

APPENDICES

APPENDIX A

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EXHIBIT 1

APPENDIX A – EXHIBIT 1

373.042 **Minimum flows and levels.--**

(1) Within each section, or the water management district as a whole, the department or the governing board shall establish the following:

(a) Minimum flow for all surface watercourses in the area. The minimum flow for a given watercourse shall be the limit at which further withdrawals would be significantly harmful to the water resources or ecology of the area.

(b) Minimum water level. The minimum water level shall be the level of groundwater in an aquifer and the level of surface water at which further withdrawals would be significantly harmful to the water resources of the area.

The minimum flow and minimum water level shall be calculated by the department and the governing board using the best information available. When appropriate, minimum flows and levels may be calculated to reflect seasonal variations. The department and the governing board shall also consider, and at their discretion may provide for, the protection of nonconsumptive uses in the establishment of minimum flows and levels.

(2) By November 15, 1997, and annually thereafter, each water management district shall submit to the department for review and approval a priority list and schedule for the establishment of minimum flows and levels for surface watercourses, aquifers, and surface waters within the district. The priority list shall also identify those water bodies for which the district will voluntarily undertake independent scientific peer review. By January 1, 1998, and annually thereafter, each water management district shall publish its approved priority list and schedule in the Florida Administrative Weekly. The priority list shall be based upon the importance of the waters to the state or region and the existence of or potential for significant harm to the water resources or ecology of the state or region, and shall include those waters which are experiencing or may reasonably be expected to experience adverse impacts. By January 1, 2003, each water management district's priority list and schedule shall include all first magnitude springs, and all second magnitude springs within state or federally owned lands purchased for conservation purposes. The specific schedule for establishment of spring minimum flows and levels shall be commensurate with the existing or potential threat to spring flow from consumptive uses. Springs within the Suwannee River Water Management District, or second magnitude springs in other areas of the state, need not be included on the priority list if the water management district submits a report to the Department of Environmental Protection demonstrating that adverse impacts are not now occurring nor are reasonably expected to occur from consumptive uses during the next 20 years. The priority list and schedule shall not be subject to any proceeding pursuant to chapter 120. Except as provided in subsection (3), the development of a priority list and compliance with the schedule for the establishment of minimum flows and levels pursuant to this subsection shall satisfy the requirements of subsection (1).

(3) Minimum flows or levels for priority waters in the counties of Hillsborough, Pasco, and Pinellas shall be established by October 1, 1997. Where a minimum flow or level for the priority waters within those counties has not been established by the applicable deadline, the secretary of the department shall, if requested by the governing body of any local government within whose jurisdiction the affected waters are located, establish the minimum flow or level in accordance with the procedures established by this section. The department's reasonable costs in establishing a minimum flow or level shall, upon request of the secretary, be reimbursed by the district.

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EXHIBIT 2

APPENDIX A – EXHIBIT 2

(4)(a) Upon written request to the department or governing board by a substantially affected person, or by decision of the department or governing board, prior to the establishment of a minimum flow or level and prior to the filing of any petition for administrative hearing related to the minimum flow or level, all scientific or technical data, methodologies, and models, including all scientific and technical assumptions employed in each model, used to establish a minimum flow or level shall be subject to independent scientific peer review. Independent scientific peer review means review by a panel of independent, recognized experts in the fields of hydrology, hydrogeology, limnology, biology, and other scientific disciplines, to the extent relevant to the establishment of the minimum flow or level.

(b) If independent scientific peer review is requested, it shall be initiated at an appropriate point agreed upon by the department or governing board and the person or persons requesting the peer review. If no agreement is reached, the department or governing board shall determine the appropriate point at which to initiate peer review. The members of the peer review panel shall be selected within 60 days of the point of initiation by agreement of the department or governing board and the person or persons requesting the peer review. If the panel is not selected within the 60-day period, the time limitation may be waived upon the agreement of all parties. If no waiver occurs, the department or governing board may proceed to select the peer review panel. The cost of the peer review shall be borne equally by the district and each party requesting the peer review, to the extent economically feasible. The panel shall submit a final report to the governing board within 120 days after its selection unless the deadline is waived by agreement of all parties. Initiation of peer review pursuant to this paragraph shall toll any applicable deadline under chapter 120 or other law or district rule regarding permitting, rulemaking, or administrative hearings, until 60 days following submittal of the final report. Any such deadlines shall also be tolled for 60 days following withdrawal of the request or following agreement of the parties that peer review will no longer be pursued. The department or the governing board shall give significant weight to the final report of the peer review panel when establishing the minimum flow or level.

(c) If the final data, methodologies, and models, including all scientific and technical assumptions employed in each model upon which a minimum flow or level is based, have undergone peer review pursuant to this subsection, by request or by decision of the department or governing board, no further peer review shall be required with respect to that minimum flow or level.

(d) No minimum flow or level adopted by rule or formally noticed for adoption on or before May 2, 1997, shall be subject to the peer review provided for in this subsection.

(5) If a petition for administrative hearing is filed under chapter 120 challenging the establishment of a minimum flow or level, the report of an independent scientific peer review conducted under subsection (4) is admissible as evidence in the final hearing, and the administrative law judge must render the order within 120 days after the filing of the petition. The time limit for rendering the order shall not be extended except by agreement of all the parties. To the extent that the parties agree to the findings of the peer review, they may stipulate that those findings be incorporated as findings of fact in the final order.

History.--s. 6, part I, ch. 72-299; s. 2, ch. 73-190; s. 2, ch. 96-339; s. 5, ch. 97-160; s. 52, ch. 2002-1; s. 1, ch. 2002-15.

Note.--Former s. 373.036(7).

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EXHIBIT 3

**MINUTES OF THE
MADISON BLUE SPRING MINIMUM FLOW AND LEVEL (MFL)
ESTABLISHMENT
SUWANNEE RIVER WATER MANAGEMENT DISTRICT
INTERESTED PARTIES PUBLIC WORKSHOP**

A Public Workshop was held at Lee Elementary School in Lee, Florida, on October 28, 2003, 7:00 – 8:15 PM. The following individuals were present:

Governing Board Members Present

1. Sylvia Tatum
2. Linden Davidson
3. Georgia Jones
4. Oliver Lake
5. John Maultsby

Staff Members Present

Jerry Scarborough, Exec. Director
Kirk Webster, Deputy Executive Director
David Hornsby, Project Manager
John Good, Water Resource Engineer
Rob Mattson, Biologist
Glenn Horvath, Projects Coordinator
David Still, Deputy Executive Director
Jon Dinges, Director, Resource Management

Consultants for the Madison Blue Spring MFL Project

Mark D. Farrell, P.E., Water Resource Associates
Peter G. Hubbell, Water Resource Associates

The meeting commenced at approximately 7:05 P.M.

A list of all present who signed the attendance roster is filed in the permanent files of the District.

1. Welcome and Introductions

Jerry Scarborough, Executive Director, SRWMD welcomed the public and gave an introductory overview of the Madison Blue Spring MFL Project. All present introduced themselves and stated what organization they represented.

2. Public Workshop Process and Role of Interested Parties

Peter Hubbell of Water Resource Associates explained the Public Workshop Process and the role of Interested Parties.

3. Overview of Florida MFL Requirements and Process

Peter Hubbell of Water Resource Associates gave an overview of the Minimum Flow and Level (MFL) requirements and establishment process.

4. Madison Blue Spring Project Approach

Mark Farrell of Water Resource Associates explained the Approach to the Madison Blue Spring MFL Project.

5. Public Input/Comment

The Public expressed the following questions and concerns regarding the Madison Blue Spring MFL Project:

- A. When developing Water Shortage Orders is there a Pecking Order of users affected by water shortage restrictions?
- B. What is the complete list of target criteria outlined in the statute?
- C. Low and High rainfall periods. How do these fluctuations impact the analysis of MFLs and will the implementation of an MFL be linked to rainfall?
- D. Upstream analysis of flows on the Withlacoochee River is an important element in the analysis.
- E. How does recreational criteria tie back to ecological protection?
- F. Impacts to water quality (mercury) by industrial withdrawal on the Spring?
- G. What protections are in place during the "interim" period while MFLs are being completed?
- H. Is the study area comprehensive or large enough to protect natural systems?
- I. Survey of natural systems should be required to ensure study area is large enough.
- J. USGS Groundwater Model: we need a better explanation of the model and what it accomplishes.
- K. Are monitoring points connected to Spring system?
- L. Will monitoring be continued after the MFL is established?
- M. Madison Blue Spring Study area: How does this coincide with Lower Suwannee MFL's effort?
- N. How extensive is the monitoring system being implemented by the District.
- O. Is this effort too late to save the Spring?
- P. How does the MFL effort address water quality?
- Q. What about withdrawals in Georgia? How do we manage those to protect Madison Blue Spring?

Adjourn

Jerry Scarborough, Executive Director, SRWMD gave closing comments and adjourned the meeting.

The meeting adjourned at approximately 8:15 P.M.

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EXHIBIT 4

IV. SUMMARY

Directly applicable data sources are limited for establishing the minimum flow for Madison Blue Spring. Sources that will have direct application for further analysis include the following:

- **Description of Benthic Communities in Karst, Spring-Fed Streams of North Central Florida.** Journal of the Kansas Entomological Society. 15 August 1995.
- **FDEP SCI Sampling.** 1995-2000.
- **First Magnitude Springs of Florida.** Florida Geological Survey. Open File Report No. 85. 2002.
- **Groundwater Level Data in the SRWMD**
- **Magnitude and Frequency of Low Flows in the Suwannee River Water Management District, Florida.**
- **Precipitation Measurements.**
- **Quality of Ground Water in the SRWMD: Results of the First Sampling of the Background Water-Quality Network.** Florida Ground-Water Quality Monitoring Program. 12 August 1990.
- **Recharge Potential of the Floridan Aquifer in the SRWMD.** January 1994.
- **Spring and Stream Stage and Discharge Data.**
- **SRWMD Biological Sampling Program.**
- **SRWMD Water Quality Monitoring Program.**
- **Statistical Summaries of Ground-Water Level Data Collected in the Suwannee River Management District, 1948 to 1994.** USGS Open-File Report 96-352.
- **Statistical Summaries of Surface-Water Hydrologic Data Collected in the Suwannee River Water Management District, Florida, 1906-93.**
- **Withlacoochee River Study: Fish Populations Above and Below Jumping Gully Creek** FGFWFC Fish 1989.
- **Geology and Ground-Water Resources of Madison County Florida.** Florida Geological Survey. Bulletin No. 61 1990

Other data sources that may have a less direct influence on the MFL establishment process are the following:

- **Benthic Invertebrates and Allied Macrofauna in the Suwannee River and Estuary Ecosystem**, Florida. Florida Scientist. No. 4. 1994.
- **Ground-Cover Vegetation in Wetland Forests of the Lower Suwannee River Floodplain, Florida, and Potential Impacts of Flow Reductions.**
- **Location and Description of Transects for Ecological Studies in Floodplain Forests of the Lower Suwannee River, Florida.**
- **Monthly Variability and Possible Sources of Nitrate in Ground Water Beneath Mixed Agricultural Land Use, Suwannee and Lafayette Counties, Florida**
- **Potentiometric Surface of the Upper Floridan Aquifer in the Suwannee River Water Management District, Florida, May and June 1995.** USGS Open-File Report 96-617.
- **Springs of the Suwannee River Basin in Florida.** SRWMD. October 1998.
- **USGS Water Quality Monitoring**

The SRWMD is in the process of collecting additional information that will supplement existing information. Specific data collection efforts to be completed by the SRWMD include the following:

- 1) Cross section geometry of river shoals within the Withlacoochee River downstream of the confluence with Madison Blue Spring
- 2) Characterization of aquifer discharges into the Withlacoochee River in the vicinity of Madison Blue Spring
- 3) Ecological data associated with river shoals

As this information becomes available, it will be integrated into the data analyses component of the project.

V - LIST OF DATA SOURCES

- 1) **A Strategy for the Characterization of First Magnitude Springs.** SRWMD. December 2001.
- 2) **Benthic Invertebrates and Allied Macrofauna in the Suwannee River and Estuary Ecosystem,** Florida. Florida Scientist. No. 4. 1994.
- 3) **Bibliography of Resource Studies Suwannee River Drainage System.** SRWMD. 17 May 2003.
- 4) **Description of Benthic Communities in Karst, Spring-Fed Streams of North Central Florida.** Journal of the Kansas Entomological Society. 15 August 1995.
- 5) **FDEP SCI Sampling.** 1995-2000.
- 6) **First Magnitude Springs of Florida.** Florida Geological Survey. Open File Report No. 85. 2002.
- 7) **Groundwater Level Data in the SRWMD**
- 8) **Ground Water Monitoring Plan.** SRWMD. 6 December 2000.
- 9) **Ground-Cover Vegetation in Wetland Forests of the Lower Suwannee River Floodplain, Florida, and Potential Impacts of Flow Reductions.**
http://fl.water.usgs.gov/Abstracts/wri00_4219_katz.html.
- 10) **Hydrology, Vegetation, and Soils of Riverine and Tidal Floodplain Forests of the Lower Suwannee River, Florida, and Potential Impacts of Flow Reductions.** USGS Professional Paper 1656A.
- 11) **Location and Description of Transects for Ecological Studies in Floodplain Forests of the Lower Suwannee River, Florida.**
http://www.fl.water.usgs.gov/Abstracts/wri02_4009_sepulveda.html.
- 12) **Magnitude and Frequency of Floods in the Suwannee River Water Management District, Florida.** http://www.fl.water.usgs.gov/Abstracts/wri96_4176_giese.html.
- 13) **Magnitude and Frequency of Low Flows in the Suwannee River Water Management District, Florida.**
http://fl.water.usgs.gov/Abstracts/wri96_4308_giese.html.
- 14) **Monitoring Networks Atlas Fiscal Year 2000.** SRWMD. October 1999.
- 15) **Monthly Variability and Possible Sources of Nitrate in Ground Water Beneath Mixed Agricultural Land Use, Suwannee and Lafayette Counties, Florida**
http://fl.water.usgs.gov/Abstracts/wri00_4219_katz.html

- 16) **Potentiometric Surface of the Upper Floridan Aquifer in the Suwannee River Water Management District, Florida, May and June 1995.** USGS Open-File Report 96-617.
- 17) **Precipitation Measurements.**
- 18) **Quality of Ground Water in the SRWMD: Results of the First Sampling of the Background Water-Quality Network.** Florida Ground-Water Quality Monitoring Program. 12 August 1990.
- 19) **Recharge Potential of the Floridan Aquifer in the SRWMD.** January 1994.
- 20) **Recharge Rates to the Upper Floridan Aquifer in the Suwannee Water Management District, Florida.** USGS Water-Resources Investigations Report 97-4283.
- 21) **Simulation of Ground-Water Flow In the Intermediate and Floridan Aquifer Systems in Peninsular Florida**
http://fl.water.usgs.gov/Abstracts/wri02_4009_sepulveda.html.
- 22) **Special Flood Hazard Information Suwannee River Floods FL and GA.** USACOE. December 1974.
- 23) **Spring and Stream Stage and Discharge Data.**
- 24) **Springs of the Suwannee River Basin in Florida.** SRWMD. October 1998.
- 25) **SRWMD Biological Sampling Program.**
- 26) **SRWMD Water Quality Monitoring Program.**
- 27) **Statistical Summaries of Ground-Water Level Data Collected in the Suwannee River Management District, 1948 to 1994.** USGS Open-File Report 96-352.
- 28) **Statistical Summaries of Surface-Water Hydrologic Data Collected in the Suwannee River Water Management District, Florida, 1906-93.**
http://fl.water.usgs.gov/PDF_files/ofr94_709_franklin.pdf.
- 29) **Timescales for Nitrate Contamination of Spring Waters, Northern Florida, USA.** Reprinted from "Chemical Geology including Isotope Geoscience."
- 30) **USGS Water Quality Monitoring.**
- 31) **WARN Water Monitoring Atlas.** SRWMD FY 2003.
- 32) **Water Use Permits issued in SRWMD (current)**
- 33) **Withlacoochee River Study: Fish Populations Above and Below Jumping Gully Creek** FGFWFC Fish 1989.

VI. SUMMARY OF DATA SOURCES

DATA SOURCE	PERIOD OF DATA	DESCRIPTION OF DATA	RELEVANCE TO SETTING MINIMUM FLOWS FOR MADISON BLUE SPRING	DATA LIMITATIONS
<p>1</p> <p>A Strategy for the Characterization of First Magnitude Springs. SRWMD. December 2001.</p>	<p>Not applicable.</p>	<p>Report constitutes the expanded outline of the monitoring and research plan to deal with characterization of five spring basins in SRWMD, including MBS.</p>	<p>Limited value as background information.</p>	<p>None</p>
<p>2</p> <p>Benthic Invertebrates and Allied Macrofauna in the Suwannee River and Estuary Ecosystem, Florida. Florida Scientist. No. 4. 1994.</p>	<p>Period of Data - 1979-1993.</p>	<p>Composite survey of benthic invertebrates and allied macrofauna.</p>	<p>General reference for species found in riverine systems in North Florida.</p>	<p>None</p>
<p>3</p> <p>Bibliography of Resource Studies Suwannee River Drainage System. SRWMD. 17 May 2003.</p>	<p>Not applicable</p>	<p>Identifies potential sources of data.</p>	<p>Reference for data search.</p>	<p>None</p>

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4	Description of Benthic Communities in Karst, Spring-Fed Streams of North Central Florida. Journal of the Kansas Entomological Society. 15 August 1995.	Not applicable.	Characterization of benthic communities in spring fed systems similar to Madison Blue Spring.	Excellent reference source for identifying benthic communities in the Withlacoochee River.	None
5	FDEP SCI Sampling 1995-2000.	Period of Data - 1995 - 2000.	Relationships between flows and SCI data may prove useful in setting MFL.	Several reference sites on the Withlacoochee River below Jumping Gulley Creek SCI data collected.	Data are very limited temporally and spatially.
6	First Magnitude Springs of Florida. Florida Geological Survey. Open File Report No. 85. 2002.	Period of Data - Published 2002.	Contains general information on MBS, discharge data, and water quality and bacteriological analysis.	Excellent general information and limited water quality data.	Very little actual data provided.

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DATA SOURCE	PERIOD OF DATA	DESCRIPTION OF DATA	RELEVANCE TO SETTING MINIMUM FLOWS FOR MADISON BLUE SPRING	DATA LIMITATIONS
7	<p>Groundwater Level Data</p> <p>Period of Data - Variable - going back as far as 1976, and as recent as 2003. Detailed range of data for each well are presented in Table 1.</p>	<p>Wells 1-6 were monitored on a daily to monthly basis, with 100's to 1000's of measurements per well. Wells 7-9 and 11-15 were generally monitored on a monthly basis, with ~150-250 measurements per well.</p> <p>Wells 16-27 were monitored on a monthly to yearly basis, with approximately 30 measurements per well.</p> <p>The remaining wells were monitored for only a short period of time or only several times.</p> <p>The water level data in wells 1-27 are presented graphically in Appendix 1.</p>	<p>Developing correlations in order to determine process response relationships, especially with respect to the Spring.</p> <p>Developing probability graphs in order to establish the normal range of spring discharge and the probabilities of minimum flows.</p> <p>Calibration of groundwater flow model.</p>	<p>There is very little available groundwater head data in the immediate area of Madison Blue Spring.</p>
8	<p>Ground Water Monitoring Plan. SRWMD. 6 December 2000.</p>	<p>Proposed monitoring plan for entire district includes a groundwater level network, a network based on random sampling of wells for water quality, and a network for detection of changes in water quality through time.</p>	<p>Report is a proposed monitoring plan, not really a source of data for the MBS MFL project.</p>	<p>No data</p>

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9	<p>Ground-Cover Vegetation in Wetland Forests of the Lower Suwannee River Floodplain, Florida, and Potential Impacts of Flow Reductions. http://fl.water.usgs.gov/Abstracts/wri00_4219_katz.html.</p>	Not applicable	Vegetation characterization of Lower Suwannee River Floodplain.	<p>Limited relevance since Suwannee River vegetation cannot characterize the Withlacoochee River or Madison Blue Spring by reference.</p>	None
10	<p>Hydrology, Vegetation, and Soils of Riverine and Tidal Floodplain Forests of the Lower Suwannee River, Florida, and Potential Impacts of Flow Reductions. USGS Professional Paper 1656A.</p>	Not applicable.	Provides information for Suwannee River south of confluence with Santa Fe River.	<p>Only discusses Suwannee River south of confluence with Santa Fe River, therefore not applicable to Withlacoochee or Madison Blue Spring.</p>	None

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<p>11</p> <p>Location and Description of Transects for Ecological Studies in Floodplain Forests of the Lower Suwannee River, Florida. http://www.fl.water.usgs.gov/Abstracts/wri02_4009_sepulveda.html.</p>	<p>Not applicable.</p>	<p>Vegetation characterization of Lower Suwannee River Floodplain.</p>	<p>Limited relevance since Suwannee River vegetation cannot characterize the Withlacoochee River or Madison Blue Spring by reference.</p>	<p>None</p>
<p>12</p> <p>Magnitude and Frequency of Floods in the Suwannee River Water Management District, Florida. http://www.fl.water.usgs.gov/Abstracts/wri96_4176_giese.html</p>	<p>Period of Data - 10-69 years by station thru 1996</p>	<p>Source of data on flooding for the Suwannee River.</p>	<p>Limited actual data, good interpolations. Not applicable to Madison Blue Spring.</p>	<p>Limited actual data.</p>

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	DATA SOURCE	PERIOD OF DATA	DESCRIPTION OF DATA	RELEVANCE TO SETTING MINIMUM FLOWS FOR MADISON BLUE SPRING	DATA LIMITATIONS
13	<p>Magnitude and Frequency of Low Flows in the Suwannee River Water Management District, Florida. http://fl.water.usgs.gov/Abstracts/wri96_4308_giese.html.</p>	<p>Period of Data - April 1932 - March 1994.</p>	<p>Contains low flow frequency statistics for the gauge on the Withlacoochee River at Pinetta and the Suwannee River at Ellaville, as well as select low flow measurements for MBS and the Withlacoochee River near Madison. Magnitude and frequency of annual and monthly low flows on the Withlacoochee River at Pinetta.</p>	<p>Data can be used to determine frequency of low flows at recurring intervals.</p>	<p>Little data for MBS or Withlacoochee near Madison. Period of recall ended in 1994.</p>
14	<p>Monitoring Networks Atlas Fiscal Year 2000. SRWMD. October 1999.</p>	<p>Not applicable</p>	<p>Describes the types and locations of monitoring conducted by the SRWMD. Refers to the databases they maintain which have provided the data being used to determine MBS MFL's.</p>	<p>Provides identification of relevant data sources</p>	<p>None</p>

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15	<p>Monthly Variability and Possible Sources of Nitrate in Ground Water Beneath Mixed Agricultural Land Use, Suwannee and Lafayette Counties, Florida http://fl.water.usgs.gov/Abstracts/wri00_4219_katz.html</p>	<p>Period of Data - July 1998-June 1999.</p>	<p>Documents nitrate concentrations in groundwater system below agricultural land use in Suwannee and Lafayette Counties, which are typically karst.</p>	<p>General applicability to potential for ground water quality impacts to MBS from agricultural activities.</p>	<p>None</p>
16	<p>Potentiometric Surface of the Upper Floridan Aquifer in the Suwannee River Water Management District, Florida, May and June 1995. USGS Open-File Report 96-617.</p>	<p>Period of Data - May and June 1995.</p>	<p>Potentiometric surface contours for Upper Floridan Aquifer in the SRWMD.</p>	<p>Useful for large-scale flow directions, not very useful for characterizing extent of MBS springshed.</p>	<p>Only a few wells in the vicinity of MBS. Some contouring may be questionable.</p>

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DATA SOURCE	PERIOD OF DATA	DESCRIPTION OF DATA	RELEVANCE TO SETTING MINIMUM FLOWS FOR MADISON BLUE SPRING	DATA LIMITATIONS
<p>Precipitation Measurements</p>	<p>Period of Data - Variable, going back as far as 1931, and as recent as 2003. Detailed range of data for each station are presented in Table 3.</p>	<p>Monthly precipitation measurements are available at seven stations in the general vicinity of Madison Blue Springs. Daily precipitation measurements are available at three stations in the general vicinity of Madison Blue Spring. The precipitation data is presented graphically in Appendix 3.</p>	<p>Determining short and long term climatic trends. Developing correlations in order to determine process response relationships, especially with respect to the Spring. Developing probability graphs in order to establish the normal range of spring discharge and the probabilities of minimum flows.</p>	<p>Much of the available precipitation data is limited in that data were only recorded on a monthly basis. Daily data for Madison, FL have been obtained through the National Weather Service. Some of the daily precipitation data only encompasses a short, recent period of time.</p>

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18	Quality of Ground Water in the SRWMD: Results of the First Sampling of the Background Water-Quality Network. Florida Ground-Water Quality Monitoring Program. 12 August 1990.	Not applicable.	Provides background groundwater quality data for the SRWMD, including the Floridan Aquifer in the Madison Blue Spring study area.	A good distribution of wells exists for the Madison Blue Spring study area.	Ion balance problems with data apparently due to lack of filtration and poor well development in some cases. Lack of filtration of water samples. Poor well development in some cases.
19	Recharge Potential of the Floridan Aquifer in the SRWMD. January 1994.	Not applicable.	Discusses factors which affect recharge rates in SRWMD and presents a map of recharge potential based on these factors. Four significant factors were used in analysis: soils, hydrologic basins, depth to groundwater, and confining bed characteristics.	General relevance for estimating recharge for MBS springshed.	Sufficient data was not available for all factors which influence recharge.

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<p>Recharge Rates to the Upper Floridan Aquifer in the Suwannee Water Management District, Florida. USGS Water-Resources Investigations Report 97-4283.</p> <p style="text-align: center;">20</p>	<p>Period of Data - 1928-1996 (varied by site).</p>	<p>Utilizes four different methods to estimate recharge rates for confined, poorly confined, and unconfined areas in the SRWMD. Calculated recharge rates based on rainfall and runoff records. Upper Floridan aquifer is unconfined to poorly confined in MBS study area. Estimates of recharge ranged from 20 to 80 cm/year for unconfined areas and from 10 to 60 cm/year for poorly confined areas.</p>	<p>No value in setting MFL, but will be useful in calibrating MODFLOW model.</p>	<p>Period of record for some sites.</p>
<p>Simulation of Ground Water Flow In the Intermediate and Floridan Aquifer Systems in Peninsular Florida http://fl.water.usgs.gov/Abstracts/wri02_4009_sepulveda.html.</p> <p style="text-align: center;">21</p>	<p>Not applicable</p>	<p>Preliminary MODFLOW model to simulate impacts of groundwater withdrawals on ground water levels in Peninsular Florida.</p>	<p>Not relevant to establishment of MFL for MBS.</p>	<p>None</p>

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22	Special Flood Hazard Information Suwannee River Floods FL and GA. USACOE. December 1974.	Not applicable.	High storage data for Suwannee River.	No particular relevance since flow data is only associated with the Suwannee River.	No information on Withlacoochee River.

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DATA SOURCE	PERIOD OF DATA	DESCRIPTION OF DATA	RELEVANCE TO SETTING MINIMUM FLOWS FOR MADISON BLUE SPRING	DATA LIMITATIONS
Spring and Stream Stage and Discharge Data	<p>Period of Data - Variable, going back as far as 1927, and as recent as 2003. Detailed range of data for each gauging station are presented in Table 2.</p>	<p>A continuous monitoring system was established for Madison Blue Spring in 2002. During this time a fairly complete set of stage data has been obtained, though collection of discharge data has been spotty at best. A few additional discharge readings have been obtained manually before 2002. Continuous stage and discharge measurements going back over 70 years are available for the gauging station on the Withlacoochee River at Pinetta and on the Suwannee River at Ellaville. Ten stage and discharge measurements were manually recorded for the Withlacoochee River near Madison over the previous 40+ years. The gauging station on the Withlacoochee River near Lee has been continuously monitored since 2000. The stage and discharge data for these gauging stations are presented graphically in Appendix 2.</p>	<p>Developing correlations in order to determine process response relationships, especially with respect to the Spring. Developing probability graphs in order to establish the normal range of spring discharge and the probabilities of minimum flows.</p>	<p>Very little data available for both the gauge in Madison Blue Spring and the gauge in the Withlacoochee River near Madison. There are apparent inconsistencies in stage and discharge from Madison Blue Spring. There may be a datum problem with the gauge at the spring, as well.</p>

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DATA SOURCE	PERIOD OF DATA	DESCRIPTION OF DATA	RELEVANCE TO SETTING MINIMUM FLOWS FOR MADISON BLUE SPRING	DATA LIMITATIONS
Springs of the Suwannee River Basin in Florida. SRWMD. October 1998.	Not applicable	Gives general information of MBS and the rest of the springs contributing discharge to the Withlacoochee River between MBS and the confluence with the Suwannee. Contains cavemap of MBS cave system.	Provide limited data to establishment of MFL. Cave map provides some value and report provides background information.	
SRWMD Biological Sampling Program.	Period of Data - 1989-present. Withlacoochee River above Suwannee River. Withlacoochee River - CR 145.	Quarterly sampling - Macroinvertebrates - dip nets, artificial substrates, periphyton, algal biomass Bacteriological- monthly (Bimonthly at the Pinetta station).	Relationships between flows and biological data will prove useful in setting MFL.	Data are somewhat limited temporally and especially spatially.

VI. SUMMARY OF DATA SOURCES

DATA SOURCE	PERIOD OF DATA	DESCRIPTION OF DATA	RELEVANCE TO SETTING MINIMUM FLOWS FOR MADISON BLUE SPRING	DATA LIMITATIONS
<p>SRWMD Water Quality Monitoring Program.</p>	<p>Period of Data - Madison Blue Spring 1998-present Withlacoochee River CR 145 - 1989-present Withlacoochee River near Pinetta - 1989-present Withlacoochee River above Suwannee River.</p>	<p>Madison Blue Spring - water quality monthly since 2002. Withlacoochee River CR 145 - water quality monthly since 1990. Withlacoochee River - near Pinetta water quality monthly since 1990. Withlacoochee River - above Suwannee River Physical, nutrients, chlorophyll.</p>	<p>Relationships between flows and water quality may prove useful in setting MFL.</p>	<p>Data are somewhat limited temporally and especially spatially.</p>

VI. SUMMARY OF DATA SOURCES

	DATA SOURCE	PERIOD OF DATA	DESCRIPTION OF DATA	RELEVANCE TO SETTING MINIMUM FLOWS FOR MADISON BLUE SPRING	DATA LIMITATIONS
27	<p>Statistical Summaries of Ground-Water Level Data Collected in the Suwannee River Management District, 1948 to 1994. USGS Open-File Report 96-352.</p>	<p>Period of Data - 1948 - 1994</p>	<p>Contains statistical descriptions of water levels (e.g. monthly minimum, mean, maximum, and quartiles) in some wells in Madison and Hamilton county which are in the vicinity of MBS.</p>	<p>May prove to be of assistance in establishing hydrologic regime for spring.</p>	<p>None</p>
28	<p>Statistical Summaries of Surface-Water Hydrologic Data Collected in the Suwannee River Water Management District, Florida, 1906-93. http://fl.water.usgs.g</p>	<p>Period of Data - 1906 - 1993.</p>	<p>Contains statistical summaries for the water gauges in the Withlacoochee R. at Pinetta and the Suwannee River at Ellaville.</p>	<p>Very relevant for establishing hydrologic regime for Withlacoochee River.</p>	<p>None</p>

VI. SUMMARY OF DATA SOURCES

	DATA SOURCE	PERIOD OF DATA	DESCRIPTION OF DATA	RELEVANCE TO SETTING MINIMUM FLOWS FOR MADISON BLUE SPRING	DATA LIMITATIONS
29	<p>Timescales for Nitrate Contamination of Spring Waters, Northern Florida, USA. Reprinted from "Chemical Geology including Isotope Geoscience."</p>	<p>Period of Data - 1997 - 1999.</p>	<p>Study of Nitrate contamination to Spring Waters.</p>	<p>Study area does not include MBS or other springs on Withlacoochee River, though findings may be possible to extend findings to these spring systems.</p>	<p>None</p>
30	<p>USGS Water Quality Monitoring.</p>	<p>Withlacoochee River near Pinetta Period of Data - Late 1950's to mid 1980's Madison Blue Spring sporadic during 1970's- 1990's.</p>	<p>Physical, major ions, nutrients, some contaminants.</p>	<p>May have some value in looking at historical conditions.</p>	<p>Data are very limited.</p>

VI. SUMMARY OF DATA SOURCES

	DATA SOURCE	PERIOD OF DATA	DESCRIPTION OF DATA	RELEVANCE TO SETTING MINIMUM FLOWS FOR MADISON BLUE SPRING	DATA LIMITATIONS
31	WARN Water Monitoring Atlas. SRWMD. FY 2003.	Not applicable	Description of WARN Water Monitoring System. Shows locations of various types of water monitoring stations including rain gauges, stream gauges, and groundwater wells.	Provides value as source to identify water quality monitoring location within the Madison Blue Spring.	N/A
32	Water Use Permits	The information is current.	A list of all water use permits issued in Madison and Hamilton County. Information available on each permit is the location and average and maximum daily pumping rates allowed.	Minimal without metering of withdrawals.	No information on actual water use is available.
33	Withlacoochee River Study: Fish Populations Above and Below Jumping Gully Creek FGFWFC Fish 1989.	Period of Data - May, August, November 1989.	Day and night sampling in May, August, and November 1989. Abundance and distribution (4 sites) for largemouth bass, Suwannee bass, darters, suckers, bowfin, and Lepomis spp.	Fish composition data important. Benthos provide an important food source for fish in the river.	Data are dated.

APPENDIX A
EXHIBIT 5

APPENDIX A – EXHIBIT 5

Boundary Conditions for HEC-RAS model

Date	Flow at Pinetta (cfs)	Inflow – Pinetta to Madison (cfs)	Inflow – Madison to Lee (cfs)	Stage at Lee (ft)
8/1/2002	95.	22	215	28.67
8/2/2002	98.	23	205	28.68
8/3/2002	101.	21	202	28.67
8/4/2002	104.	25	215	28.67
8/5/2002	98.	20	229	28.67
8/6/2002	82.	20	240	28.66
8/7/2002	82.	17	228	28.65
8/8/2002	76.	16	228	28.64
8/9/2002	67.	14	246	28.63
8/10/2002	60.	11	264	28.62
8/11/2002	57.	9	269	28.61
8/12/2002	54.	9	275	28.63
8/13/2002	54.	10	267	28.63
8/14/2002	49.	8	286	28.62
8/15/2002	56.	9	270	28.62
8/16/2002	57.	13	269	28.63
8/17/2002	56.	8	265	28.62
8/18/2002	90.	13	229	28.63
8/19/2002	85.	16	233	28.65
8/20/2002	84.	20	227	28.66
8/21/2002	72.	15	262	28.65
8/22/2002	79.	13	240	28.63
8/23/2002	107.	18	199	28.64
8/24/2002	99.	18	219	28.66
8/25/2002	82.	17	238	28.65
8/26/2002	85.	15	219	28.64
8/27/2002	88.	16	228	28.65
8/28/2002	90.	16	229	28.64
8/29/2002	114.	25	196	28.65
8/30/2002	209.	53	92	28.72
8/31/2002	514.	19	-67	29.03
9/1/2002	662.	43	-92	29.44
9/2/2002	477.	116	19	29.43
9/3/2002	307.	134	92	29.23
9/4/2002	219.	124	135	29.08
9/5/2002	163.	119	164	28.99
9/6/2002	141.	104	187	28.92
9/7/2002	128.	88	188	28.88
9/8/2002	119.	71	210	28.83
9/9/2002	115.	61	215	28.81
9/10/2002	113.	52	216	28.78
9/11/2002	111.	46	236	28.75
9/12/2002	108.	40	233	28.74
9/13/2002	106.	34	240	28.73
9/14/2002	105.	35	244	28.73

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9/15/2002	106.	34	238	28.71
9/16/2002	108.	32	227	28.7
9/17/2002	122.	44	197	28.7
9/18/2002	123.	54	178	28.73
9/19/2002	118.	48	174	28.73
9/20/2002	770.	-95	-217	29.05
9/21/2002	602.	96	-17	29.58
9/22/2002	372.	126	75	29.29
9/23/2002	250.	122	138	29.11
9/24/2002	206.	112	156	29.
9/25/2002	220.	101	131	28.97
9/26/2002	261.	98	104	29.
9/27/2002	275.	103	97	29.04
9/28/2002	260.	106	103	29.03
9/29/2002	238.	105	112	29.01
9/30/2002	207.	106	128	28.97
10/1/2002	159.	133	142	28.94
10/2/2002	145.	129	150	28.91
10/3/2002	149.	121	146	28.89
10/4/2002	149.	124	149	28.89
10/5/2002	133.	125	158	28.87
10/6/2002	114.	122	152	28.85
10/7/2002	100.	117	151	28.82
10/8/2002	88.	117	159	28.81
10/9/2002	71.	109	187	28.78
10/10/2002	61.	102	196	28.75
10/11/2002	58.	98	195	28.74
10/12/2002	50.	95	197	28.72
10/13/2002	45.	91	219	28.71
10/14/2002	41.	88	192	28.7
10/15/2002	47.	92	203	28.72
10/16/2002	44.	91	196	28.7
10/17/2002	37.	86	213	28.68
10/18/2002	33.	81	211	28.67
10/19/2002	32.	83	203	28.68
10/20/2002	31.	84	182	28.69
10/21/2002	31.	79	148	28.67
10/22/2002	111.	51	98	28.67
10/23/2002	246.	84	-8	28.83
10/24/2002	245.	113	52	28.95
10/25/2002	329.	75	32	28.99
10/26/2002	422.	93	-22	29.16
10/27/2002	403.	116	3	29.21
10/28/2002	393.	116	8	29.2
10/29/2002	430.	101	13	29.24
10/30/2002	537.	70	-17	29.35
10/31/2002	707.	42	-96	29.55
11/1/2002	695.	89	-68	29.68
11/2/2002	647.	114	-54	29.7

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11/3/2002	634.	112	-26	29.69
11/4/2002	677.	95	-53	29.73
11/5/2002	744.	83	-95	29.82
11/6/2002	841.	43	-83	29.92
11/7/2002	1150.	-36	-158	30.24
11/8/2002	1100.	55	-128	30.41

APPENDIX A
EXHIBIT 6

APPENDIX A EXHIBIT 6

HEC-RAS model results at Shoals 1-3

Date	Shoal 1		Shoal 2		Shoal 3	
	Stage (ft)	Discharge (cfs)	Stage (ft)	Discharge (cfs)	Stage (ft)	Discharge
8/1/2002	40.45	127	40.41	133	40.21	163
8/2/2002	40.43	129	40.39	134	40.18	163
8/3/2002	40.44	130	40.40	135	40.19	163
8/4/2002	40.55	134	40.51	139	40.30	168
8/5/2002	40.57	134	40.54	139	40.33	171
8/6/2002	40.48	128	40.45	134	40.24	169
8/7/2002	40.31	120	40.27	125	40.07	159
8/8/2002	40.25	112	40.22	118	40.03	150
8/9/2002	40.32	106	40.29	112	40.11	146
8/10/2002	40.37	100	40.34	107	40.17	143
8/11/2002	40.32	95	40.29	101	40.12	140
8/12/2002	40.27	90	40.24	97	40.08	136
8/13/2002	40.19	86	40.17	93	40.01	131
8/14/2002	40.22	80	40.20	87	40.05	127
8/15/2002	40.17	81	40.16	87	40.00	126
8/16/2002	40.18	80	40.17	87	40.01	125
8/17/2002	40.16	79	40.14	85	39.99	123
8/18/2002	40.16	89	40.14	94	39.98	127
8/19/2002	40.26	93	40.24	99	40.07	131
8/20/2002	40.36	101	40.34	107	40.16	138
8/21/2002	40.47	101	40.45	107	40.28	142
8/22/2002	40.37	105	40.34	111	40.16	146
8/23/2002	40.27	112	40.23	117	40.03	147
8/24/2002	40.38	114	40.35	119	40.16	149
8/25/2002	40.50	115	40.47	121	40.28	153
8/26/2002	40.39	115	40.36	121	40.16	153
8/27/2002	40.39	115	40.36	120	40.16	152
8/28/2002	40.41	115	40.37	121	40.18	153
8/29/2002	40.42	126	40.38	131	40.16	158
8/30/2002	40.79	193	40.74	195	40.47	204
8/31/2002	41.40	497	41.35	494	41.07	477
9/1/2002	41.90	660	41.85	657	41.56	638
9/2/2002	41.49	655	41.44	656	41.18	664
9/3/2002	40.73	503	40.69	507	40.45	529
9/4/2002	40.25	376	40.21	380	39.98	404
9/5/2002	40.15	297	40.11	301	39.89	325
9/6/2002	40.13	245	40.09	249	39.88	276
9/7/2002	40.17	213	40.12	218	39.88	244
9/8/2002	40.37	196	40.32	200	40.07	227
9/9/2002	40.49	186	40.44	191	40.19	220
9/10/2002	40.50	178	40.46	183	40.21	213
9/11/2002	40.55	171	40.51	177	40.27	209
9/12/2002	40.50	164	40.46	170	40.22	203
9/13/2002	40.48	157	40.44	163	40.20	196

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9/14/2002	40.50	153	40.46	158	40.23	192
9/15/2002	40.50	151	40.46	157	40.23	190
9/16/2002	40.49	150	40.45	156	40.21	188
9/17/2002	40.54	160	40.49	165	40.24	192
9/18/2002	40.66	175	40.61	180	40.35	203
9/19/2002	40.66	181	40.61	185	40.36	209
9/20/2002	41.66	540	41.61	532	41.32	490
9/21/2002	41.71	729	41.67	728	41.40	725
9/22/2002	40.95	575	40.90	578	40.66	598
9/23/2002	40.39	417	40.35	422	40.12	447
9/24/2002	40.19	330	40.15	334	39.92	358
9/25/2002	40.30	299	40.25	302	40.01	319
9/26/2002	40.64	319	40.59	321	40.33	332
9/27/2002	41.12	379	41.07	380	40.81	389
9/28/2002	41.02	395	40.97	397	40.72	413
9/29/2002	40.69	368	40.65	371	40.40	391
9/30/2002	40.52	332	40.47	335	40.23	355
10/1/2002	40.48	304	40.44	308	40.20	328
10/2/2002	40.38	276	40.34	279	40.12	301
10/3/2002	40.37	261	40.32	265	40.09	286
10/4/2002	40.54	267	40.49	270	40.22	290
10/5/2002	40.61	272	40.56	276	40.30	297
10/6/2002	40.43	259	40.38	263	40.14	286
10/7/2002	40.26	235	40.21	239	39.96	262
10/8/2002	40.29	216	40.24	219	39.98	242
10/9/2002	40.41	198	40.36	202	40.12	227
10/10/2002	40.43	182	40.38	186	40.14	214
10/11/2002	40.42	170	40.38	175	40.13	202
10/12/2002	40.43	161	40.39	166	40.15	194
10/13/2002	40.51	154	40.47	159	40.25	189
10/14/2002	40.39	148	40.35	153	40.12	181
10/15/2002	40.48	147	40.44	151	40.21	179
10/16/2002	40.50	146	40.46	151	40.23	178
10/17/2002	40.51	142	40.48	147	40.26	176
10/18/2002	40.43	135	40.40	141	40.18	171
10/19/2002	40.37	131	40.33	136	40.12	165
10/20/2002	40.31	129	40.27	133	40.05	159
10/21/2002	40.18	124	40.14	128	39.93	150
10/22/2002	40.11	128	40.07	130	39.84	145
10/23/2002	40.83	214	40.77	213	40.48	204
10/24/2002	41.38	370	41.33	370	41.07	371
10/25/2002	41.08	408	41.04	410	40.78	418
10/26/2002	41.18	483	41.13	482	40.84	478
10/27/2002	41.30	540	41.25	540	40.98	539
10/28/2002	41.01	530	40.96	531	40.70	535
10/29/2002	40.95	524	40.90	524	40.63	527
10/30/2002	41.20	575	41.15	574	40.87	569
10/31/2002	41.67	704	41.62	701	41.31	682
11/1/2002	41.86	795	41.81	793	41.52	781

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11/2/2002	41.56	780	41.51	779	41.23	775
11/3/2002	41.45	749	41.40	749	41.12	747
11/4/2002	41.50	758	41.44	756	41.15	748
11/5/2002	41.66	807	41.60	804	41.30	789
11/6/2002	41.86	866	41.81	864	41.51	850
11/7/2002	42.36	1051	42.30	1046	41.98	1019
11/8/2002	42.42	1183	42.37	1180	42.07	1161

APPENDIX A
EXHIBIT 7

APPENDIX A-EXHIBIT 7

HEC-RAS model results at Shoals 4-6

Date	Shoal 4		Shoal 5		Shoal 6	
	Stage (ft)	Discharge (cfs)	Stage (ft)	Discharge (cfs)	Stage (ft)	Discharge
8/1/2002	37.30	262	36.79	269	31.14	318
8/2/2002	37.26	259	36.74	265	31.10	312
8/3/2002	37.28	256	36.76	262	31.08	308
8/4/2002	37.40	264	36.91	270	31.17	317
8/5/2002	37.44	276	36.94	283	31.27	335
8/6/2002	37.32	283	36.82	290	31.28	346
8/7/2002	37.12	270	36.60	278	31.14	332
8/8/2002	37.12	256	36.59	263	31.07	316
8/9/2002	37.30	255	36.80	262	31.14	317
8/10/2002	37.41	263	36.92	271	31.23	330
8/11/2002	37.33	266	36.83	275	31.23	337
8/12/2002	37.27	265	36.76	273	31.21	337
8/13/2002	37.20	257	36.68	265	31.13	327
8/14/2002	37.32	257	36.81	266	31.20	330
8/15/2002	37.25	252	36.74	261	31.13	323
8/16/2002	37.28	249	36.77	257	31.12	318
8/17/2002	37.29	245	36.78	254	31.11	314
8/18/2002	37.20	234	36.68	242	30.98	295
8/19/2002	37.34	235	36.85	242	31.04	293
8/20/2002	37.42	240	36.94	247	31.10	298
8/21/2002	37.58	259	37.11	267	31.27	325
8/22/2002	37.32	262	36.83	271	31.19	328
8/23/2002	37.08	244	36.55	251	30.96	300
8/24/2002	37.31	245	36.81	251	31.06	298
8/25/2002	37.51	258	37.04	265	31.21	317
8/26/2002	37.32	259	36.82	267	31.15	319
8/27/2002	37.29	258	36.78	265	31.13	318
8/28/2002	37.31	259	36.80	266	31.14	318
8/29/2002	37.21	251	36.69	257	31.03	303
8/30/2002	37.34	242	36.84	244	31.08	264
8/31/2002	38.03	428	37.60	424	31.80	397
9/1/2002	38.53	581	38.12	577	32.27	549
9/2/2002	38.31	681	37.90	683	32.18	690
9/3/2002	37.68	591	37.23	596	31.70	625
9/4/2002	37.31	478	36.82	483	31.33	520
9/5/2002	37.15	404	36.64	410	31.17	450
9/6/2002	37.21	361	36.71	367	31.20	408
9/7/2002	37.22	331	36.73	337	31.21	380
9/8/2002	37.29	322	36.82	328	31.30	375
9/9/2002	37.31	318	36.83	324	31.32	373
9/10/2002	37.29	313	36.81	320	31.29	369
9/11/2002	37.34	317	36.88	324	31.36	377
9/12/2002	37.29	313	36.82	320	31.30	374
9/13/2002	37.27	308	36.80	316	31.29	371

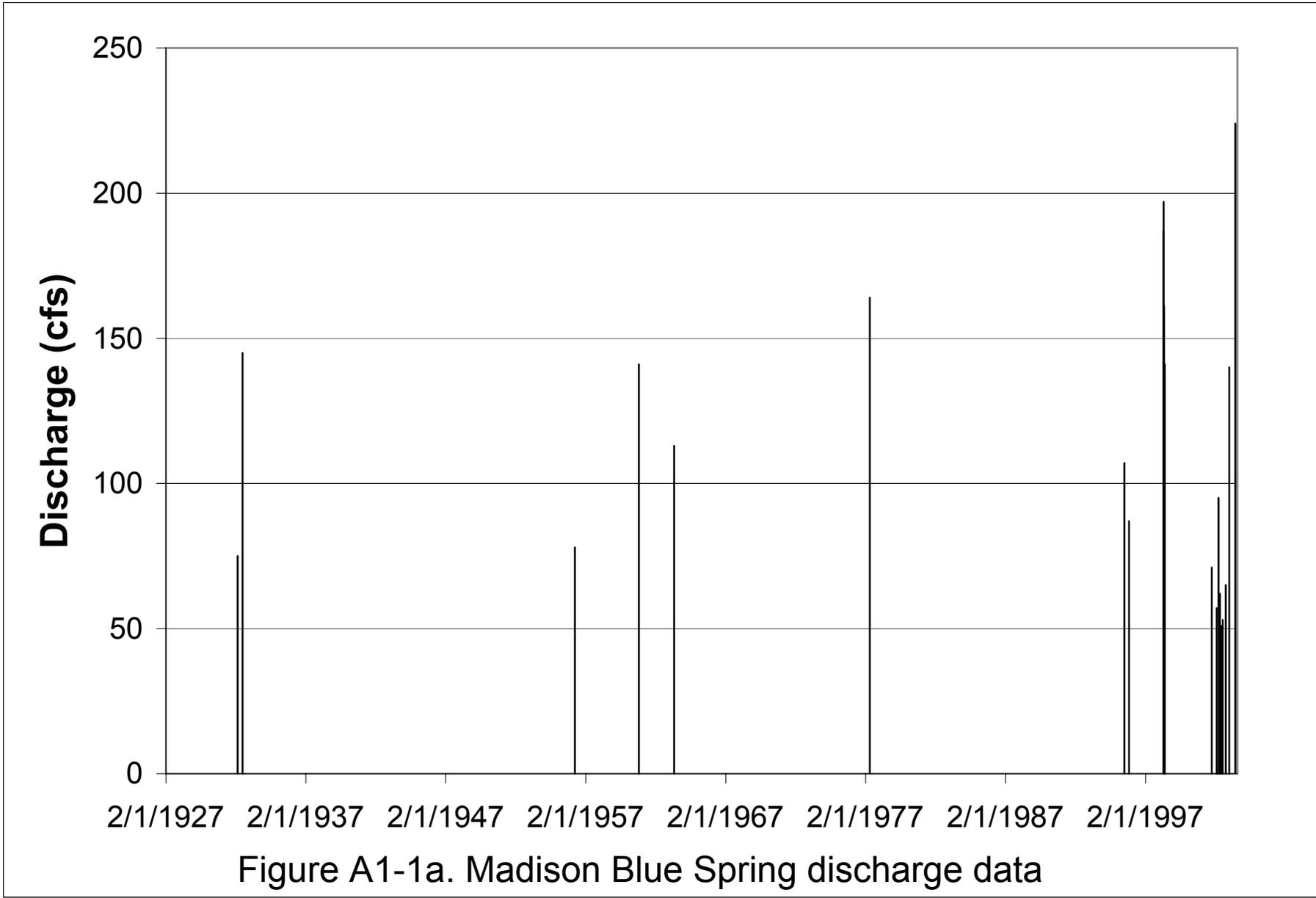
APPENDIX A-EXHIBIT 7

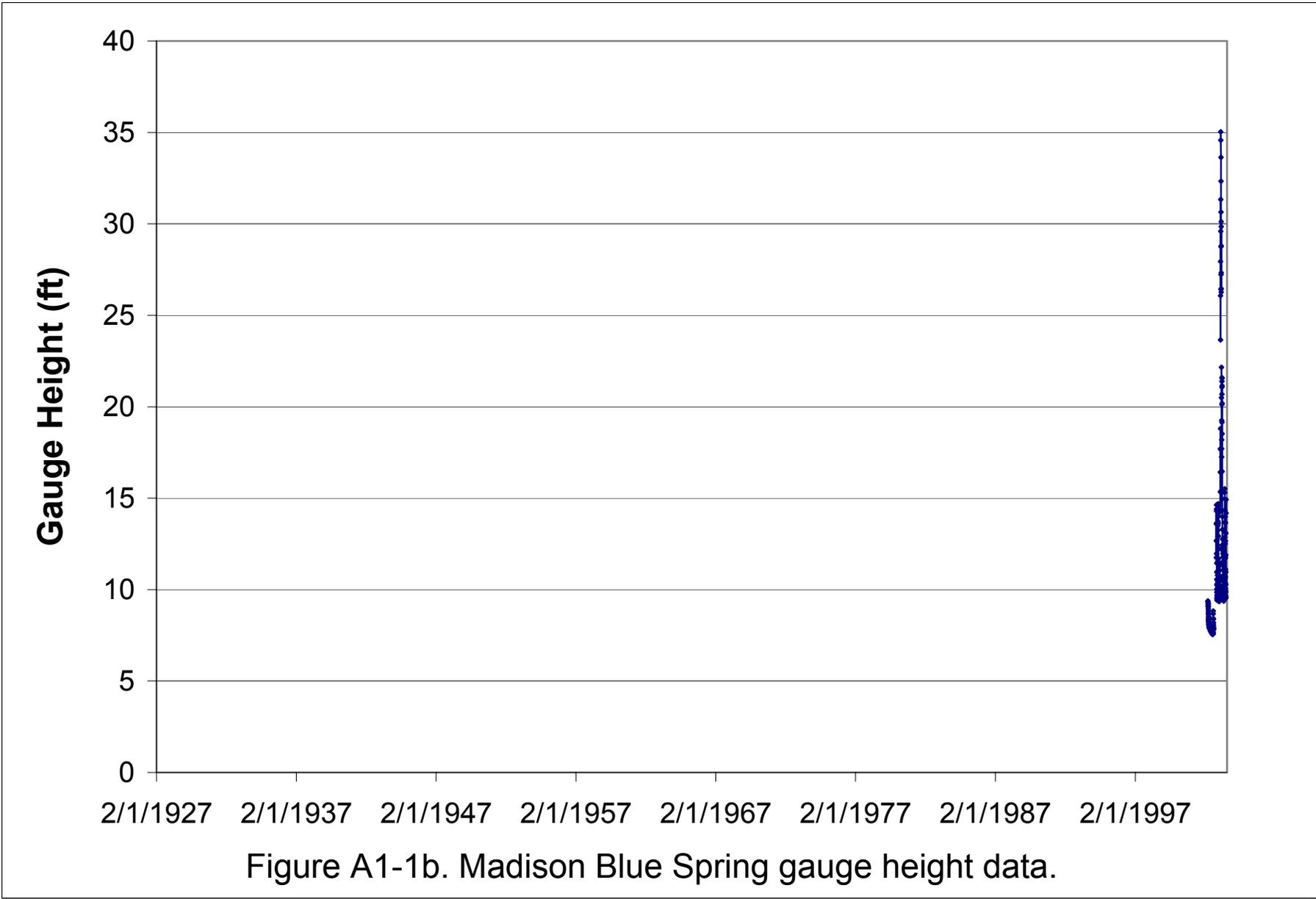
9/14/2002	37.27	305	36.79	313	31.29	368
9/15/2002	37.23	300	36.76	308	31.26	363
9/16/2002	37.19	294	36.71	301	31.22	353
9/17/2002	37.12	284	36.62	290	31.13	336
9/18/2002	37.20	283	36.68	288	31.15	328
9/19/2002	37.28	288	36.78	294	31.21	332
9/20/2002	38.16	364	37.76	355	32.04	294
9/21/2002	38.55	710	38.18	708	32.51	699
9/22/2002	37.88	653	37.46	658	31.89	684
9/23/2002	37.42	525	36.94	531	31.44	569
9/24/2002	37.20	436	36.70	442	31.23	481
9/25/2002	37.17	379	36.65	384	31.09	415
9/26/2002	37.40	373	36.92	376	31.29	396
9/27/2002	37.84	421	37.39	423	31.67	440
9/28/2002	37.84	462	37.40	465	31.70	488
9/29/2002	37.54	451	37.07	456	31.45	485
9/30/2002	37.39	419	36.91	423	31.30	455
10/1/2002	37.40	394	36.92	399	31.31	431
10/2/2002	37.37	372	36.89	377	31.31	411
10/3/2002	37.34	354	36.86	359	31.28	393
10/4/2002	37.44	356	36.97	360	31.37	393
10/5/2002	37.54	368	37.08	373	31.46	407
10/6/2002	37.42	360	36.95	365	31.35	401
10/7/2002	37.27	336	36.78	341	31.23	378
10/8/2002	37.21	317	36.72	322	31.20	358
10/9/2002	37.26	311	36.79	317	31.28	358
10/10/2002	37.24	304	36.76	311	31.26	356
10/11/2002	37.16	293	36.68	300	31.19	345
10/12/2002	37.14	285	36.64	291	31.17	336
10/13/2002	37.26	287	36.76	293	31.25	342
10/14/2002	37.10	274	36.58	280	31.11	326
10/15/2002	37.21	270	36.70	276	31.14	322
10/16/2002	37.26	268	36.75	274	31.13	319
10/17/2002	37.34	273	36.84	279	31.20	327
10/18/2002	37.25	271	36.74	278	31.17	327
10/19/2002	37.17	261	36.65	268	31.09	315
10/20/2002	37.12	245	36.59	251	30.97	294
10/21/2002	37.05	221	36.51	226	30.79	261
10/22/2002	36.96	193	36.42	196	30.75	219
10/23/2002	37.27	188	36.76	187	31.04	182
10/24/2002	38.16	373	37.80	372	32.07	367
10/25/2002	37.88	441	37.45	443	31.80	455
10/26/2002	37.72	470	37.25	470	31.54	468
10/27/2002	37.99	534	37.55	533	31.80	530
10/28/2002	37.77	546	37.32	547	31.66	551
10/29/2002	37.69	535	37.22	535	31.58	540
10/30/2002	37.82	557	37.36	556	31.66	551
10/31/2002	38.12	628	37.67	624	31.88	598
11/1/2002	38.49	740	38.08	737	32.27	716

APPENDIX A-EXHIBIT 7

11/2/2002	38.24	758	37.81	757	32.11	748
11/3/2002	38.13	738	37.69	737	32.01	733
11/4/2002	38.10	724	37.65	723	31.96	711
11/5/2002	38.19	741	37.75	738	32.02	715
11/6/2002	38.44	804	38.01	801	32.26	779
11/7/2002	38.78	934	38.37	928	32.52	888
11/8/2002	39.03	1096	38.63	1091	32.77	1058

APPENDIX A1





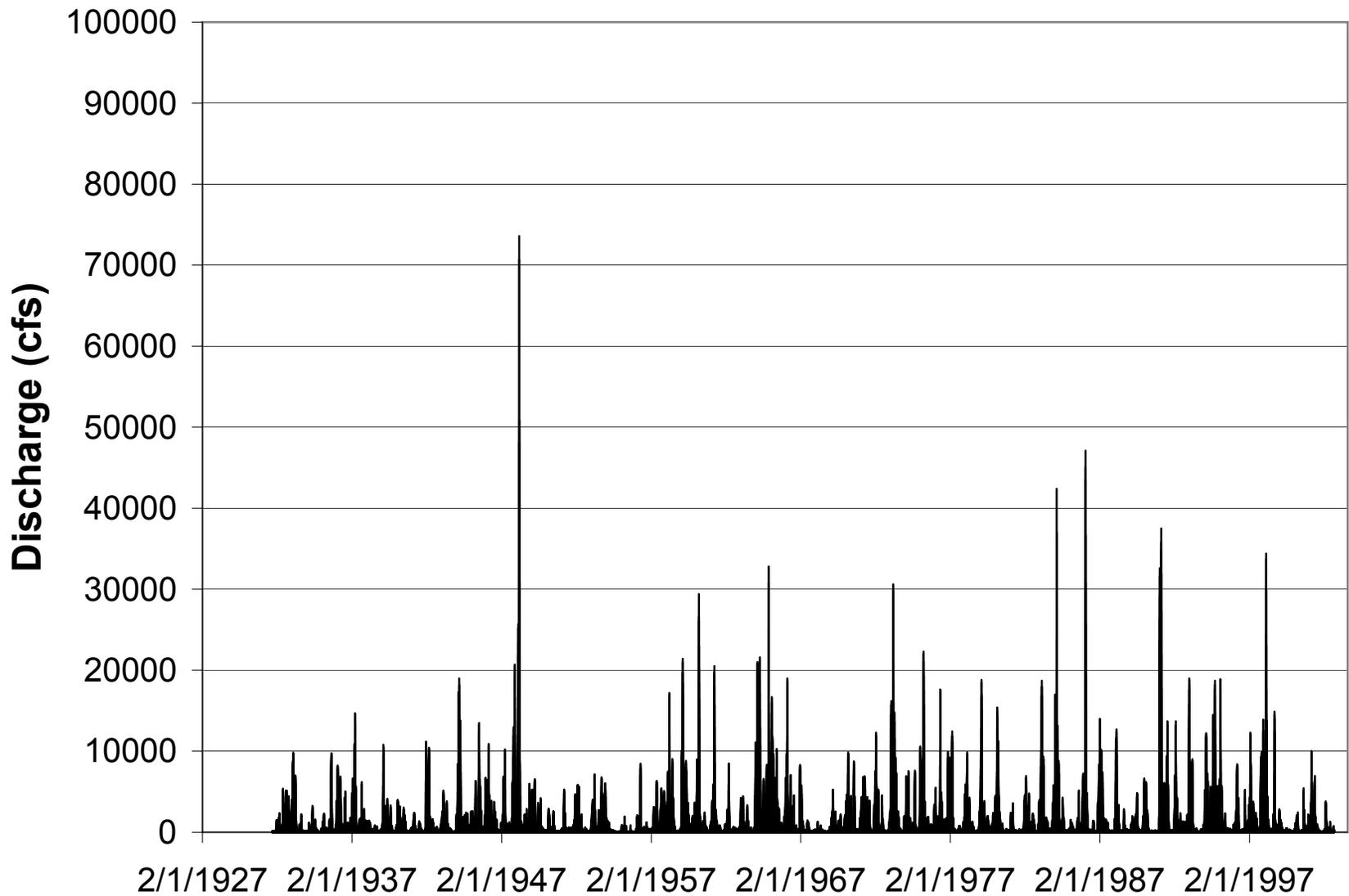
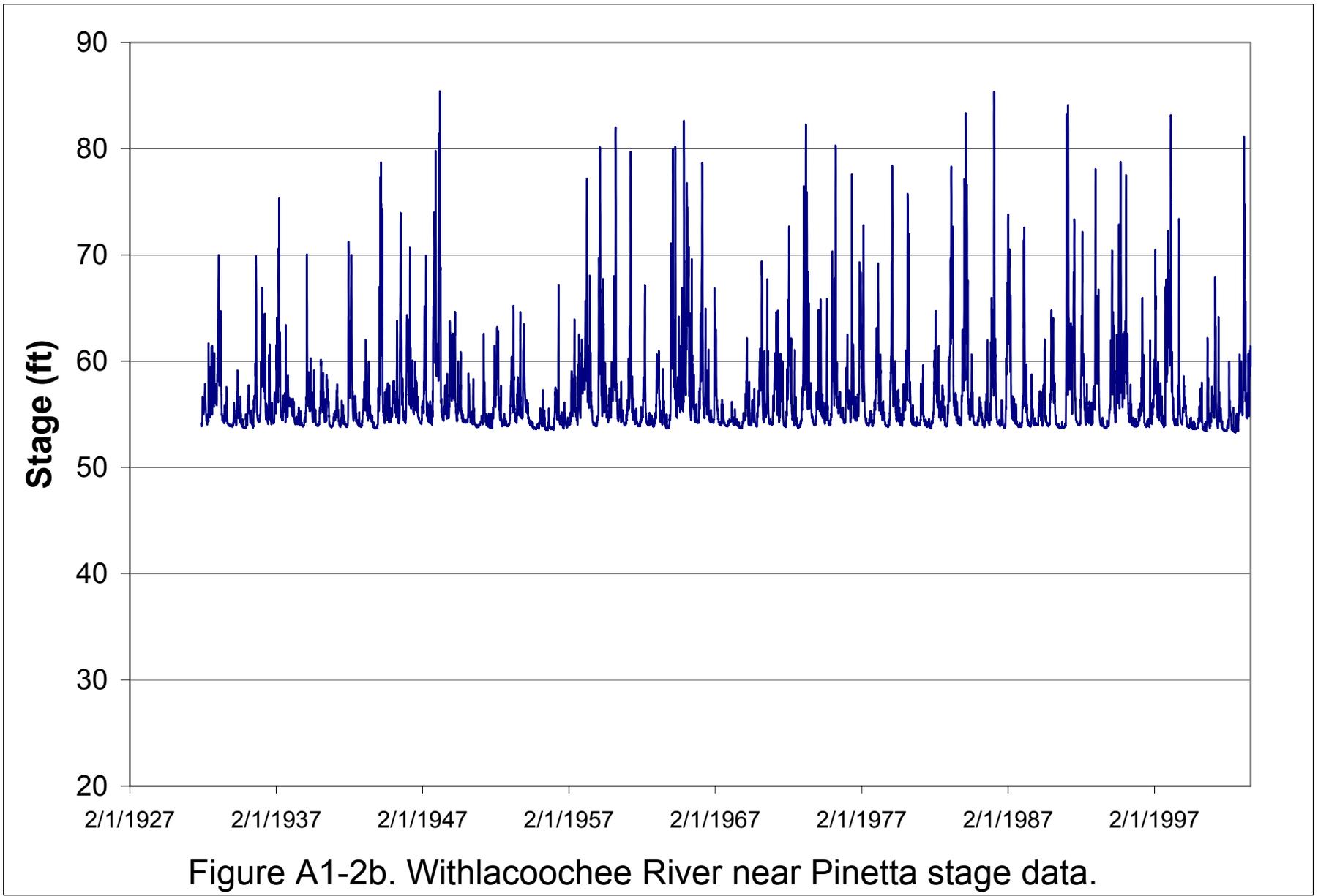


Figure A1-2a. Withlacoochee River near Pinetta discharge data.



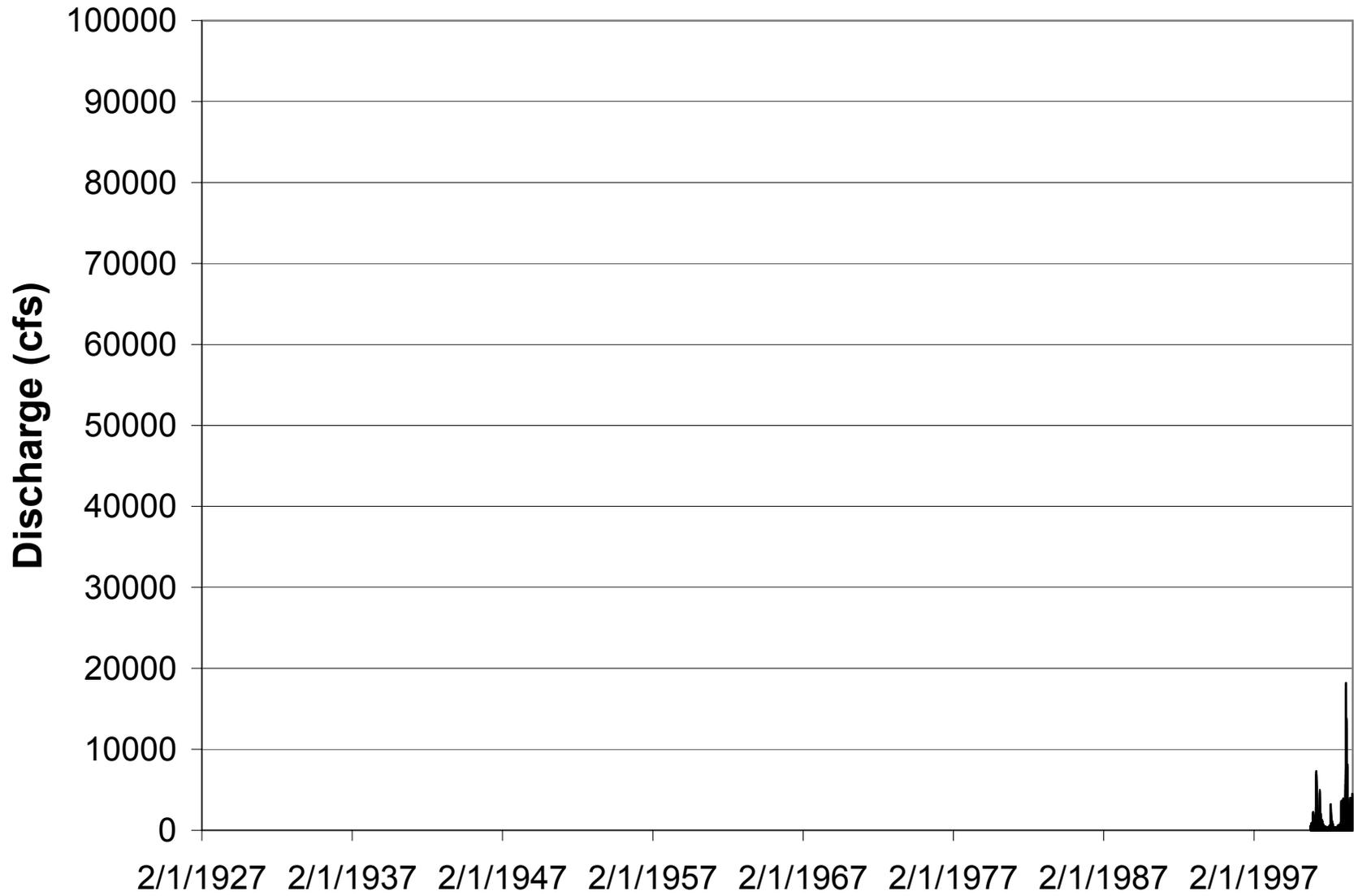


Figure A1-3a. Withlacoochee River near Lee discharge data.

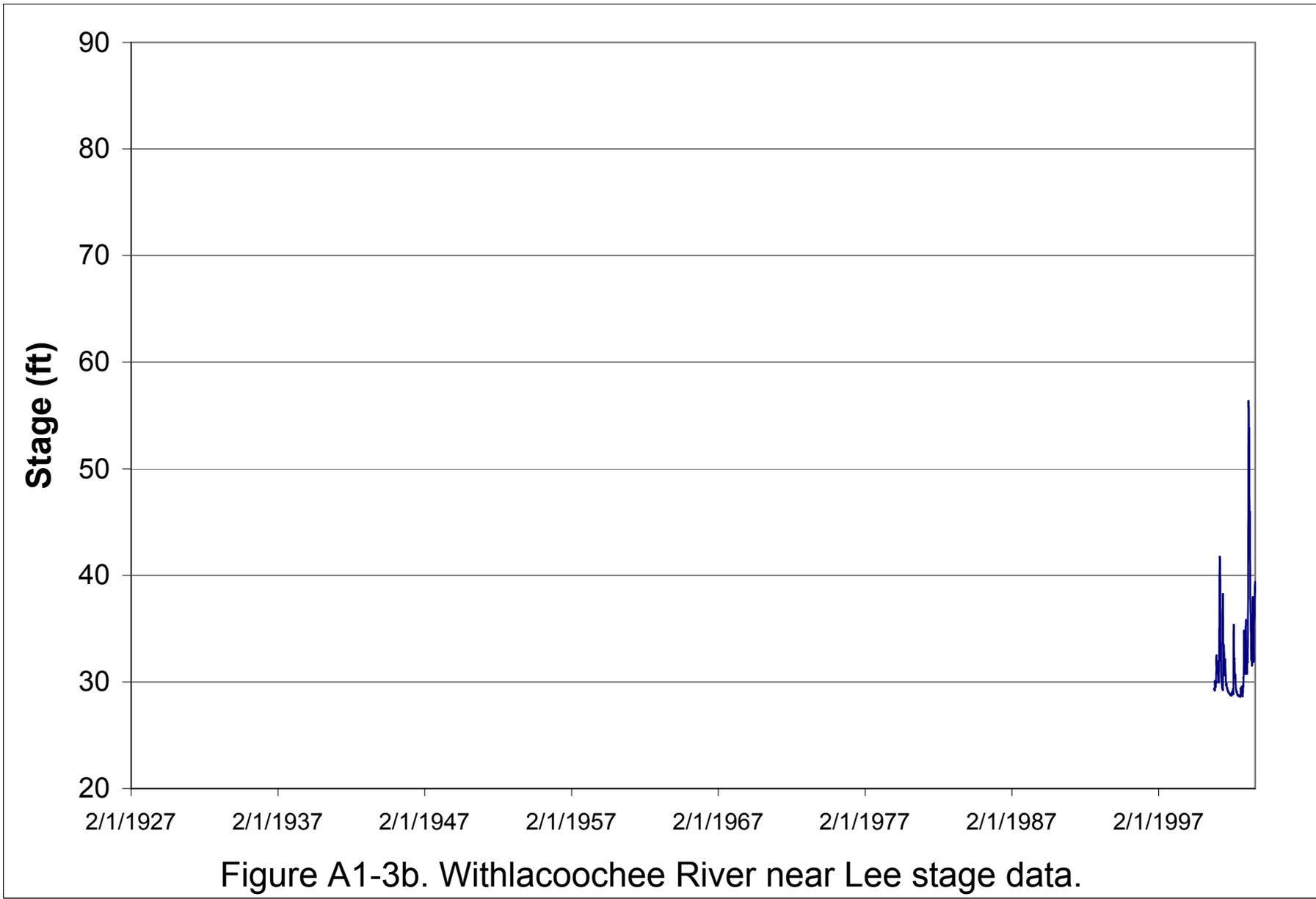


Figure A1-3b. Withlacoochee River near Lee stage data.

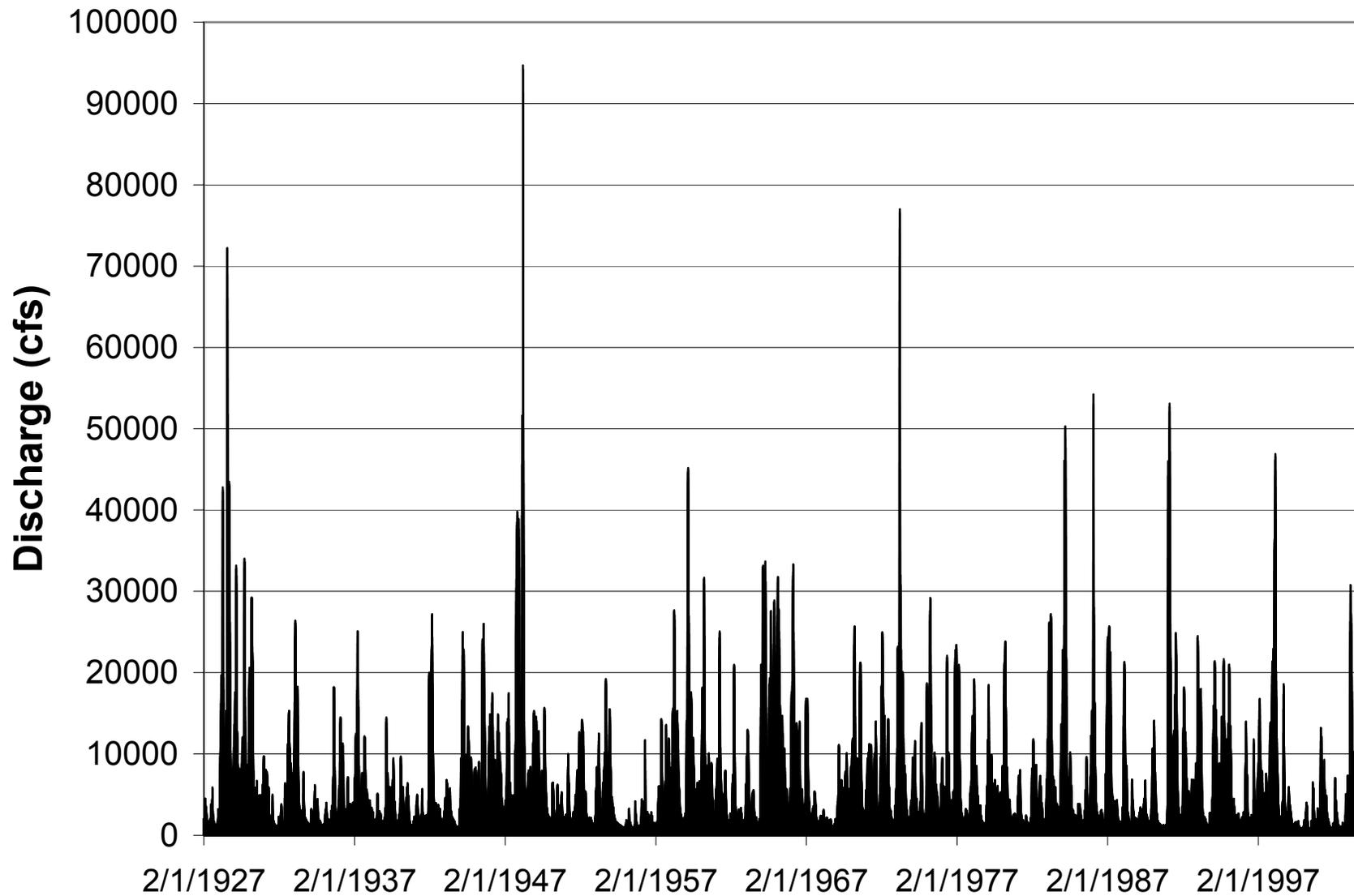


Figure A1-4a. Suwannee River at Ellaville discharge data.

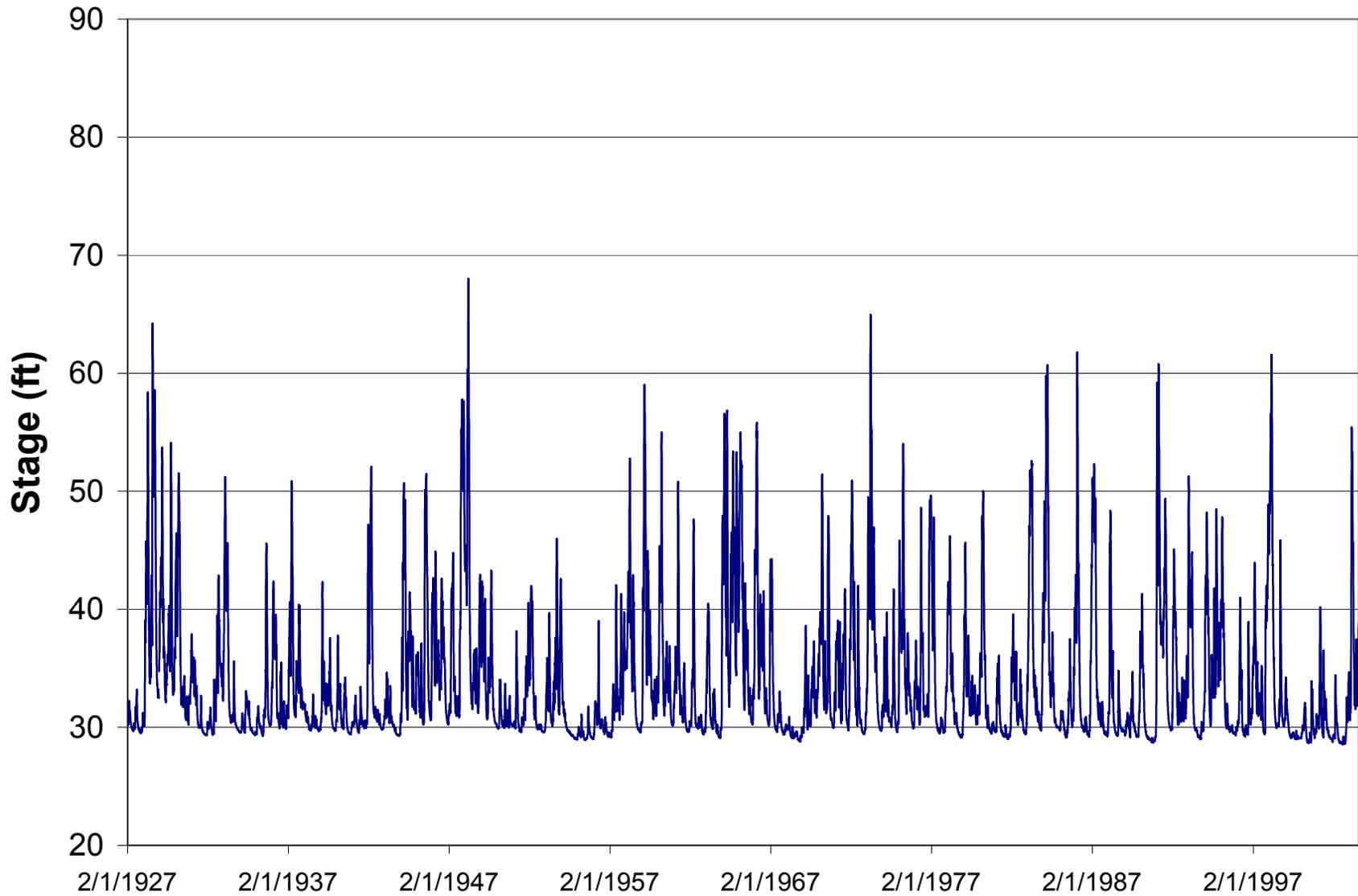


Figure A1-4b. Suwannee River at Ellaville stage data.

