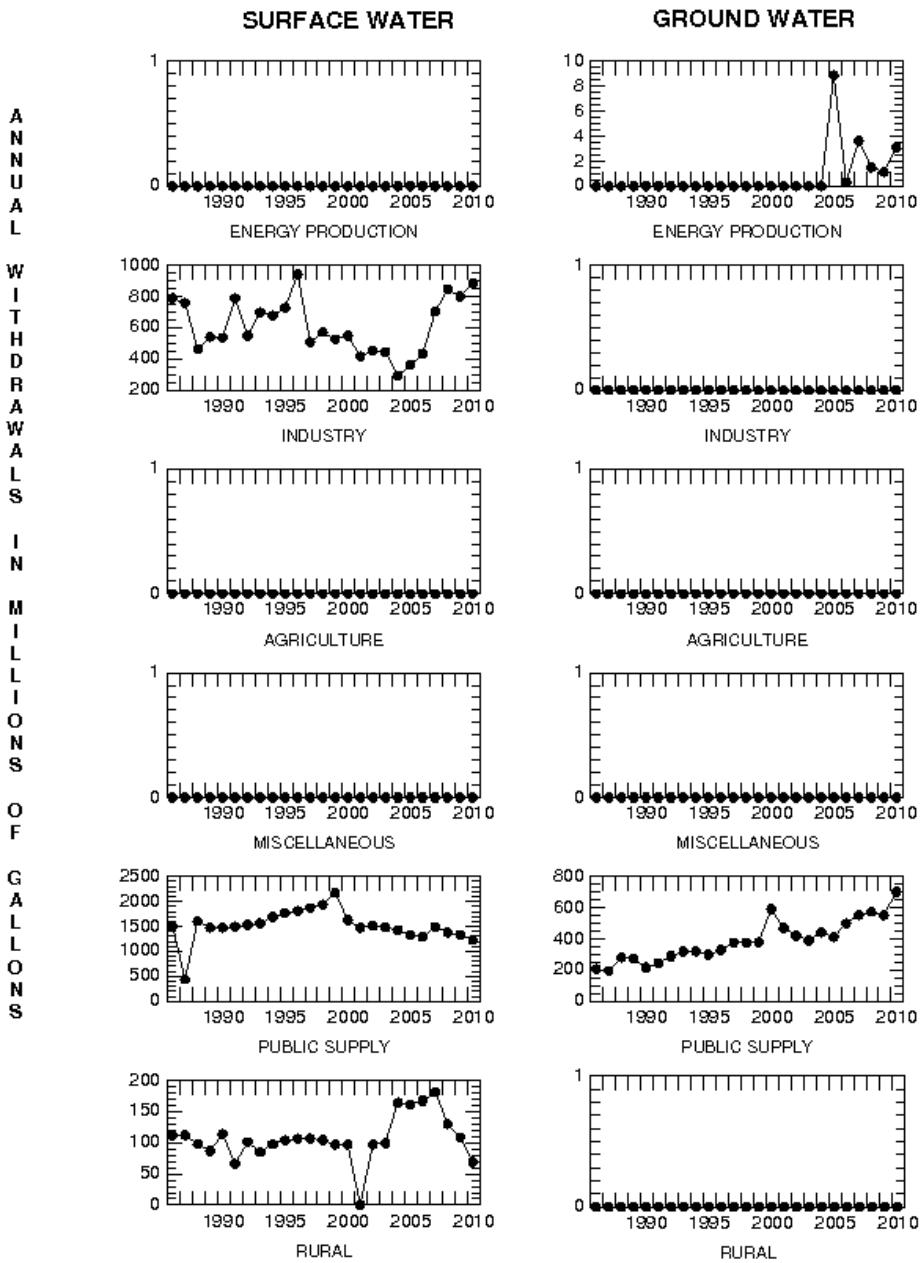
Lake County
Reported Withdrawals, 1986-2010



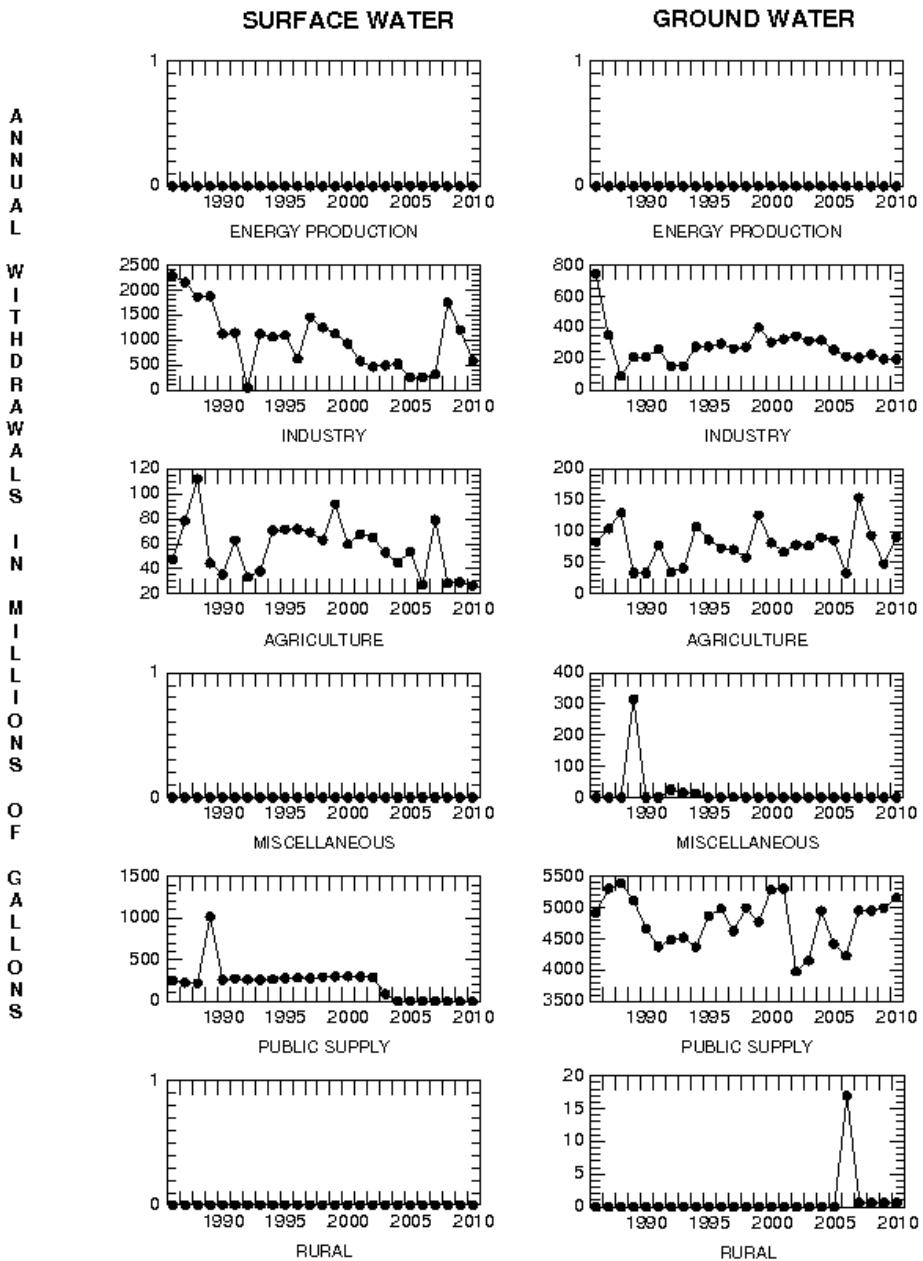
Laporte County
Reported Withdrawals, 1986-2010



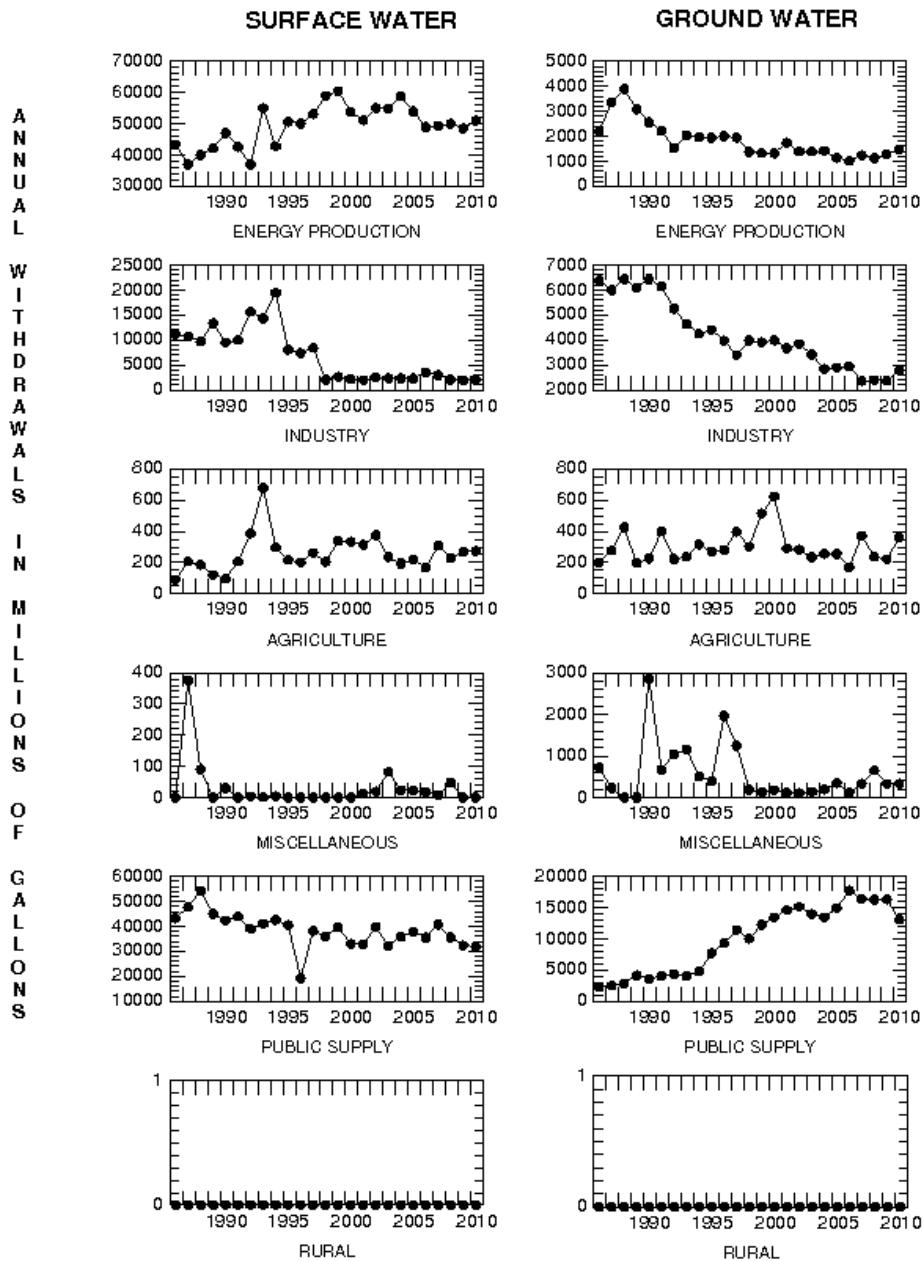
Lawrence County
Reported Withdrawals, 1986-2010



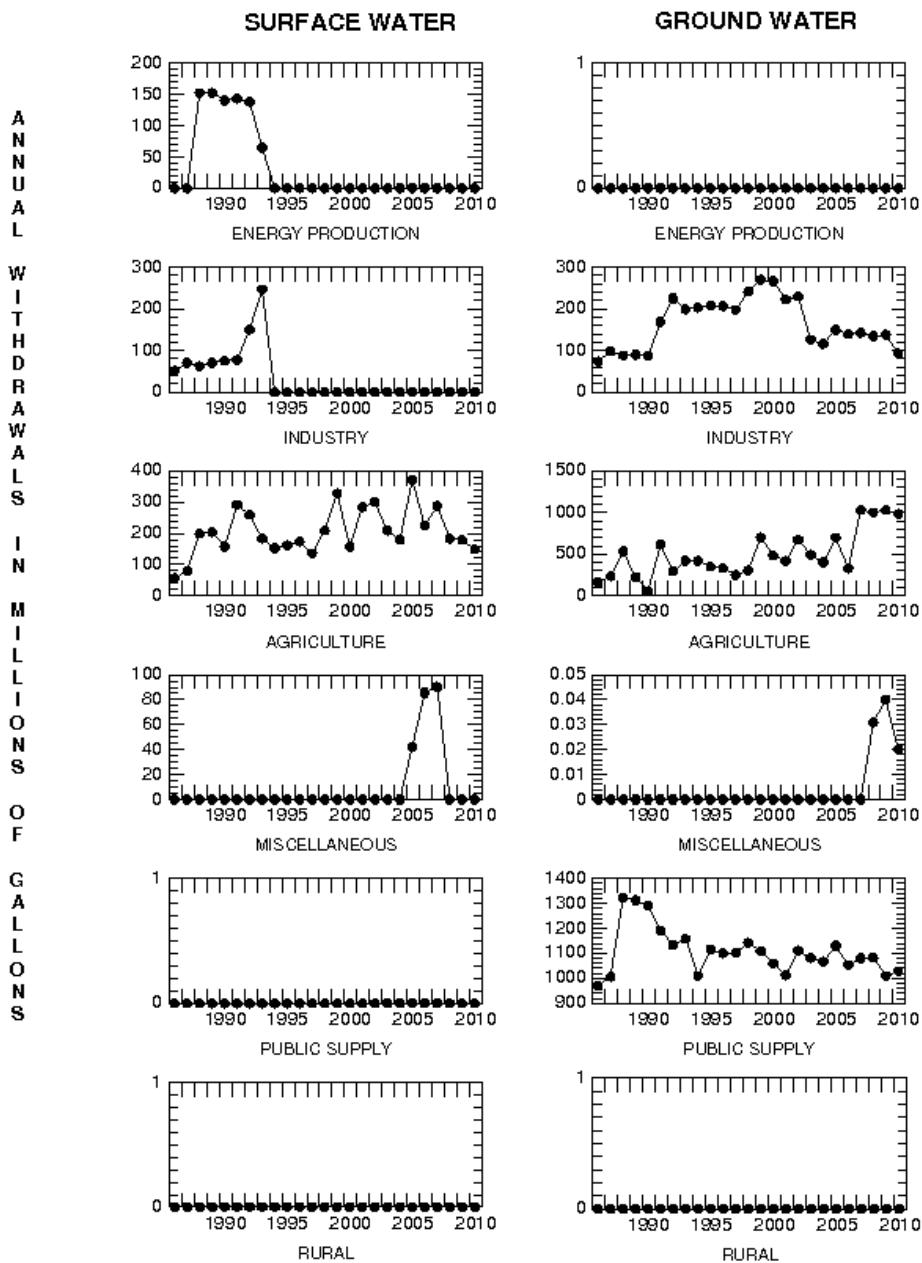
Madison County
Reported Withdrawals, 1986-2010



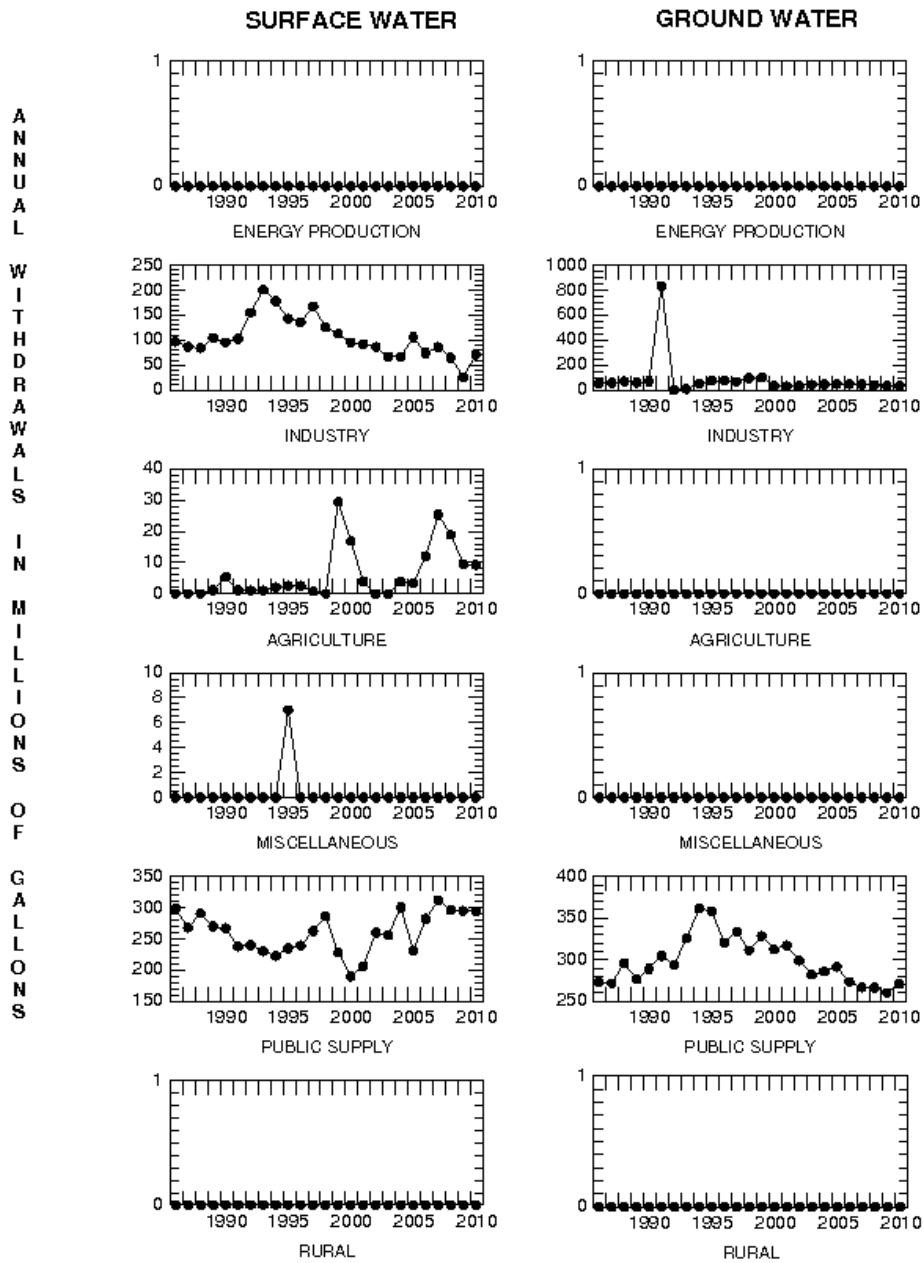
Marion County
Reported Withdrawals, 1986-2010



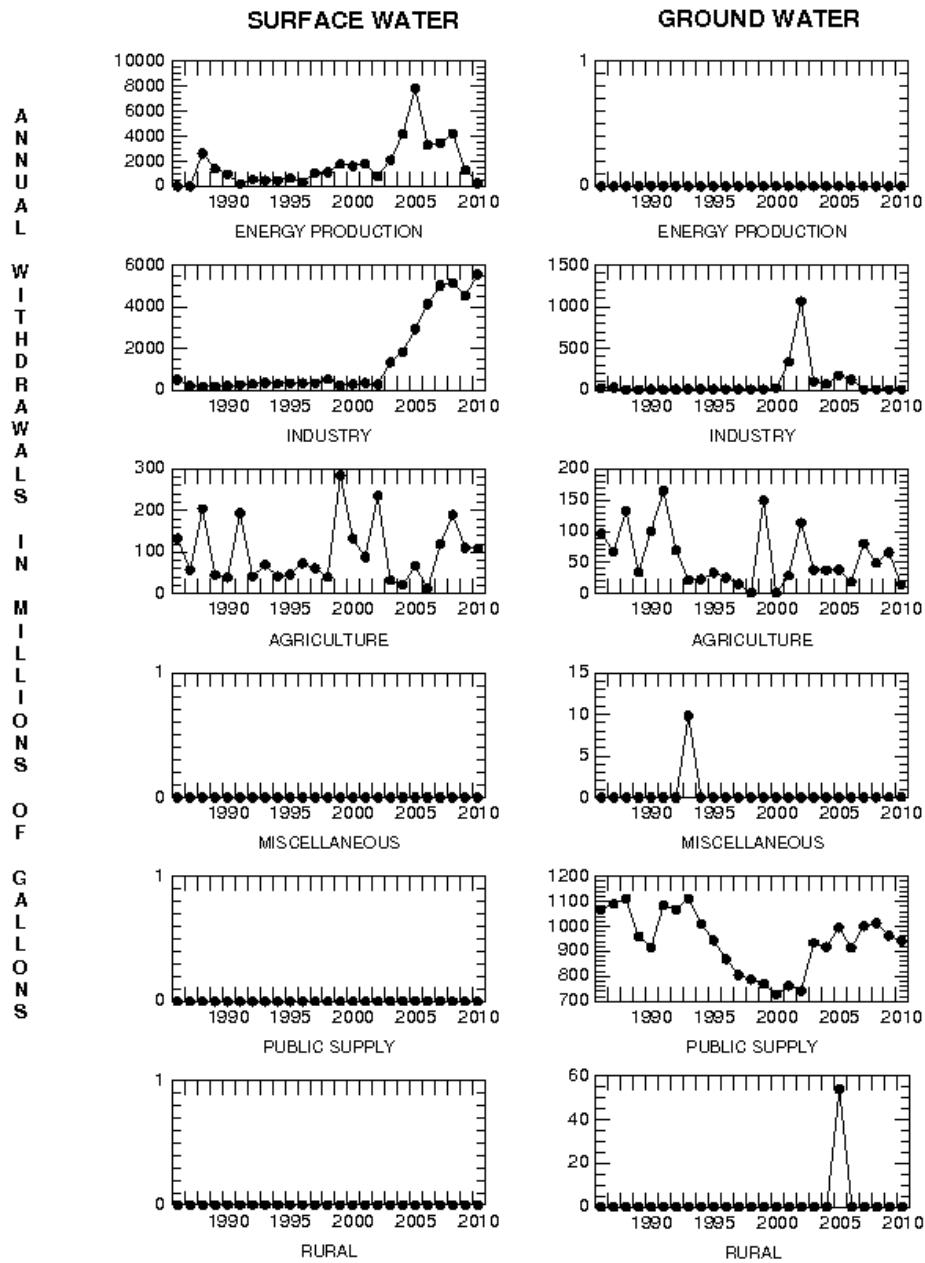
Marshall County
Reported Withdrawals, 1986-2010



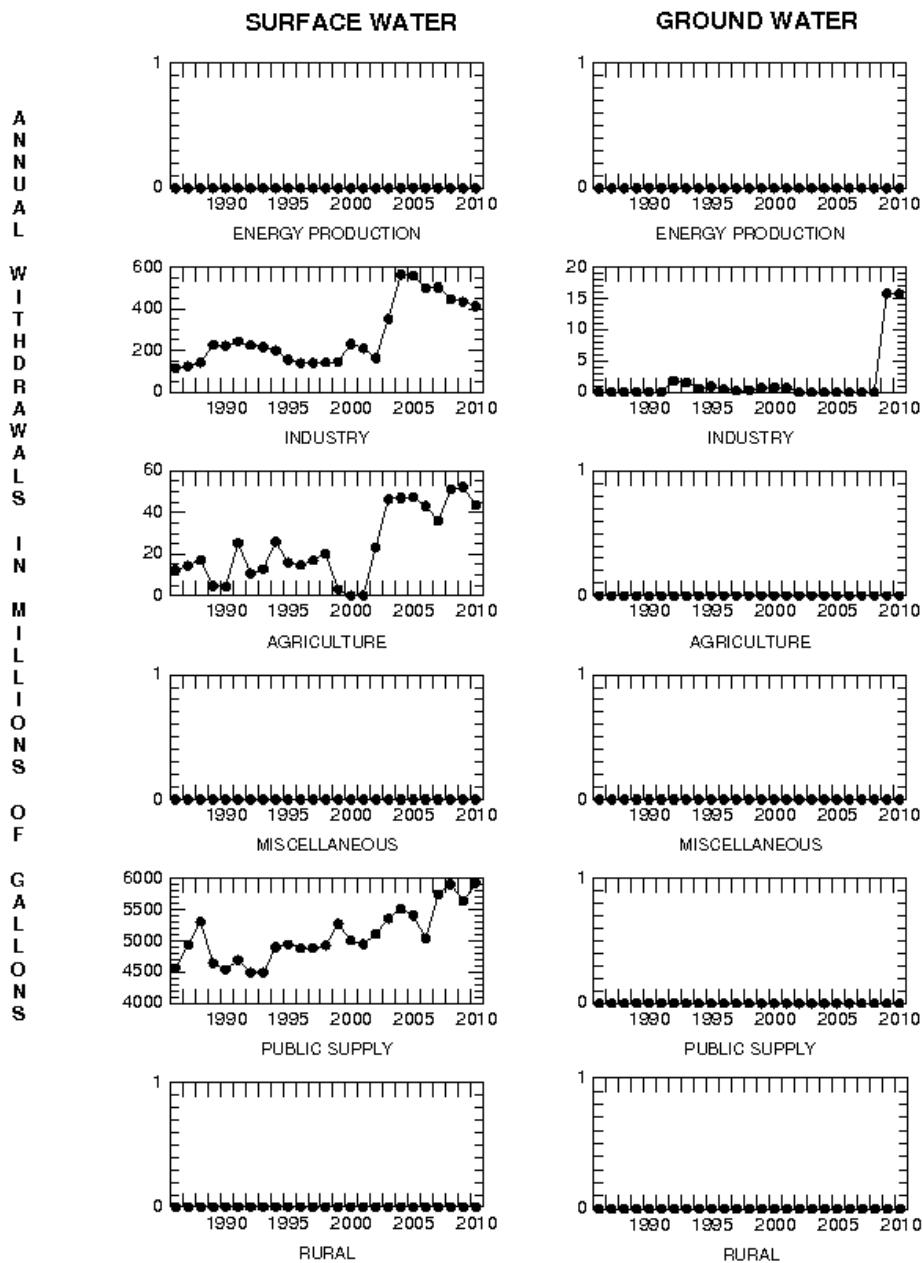
Martin County
Reported Withdrawals, 1986-2010