APPENDIX A2

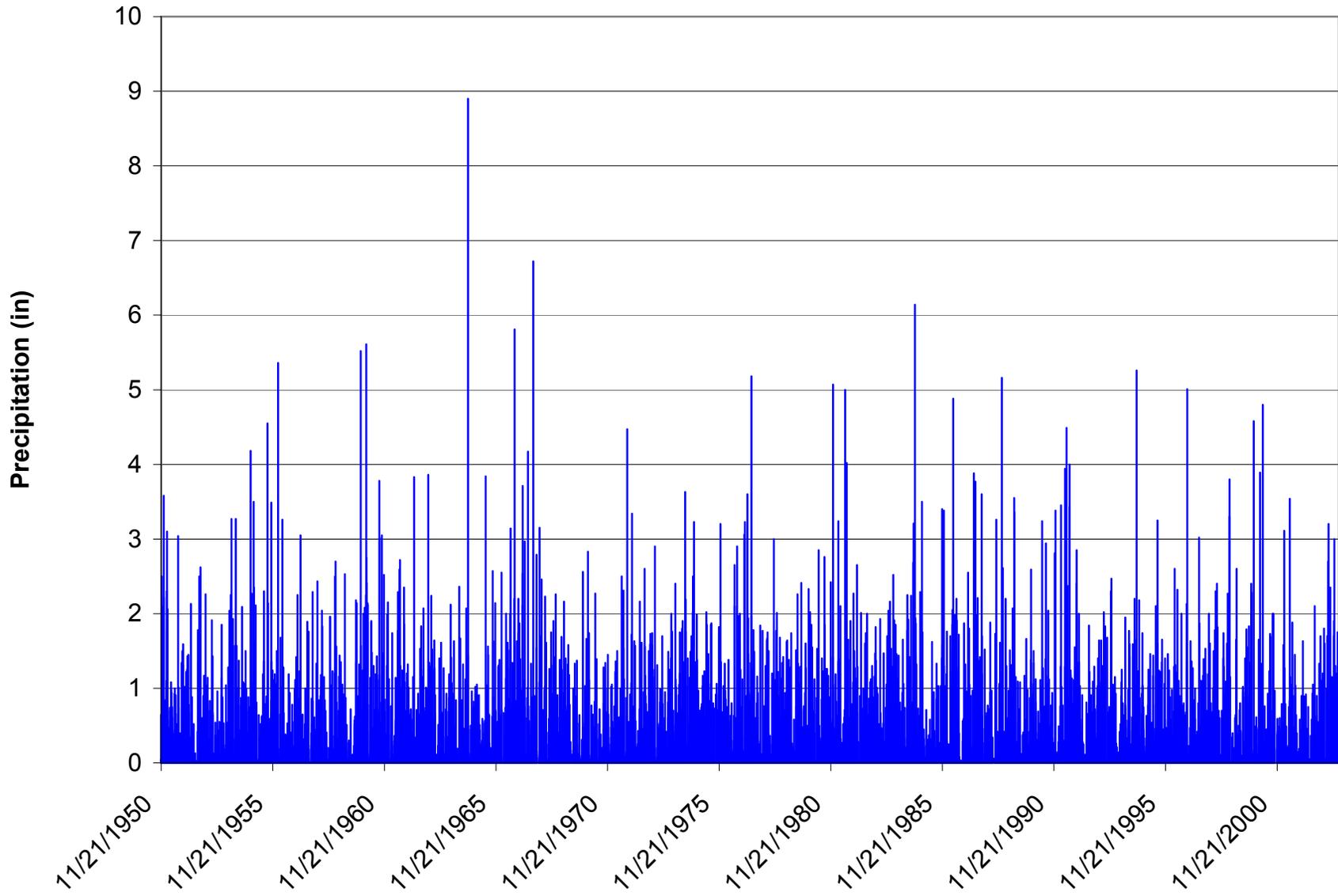
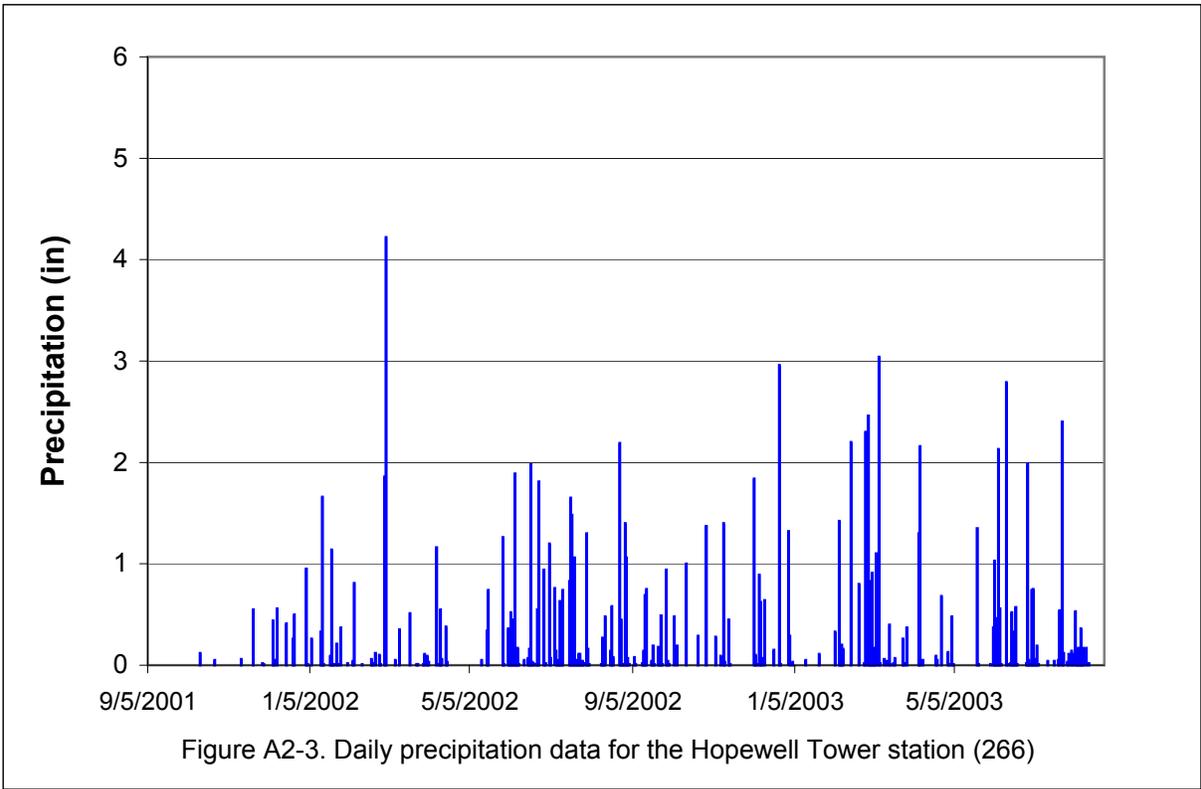
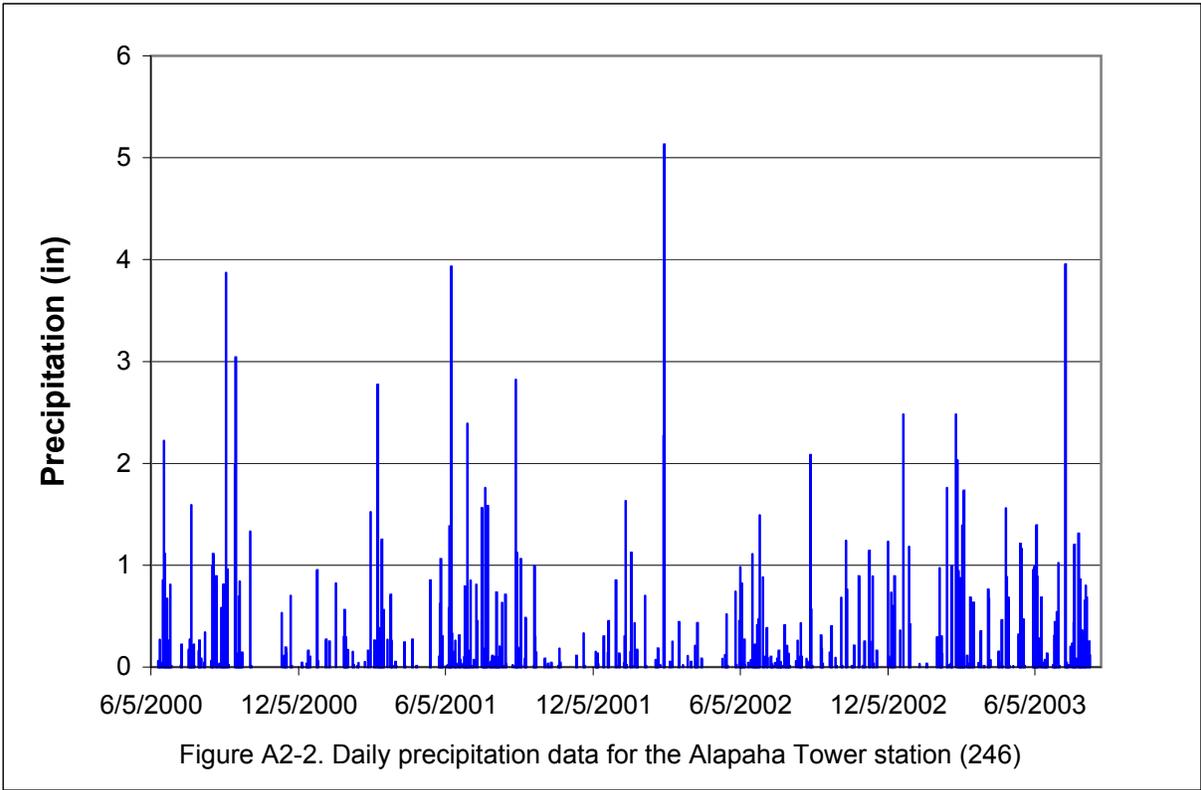


Figure A2-1. Daily precipitation data for the NOAA rainfall gauge at Madison



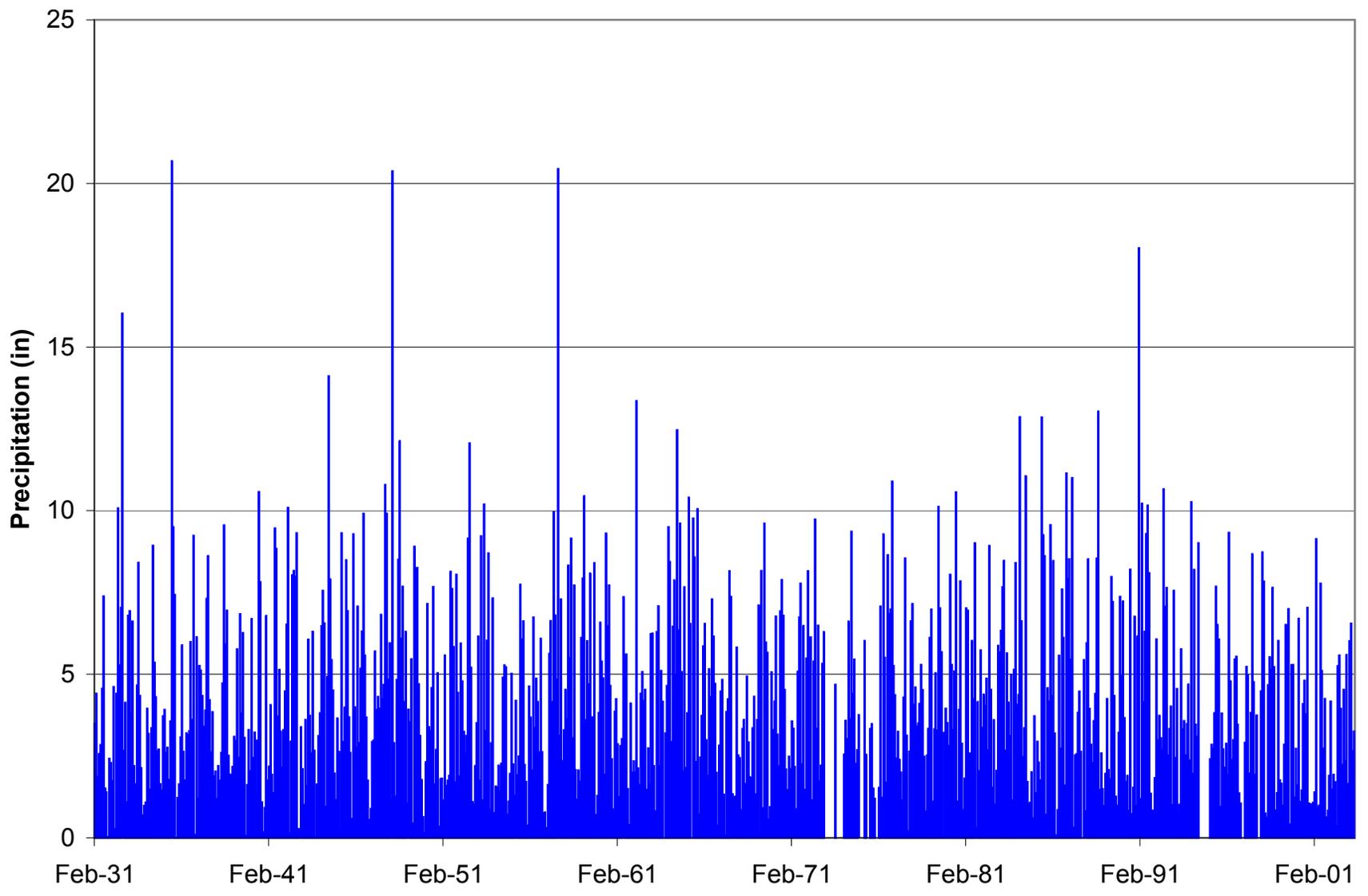
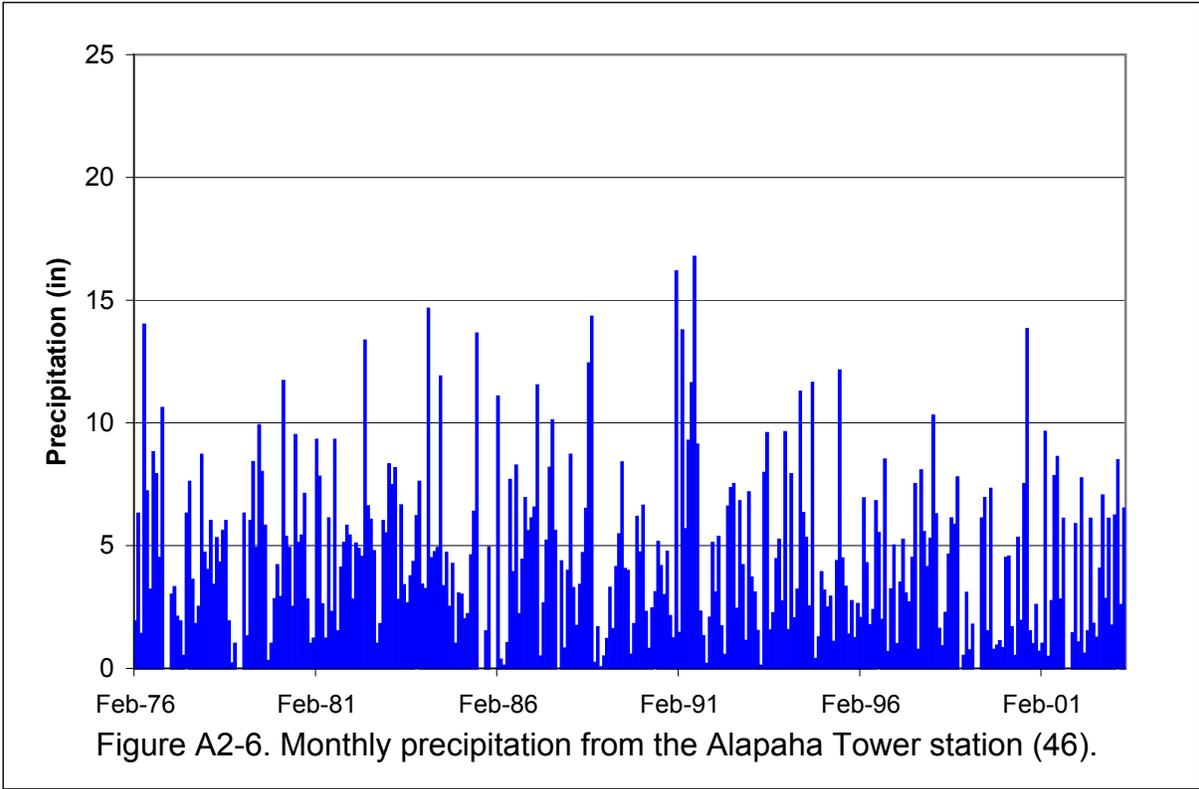
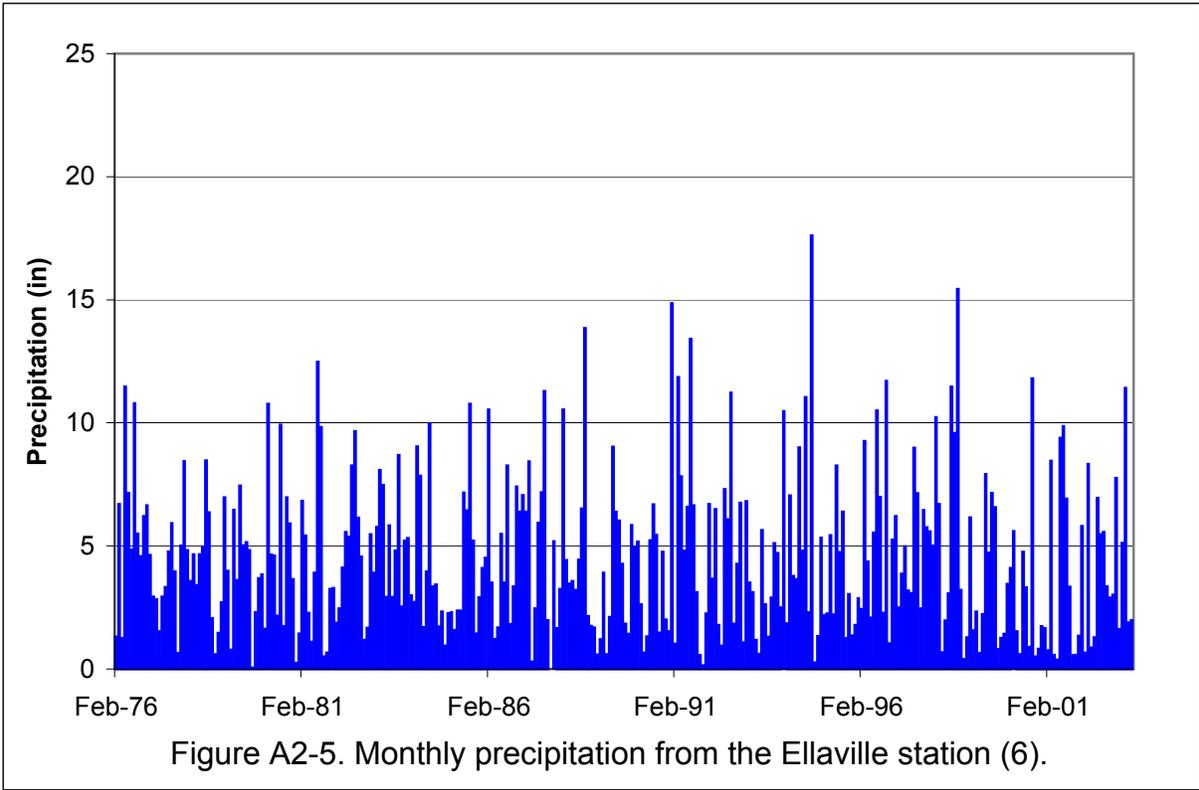
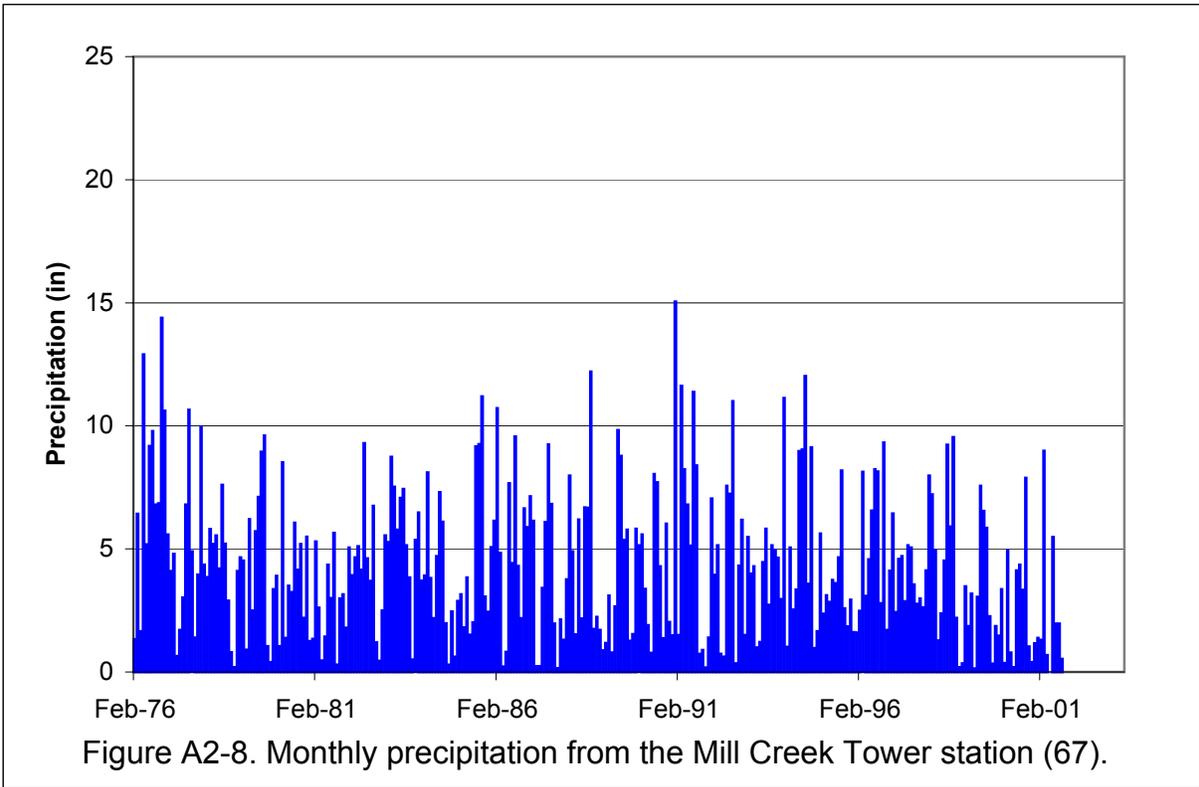
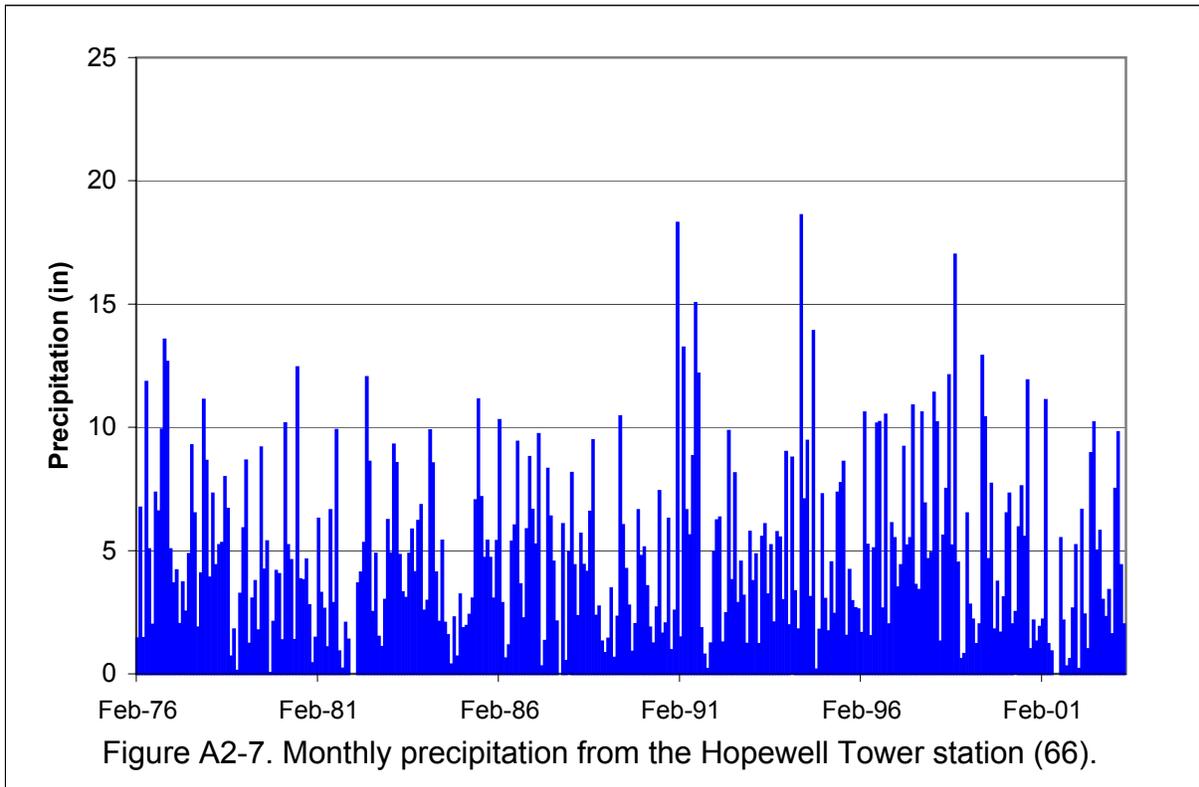
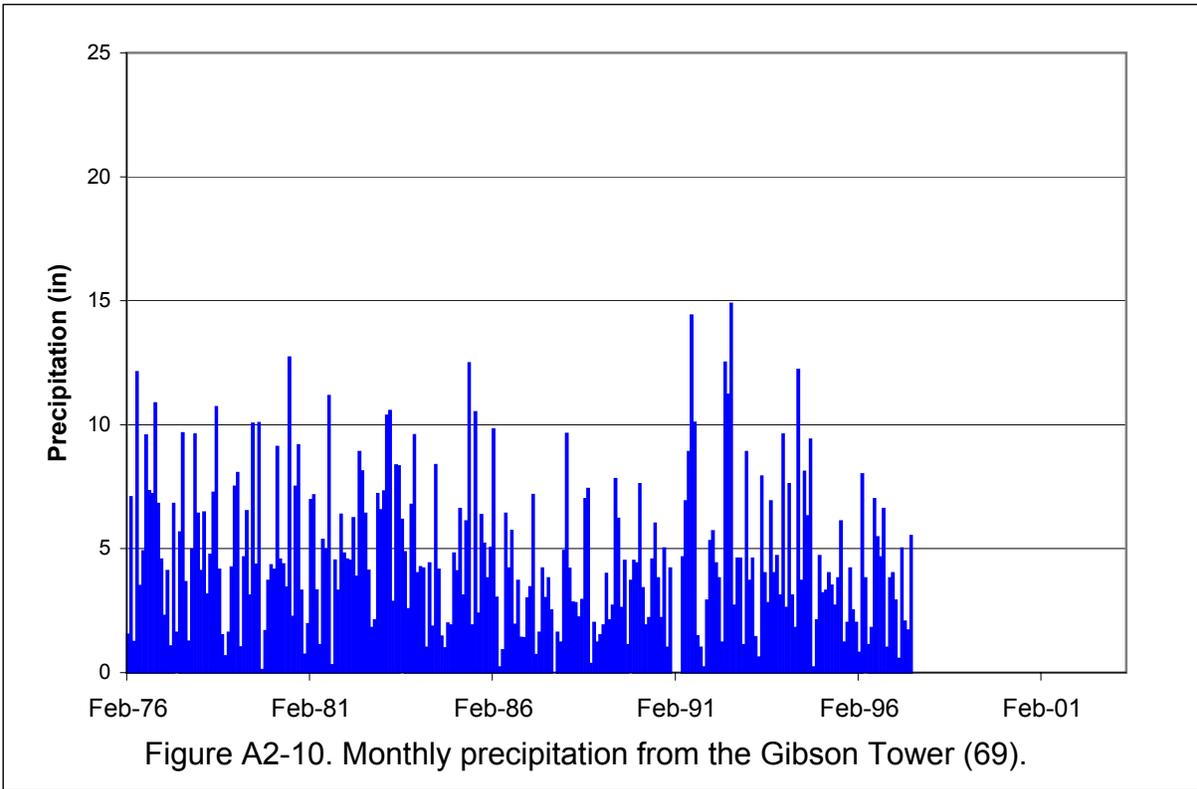
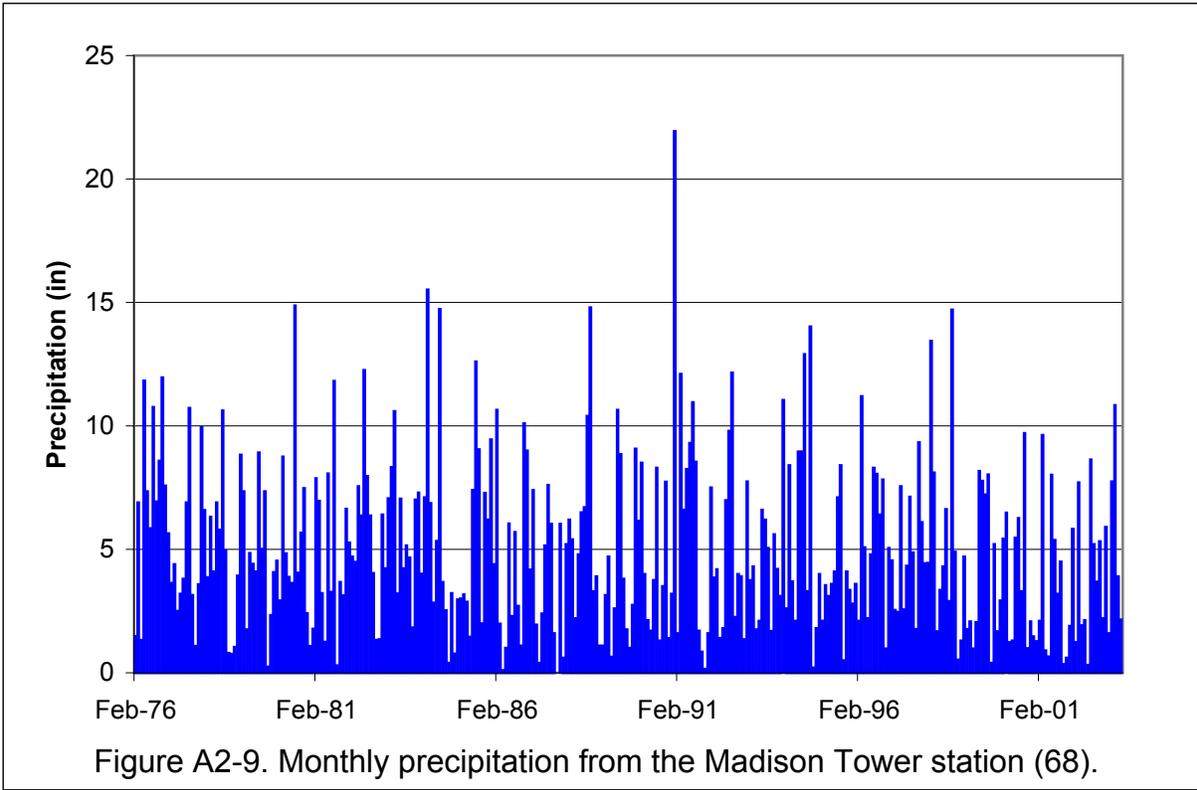


Figure A2-4. Monthly precipitation data for the Madison station (22).







APPENDIX A3

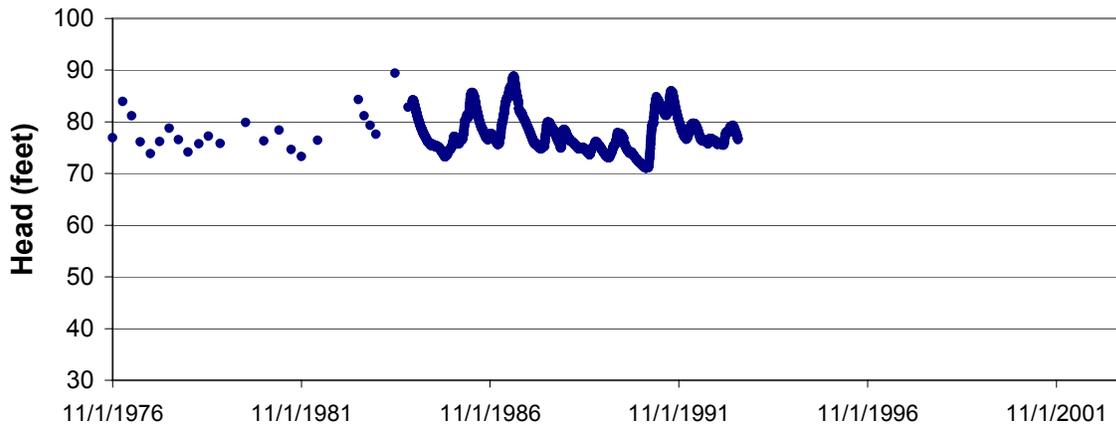


Figure A3-1. Water level data for well #1.

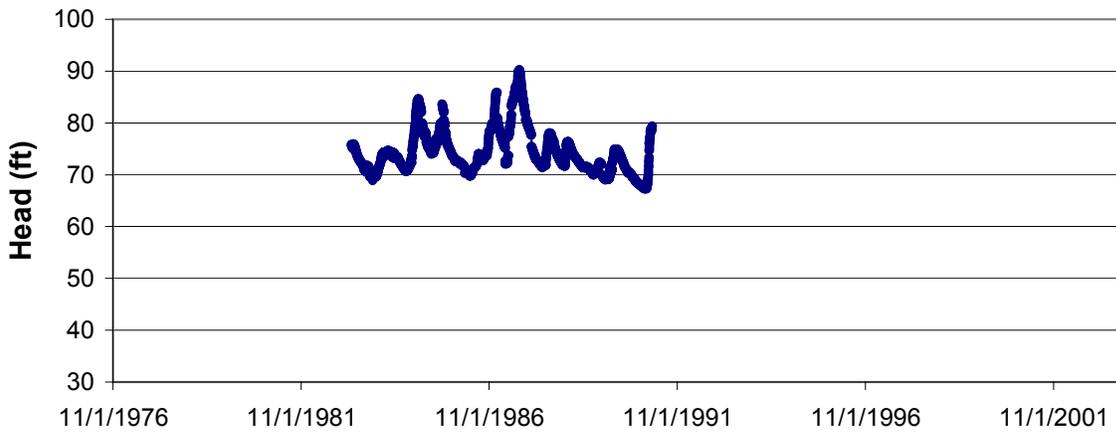


Figure A3-2. Water level data for well #2.

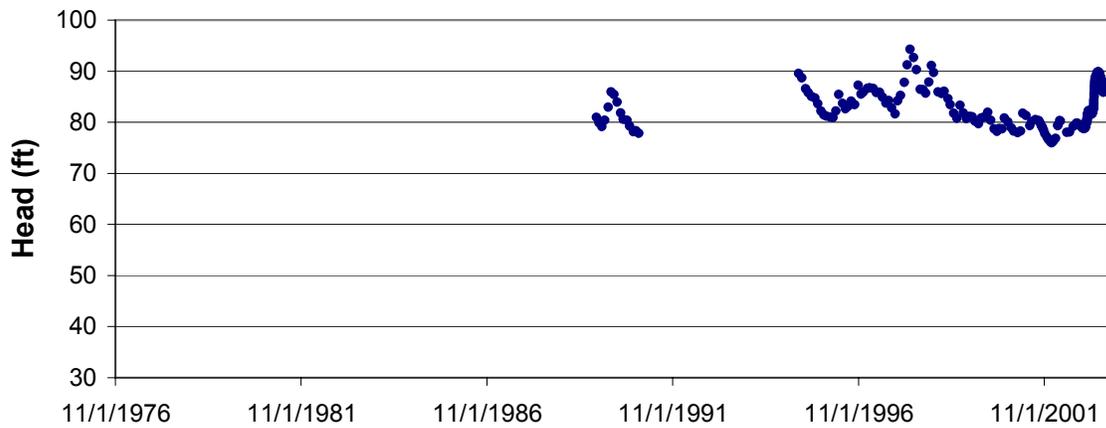
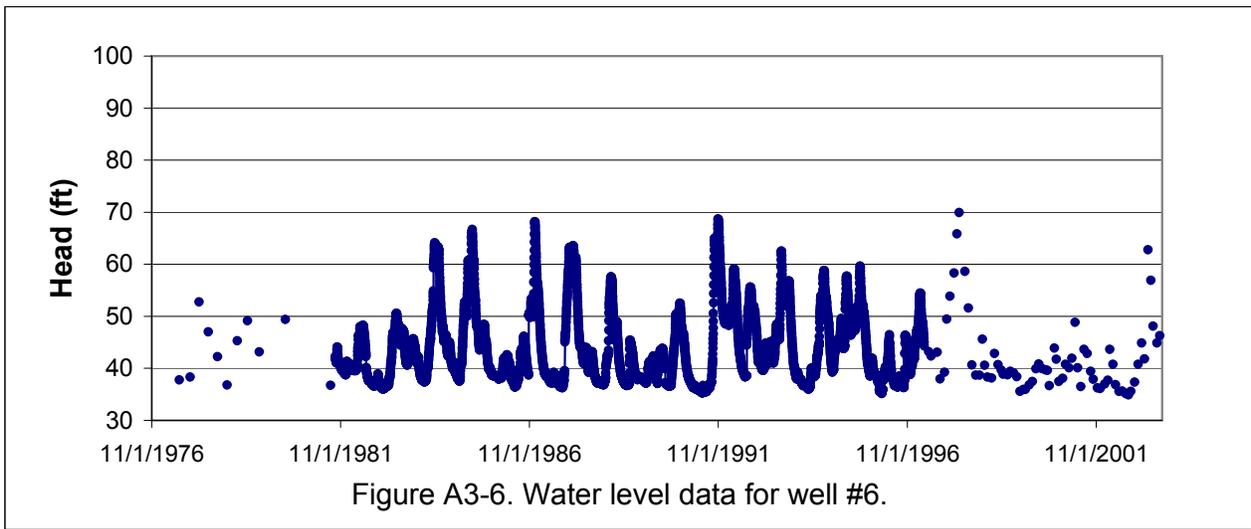
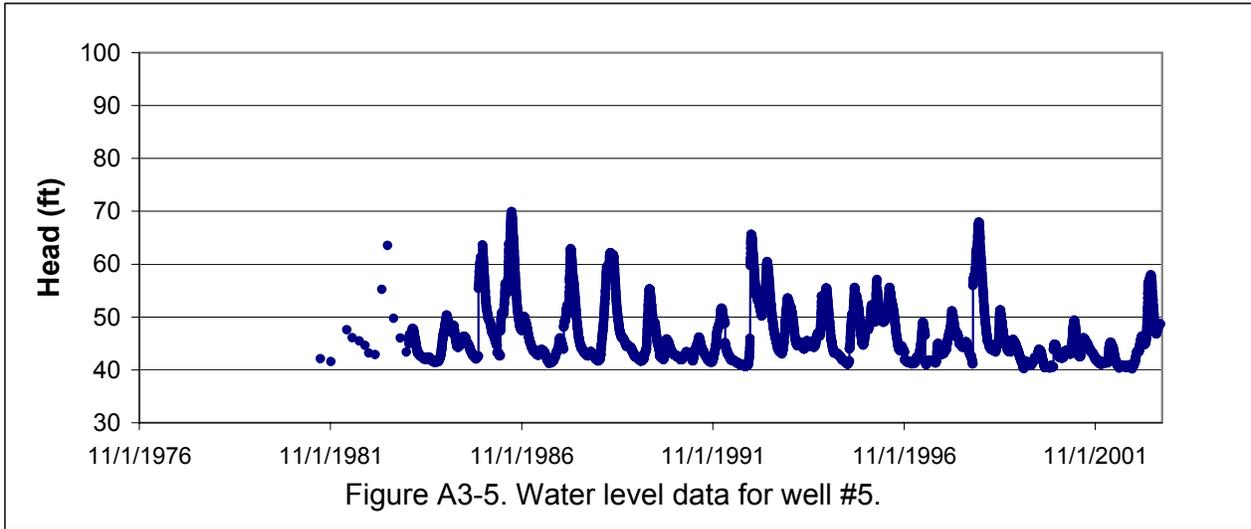
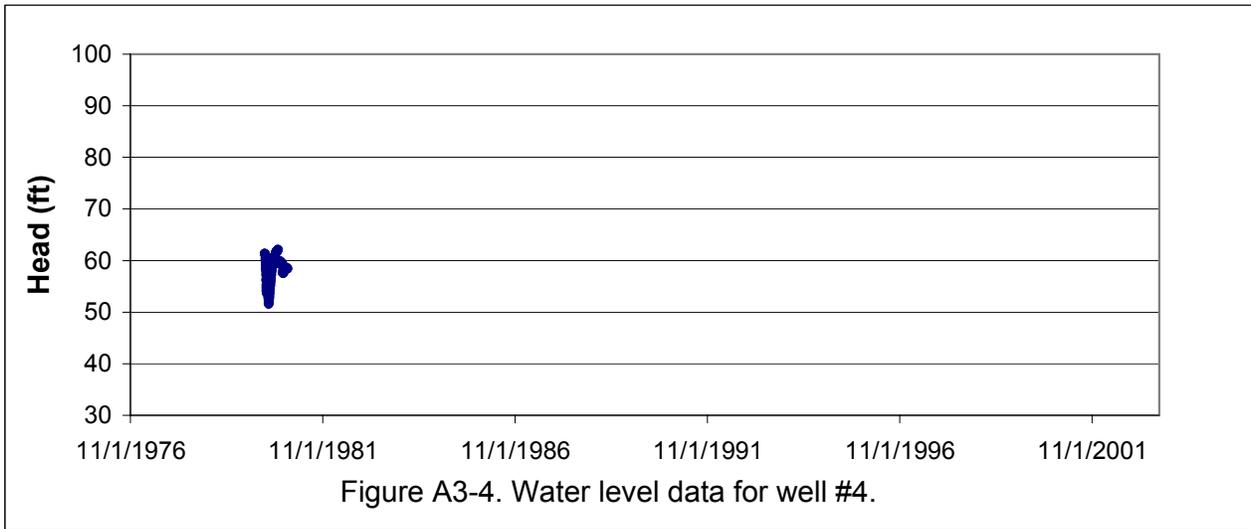
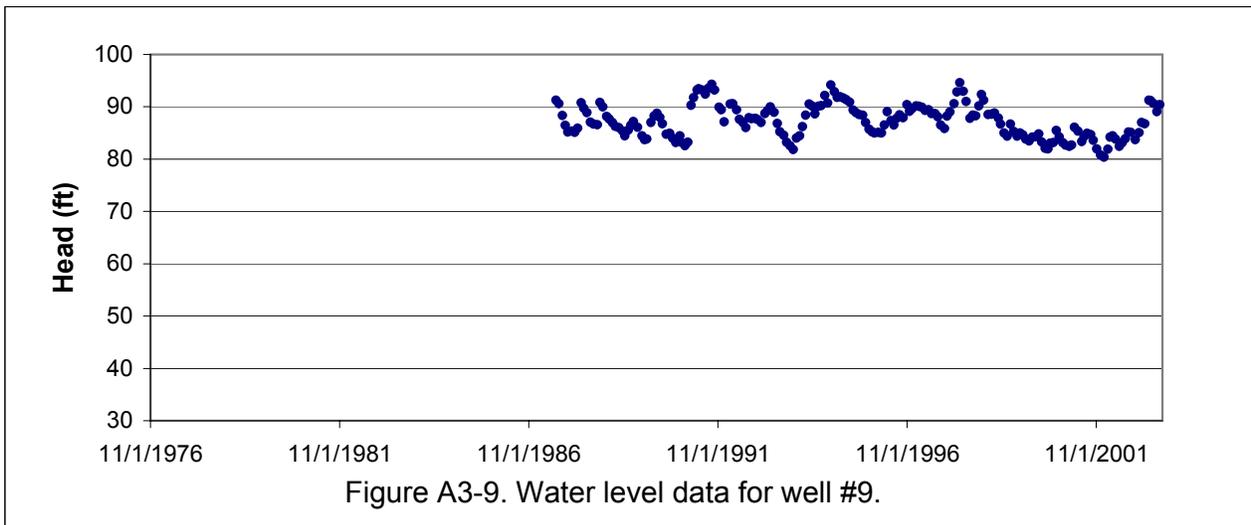
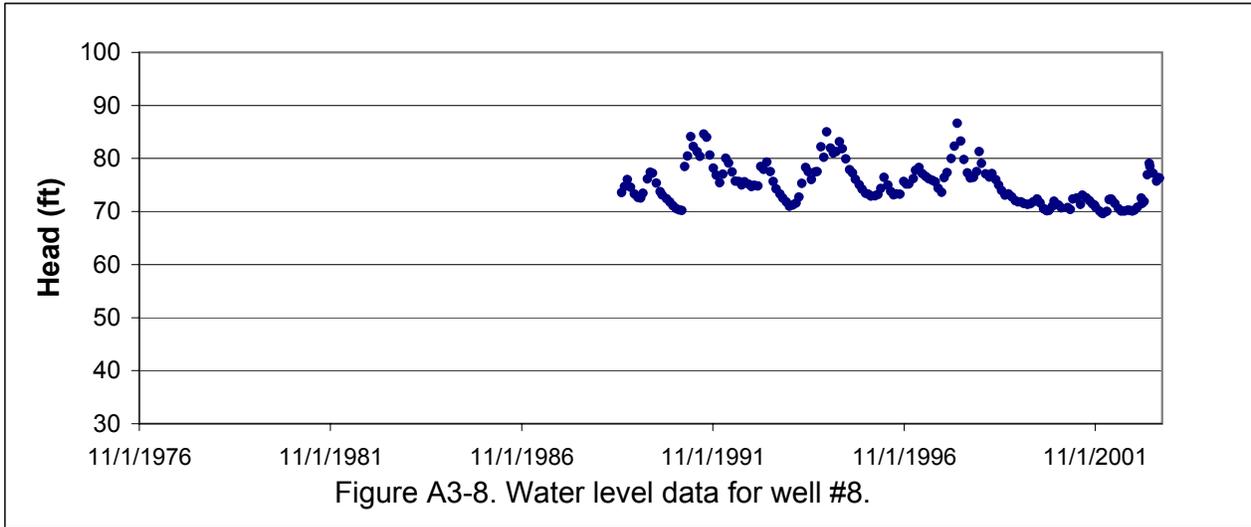
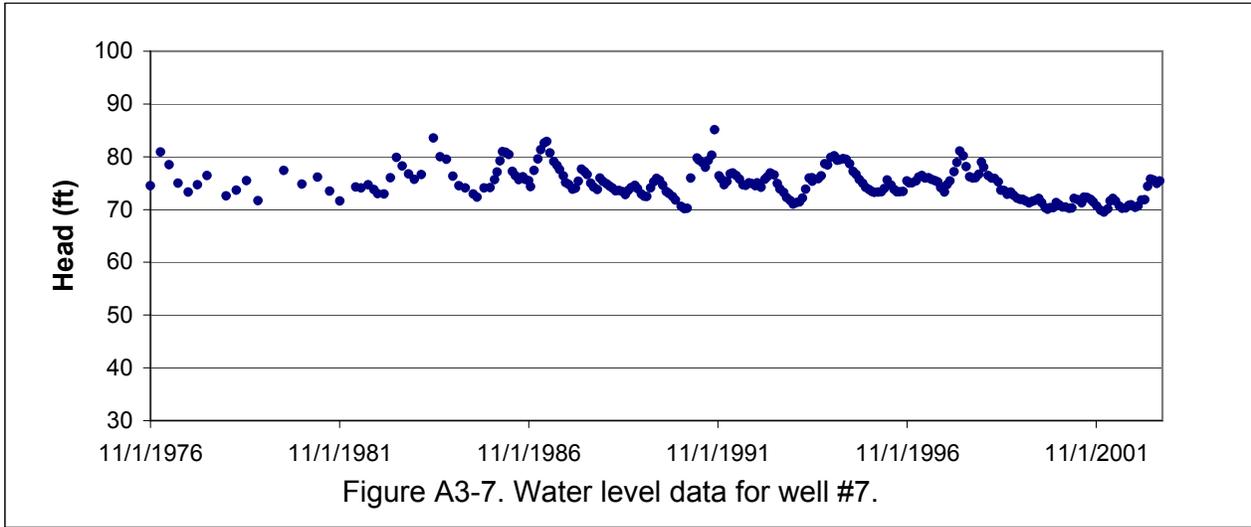


Figure A3-3. Water level data for well #3.





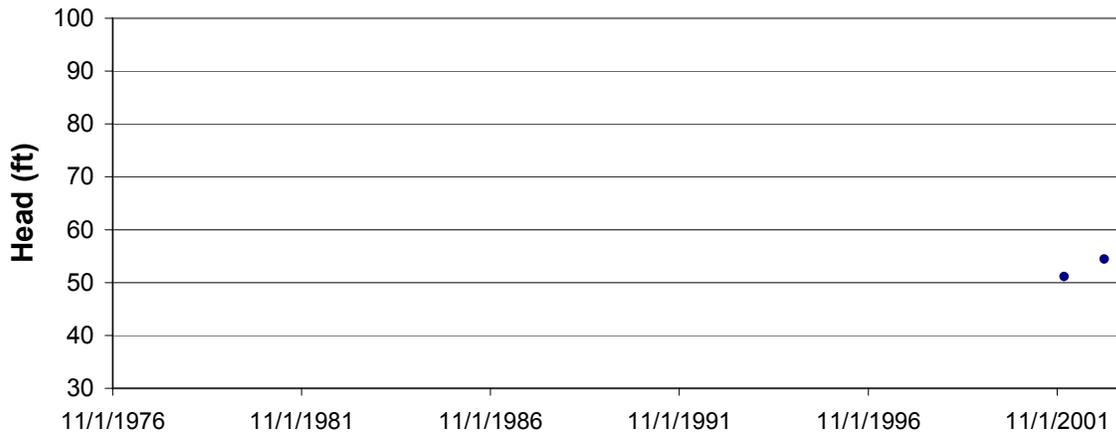


Figure A3-10. Water level data for well #10.

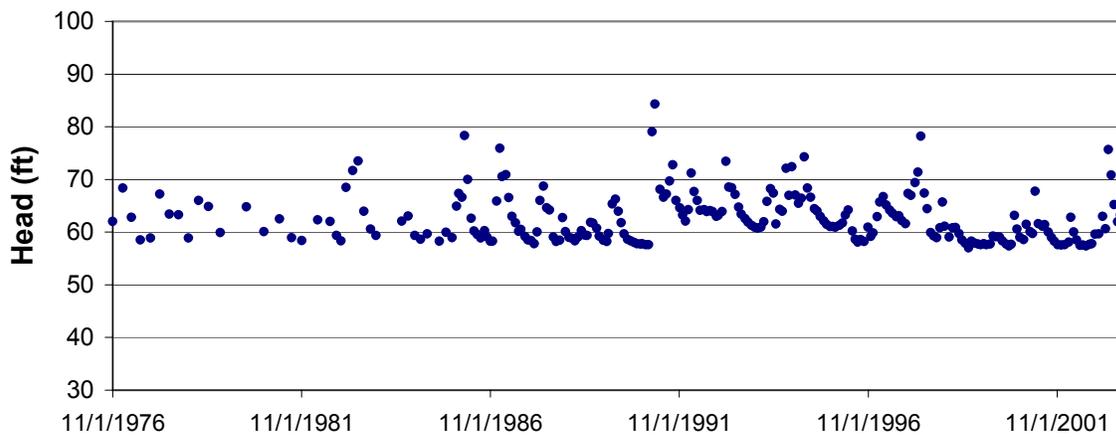


Figure A3-11. Water level data for well #11.

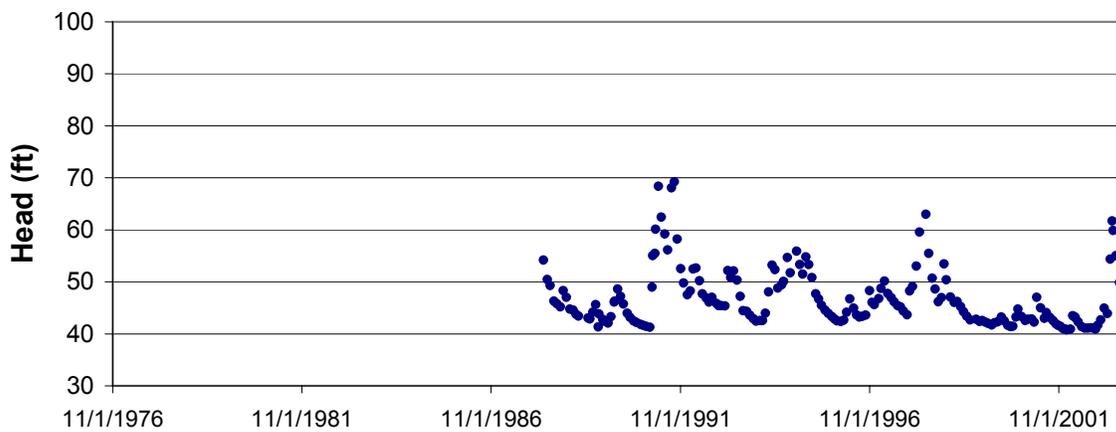


Figure A3-12. Water level data for well #12.

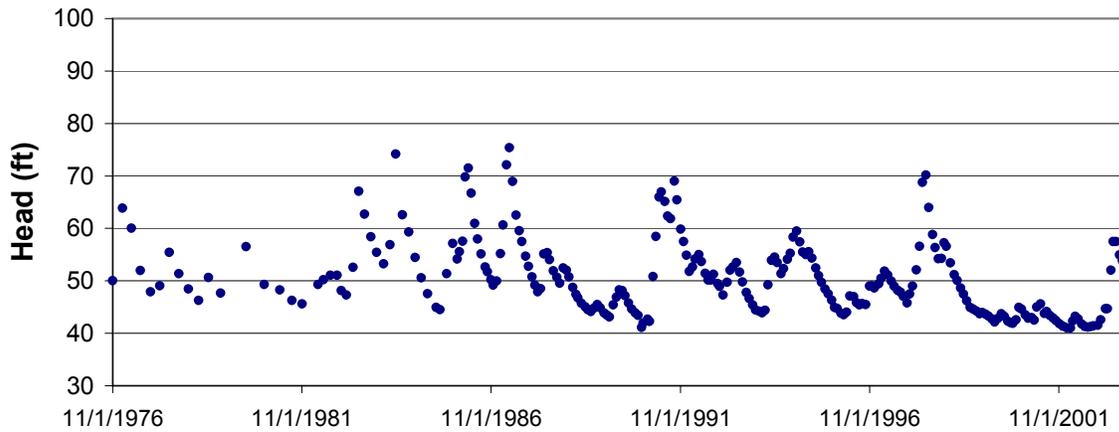


Figure A3-13. Water level data for well #13.

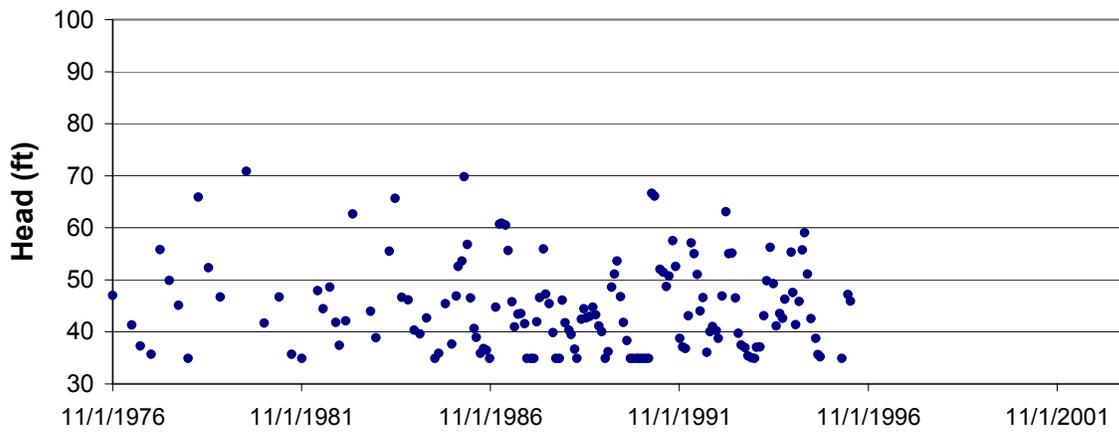


Figure A3-14. Water level data for well #14.

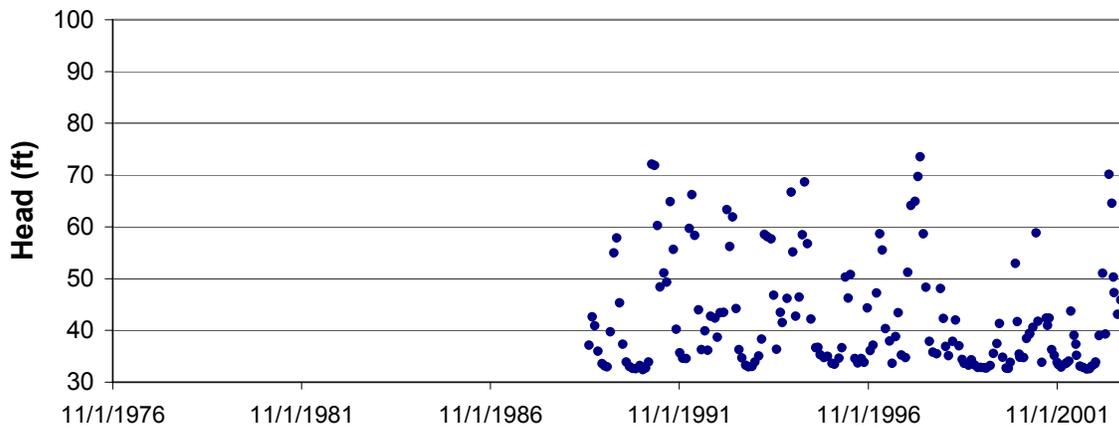
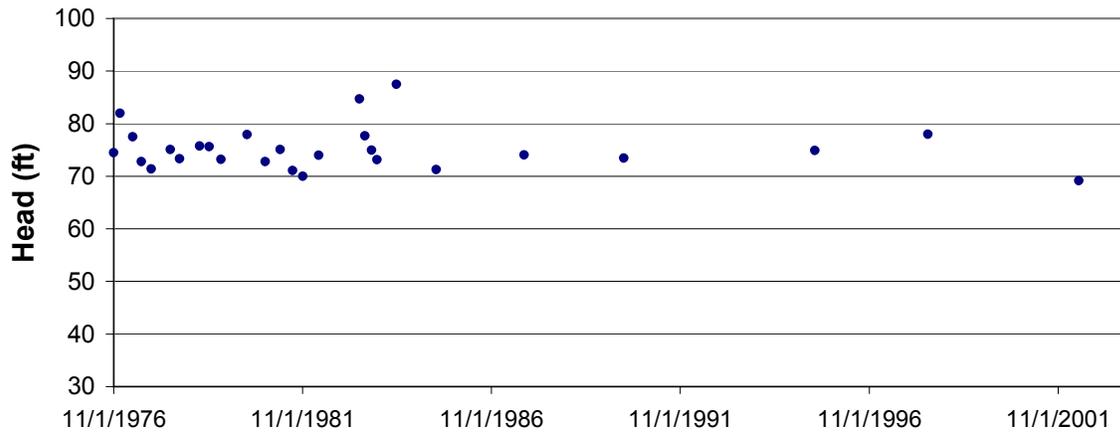
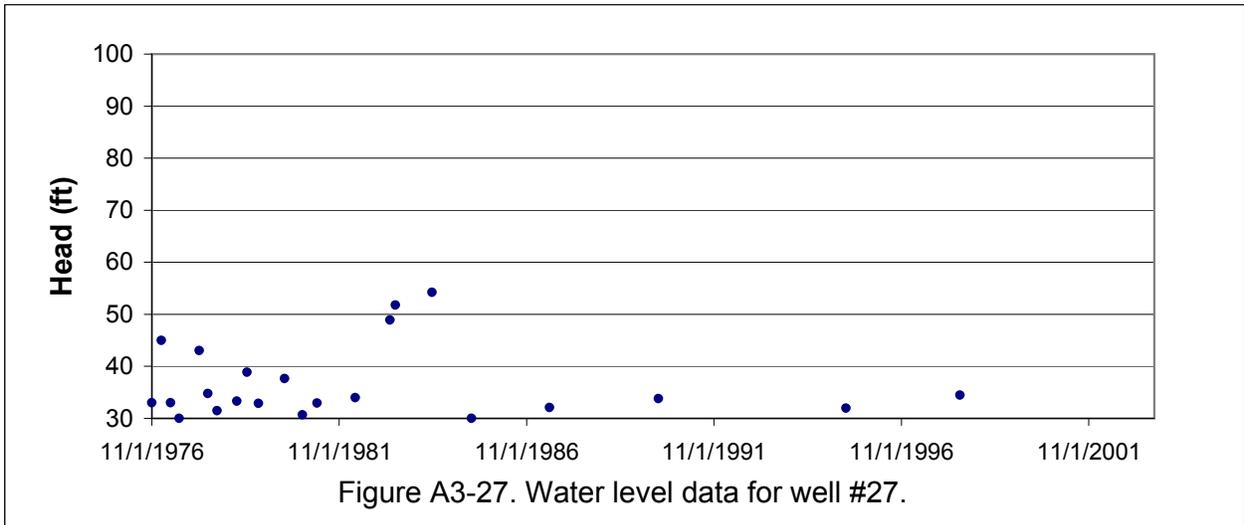
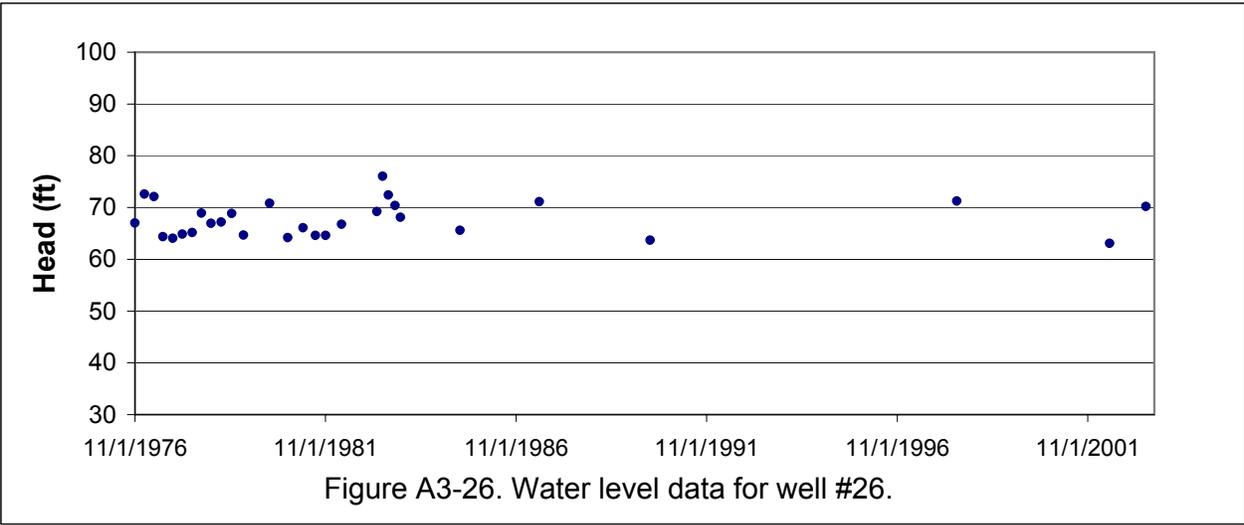
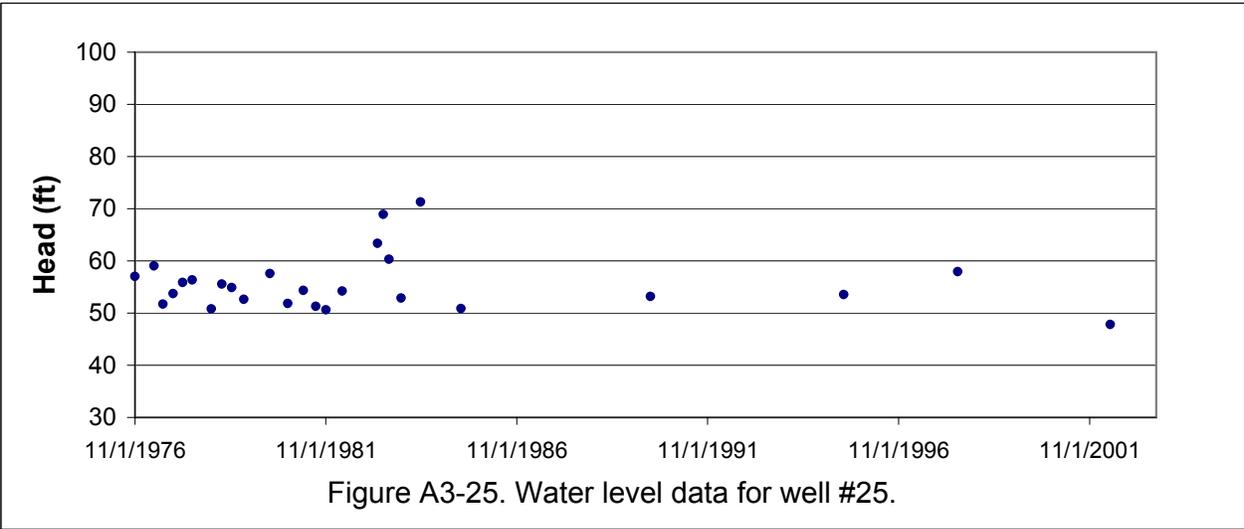


Figure A3-15. Water level data for well #15.

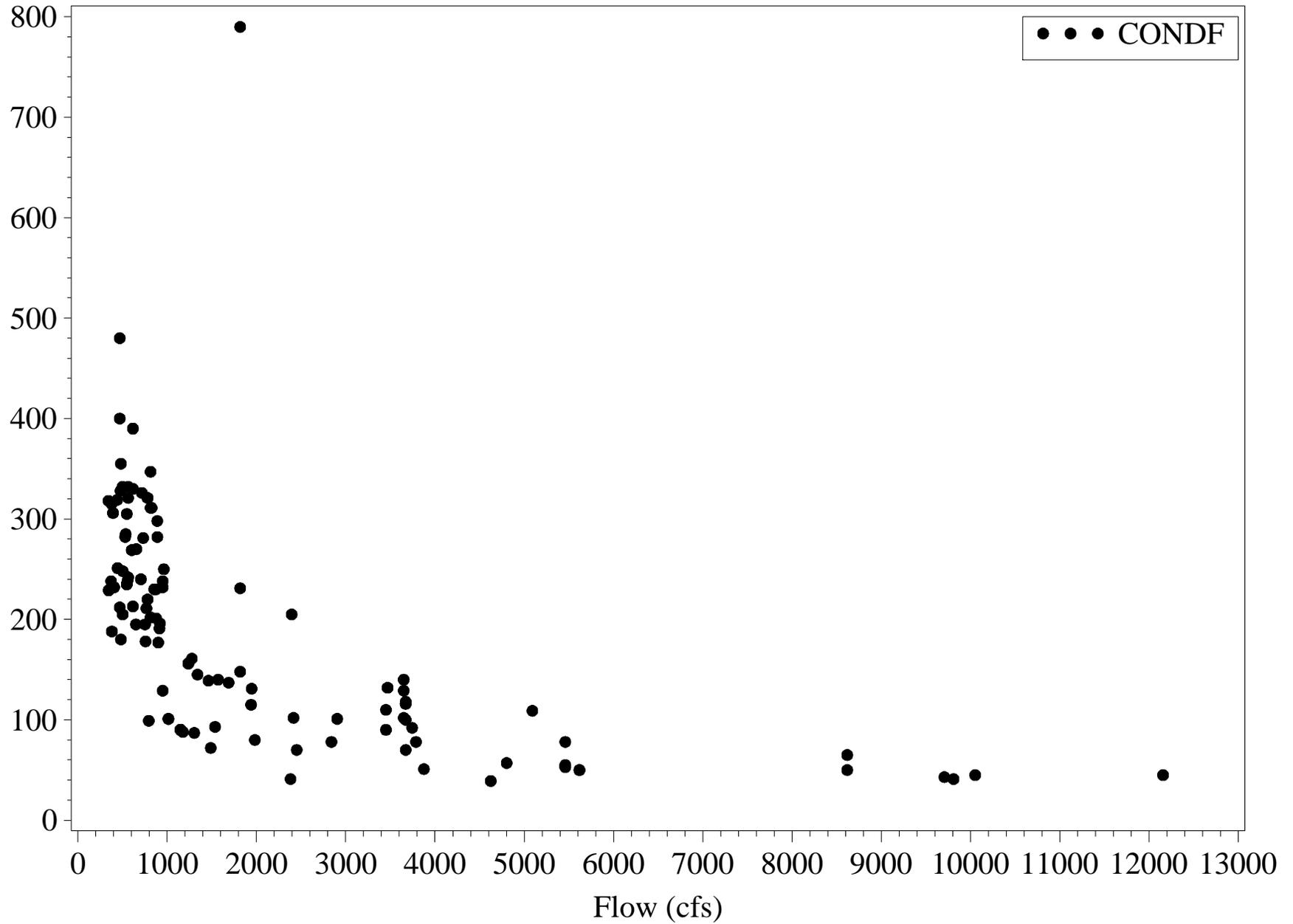




APPENDIX B1

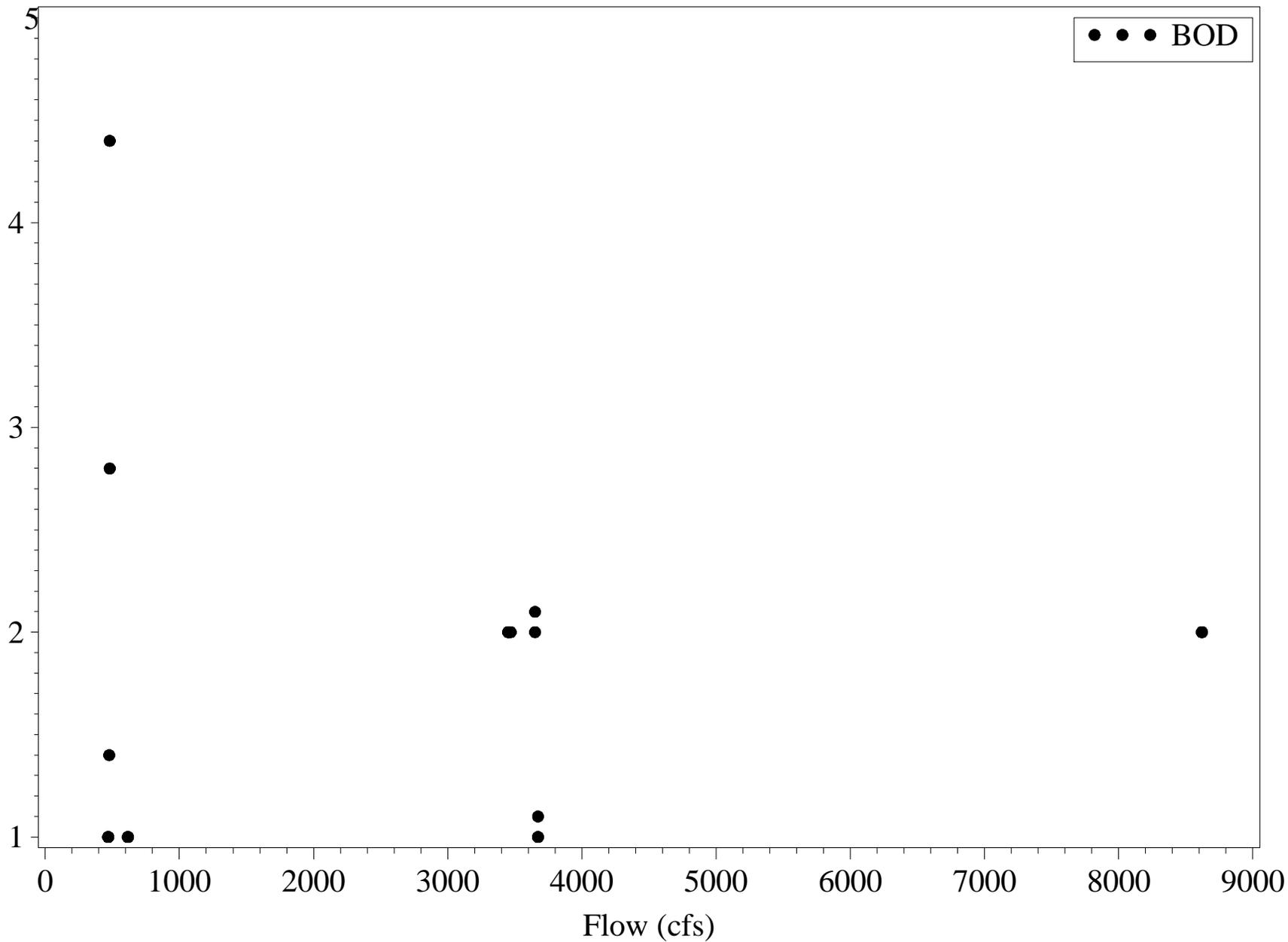
Conductivity vs. Flow

Source: (SRWMD:Benthic Biology and WQ ; Flow : USGS)



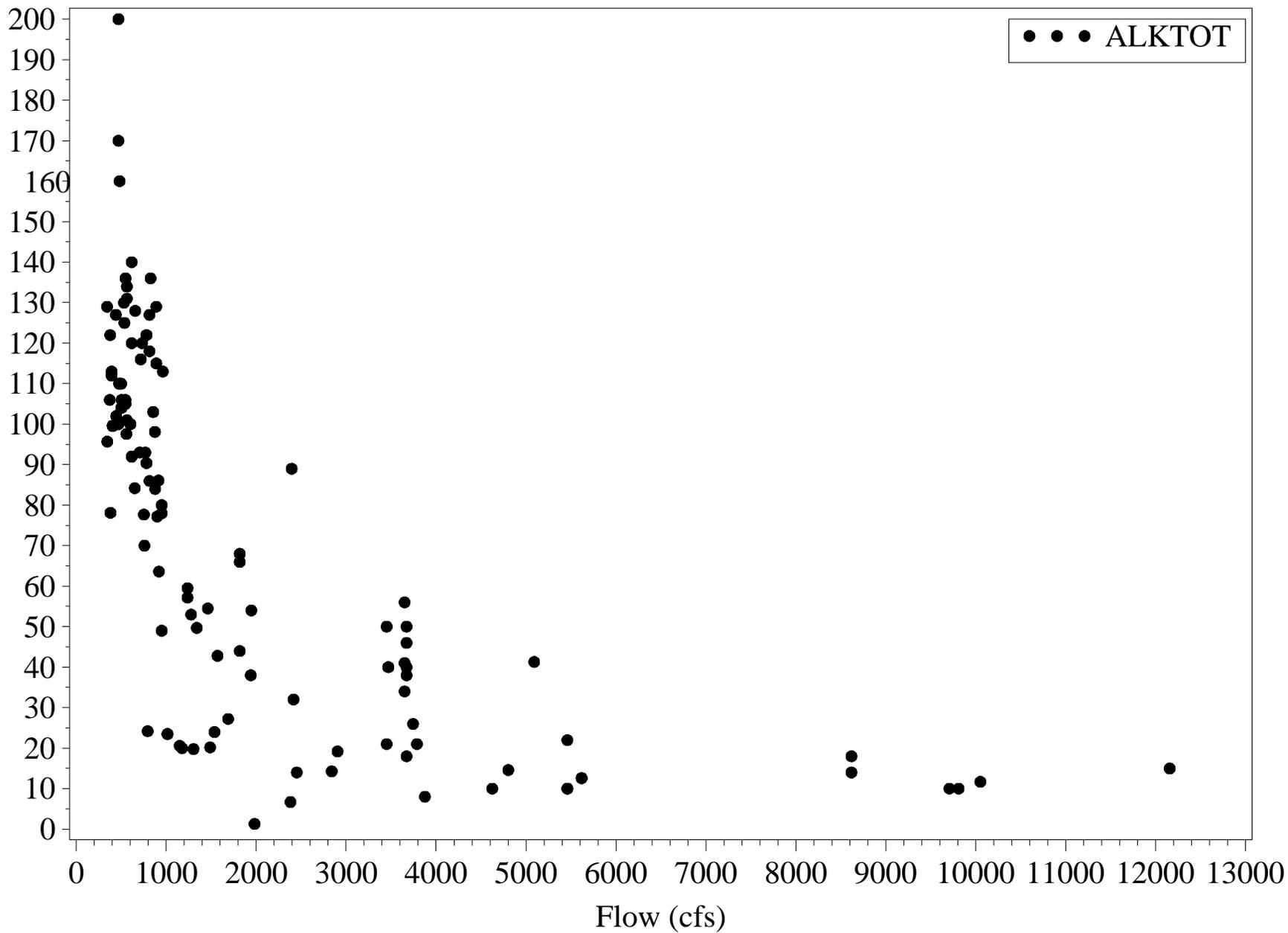
Biological Oxygen Demand vs. Flow

Source: (SRWMD:Benthic Biology and WQ ; Flow : USGS)



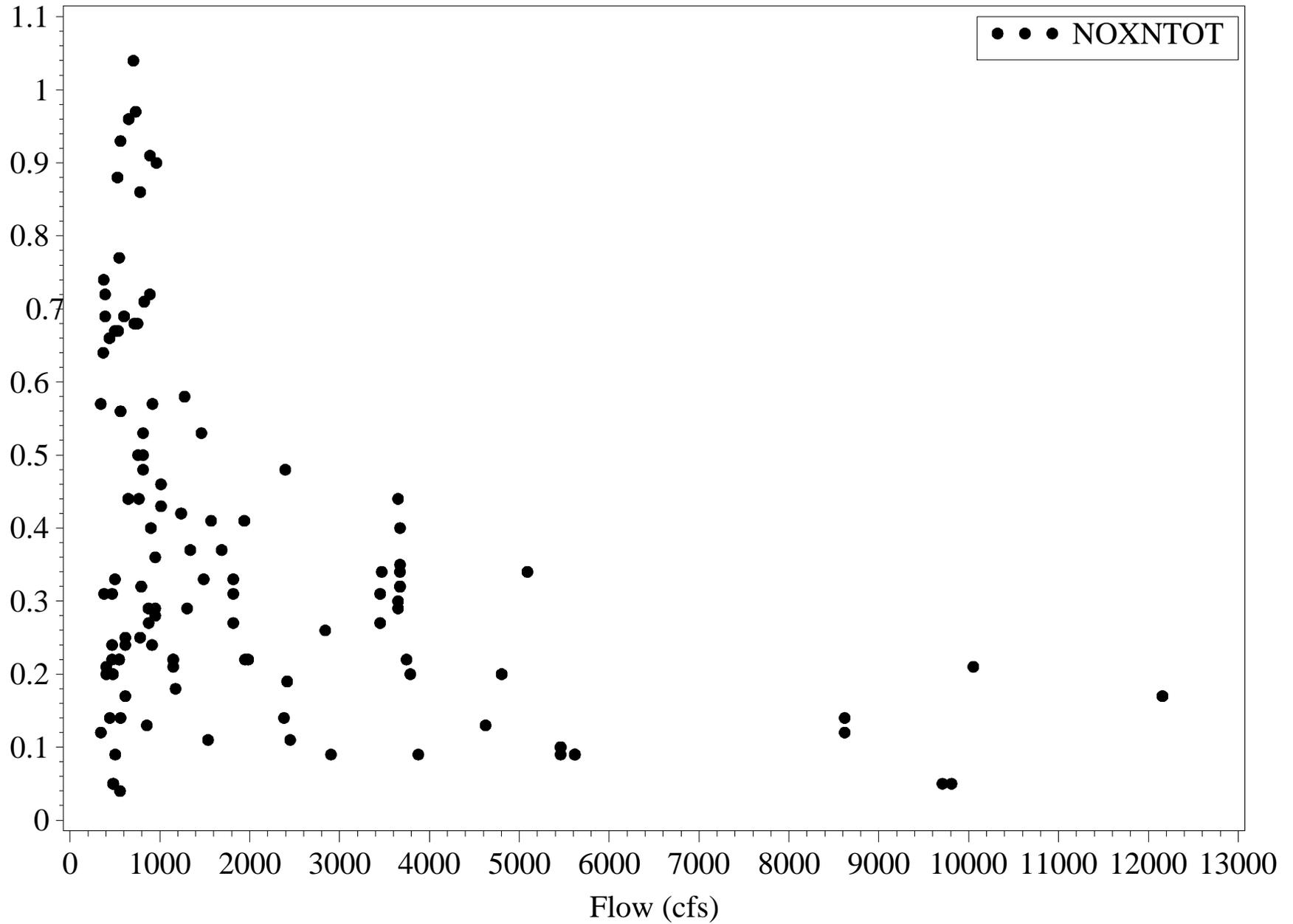
Total Alkalinity vs. Flow

Source: (SRWMD:Benthic Biology and WQ ; Flow : USGS)



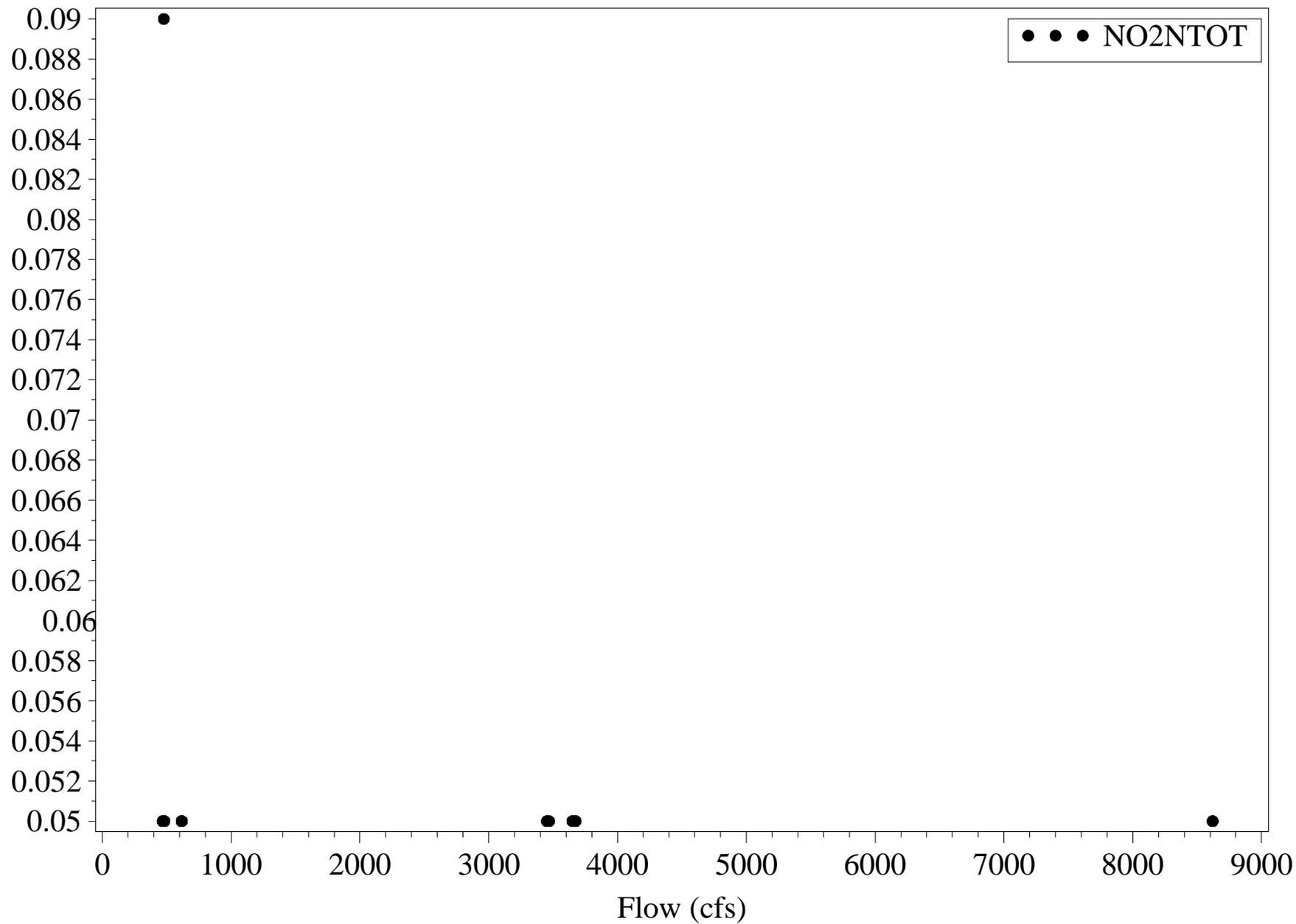
Total Nitrogen Species vs. Flow

Source: (SRWMD:Benthic Biology and WQ ; Flow : USGS)



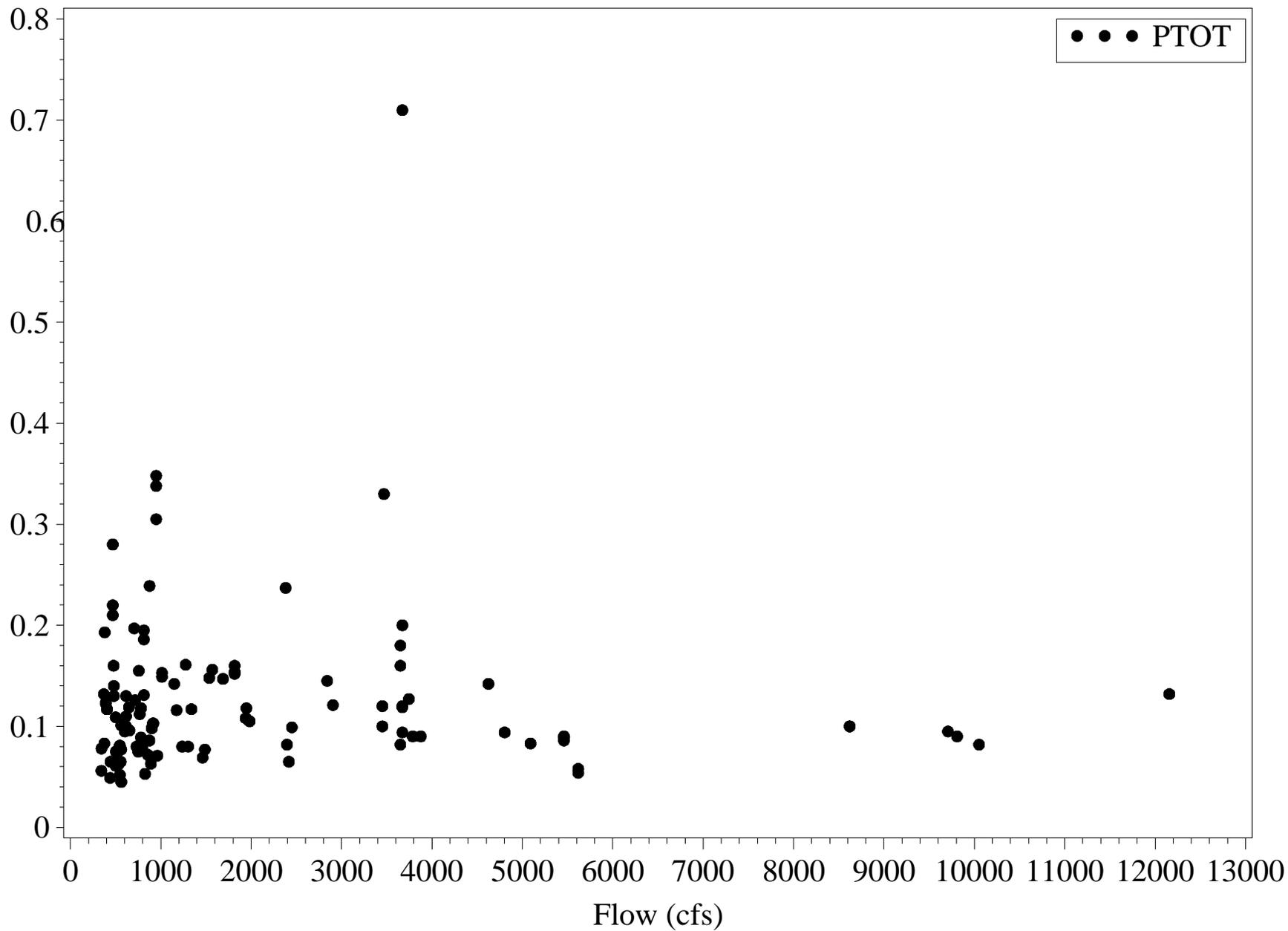
Total Nitrite vs. Flow

Source: (SRWMD:Benthic Biology and WQ ; Flow : USGS)



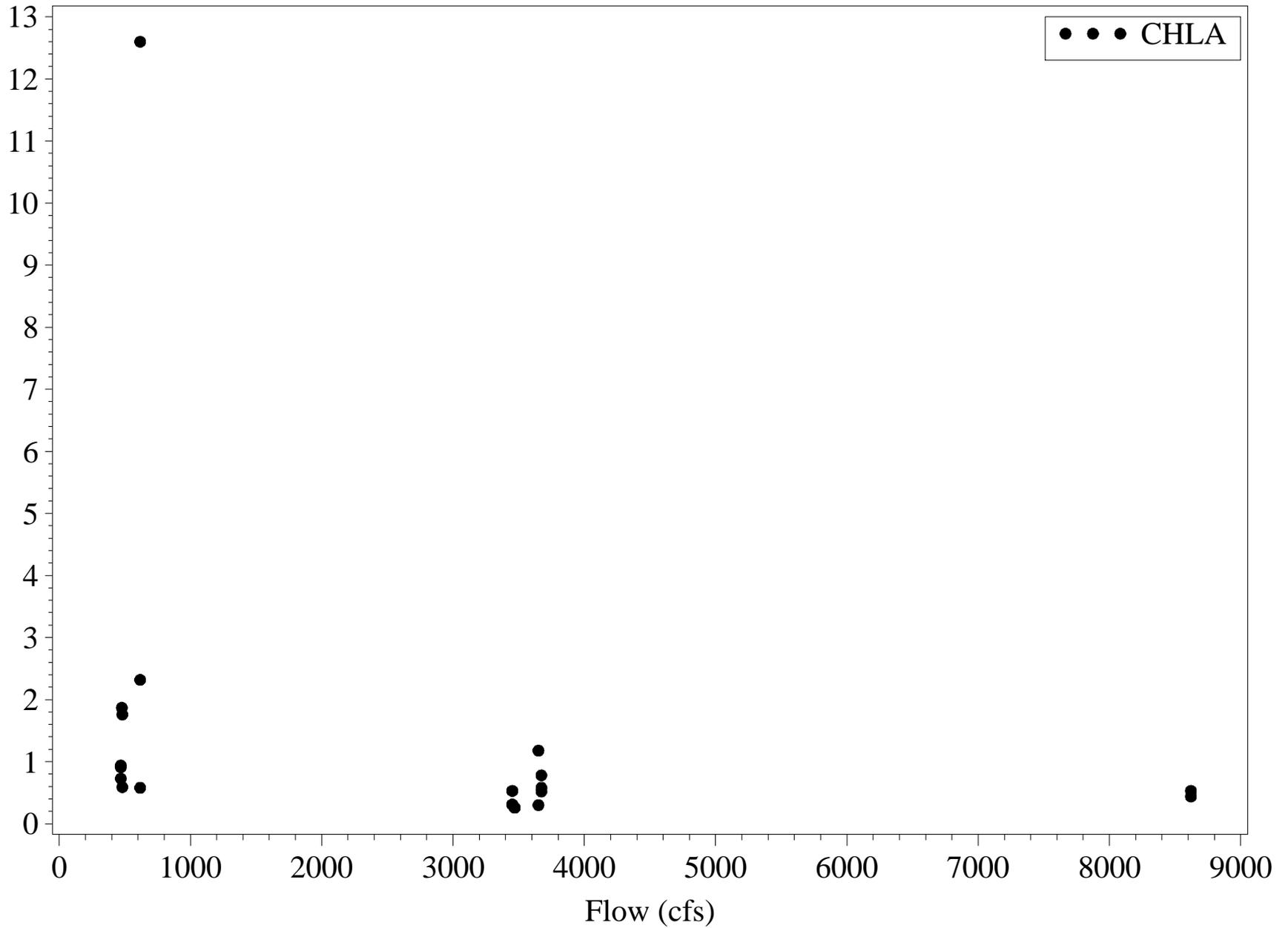
Total Phosphate vs. Flow

Source: (SRWMD:Benthic Biology and WQ ; Flow : USGS)



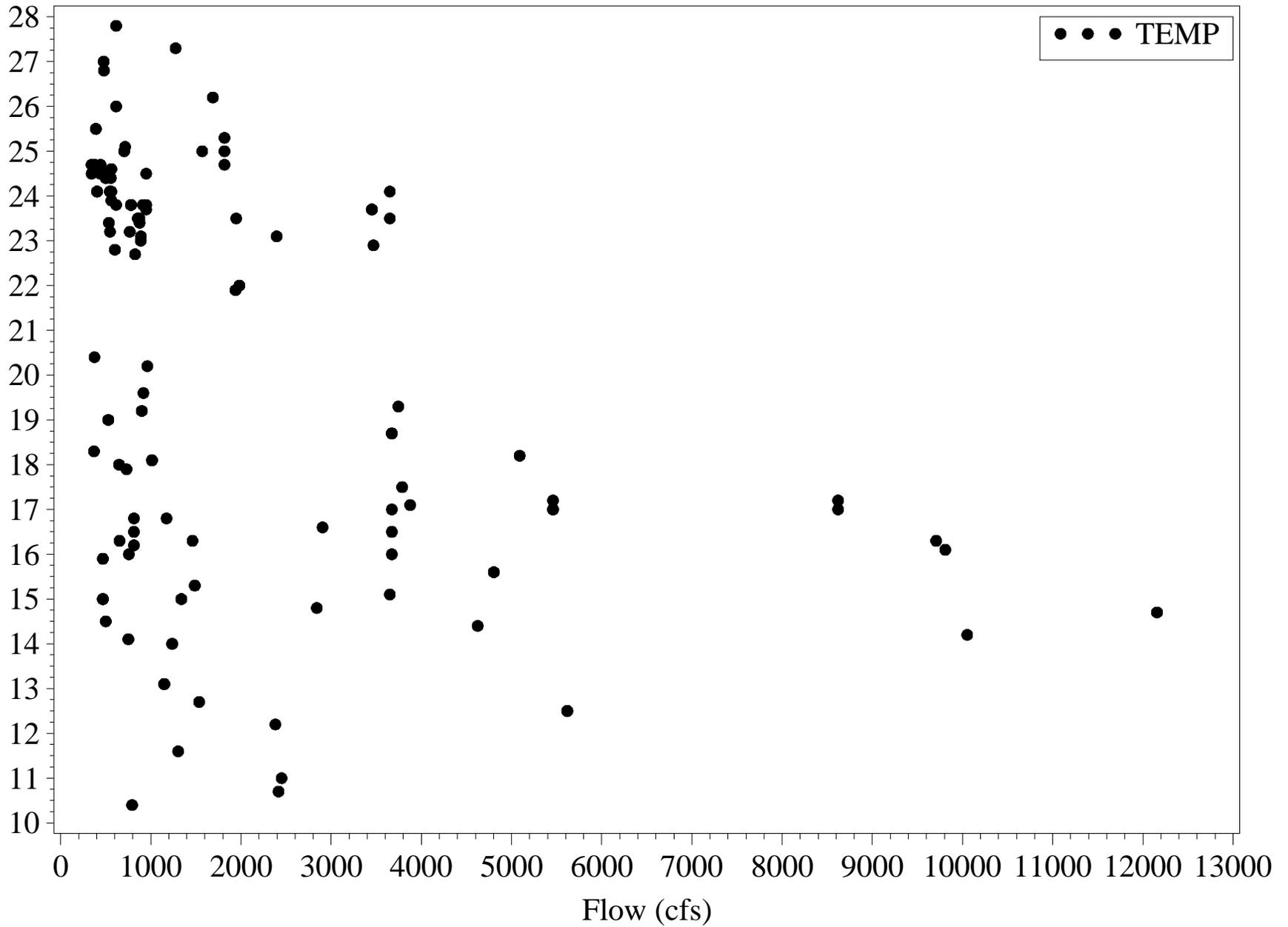
Chlorophyll a vs. Flow

Source: (SRWMD:Benthic Biology and WQ ; Flow : USGS)



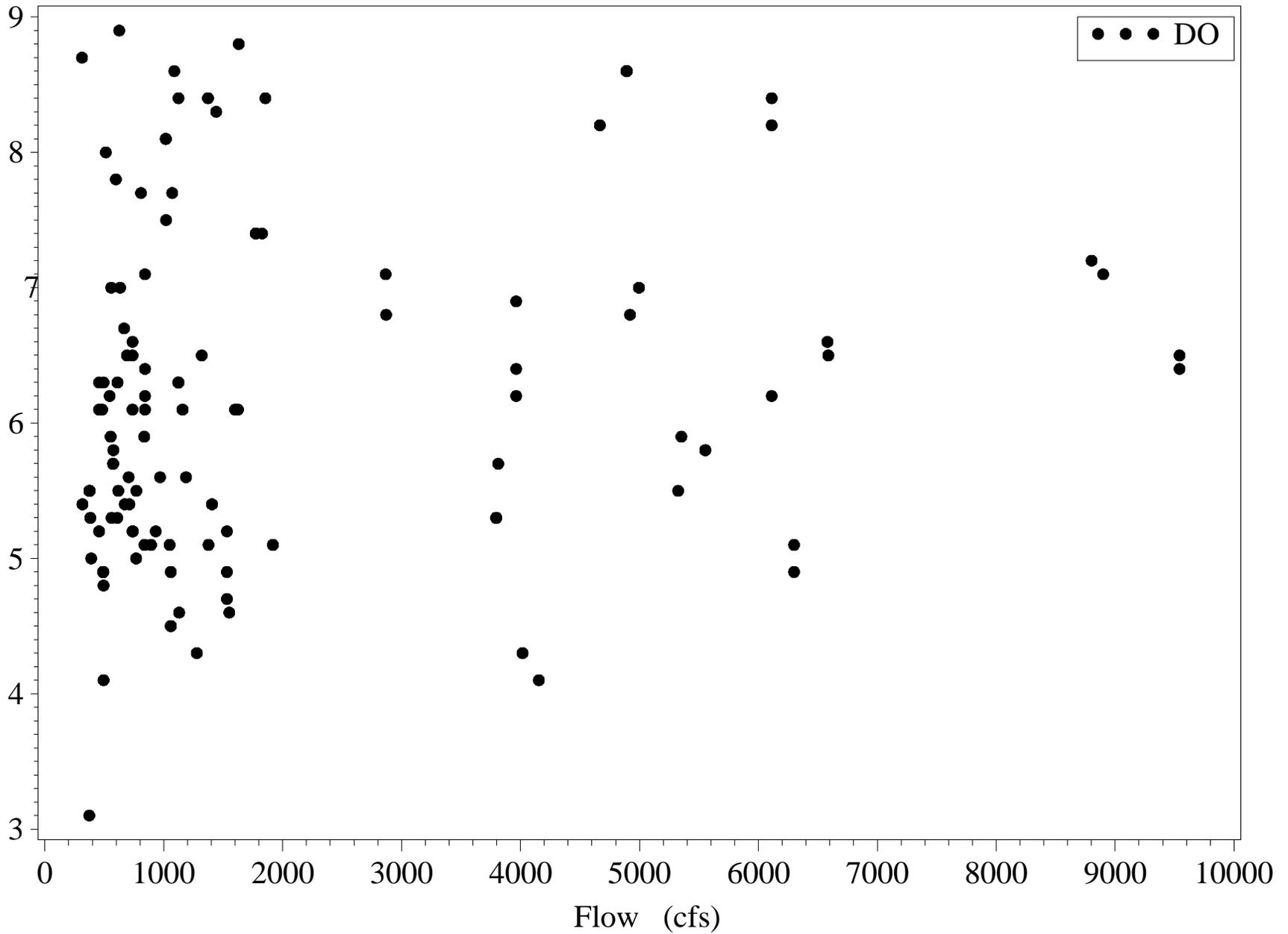
Temperature vs. Flow

Source: (SRWMD:Benthic Biology and WQ ; Flow : USGS)



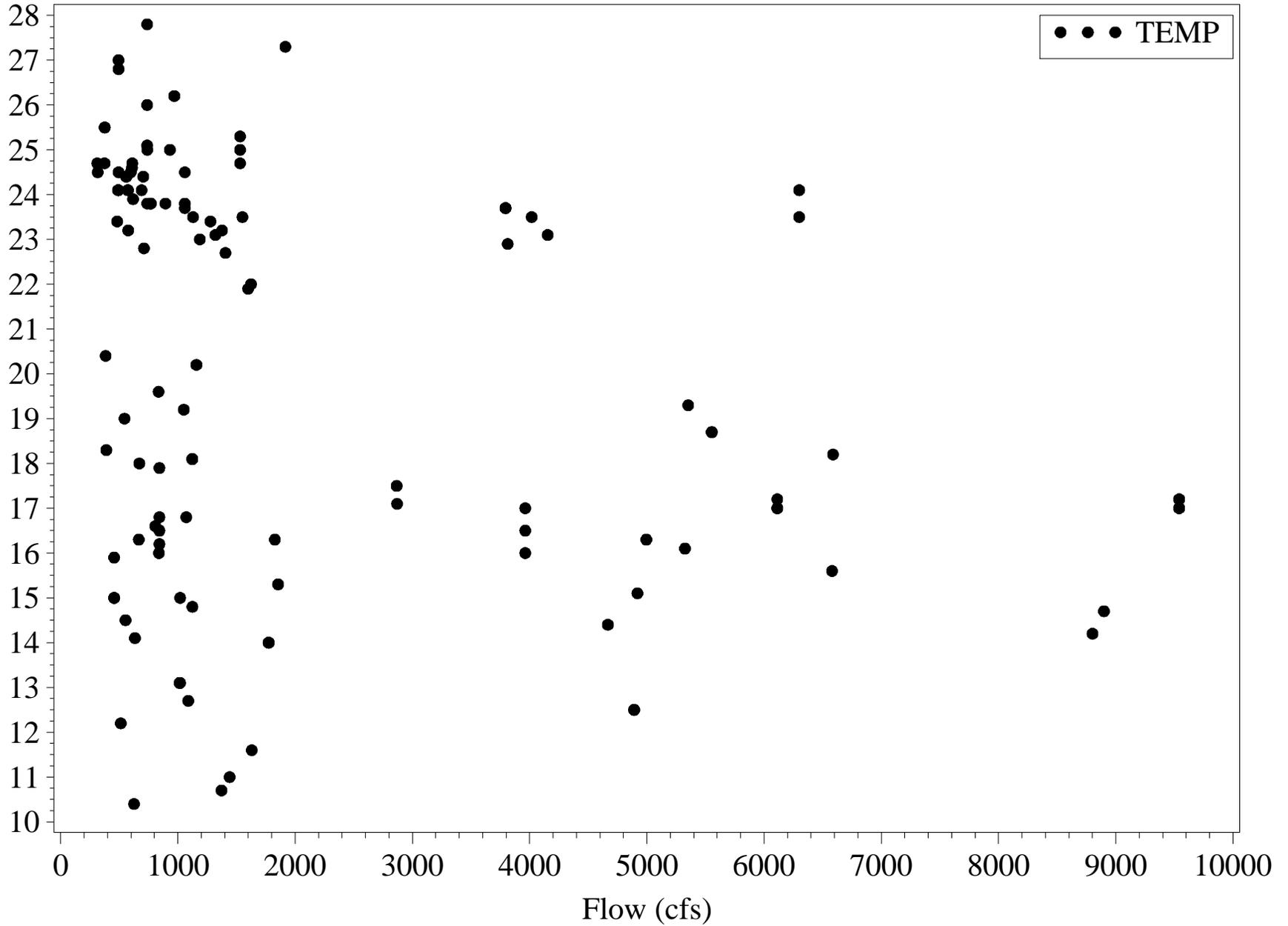
Dissolved Oxygen vs. Flow (Geo Mean Lee)

Source: (SRWMD:Benthic Biology and WQ ; Flow : USGS)



Temperature vs. Flow (Geo Mean Lee)

Source: (SRWMD:Benthic Biology and WQ ; Flow : USGS)



APPENDIX B2

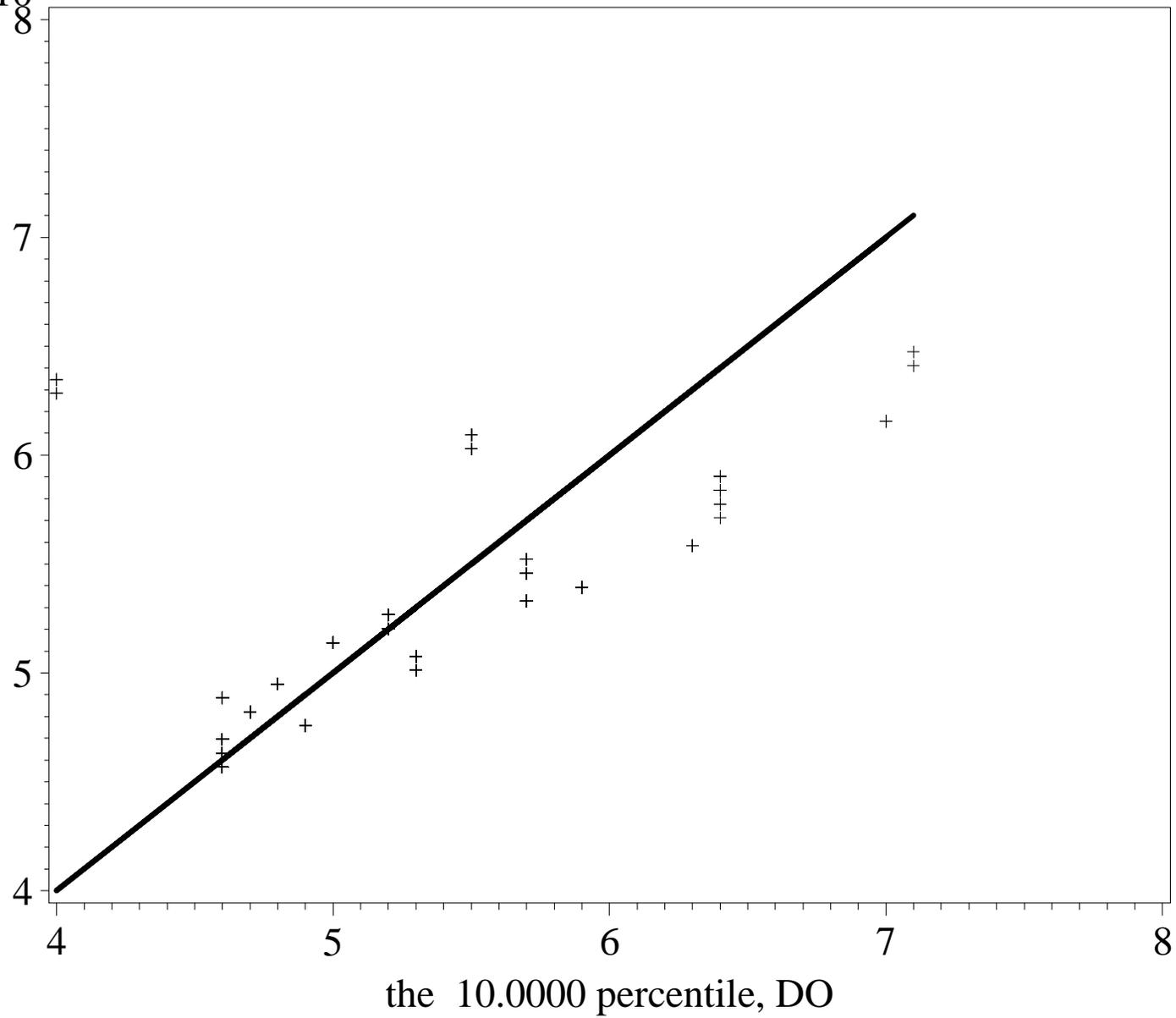
The REG Procedure
Model: MODEL1
Dependent Variable: do10 the 10.0000 percentile, DO

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	105.85705	105.85705	1524.47	<.0001
Error	911	63.25846	0.06944		
Corrected Total	912	169.11551			

Root MSE	0.26351	R-Square	0.6259
Dependent Mean	4.84283	Adj R-Sq	0.6255
Coeff Var	5.44128		

Parameter Estimates						
Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	Intercept	1	4.50459	0.01229	366.46	<.0001
midpoint		1	0.00015882	0.00000407	39.04	<.0001

Predicted Value of do10

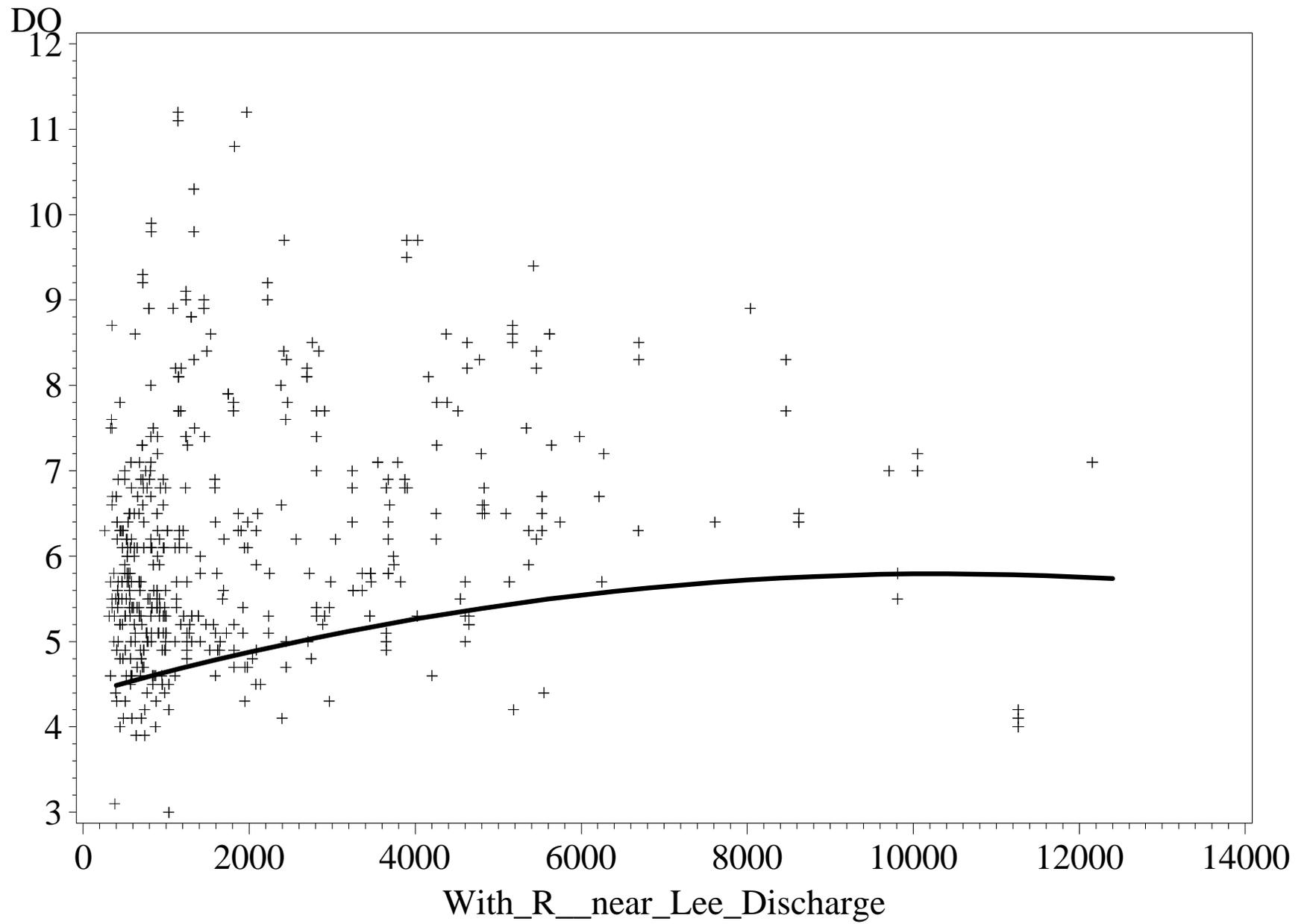


The REG Procedure
Model: MODEL1
Dependent Variable: do10 the 10.0000 percentile, DO

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	114.21585	57.10792	946.60	<.0001
Error	910	54.89966	0.06033		
Corrected Total	912	169.11551			

Root MSE	0.24562	R-Square	0.6754
Dependent Mean	4.84283	Adj R-Sq	0.6747
Coeff Var	5.07184		

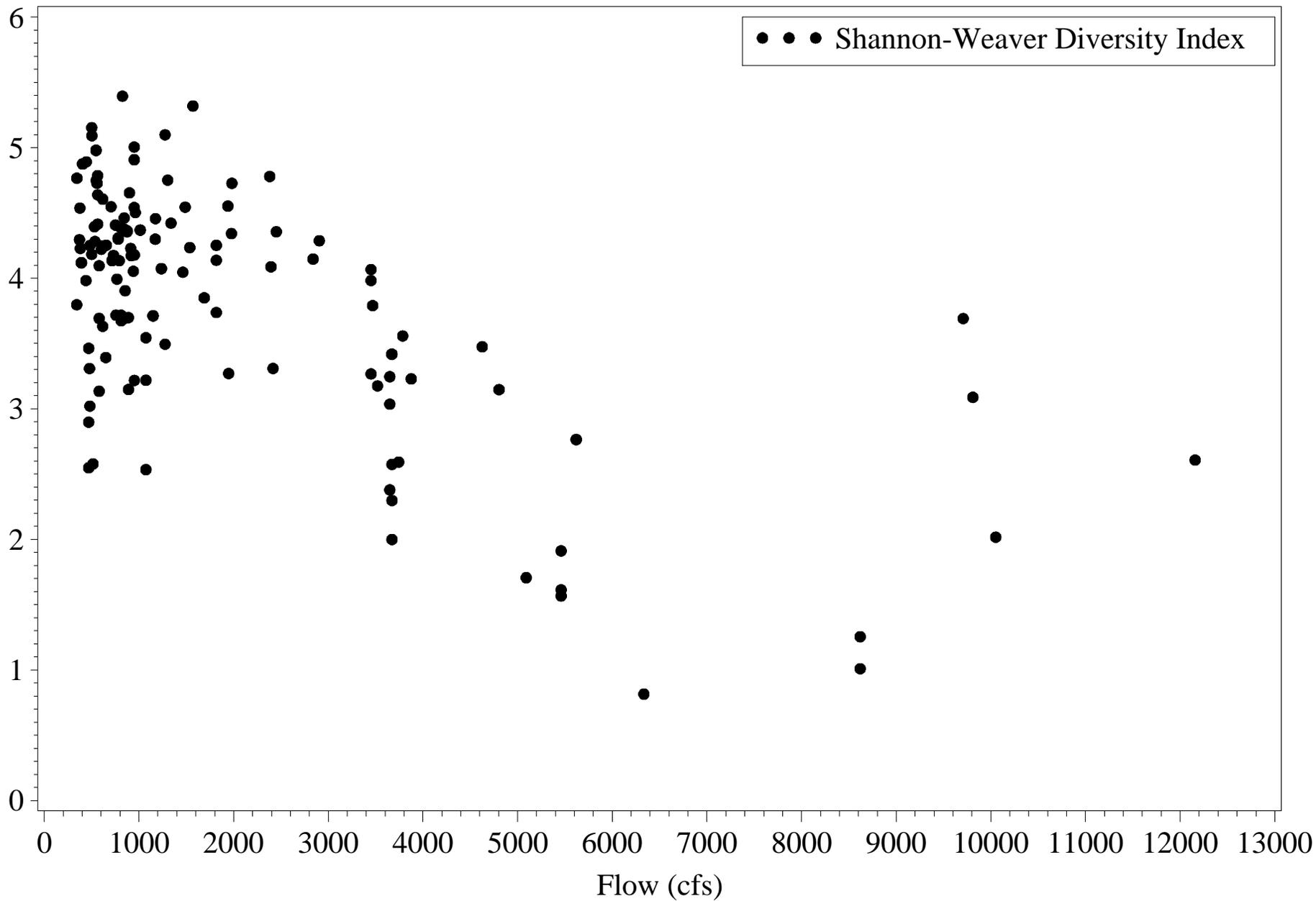
Parameter Estimates						
Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	Intercept	1	4.38174	0.01550	282.72	<.0001
midpoint		1	0.00027324	0.00001043	26.19	<.0001
midpointsq		1	-1.32315E-8	1.124089E-9	-11.77	<.0001



APPENDIX B3

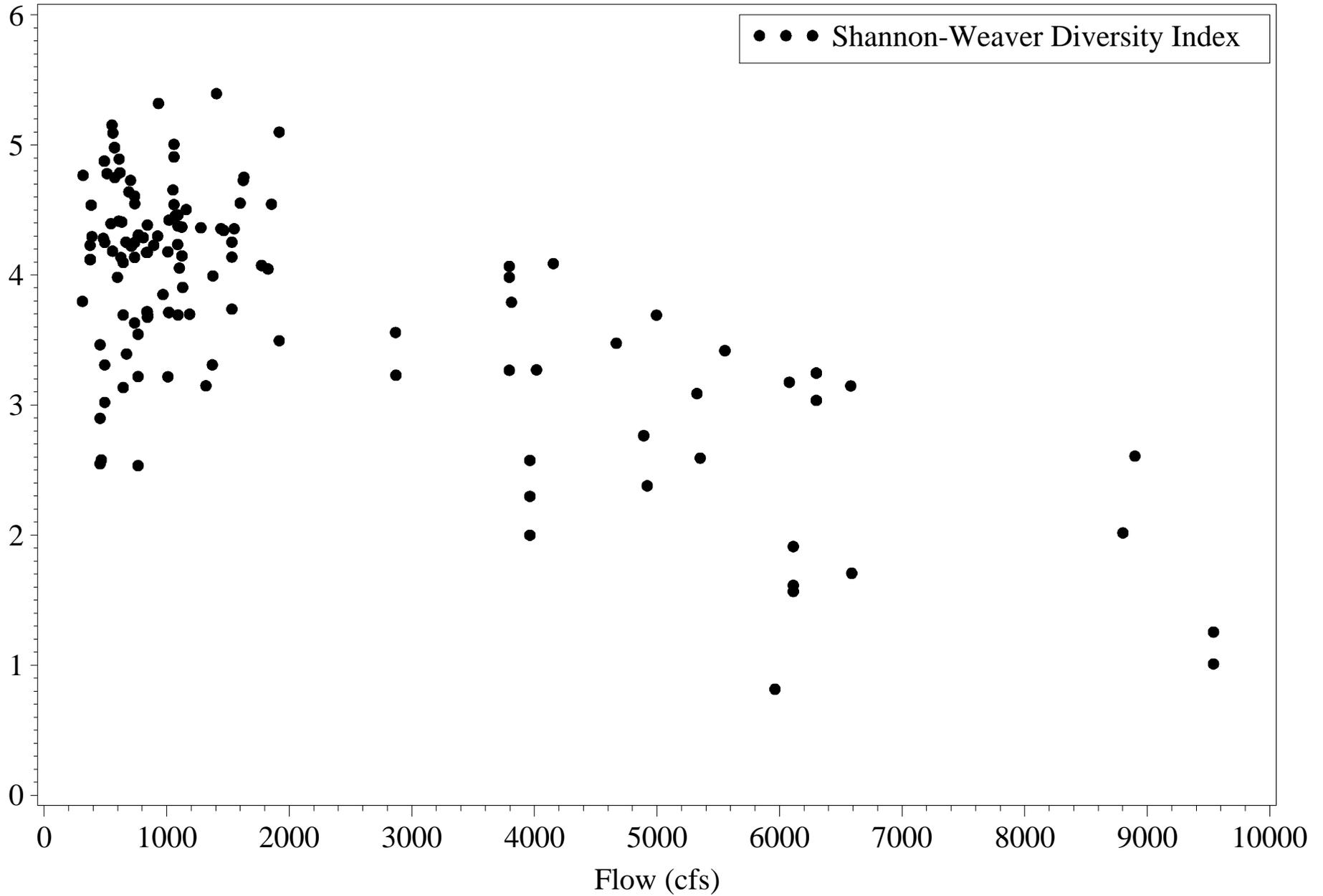
Shannon Diversity Index vs. Flow

Source: (SRWMD:Benthic Biology and WQ ; Flow : USGS)



Shannon Diversity Index vs. Flow (Geo Mean Lee)

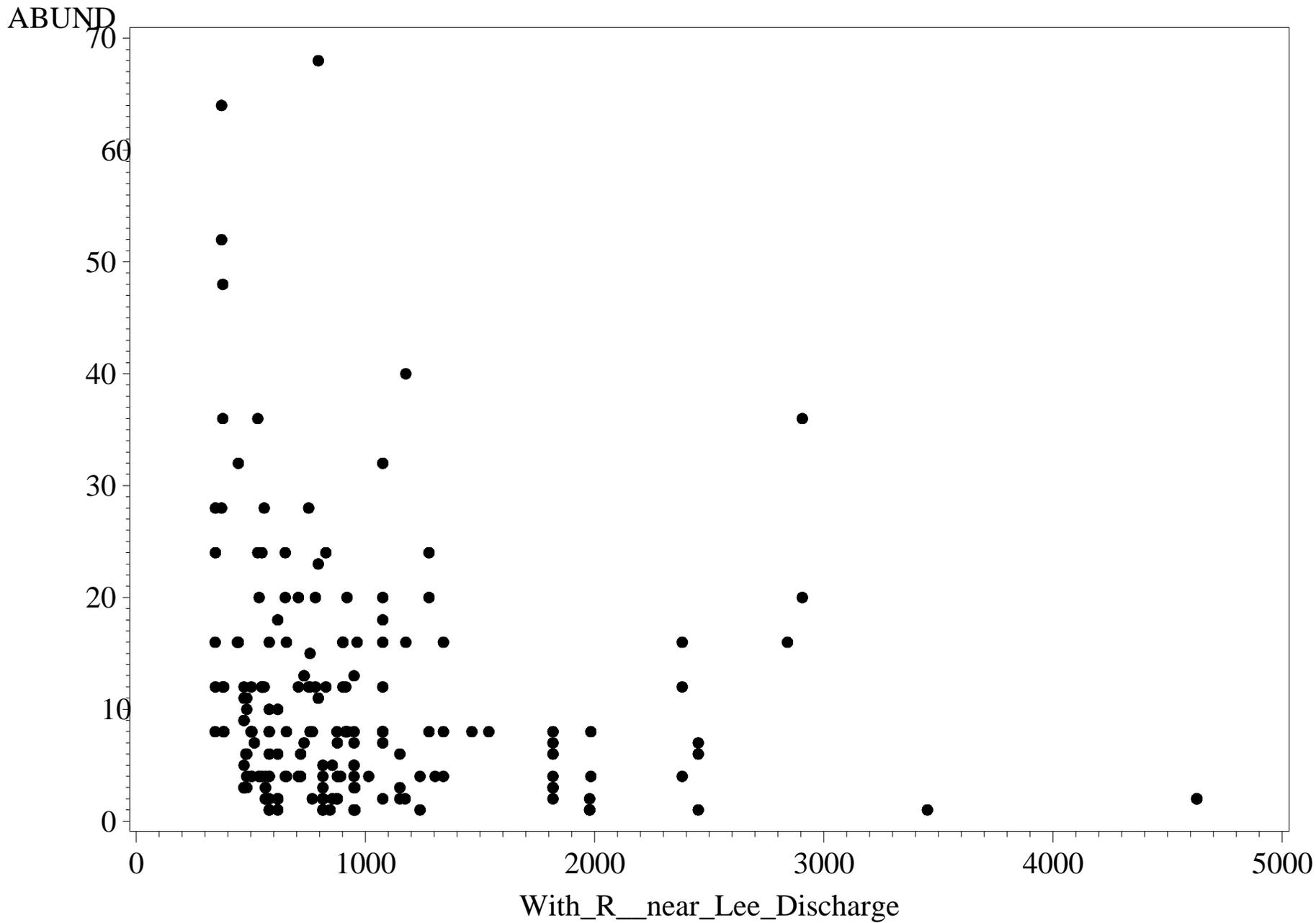
Source: (SRWMD:Benthic Biology and WQ ; Flow : USGS)



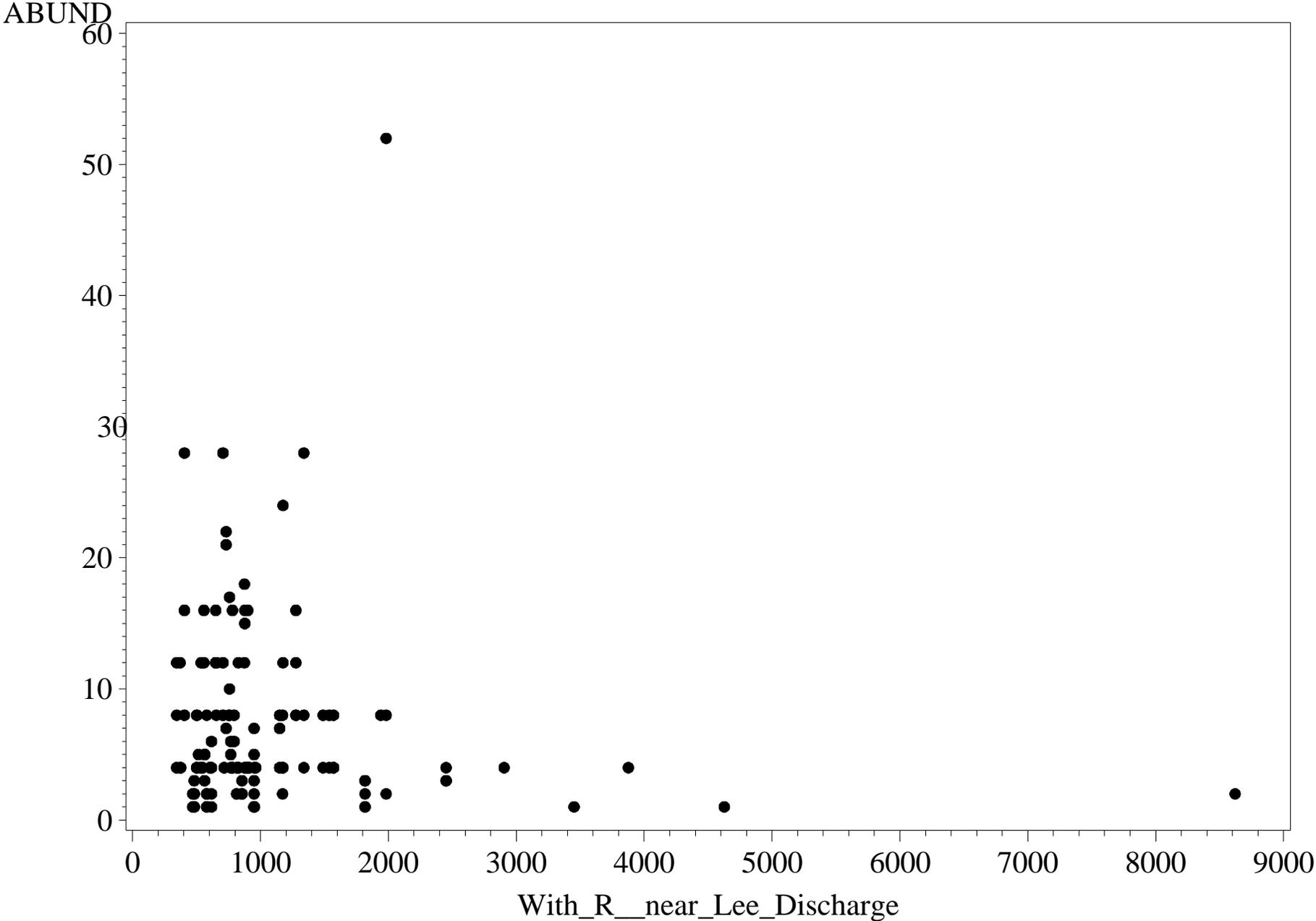
APPENDIX C1

Individual Benthic Species vs. Estimated Withlacoochee Flow (at Lee)

name=ABLABESMYIA MALLOCHI

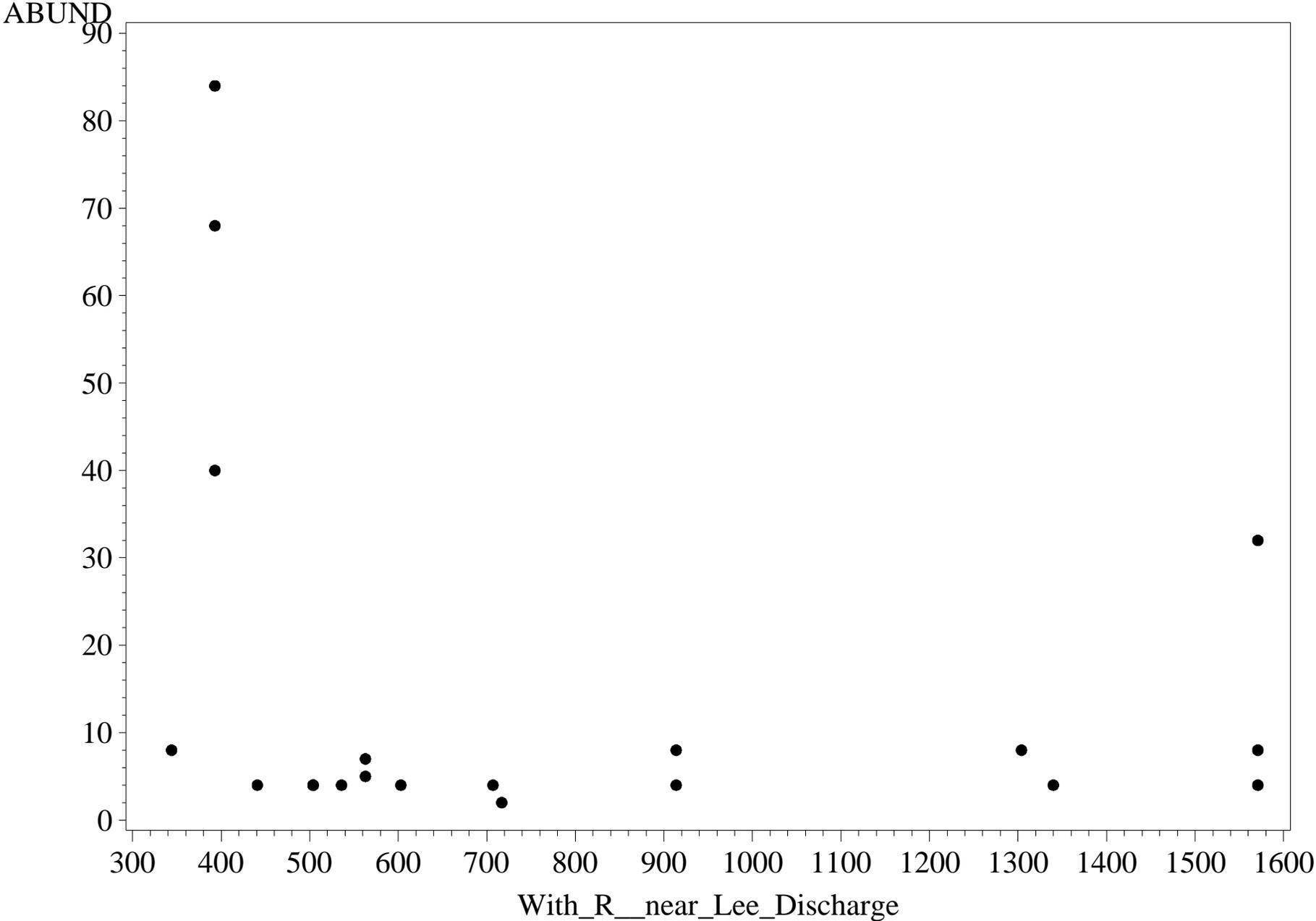


Individual Benthic Species vs. Estimated Withlacoochee Flow (at Lee)
name=ABLABESMYIA SP.

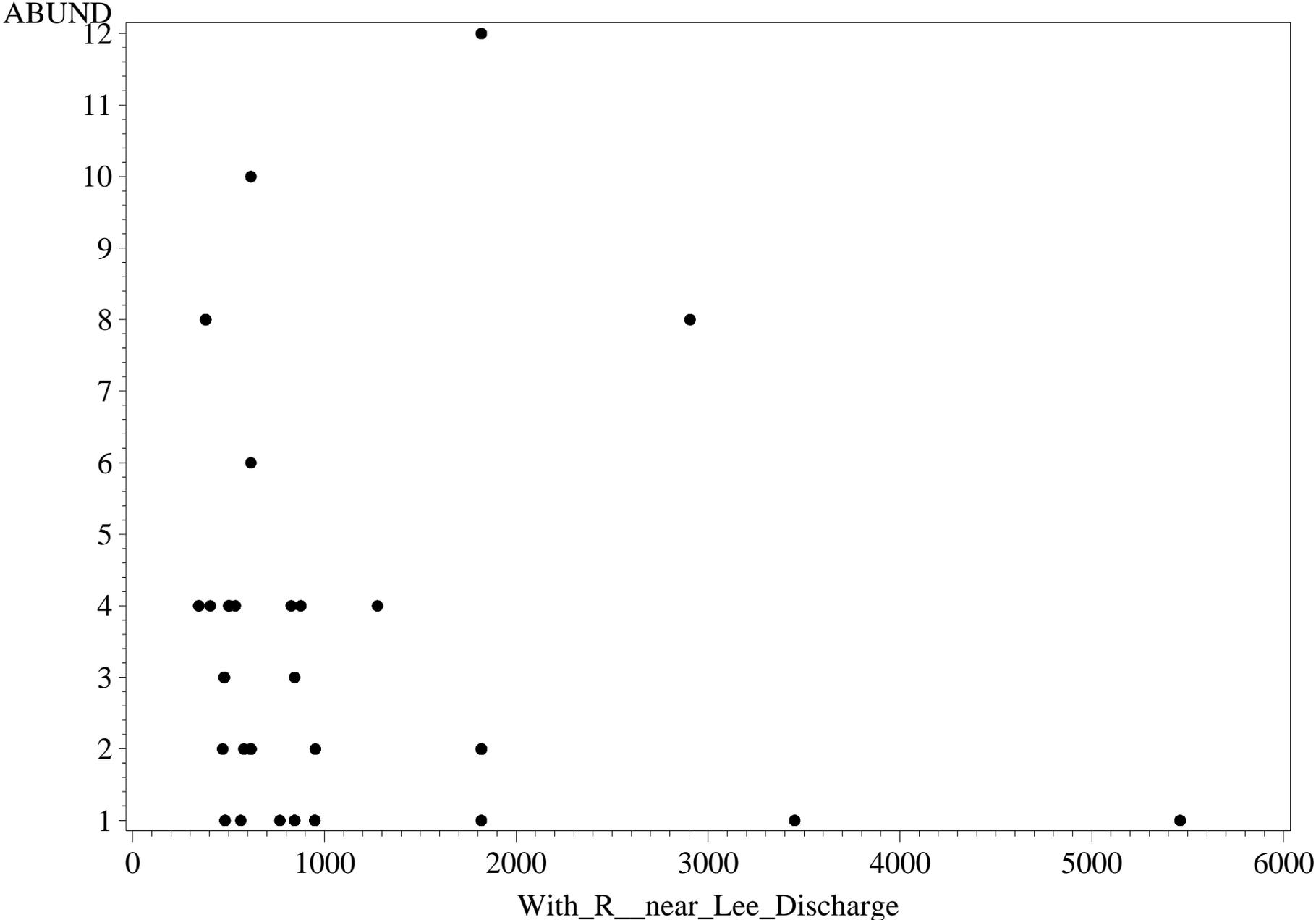


Individual Benthic Species vs. Estimated Withlacoochee Flow (at Lee)

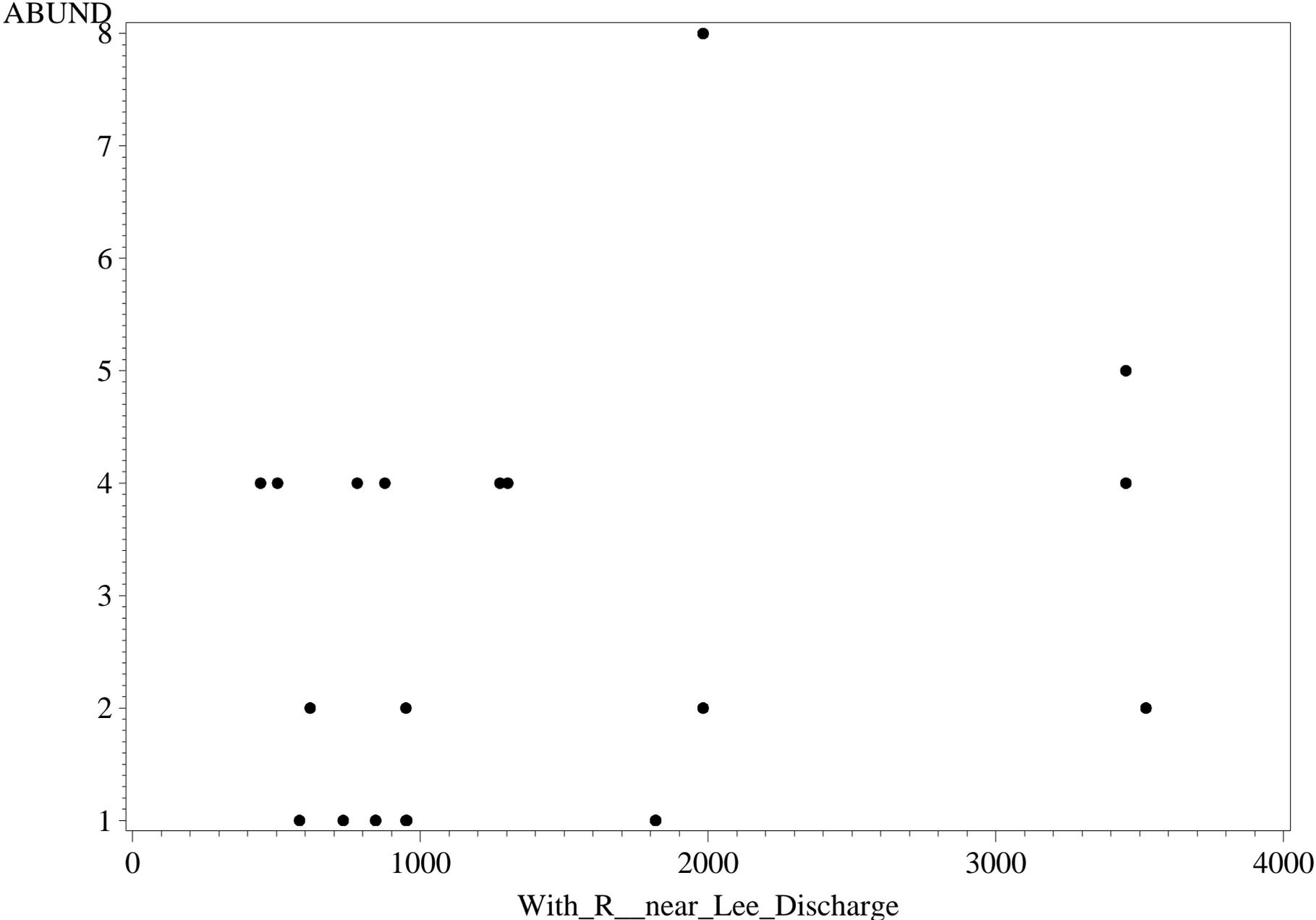
name=AEOLOSOMA SP.



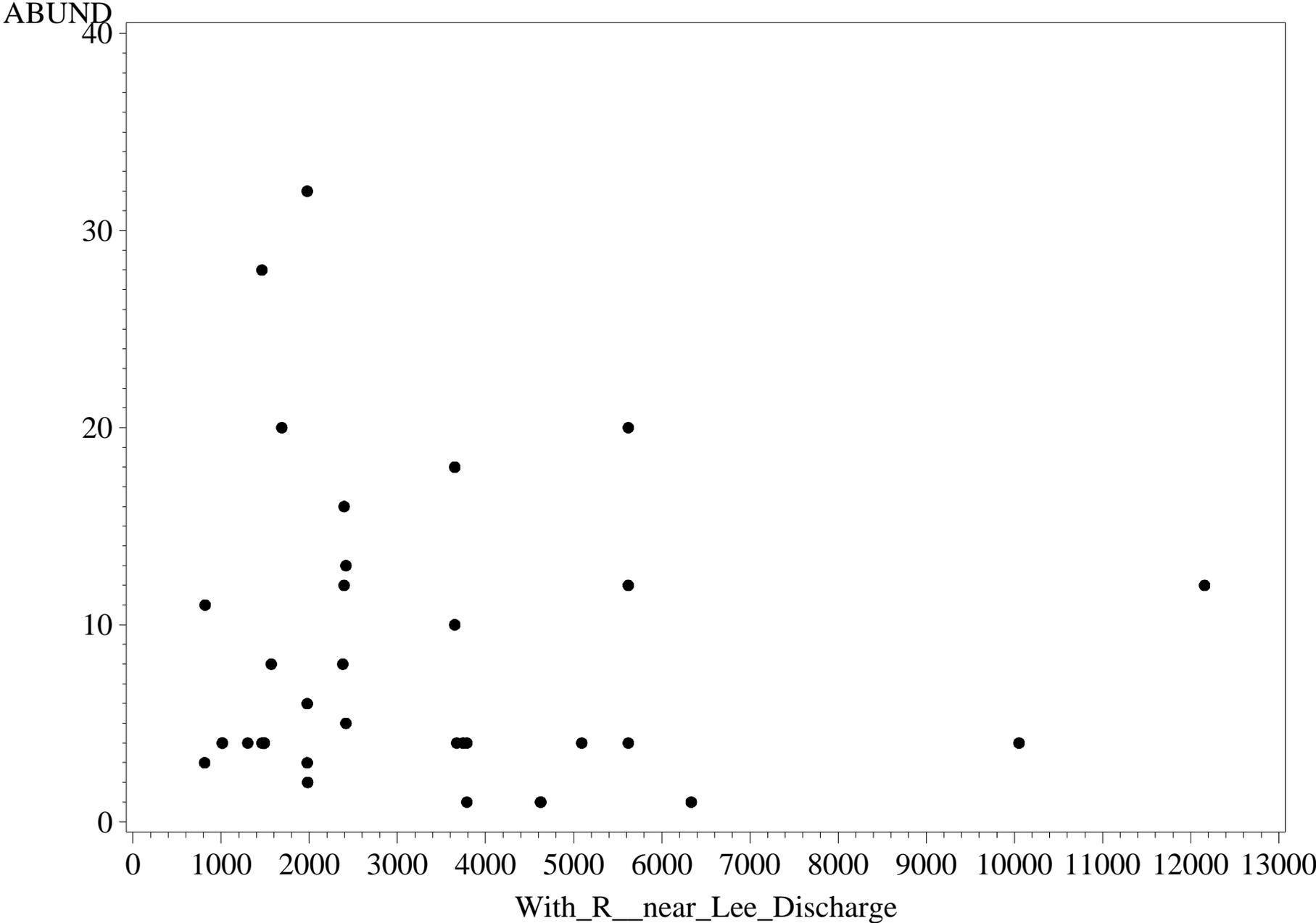
Individual Benthic Species vs. Estimated Withlacoochee Flow (at Lee)
name=ARGIA SP.



Individual Benthic Species vs. Estimated Withlacoochee Flow (at Lee)
name=ATRICHOPOGON SP.

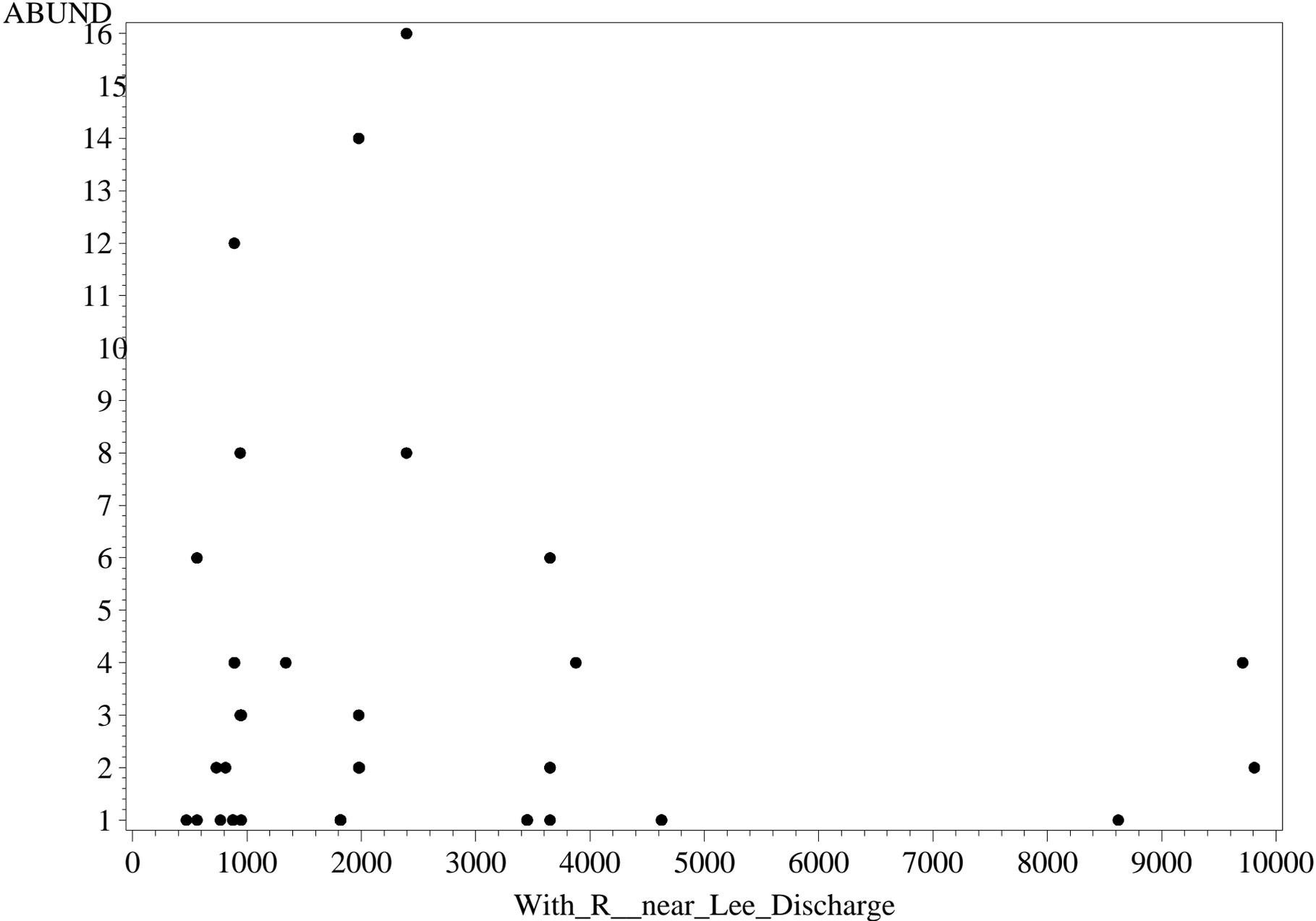


Individual Benthic Species vs. Estimated Withlacoochee Flow (at Lee)
name=BAETIS INTERCALARI



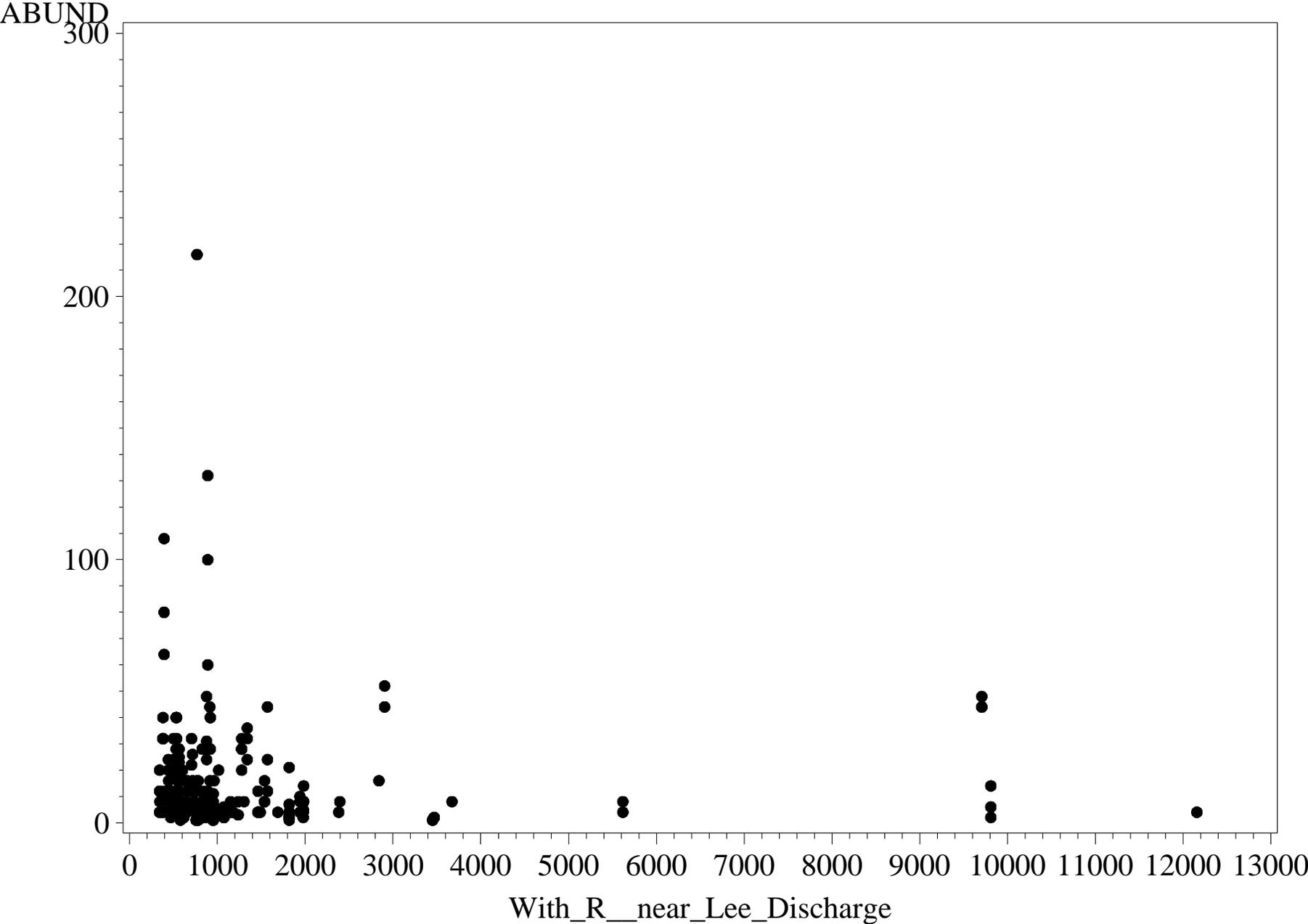
Individual Benthic Species vs. Estimated Withlacoochee Flow (at Lee)

name=BAETIS SP.

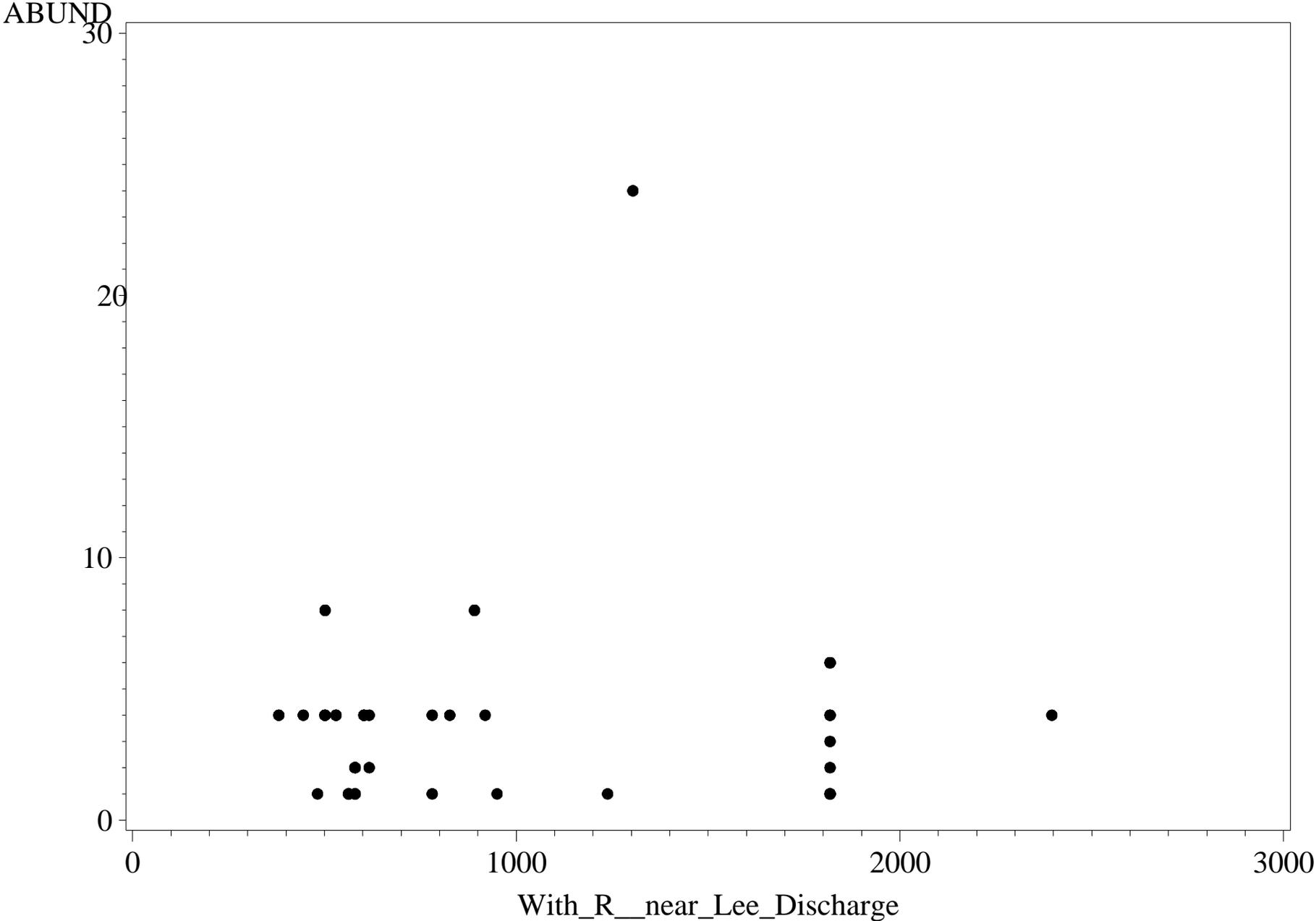


Individual Benthic Species vs. Estimated Withlacoochee Flow (at Lee)

name=BEZZIA/PALPOMYIA GRP SPP.

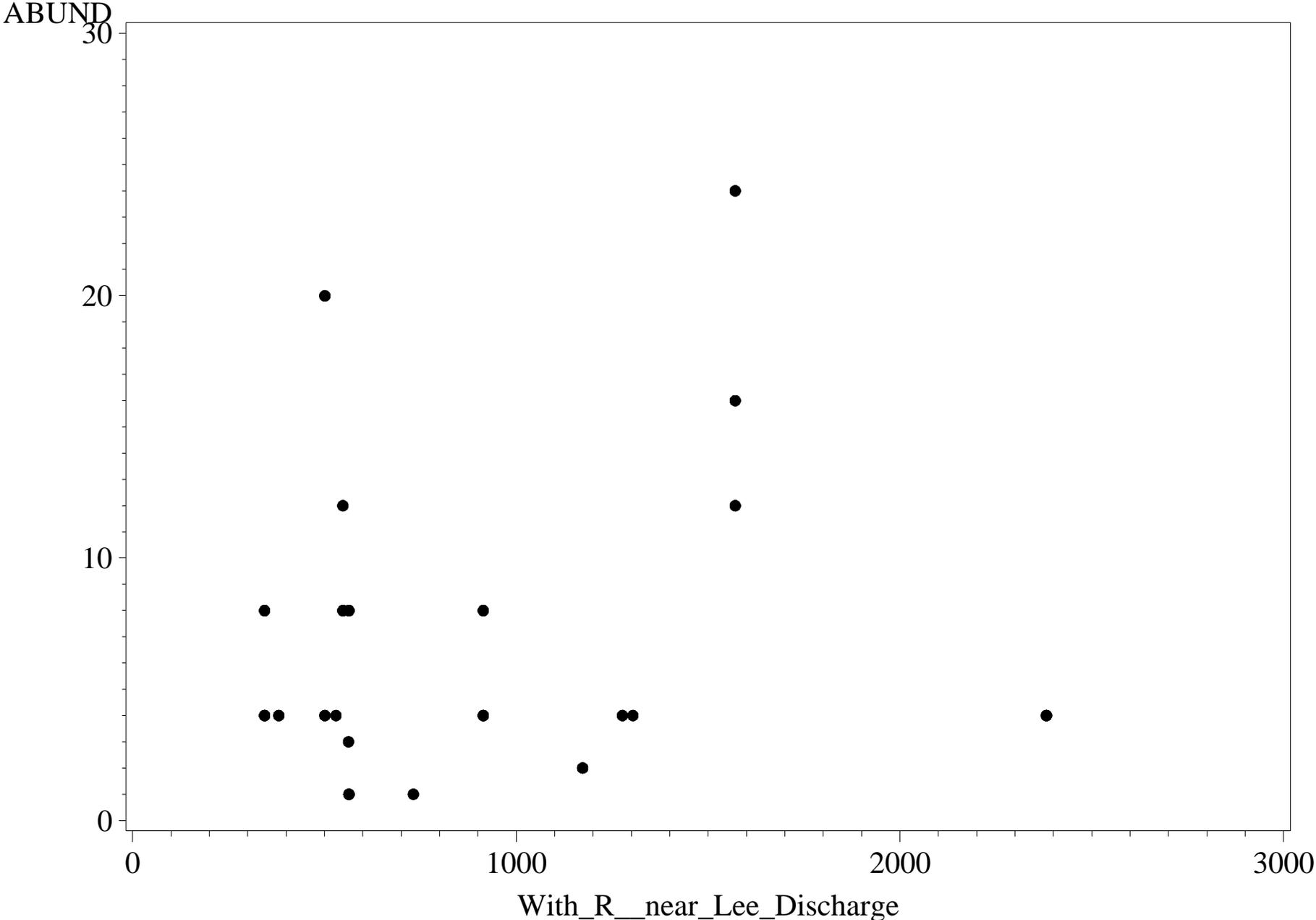


Individual Benthic Species vs. Estimated Withlacoochee Flow (at Lee)
name=CAENIS SP.