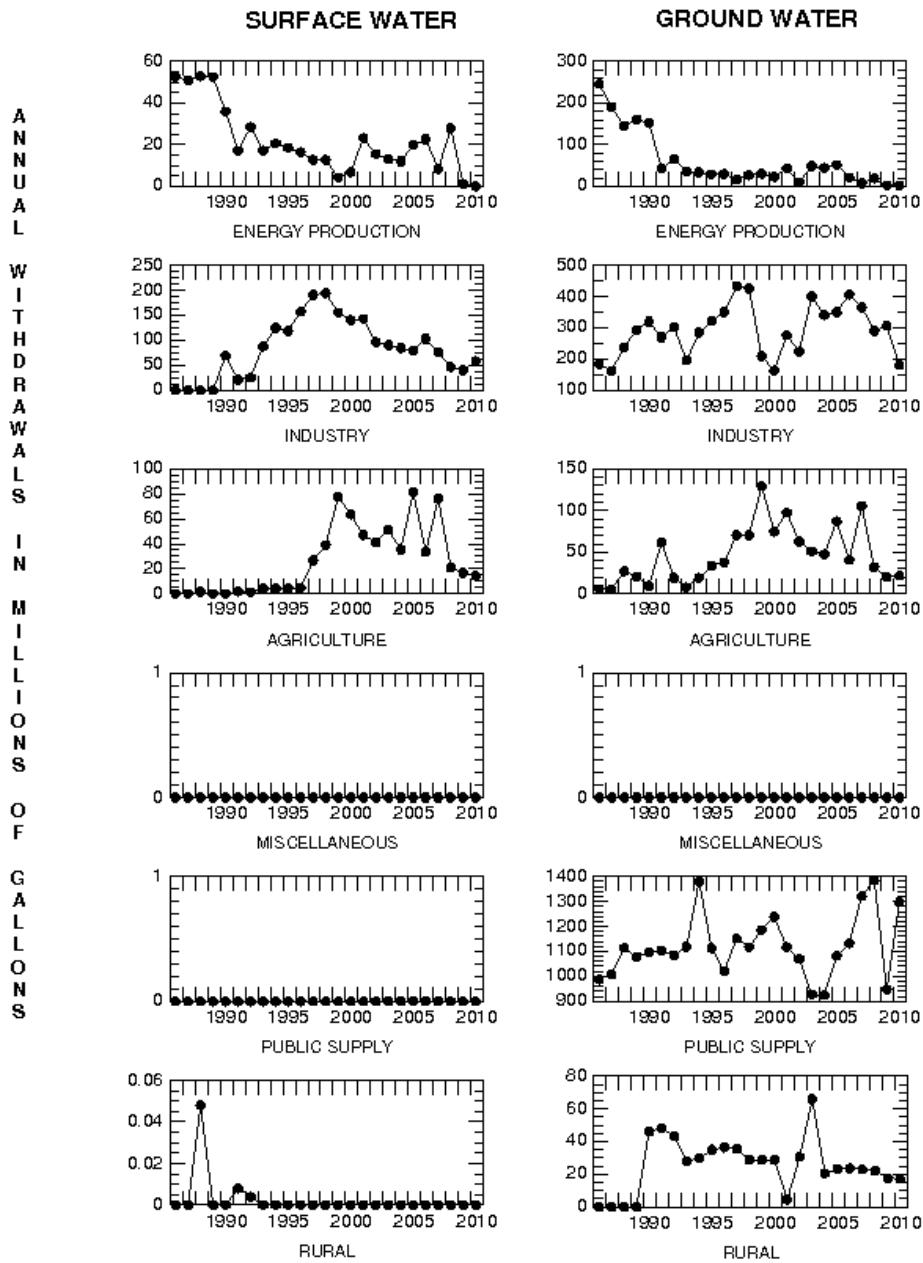
Miami County
Reported Withdrawals, 1986-2010



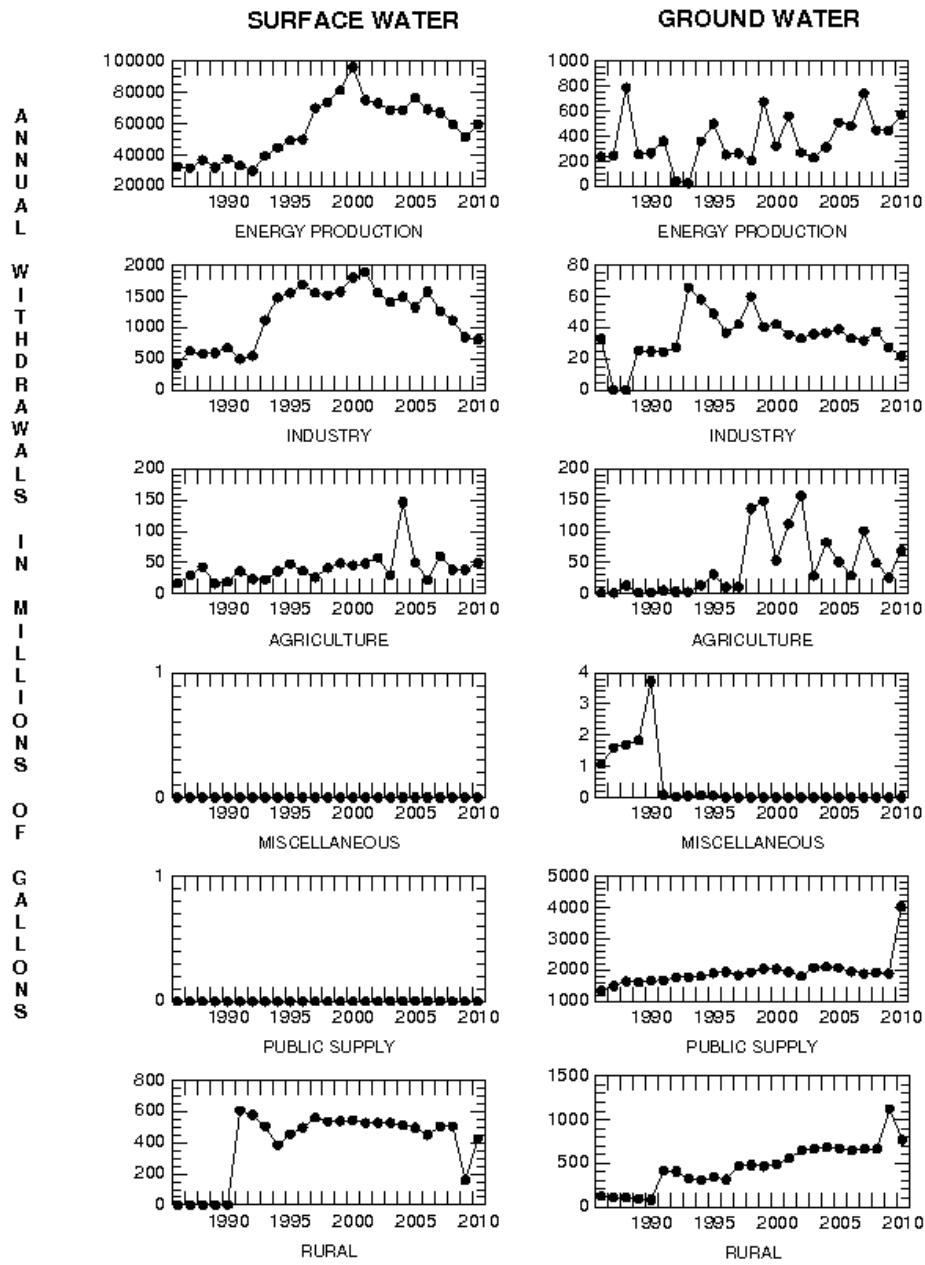
Monroe County
Reported Withdrawals, 1986-2010



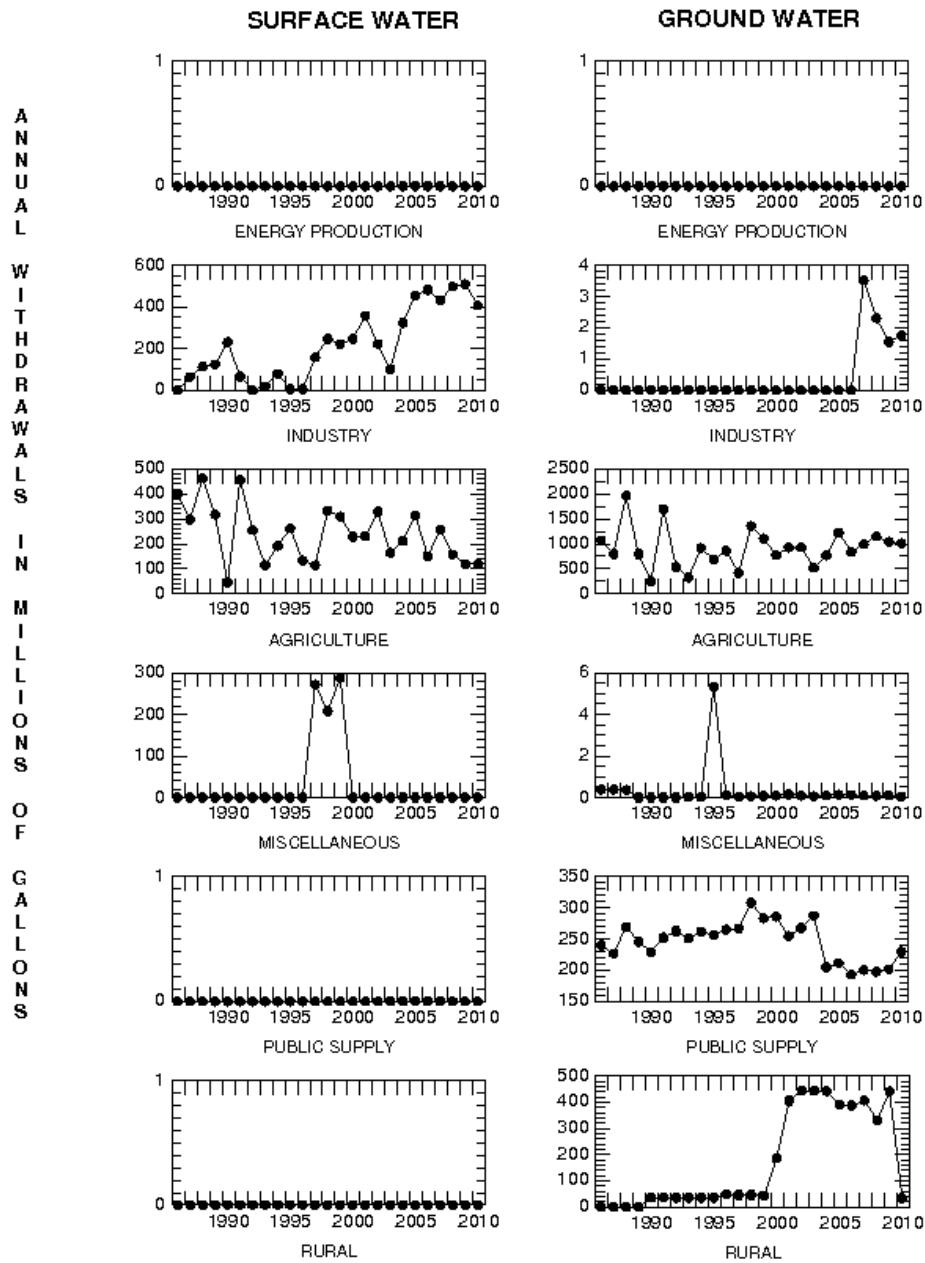
Montgomery County
Reported Withdrawals, 1986-2010



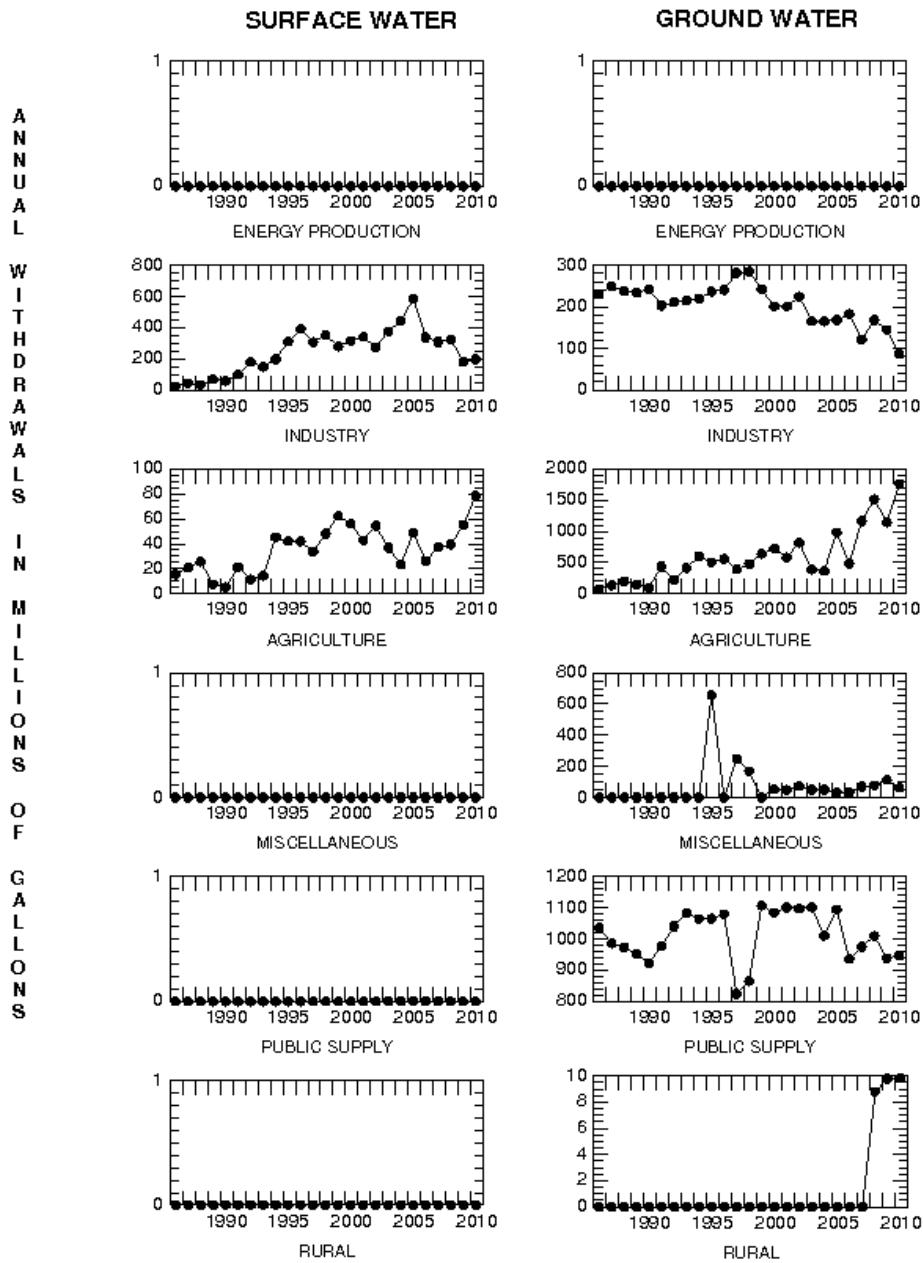
Morgan County
Reported Withdrawals, 1986-2010



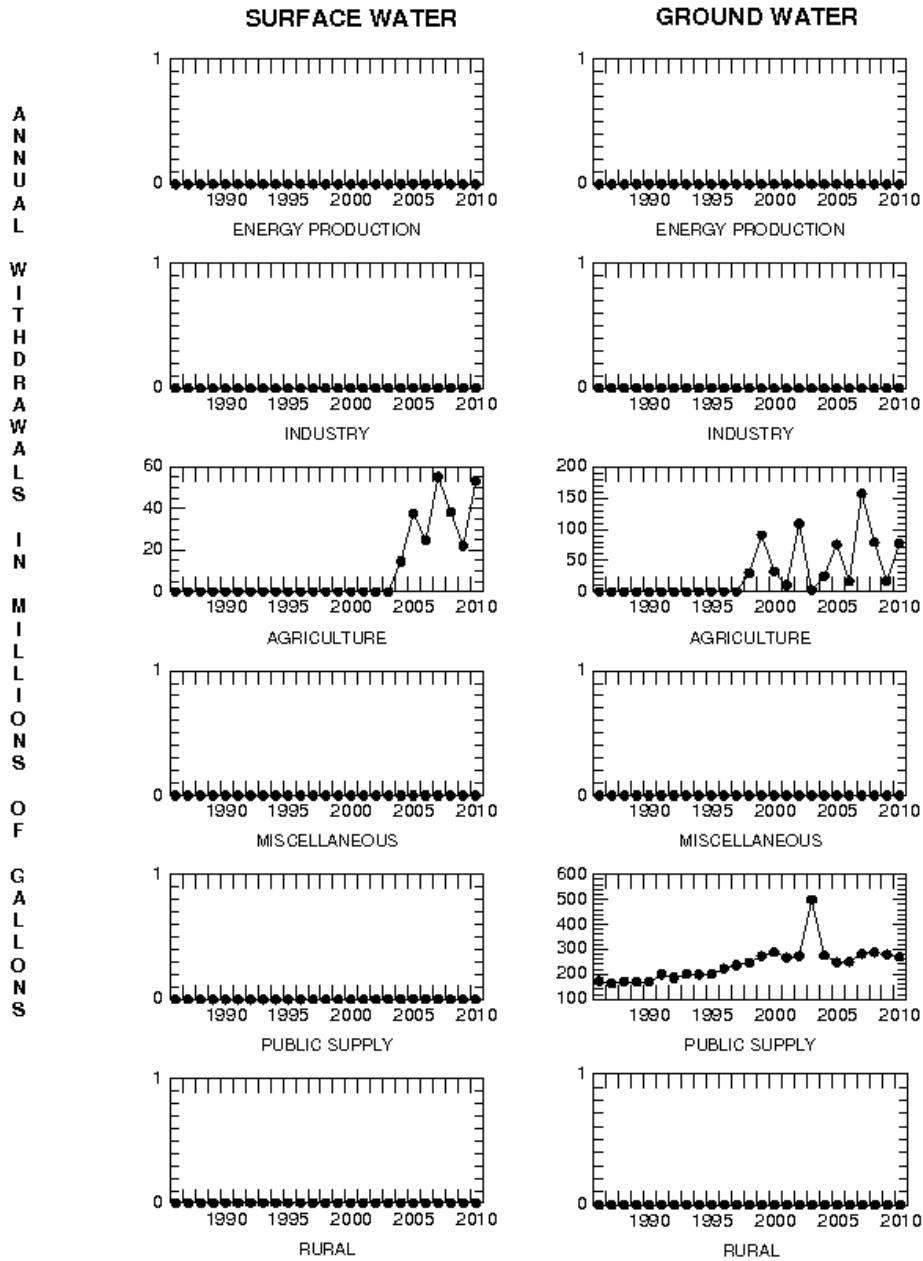
Newton County
Reported Withdrawals, 1986-2010



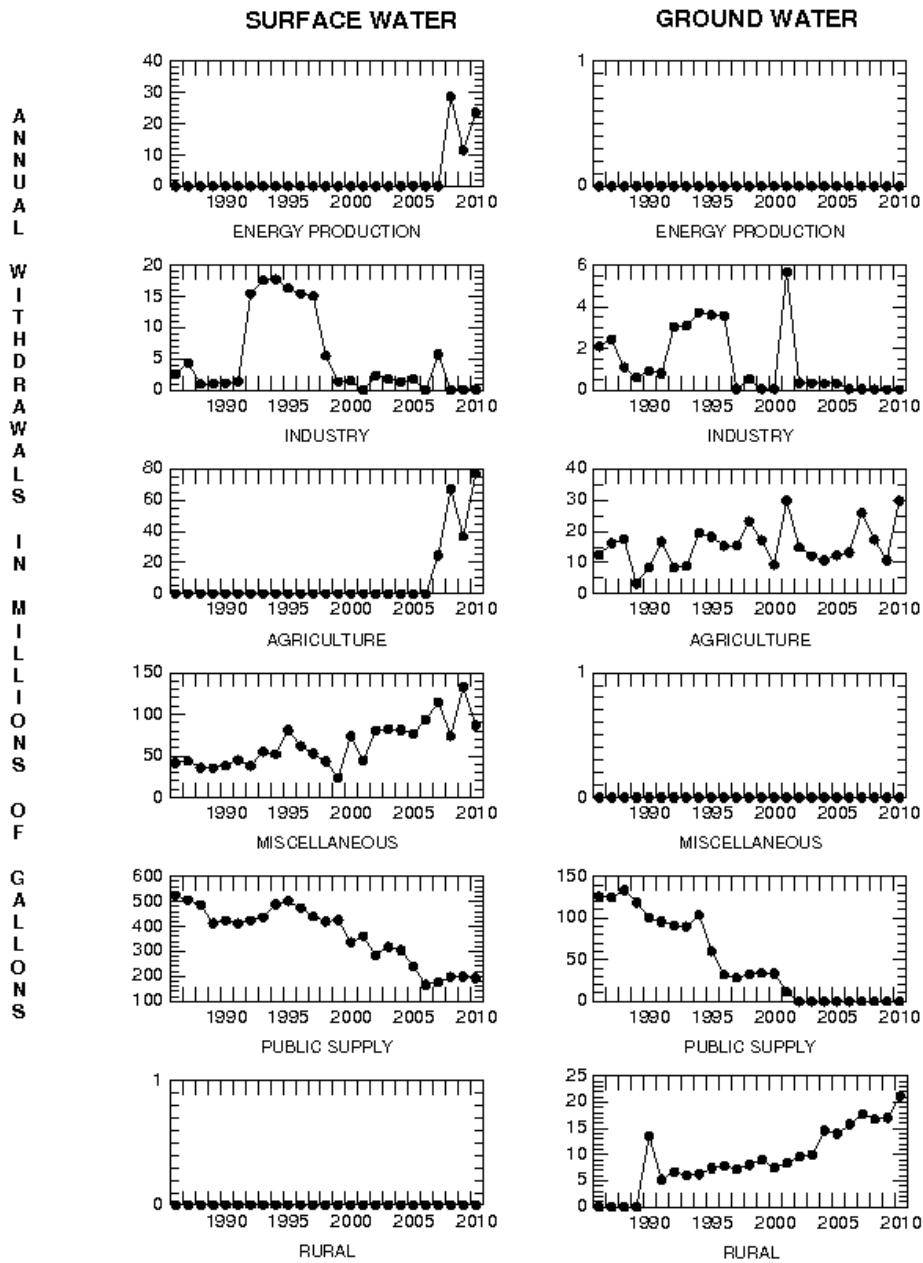
Noble County
Reported Withdrawals, 1986-2010



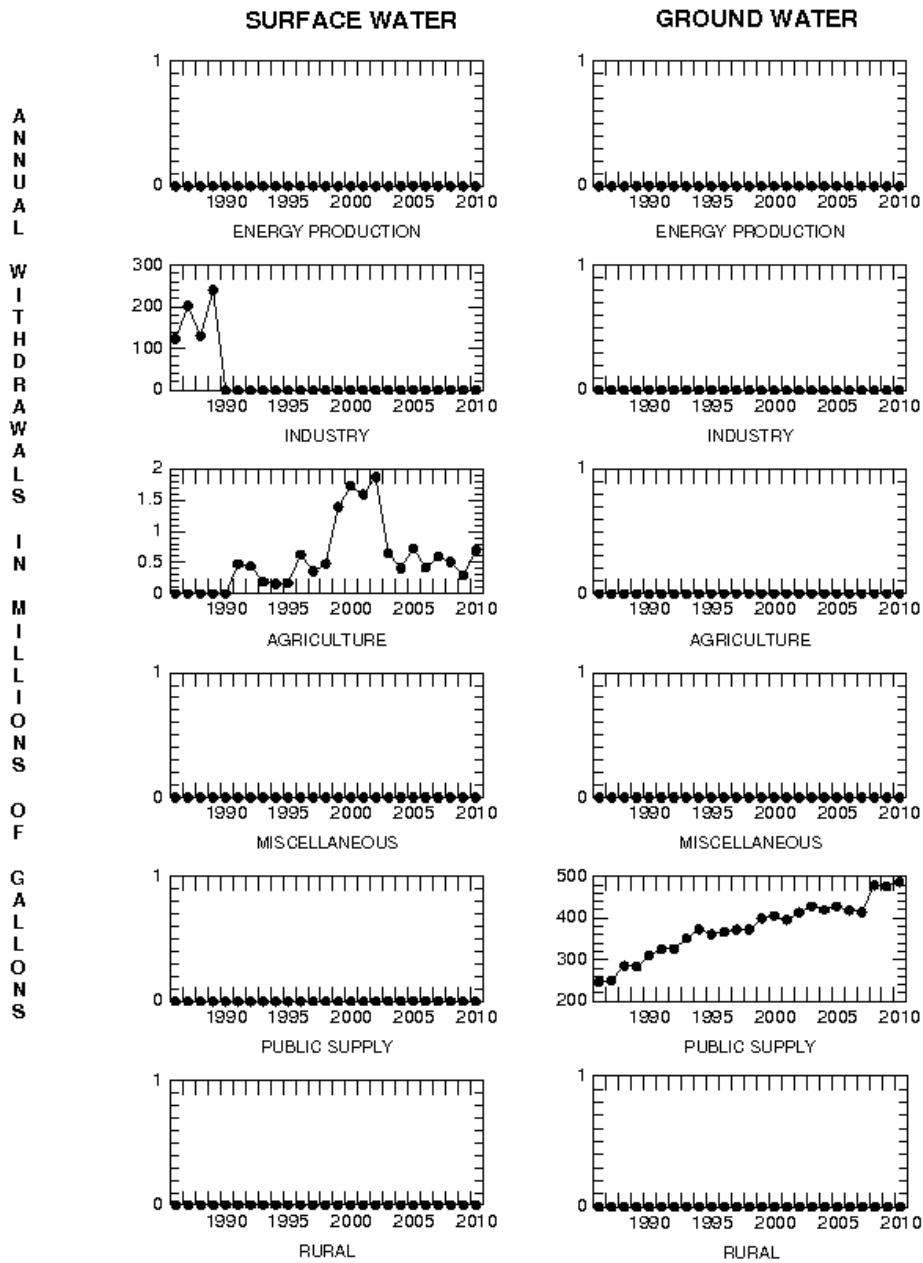
Ohio County
Reported Withdrawals, 1986-2010