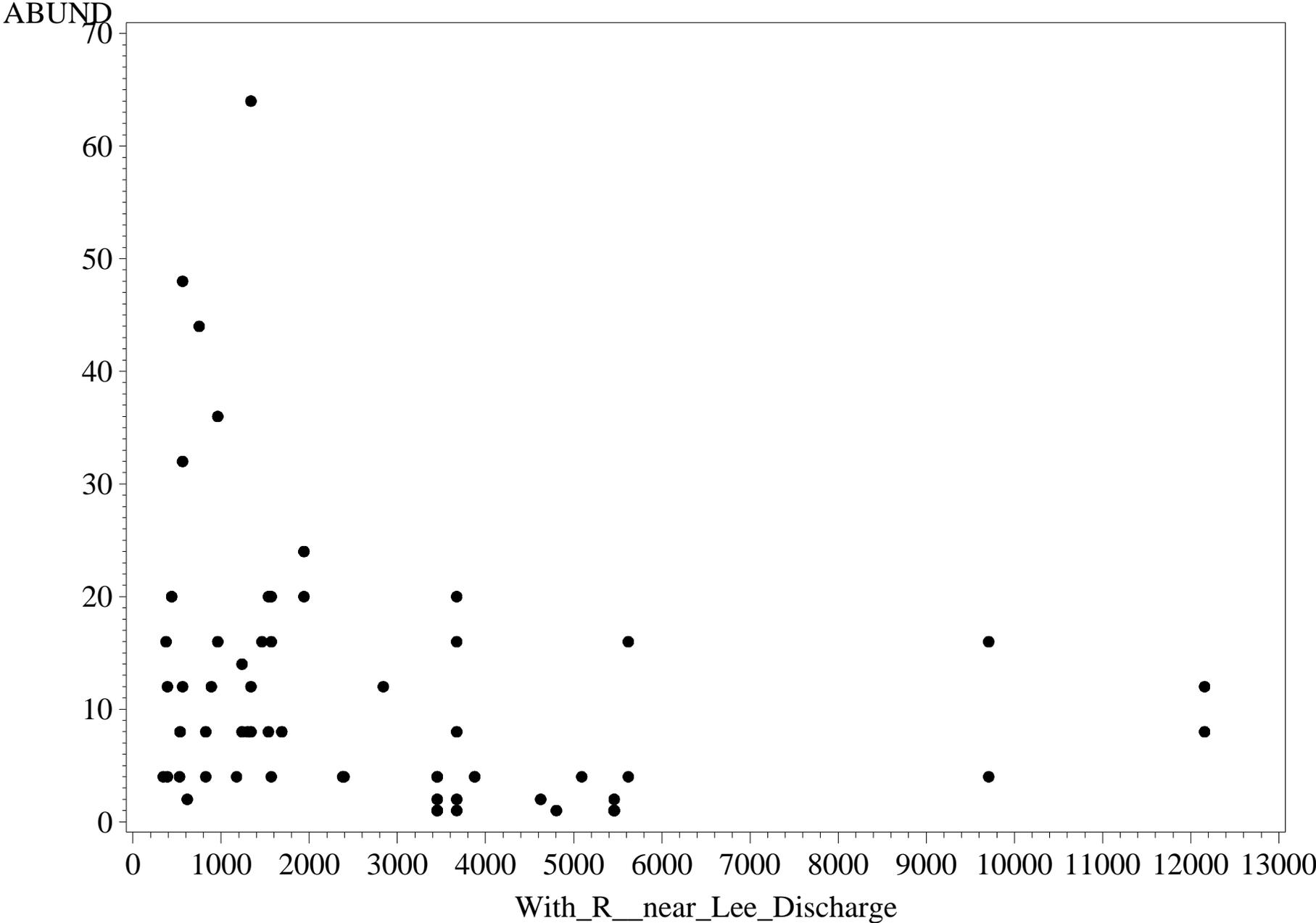


Individual Benthic Species vs. Estimated Withlacoochee Flow (at Lee)

name=CHAETOGASTER DIAPHANUS

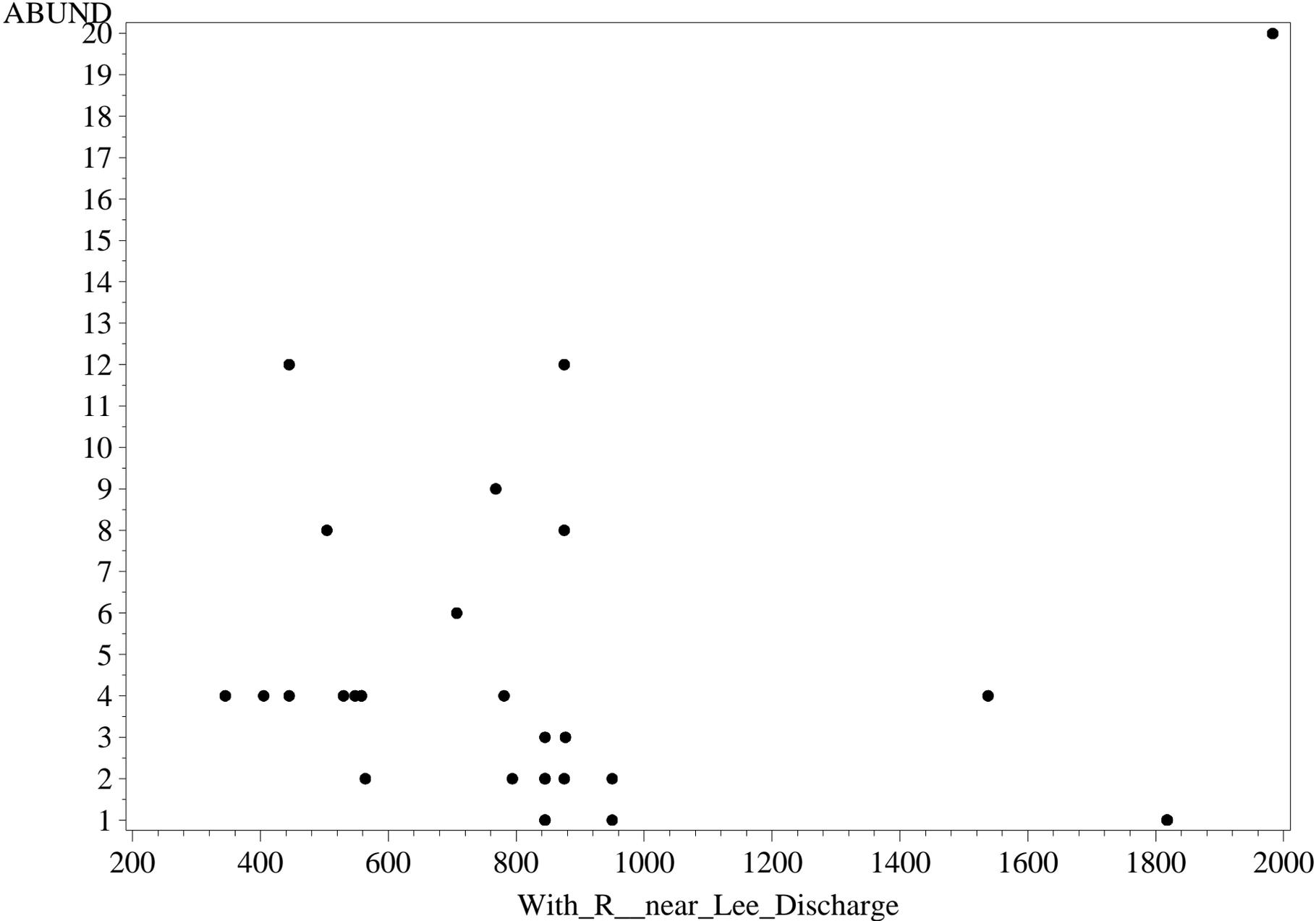


Individual Benthic Species vs. Estimated Withlacoochee Flow (at Lee)
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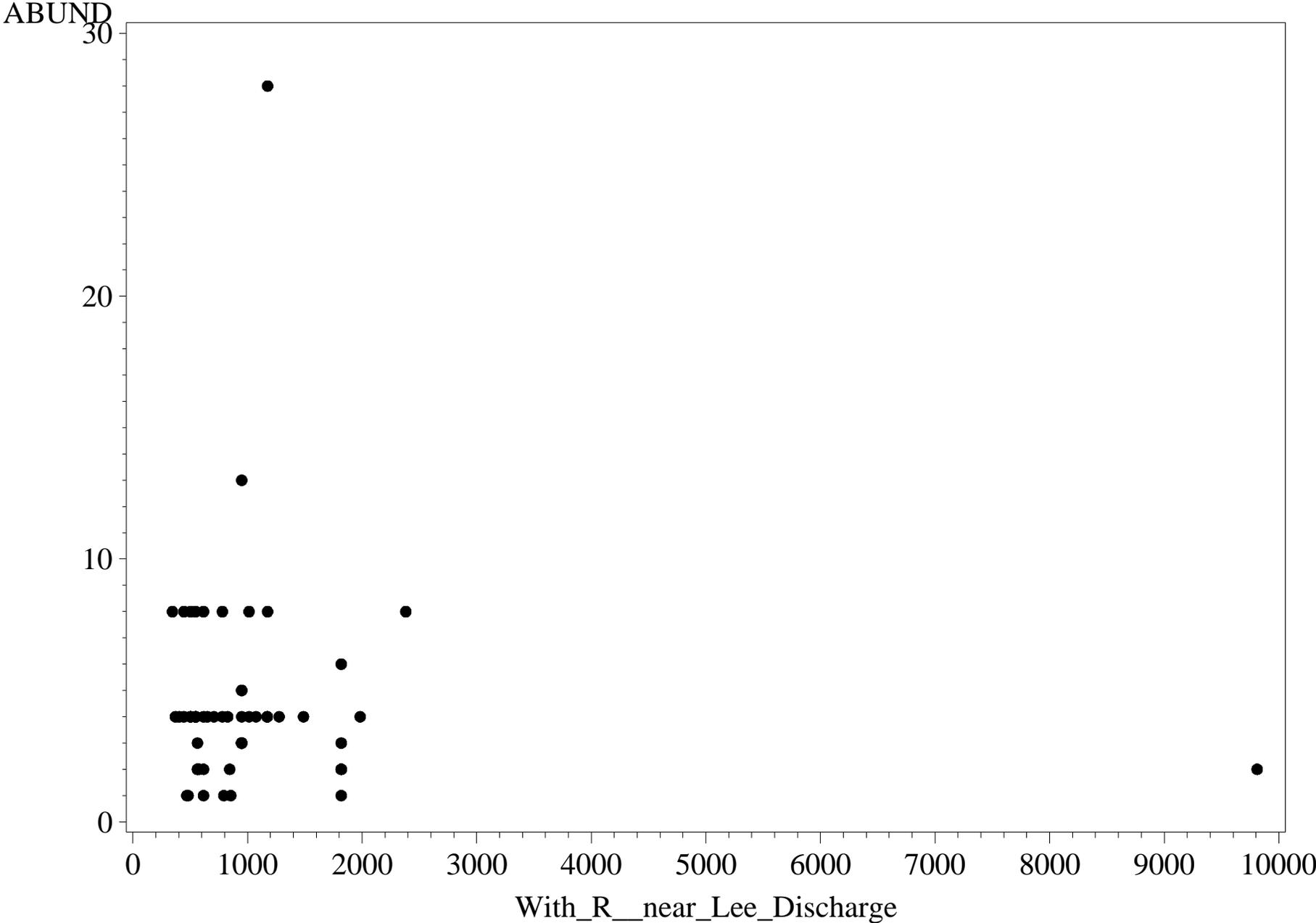


Individual Benthic Species vs. Estimated Withlacoochee Flow (at Lee)

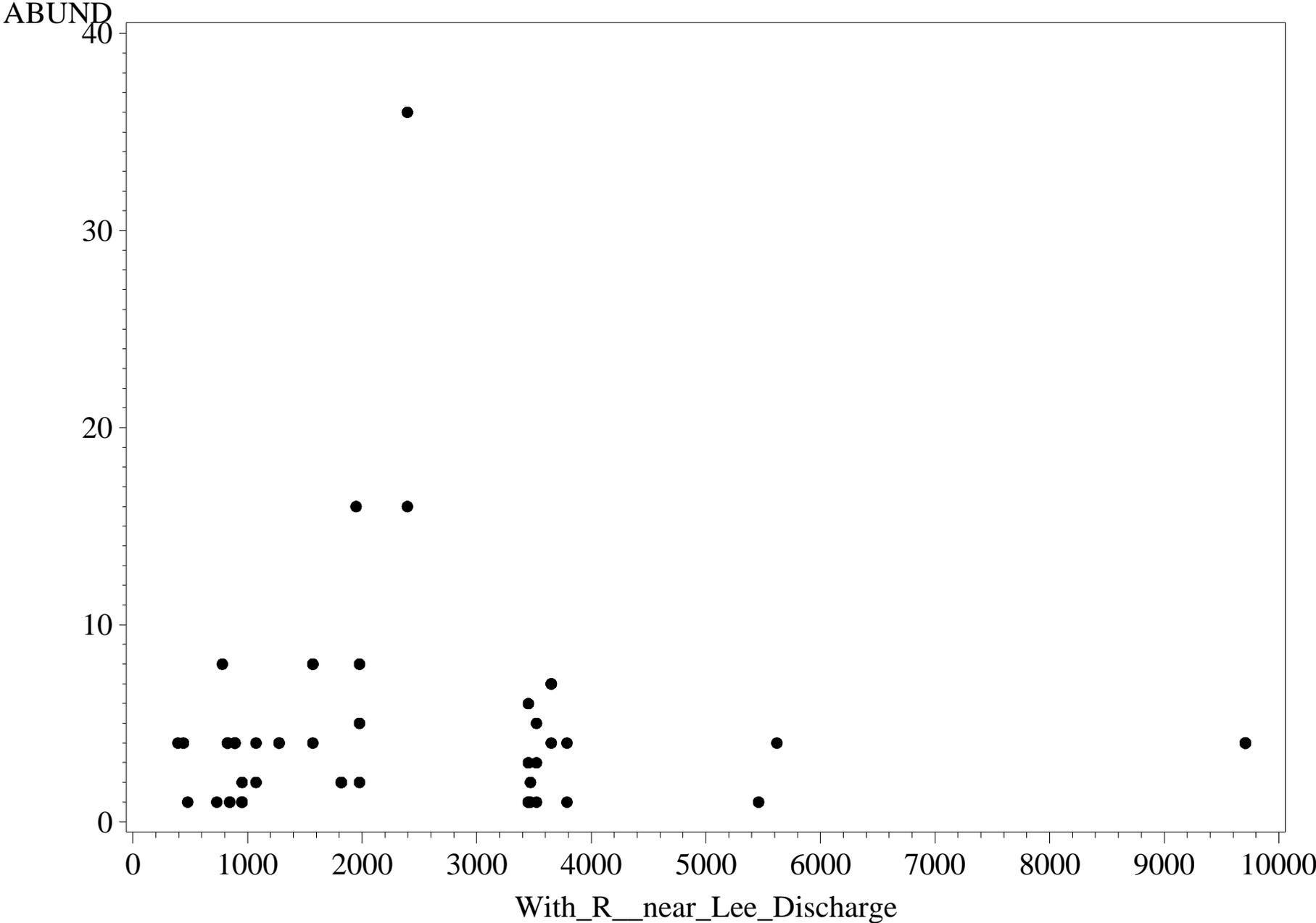
name=CHIRONOMINI SP.



Individual Benthic Species vs. Estimated Withlacoochee Flow (at Lee)
name=CLADOTANYTARSUS SP.

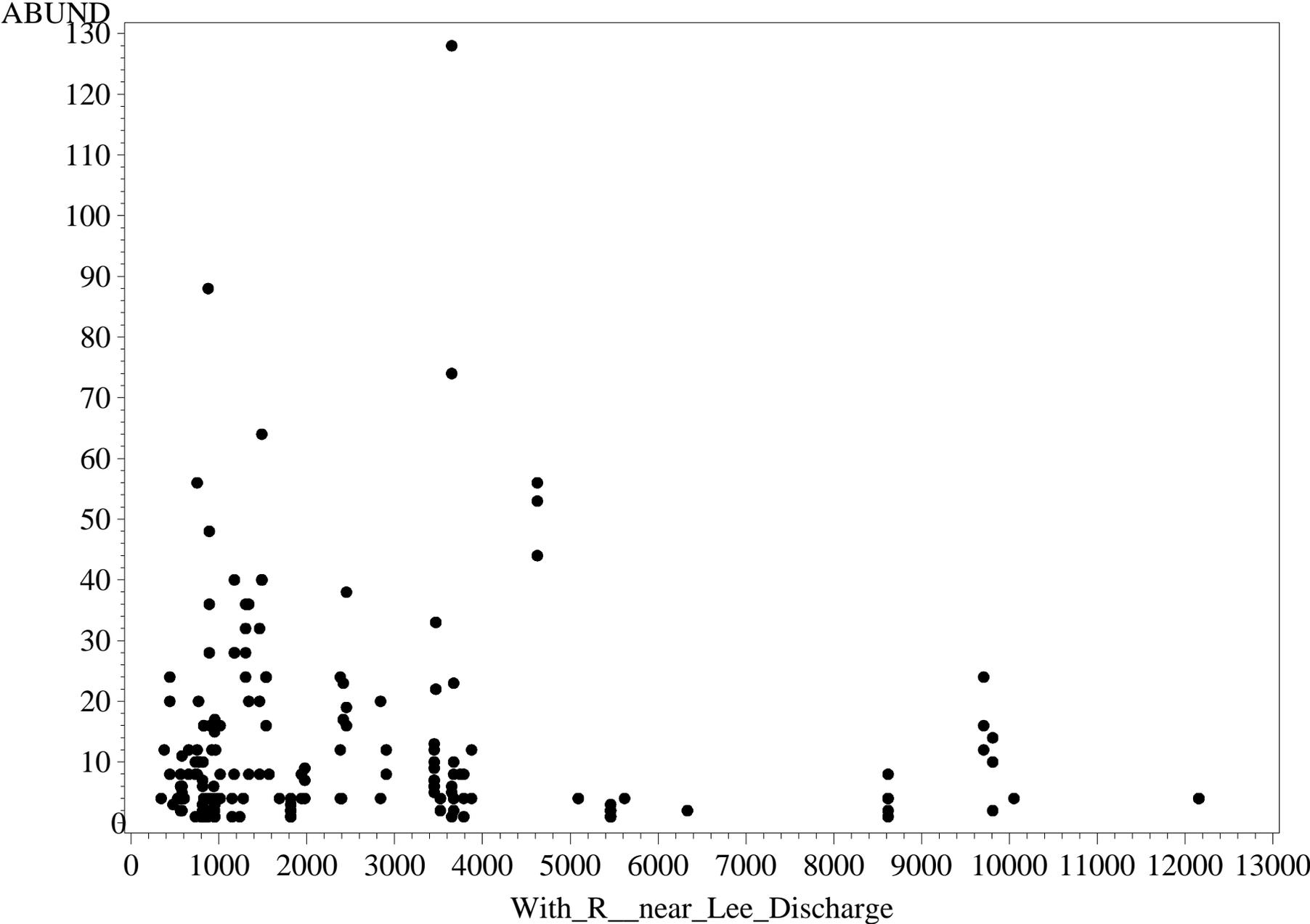


Individual Benthic Species vs. Estimated Withlacoochee Flow (at Lee)
name=CORYDALUS CORNUTUS



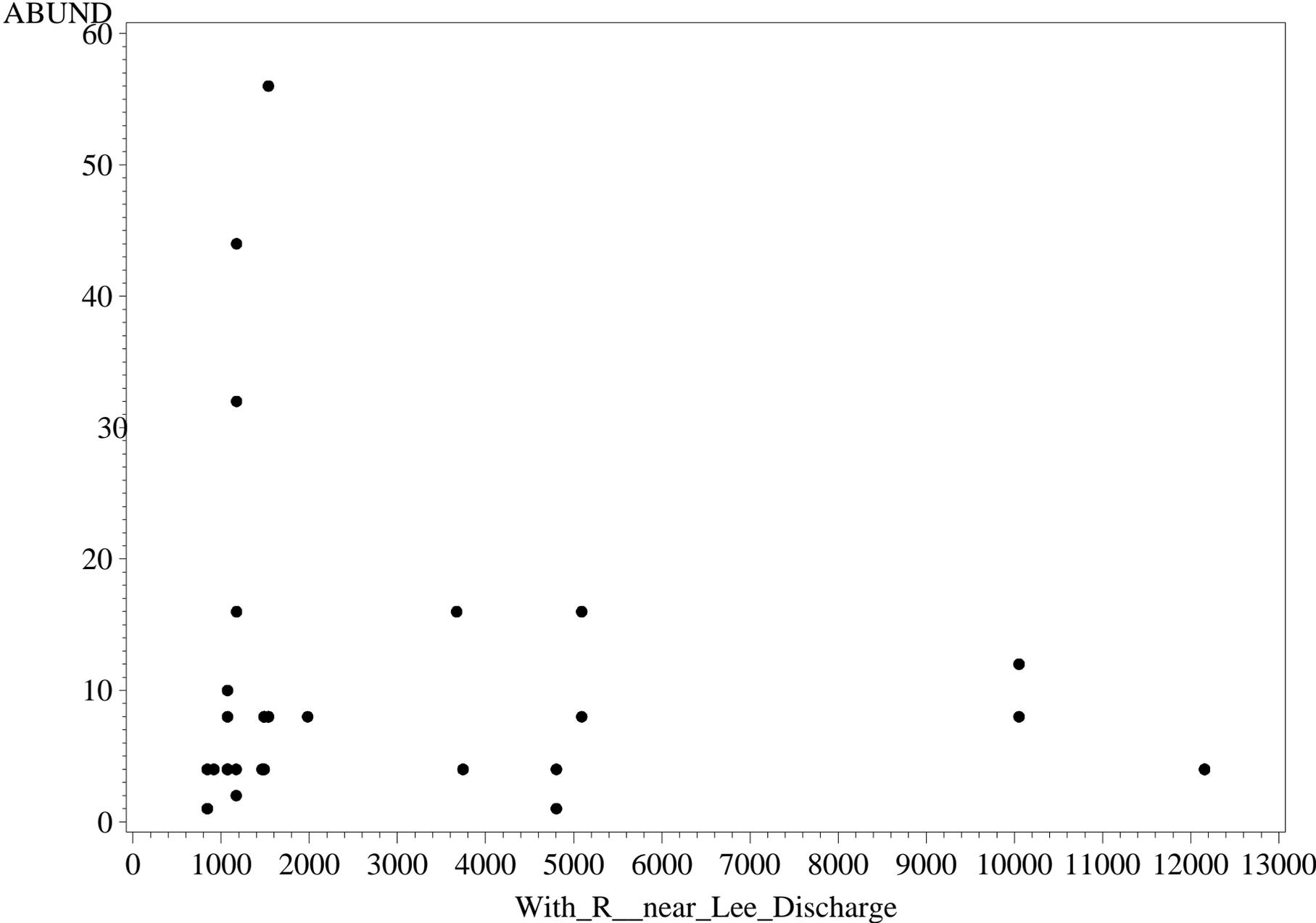
Individual Benthic Species vs. Estimated Withlacoochee Flow (at Lee)

name=CORYNONEURA SP.

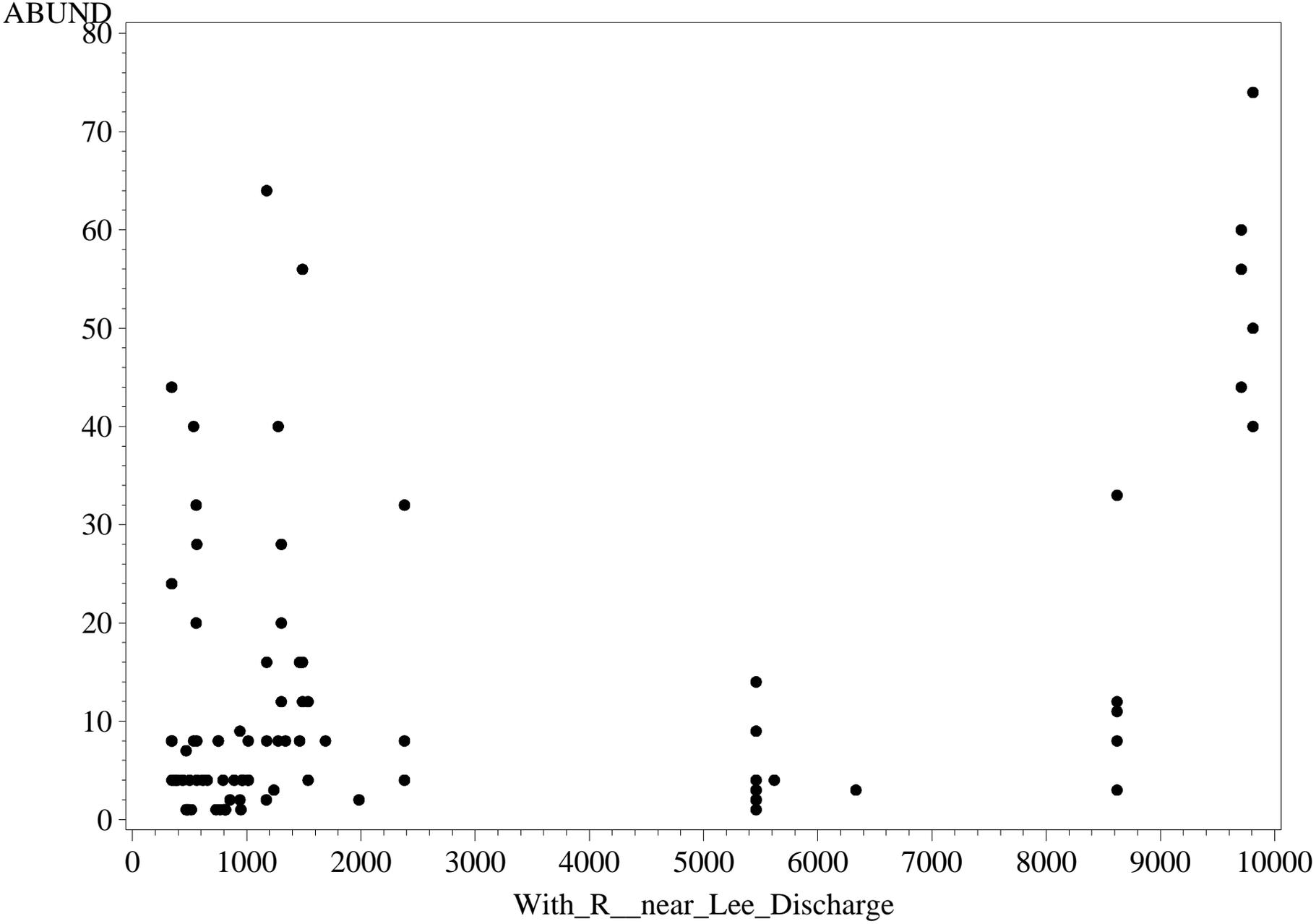


Individual Benthic Species vs. Estimated Withlacoochee Flow (at Lee)

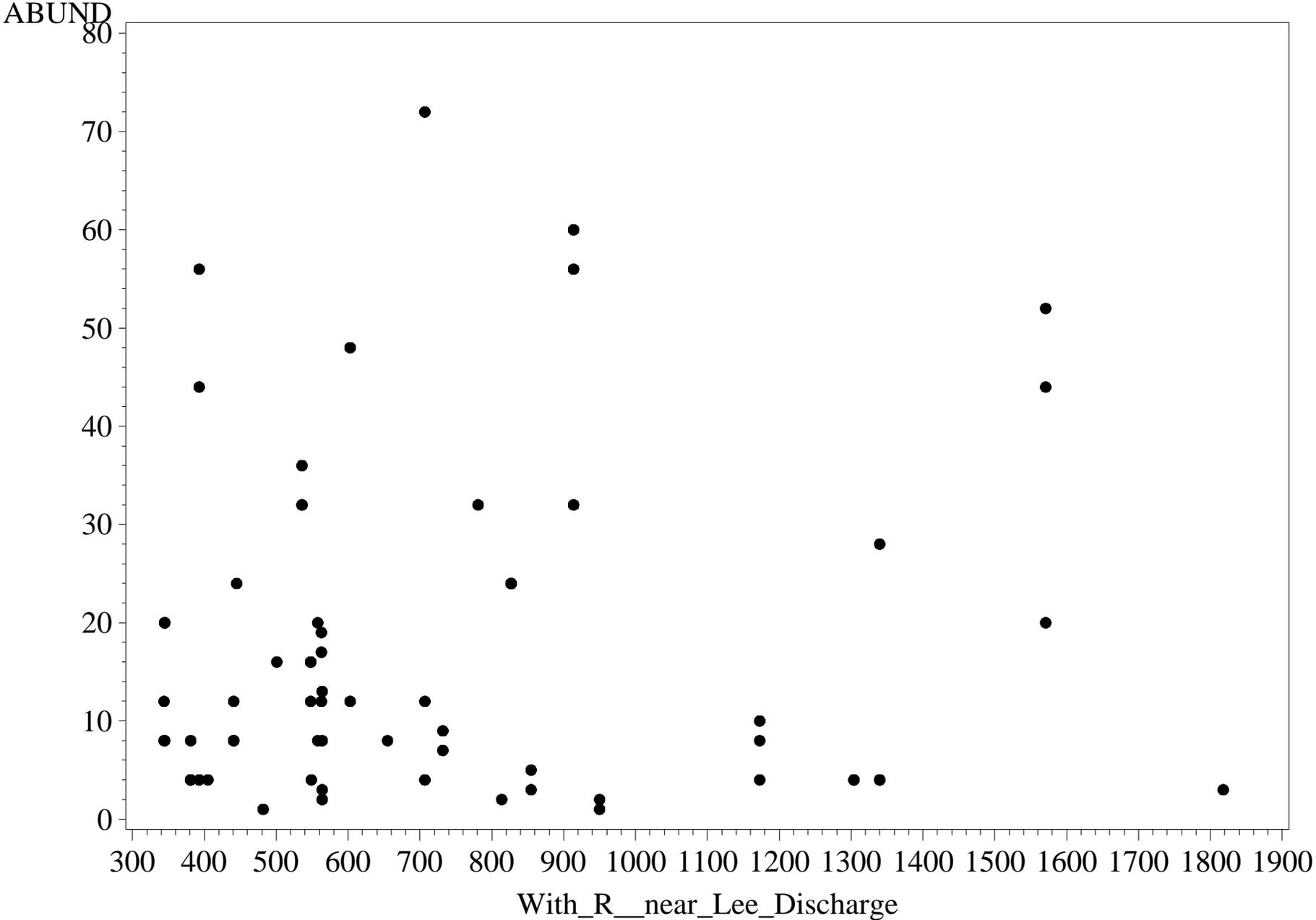
name=CORYNONEURA TARIS



Individual Benthic Species vs. Estimated Withlacoochee Flow (at Lee)
name=CRICOTOPUS BICINCTUS

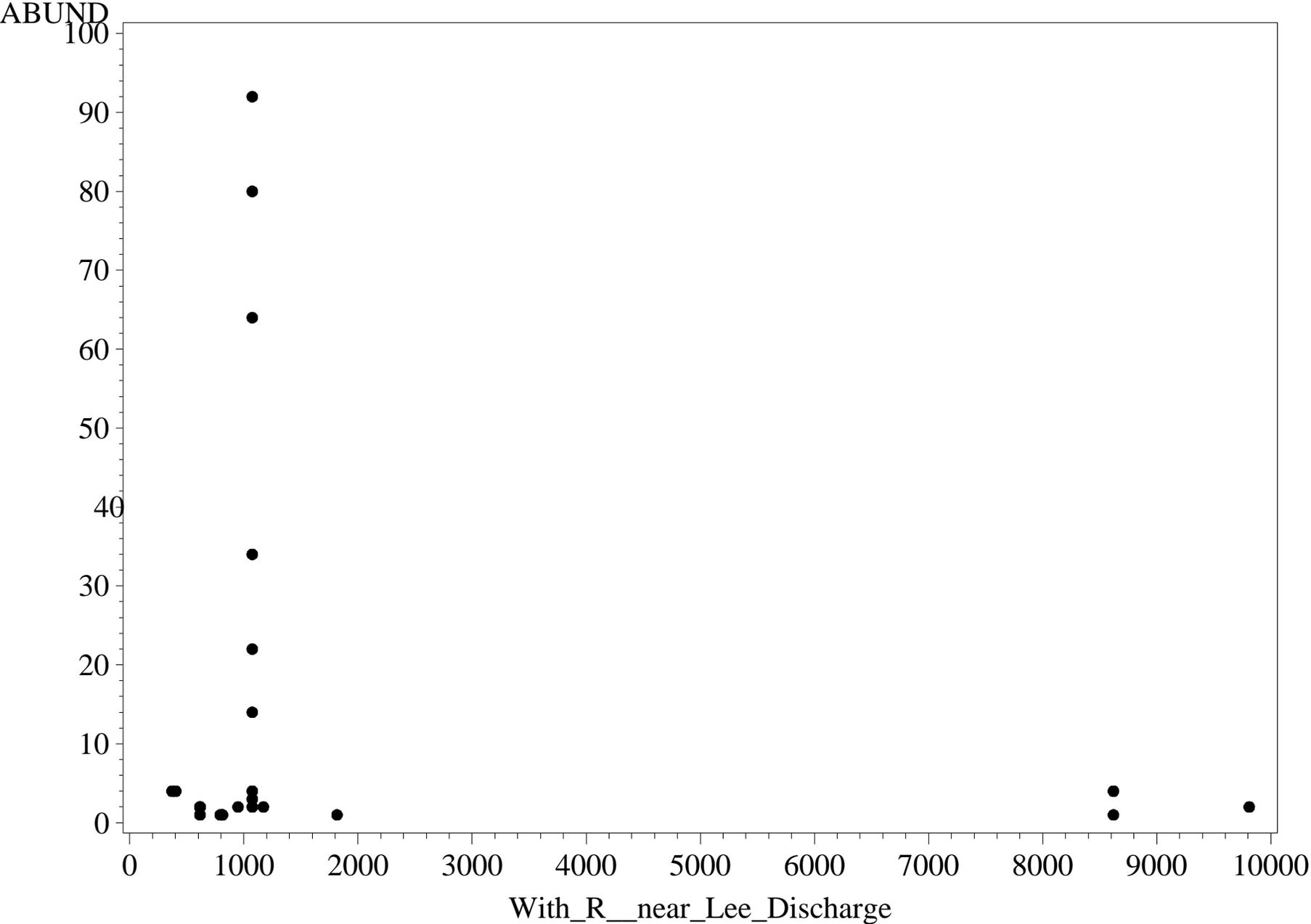


Individual Benthic Species vs. Estimated Withlacoochee Flow (at Lee)
name=CRICOTOPUS POLITUS



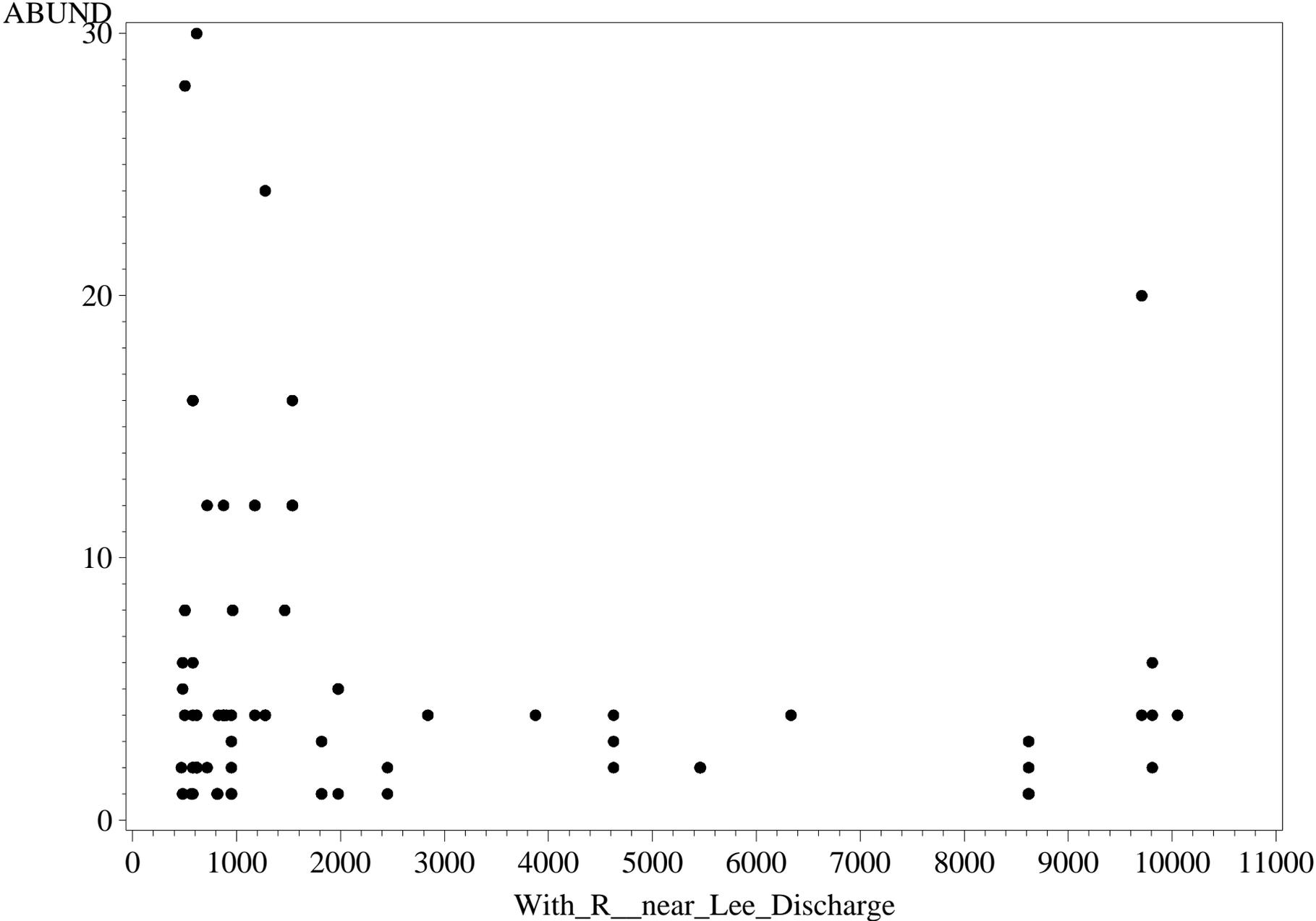
Individual Benthic Species vs. Estimated Withlacoochee Flow (at Lee)

name=CRICOTOPUS SP.

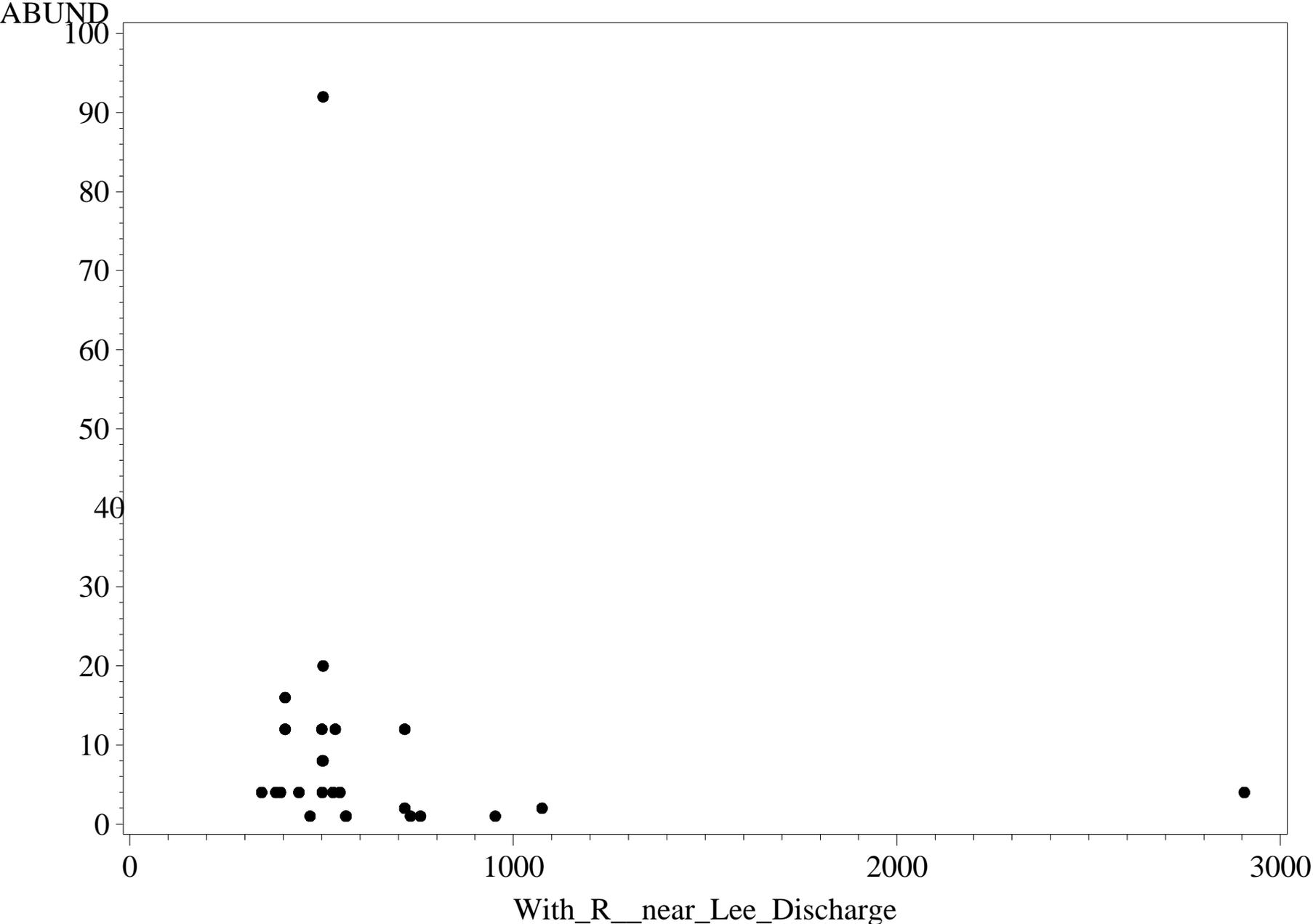


Individual Benthic Species vs. Estimated Withlacoochee Flow (at Lee)

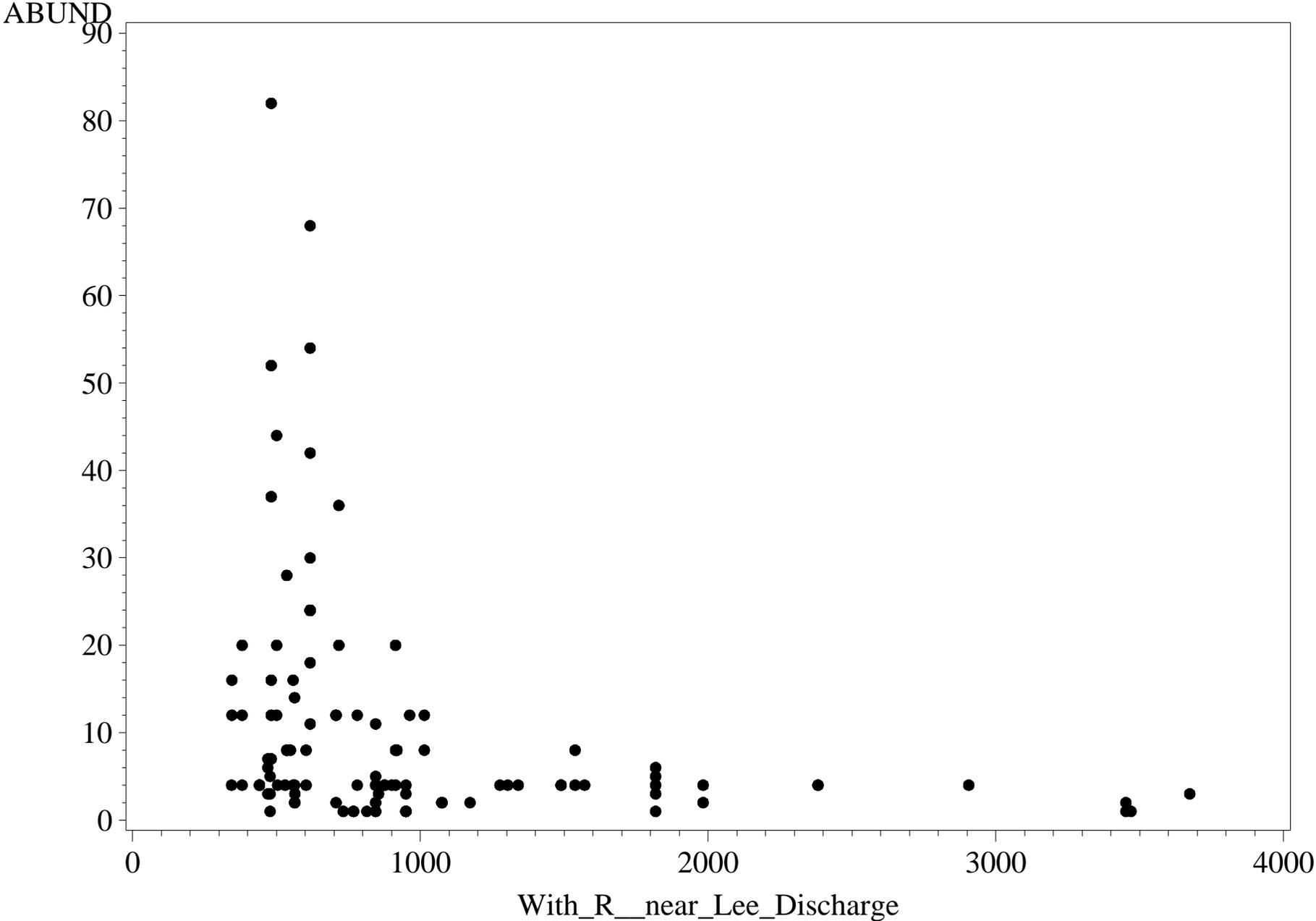
name=CRICOTOPUS/ORTHOCLAD SPP.



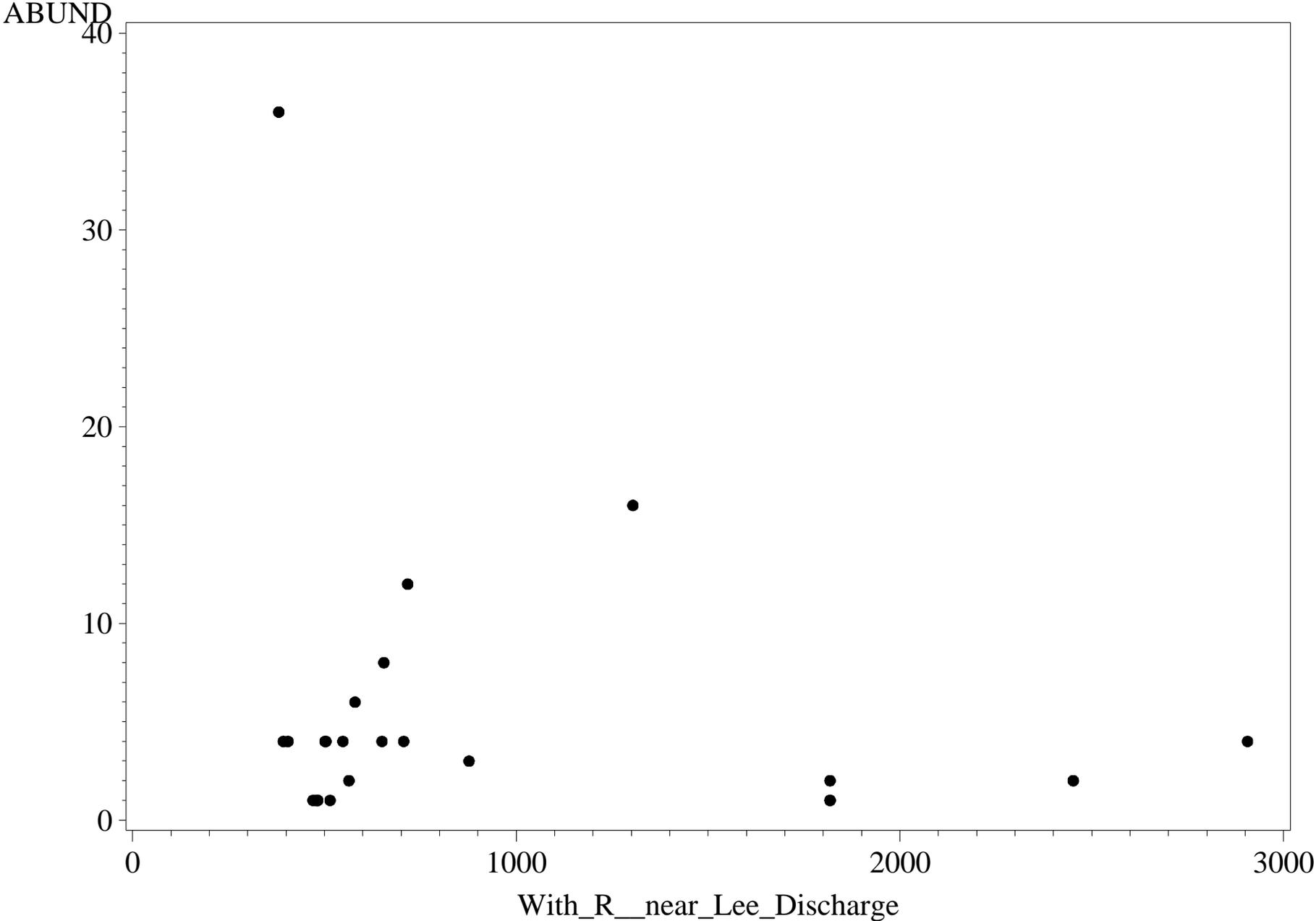
Individual Benthic Species vs. Estimated Withlacoochee Flow (at Lee)
name=CRYPTOTENDIPES SP.



Individual Benthic Species vs. Estimated Withlacoochee Flow (at Lee)
name=CYRNELLUS FRATERNUS

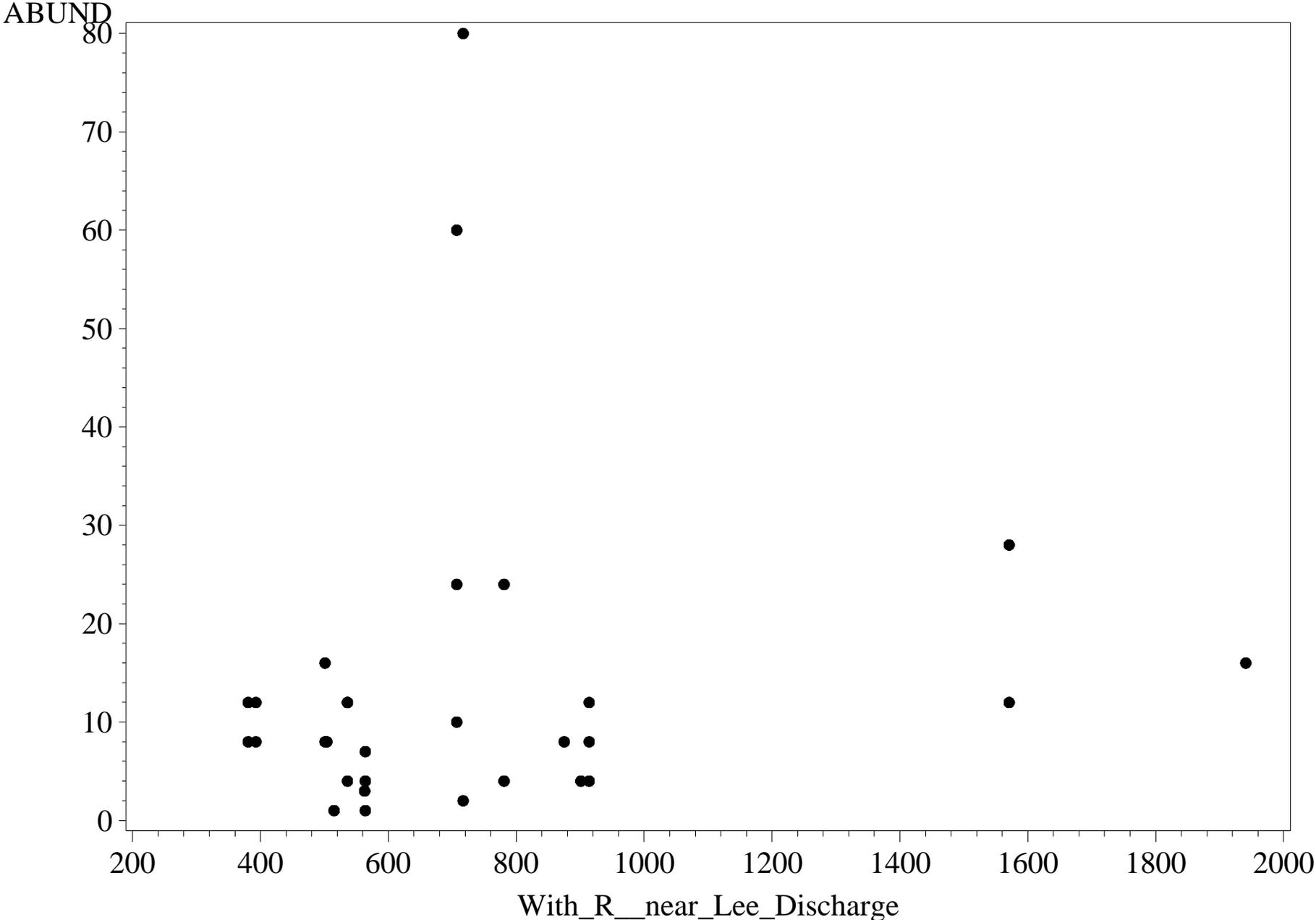


Individual Benthic Species vs. Estimated Withlacoochee Flow (at Lee)
name=DERO SP.



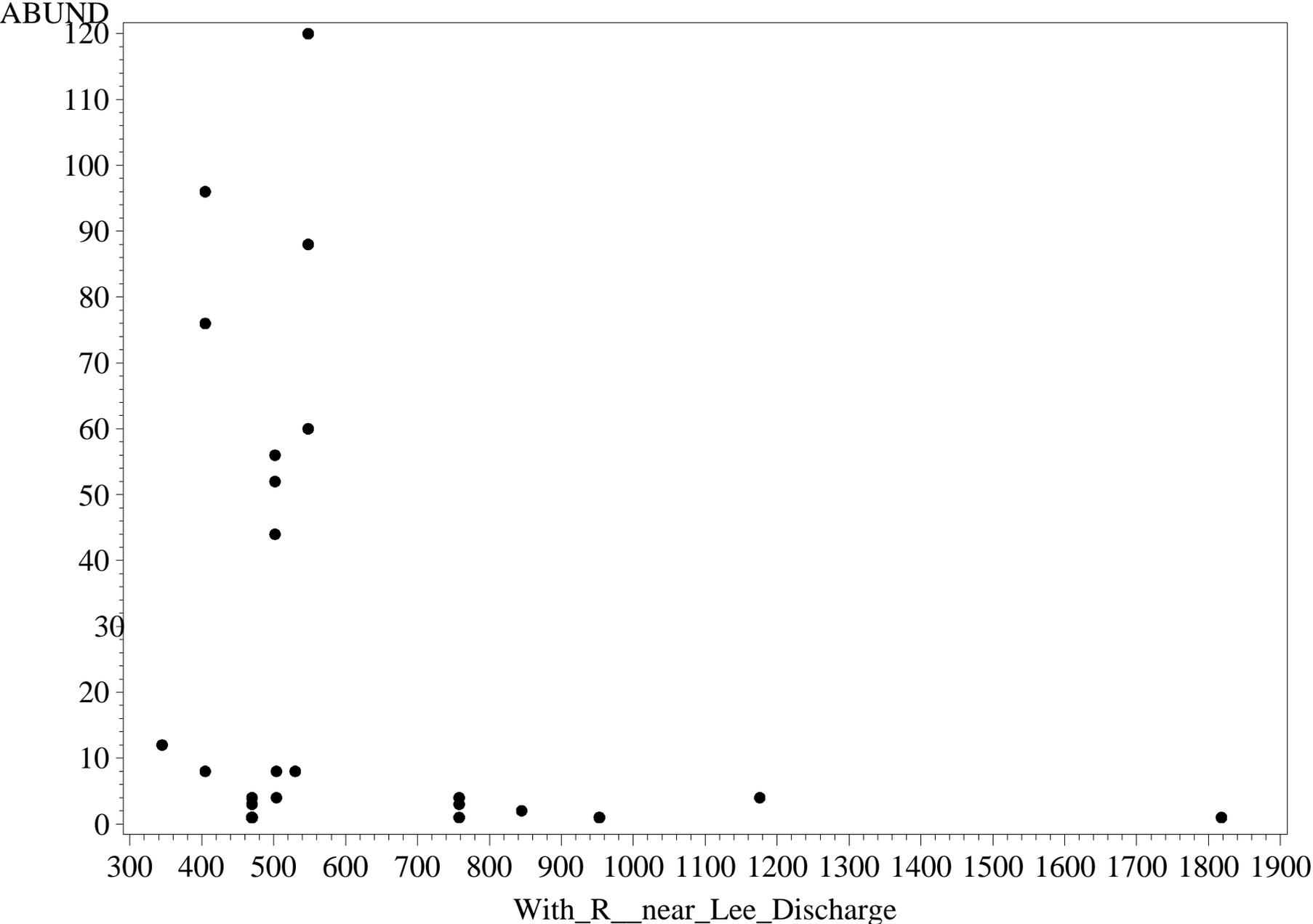
Individual Benthic Species vs. Estimated Withlacoochee Flow (at Lee)

name=DERO TRIFIDA



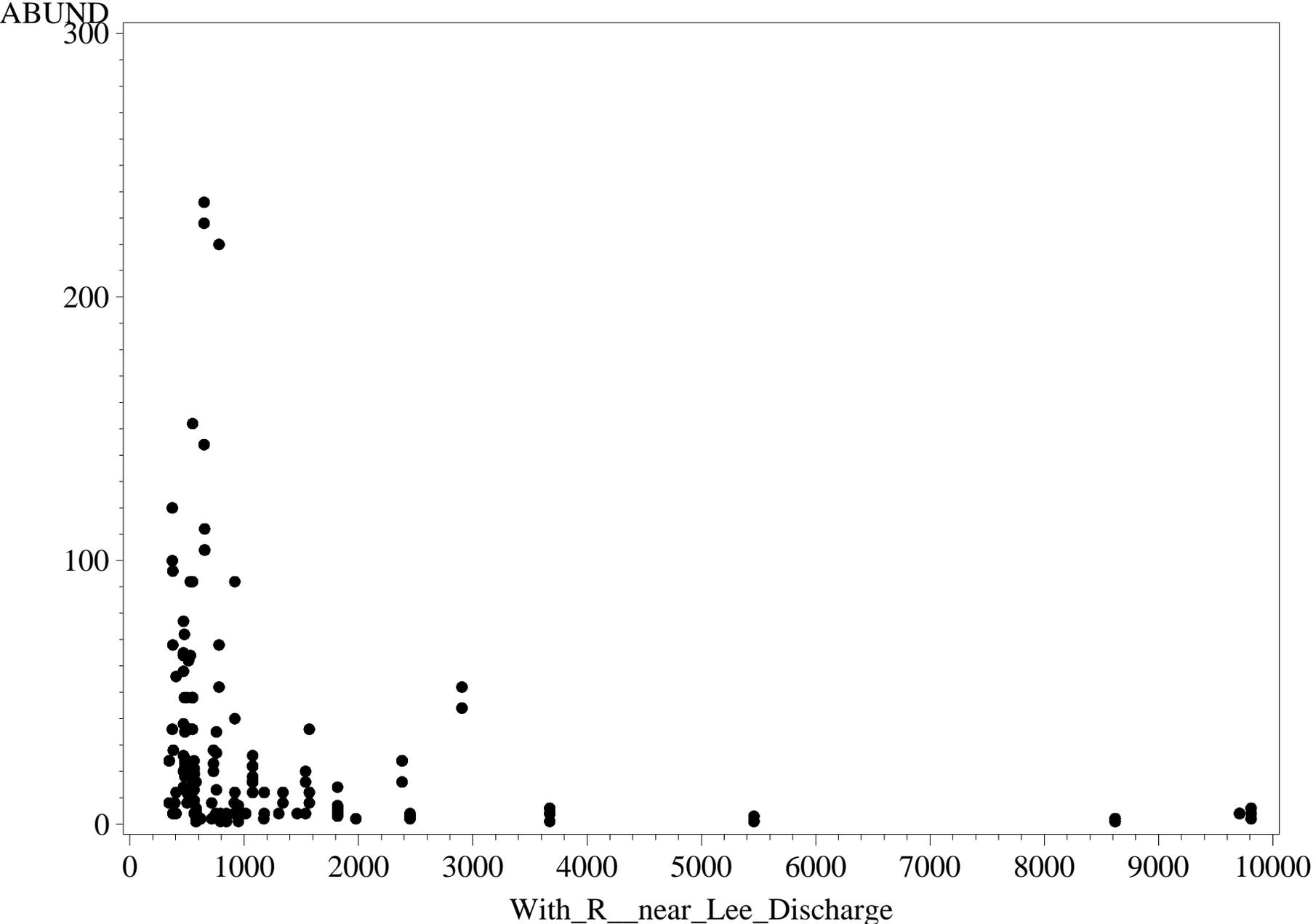
Individual Benthic Species vs. Estimated Withlacoochee Flow (at Lee)

name=DICROTENDIPES MODESTUS



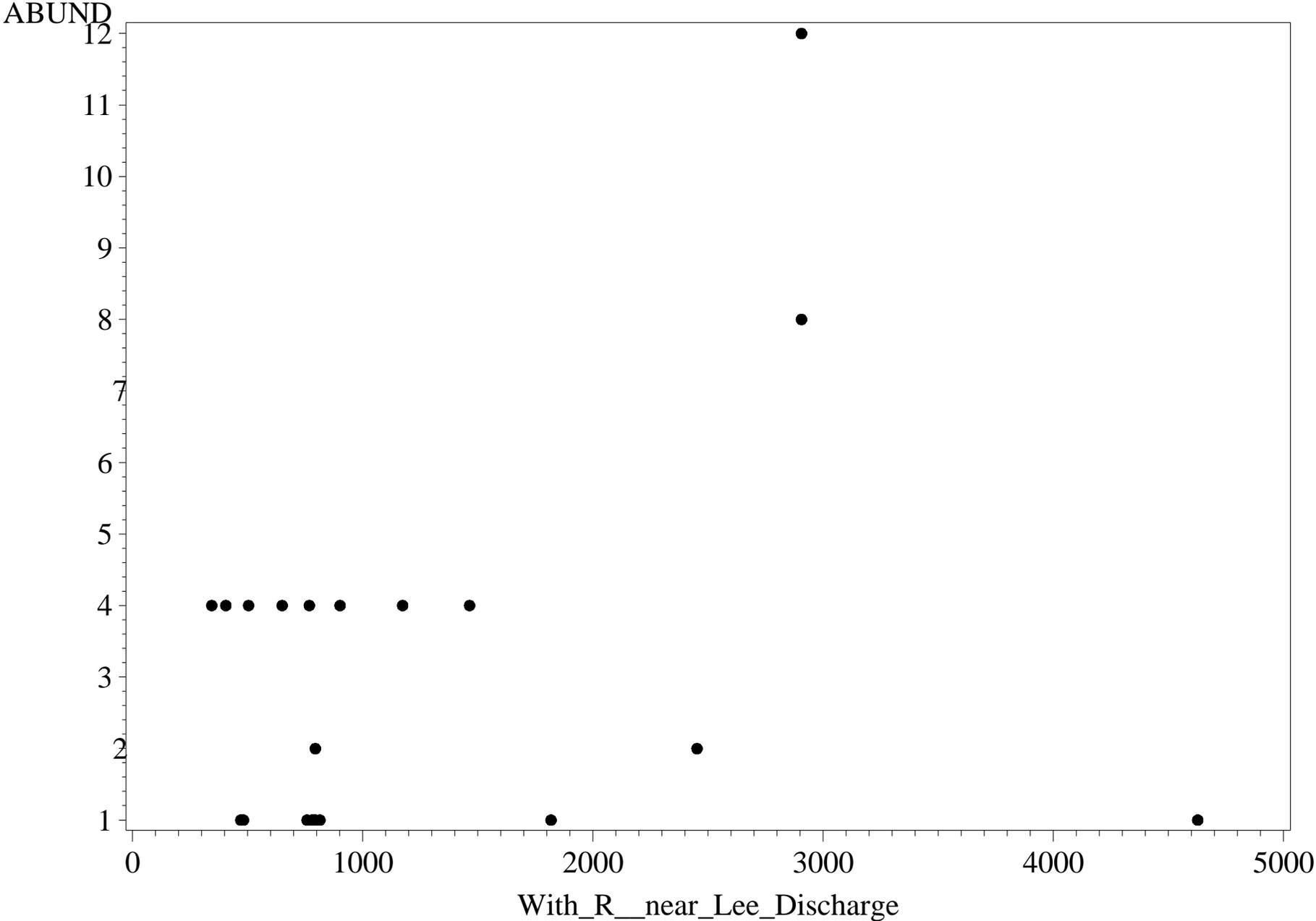
Individual Benthic Species vs. Estimated Withlacoochee Flow (at Lee)

name=DICROTENDIPES NEOMODESTUS

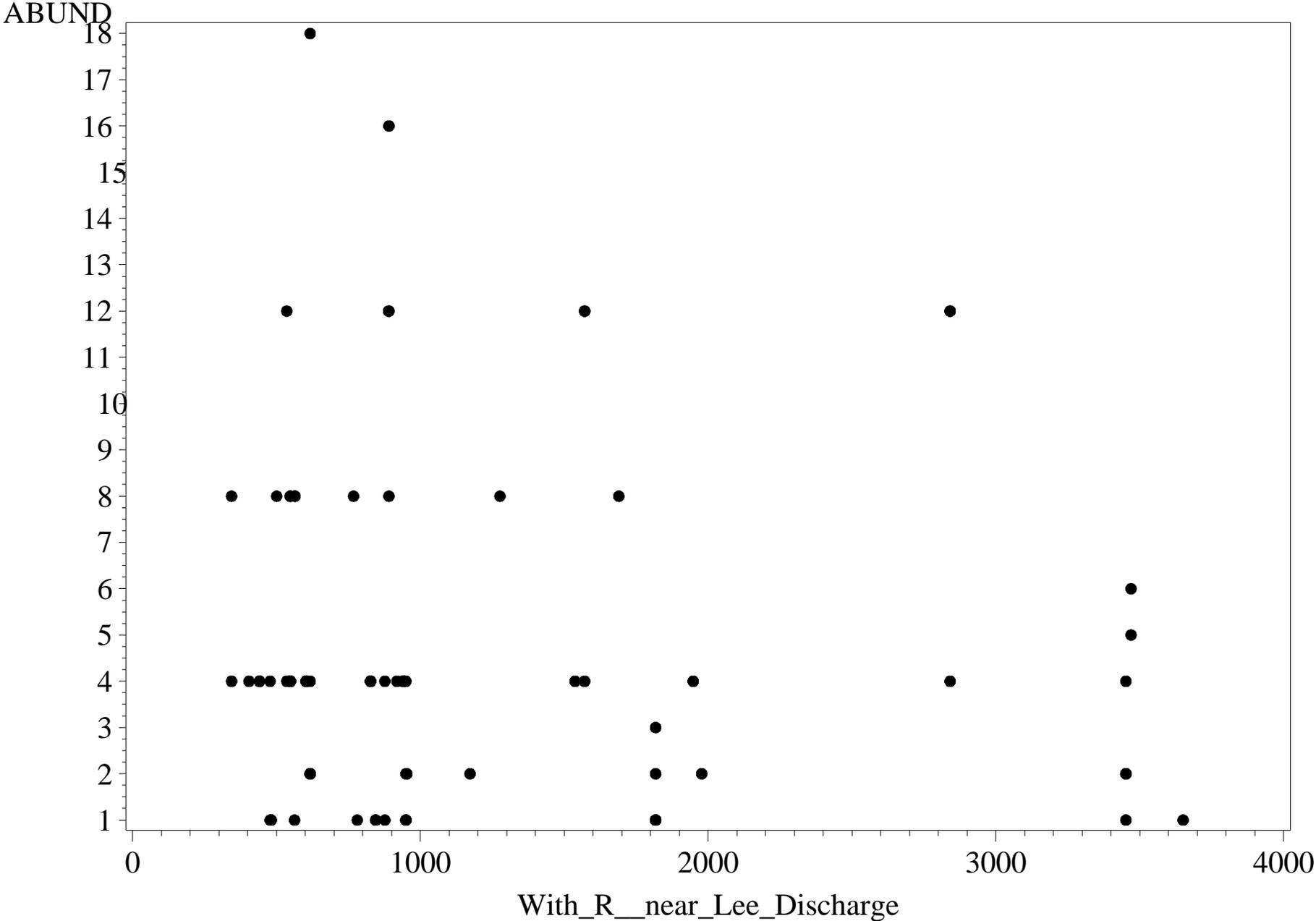


Individual Benthic Species vs. Estimated Withlacoochee Flow (at Lee)

name=DICROTENDIPES SP.

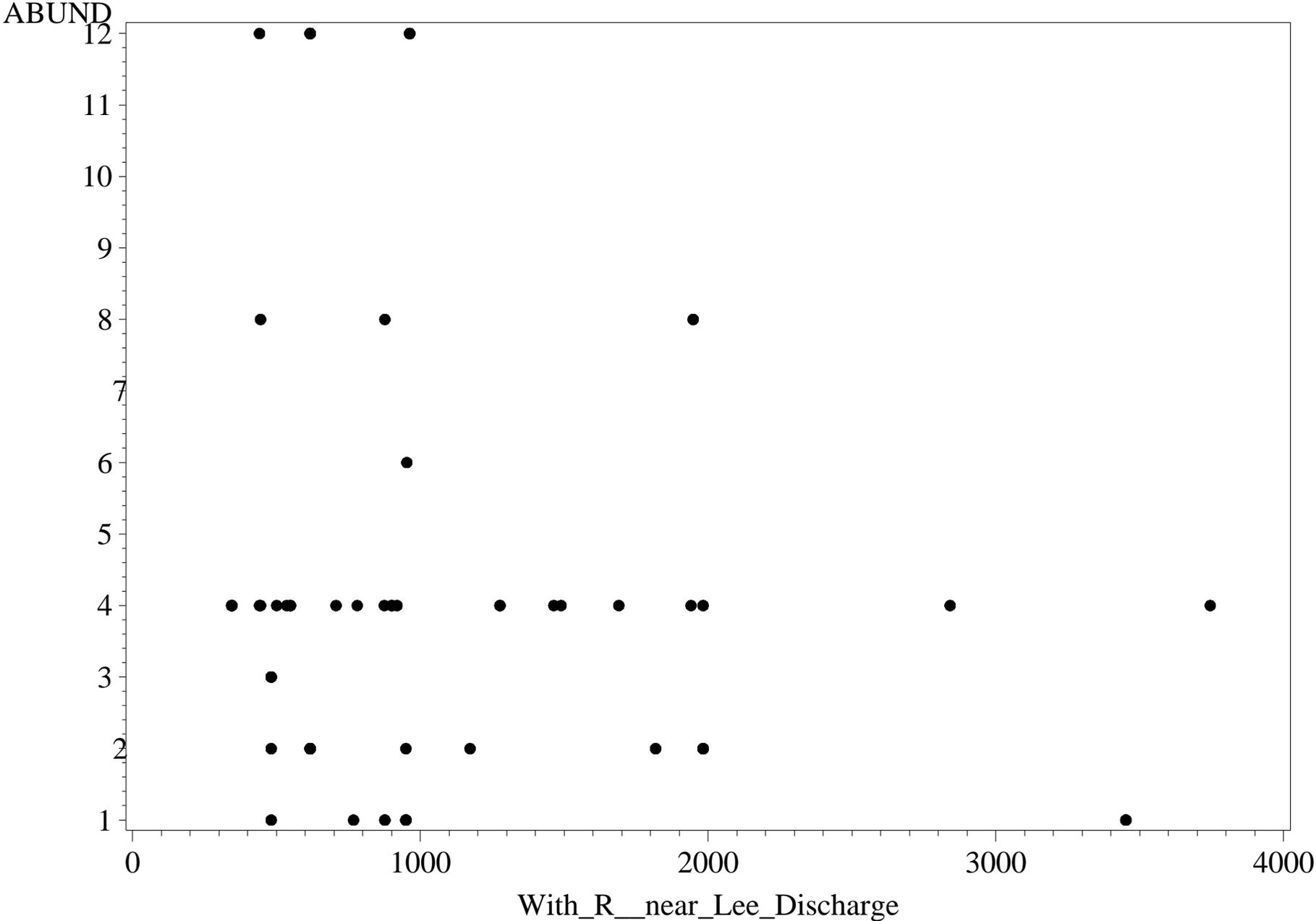


Individual Benthic Species vs. Estimated Withlacoochee Flow (at Lee)
name=DINEUTUS SP.

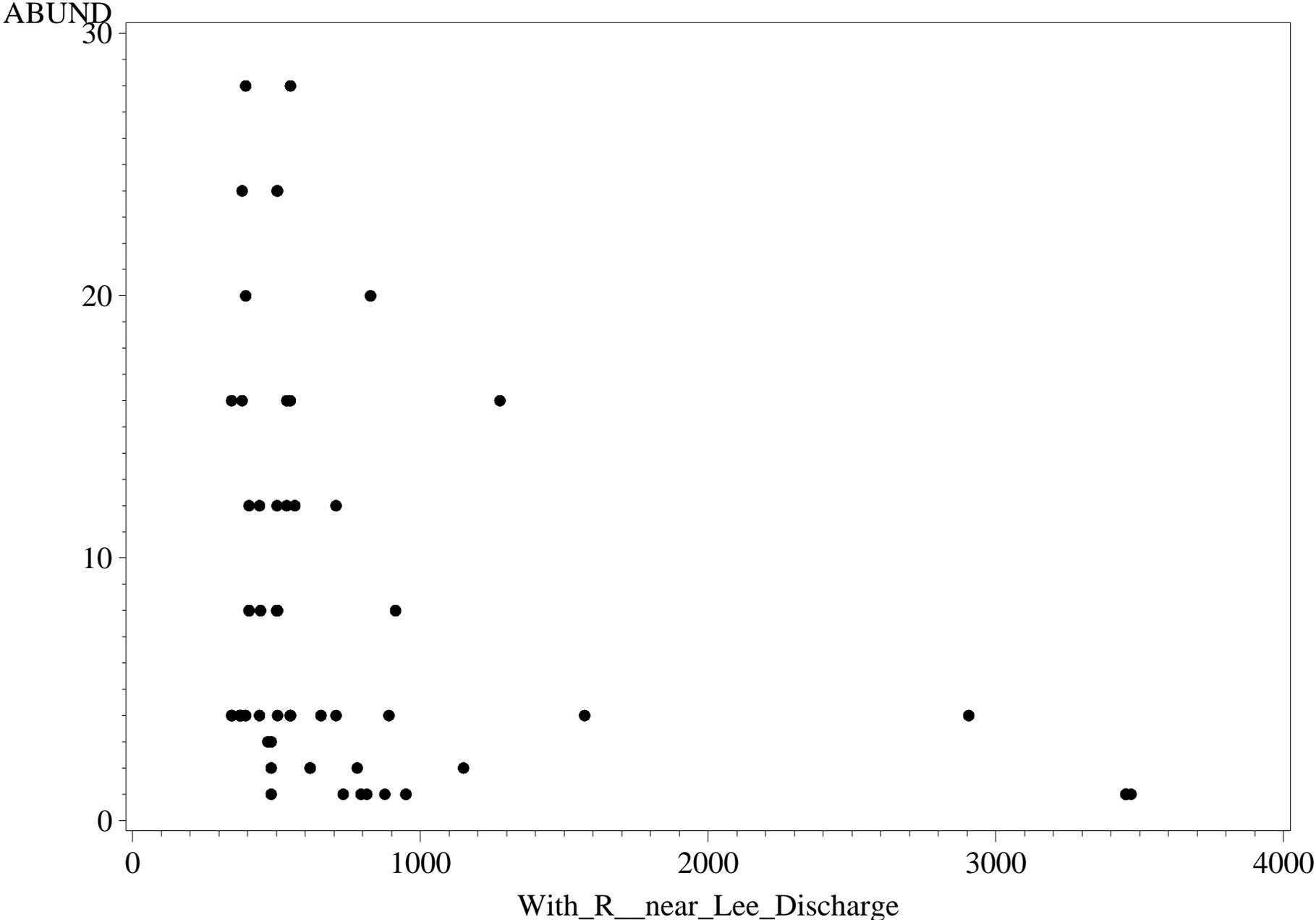


Individual Benthic Species vs. Estimated Withlacoochee Flow (at Lee)

name=DUBIRAPHIA VITTATA

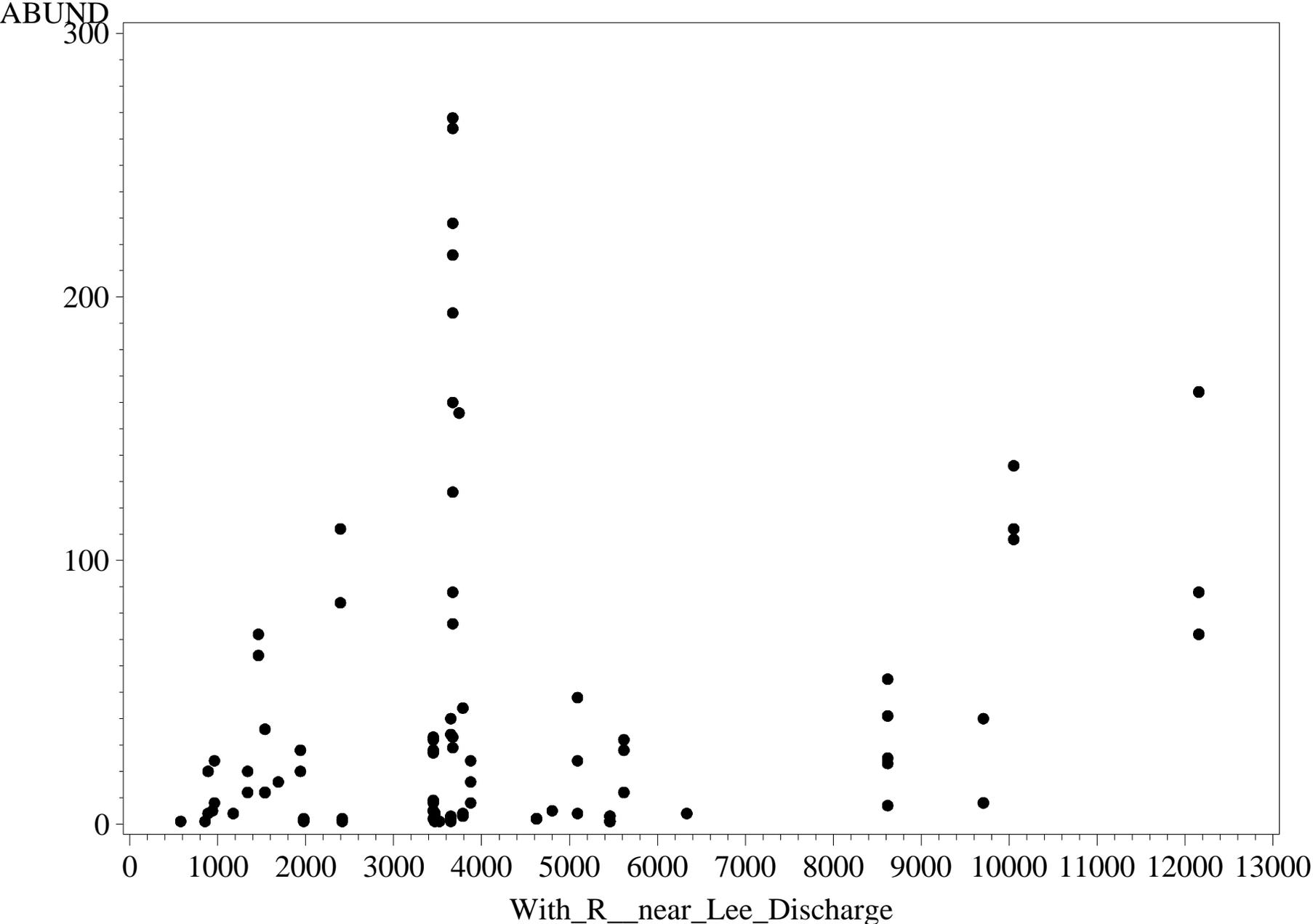


Individual Benthic Species vs. Estimated Withlacoochee Flow (at Lee)
name=DUGESIA SP.