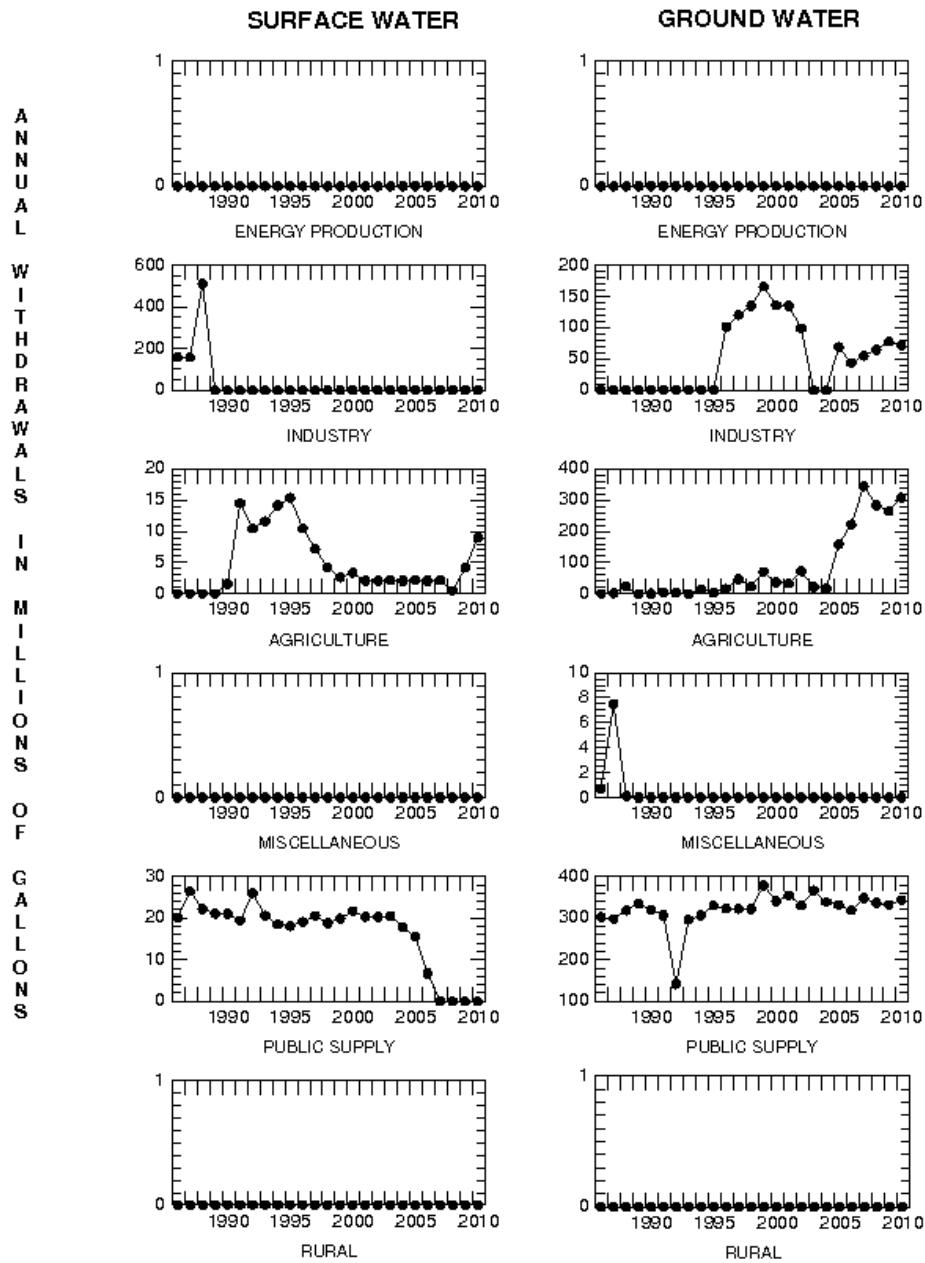
Orange County
Reported Withdrawals, 1986-2010



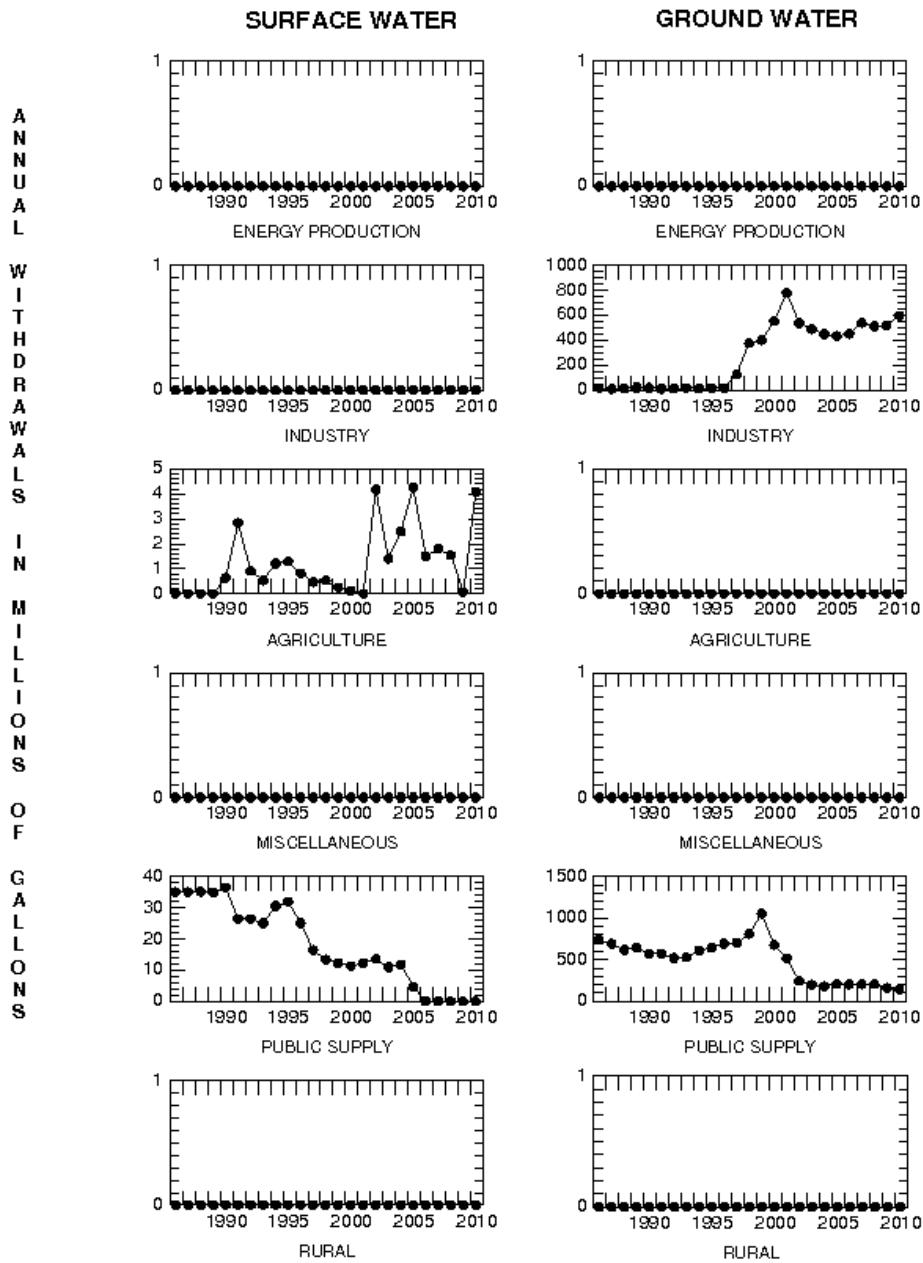
Owen County
Reported Withdrawals, 1986-2010



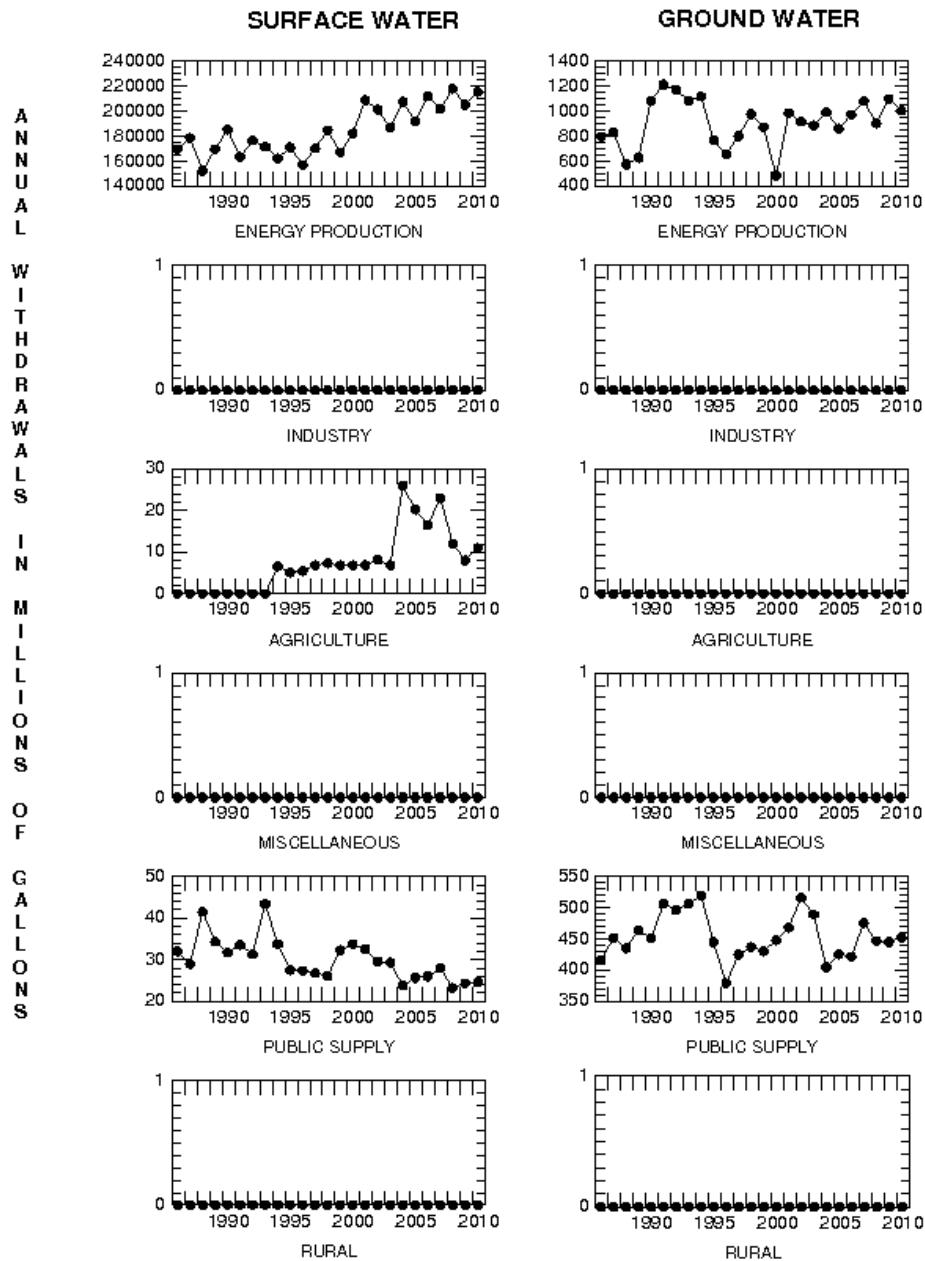
Parke County
Reported Withdrawals, 1986-2010



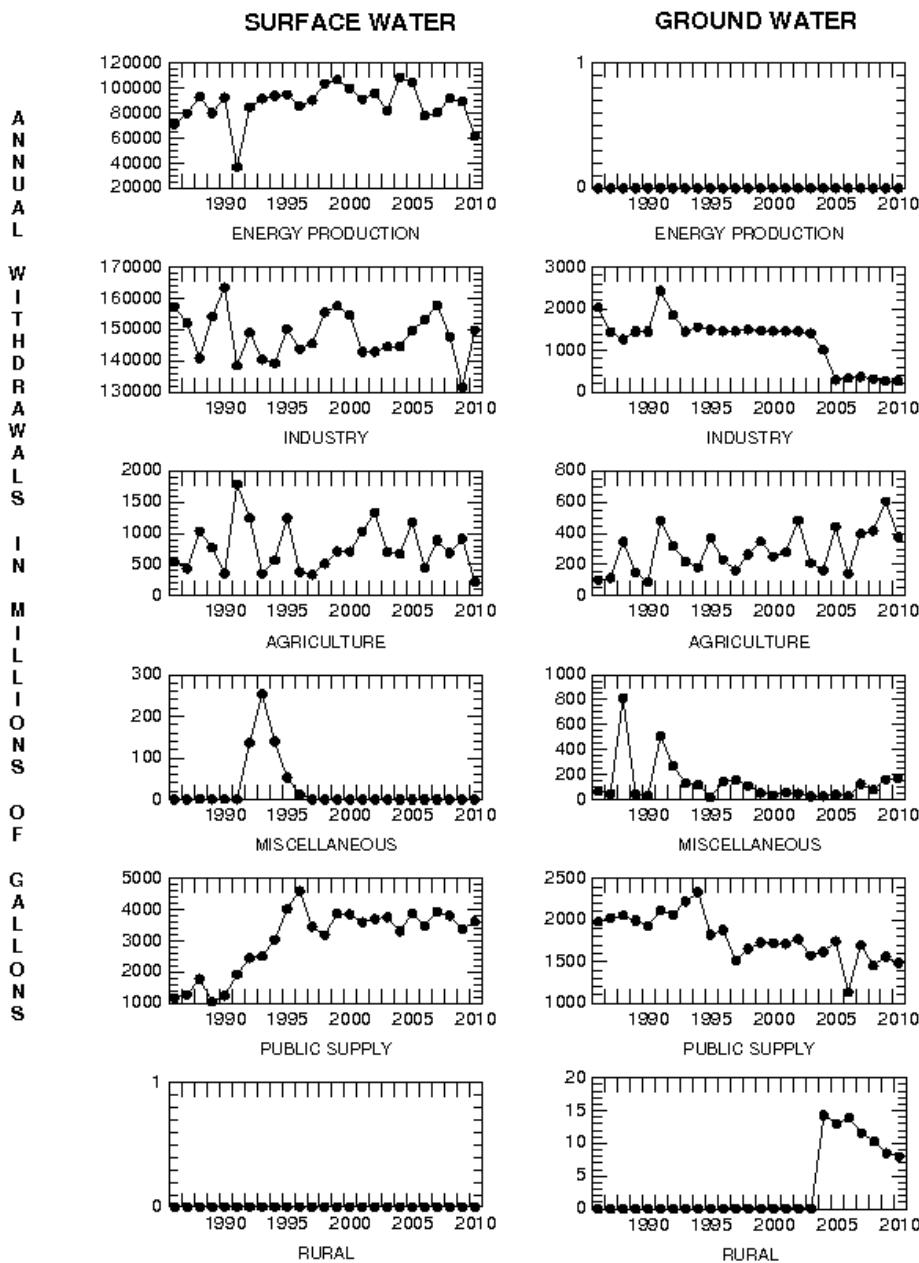
Perry County
Reported Withdrawals, 1986-2010



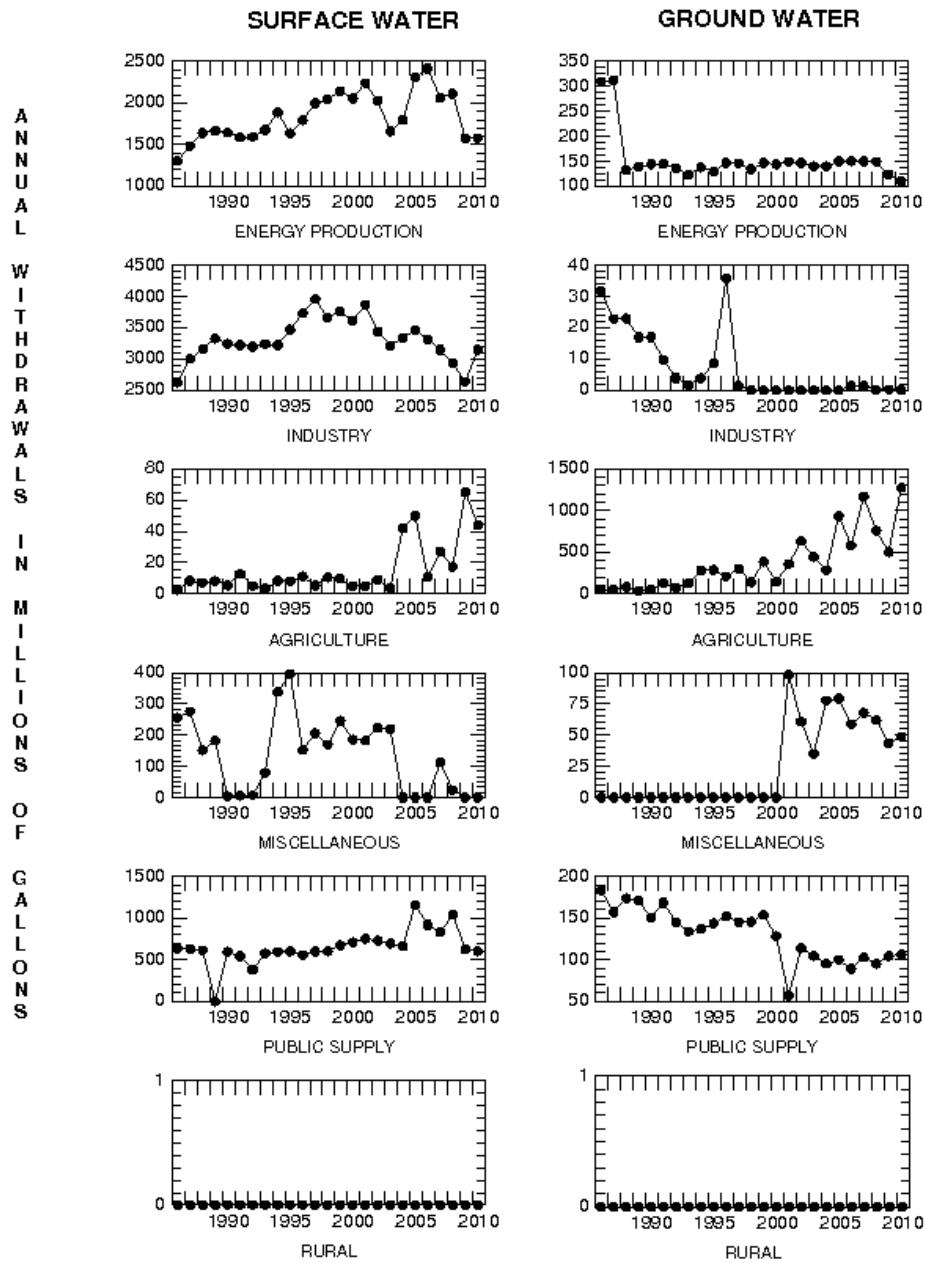
Pike County
Reported Withdrawals, 1986-2010



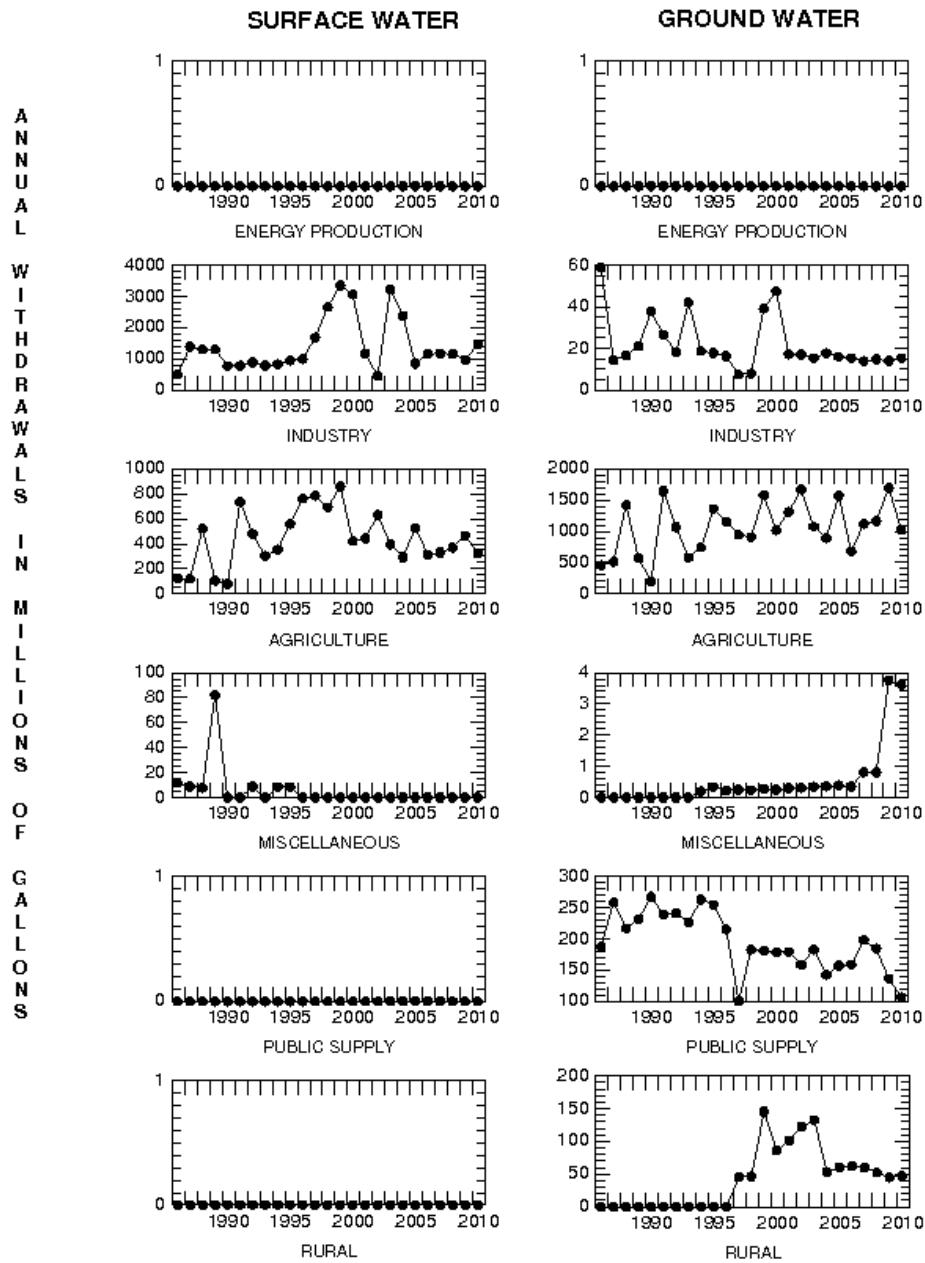
**Porter County
Reported Withdrawals, 1986-2010**



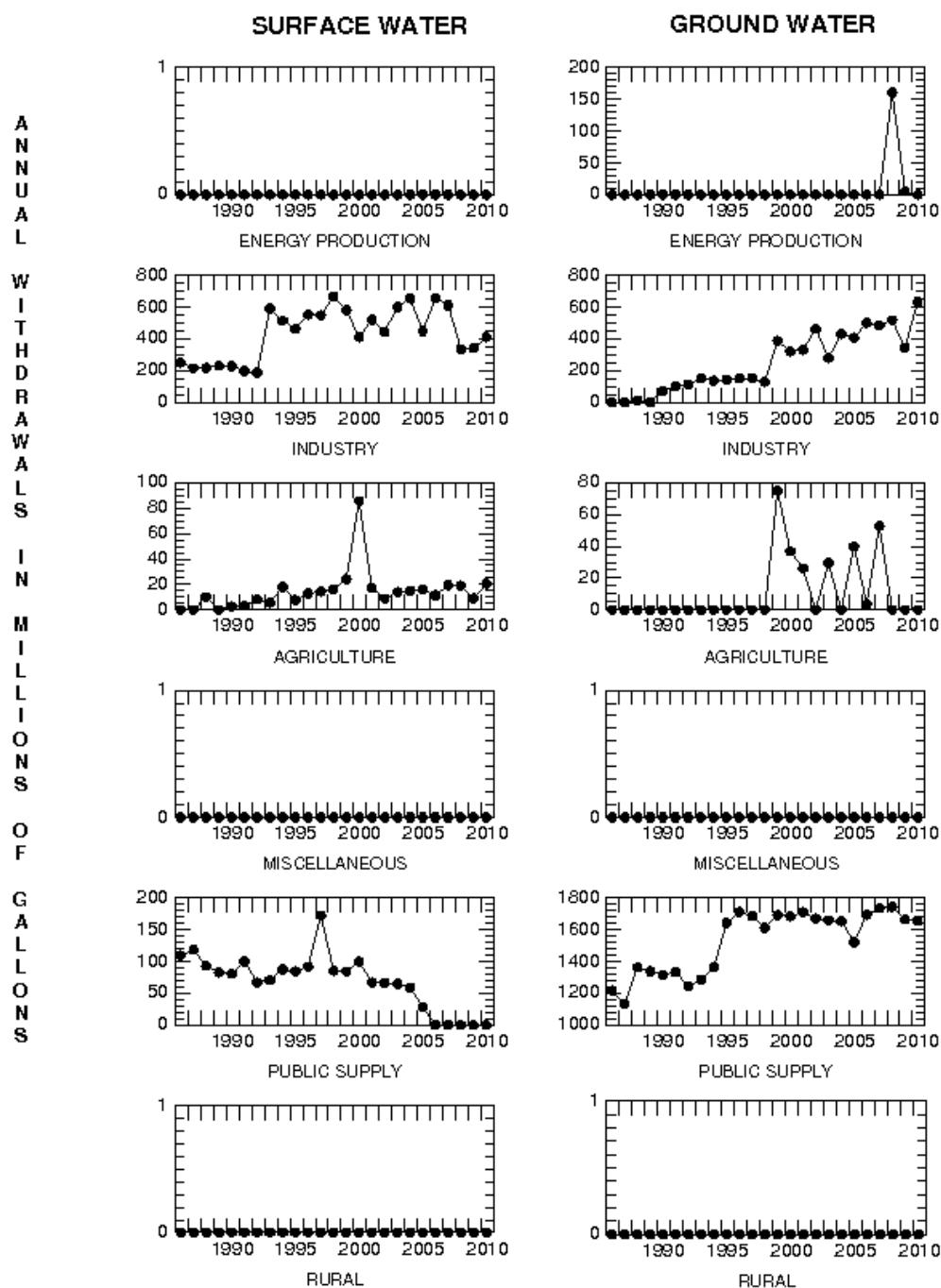
Posey County
Reported Withdrawals, 1986-2010



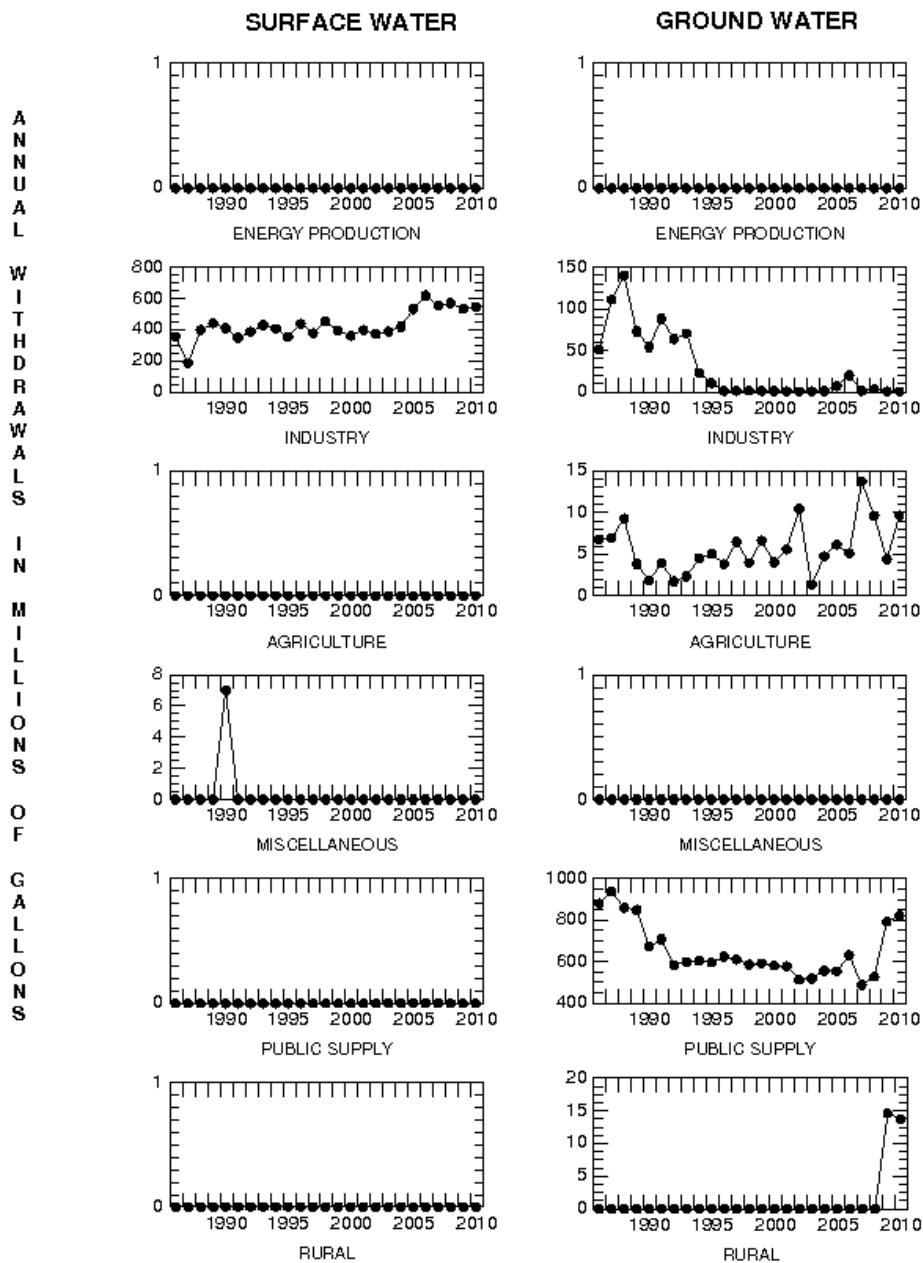
Pulaski County
Reported Withdrawals, 1986-2010



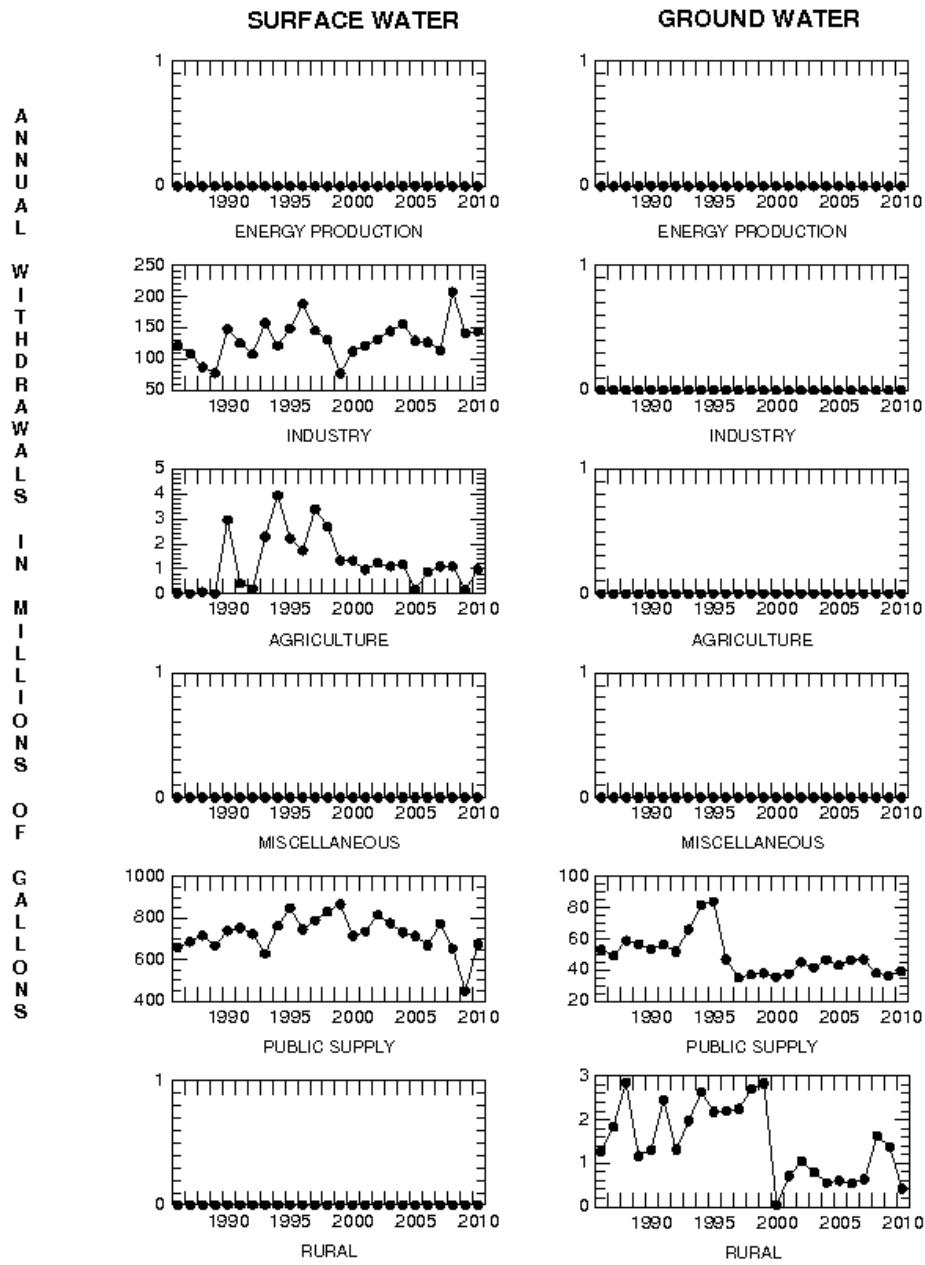
Putnam County
Reported Withdrawals, 1986-2010



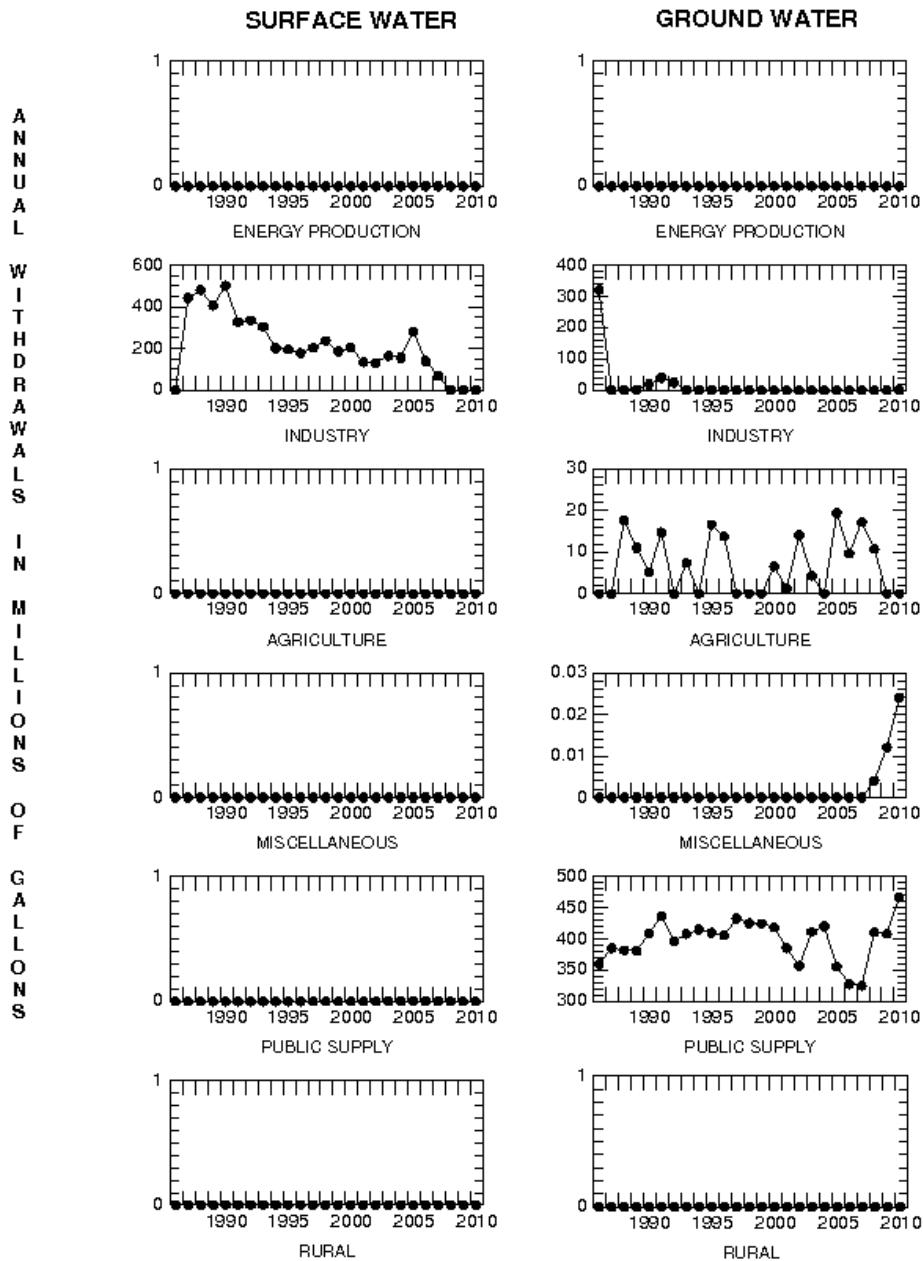
Randolph County
Reported Withdrawals, 1986-2010



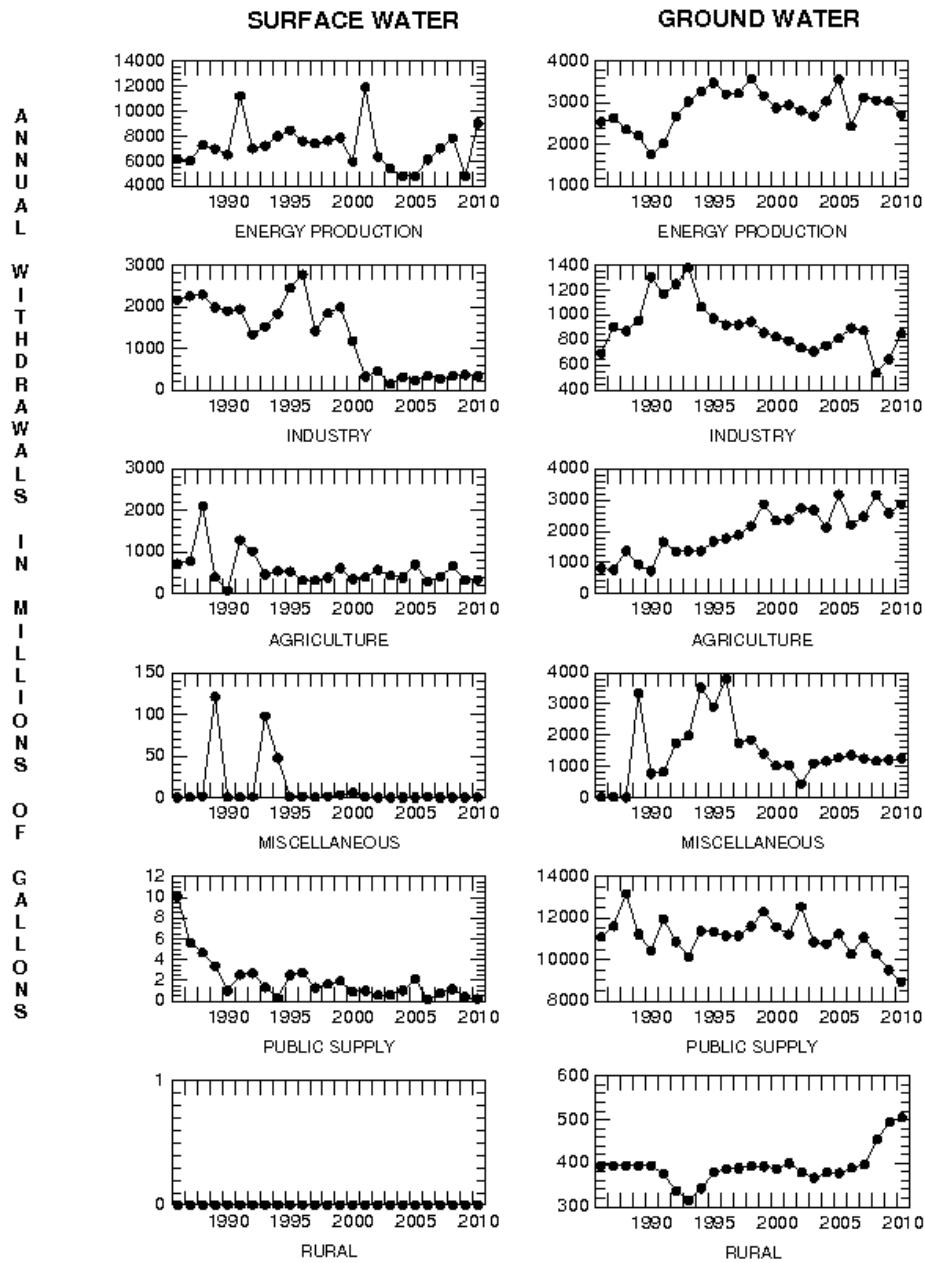
Ripley County
Reported Withdrawals, 1986-2010



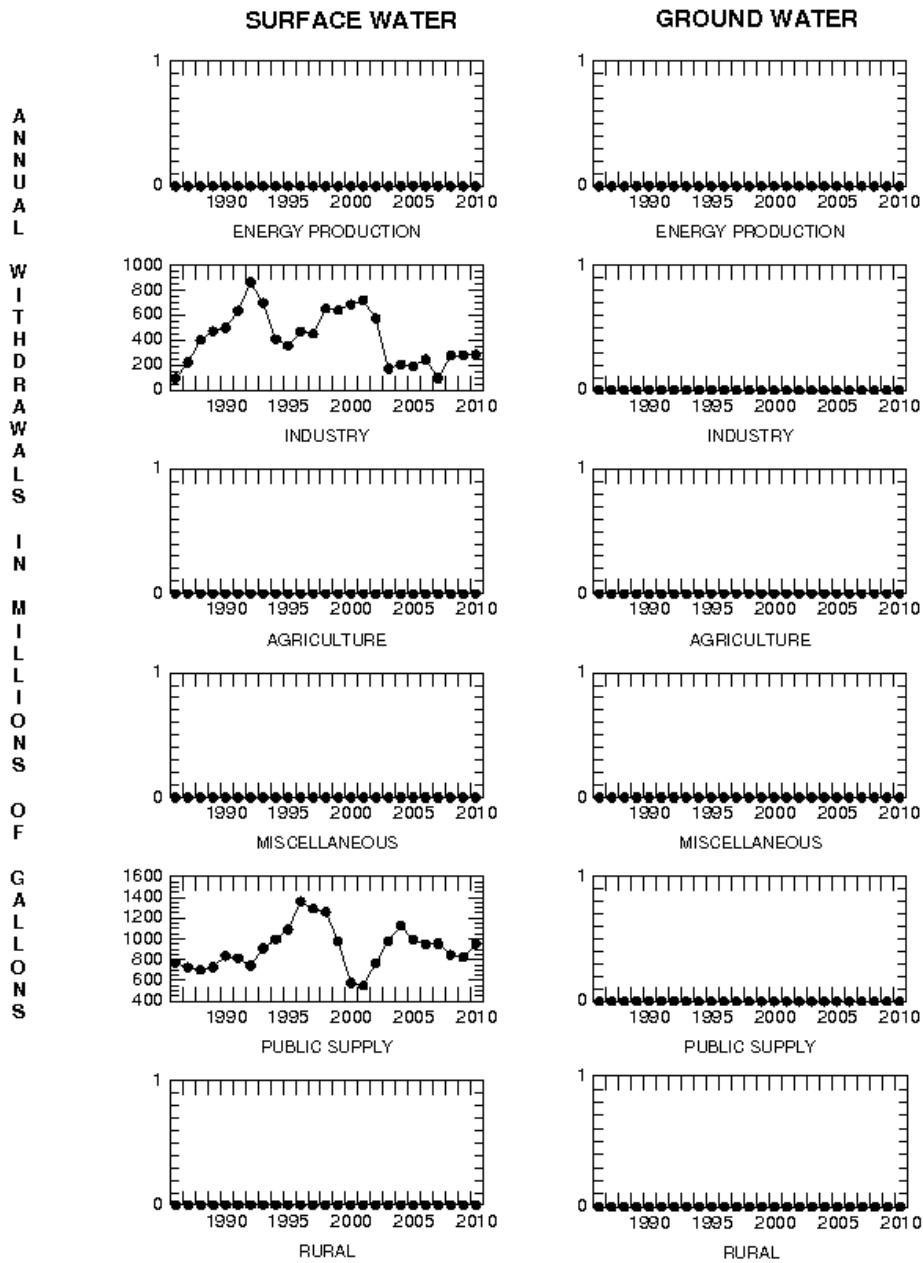
Rush County
Reported Withdrawals, 1986-2010



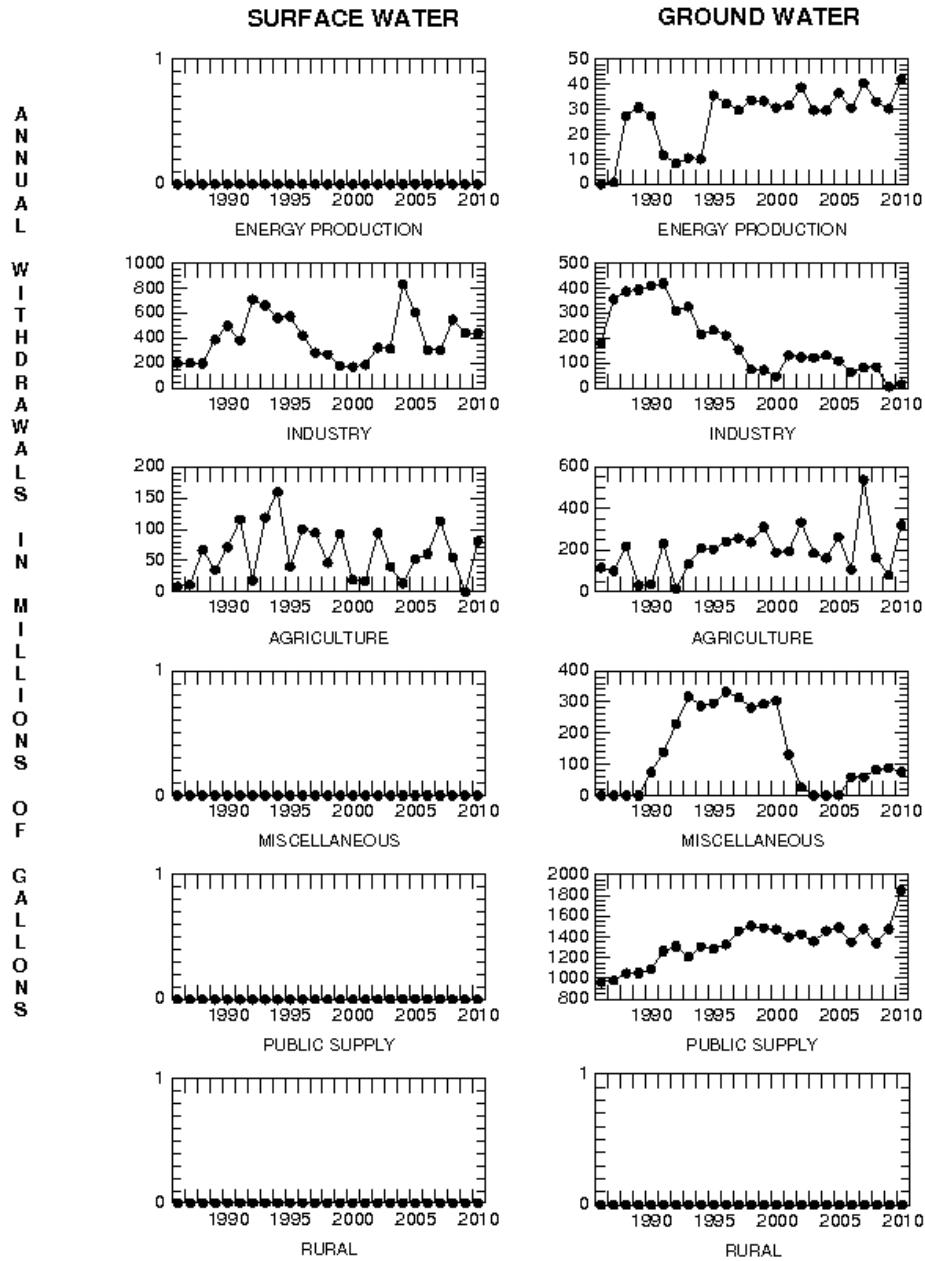
St. Joseph County
Reported Withdrawals, 1986-2010



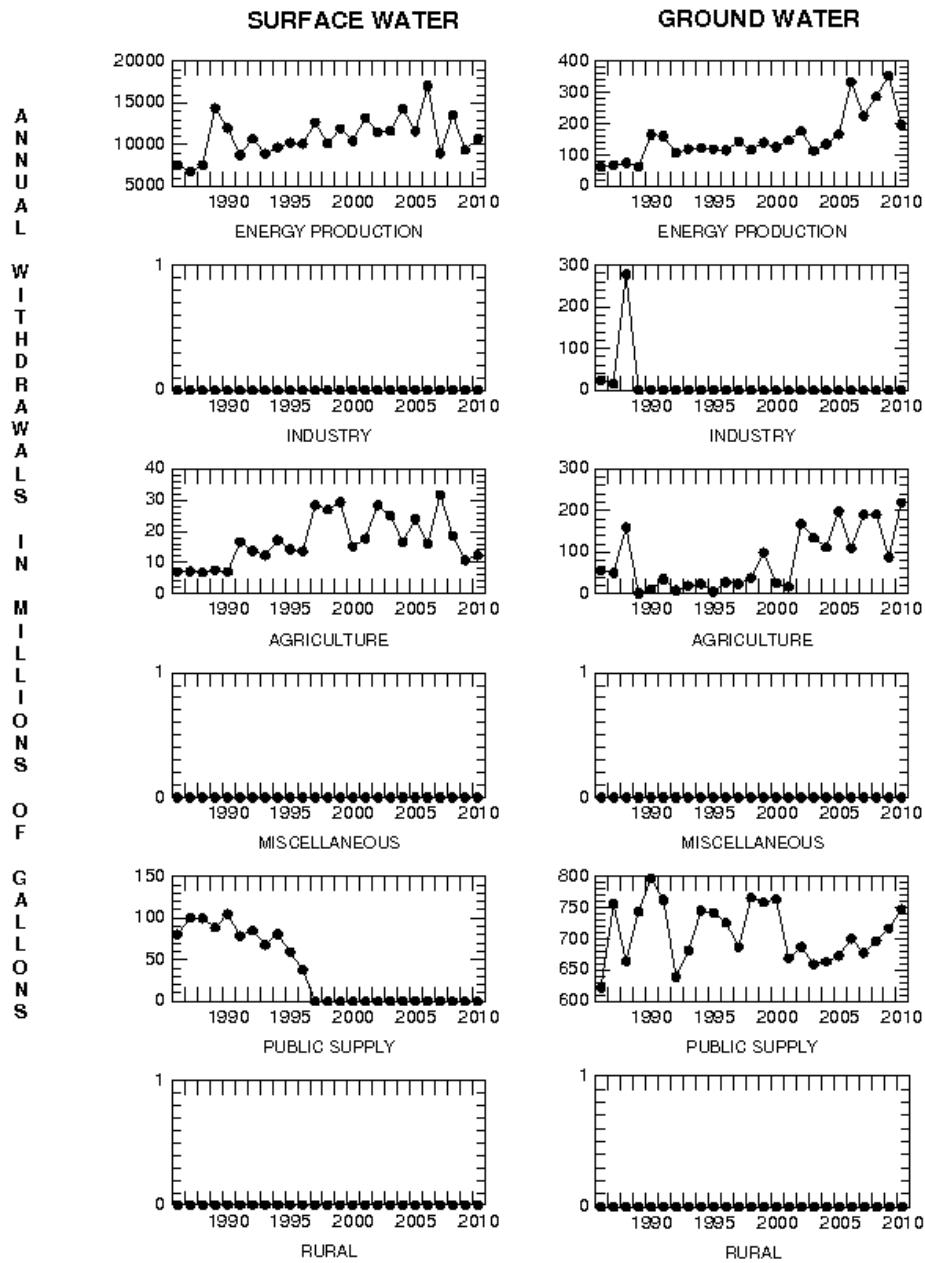
Scott County
Reported Withdrawals, 1986-2010