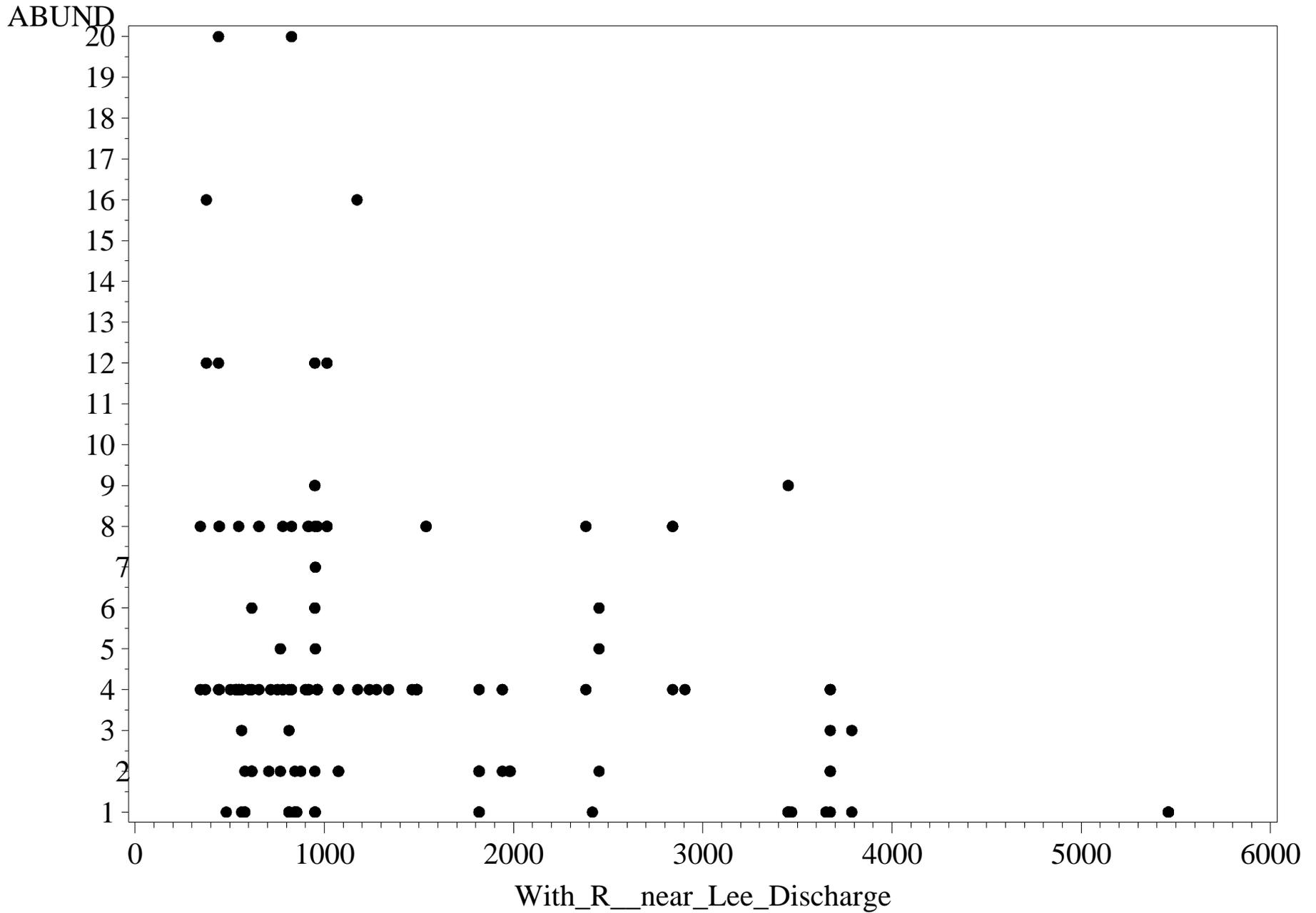


Individual Benthic Species vs. Estimated Withlacoochee Flow (at Lee)

name=EUKIEFFERIELLA DISCOLORIPES

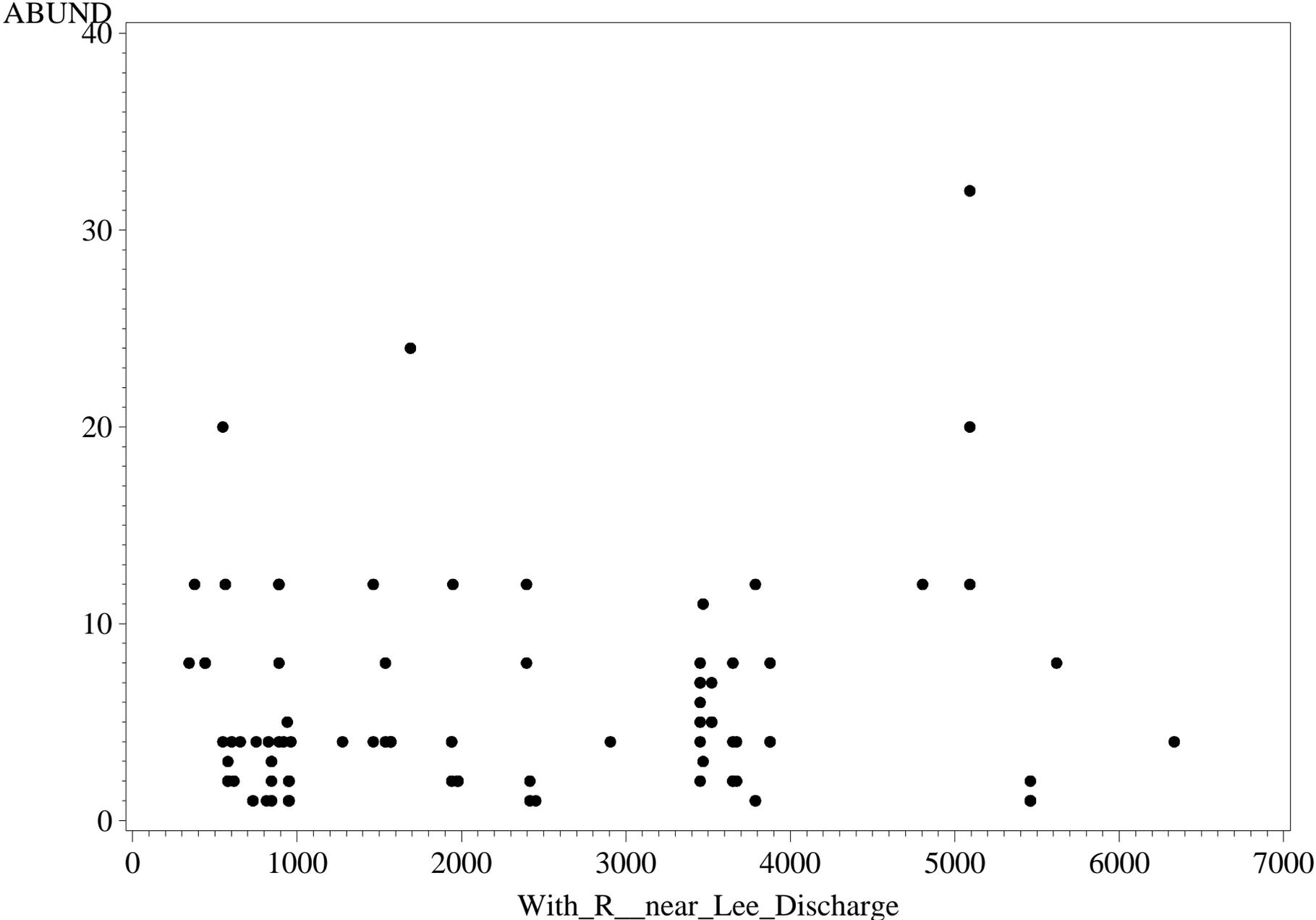


Individual Benthic Species vs. Estimated Withlacoochee Flow (at Lee)
name=FERRISSIA SP.



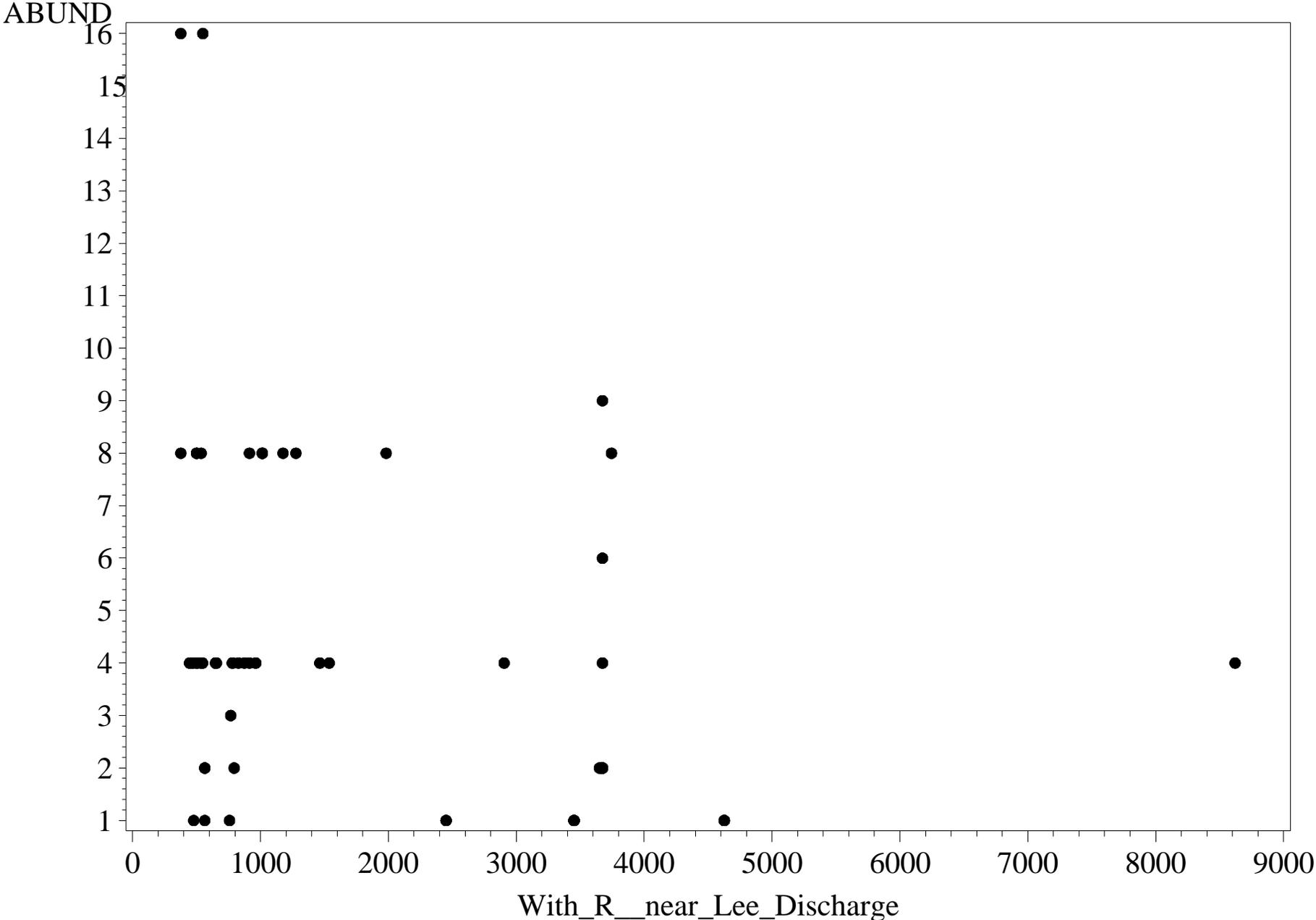
Individual Benthic Species vs. Estimated Withlacoochee Flow (at Lee)

name=HEMERODROMIA SP.

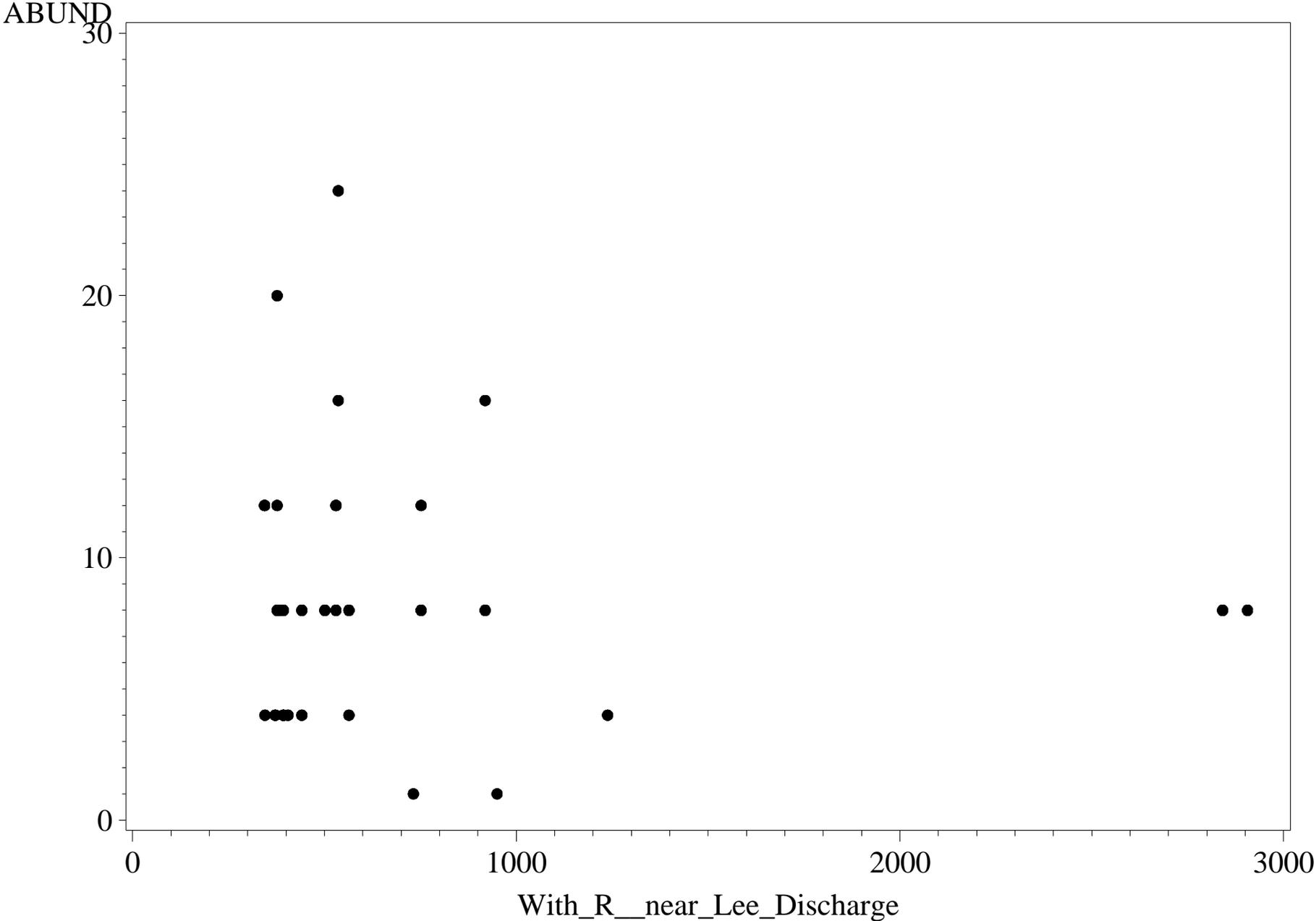


Individual Benthic Species vs. Estimated Withlacoochee Flow (at Lee)

name=HYDRA SP.

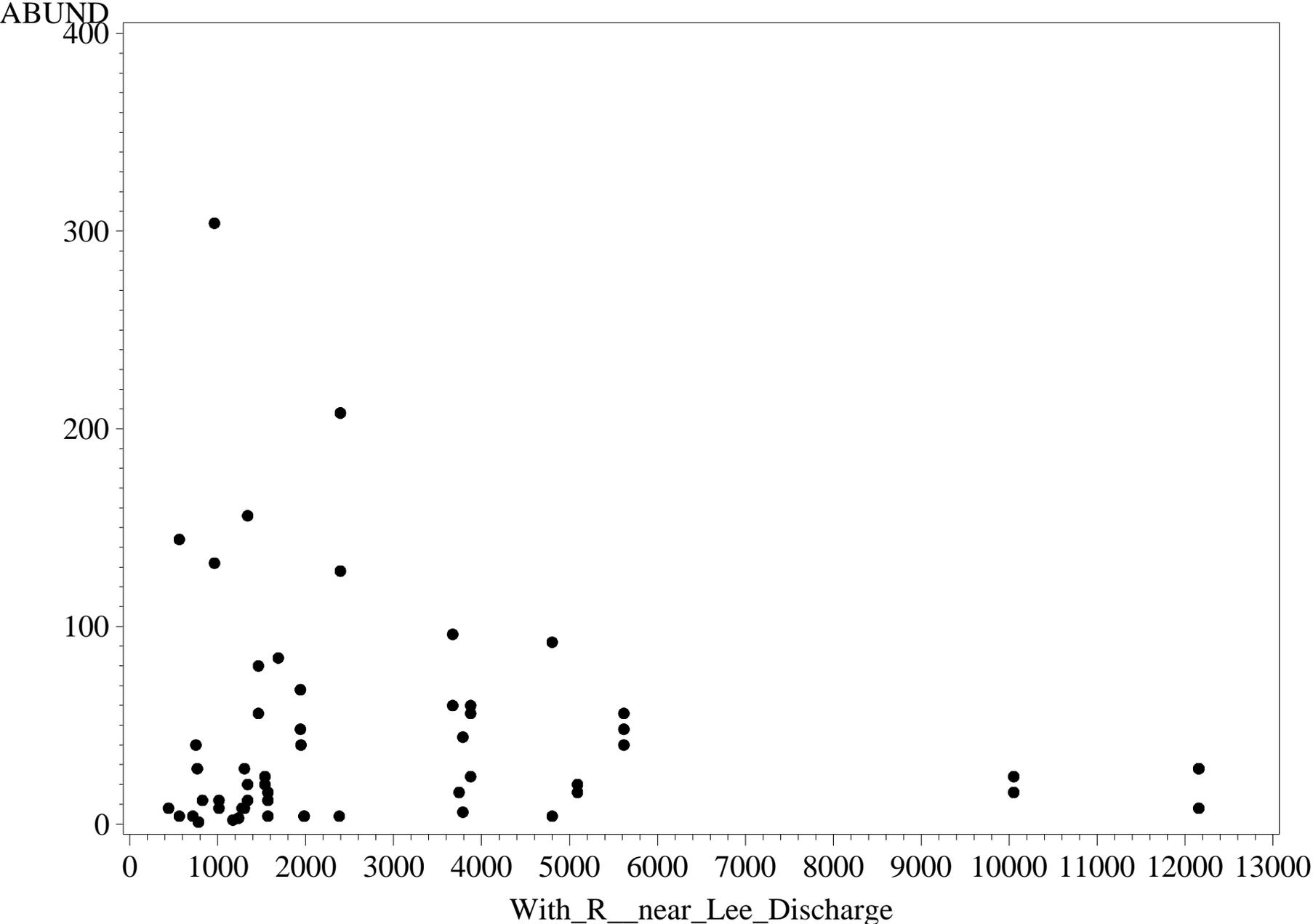


Individual Benthic Species vs. Estimated Withlacoochee Flow (at Lee)
name=HYDRODROMA SP.



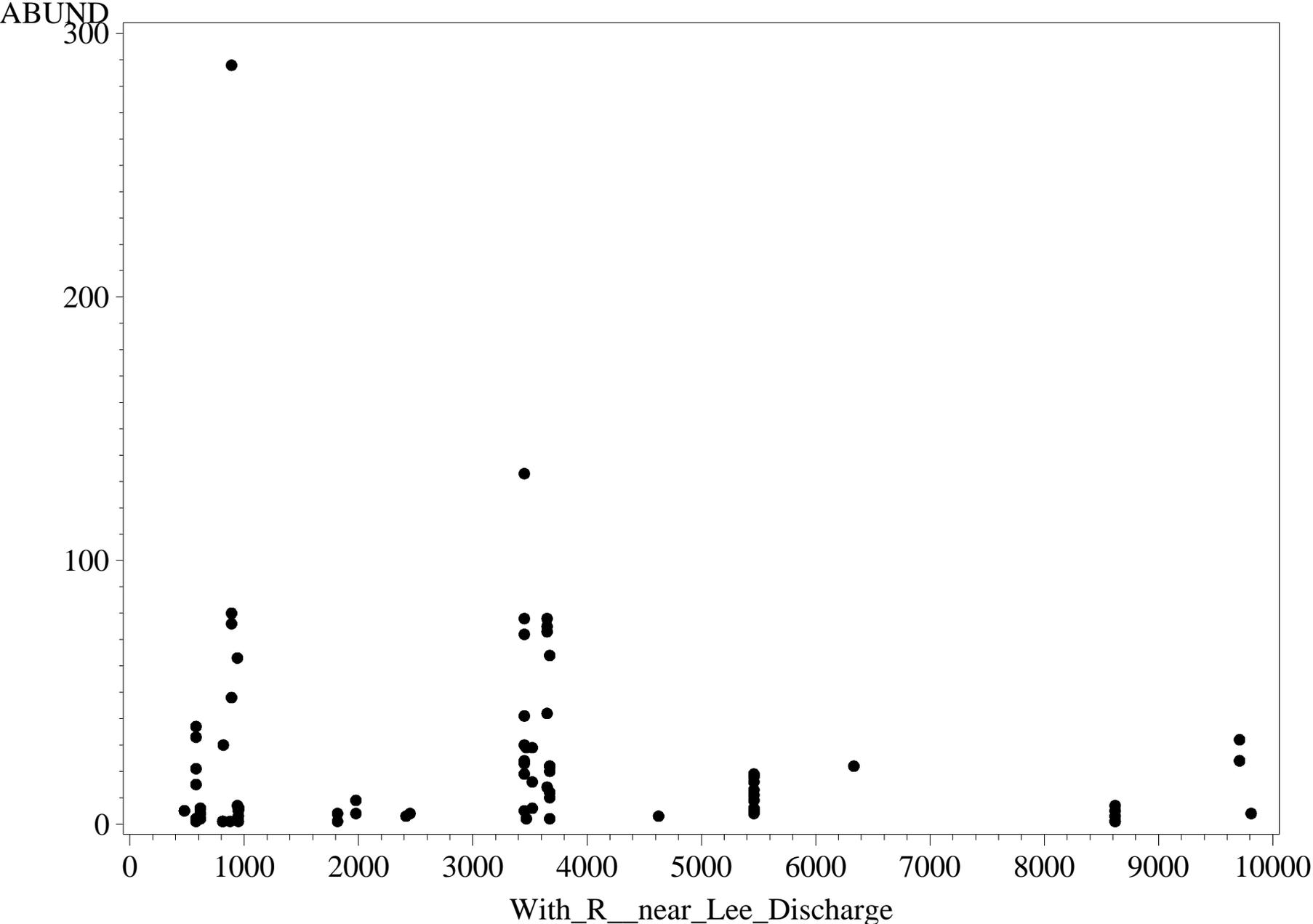
Individual Benthic Species vs. Estimated Withlacoochee Flow (at Lee)

name=HYDROPSYCHE ROSSI



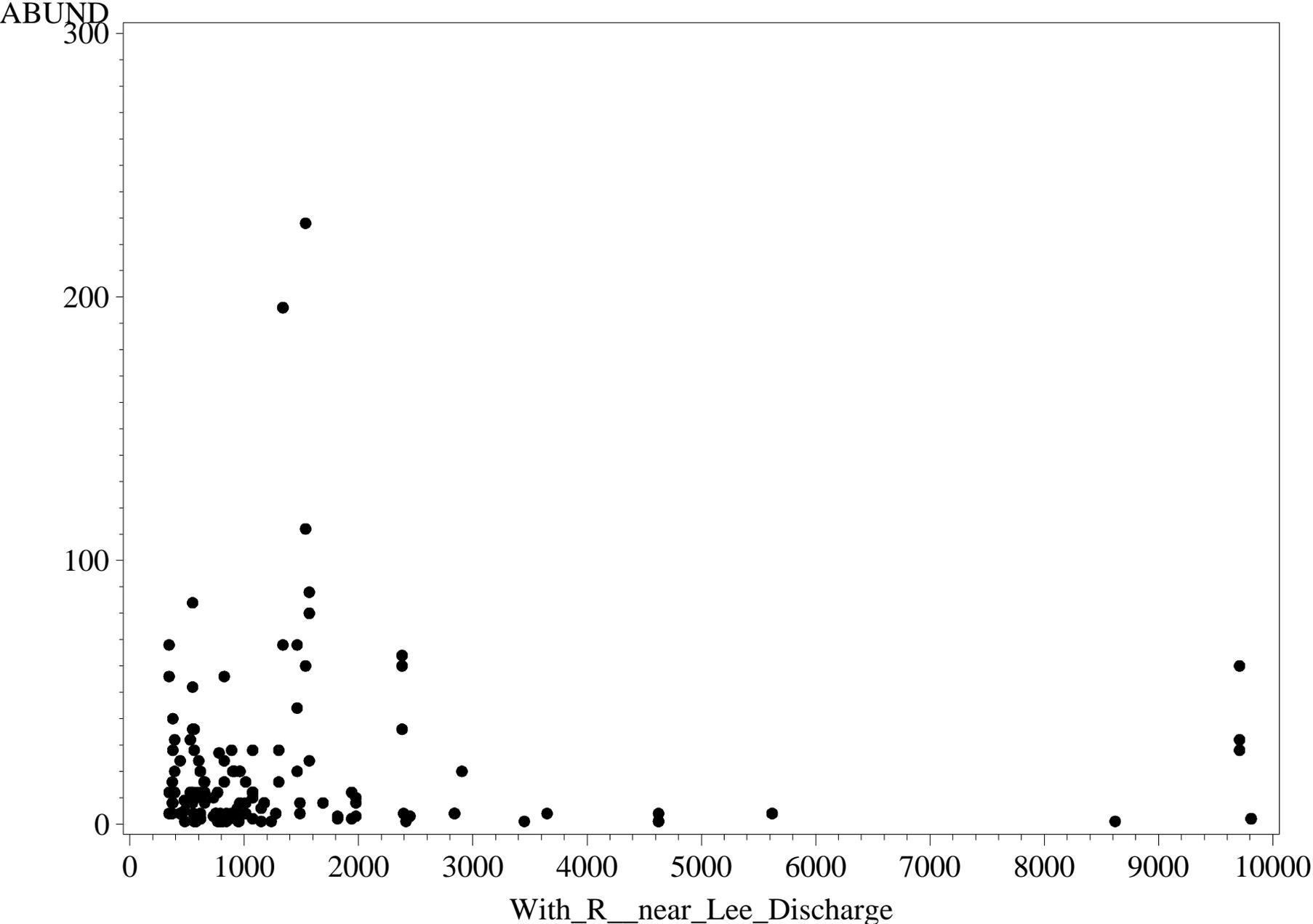
Individual Benthic Species vs. Estimated Withlacoochee Flow (at Lee)

name=HYDROPSYCHE SIMULANS



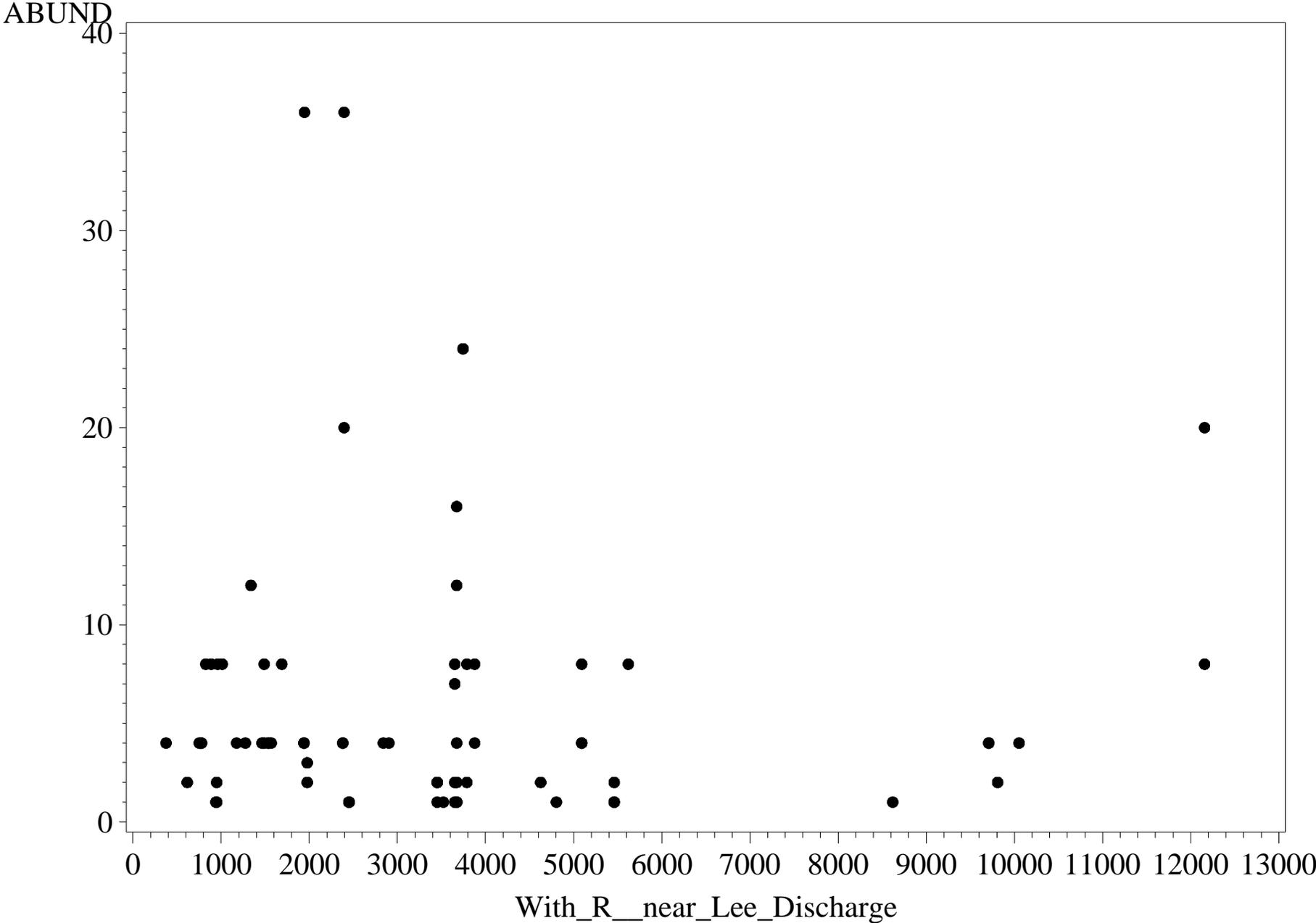
Individual Benthic Species vs. Estimated Withlacoochee Flow (at Lee)

name=HYDROPTILA SP.



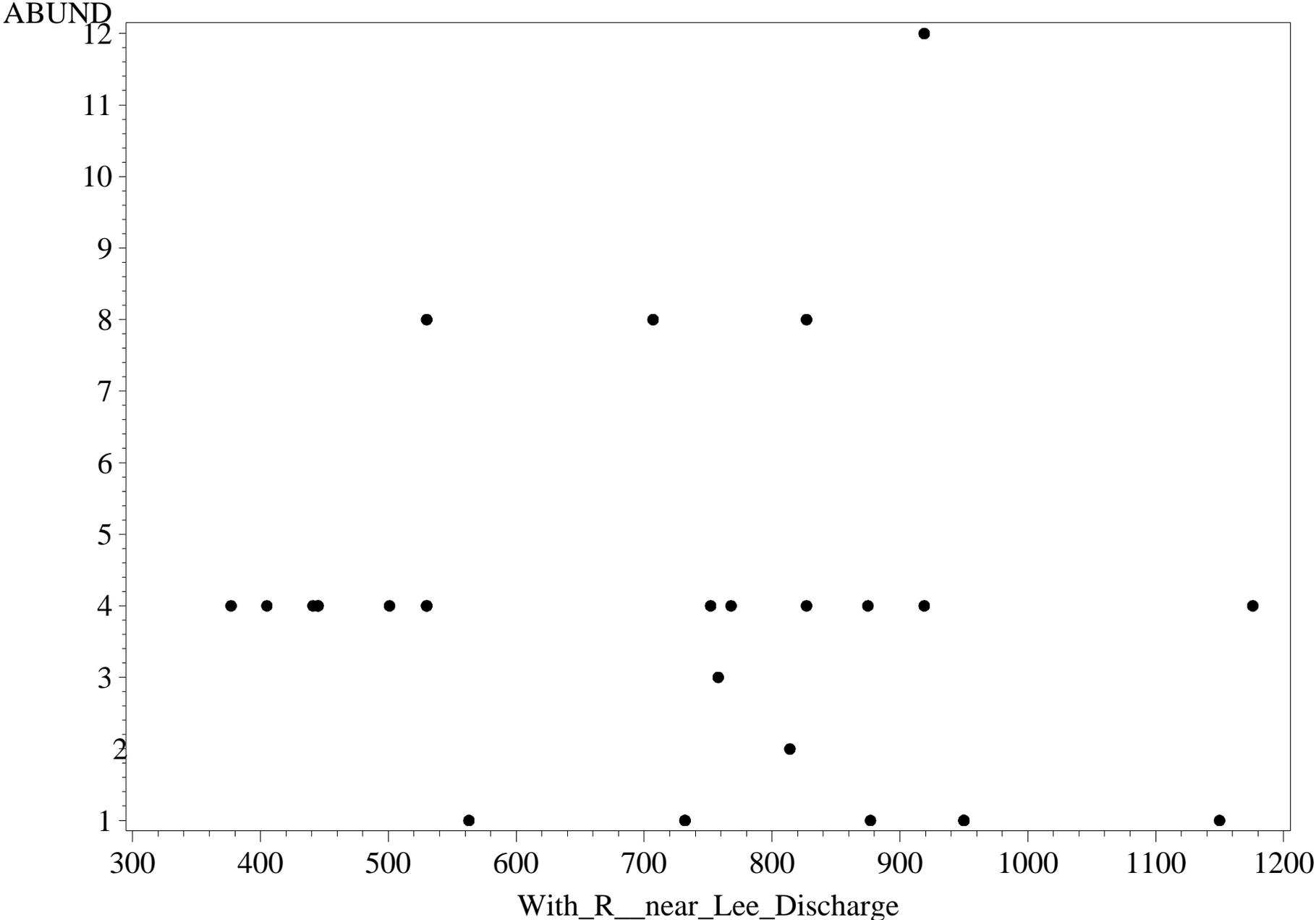
Individual Benthic Species vs. Estimated Withlacoochee Flow (at Lee)

name=ISONYCHIA SP.



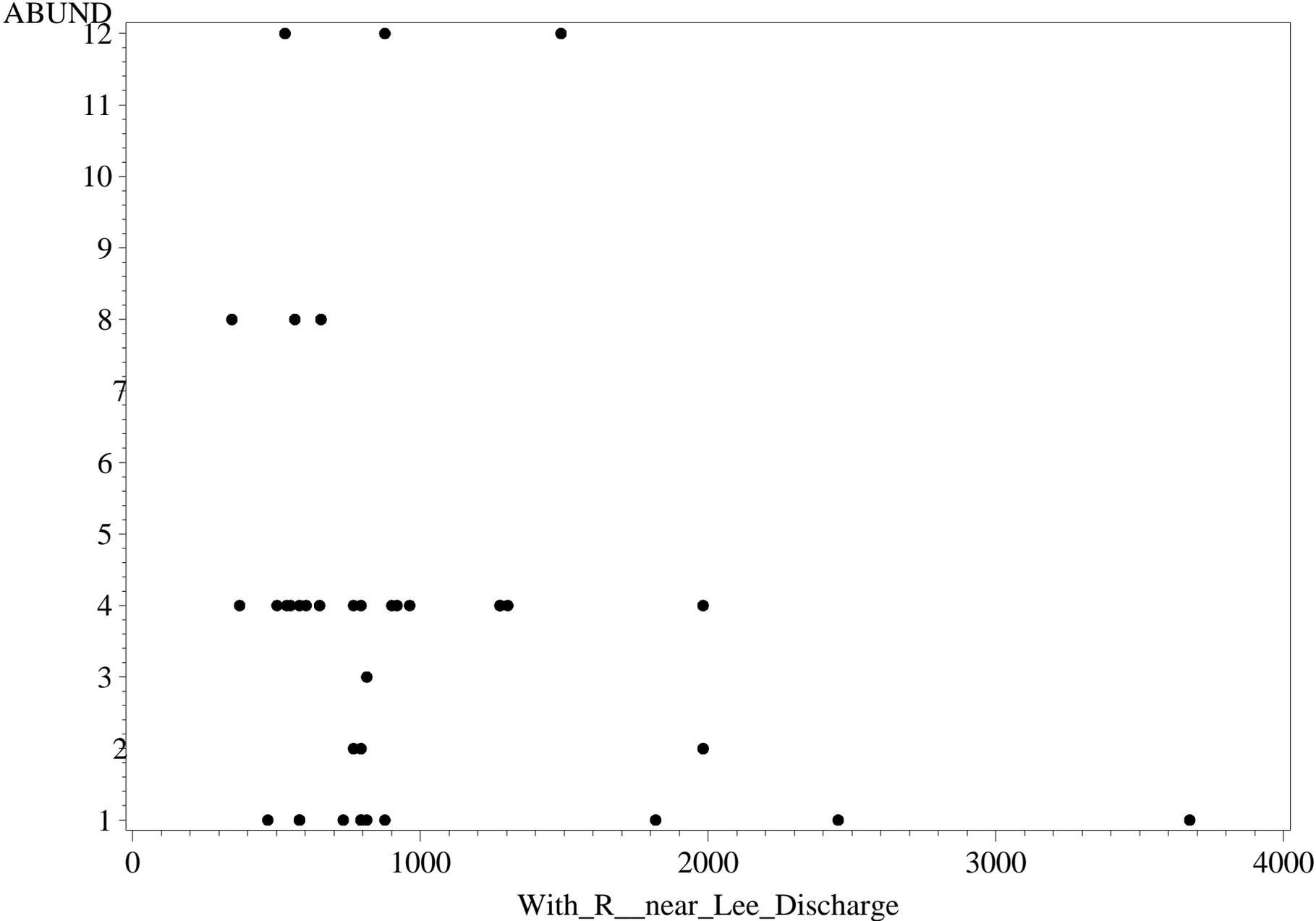
Individual Benthic Species vs. Estimated Withlacoochee Flow (at Lee)

name=ISOTOMURUS SP.



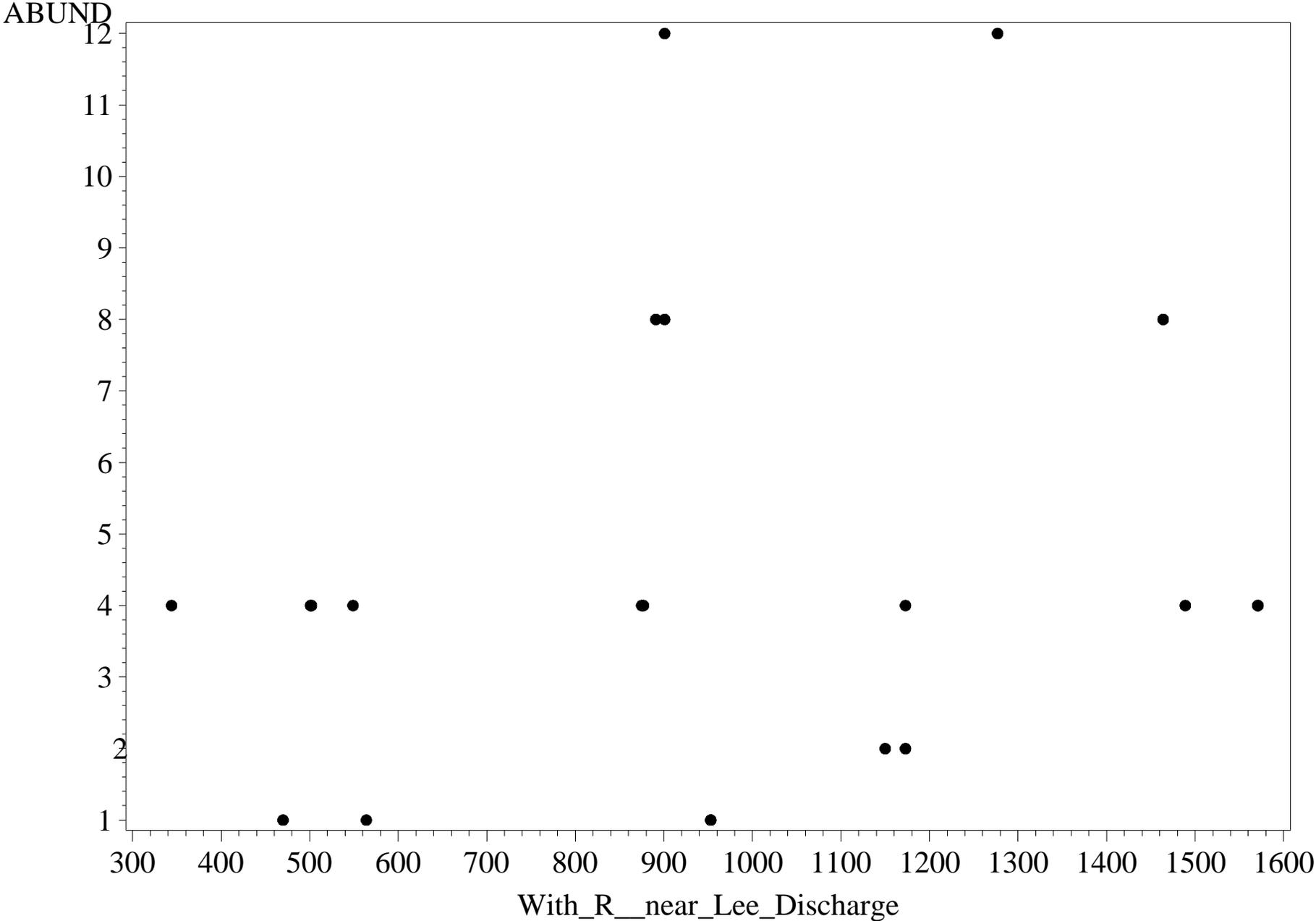
Individual Benthic Species vs. Estimated Withlacoochee Flow (at Lee)

name=LABRUNDINIA PILOSELLA



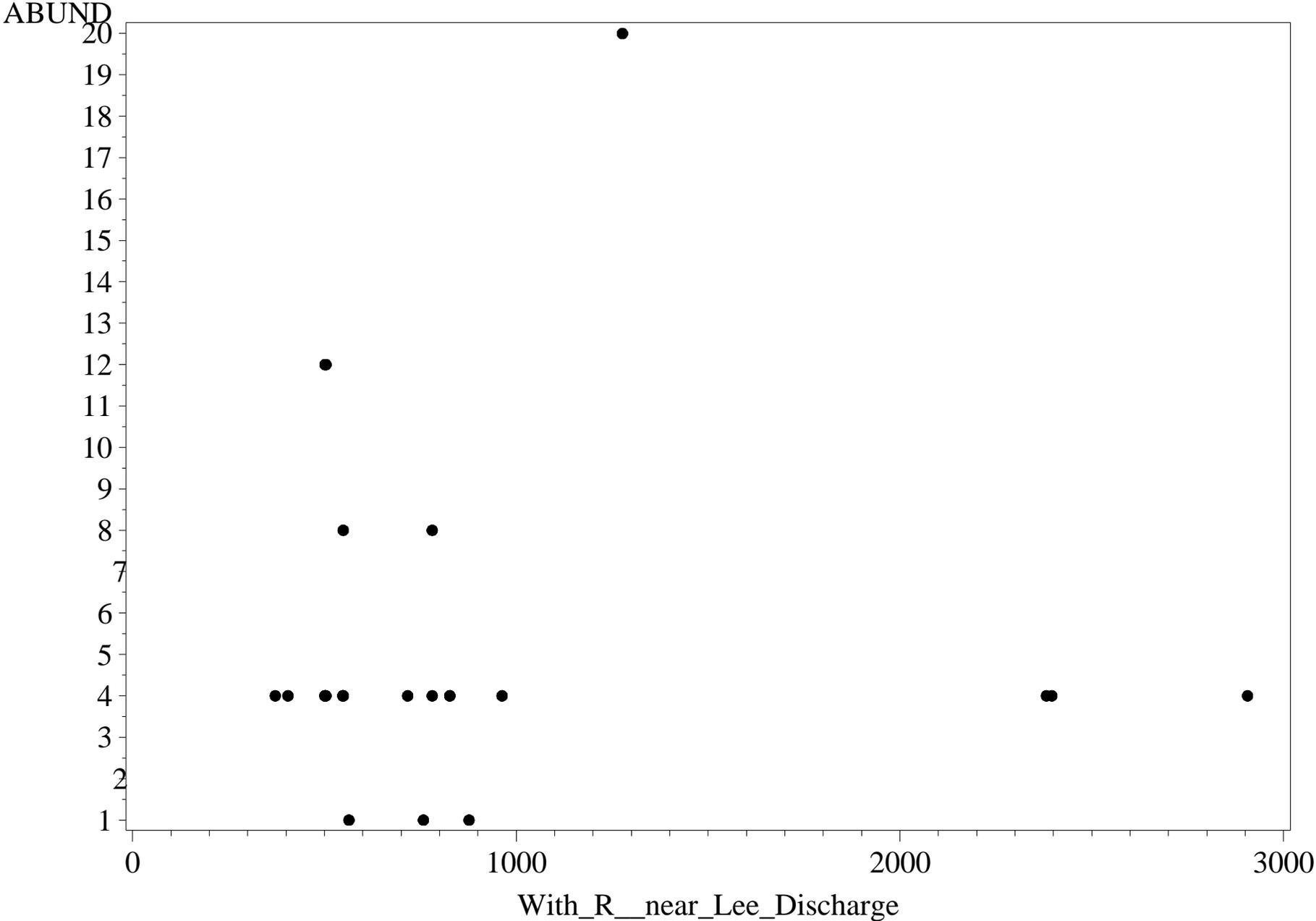
Individual Benthic Species vs. Estimated Withlacoochee Flow (at Lee)

name=LEBERTIA SP.



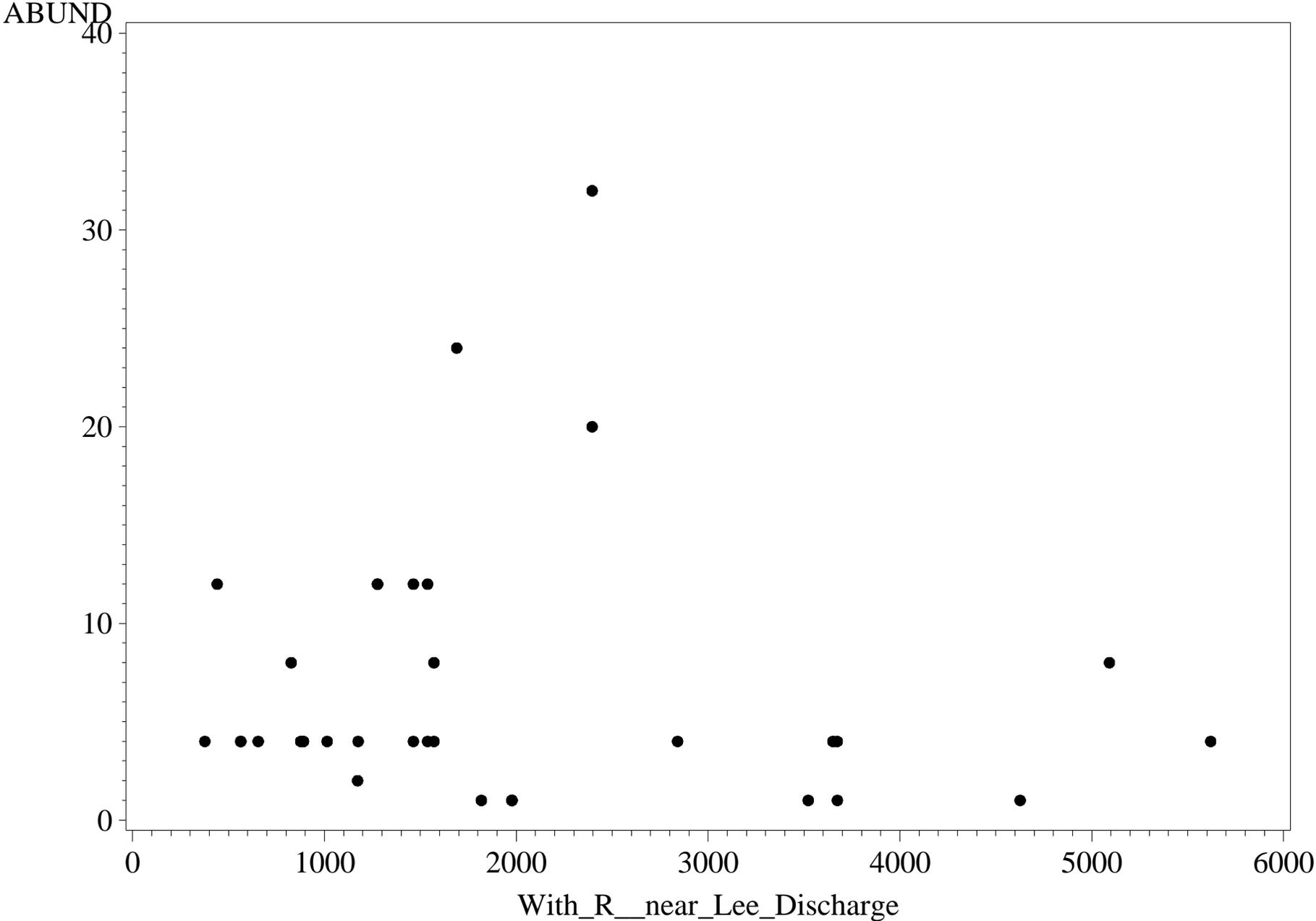
Individual Benthic Species vs. Estimated Withlacoochee Flow (at Lee)

name=MIDEOPSIS SP.



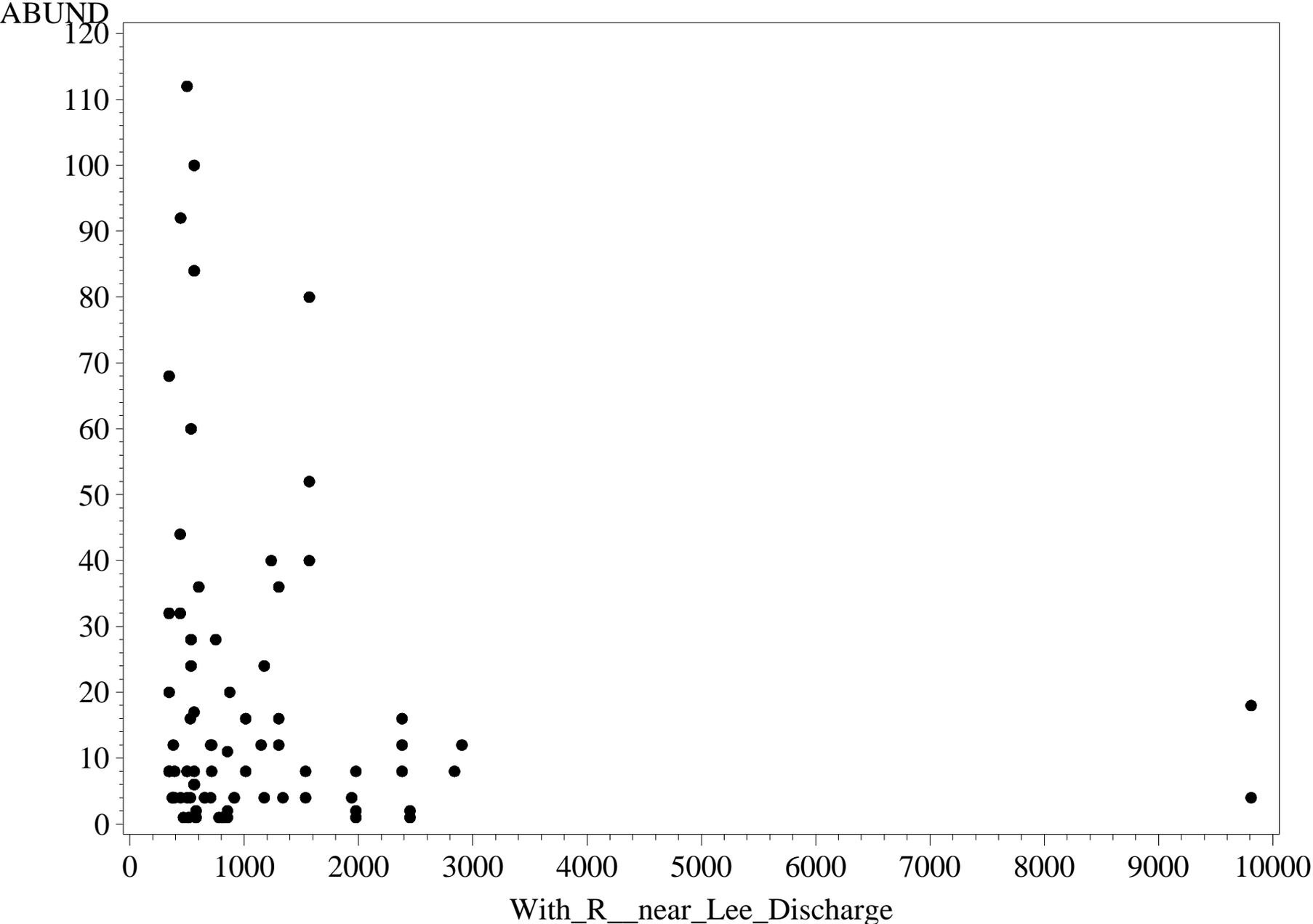
Individual Benthic Species vs. Estimated Withlacoochee Flow (at Lee)

name=NAIS BEHNINGI



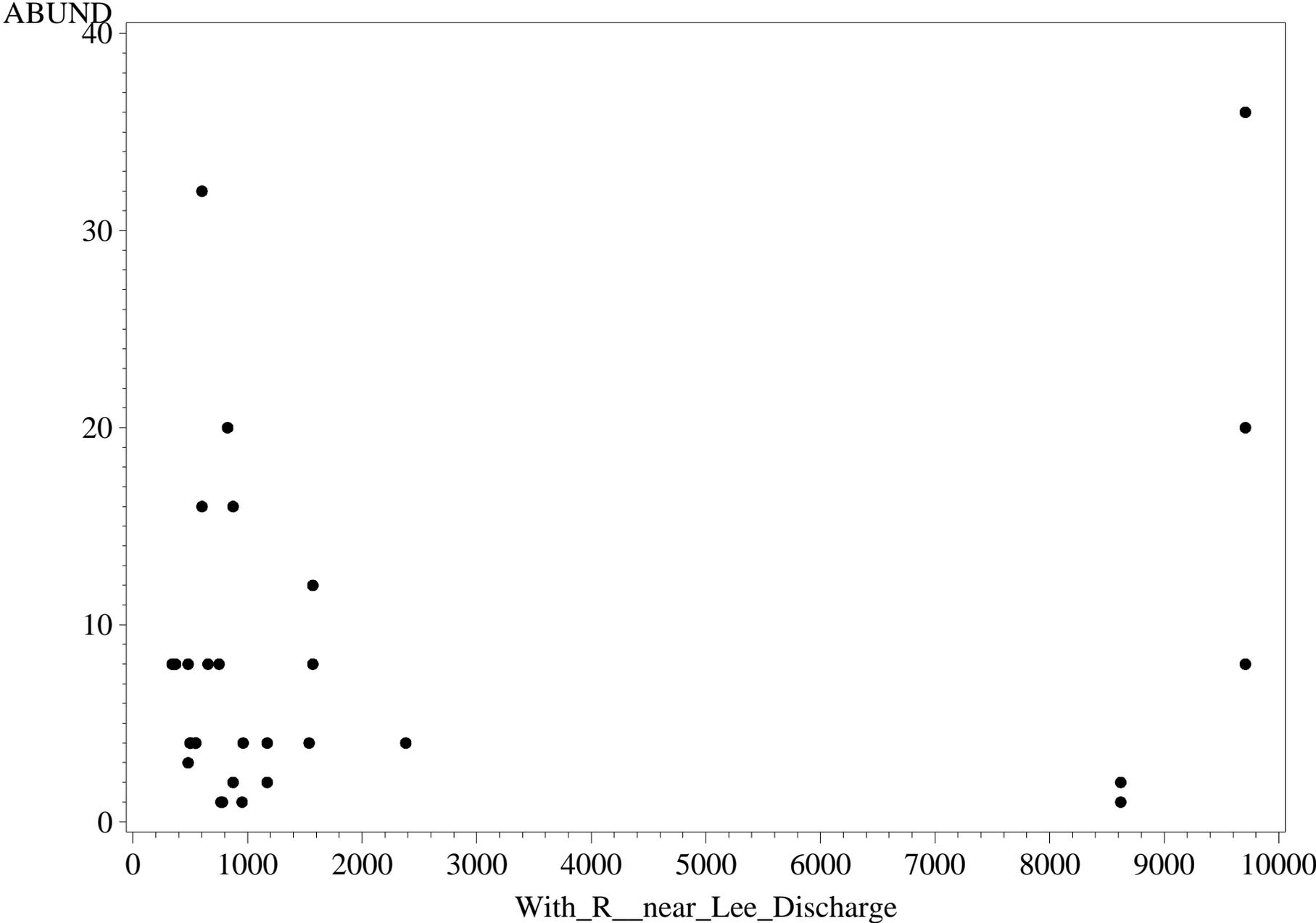
Individual Benthic Species vs. Estimated Withlacoochee Flow (at Lee)

name=NAIS ELINGUIS



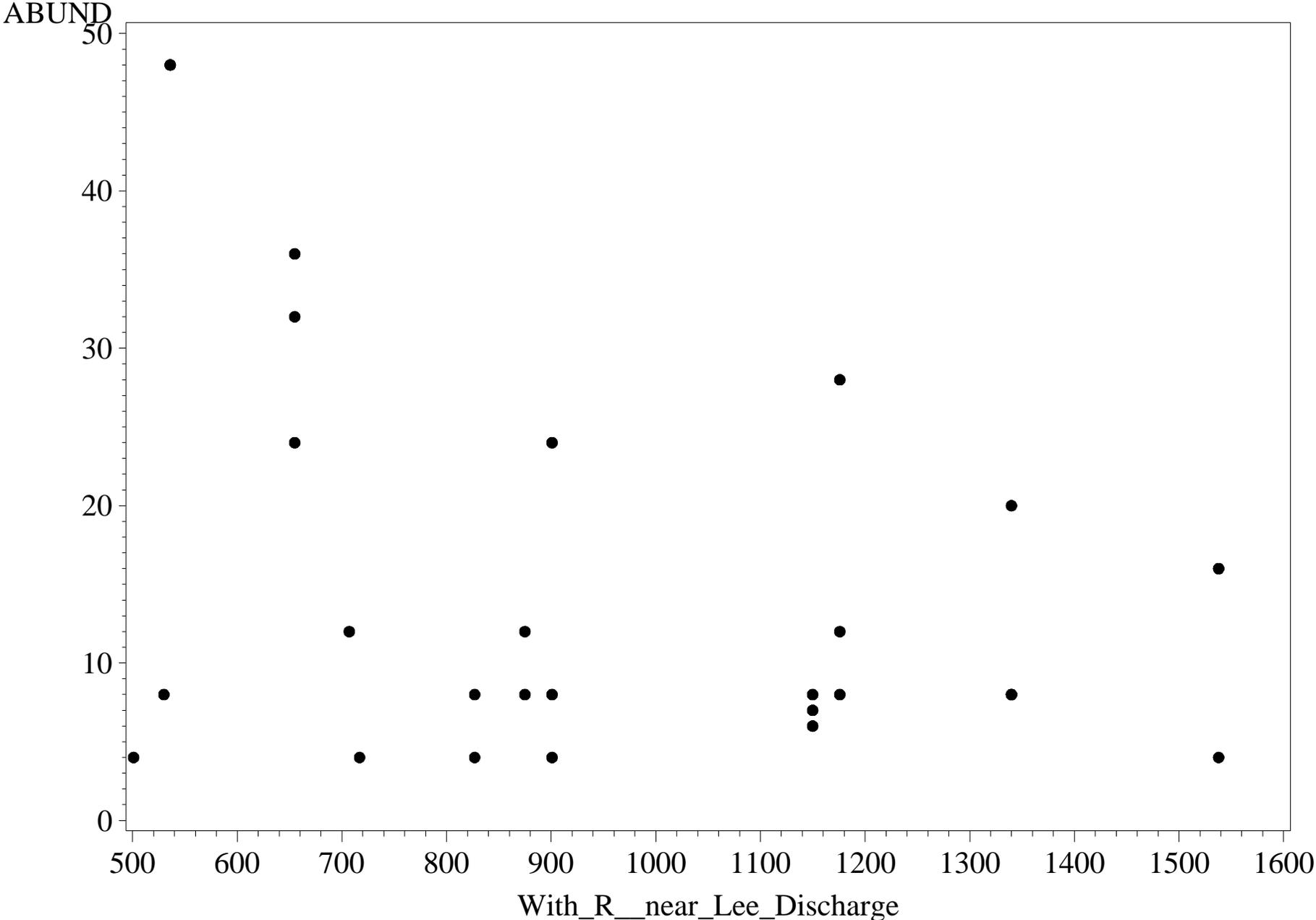
Individual Benthic Species vs. Estimated Withlacoochee Flow (at Lee)

name=NAIS VARIABILIS

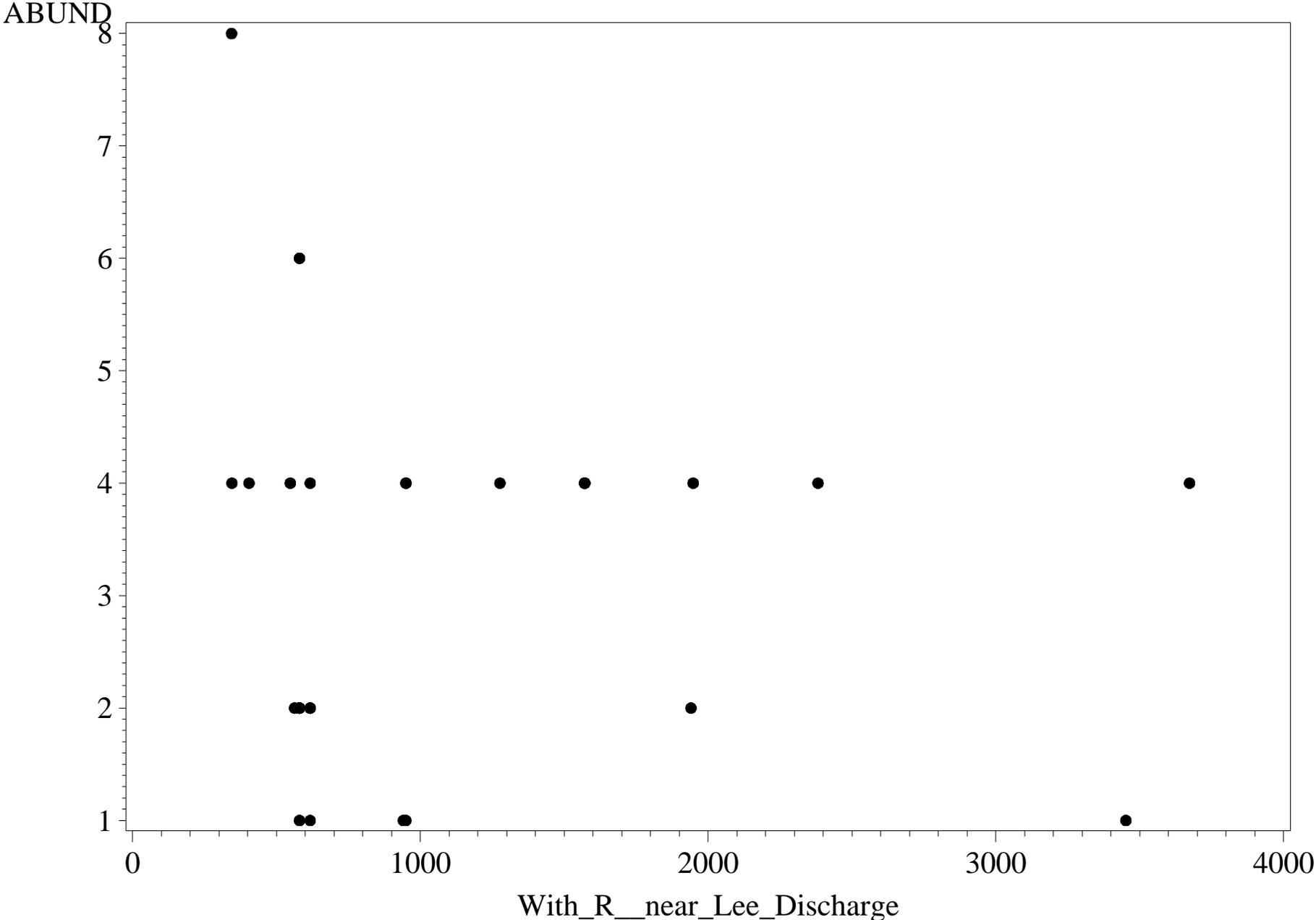


Individual Benthic Species vs. Estimated Withlacoochee Flow (at Lee)

name=NANOCLADIUS RECTINERVIS

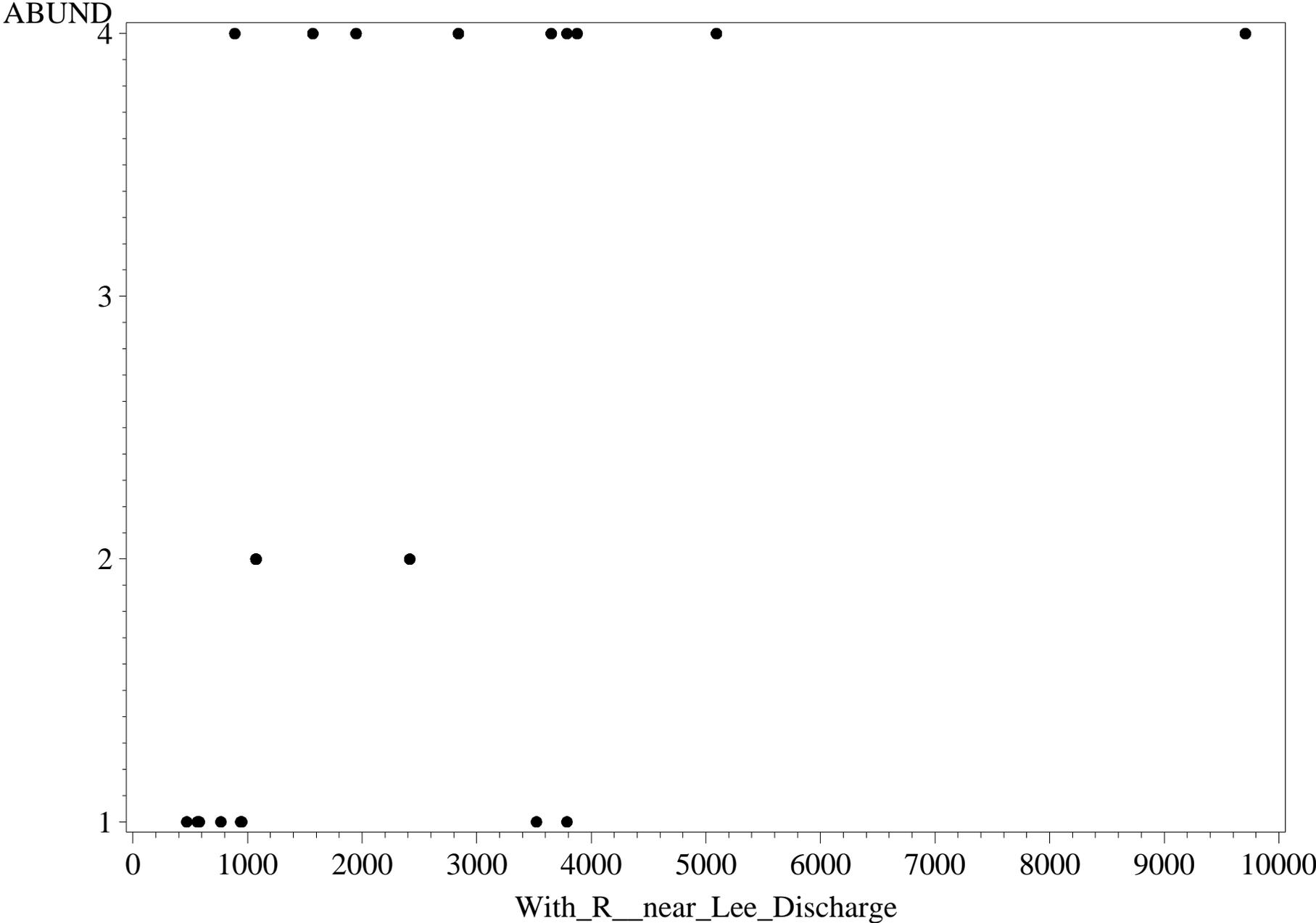


Individual Benthic Species vs. Estimated Withlacoochee Flow (at Lee)
name=NECTOPSYCHE EXQUISITA



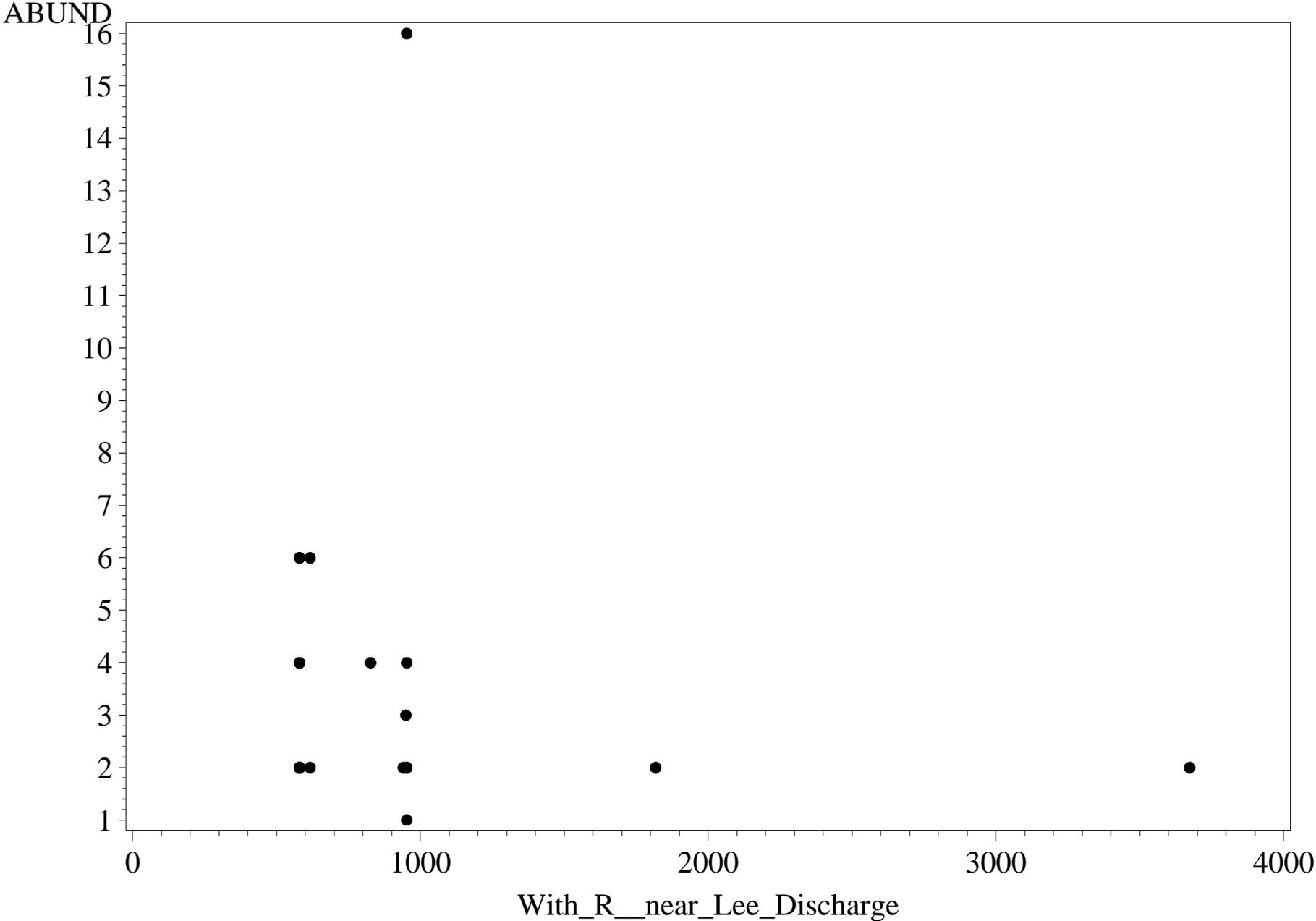
Individual Benthic Species vs. Estimated Withlacoochee Flow (at Lee)

name=NEOPERLA SP.



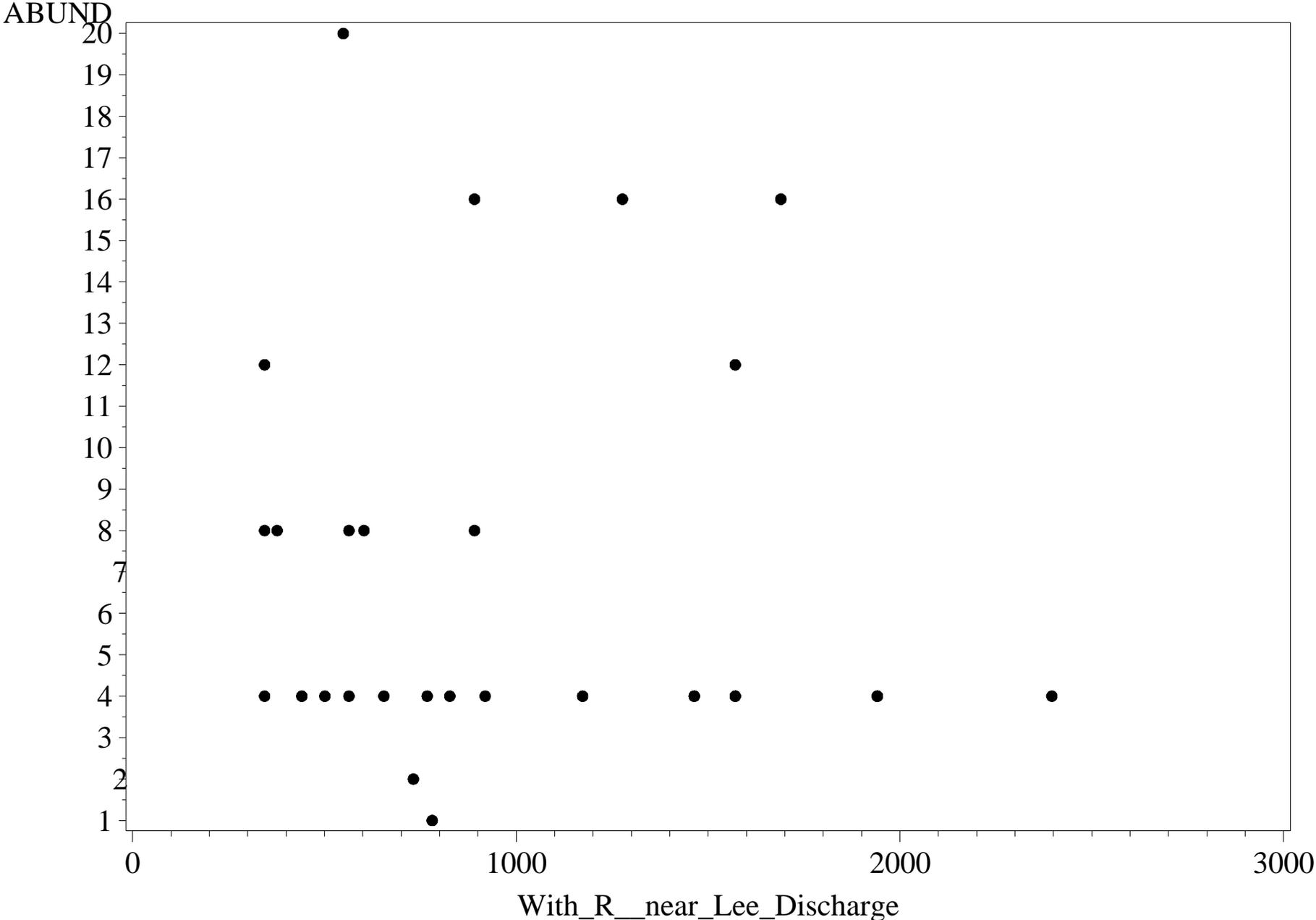
Individual Benthic Species vs. Estimated Withlacoochee Flow (at Lee)

name=NEURECLIPSIS SP.