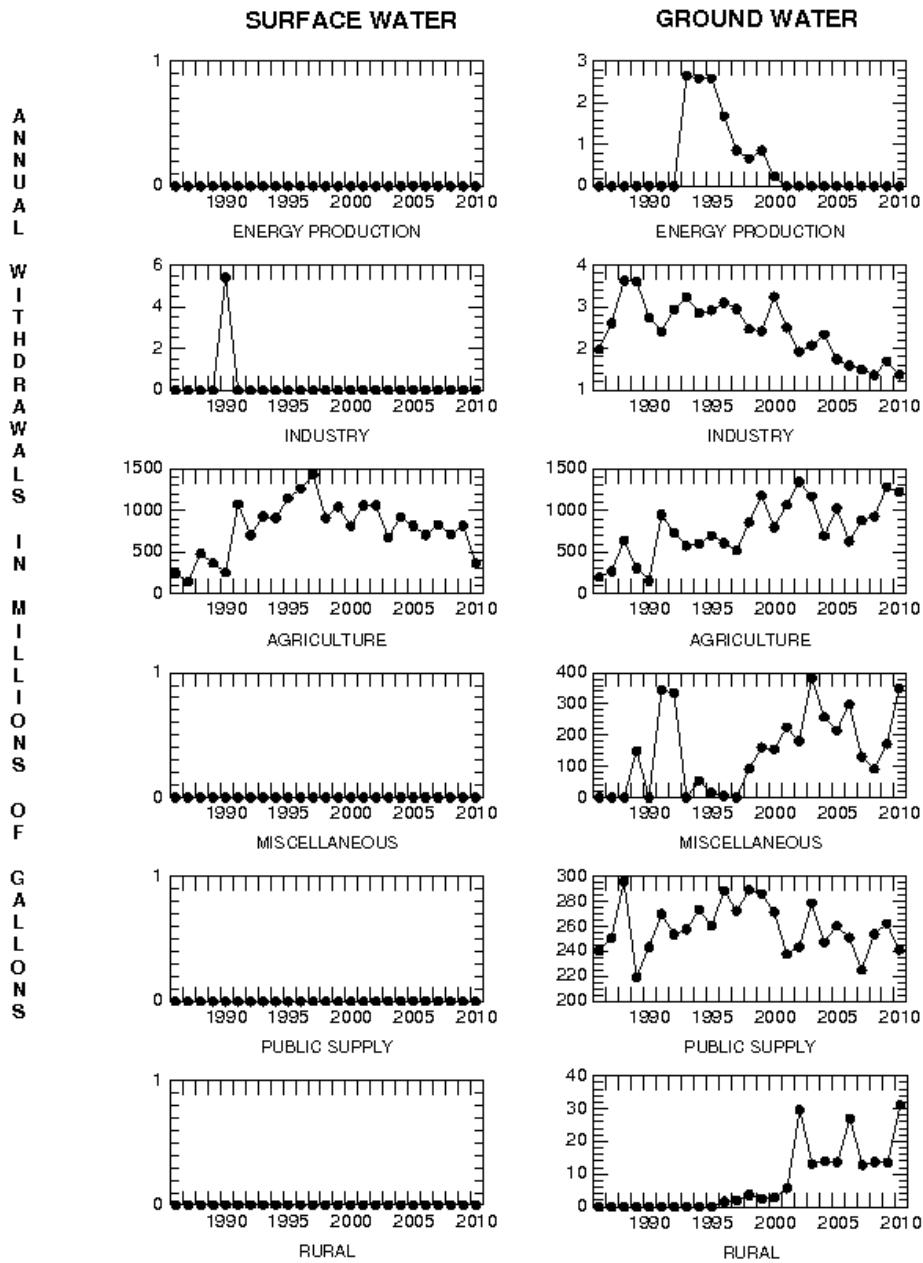
Shelby County
Reported Withdrawals, 1986-2010



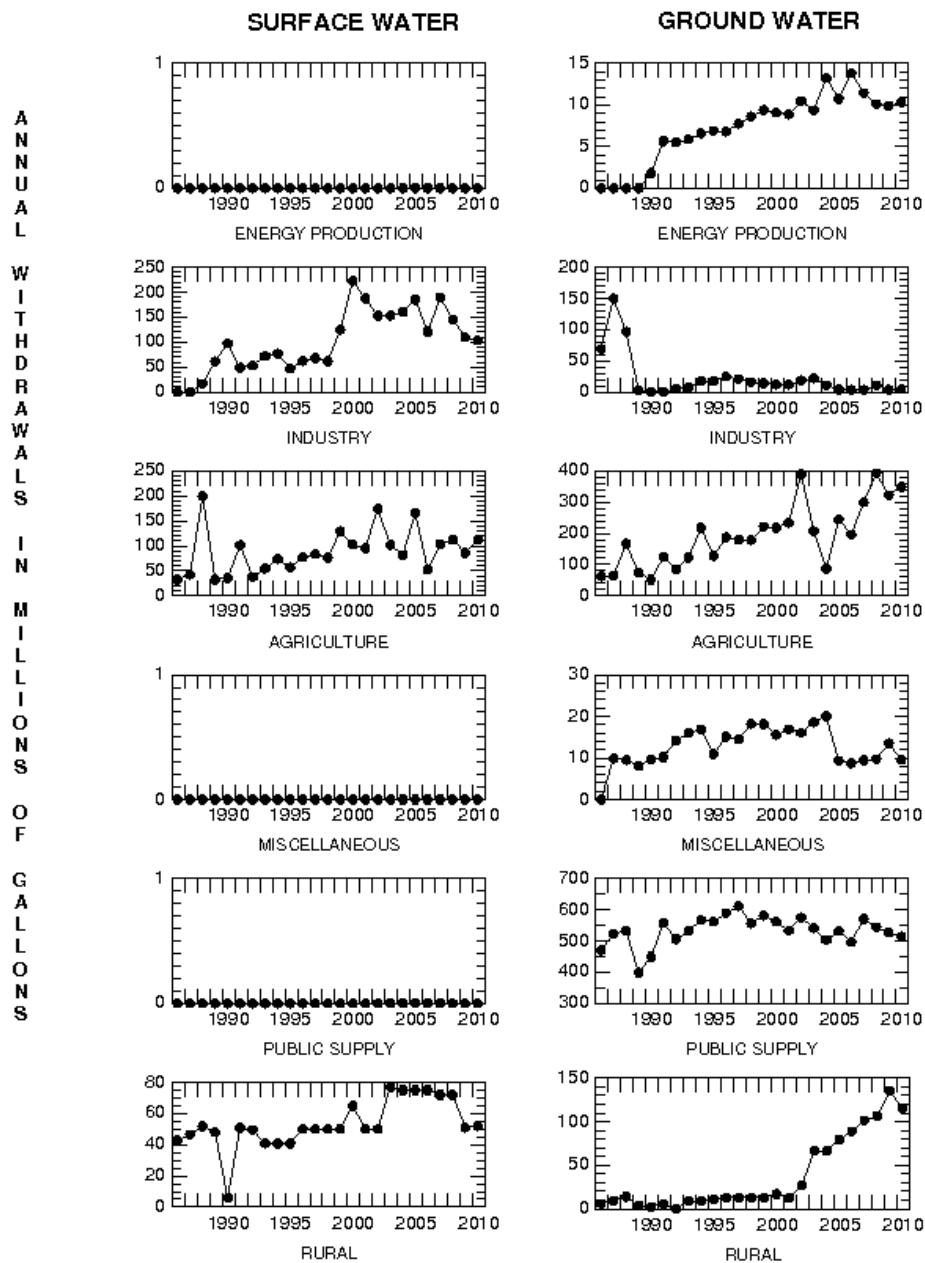
Spencer County
Reported Withdrawals, 1986-2010



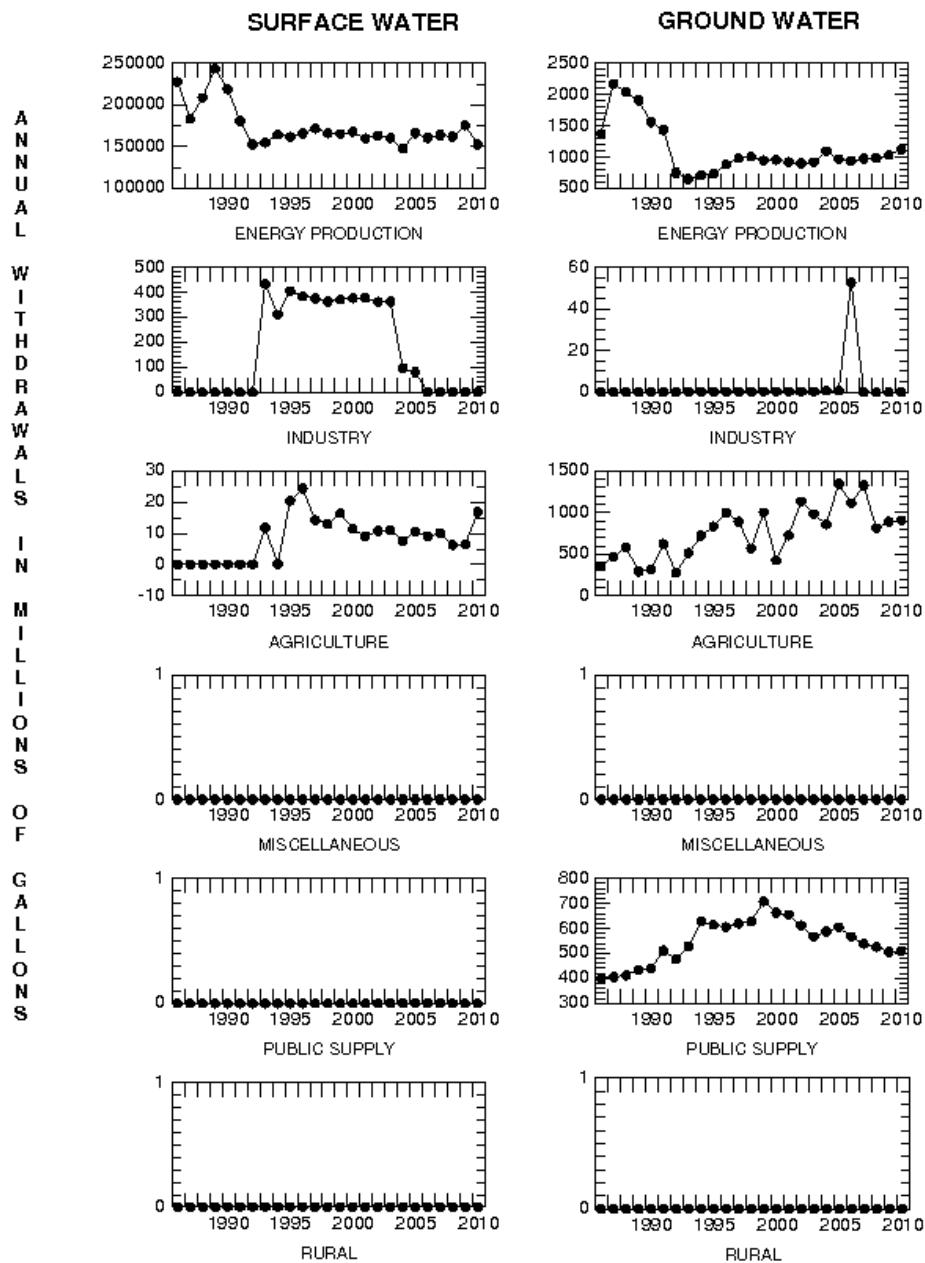
Starke County
Reported Withdrawals, 1986-2010



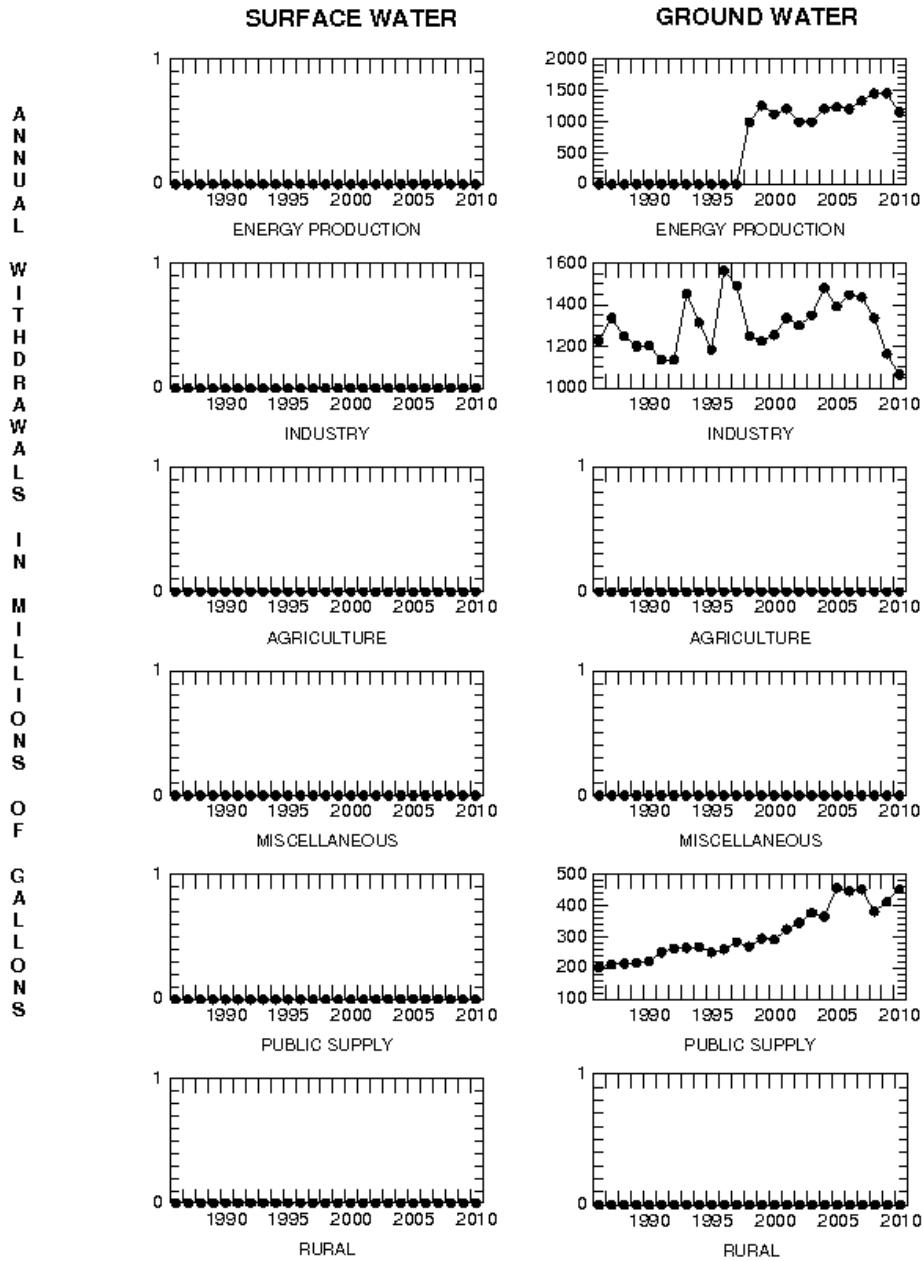
Steuben County
Reported Withdrawals, 1986-2010



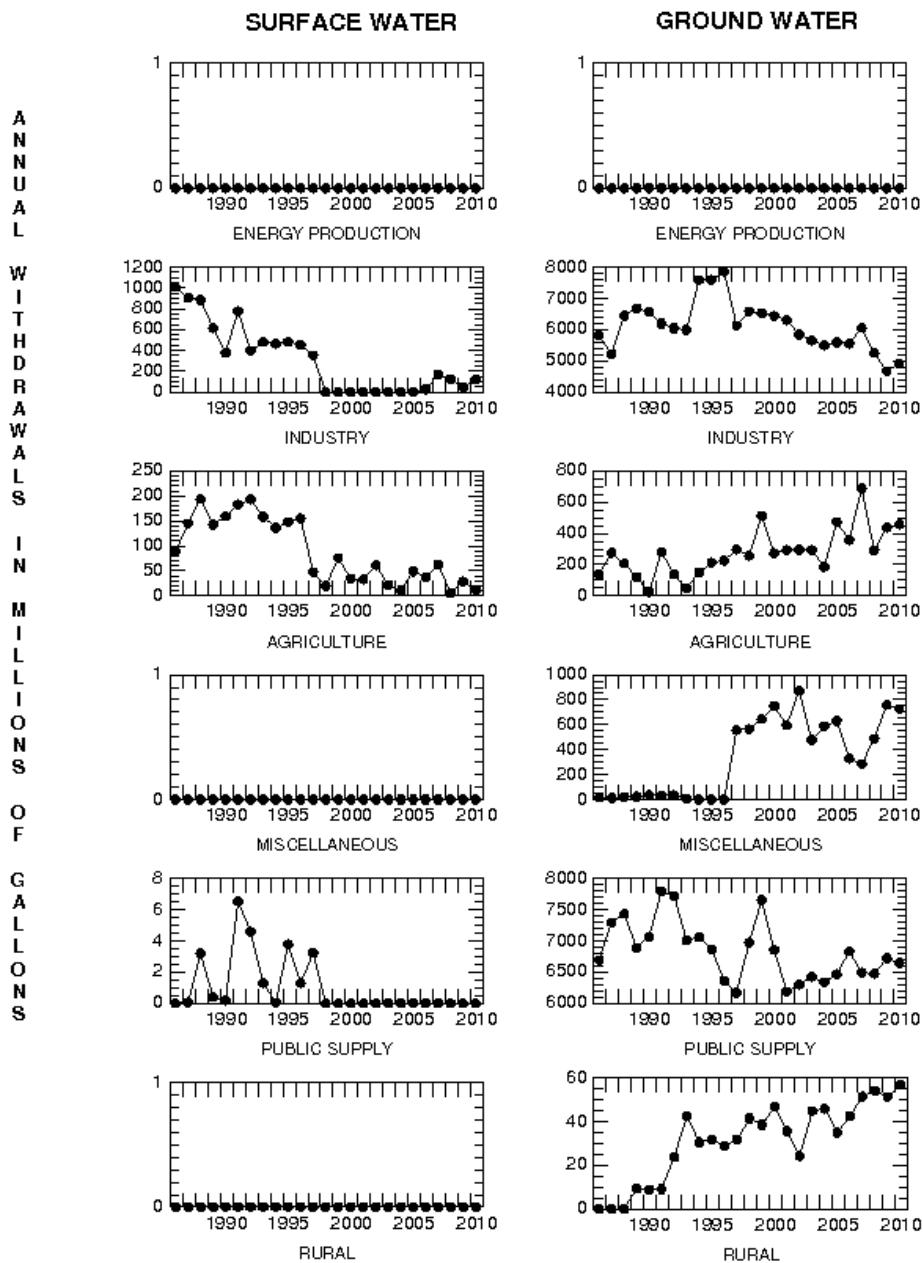
Sullivan County
Reported Withdrawals, 1986-2010



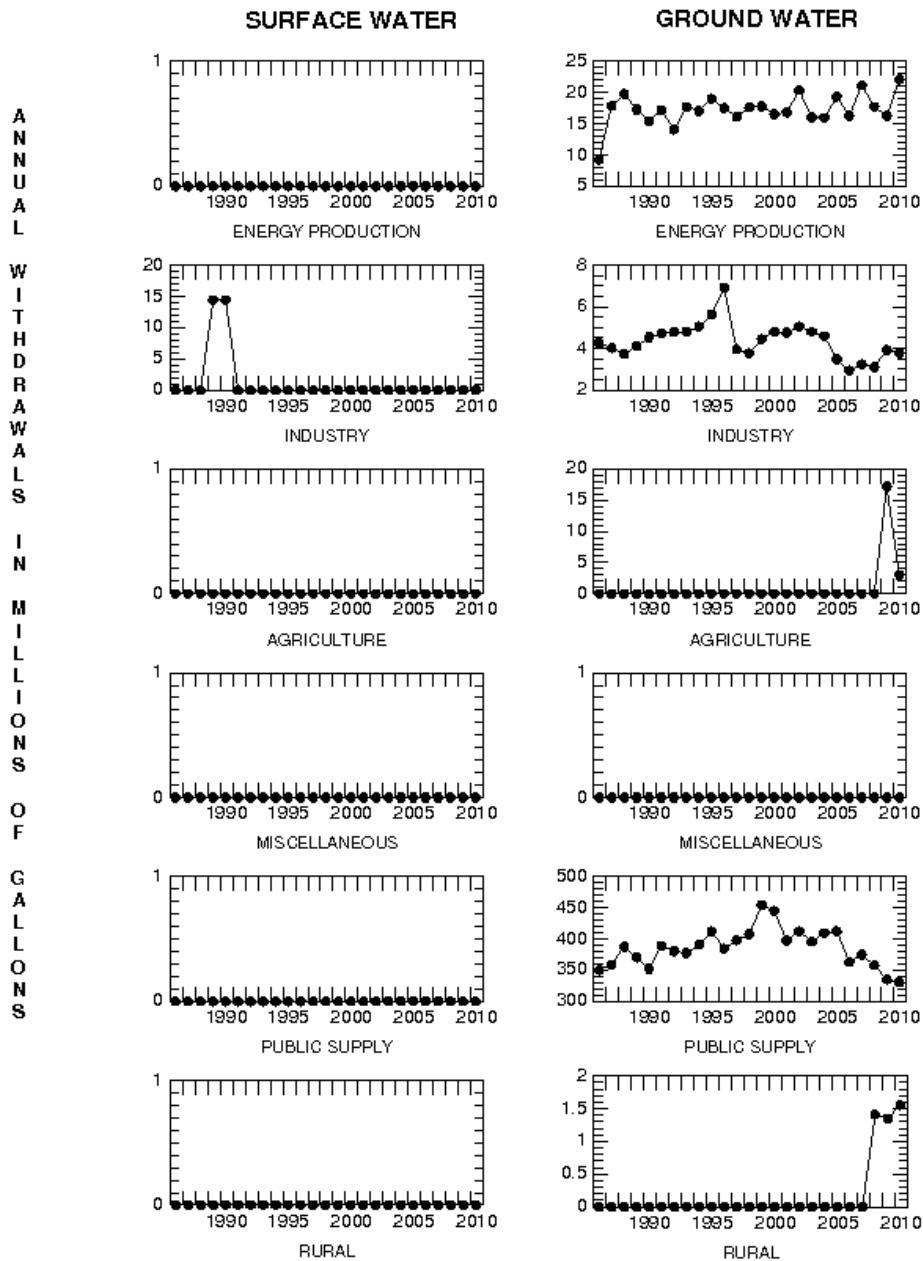
Switzerland County
Reported Withdrawals, 1986-2010



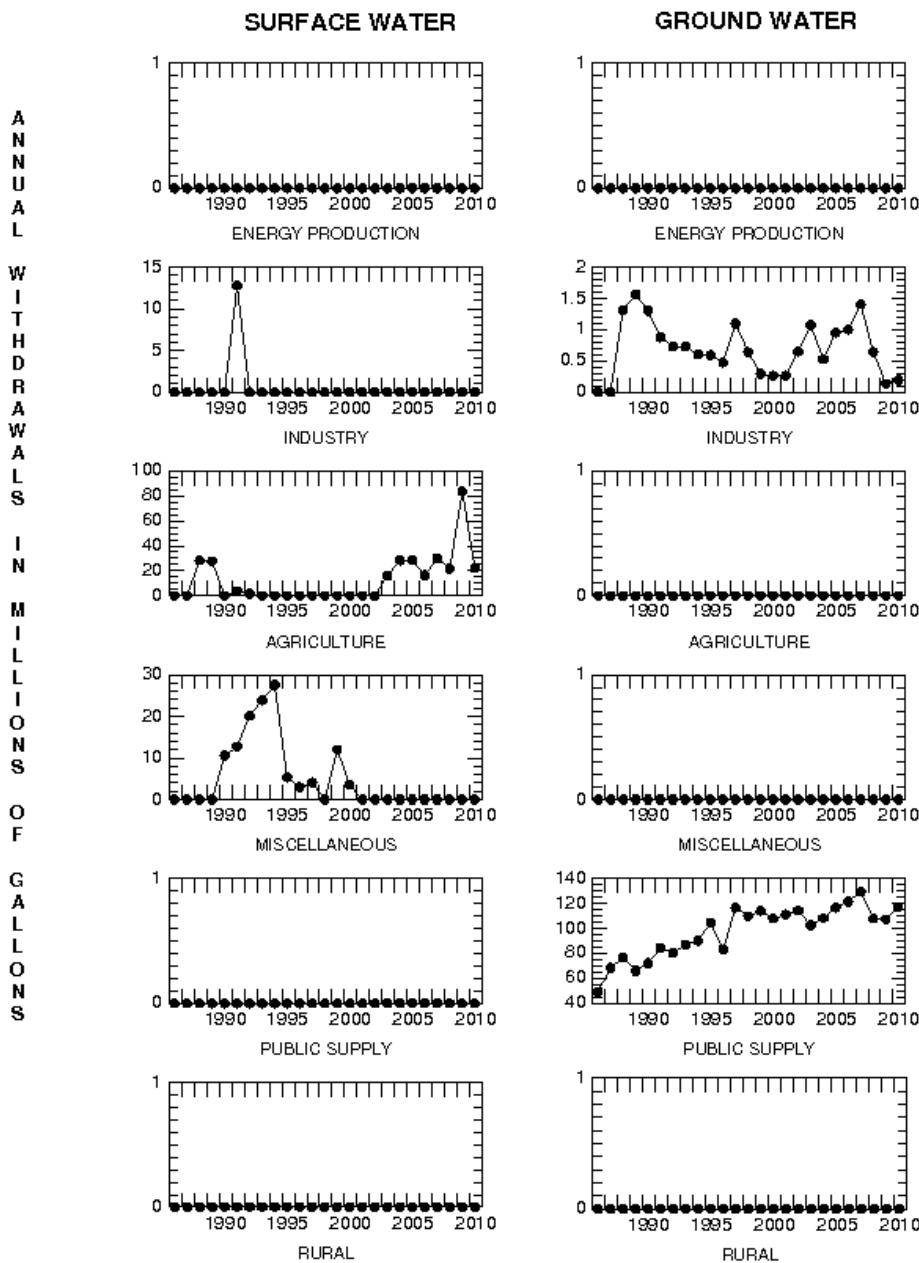
Tippecanoe County
Reported Withdrawals, 1986-2010



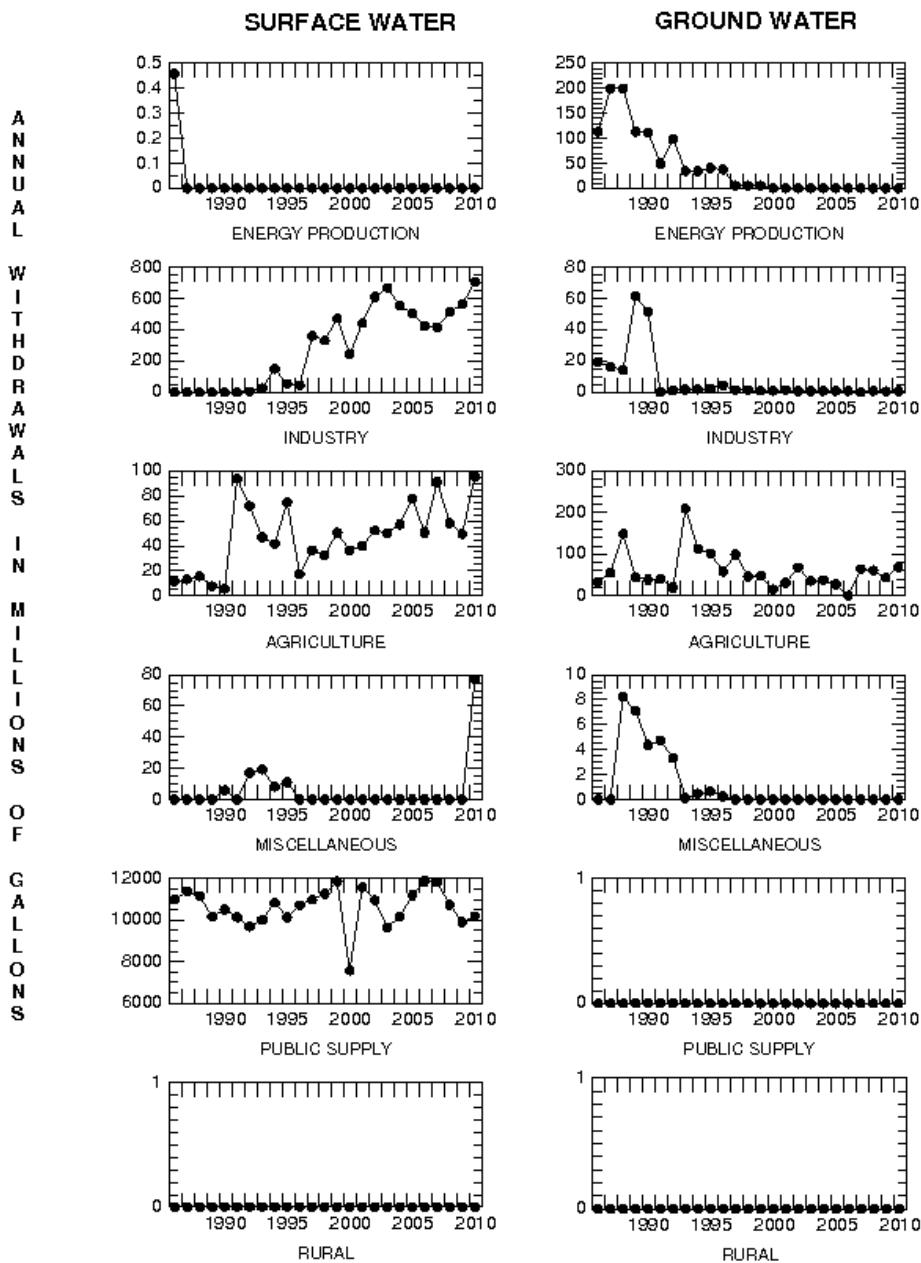
Tipton County
Reported Withdrawals, 1986-2010



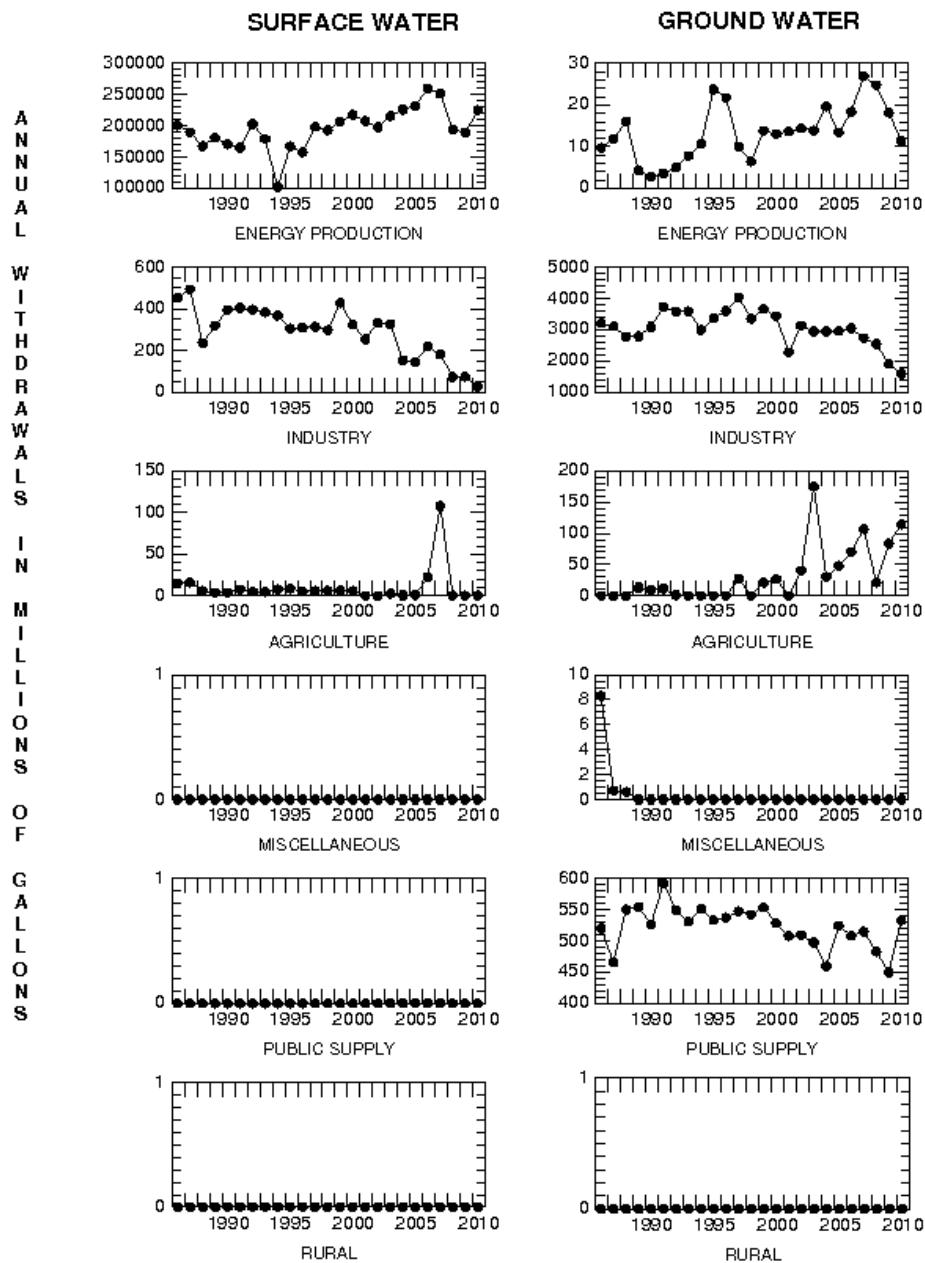
Union County
Reported Withdrawals, 1986-2010



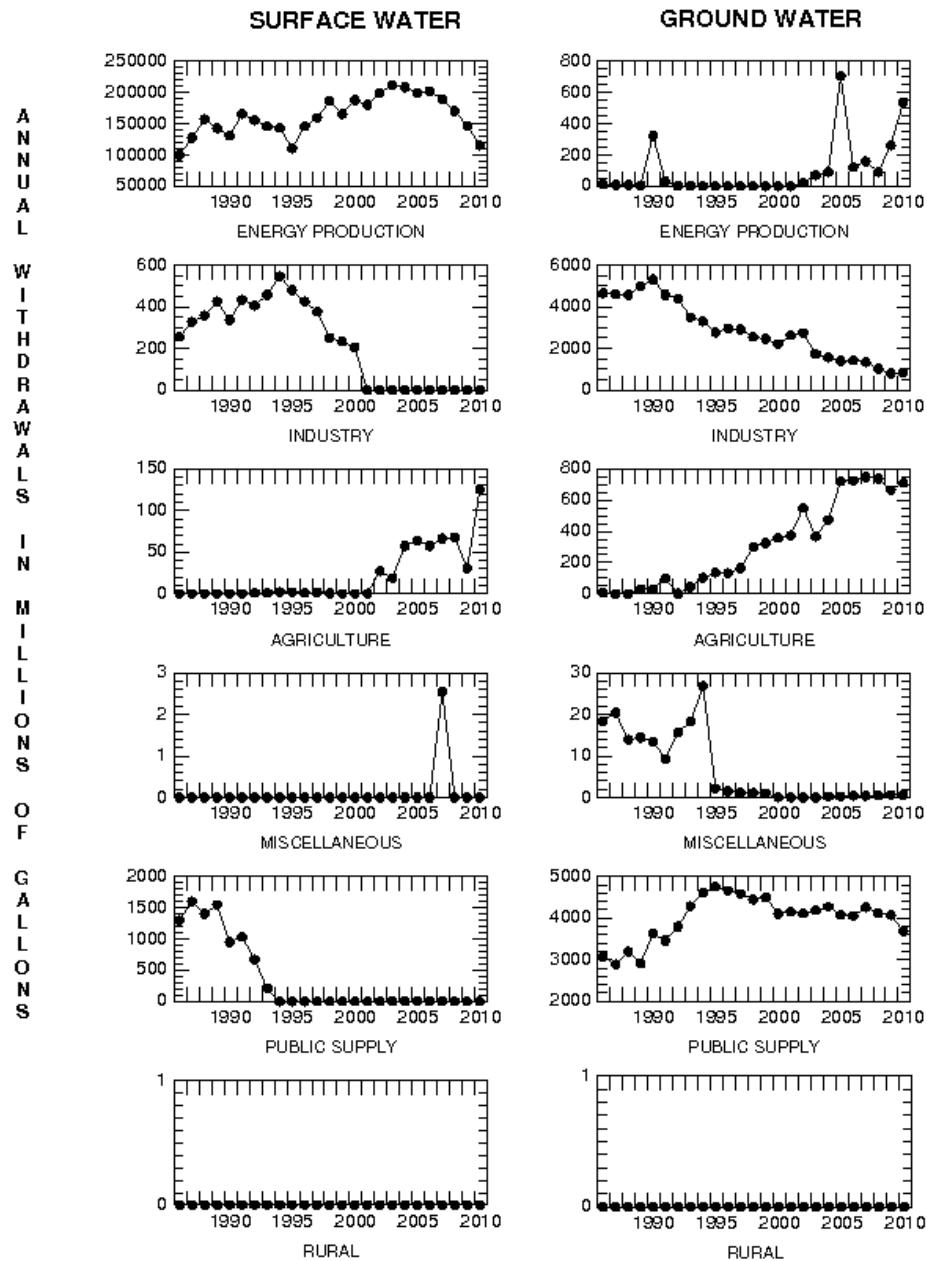
**Vanderburgh County
Reported Withdrawals, 1986-2010**



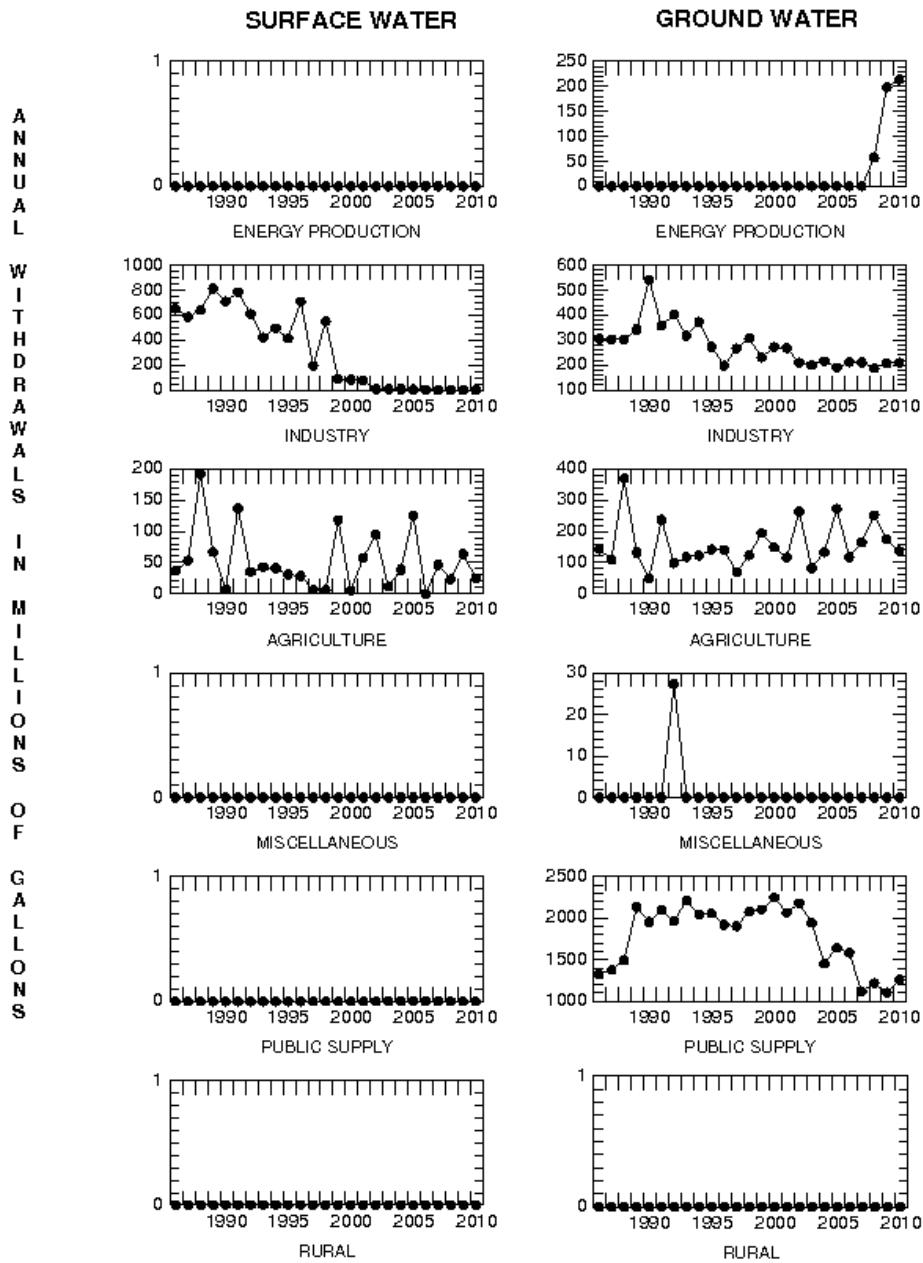
Vermillion County
Reported Withdrawals, 1986-2010



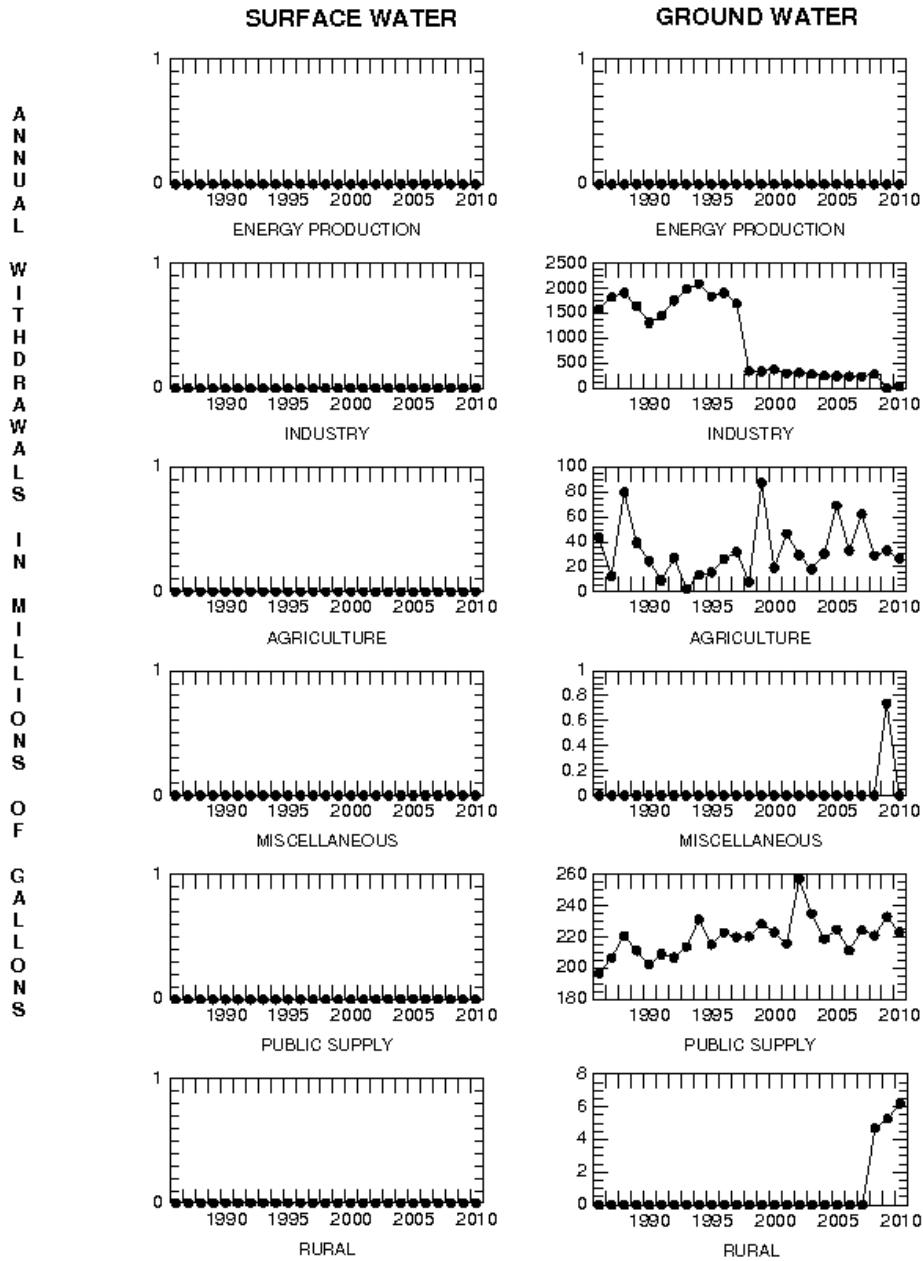
Vigo County
Reported Withdrawals, 1986-2010



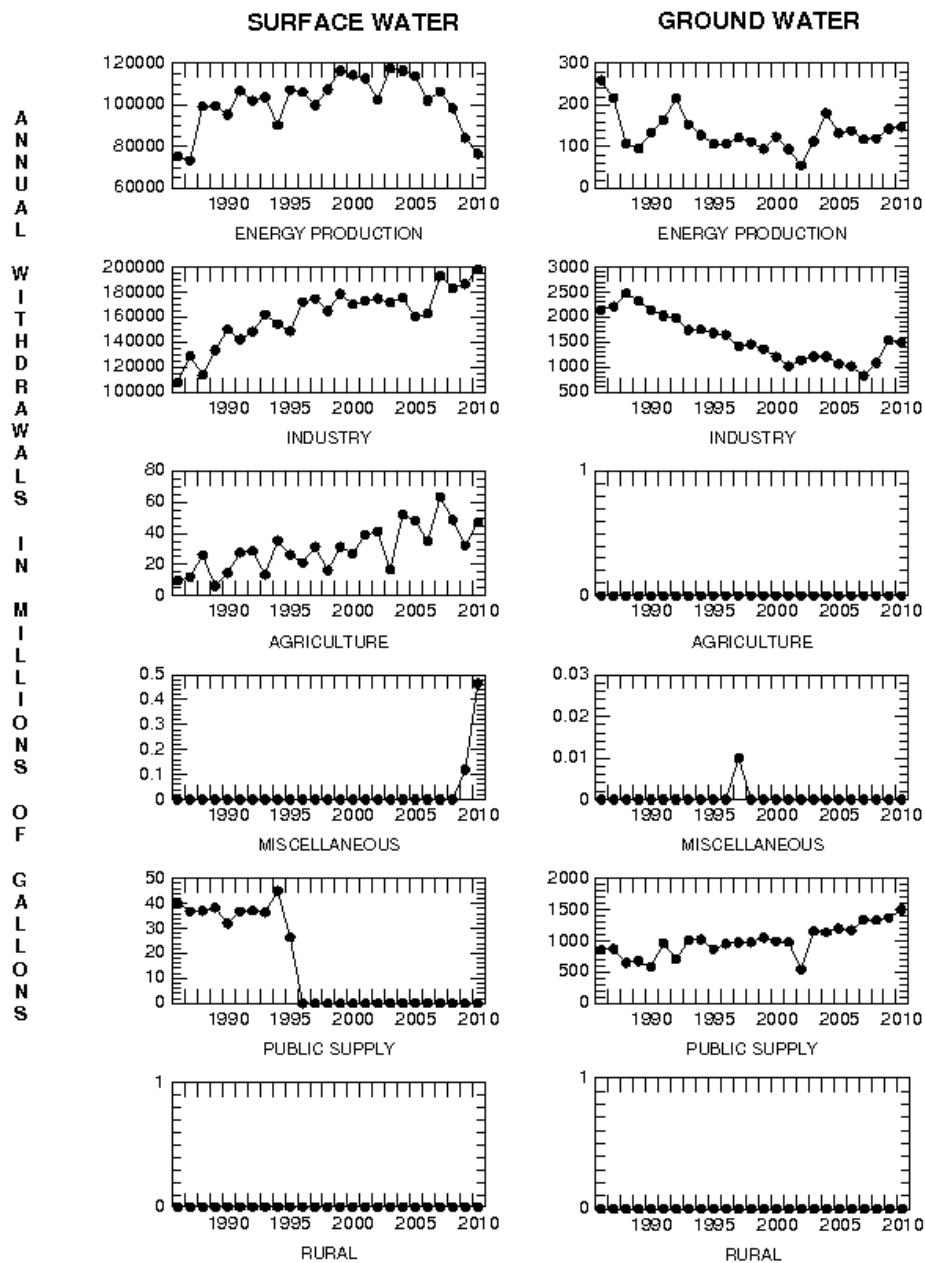
Wabash County
Reported Withdrawals, 1986-2010



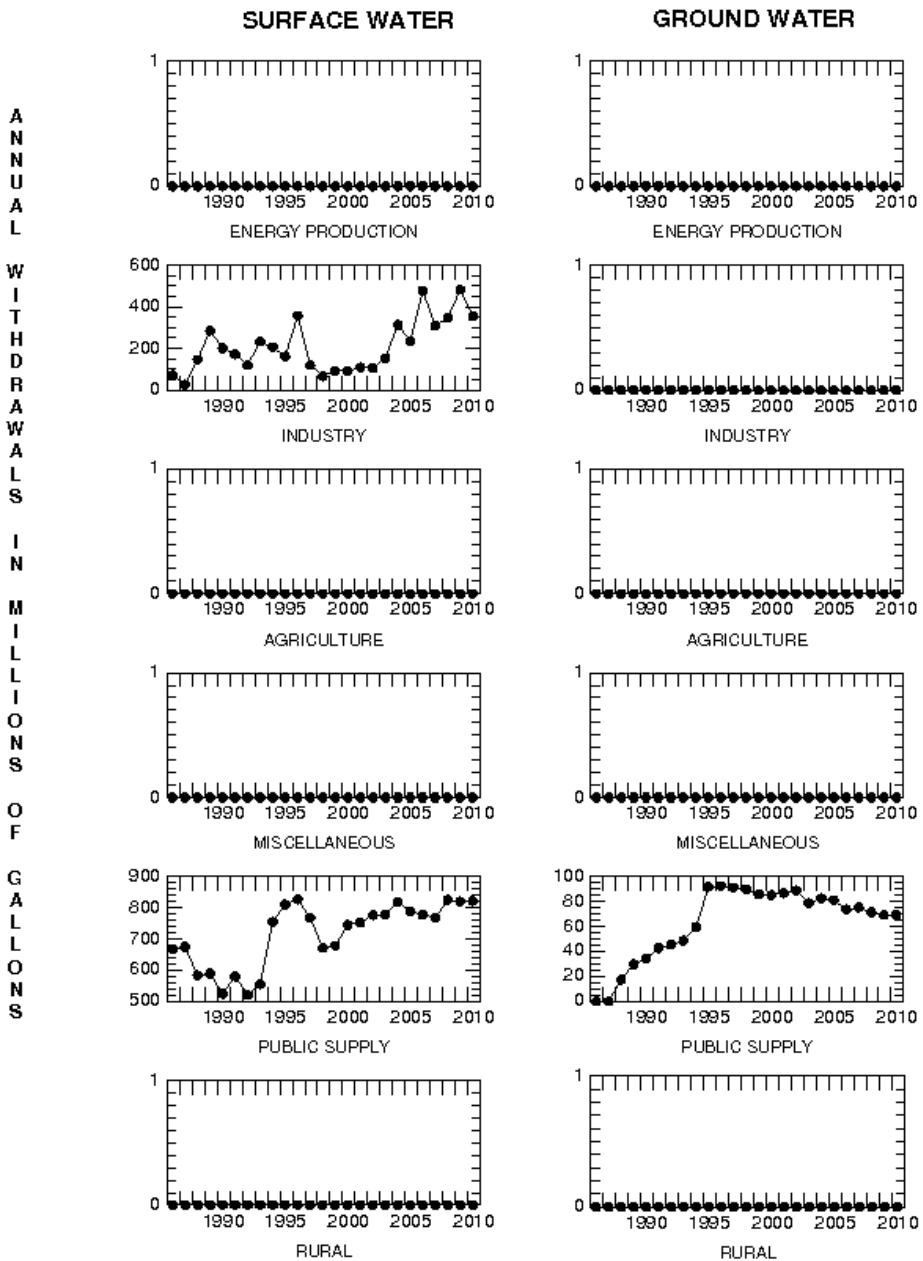
Warren County
Reported Withdrawals, 1986-2010



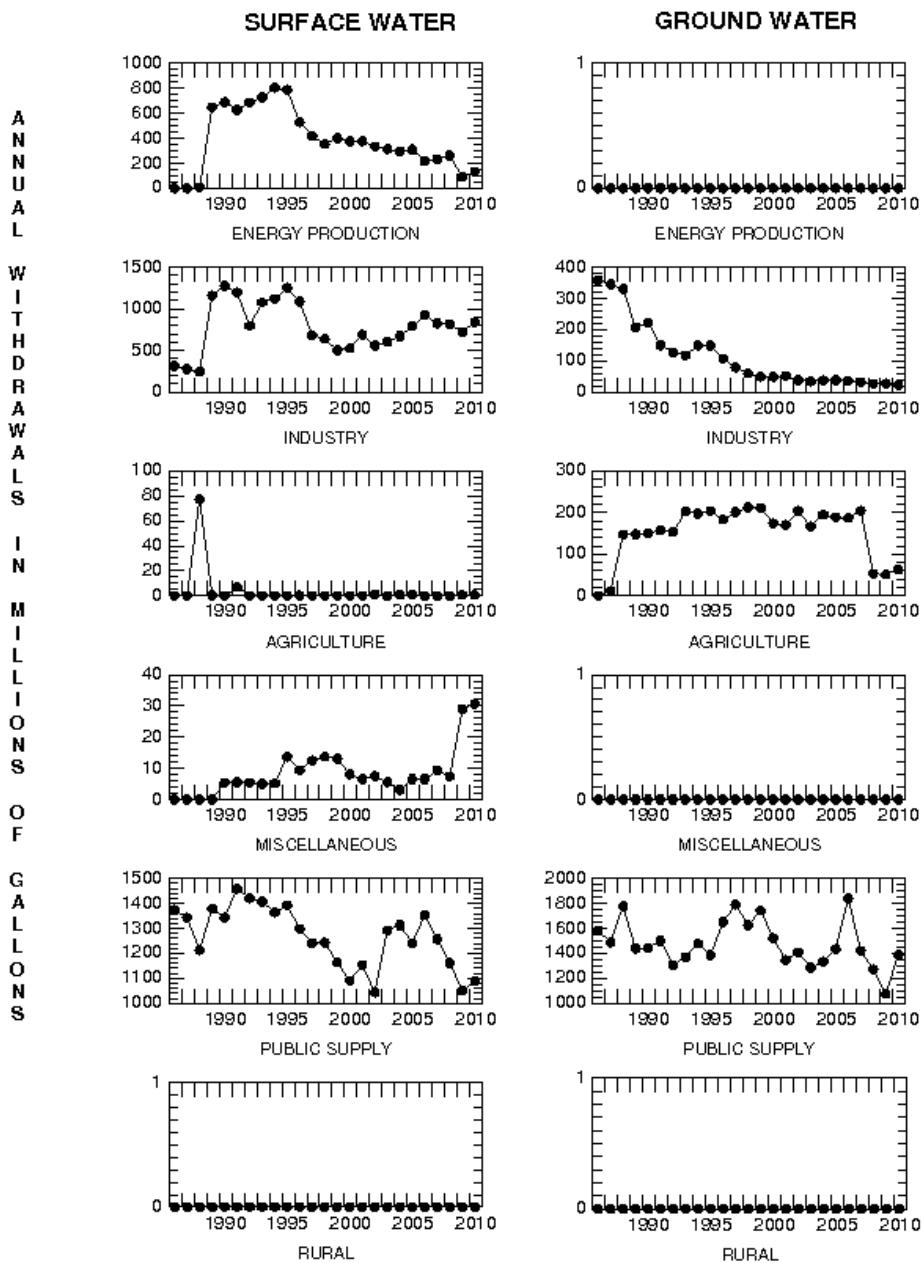
Warrick County
Reported Withdrawals, 1986-2010