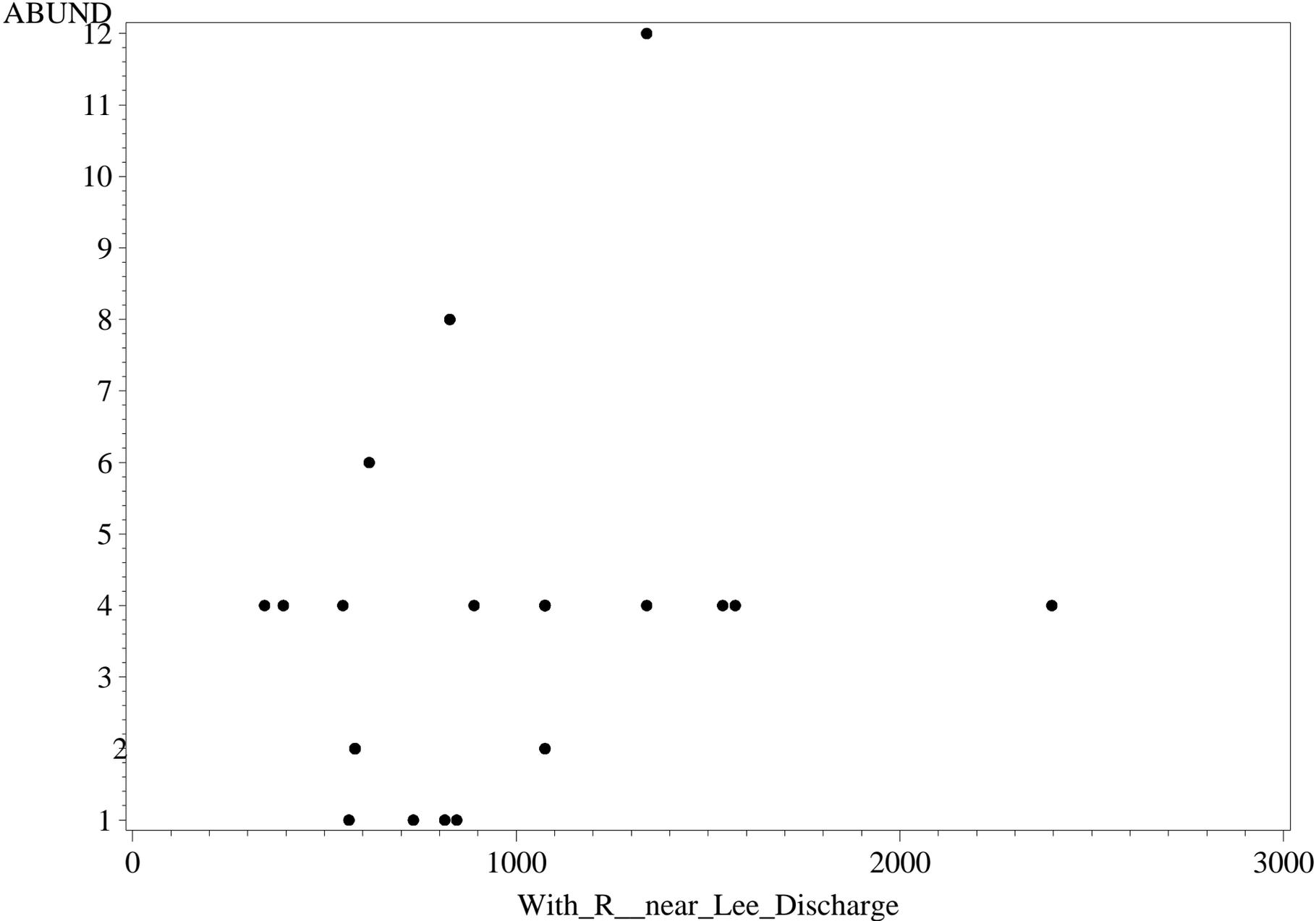
Individual Benthic Species vs. Estimated Withlacoochee Flow (at Lee)

name=OECETIS PERSIMILIS



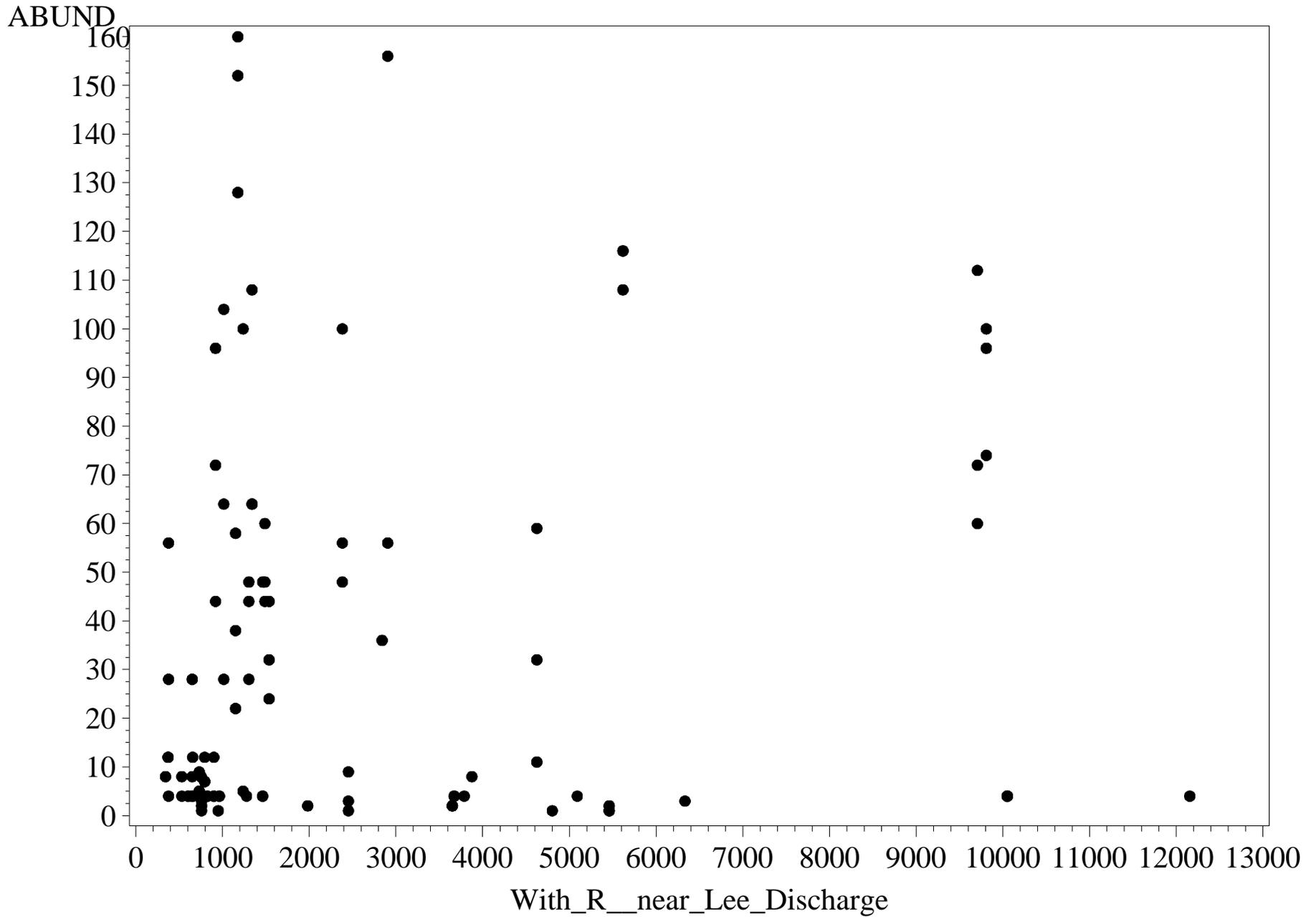
Individual Benthic Species vs. Estimated Withlacoochee Flow (at Lee)

name=OECETIS SP.



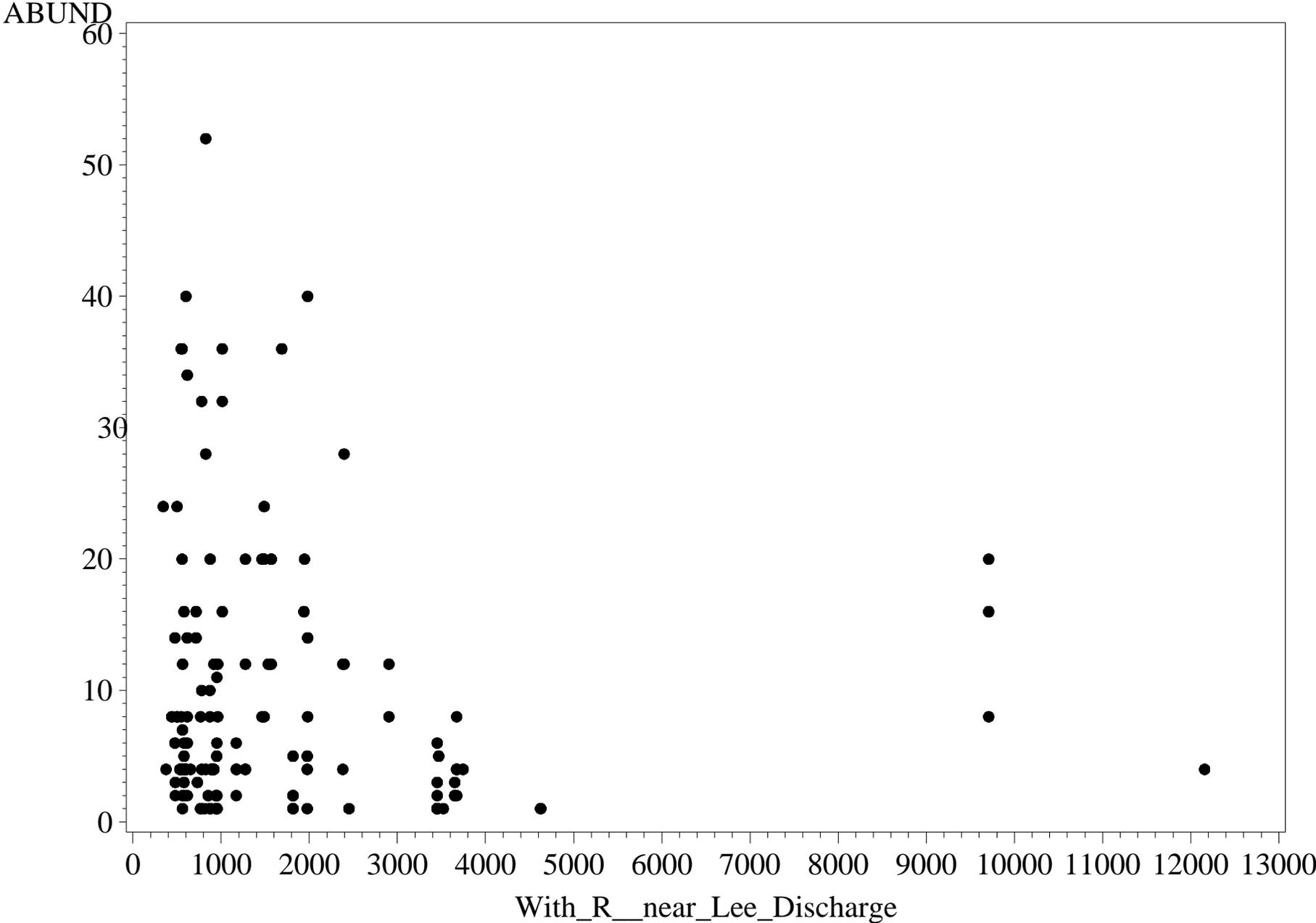
Individual Benthic Species vs. Estimated Withlacoochee Flow (at Lee)

name=PARAKIEFFERIELLA SP. B

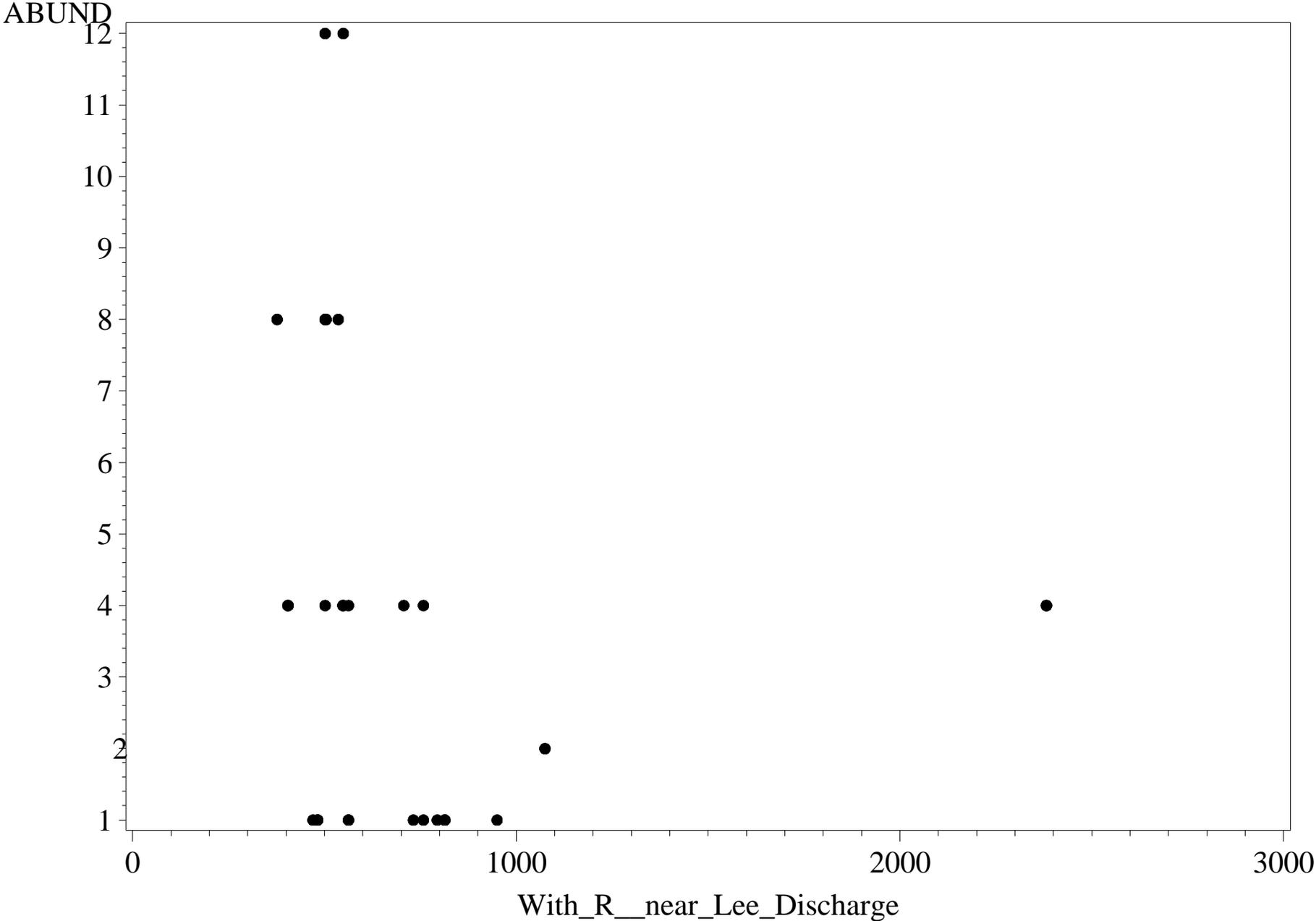


Individual Benthic Species vs. Estimated Withlacoochee Flow (at Lee)

name=PENTANEURA INCONSPICUA

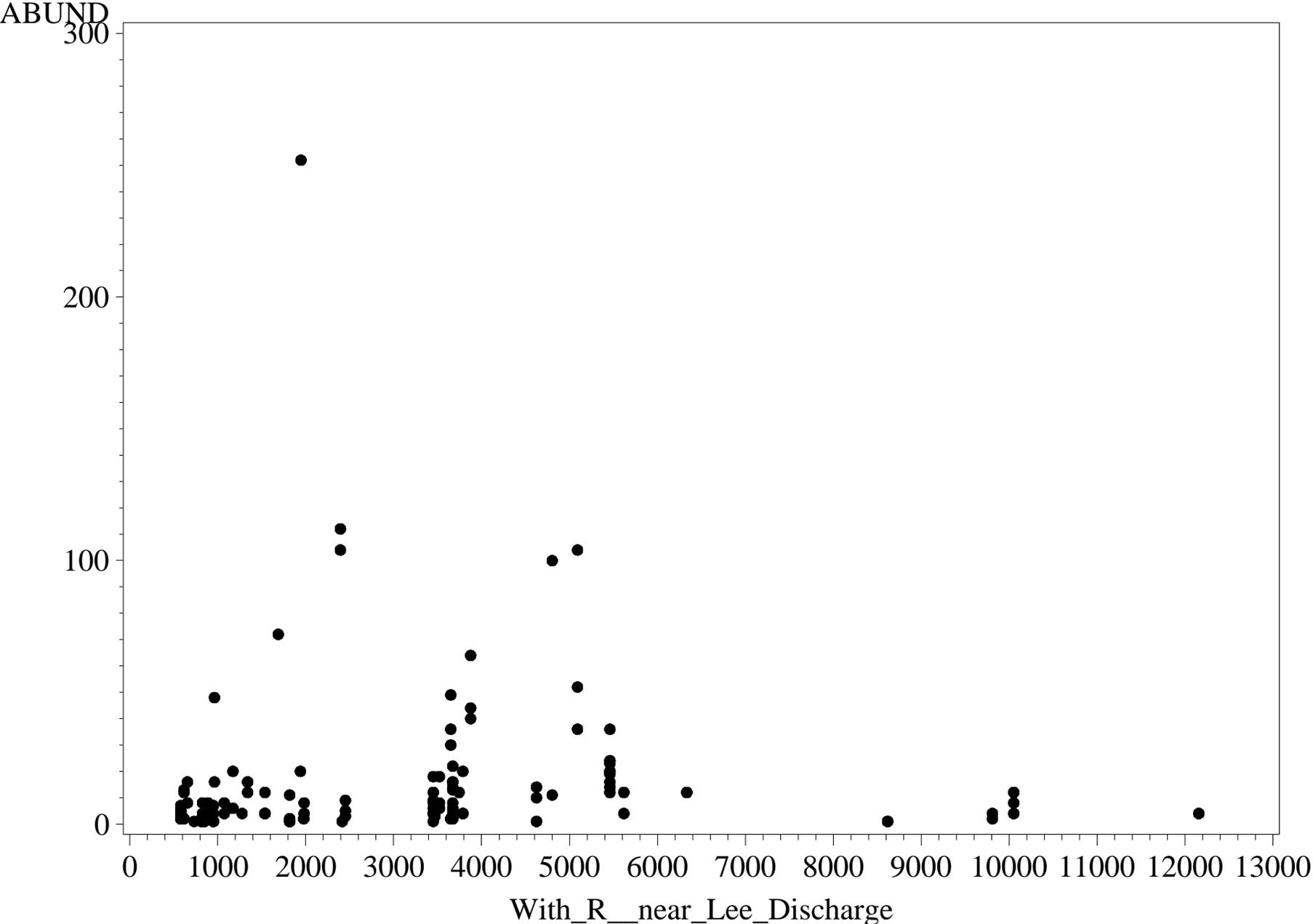


Individual Benthic Species vs. Estimated Withlacoochee Flow (at Lee)
name=PHYSELLA SP.

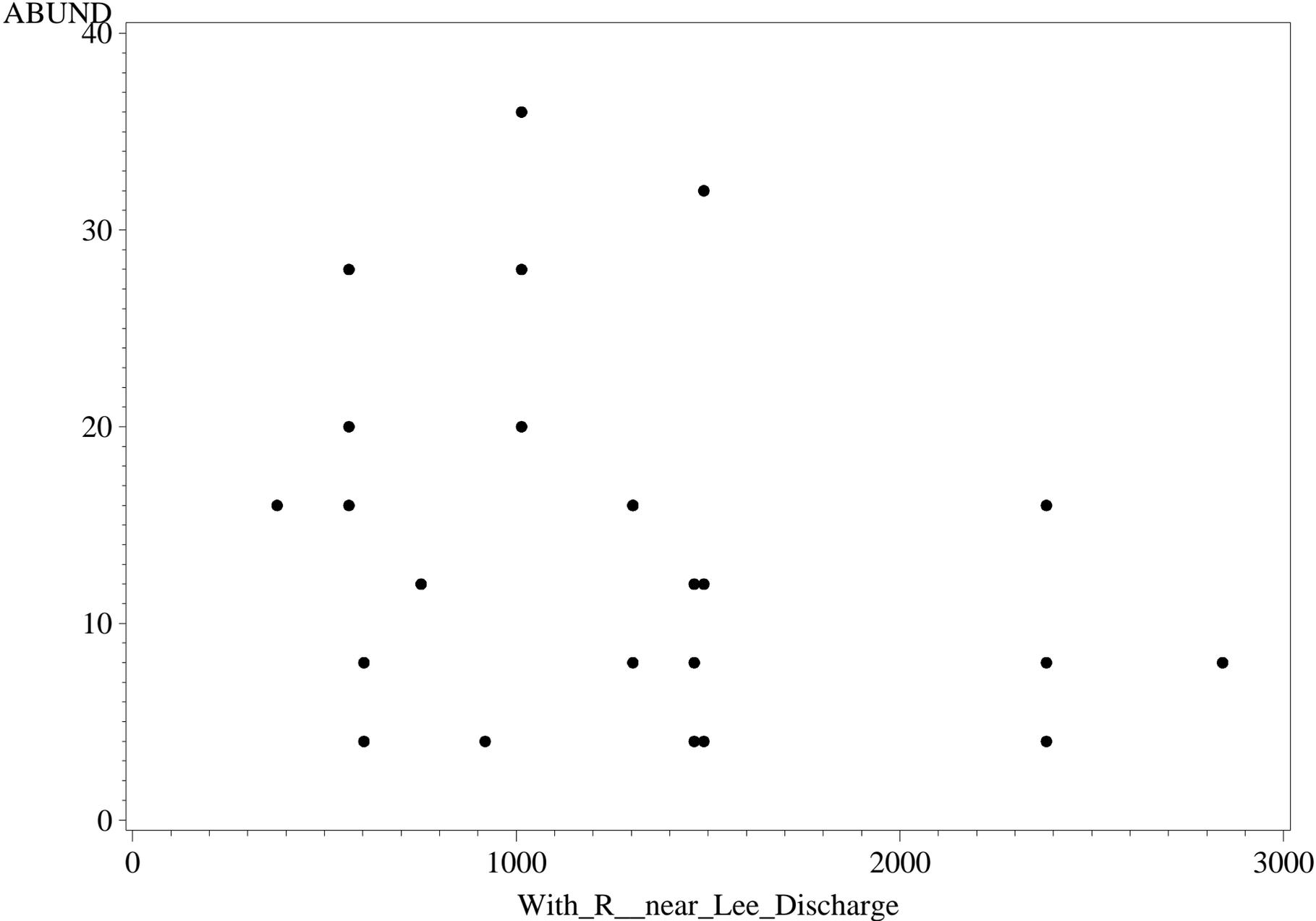


Individual Benthic Species vs. Estimated Withlacoochee Flow (at Lee)

name=POLYPEDILUM CONVICTUM

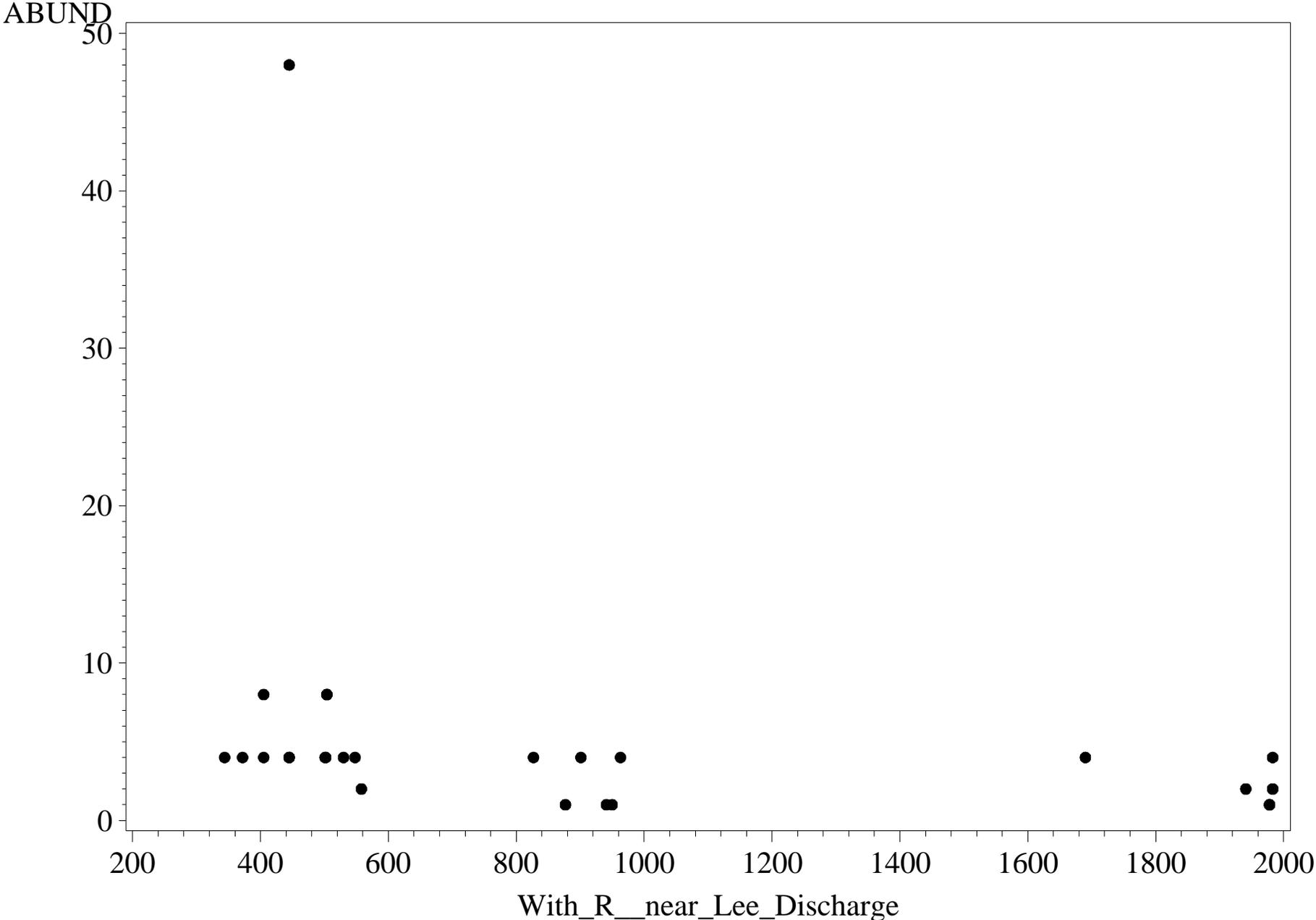


Individual Benthic Species vs. Estimated Withlacoochee Flow (at Lee)
name=POLYPEDILUM FLAVUM



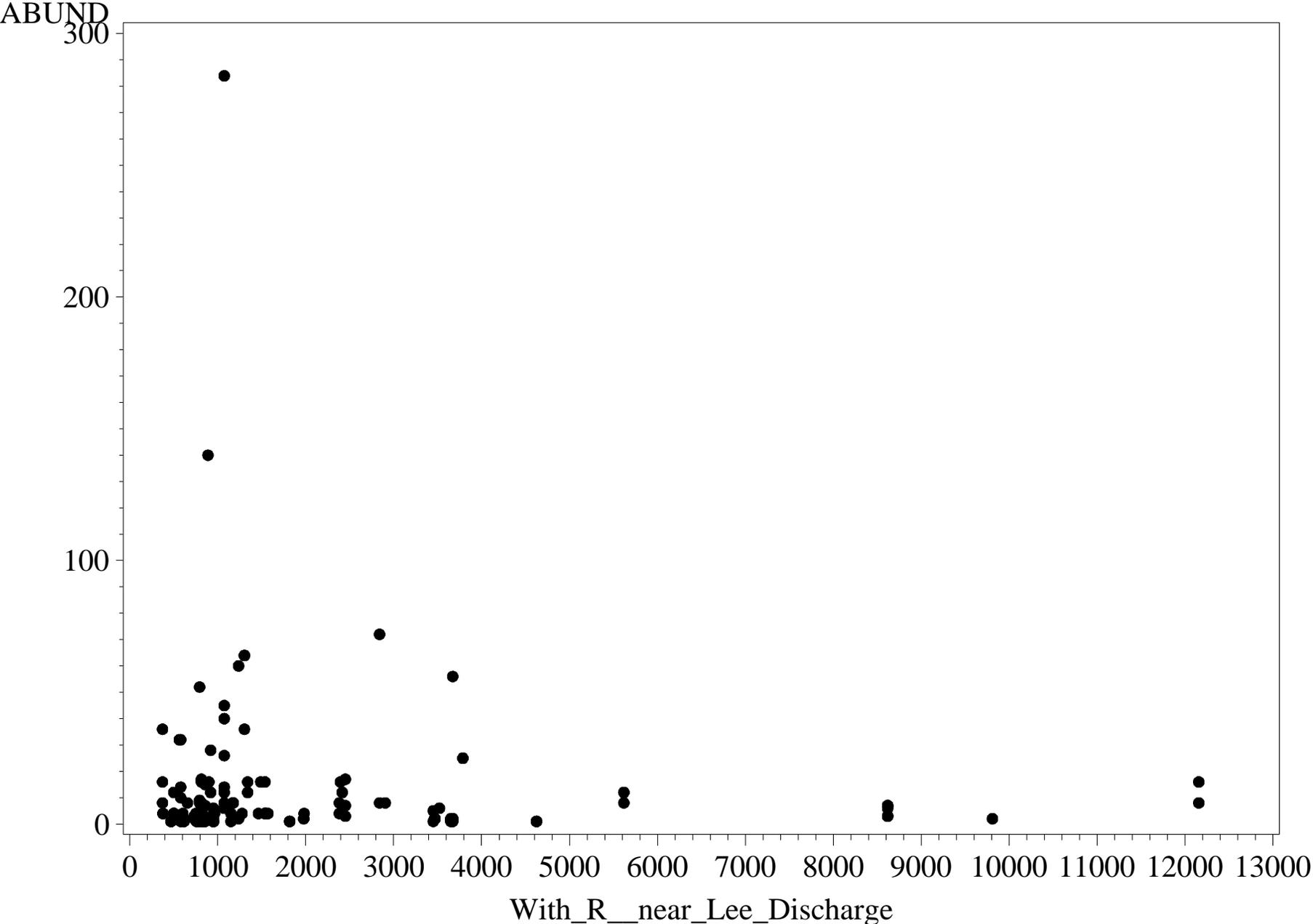
Individual Benthic Species vs. Estimated Withlacoochee Flow (at Lee)

name=POLYPEDILUM HALTERALE G



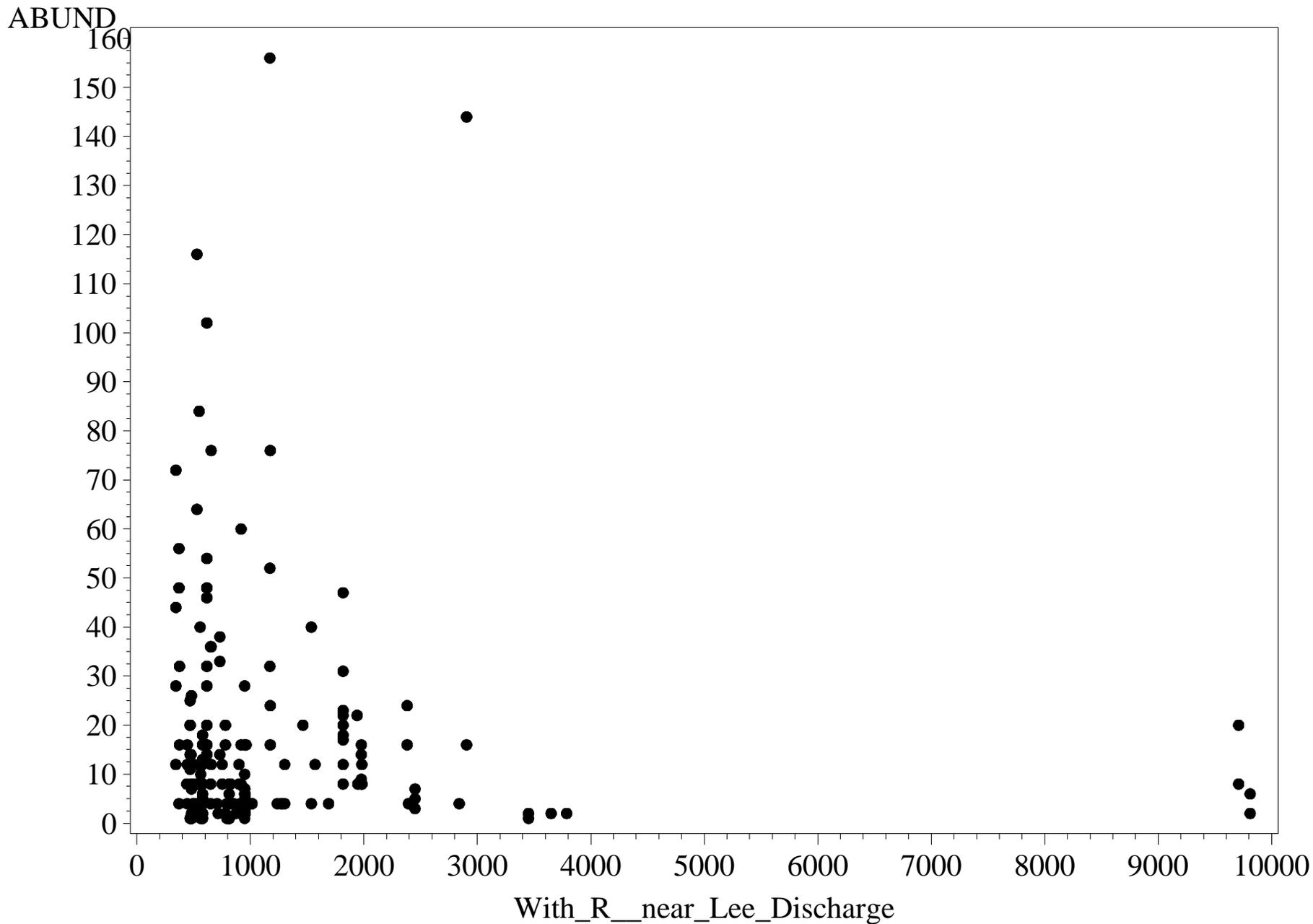
Individual Benthic Species vs. Estimated Withlacoochee Flow (at Lee)

name=POLYPEDILUM ILLINOENSE



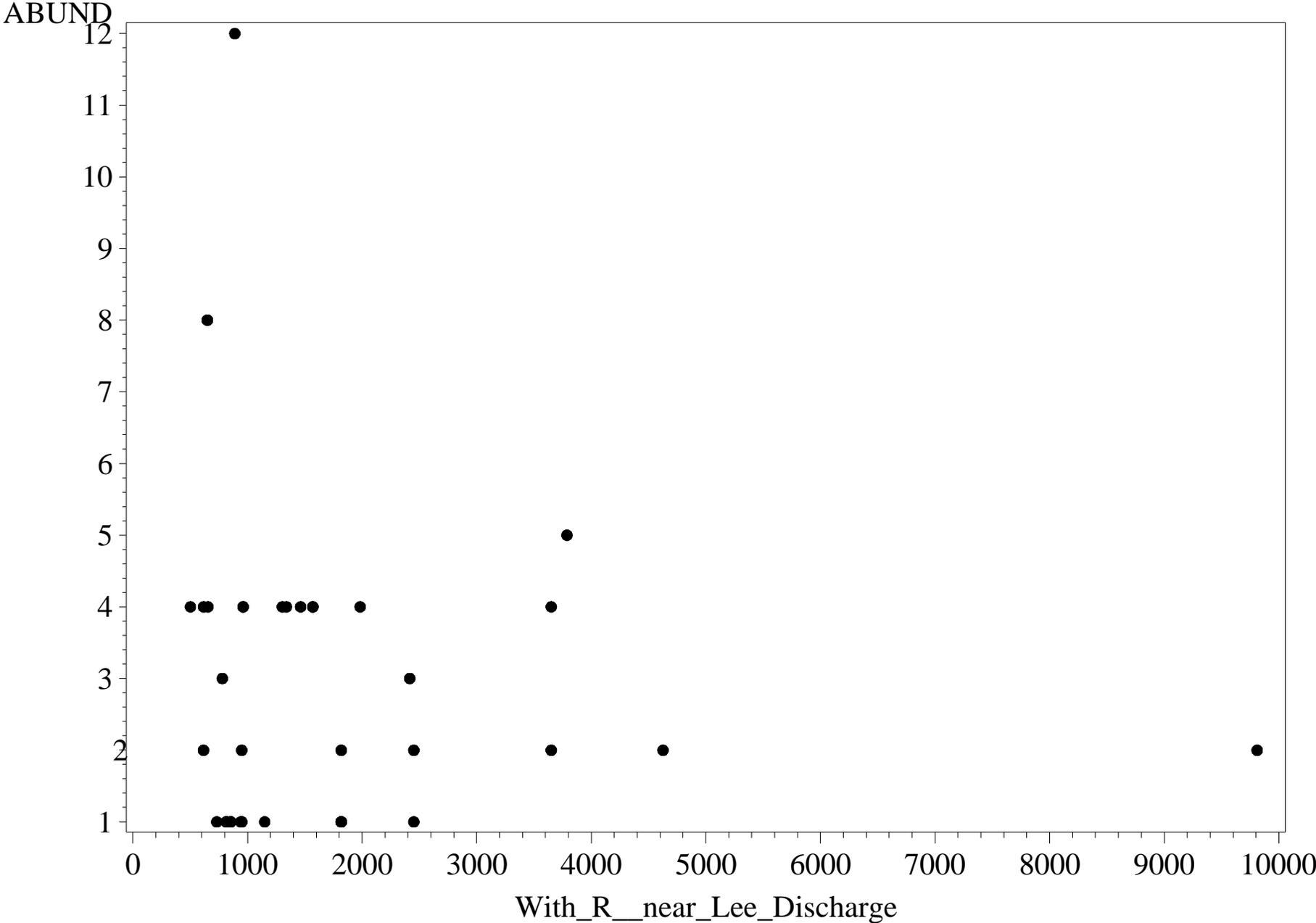
Individual Benthic Species vs. Estimated Withlacoochee Flow (at Lee)

name=POLYPEDILUM SCALAENUM G



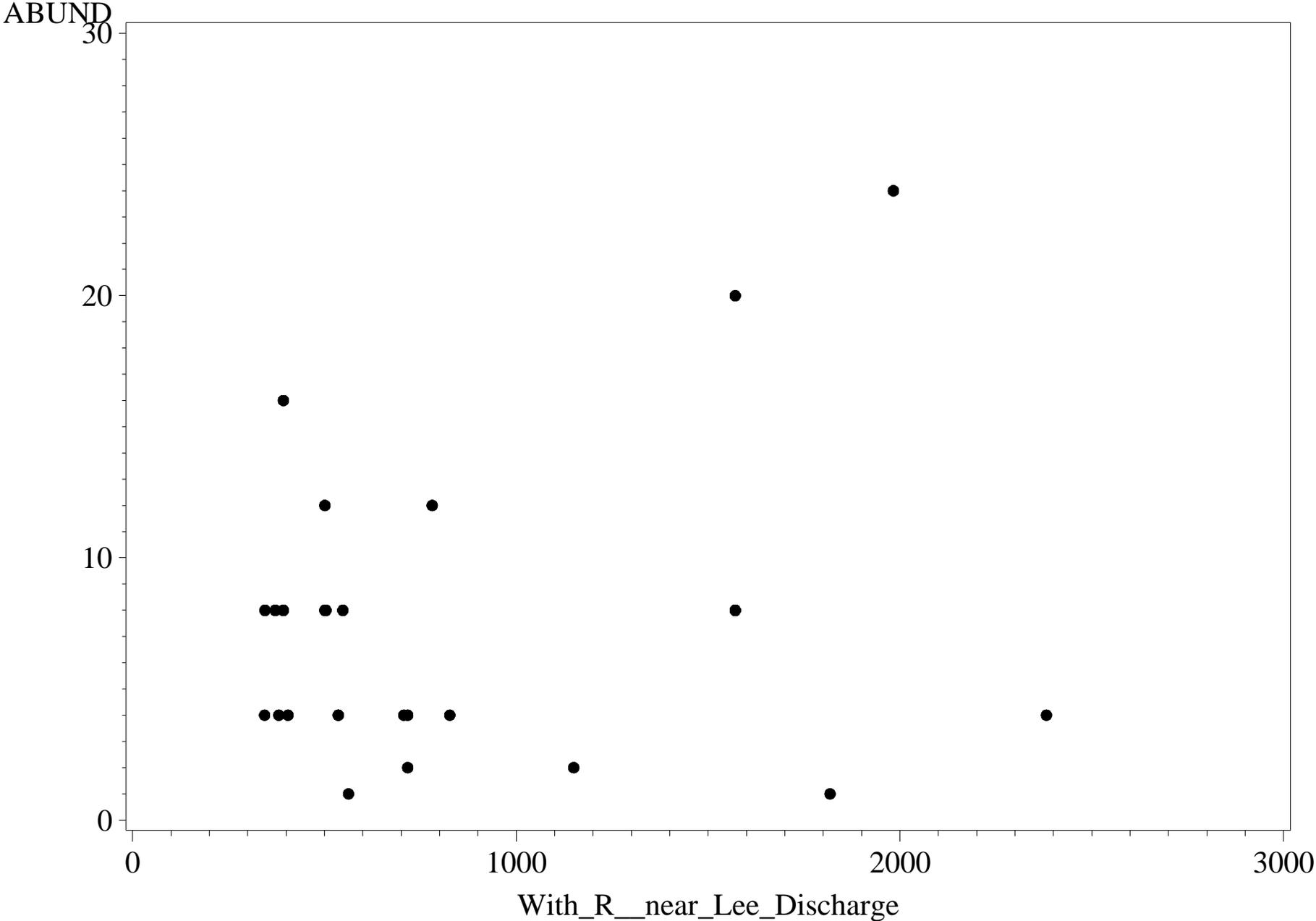
Individual Benthic Species vs. Estimated Withlacoochee Flow (at Lee)

name=POLYPEDILUM SP.



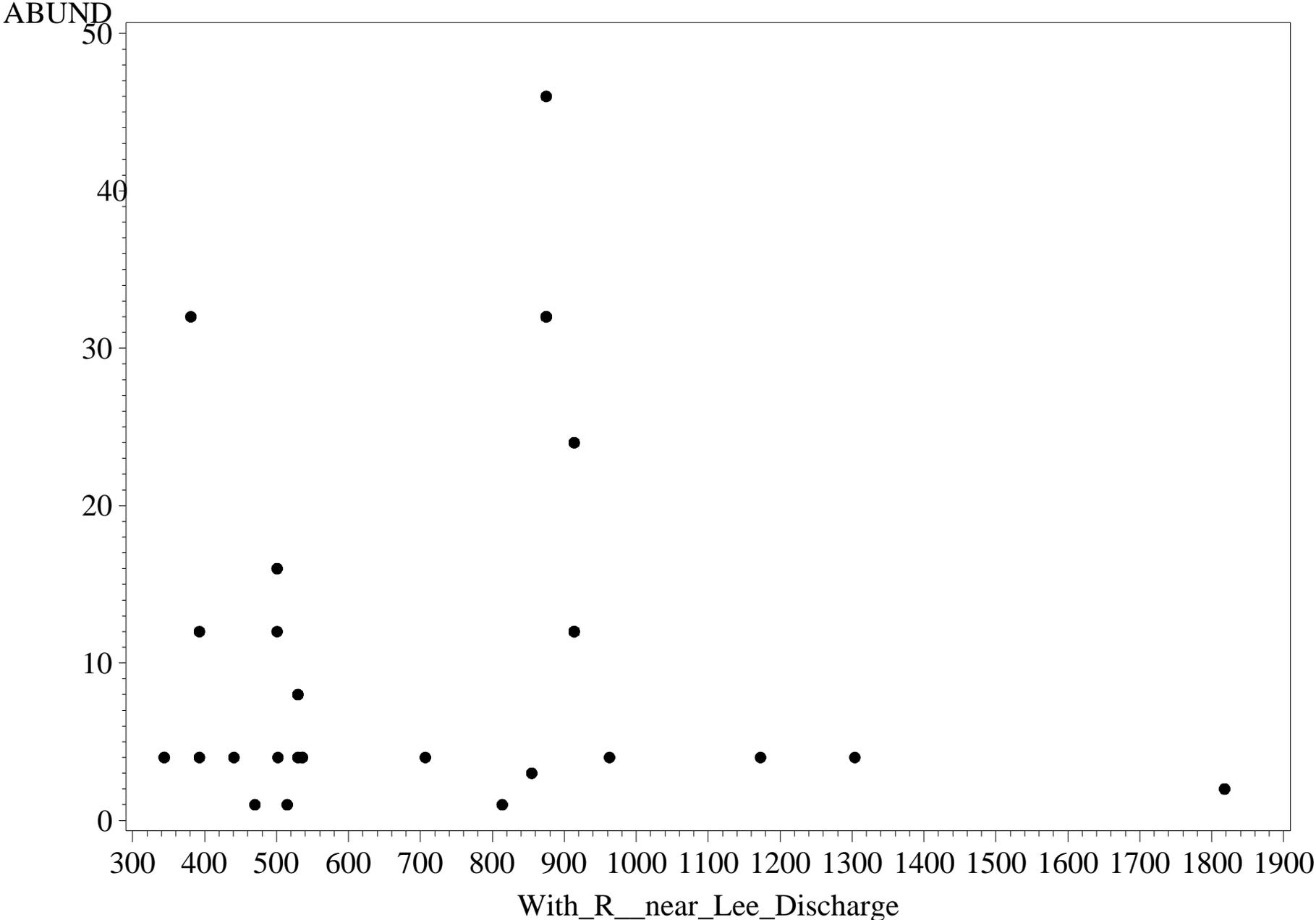
Individual Benthic Species vs. Estimated Withlacoochee Flow (at Lee)

name=PRISTINA AEQUISETA



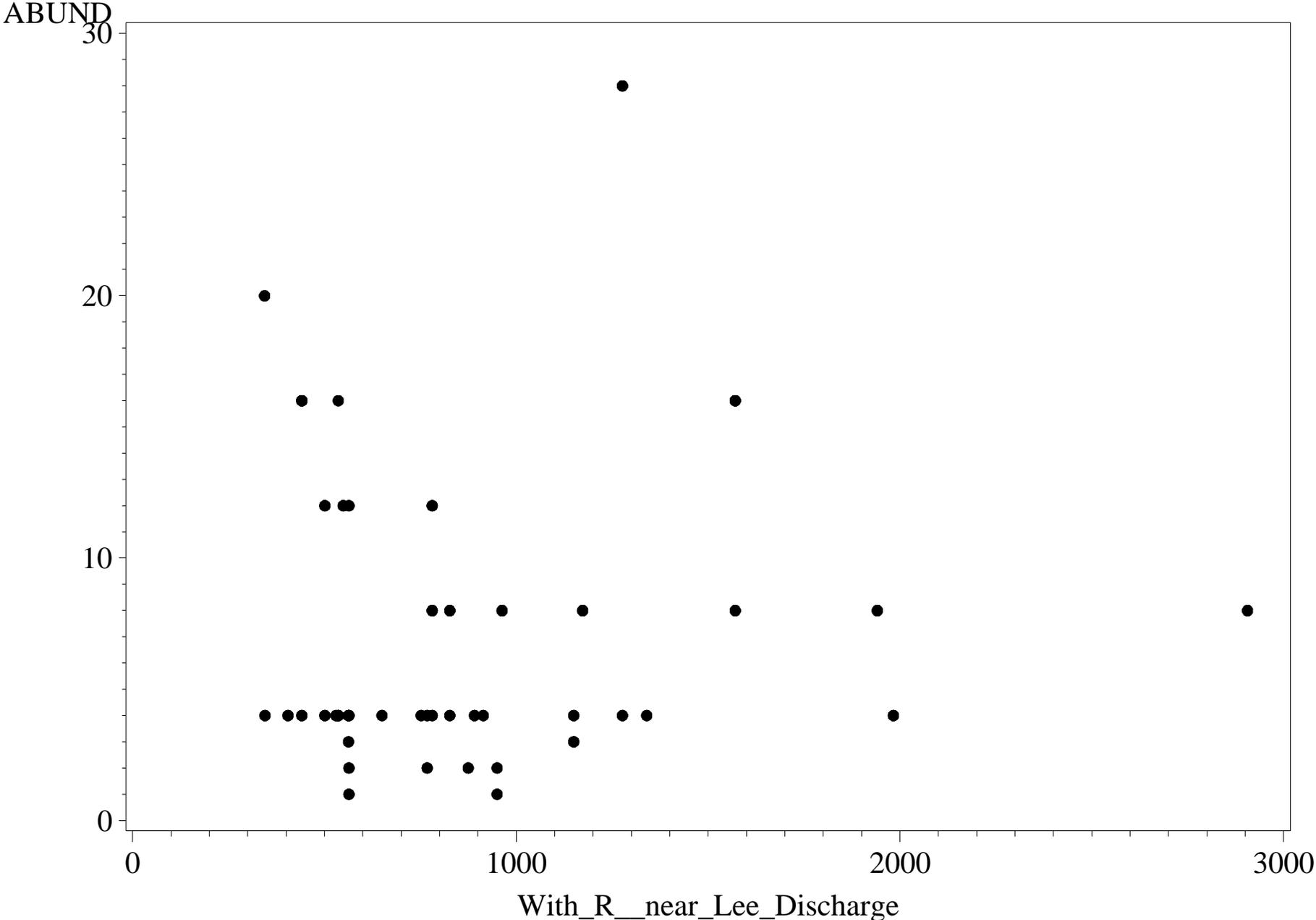
Individual Benthic Species vs. Estimated Withlacoochee Flow (at Lee)

name=PRISTINA LEIDYI



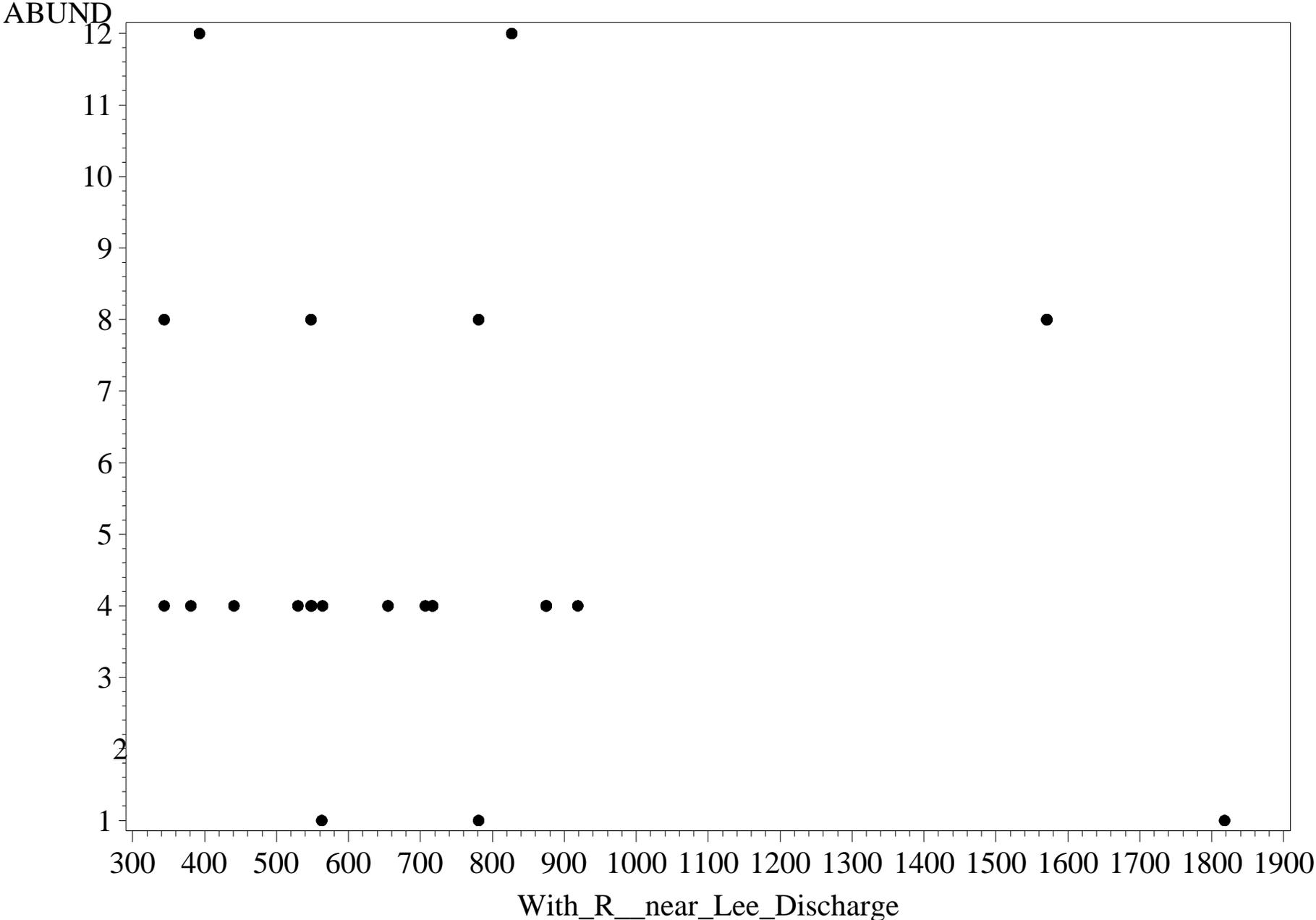
Individual Benthic Species vs. Estimated Withlacoochee Flow (at Lee)

name=PROCLOEON VIRIDOCULAR



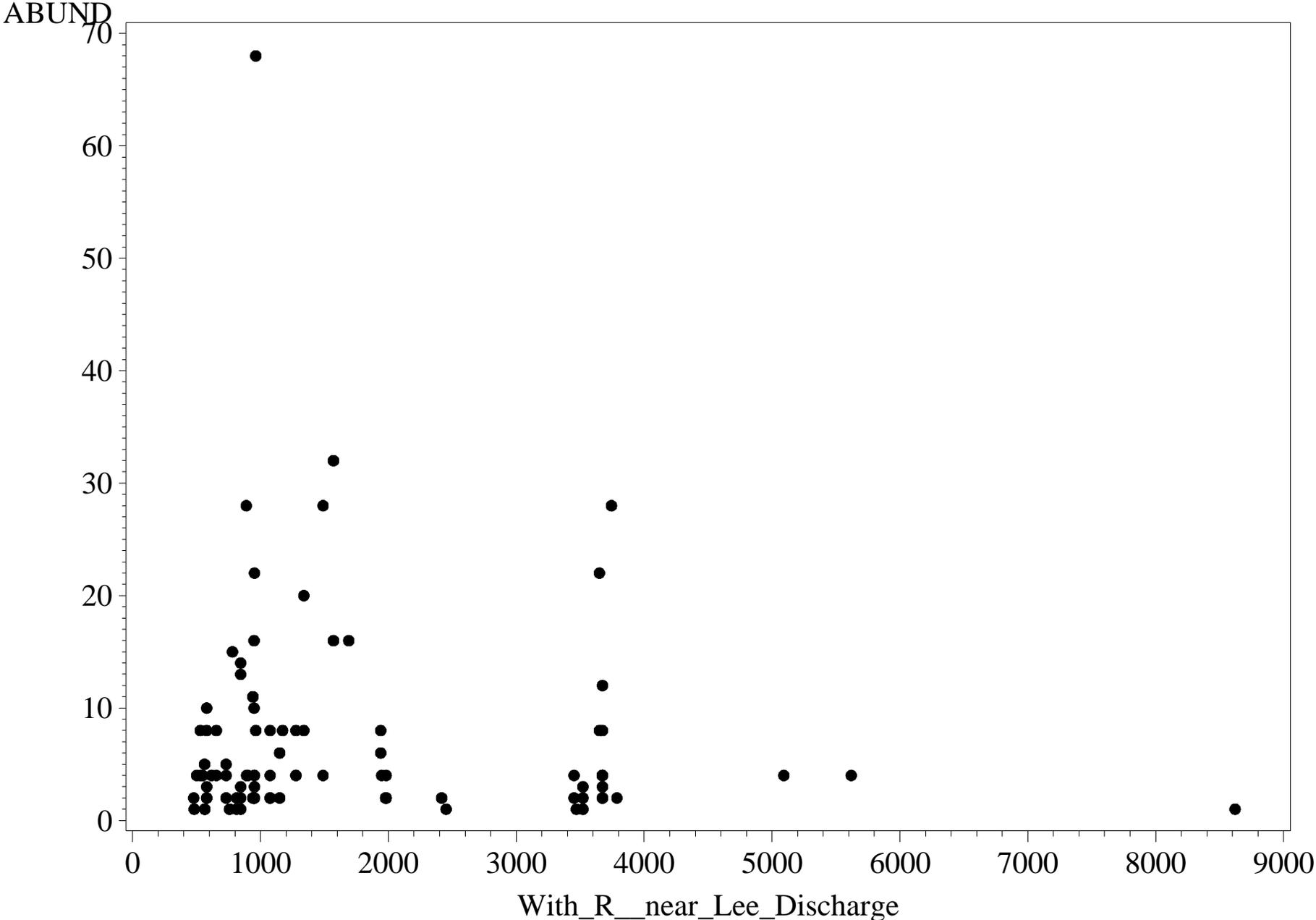
Individual Benthic Species vs. Estimated Withlacoochee Flow (at Lee)

name=PROSTOMA SP.



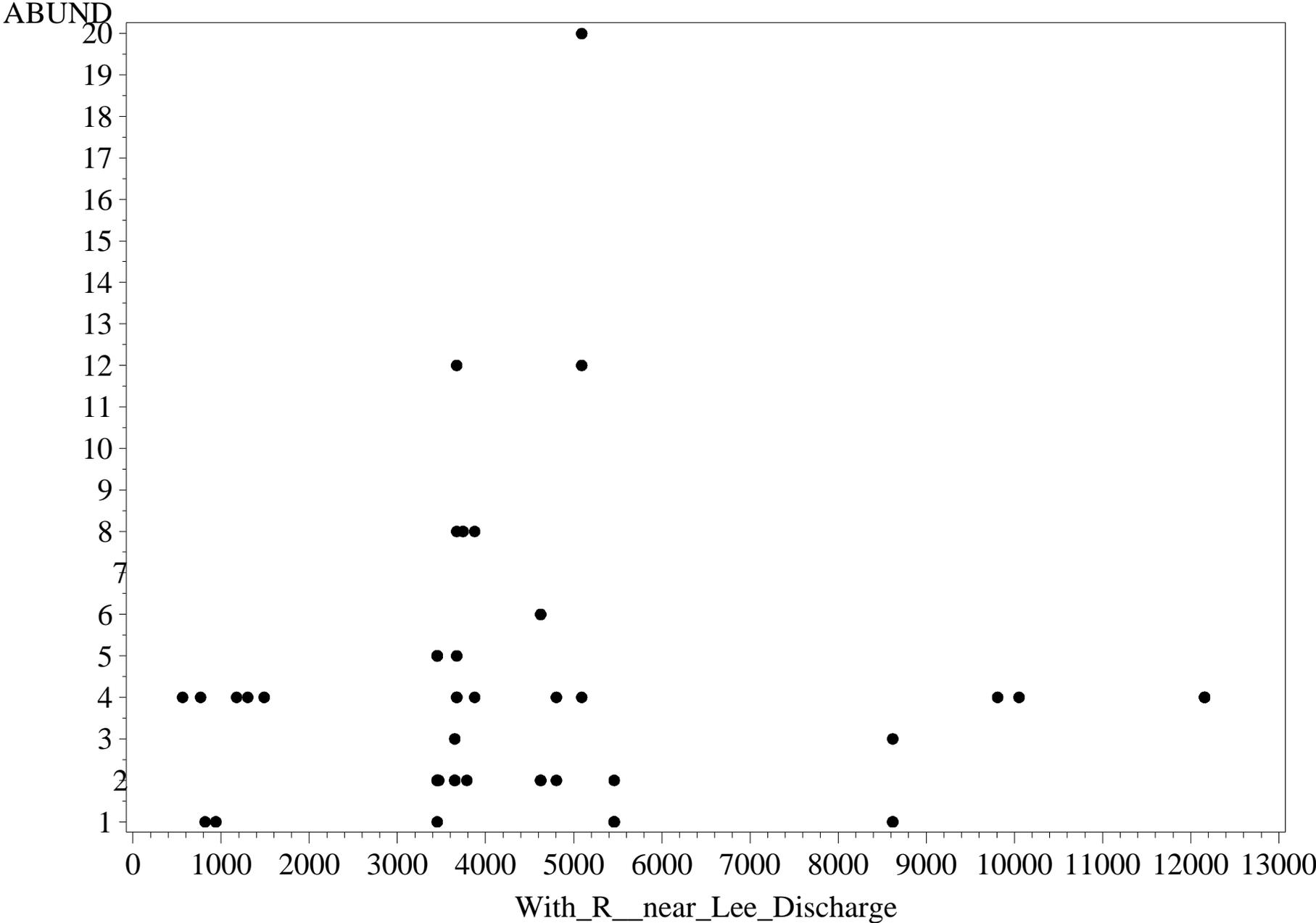
Individual Benthic Species vs. Estimated Withlacoochee Flow (at Lee)

name=PSEUDOCLOEON PROPINQUUM



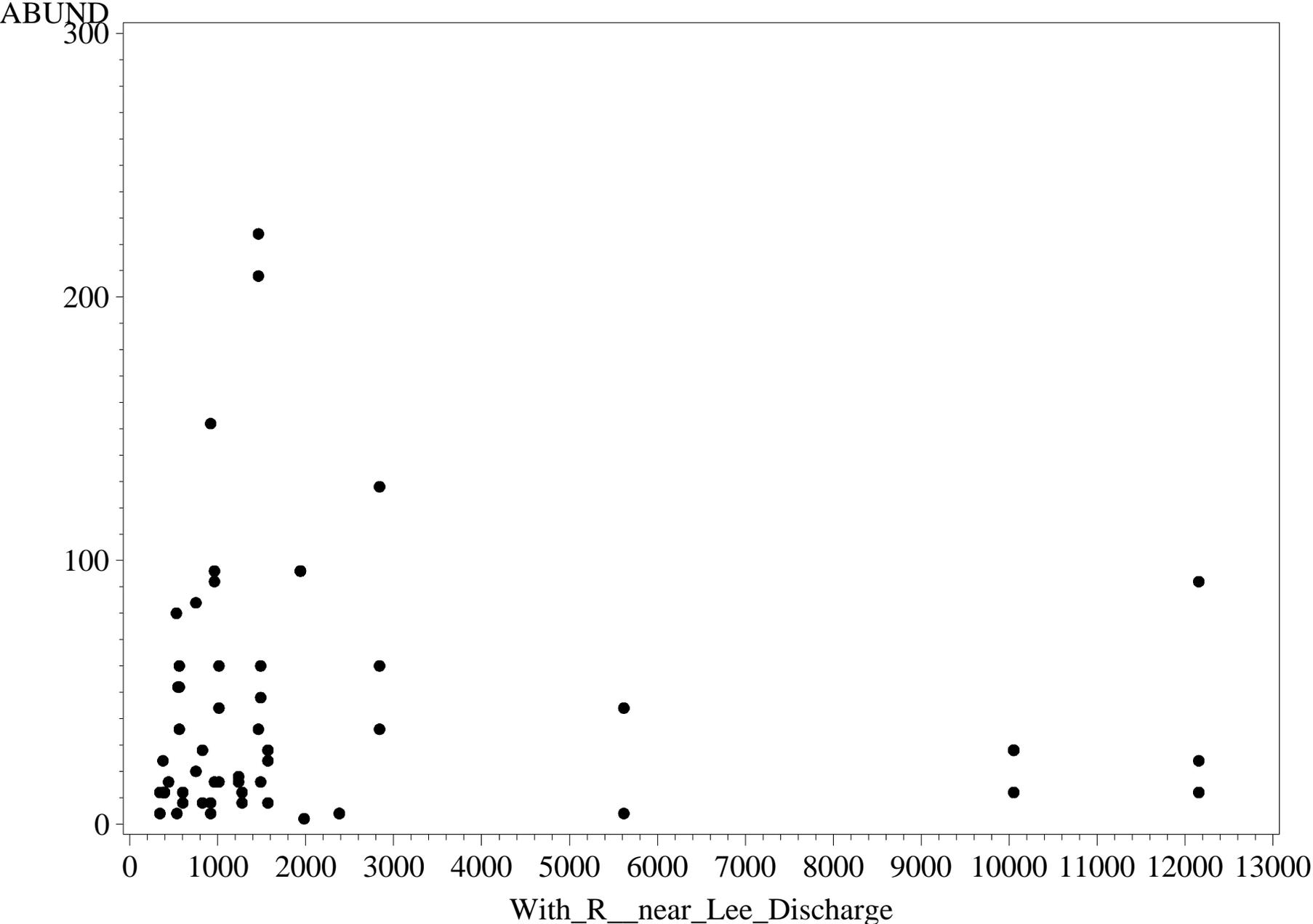
Individual Benthic Species vs. Estimated Withlacoochee Flow (at Lee)

name=RHEOCRICOTOPUS ROBACKI



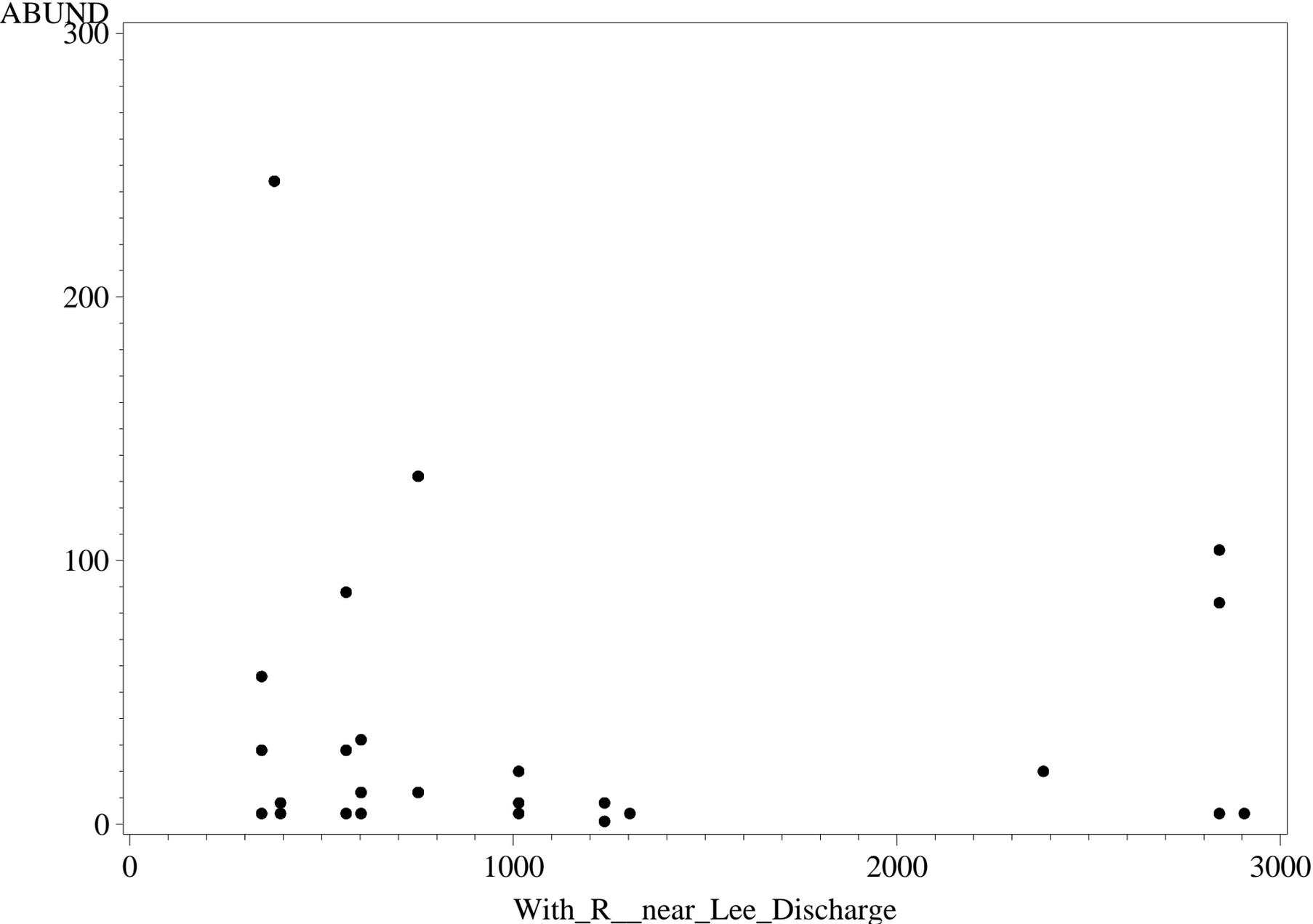
Individual Benthic Species vs. Estimated Withlacoochee Flow (at Lee)

name=RHEOTANYTARSUS EXIGUUS GRO



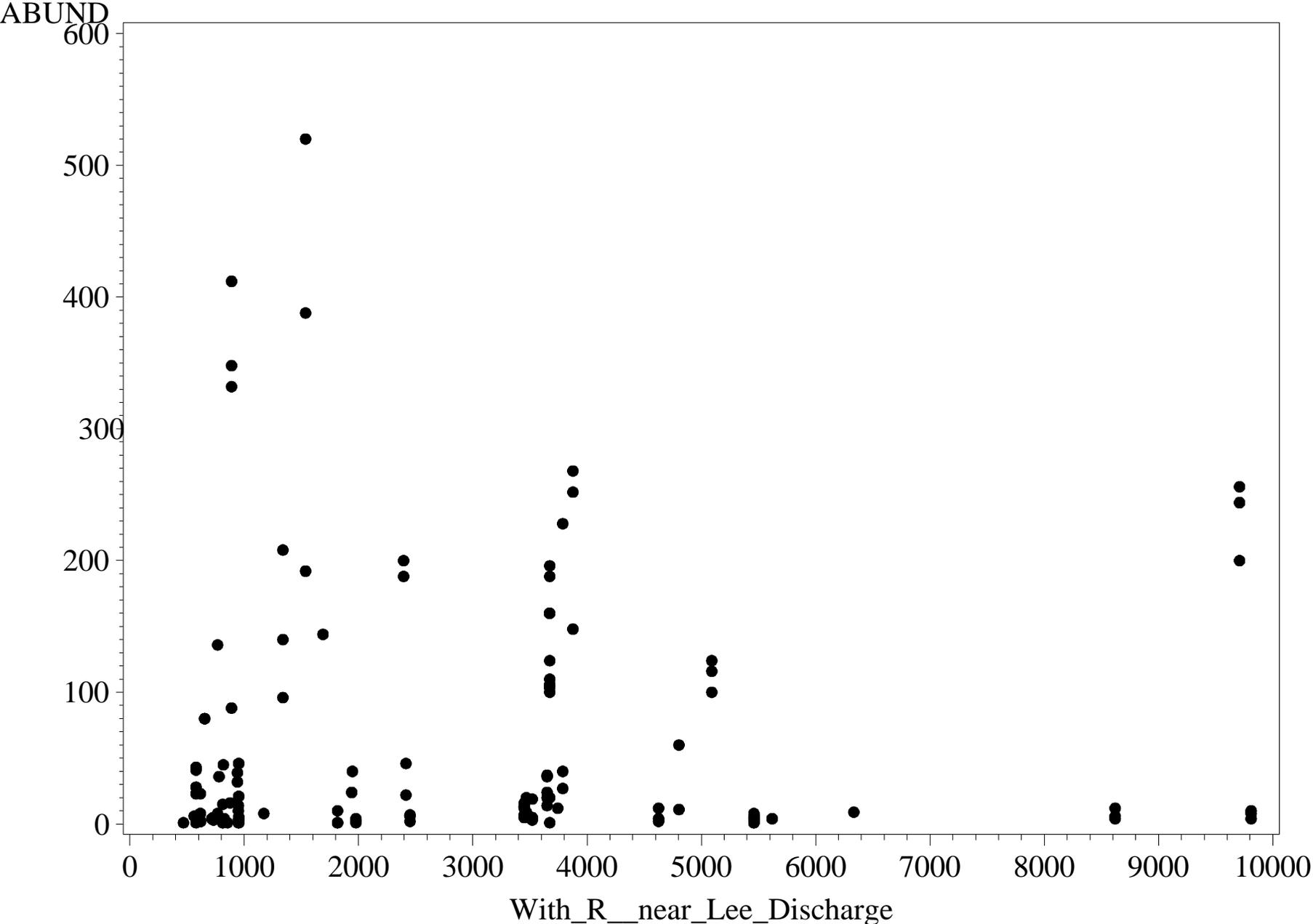
Individual Benthic Species vs. Estimated Withlacoochee Flow (at Lee)

name=RHEOTANYTARSUS PELLUCIDUS



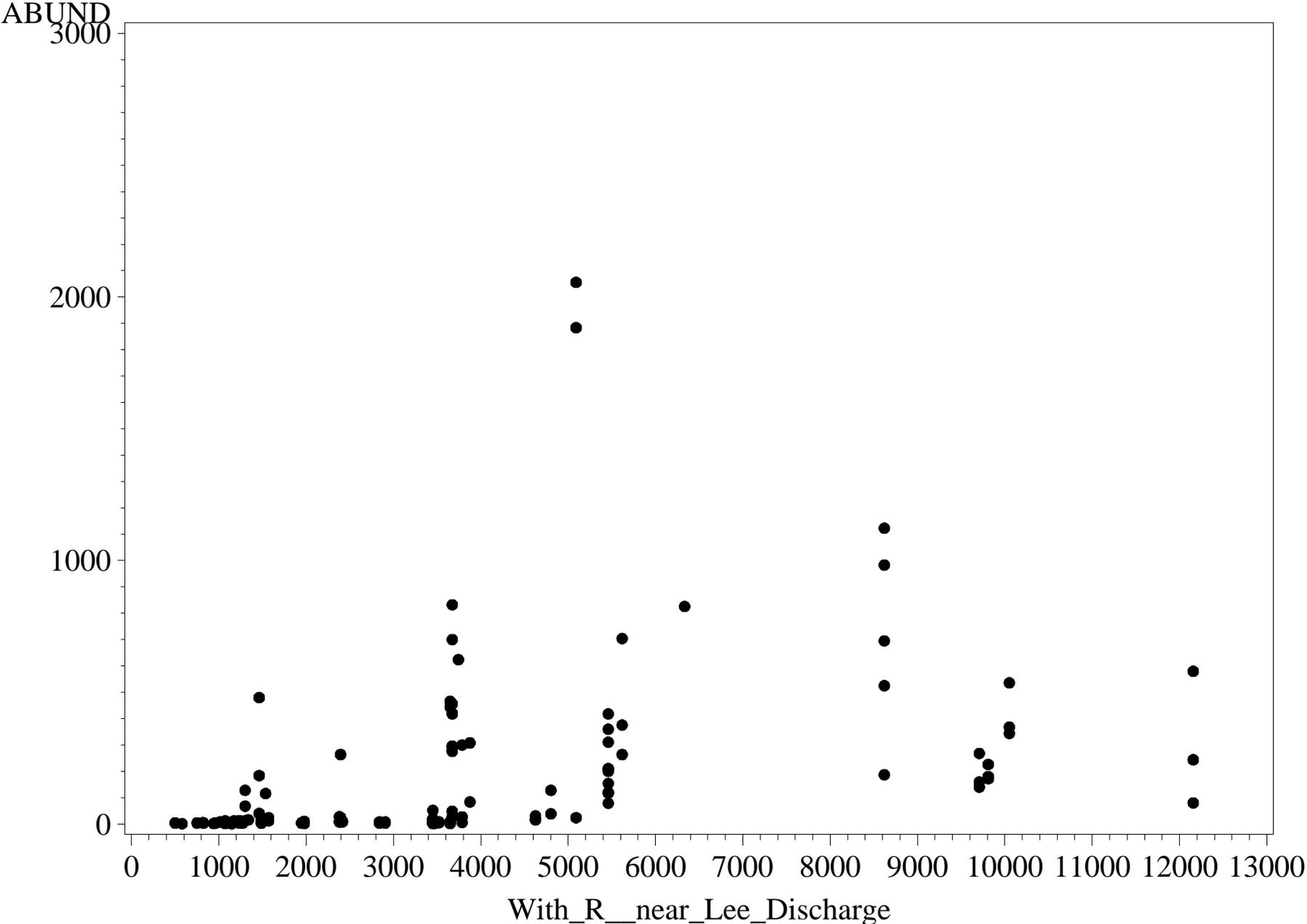
Individual Benthic Species vs. Estimated Withlacoochee Flow (at Lee)

name=RHEOTANYTARSUS SP.



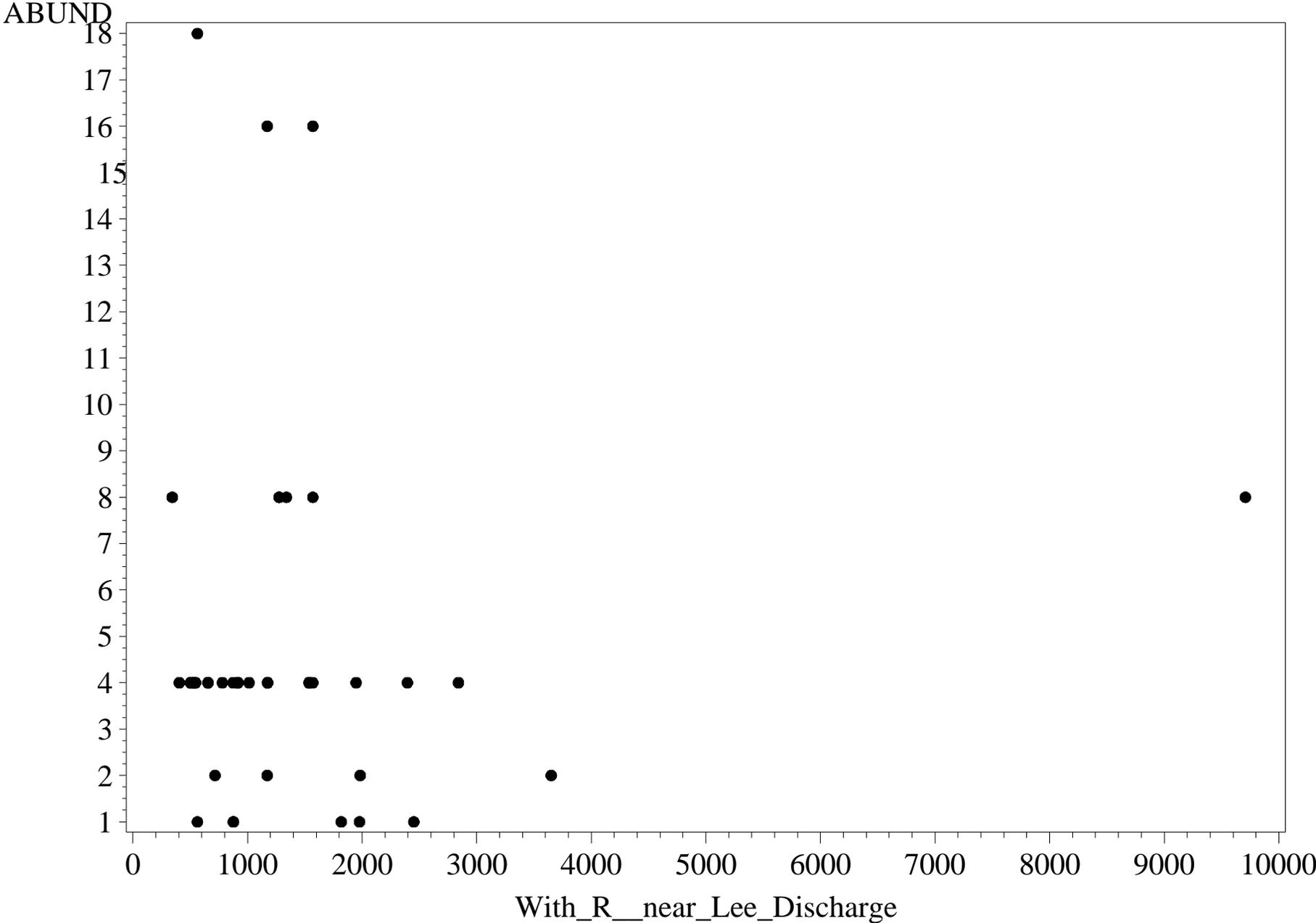
Individual Benthic Species vs. Estimated Withlacoochee Flow (at Lee)

name=SIMULIUM SP.