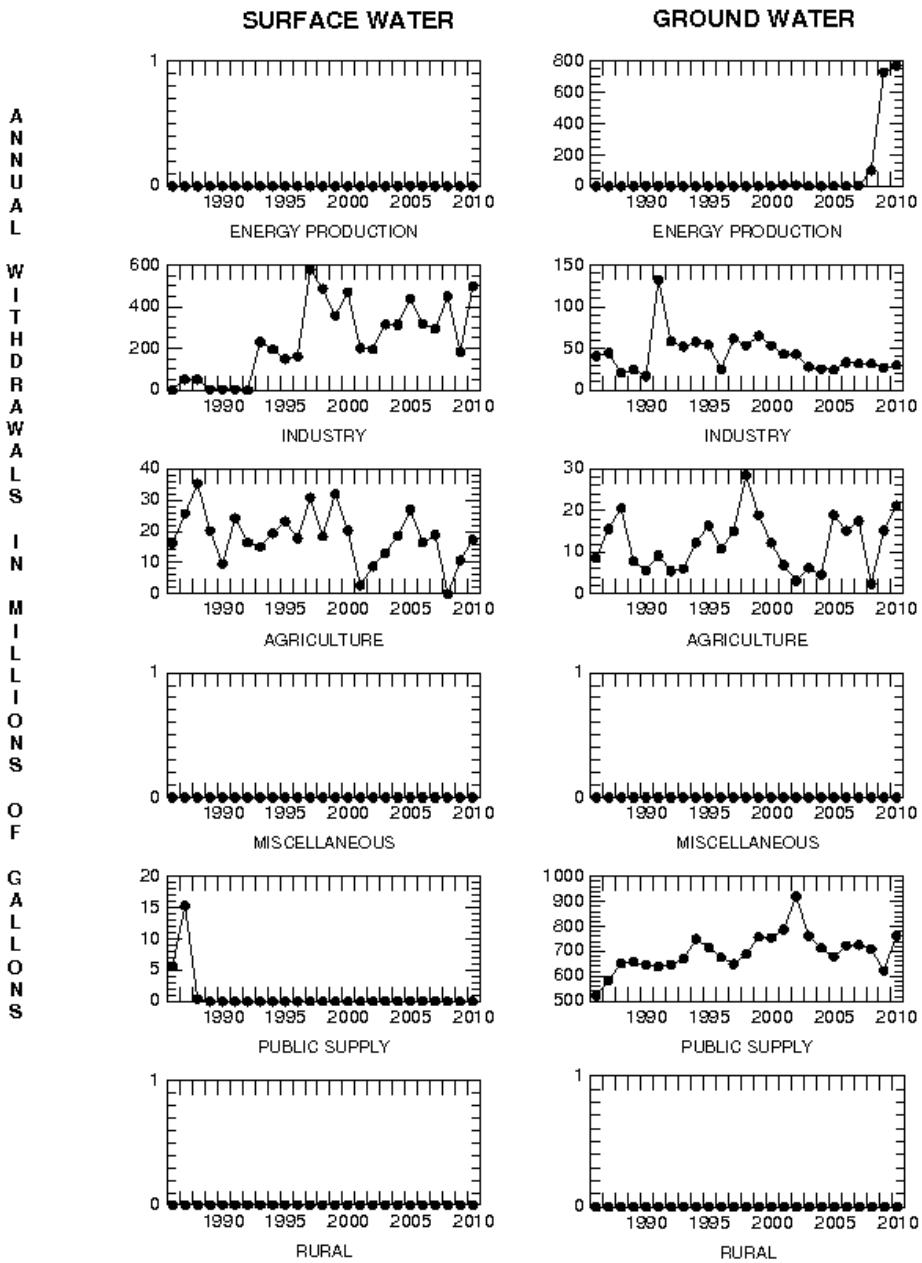
Washington County
Reported Withdrawals, 1986-2010



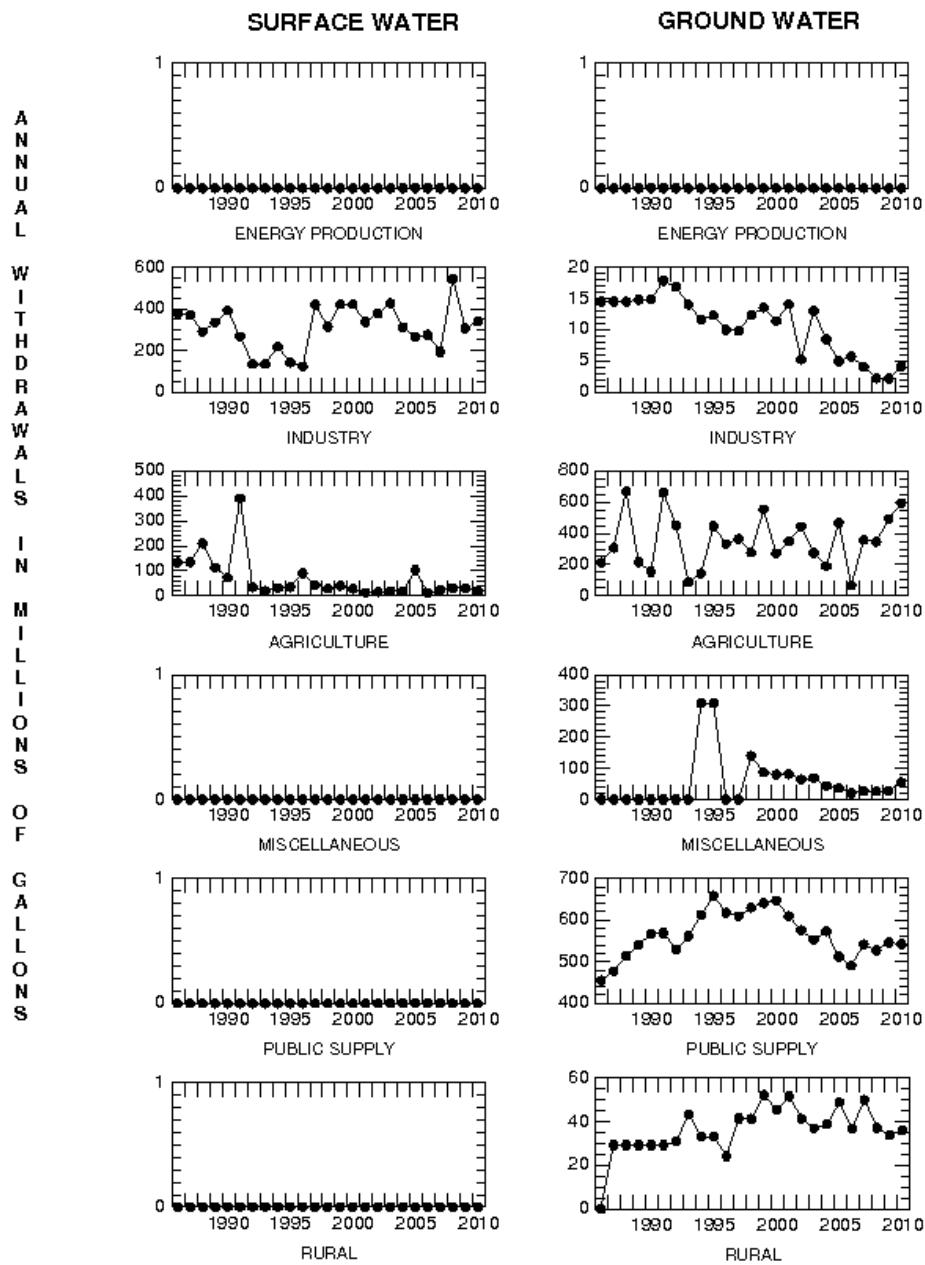
Wayne County
Reported Withdrawals, 1986-2010



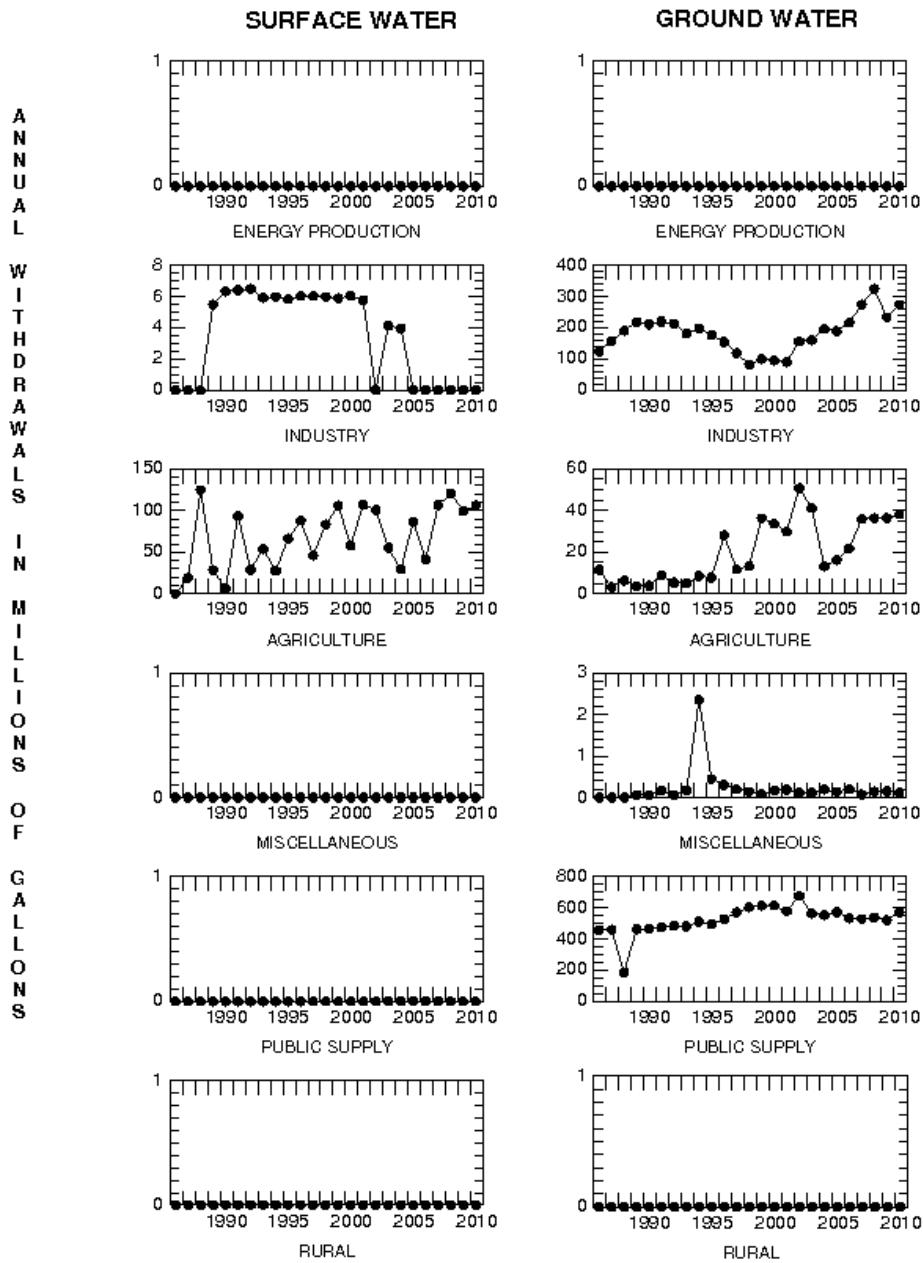
Wells County
Reported Withdrawals, 1986-2010



White County
Reported Withdrawals, 1986-2010



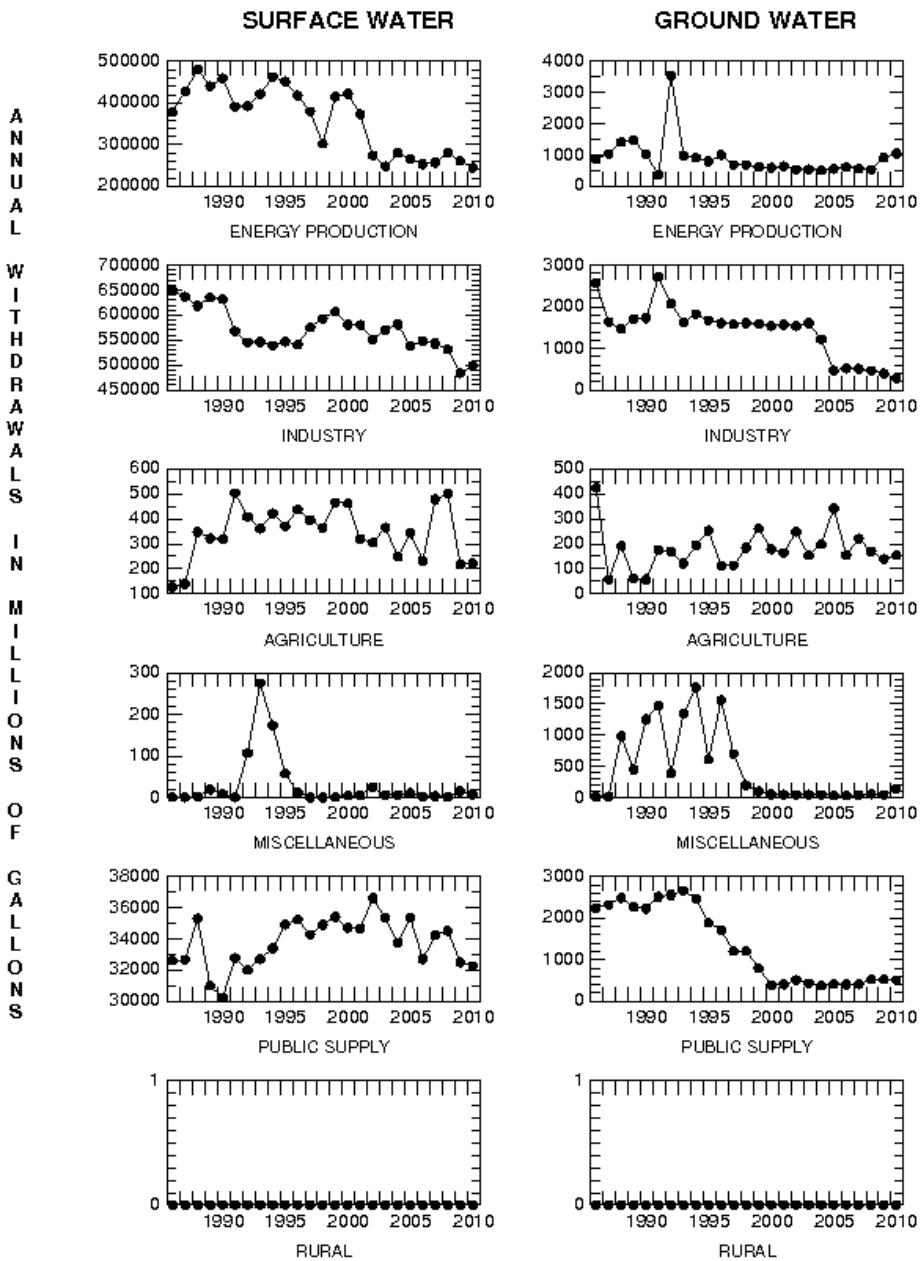
Whitley County
Reported Withdrawals, 1986-2010



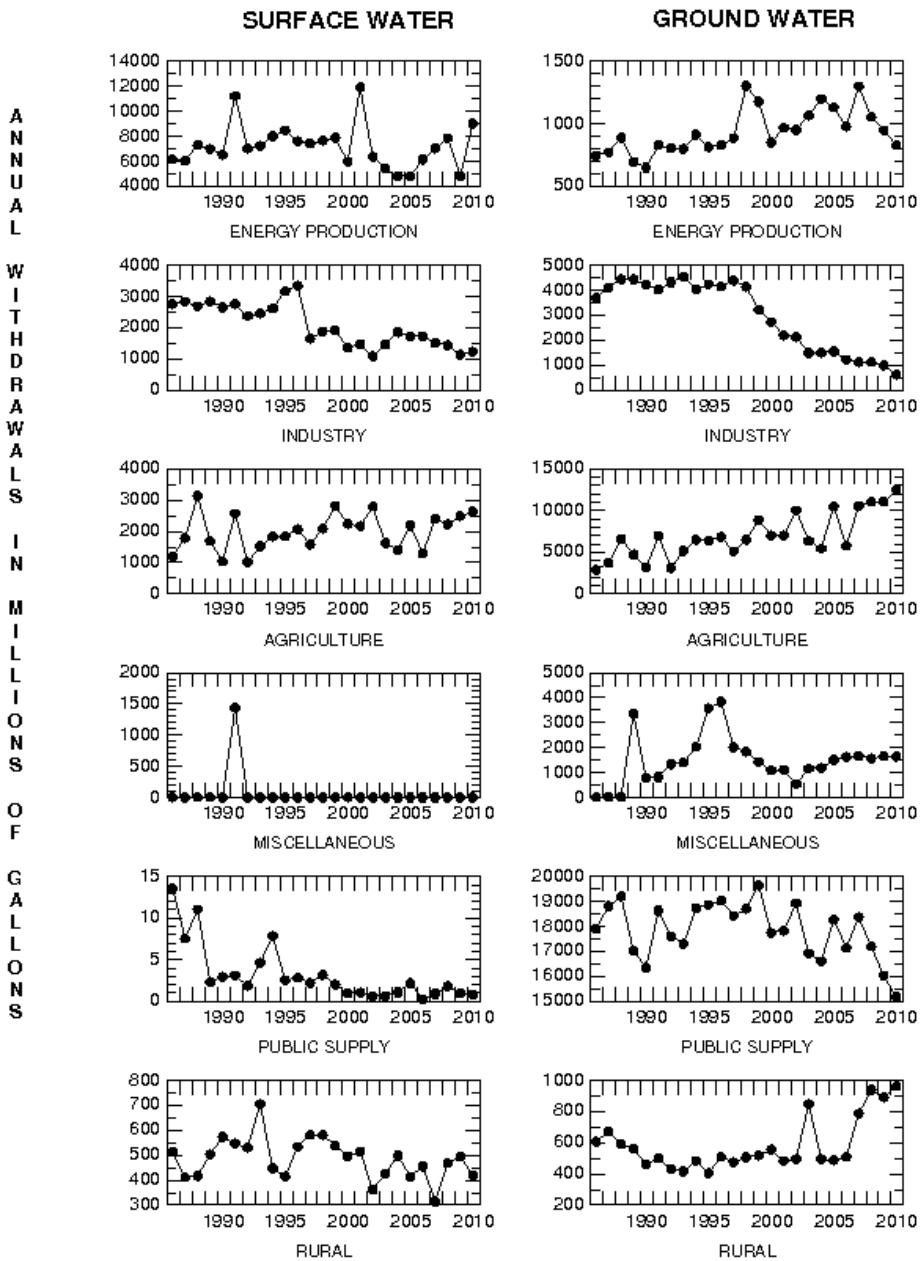
Water Management Basin

Data

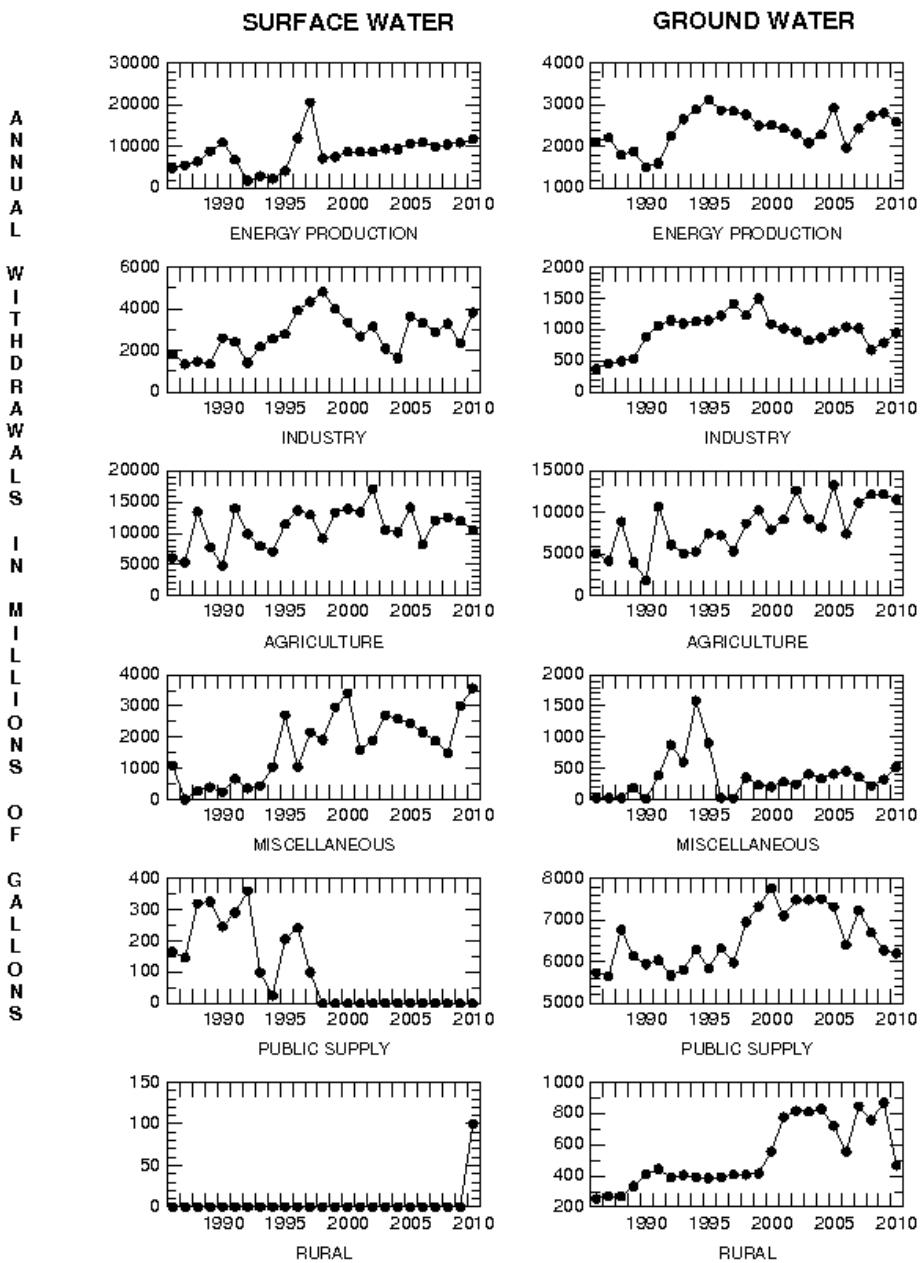
**Lake Michigan Basin
Reported Withdrawals, 1986-2010**



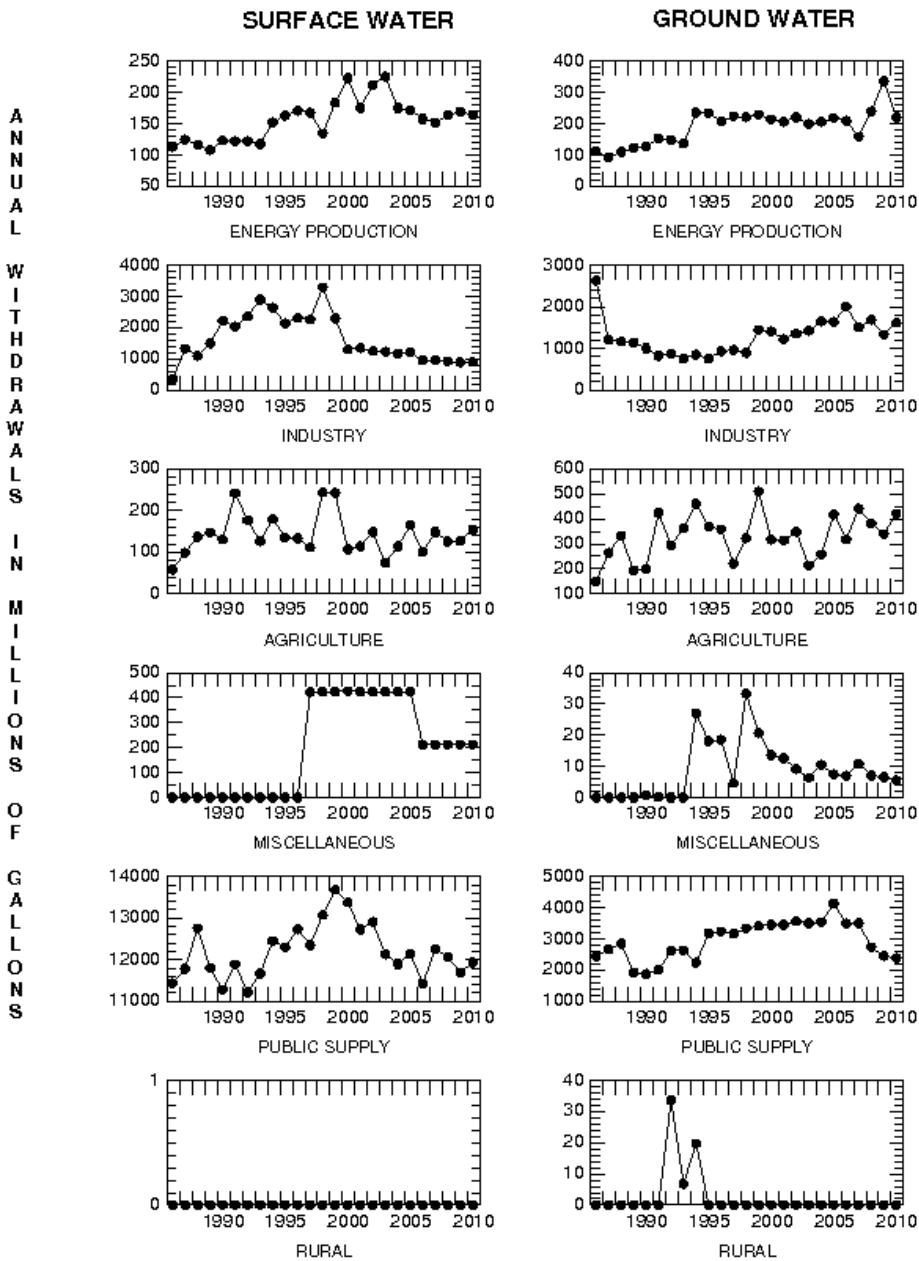
St. Joseph River Basin
Reported Withdrawals, 1986-2010