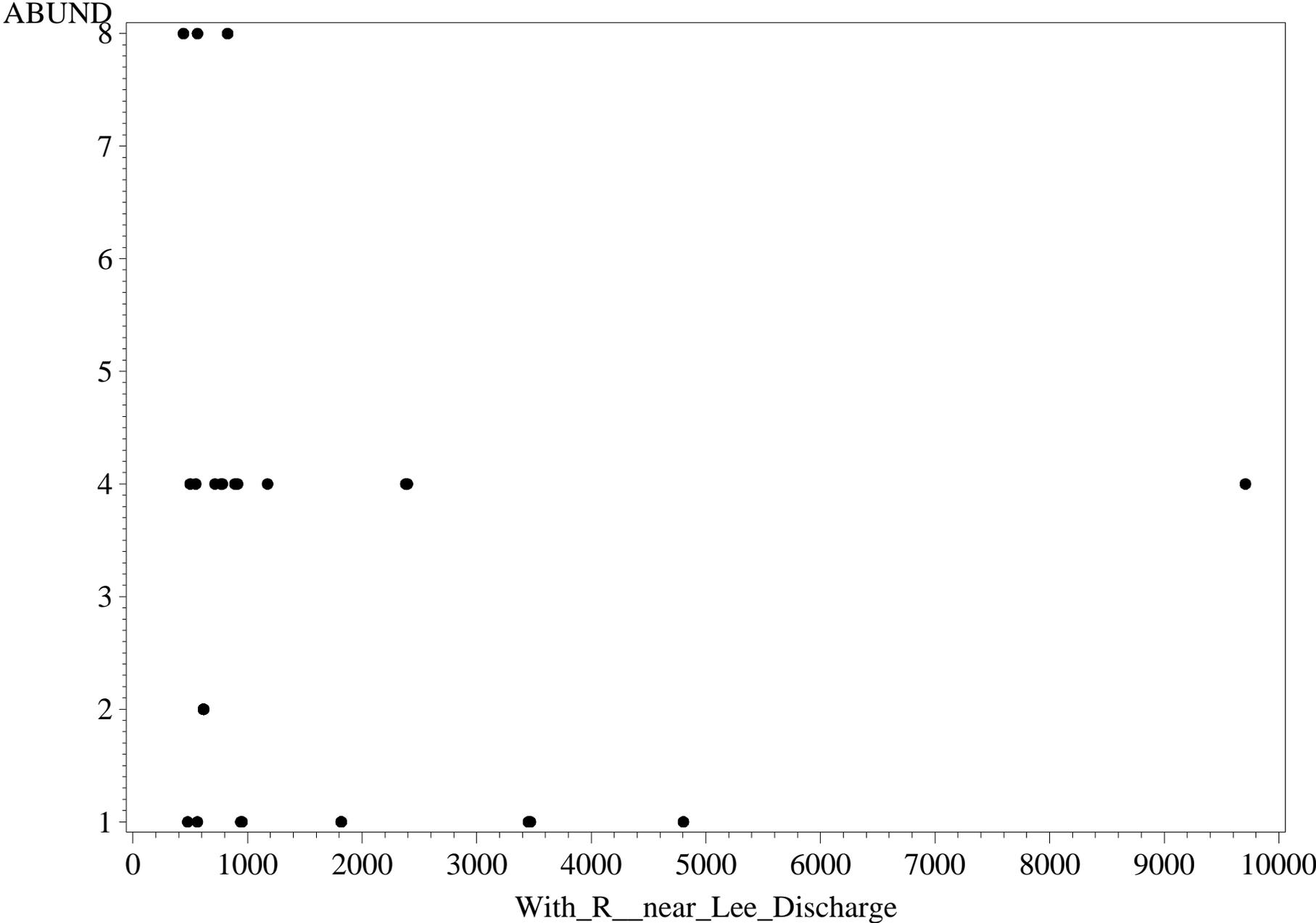
Individual Benthic Species vs. Estimated Withlacoochee Flow (at Lee)

name=SLAVINA APPENDICULA



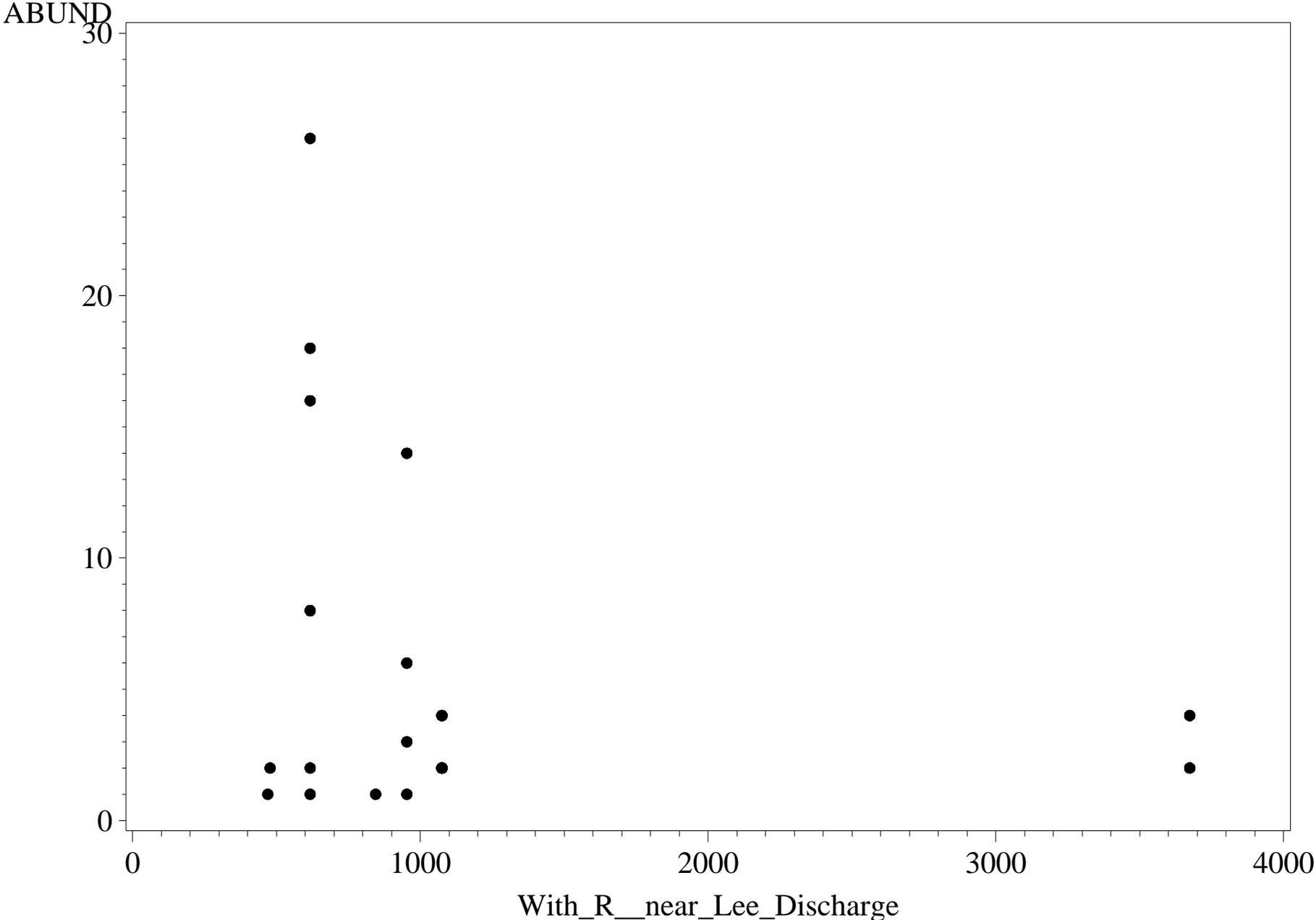
Individual Benthic Species vs. Estimated Withlacoochee Flow (at Lee)

name=STELECHOMYIA PERPULCHRA

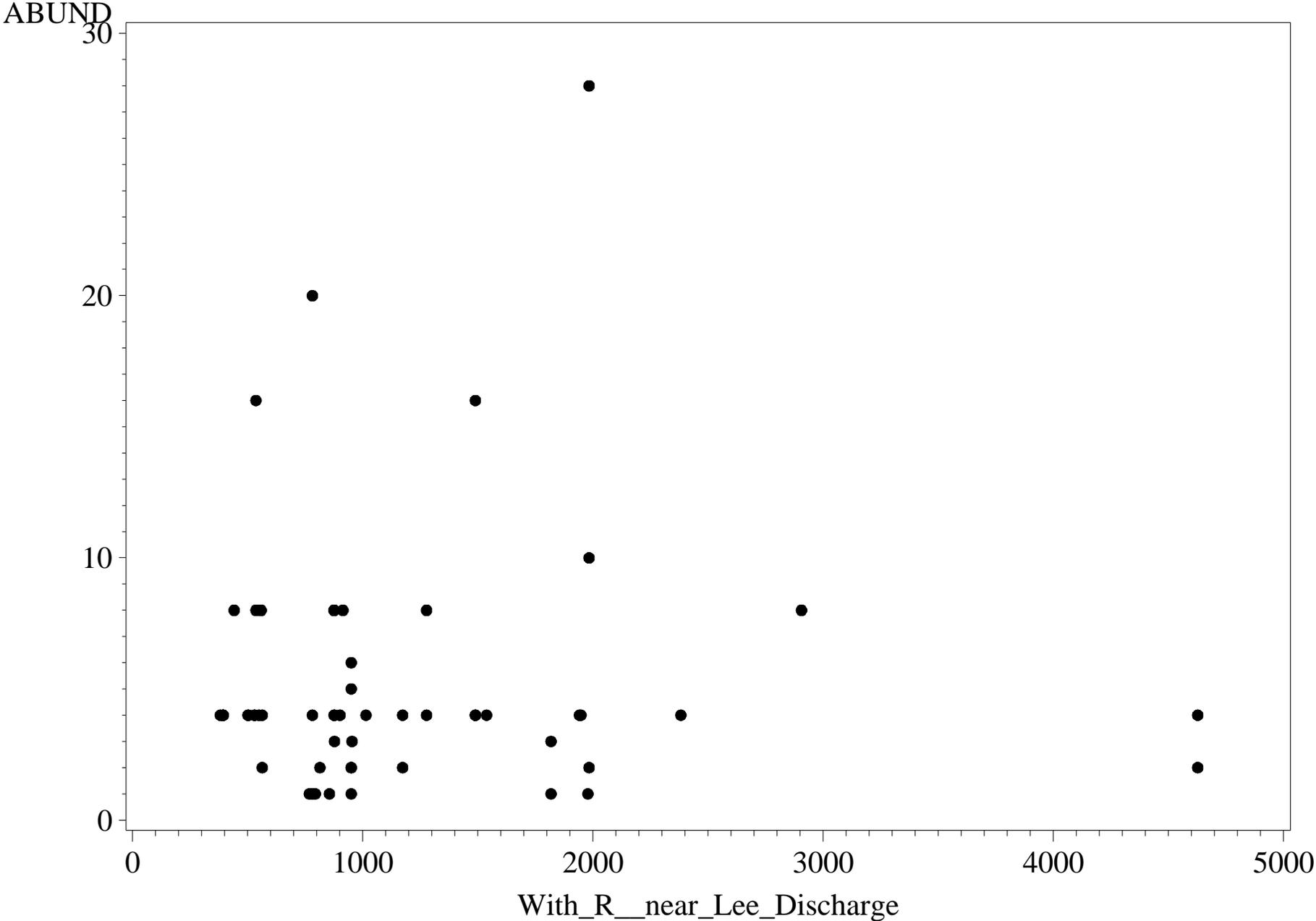


Individual Benthic Species vs. Estimated Withlacoochee Flow (at Lee)

name=STENACRON INTERPUNCTATUM

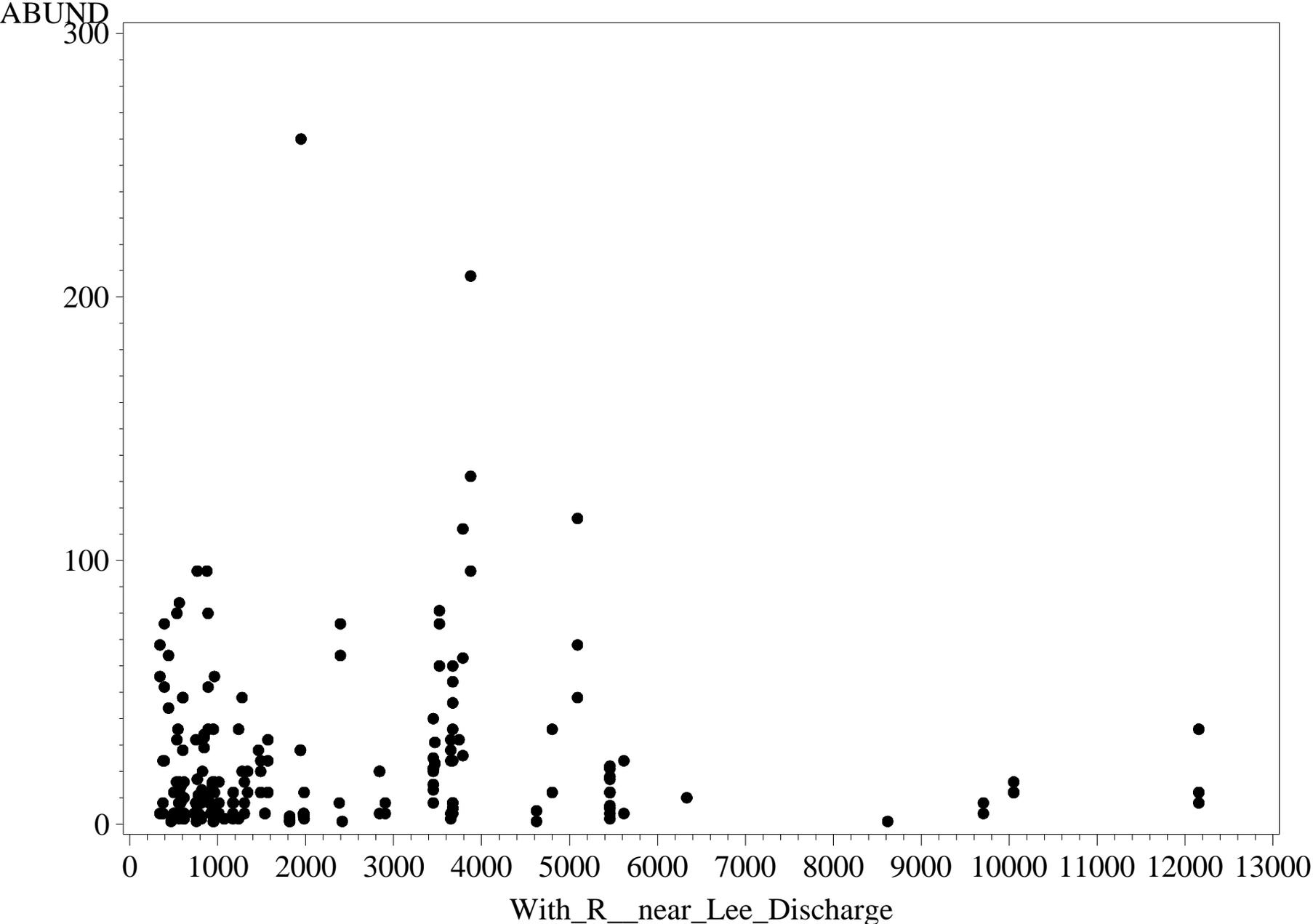


Individual Benthic Species vs. Estimated Withlacoochee Flow (at Lee)
name=STENACRON SP.



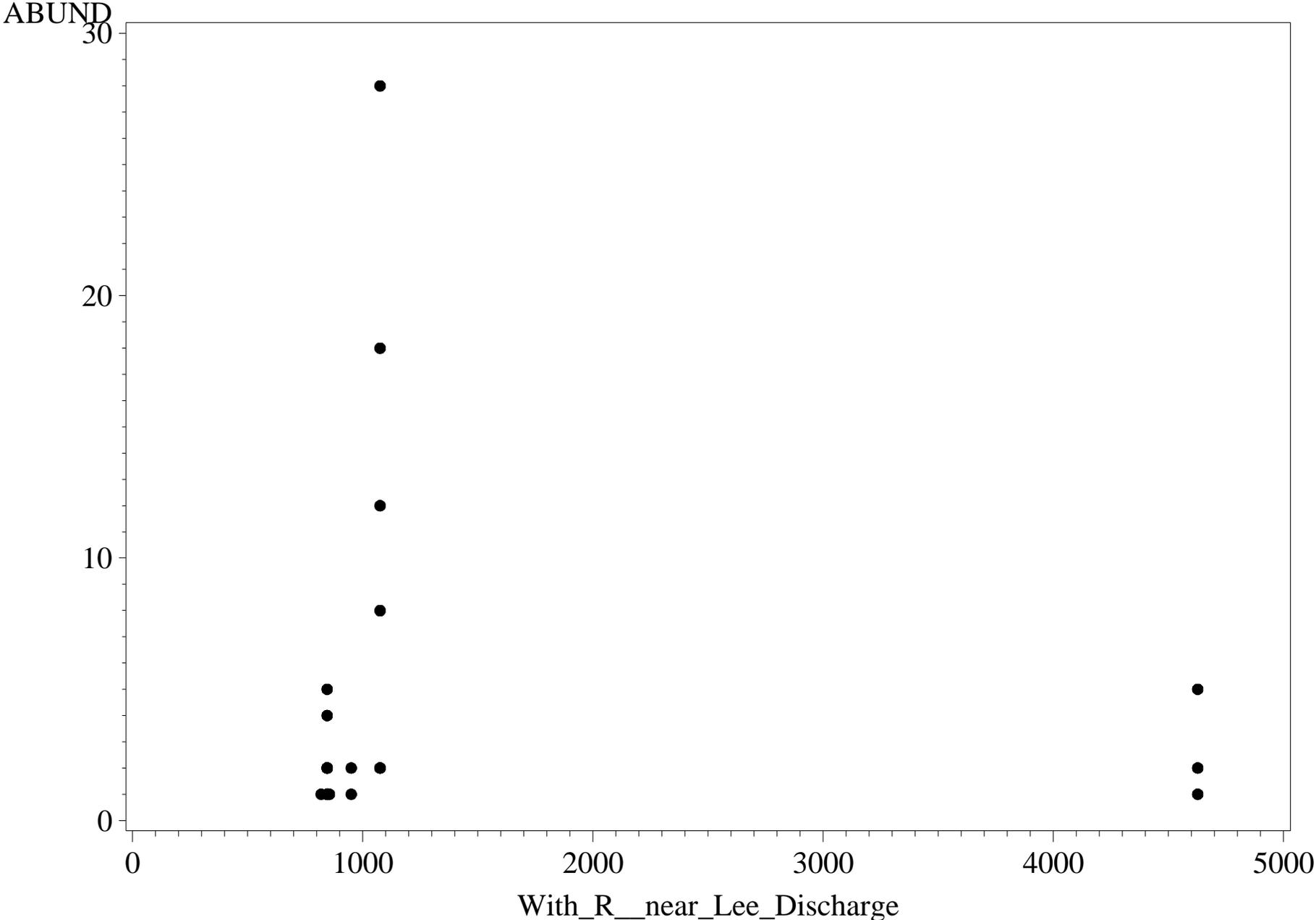
Individual Benthic Species vs. Estimated Withlacoochee Flow (at Lee)

name=STENONEMA EXIGUUM

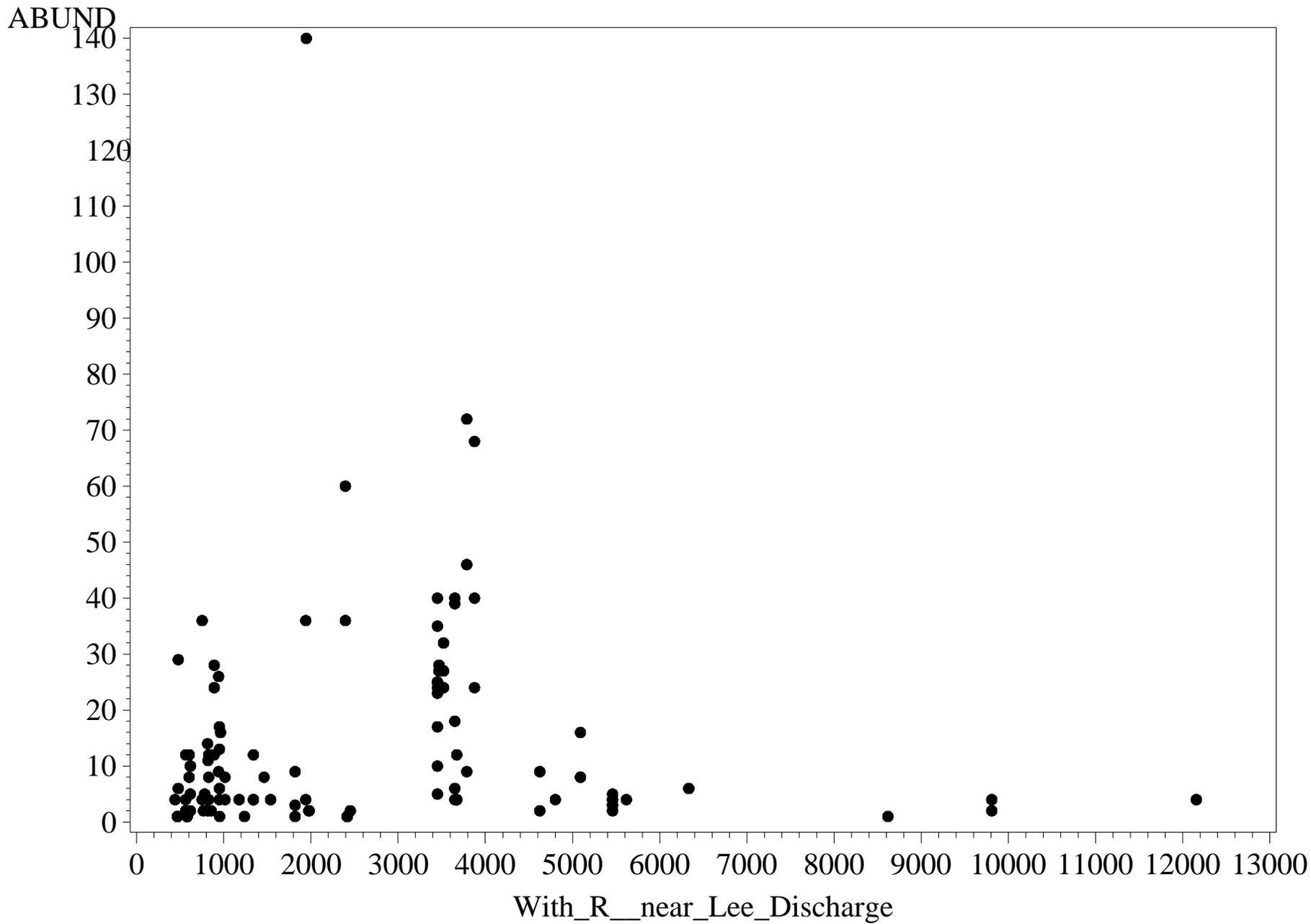


Individual Benthic Species vs. Estimated Withlacoochee Flow (at Lee)

name=STENONEMA SMITHAE

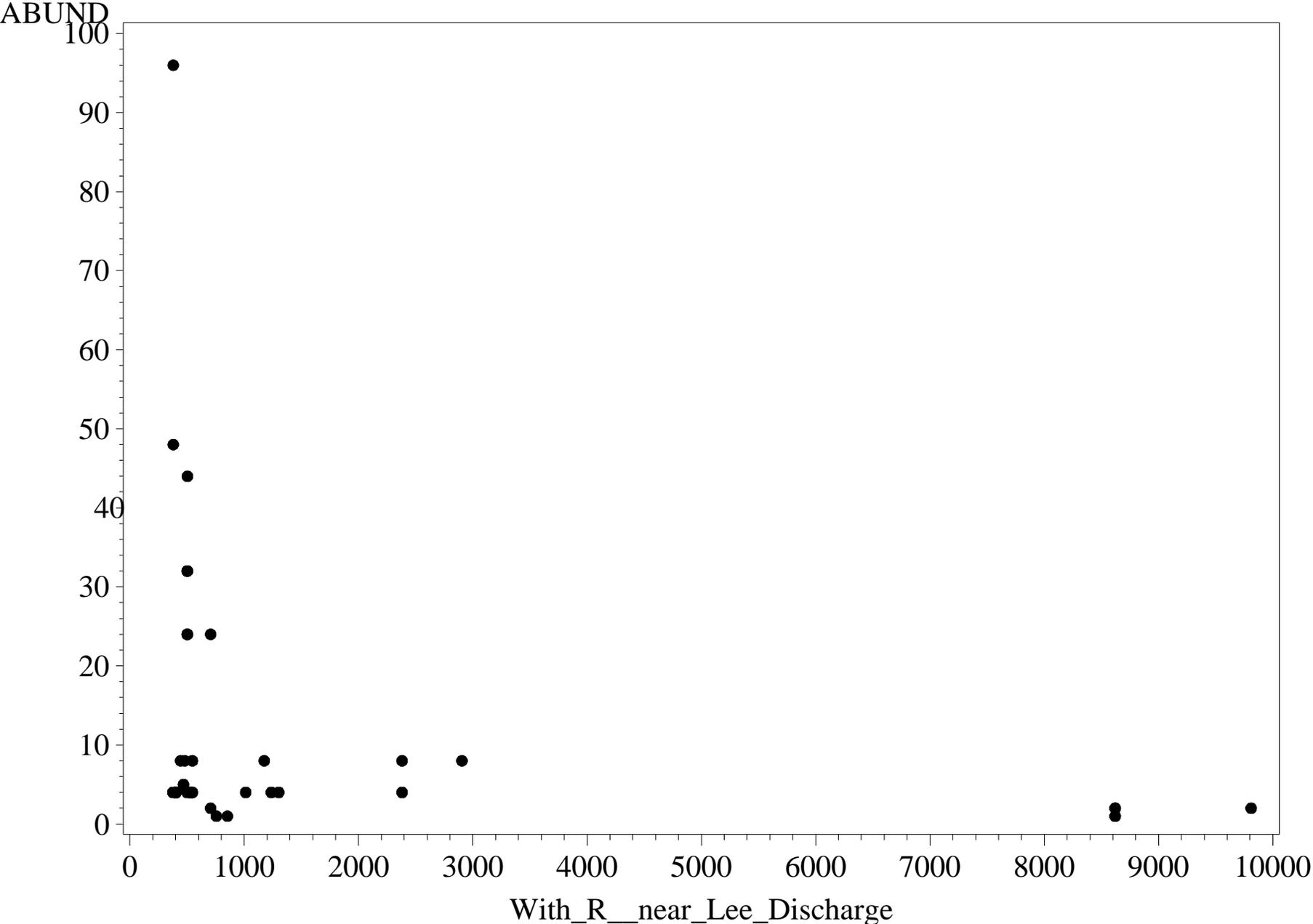


Individual Benthic Species vs. Estimated Withlacoochee Flow (at Lee)
name=STENONEMA SP.

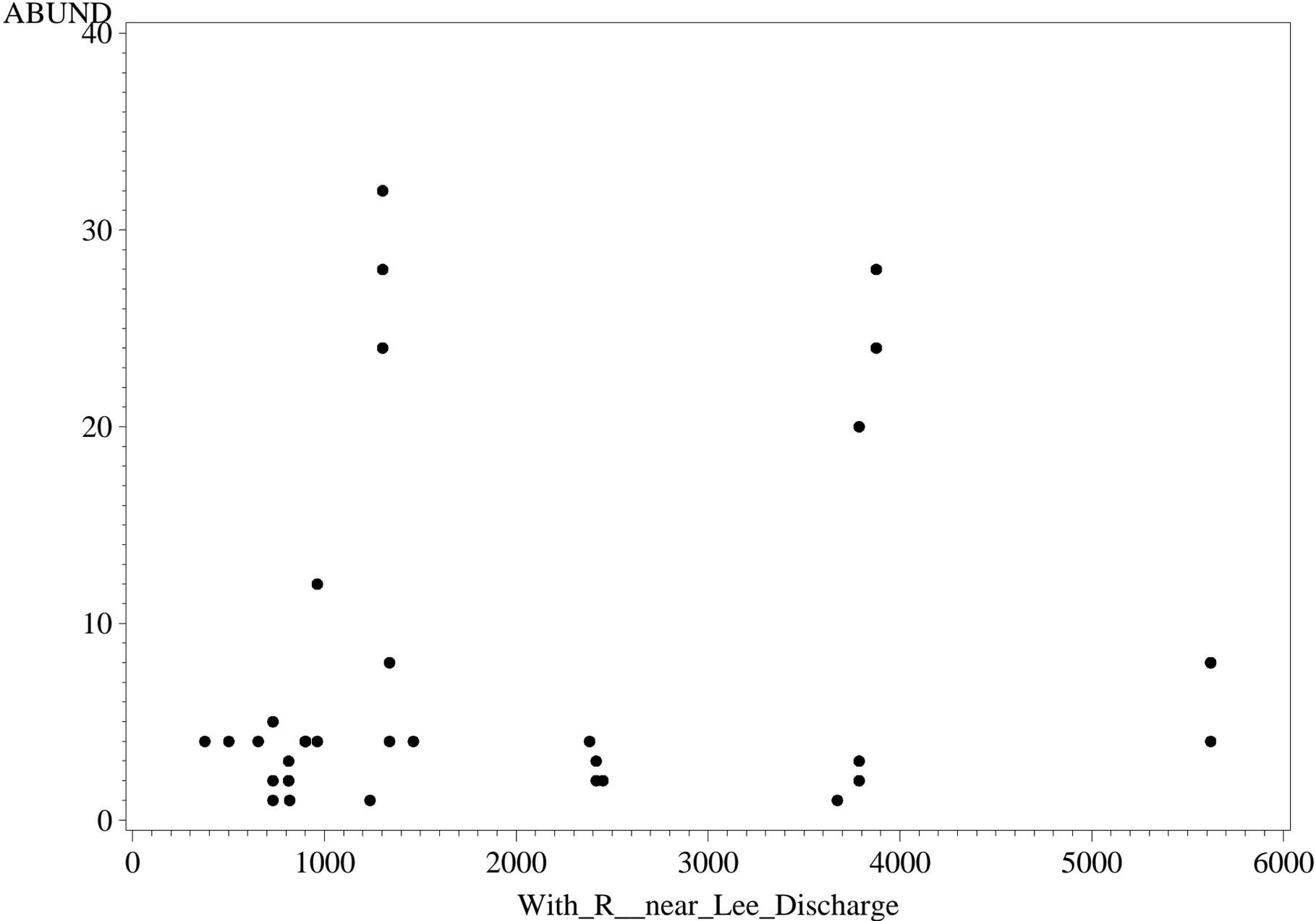


Individual Benthic Species vs. Estimated Withlacoochee Flow (at Lee)

name=STYLARIA LACUSTRIS

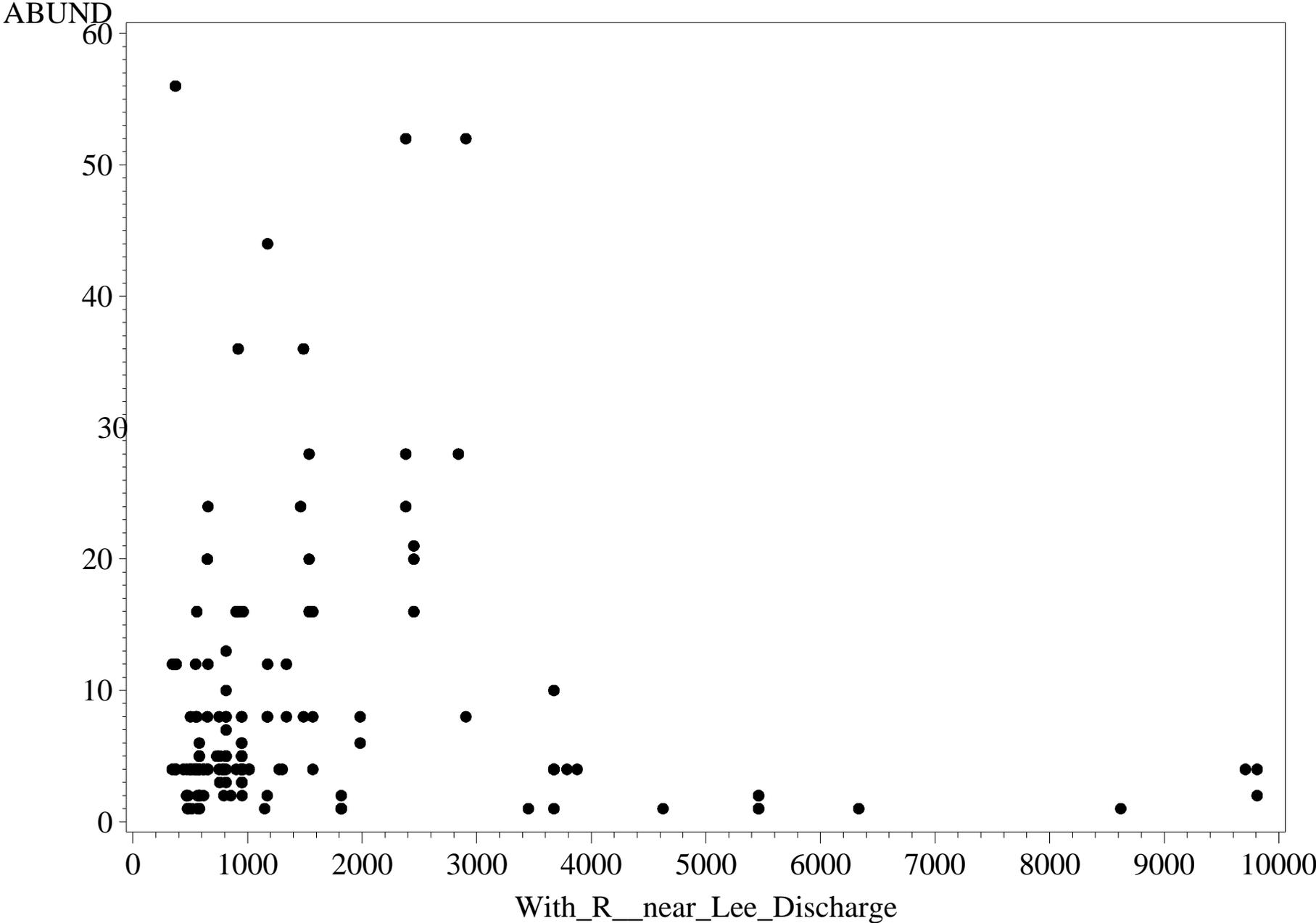


Individual Benthic Species vs. Estimated Withlacoochee Flow (at Lee)
name=TAENIOPTERYX SP.



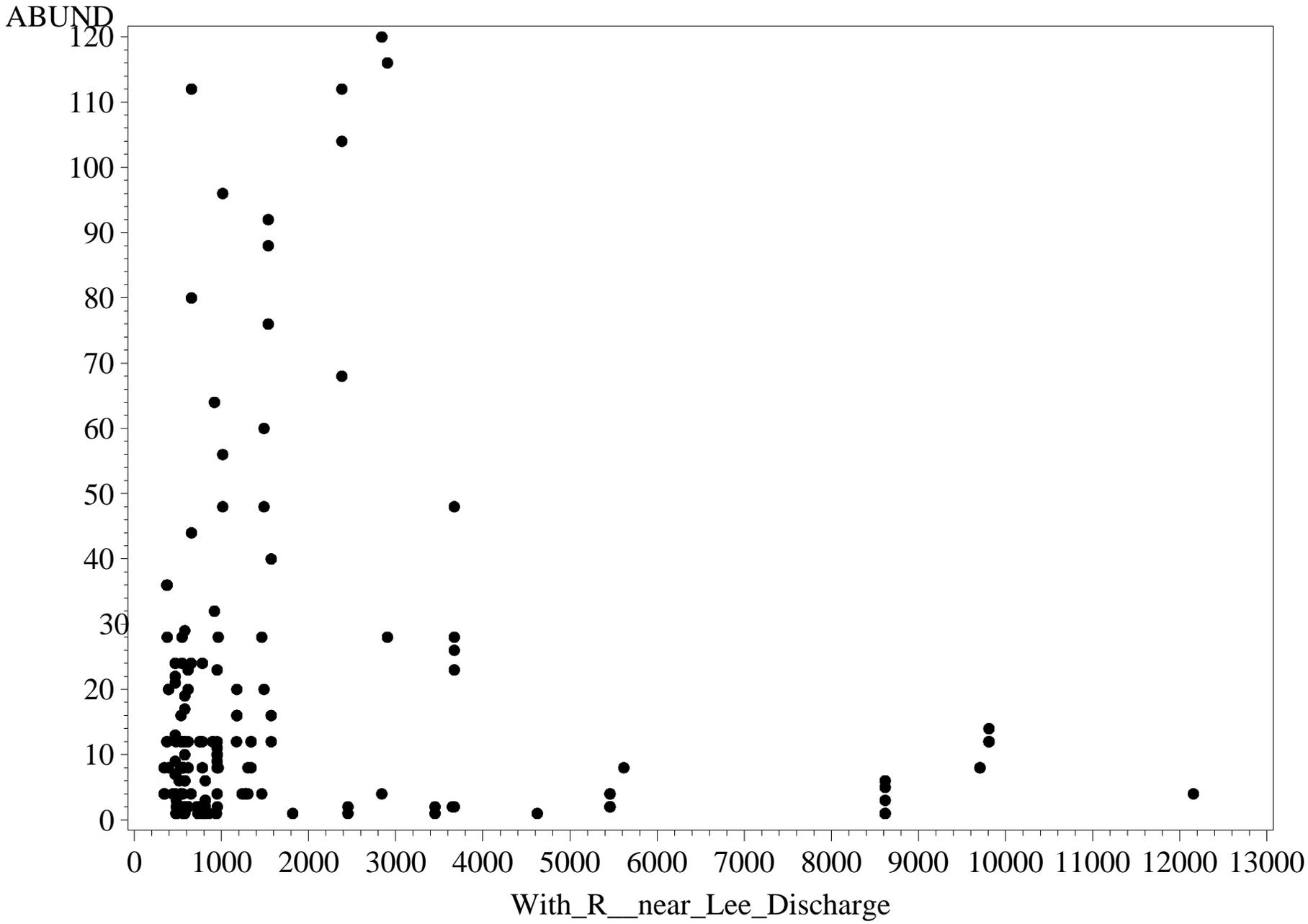
Individual Benthic Species vs. Estimated Withlacoochee Flow (at Lee)

name=TANYTARSUS SP.



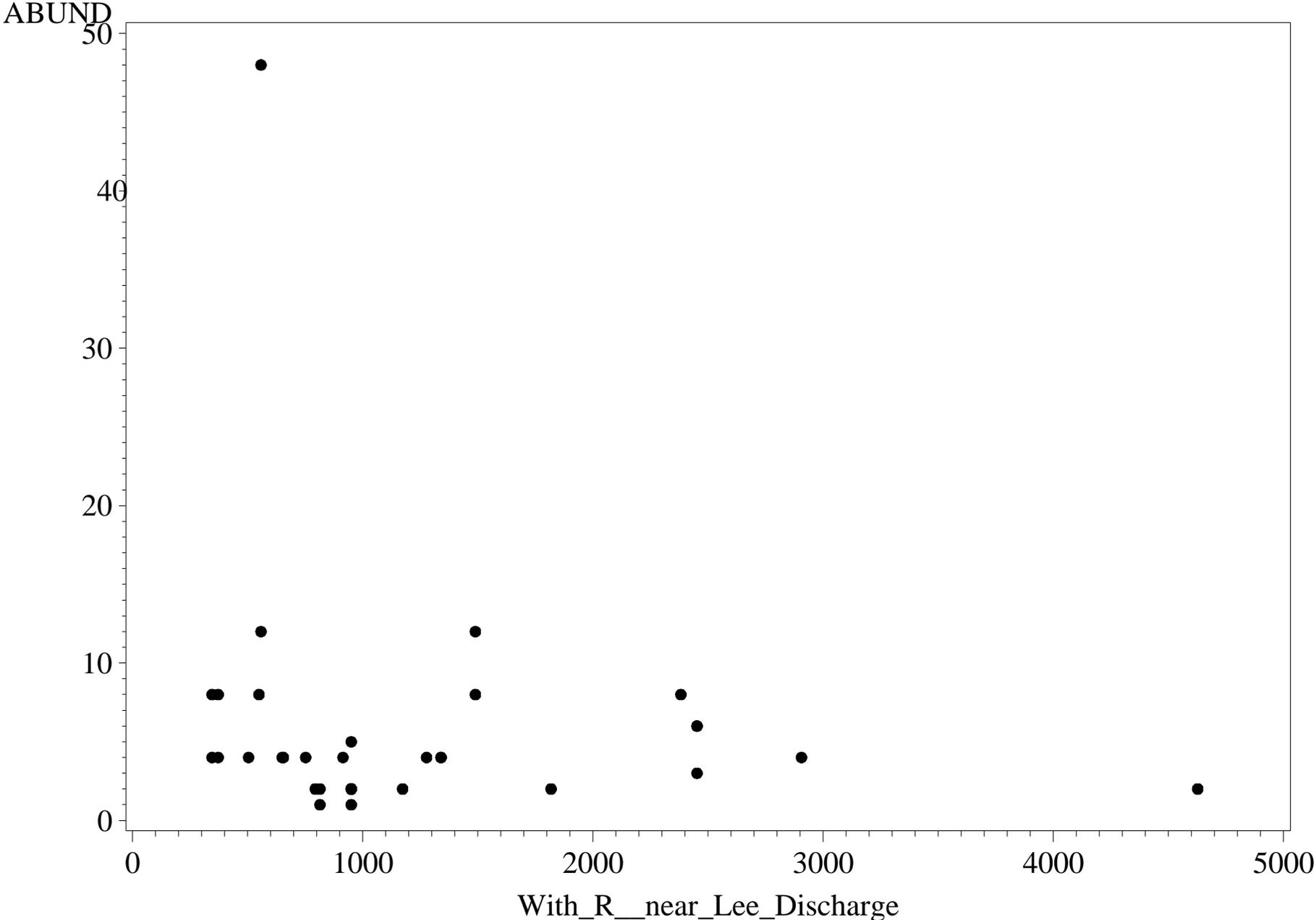
Individual Benthic Species vs. Estimated Withlacoochee Flow (at Lee)

name=TANYTARSUS SP. C



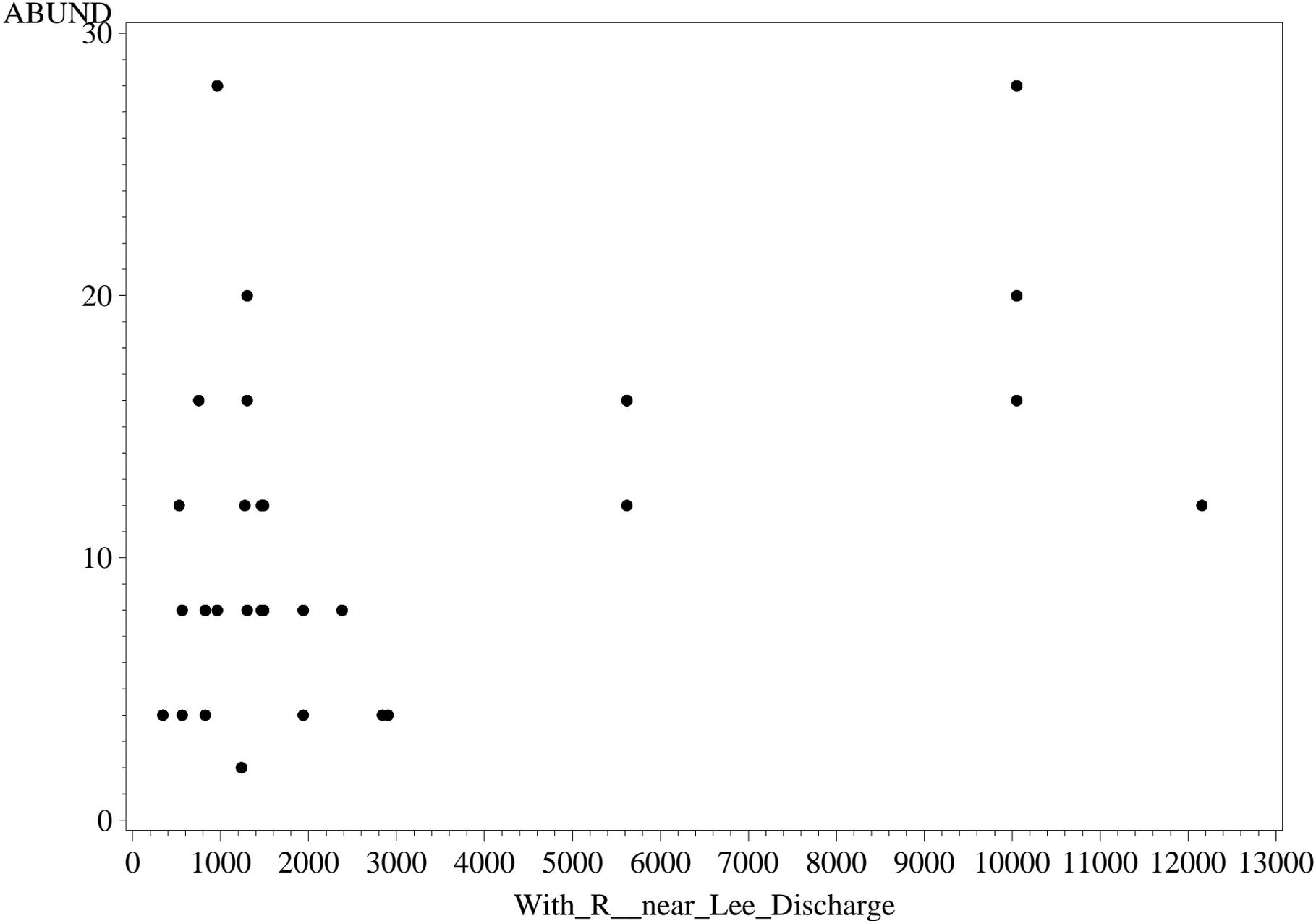
Individual Benthic Species vs. Estimated Withlacoochee Flow (at Lee)

name=TANYTARSUS SP. S



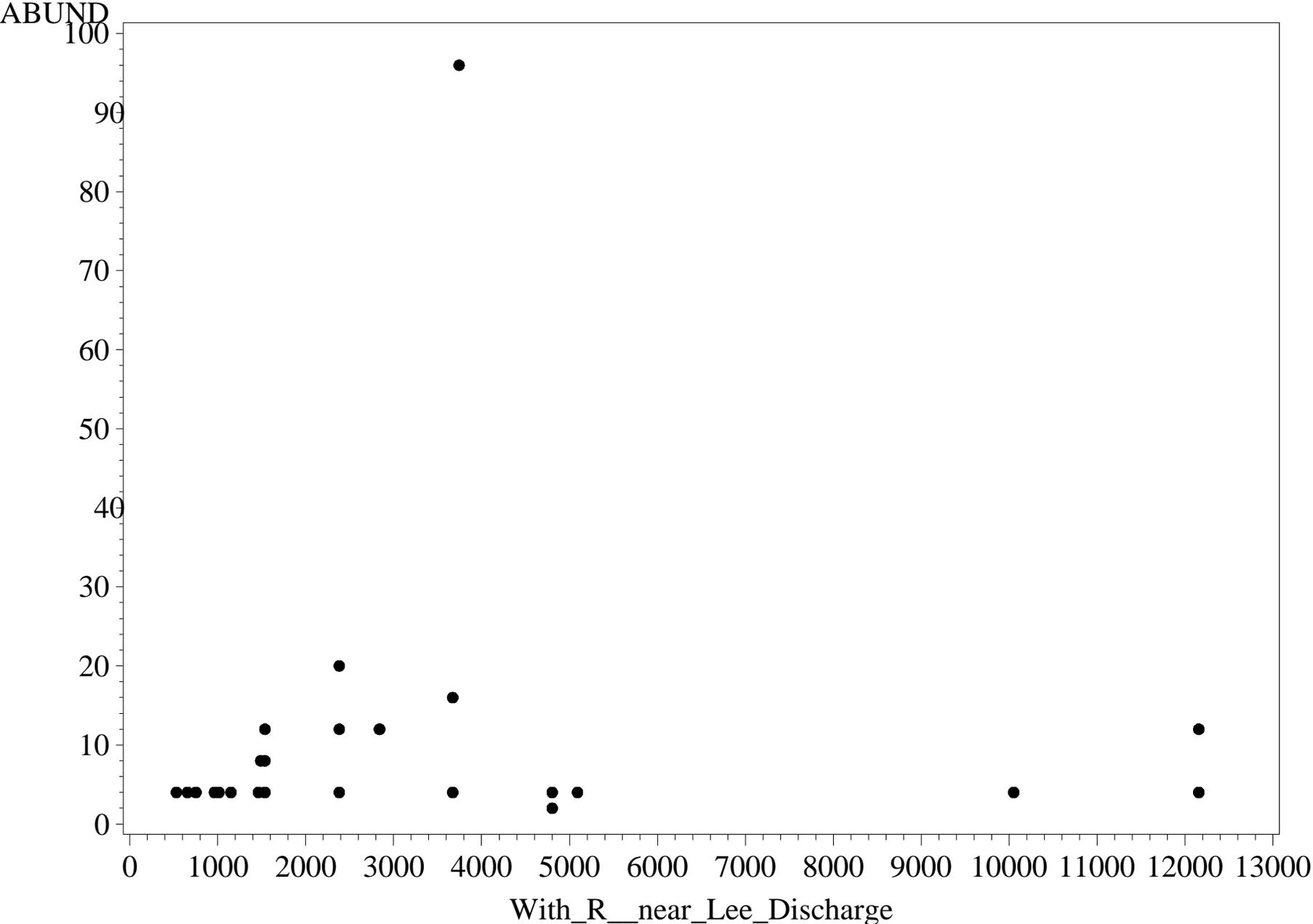
Individual Benthic Species vs. Estimated Withlacoochee Flow (at Lee)

name=THIENEMANNIELLA SP. B



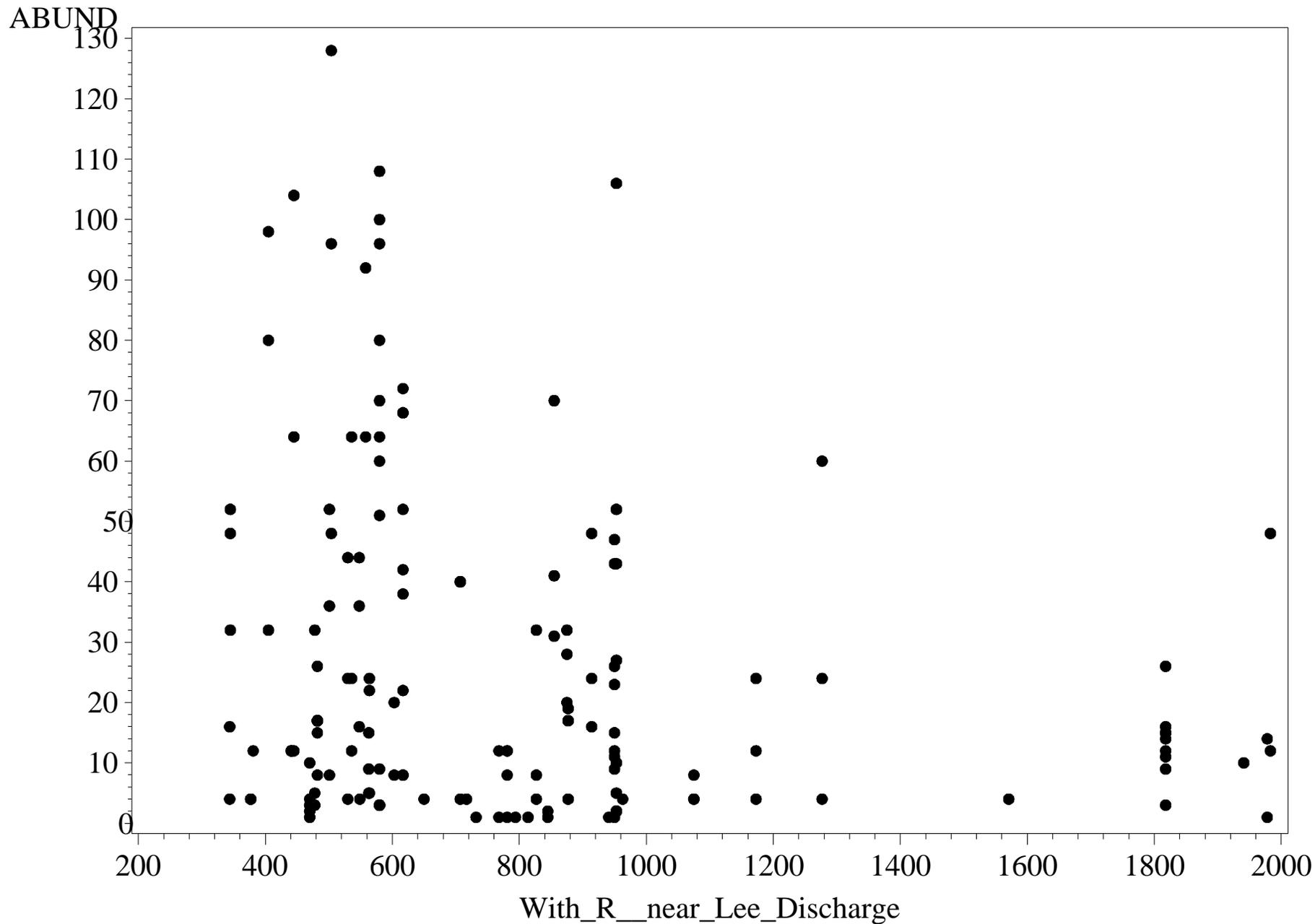
Individual Benthic Species vs. Estimated Withlacoochee Flow (at Lee)

name=THIENEMANNIELLA XENA



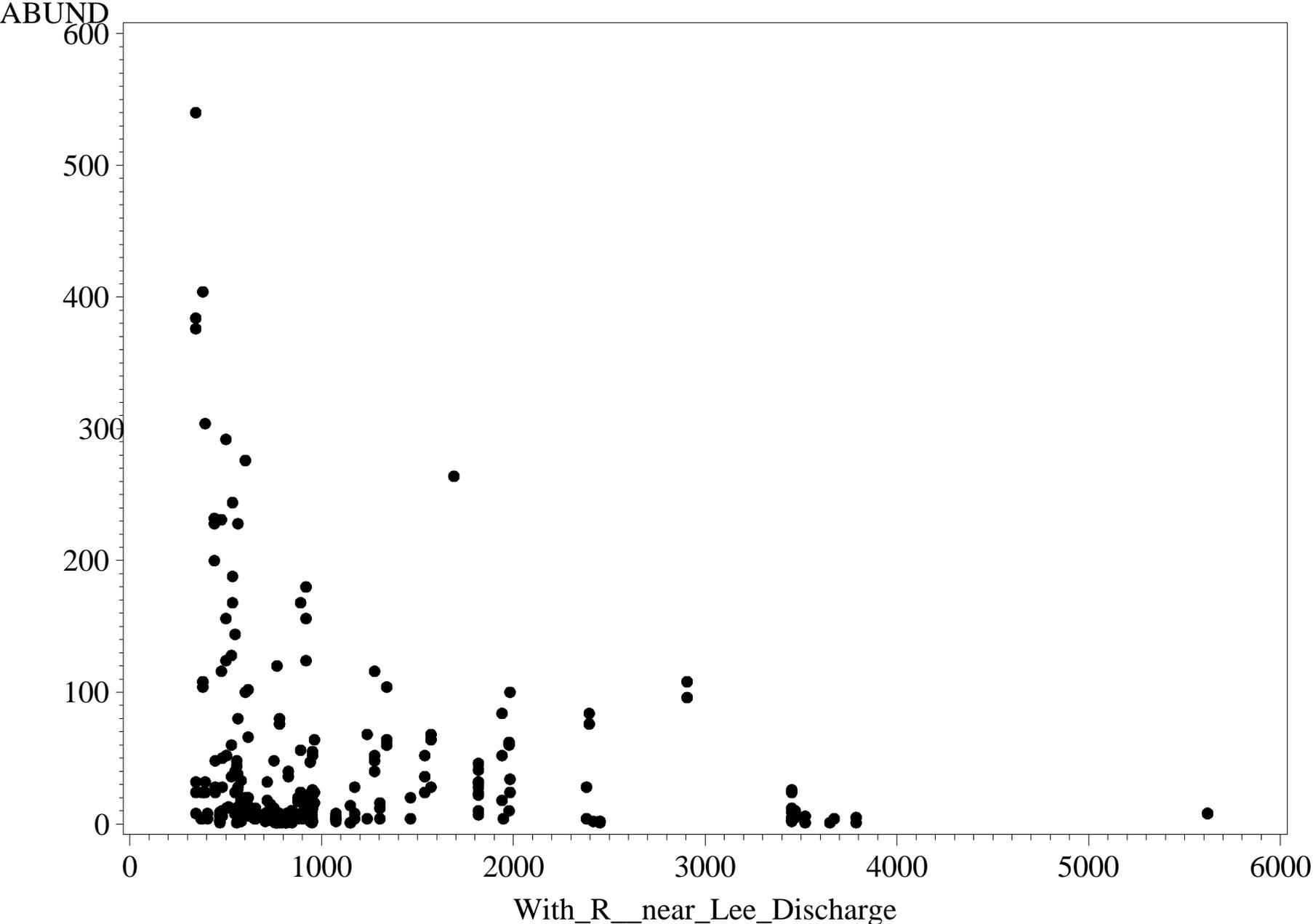
Individual Benthic Species vs. Estimated Withlacoochee Flow (at Lee)

name=TRIBELOS FUSCICORNE



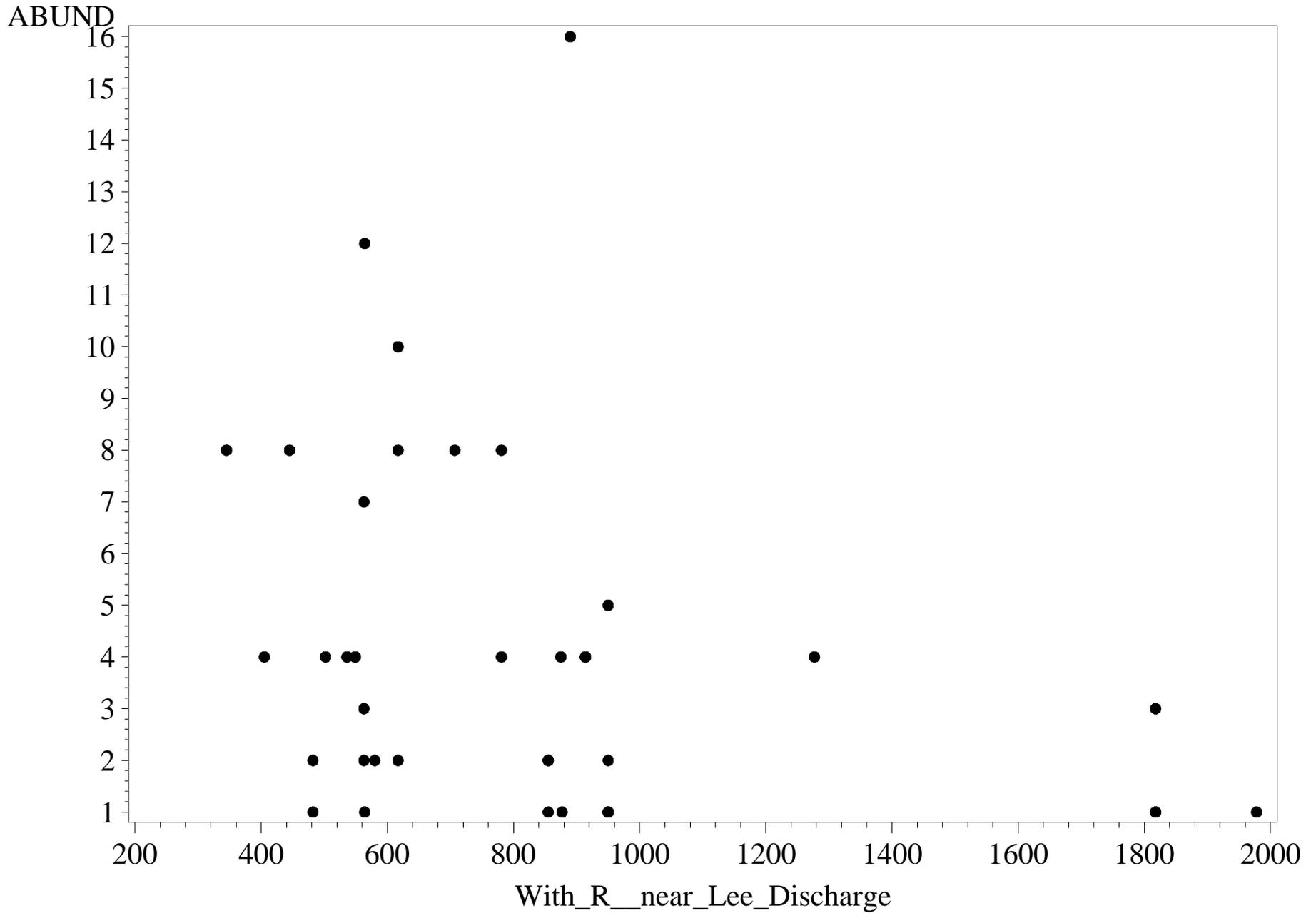
Individual Benthic Species vs. Estimated Withlacoochee Flow (at Lee)

name=TRICORYTHODES ALBILINEATU



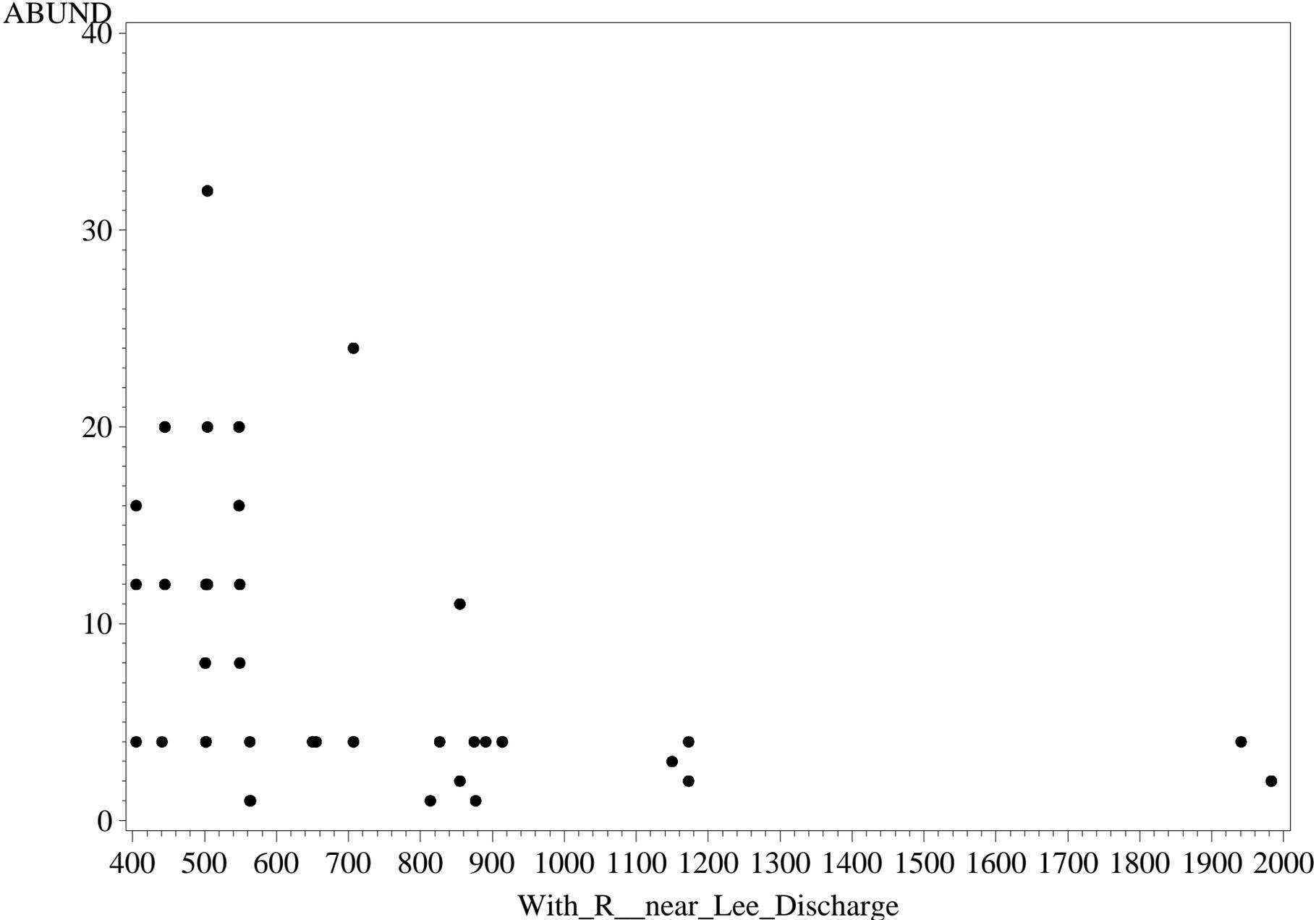
Individual Benthic Species vs. Estimated Withlacoochee Flow (at Lee)

name=UNID CERATOPOGONID SP.



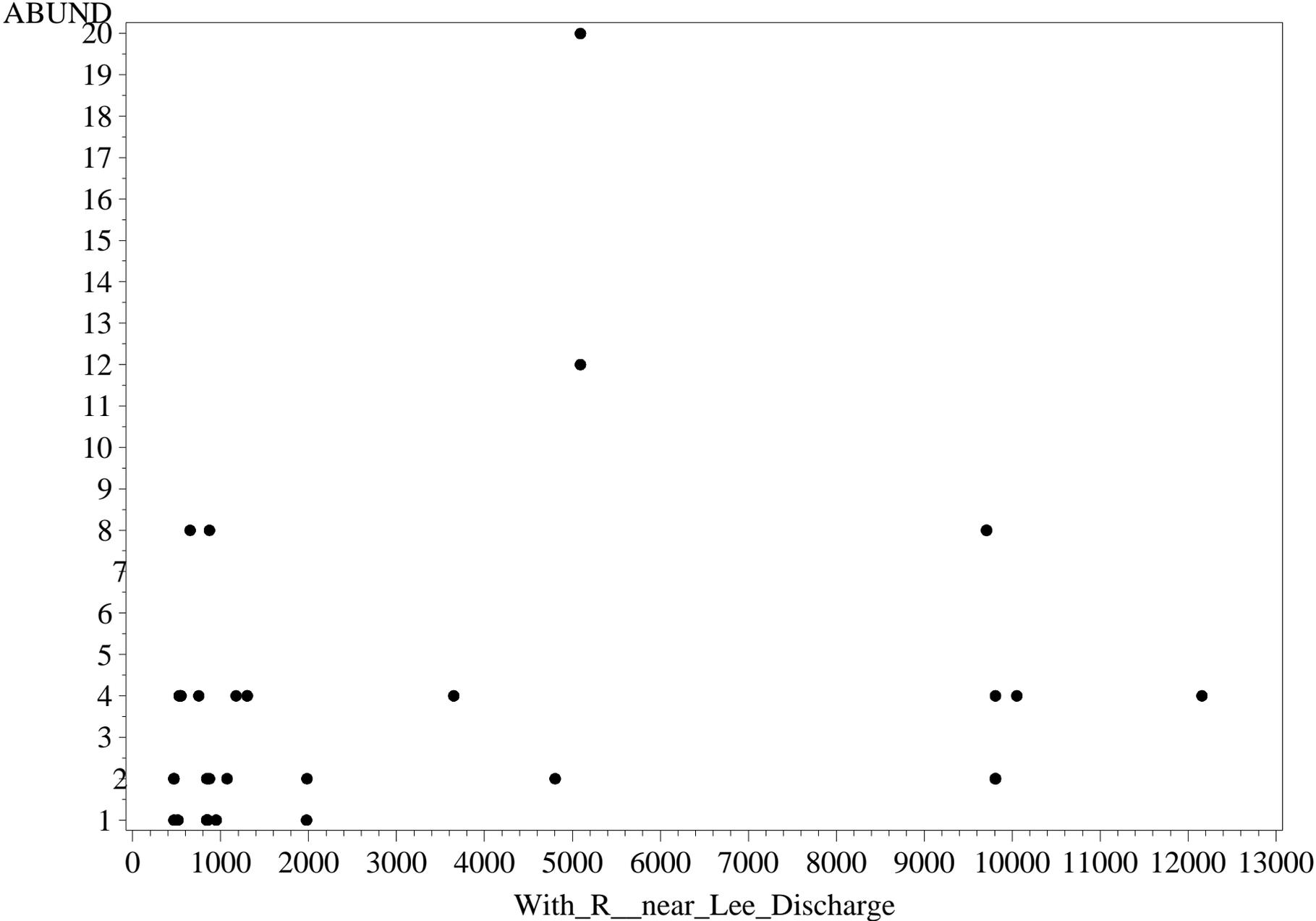
Individual Benthic Species vs. Estimated Withlacoochee Flow (at Lee)

name=UNID HYDROBIID SP.

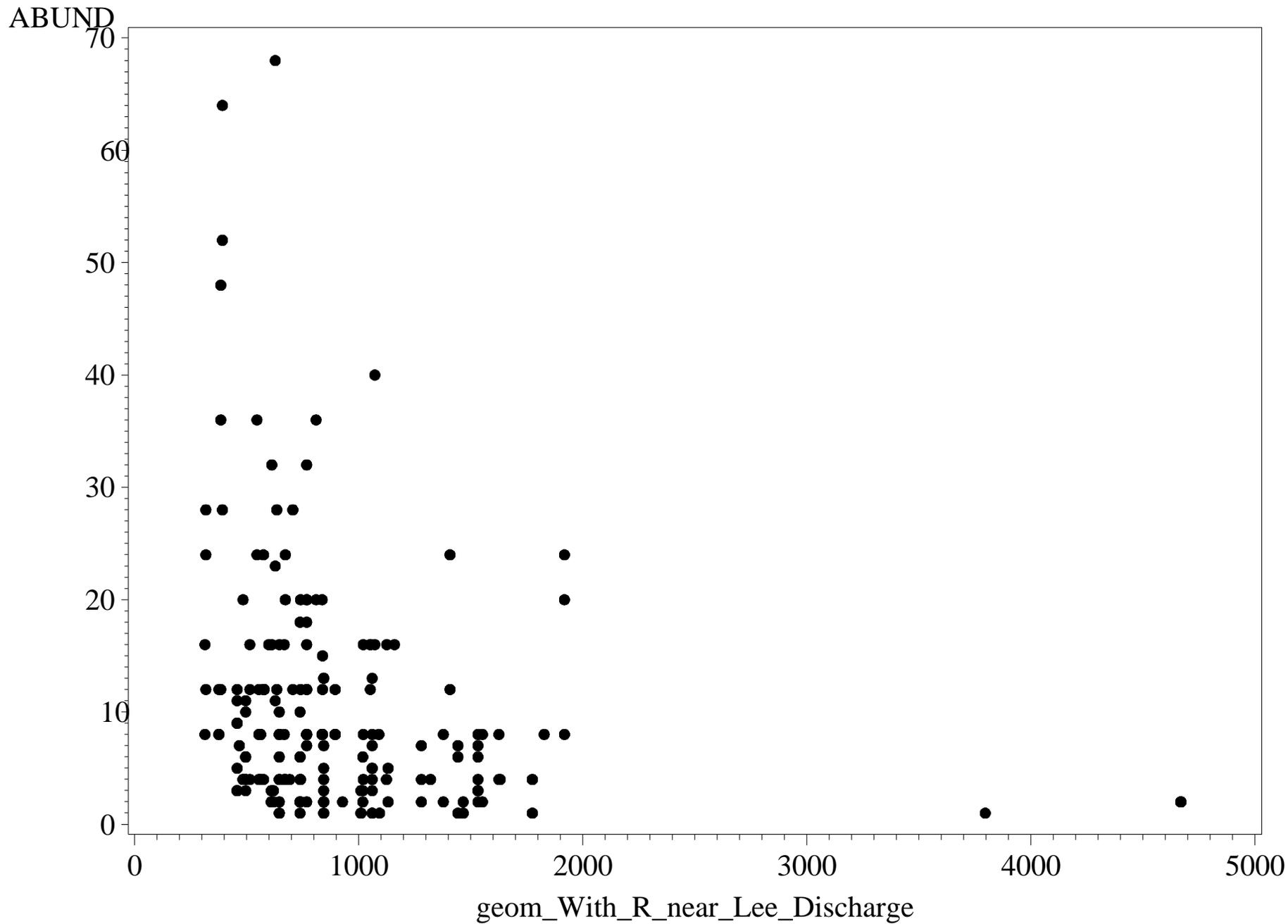


Individual Benthic Species vs. Estimated Withlacoochee Flow (at Lee)

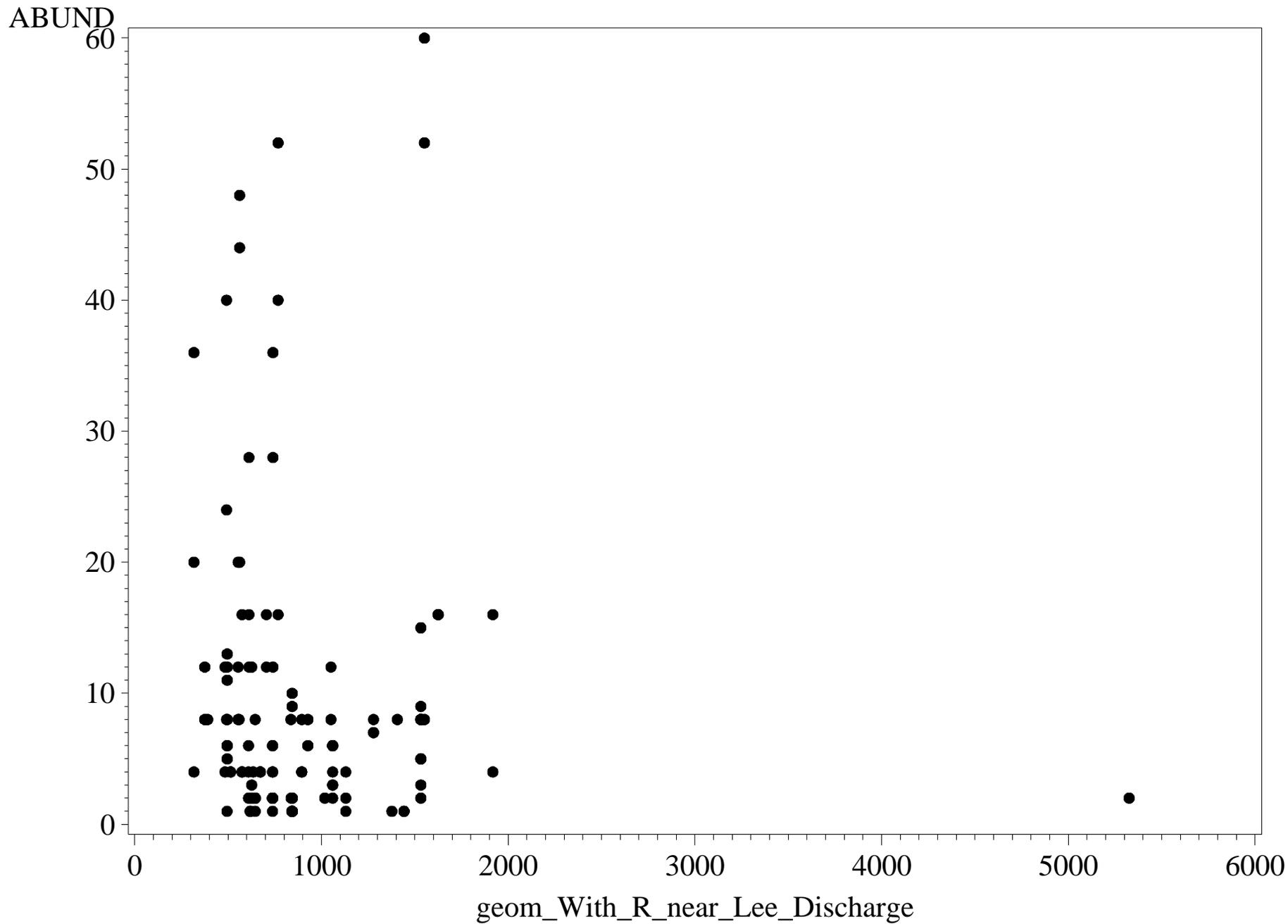
name=UNID NEMATODE SP.