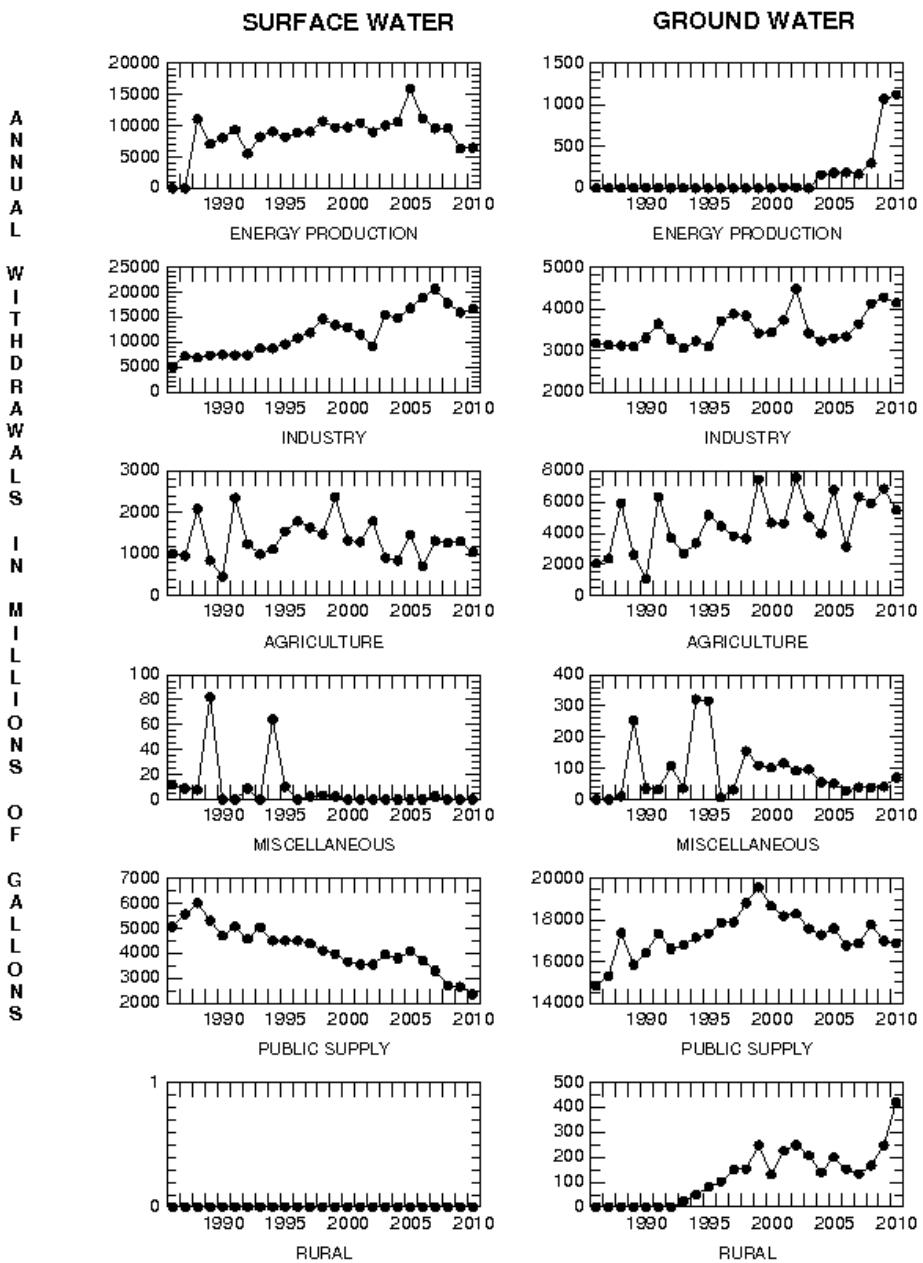
Kankakee River Basin Reported Withdrawals, 1986-2010



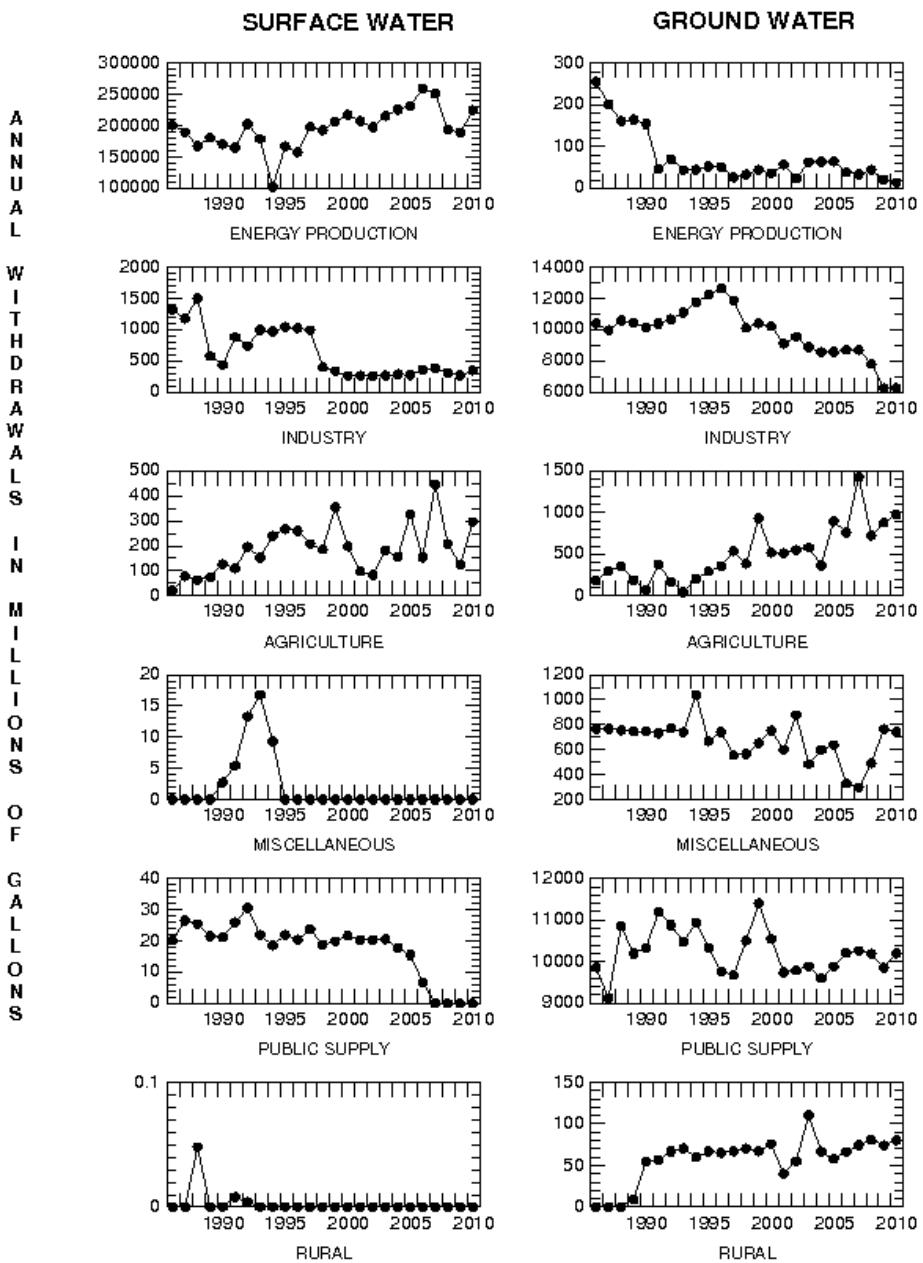
**Maumee River Basin
Reported Withdrawals, 1986-2010**



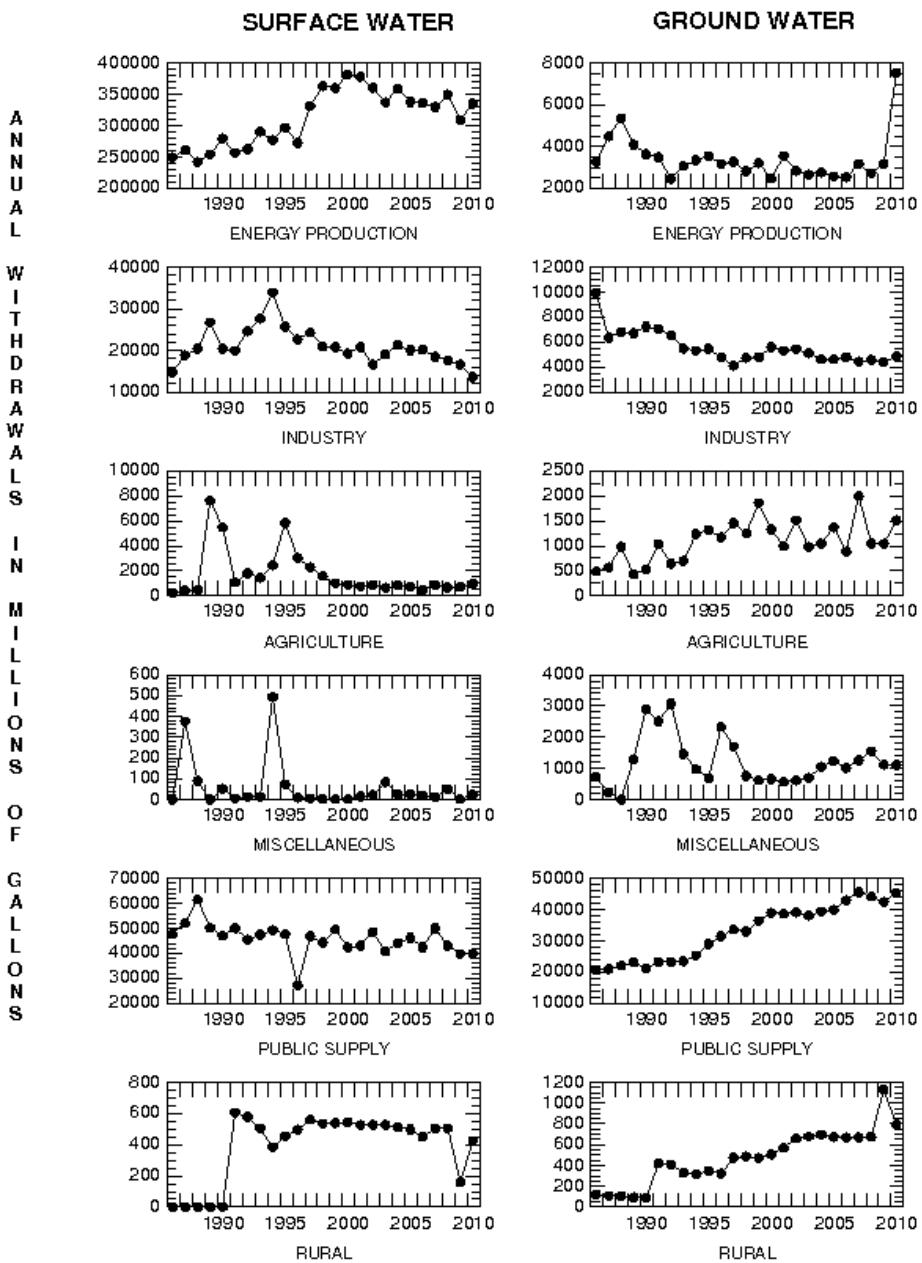
**Upper Wabash River Basin
Reported Withdrawals, 1986-2010**



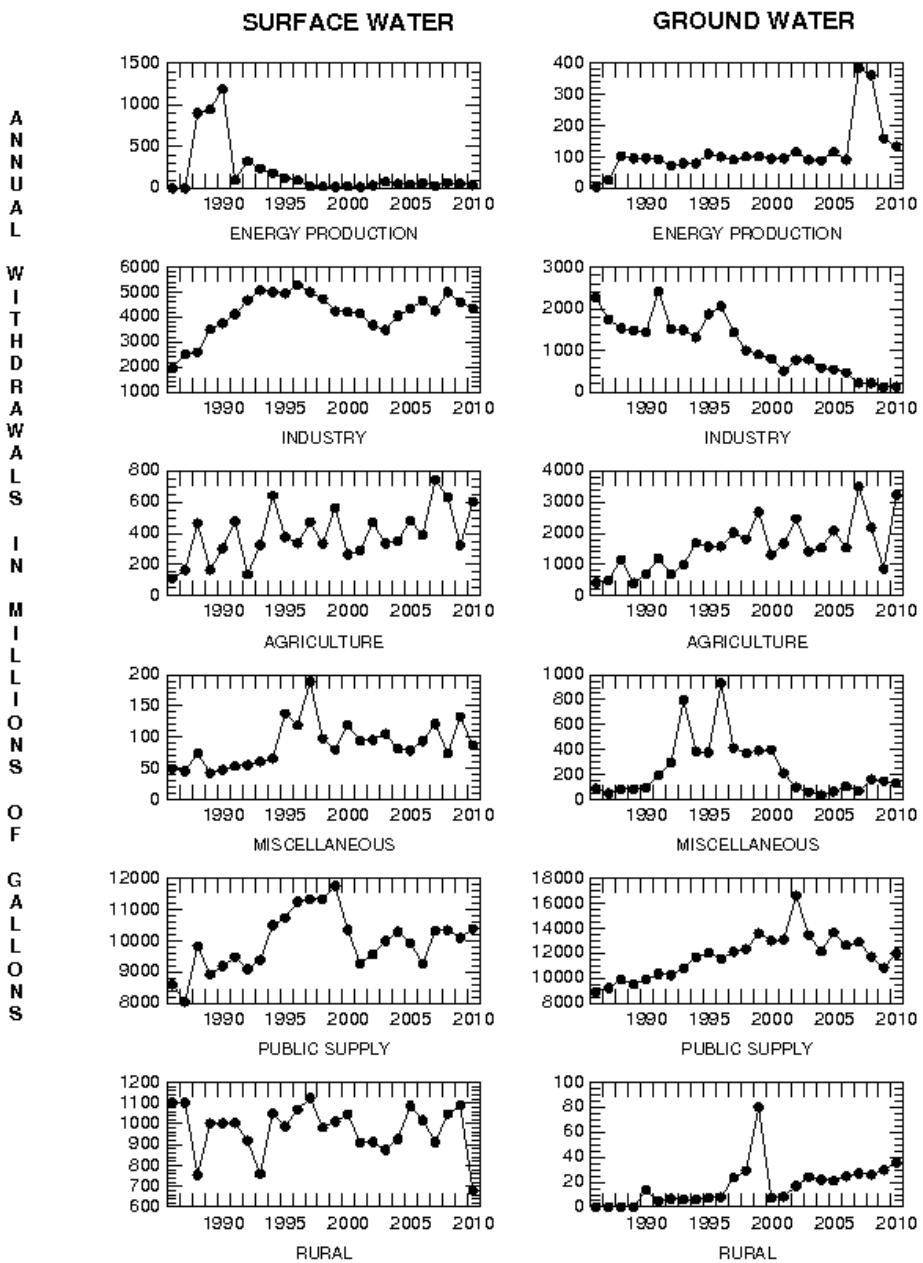
Middle Wabash River Basin
Reported Withdrawals, 1986-2010



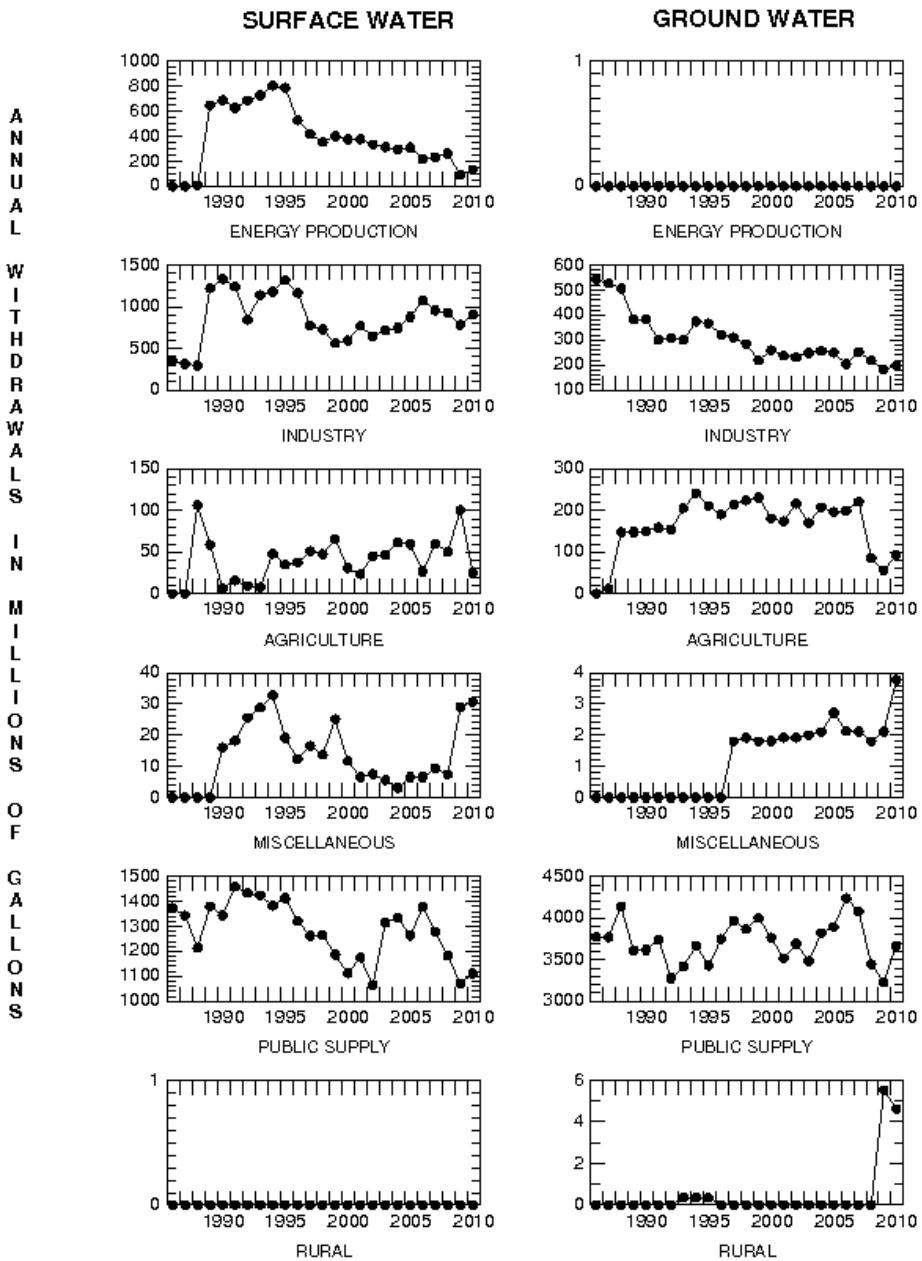
White and West Fork White River Basin Reported Withdrawals, 1986-2010



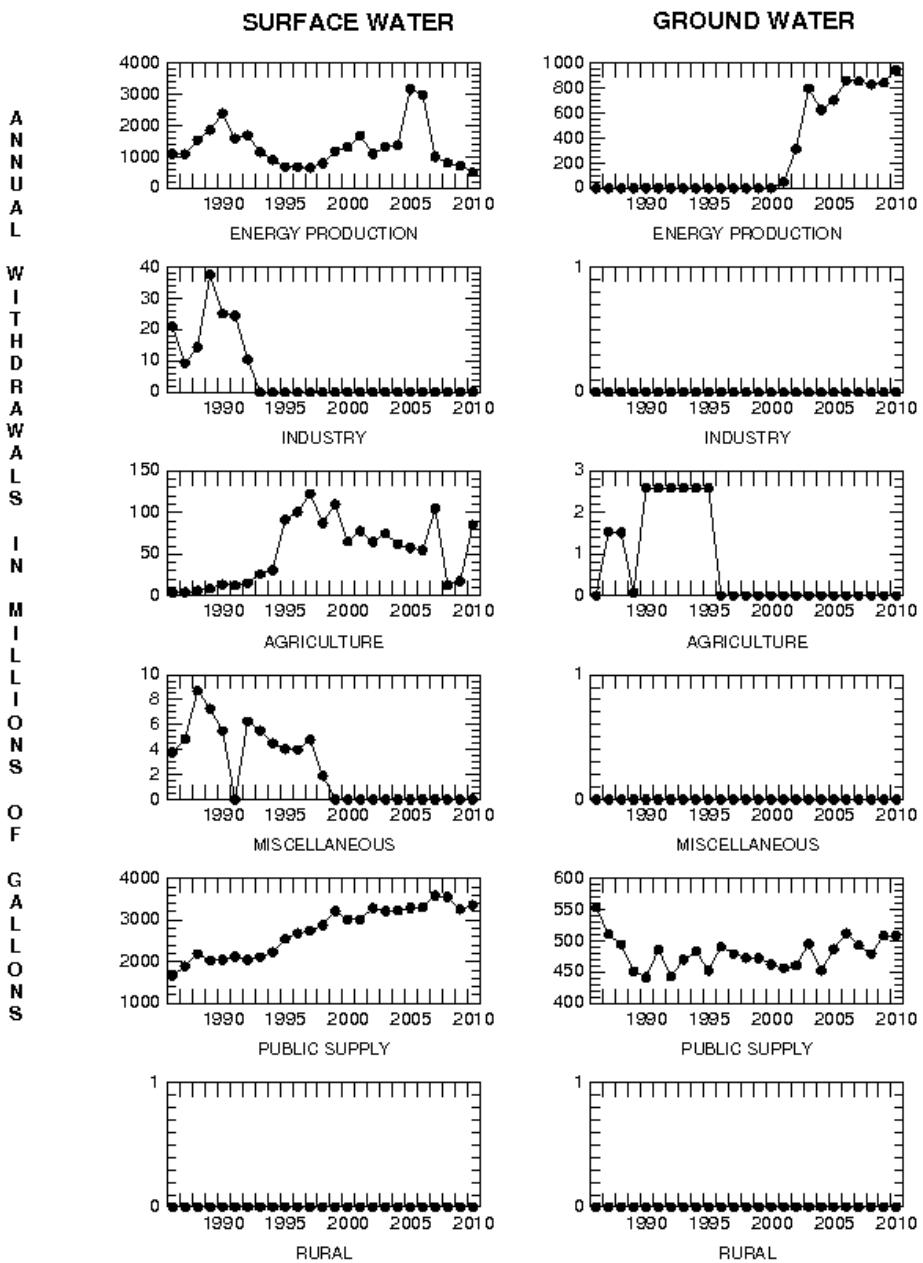
East Fork White River Basin Reported Withdrawals, 1986-2010



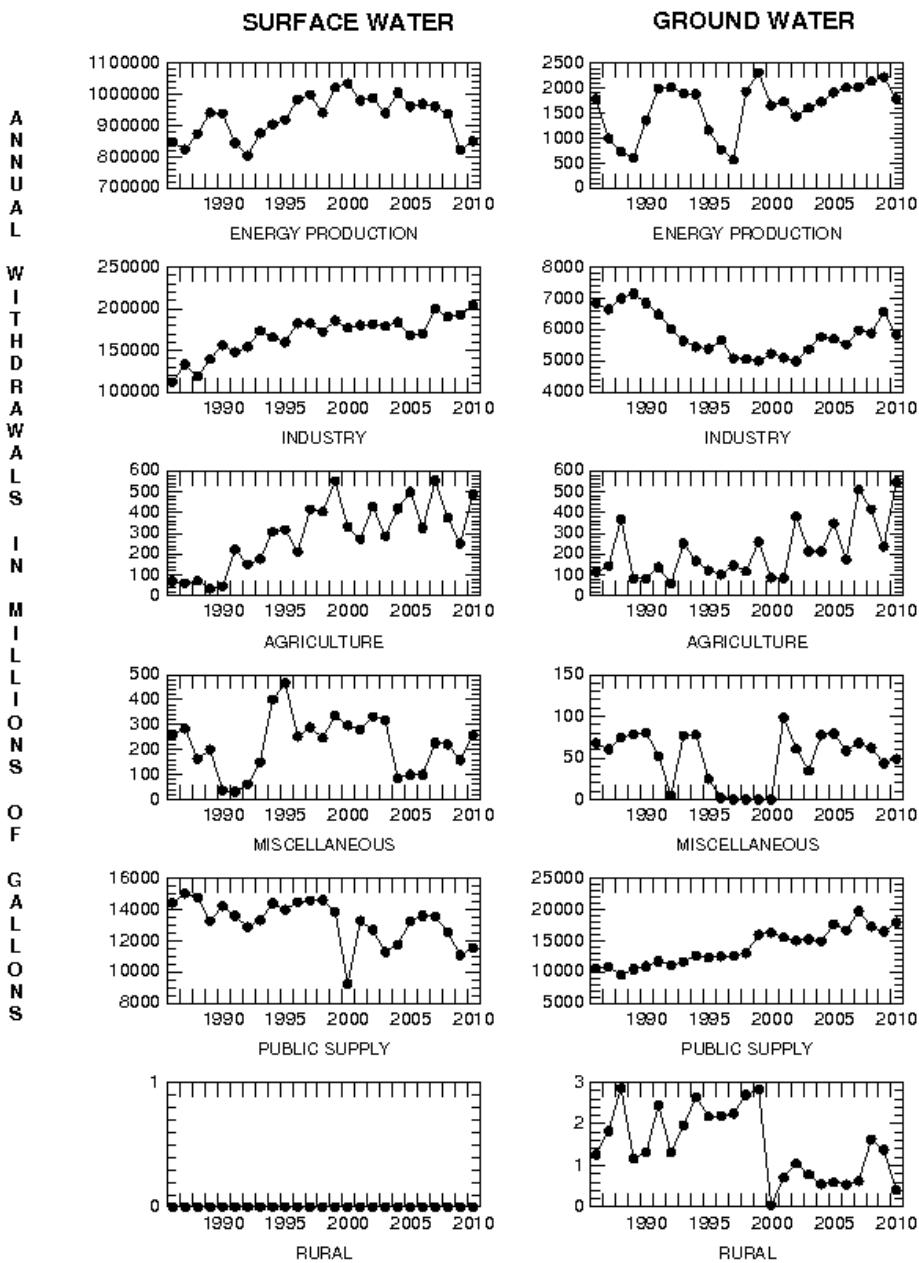
Whitewater River Basin Reported Withdrawals, 1986-2010



Patoka River Basin
Reported Withdrawals, 1986-2010



Ohio River Basin
Reported Withdrawals, 1986-2010



**Lower Wabash River Basin
Reported Withdrawals, 1986-2010**