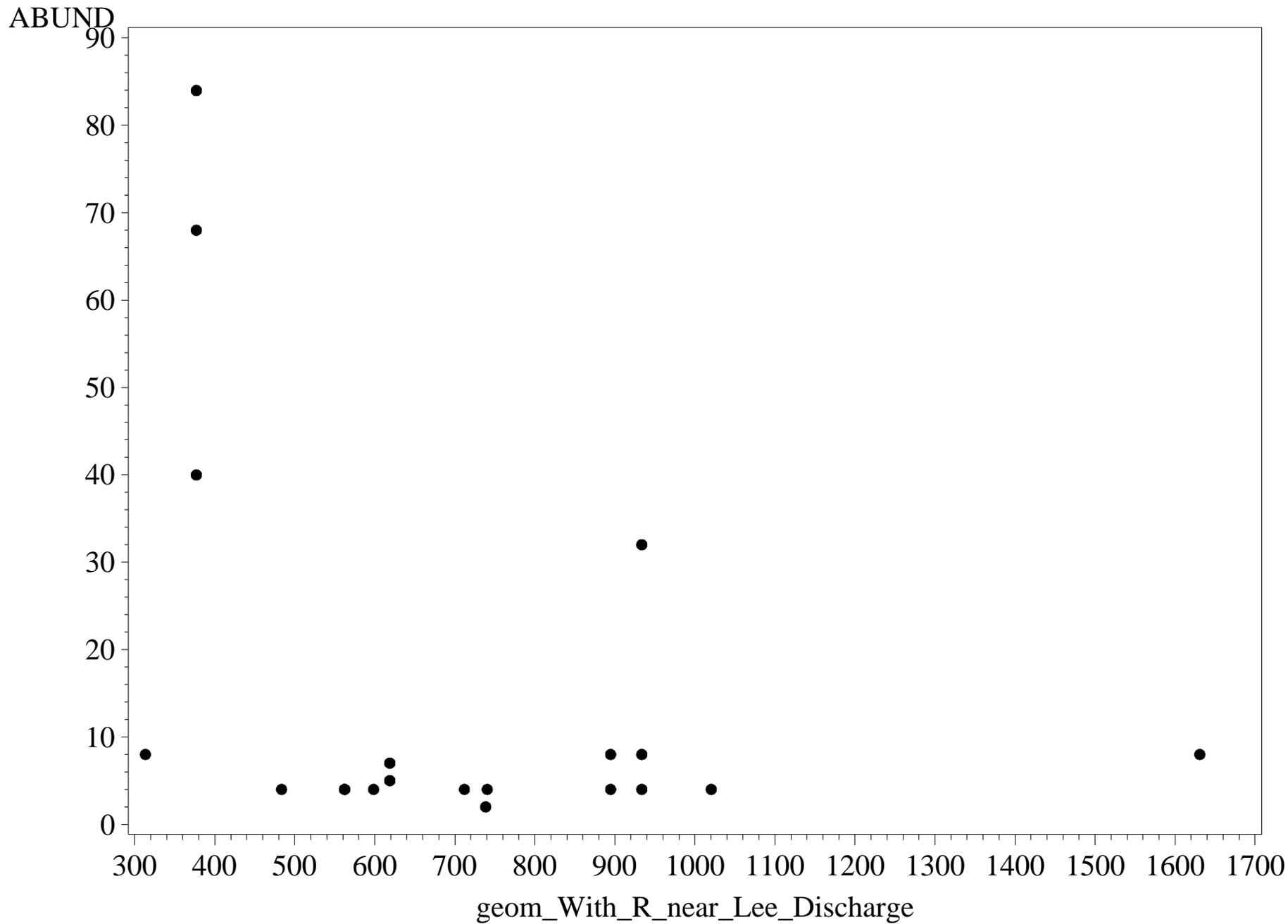
Individual Benthic Species vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)
name=ABLABESMYIA MALLOCHI



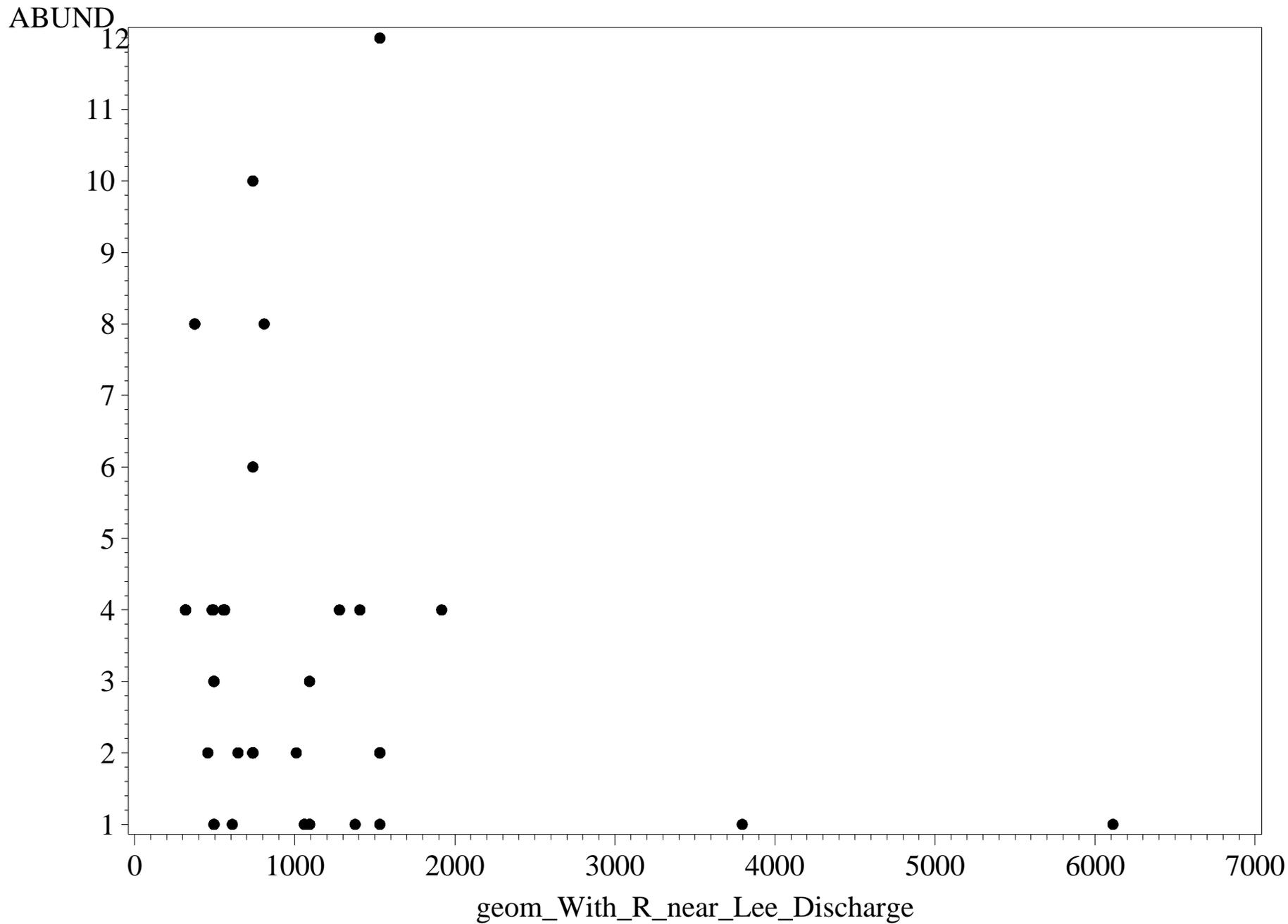
Individual Benthic Species vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)
name=ABLABESMYIA RHAMPHE GRP



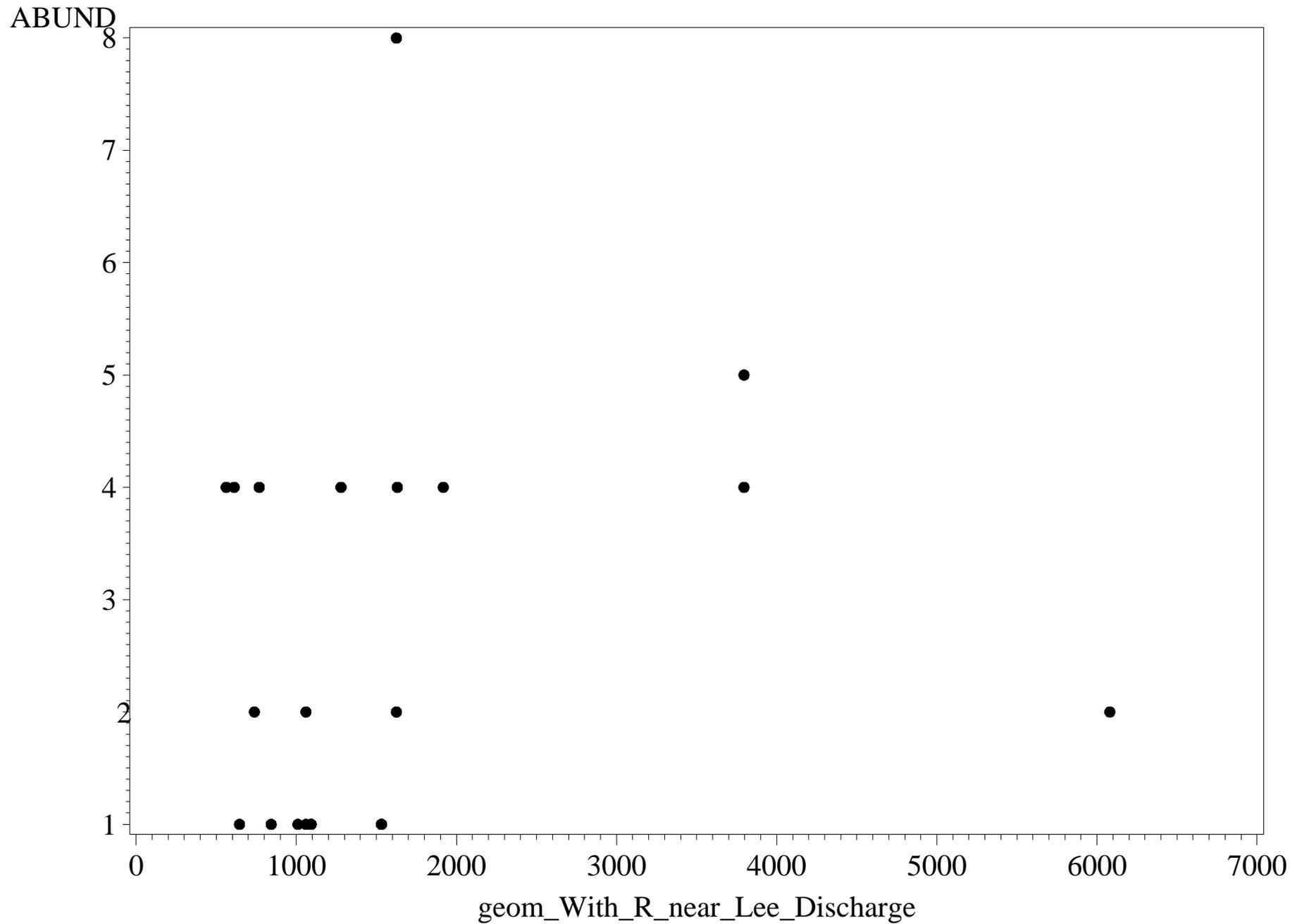
Individual Benthic Species vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)
name=AEOLOSOMA SP.



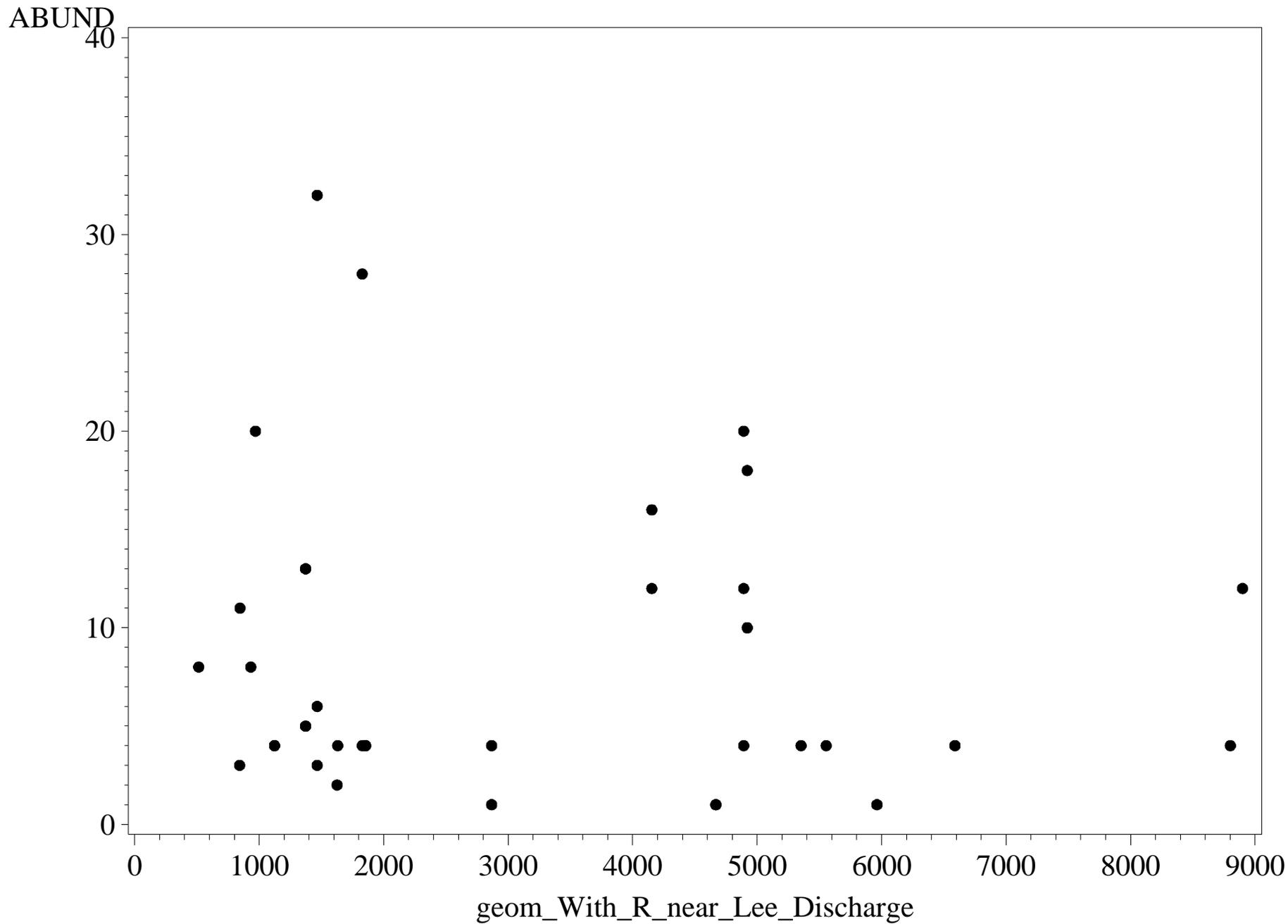
Individual Benthic Species vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)
name=ARGIA SP.



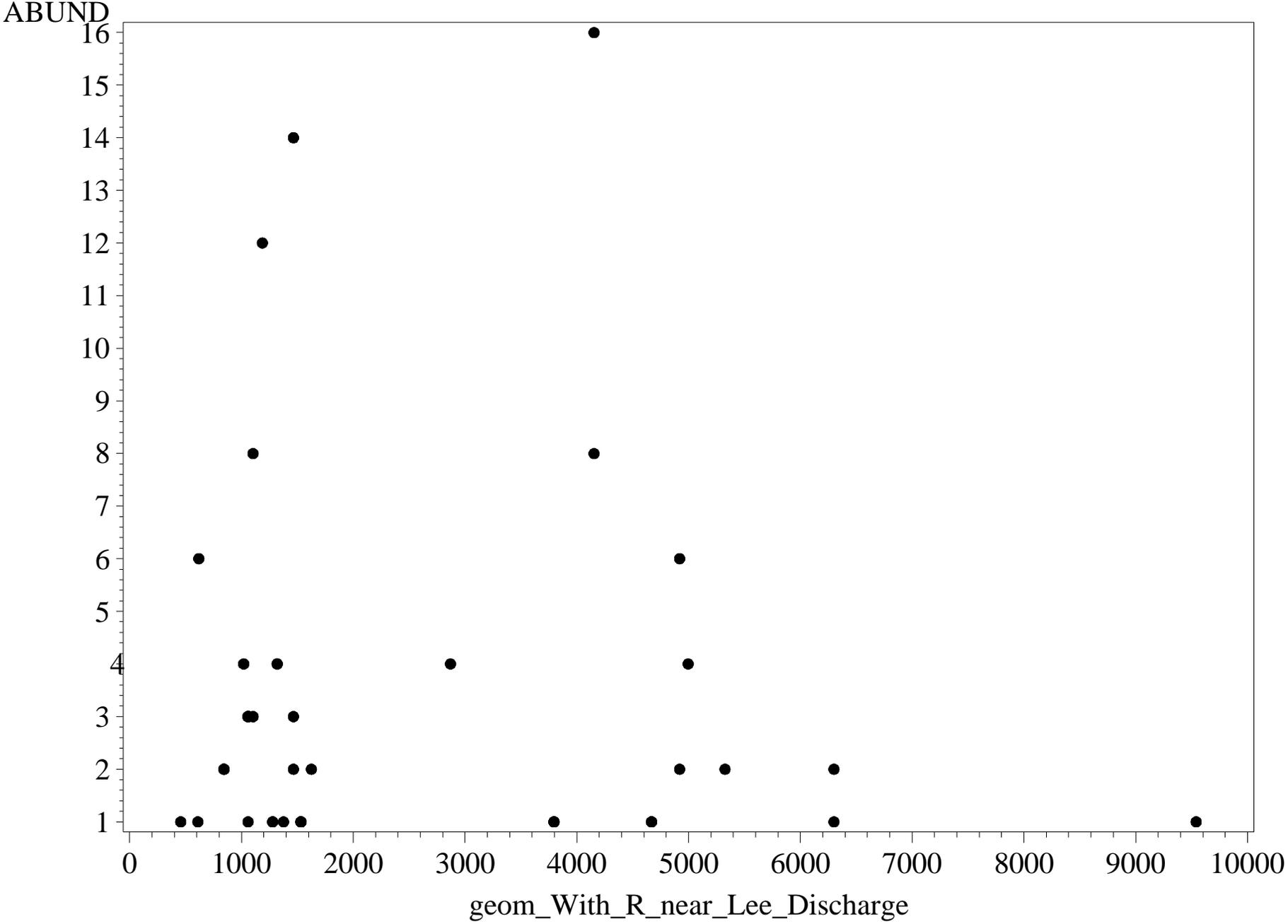
Individual Benthic Species vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)
name=ATRICHOPOGON SP.



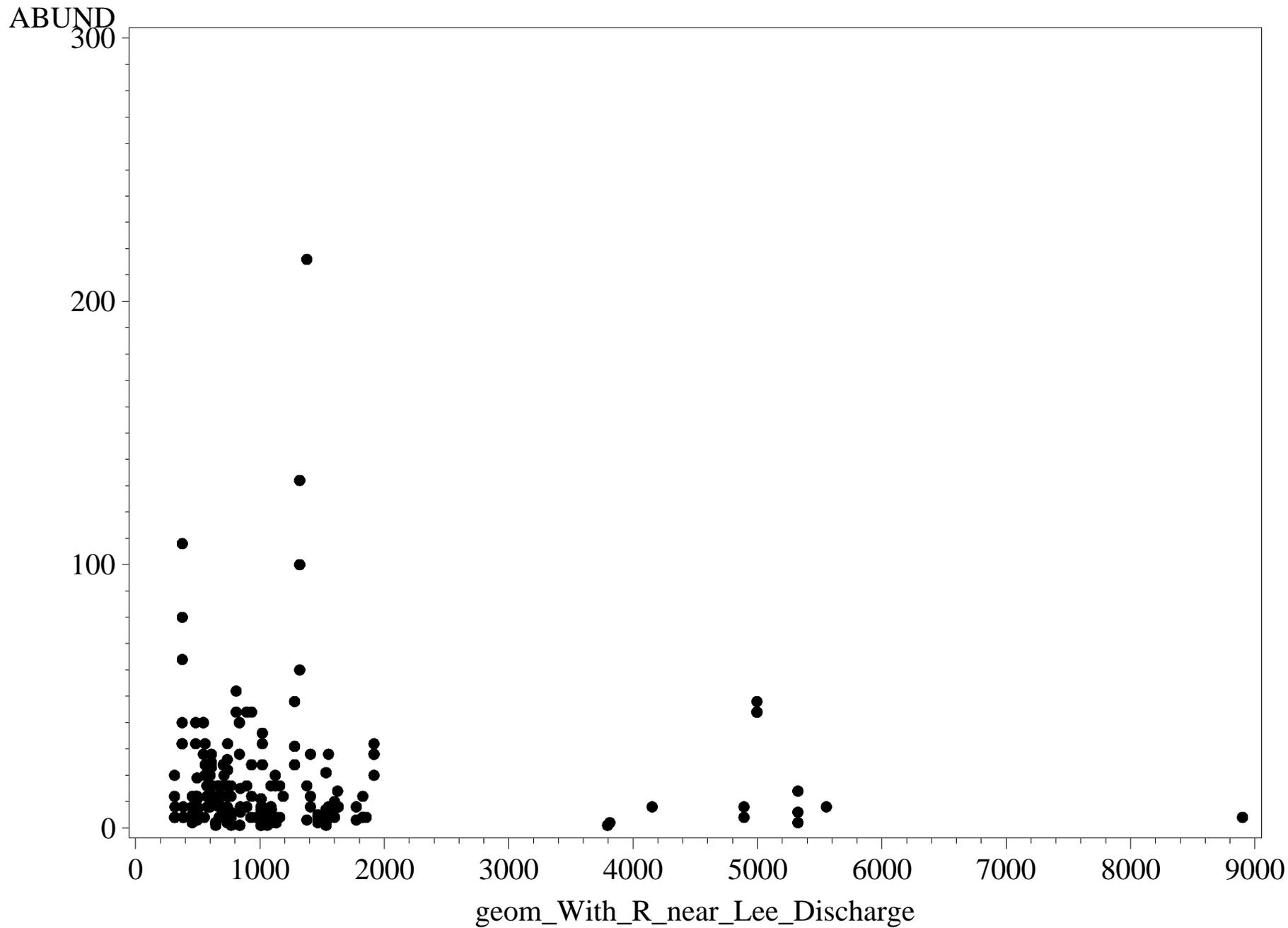
Individual Benthic Species vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)
name=BAETIS INTERCALARI



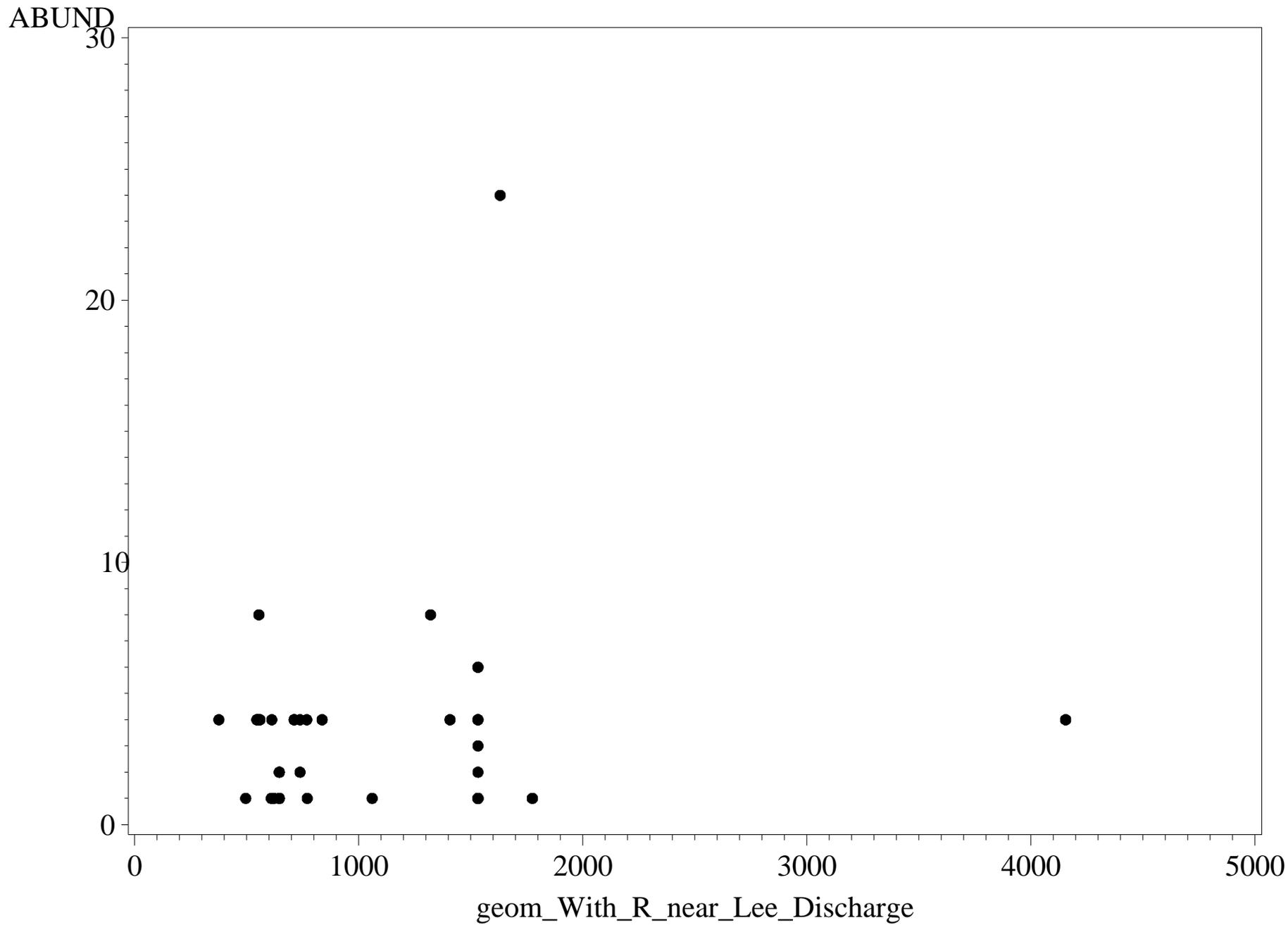
Individual Benthic Species vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)
name=BAETIS SP.



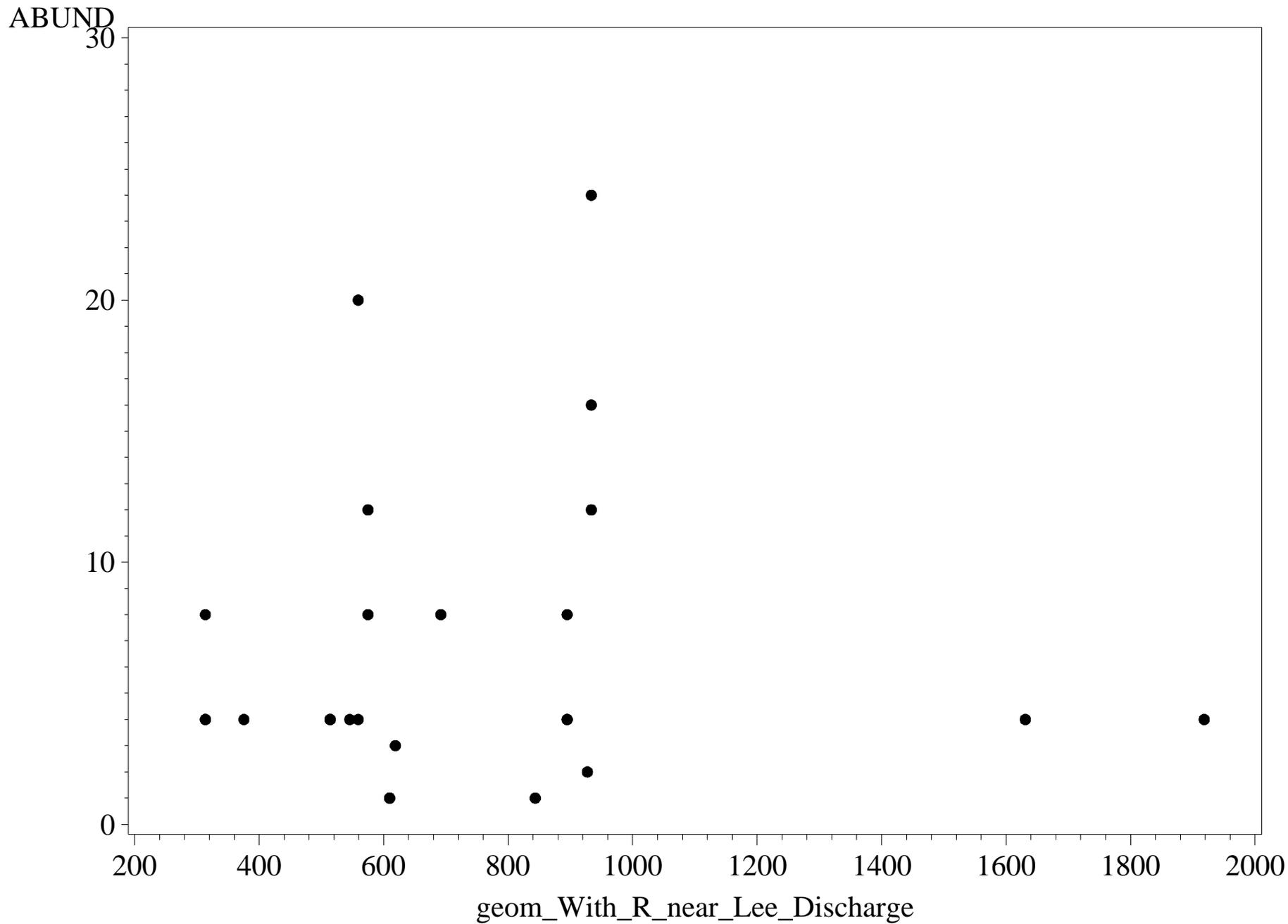
Individual Benthic Species vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)
name=BEZZIA/PALPOMYIA GRP SPP.



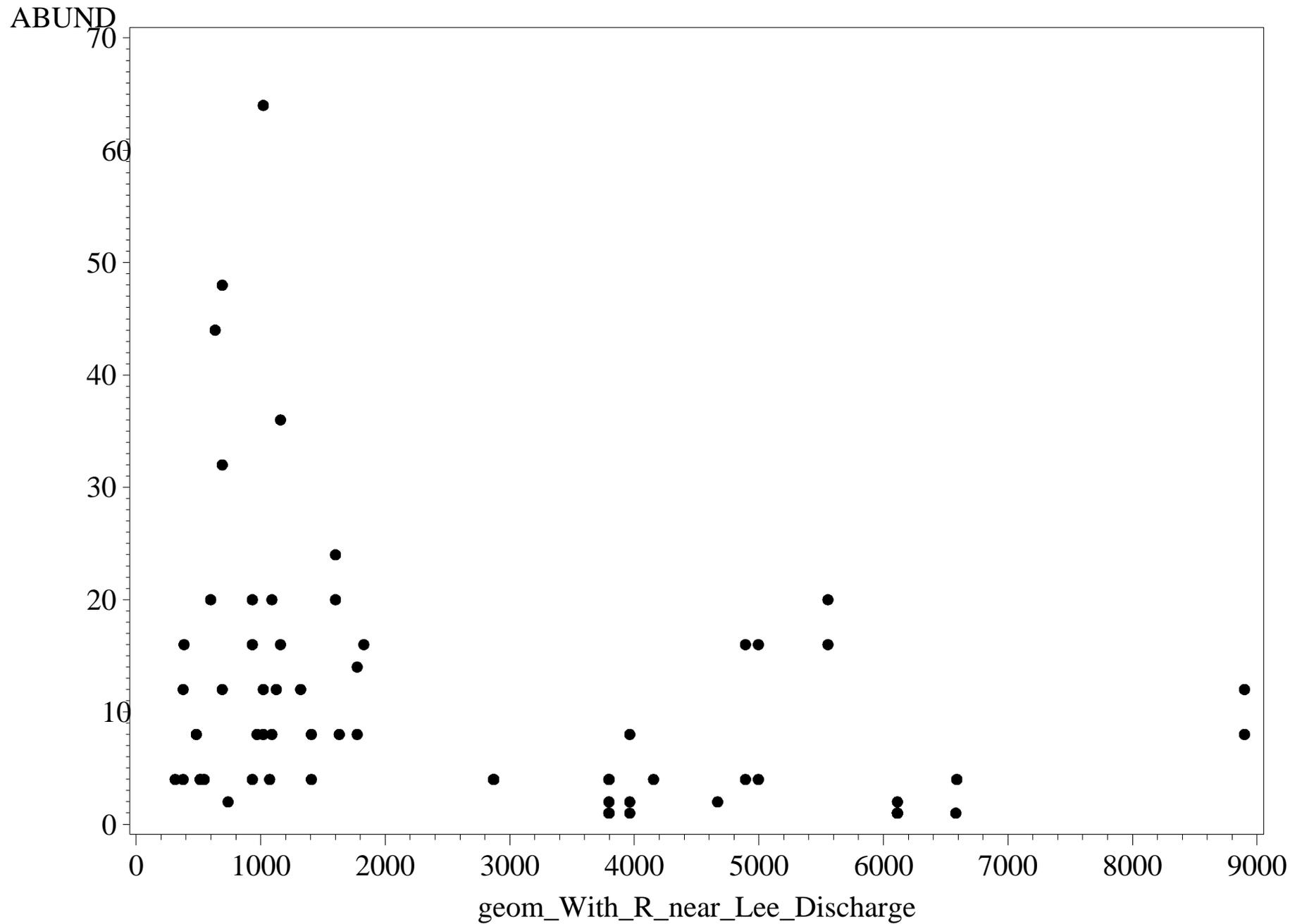
Individual Benthic Species vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)
name=CAENIS SP.



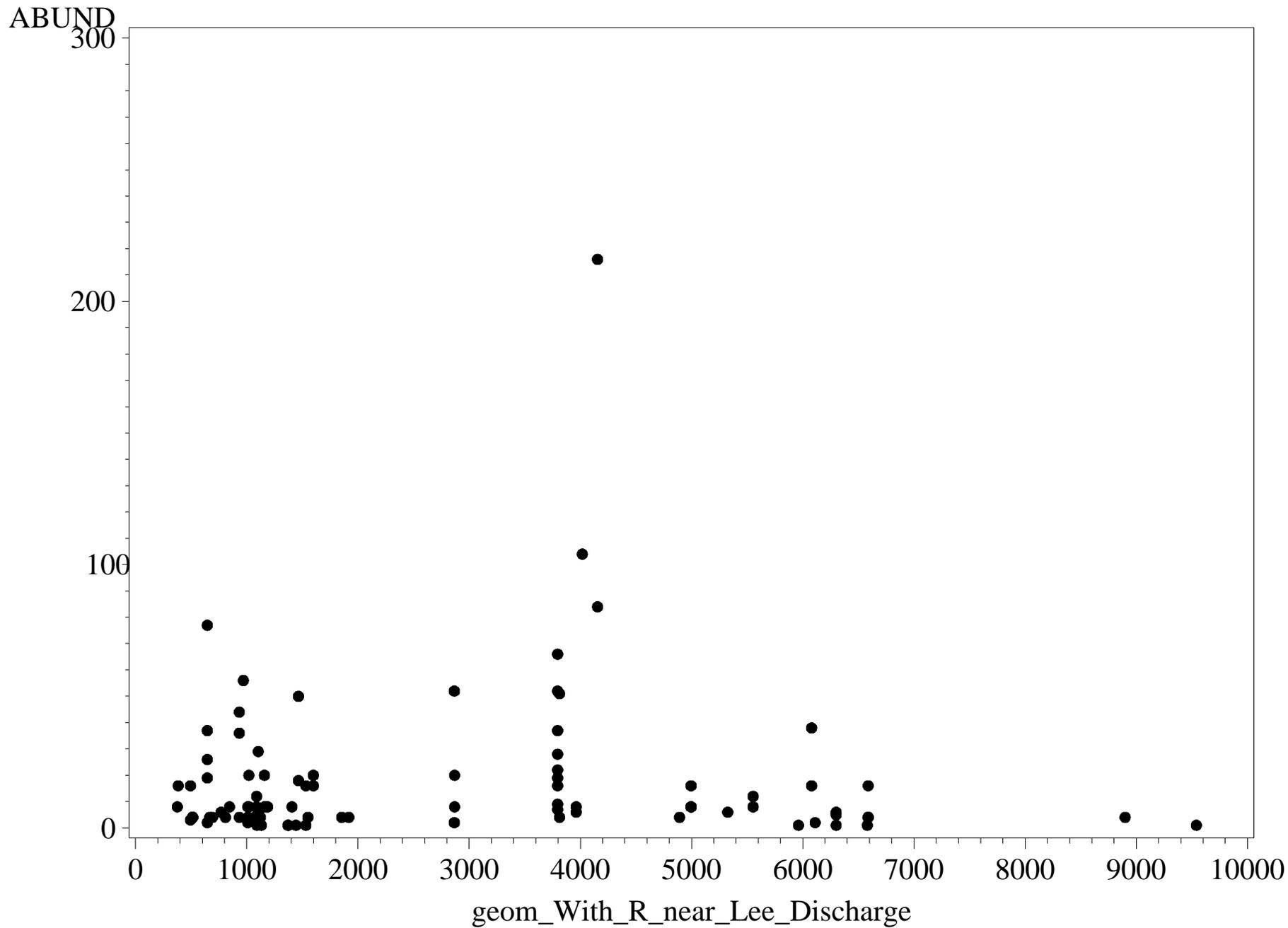
Individual Benthic Species vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)
name=CHAETOGASTER DIAPHANUS



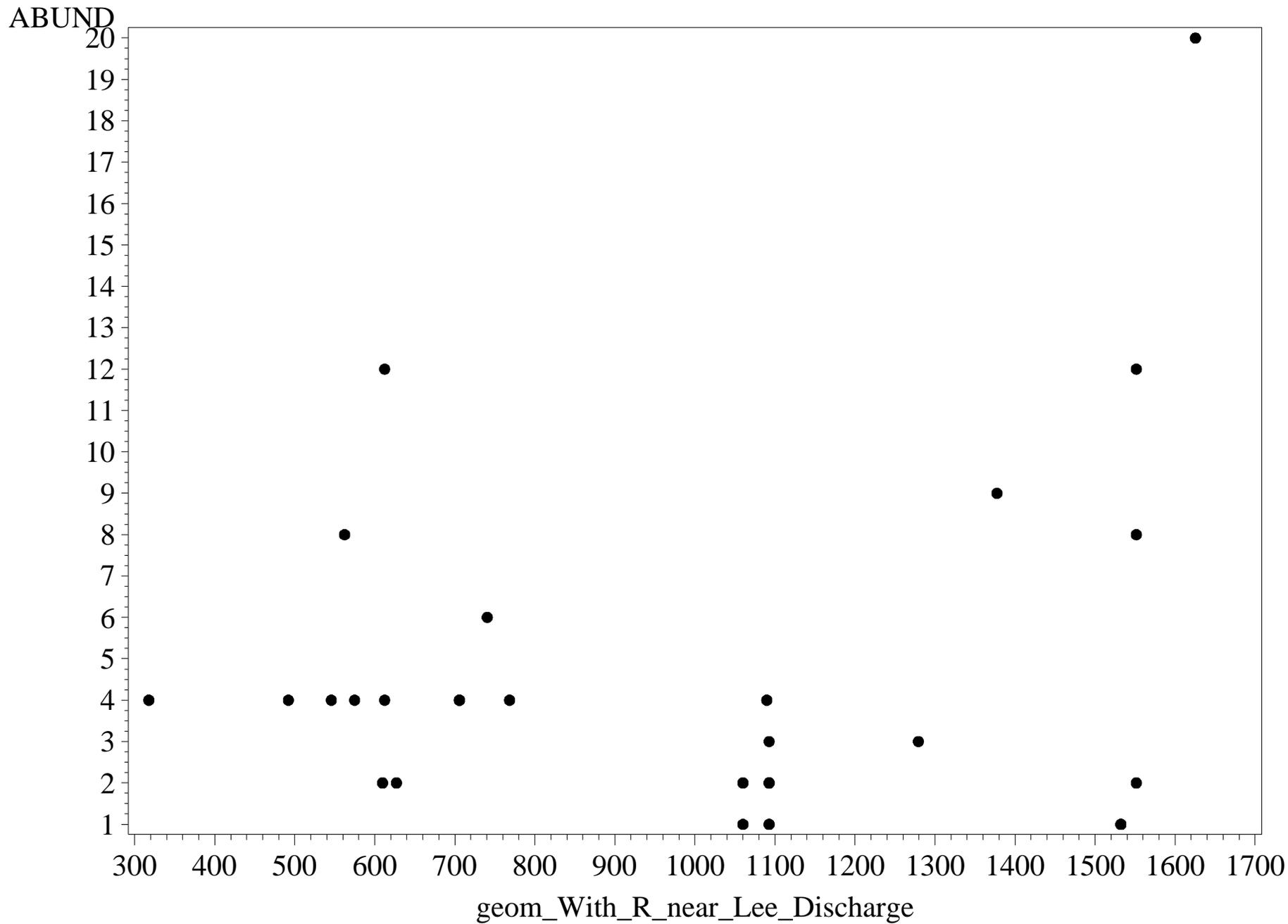
Individual Benthic Species vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)
name=CHEUMATOPSYCHE SP.



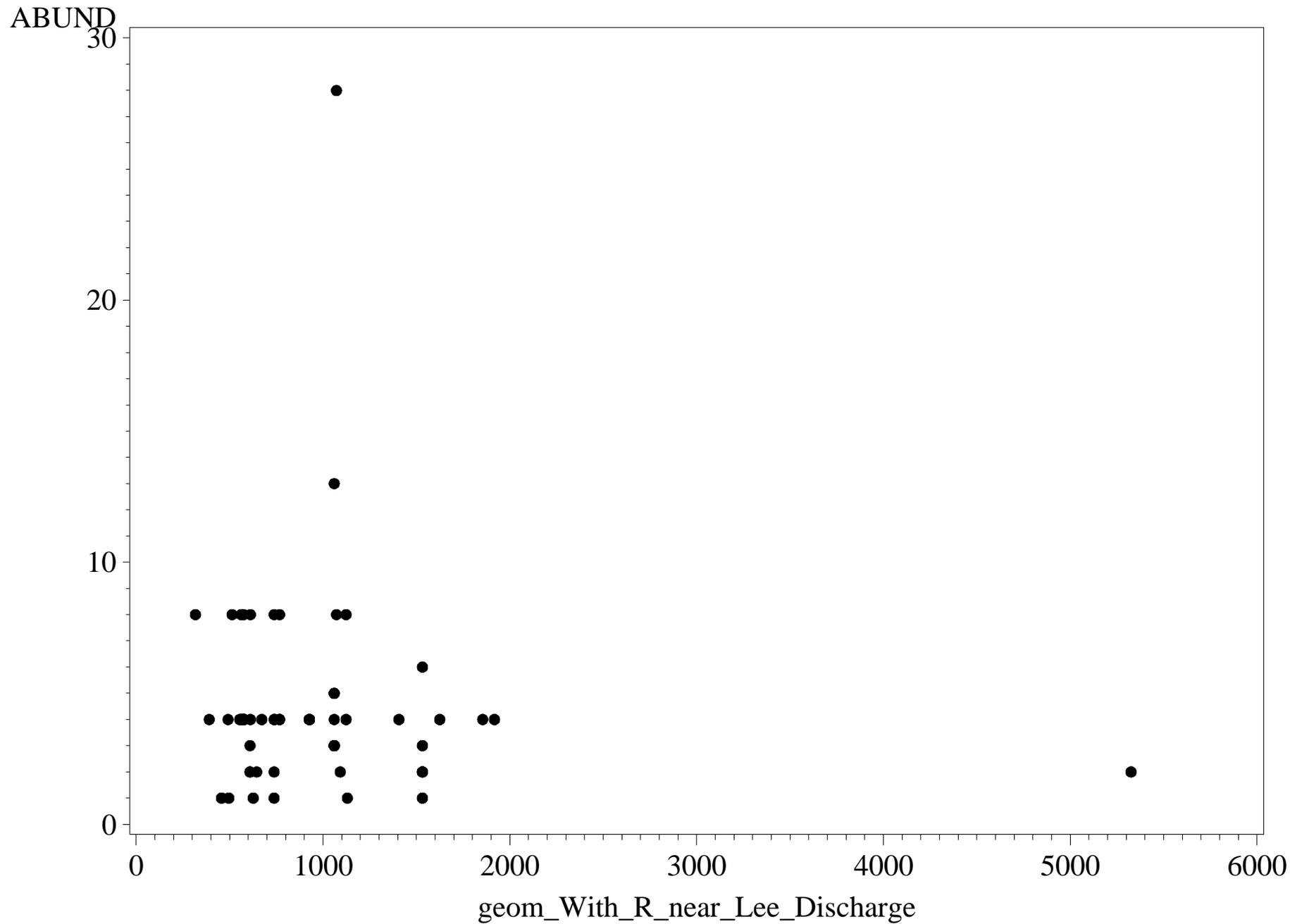
Individual Benthic Species vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)
name=CHIMARRA SP.



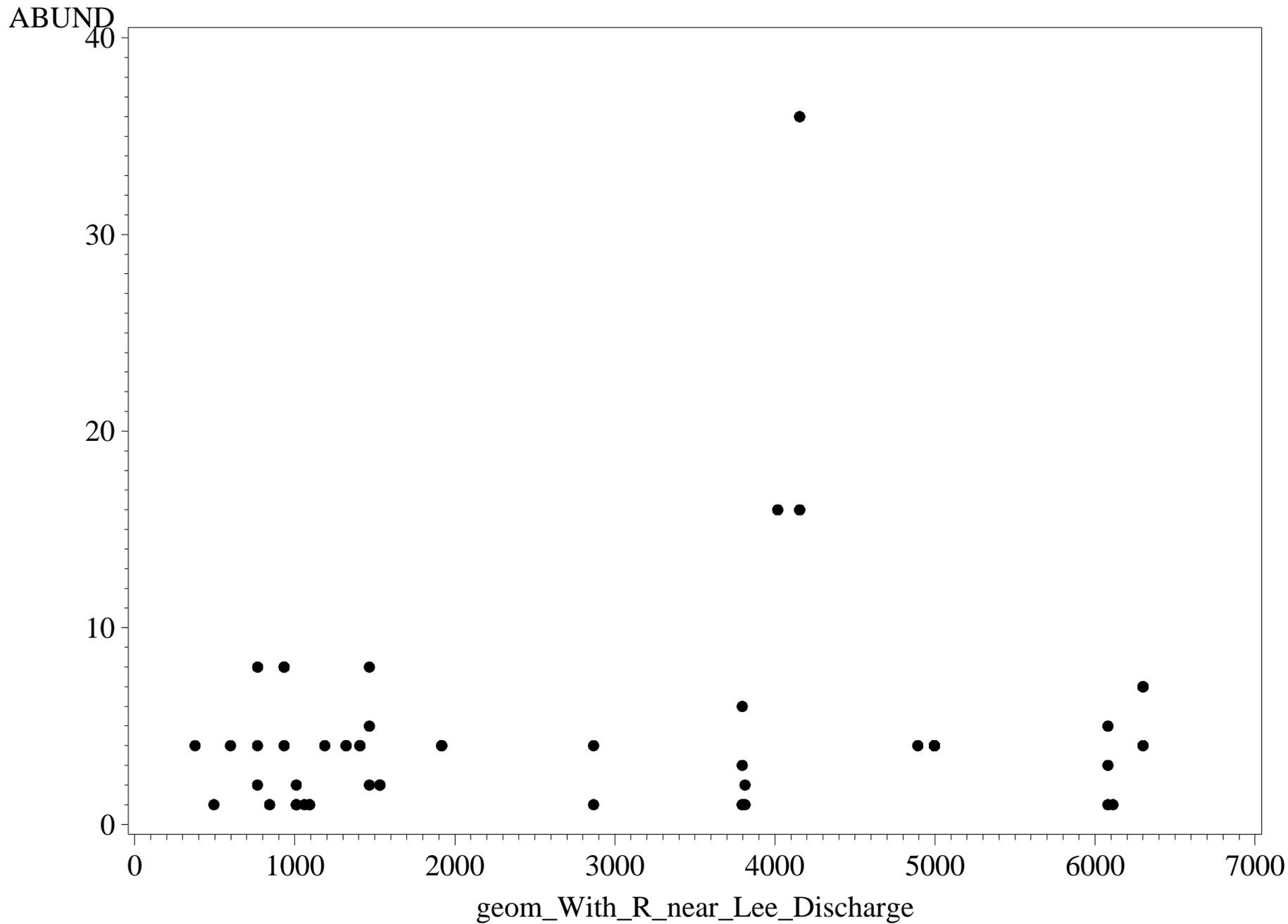
Individual Benthic Species vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)
name=CHIRONOMINI SP.



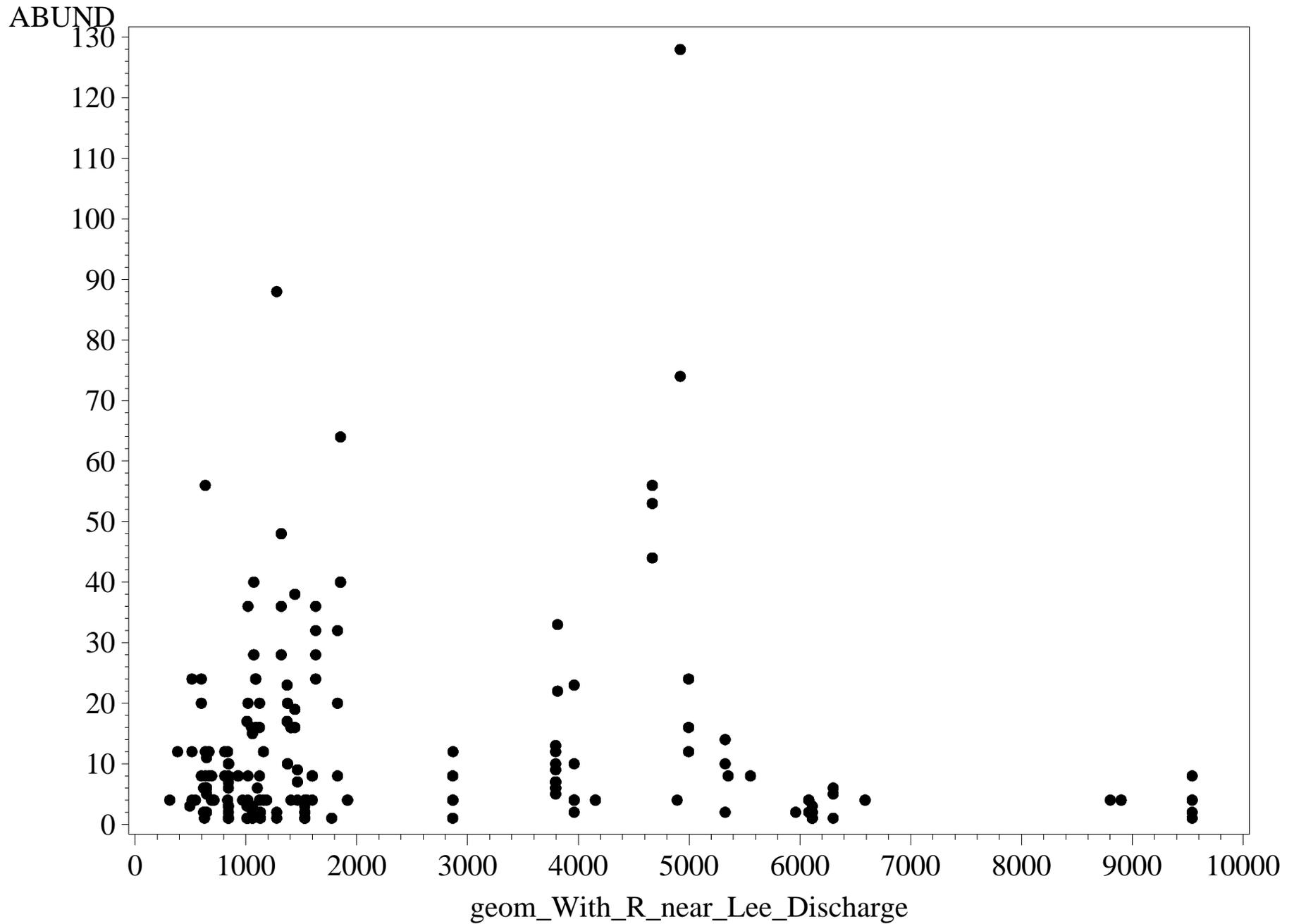
Individual Benthic Species vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)
name=CLADOTANYTARSUS SP.



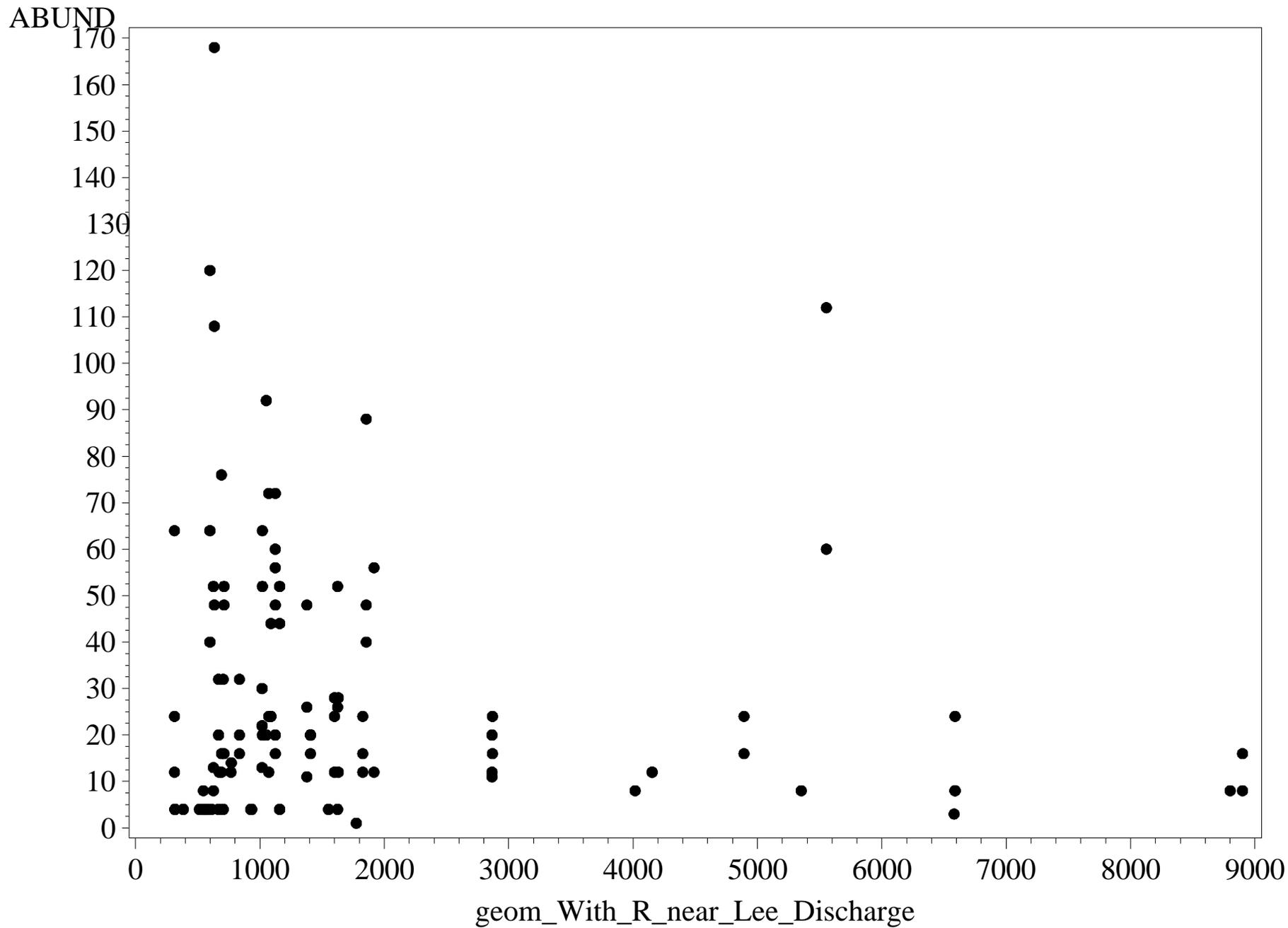
Individual Benthic Species vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)
name=CORYDALUS CORNUTUS



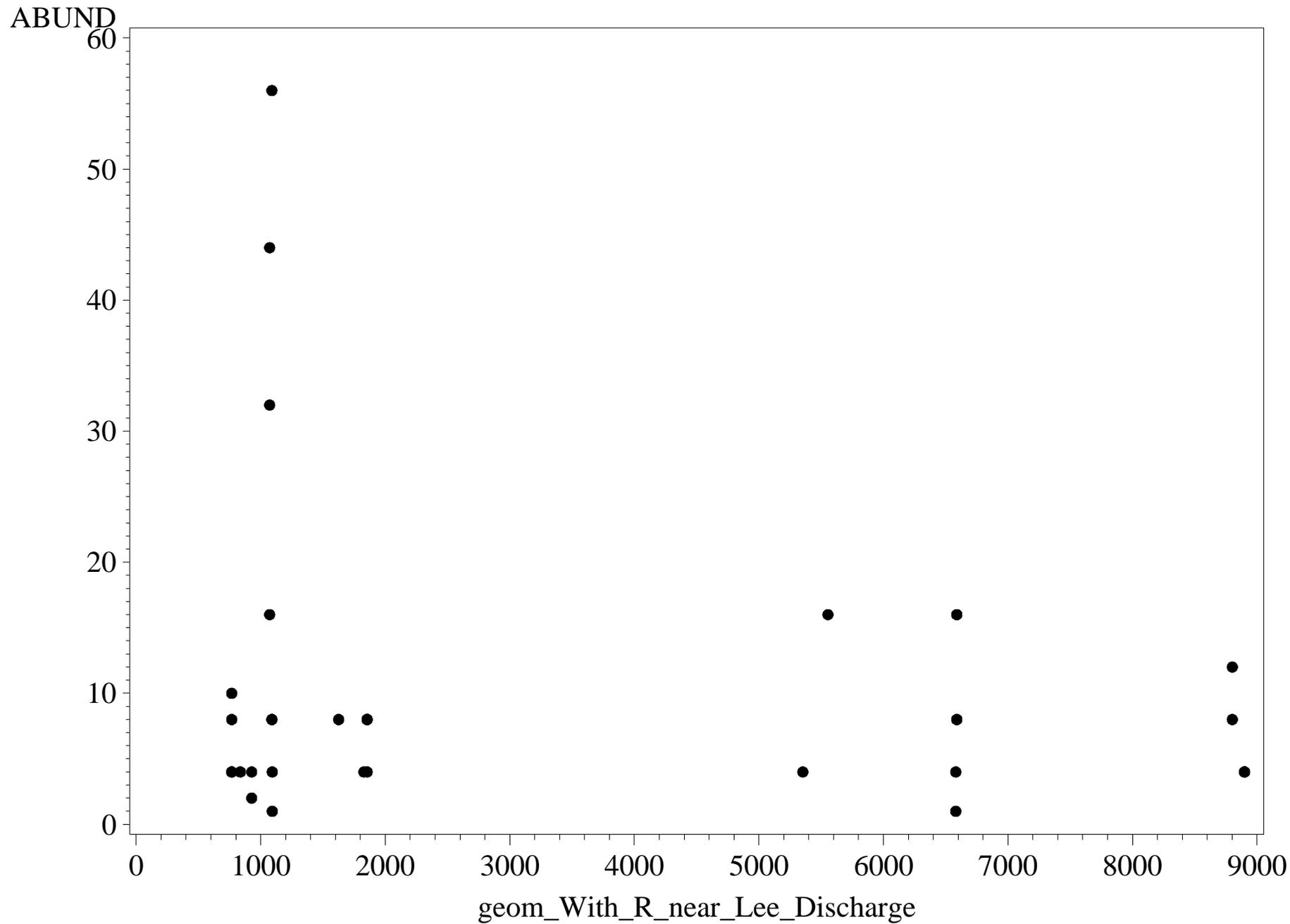
Individual Benthic Species vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)
name=CORYNONEURA SP.



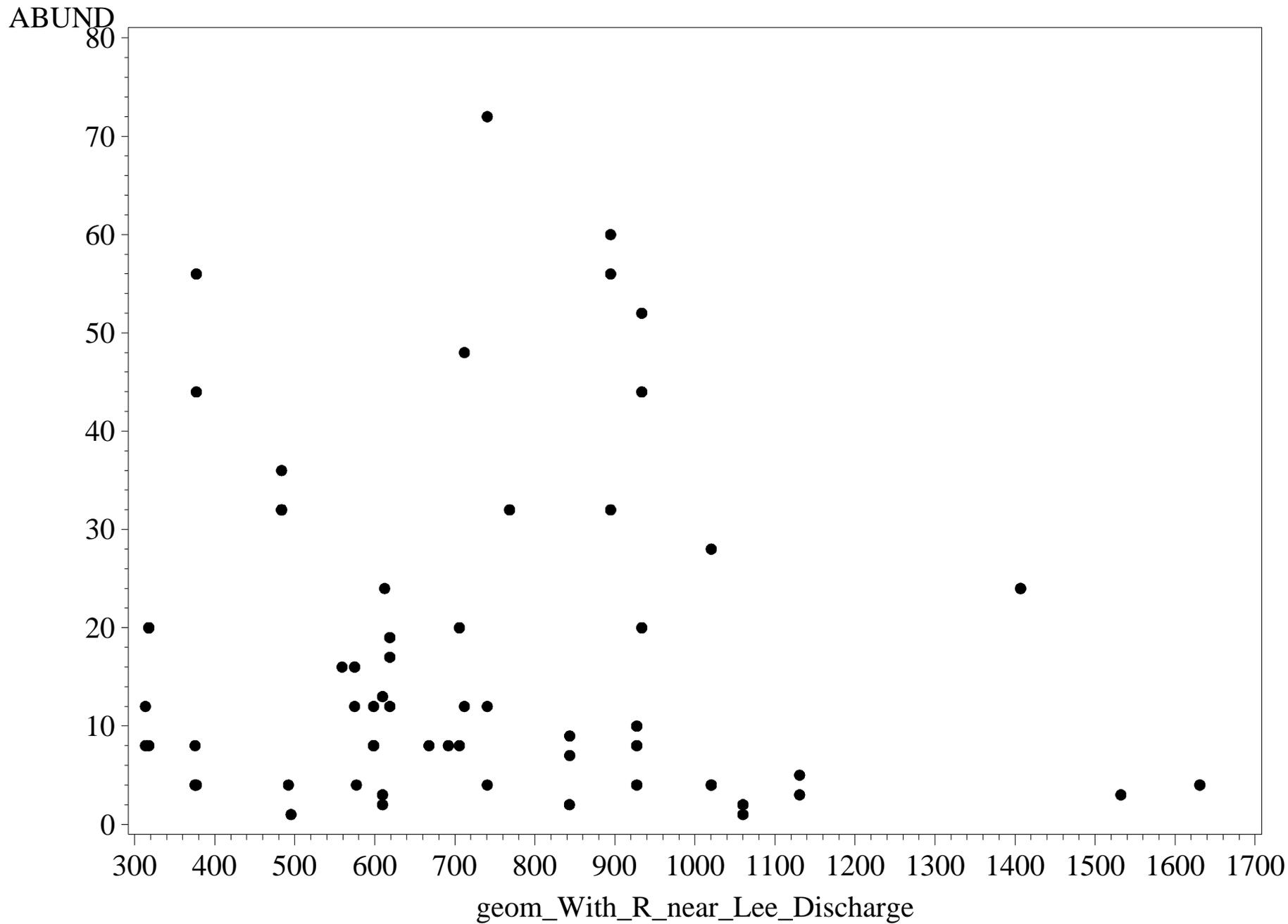
Individual Benthic Species vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)
name=CORYNONEURA SP. B



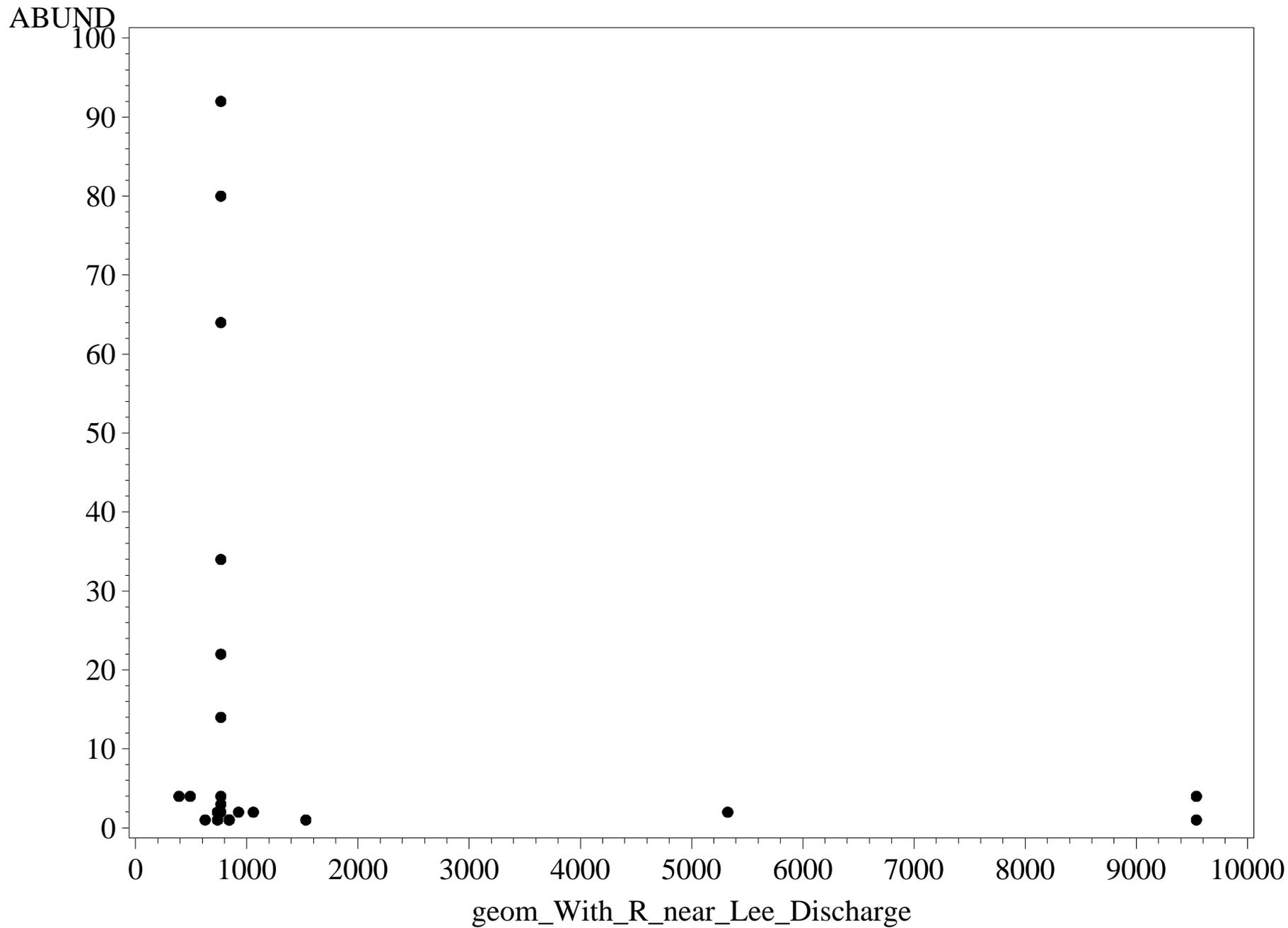
Individual Benthic Species vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)
name=CORYNONEURA TARIS



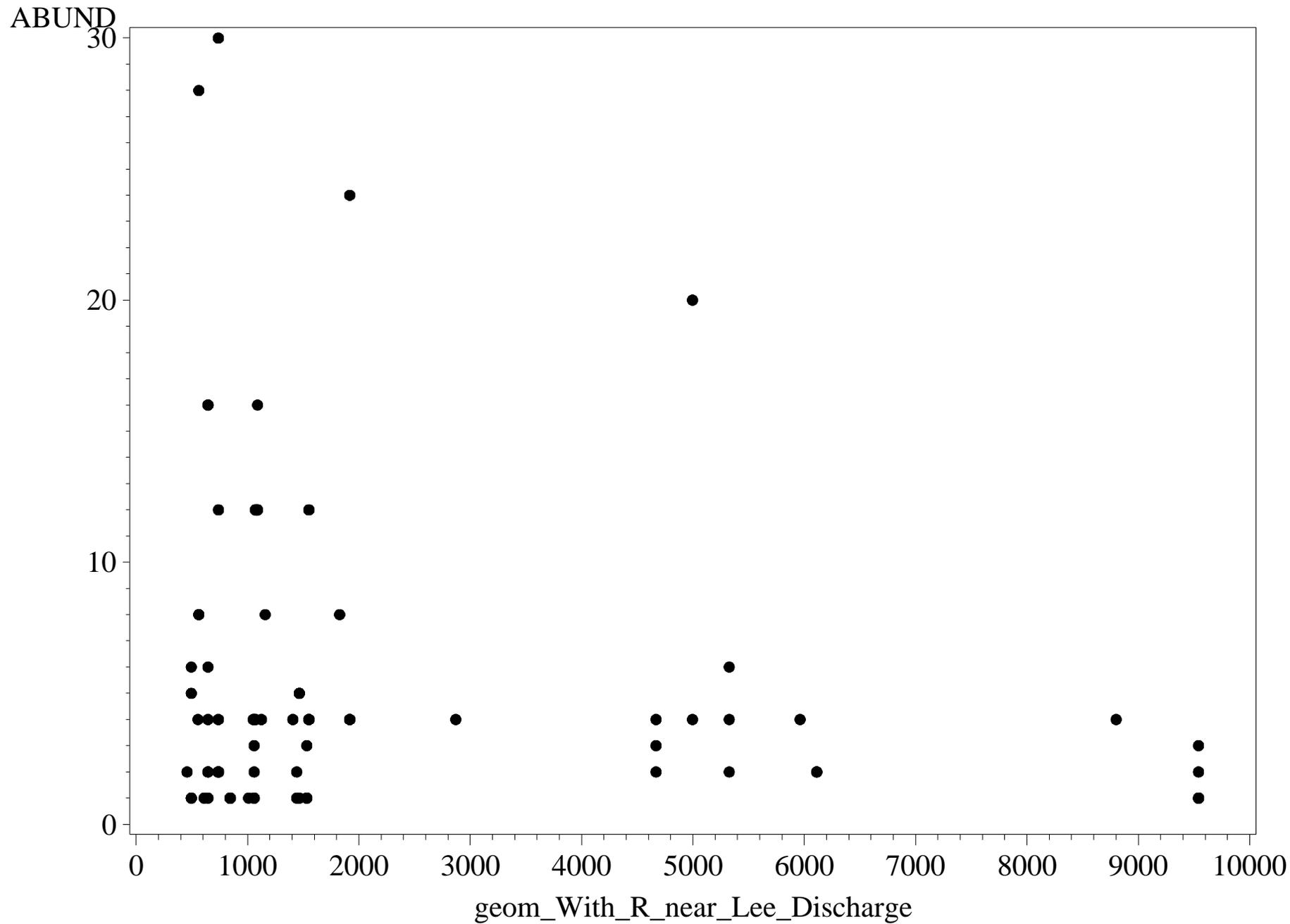
Individual Benthic Species vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)
name=CRICOTOPUS POLITUS



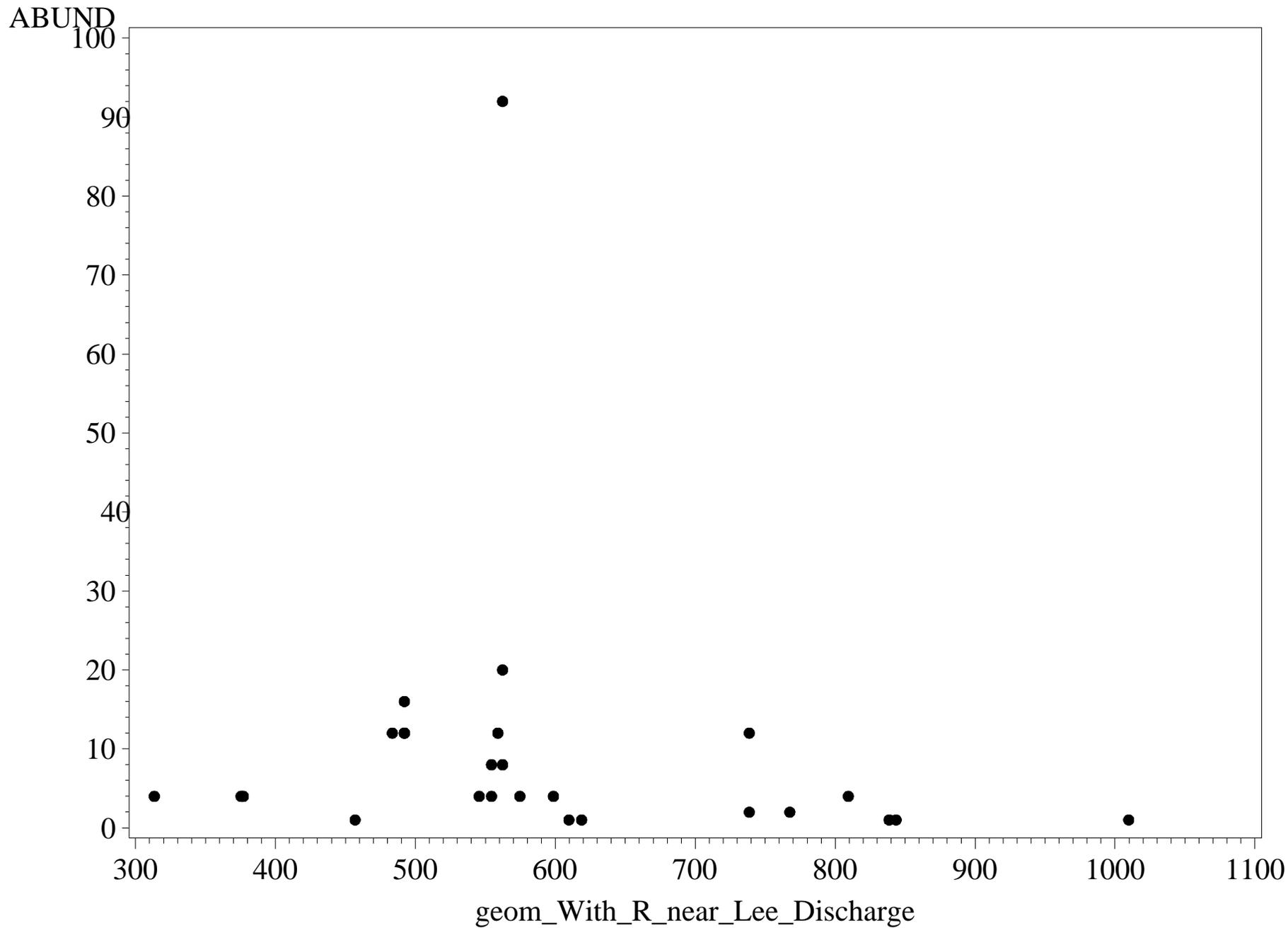
Individual Benthic Species vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)
name=CRICOTOPUS SP.



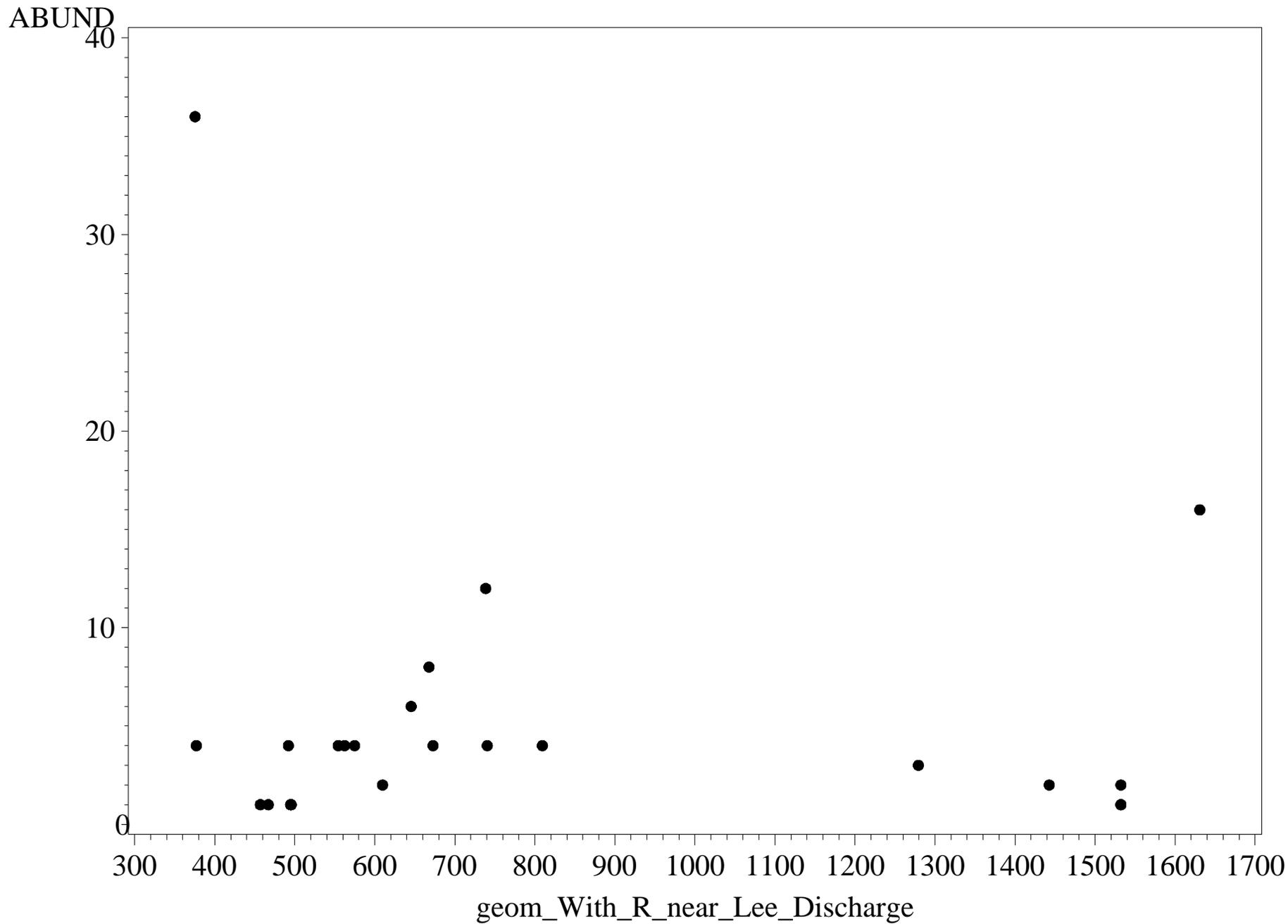
Individual Benthic Species vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)
name=CRICOTOPUS/ORTHOCLAD SPP.



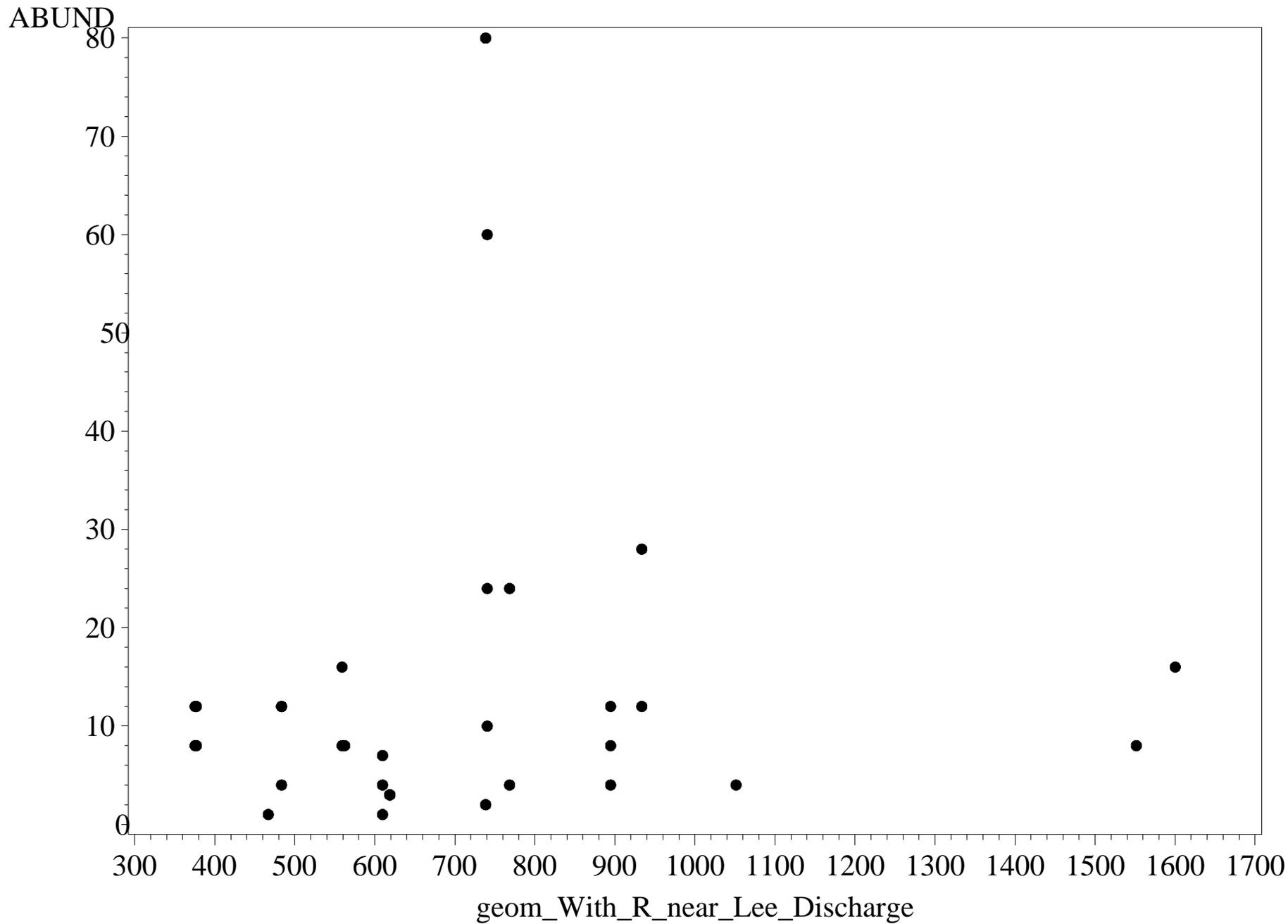
Individual Benthic Species vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)
name=CRYPTOTENDIPES SP.



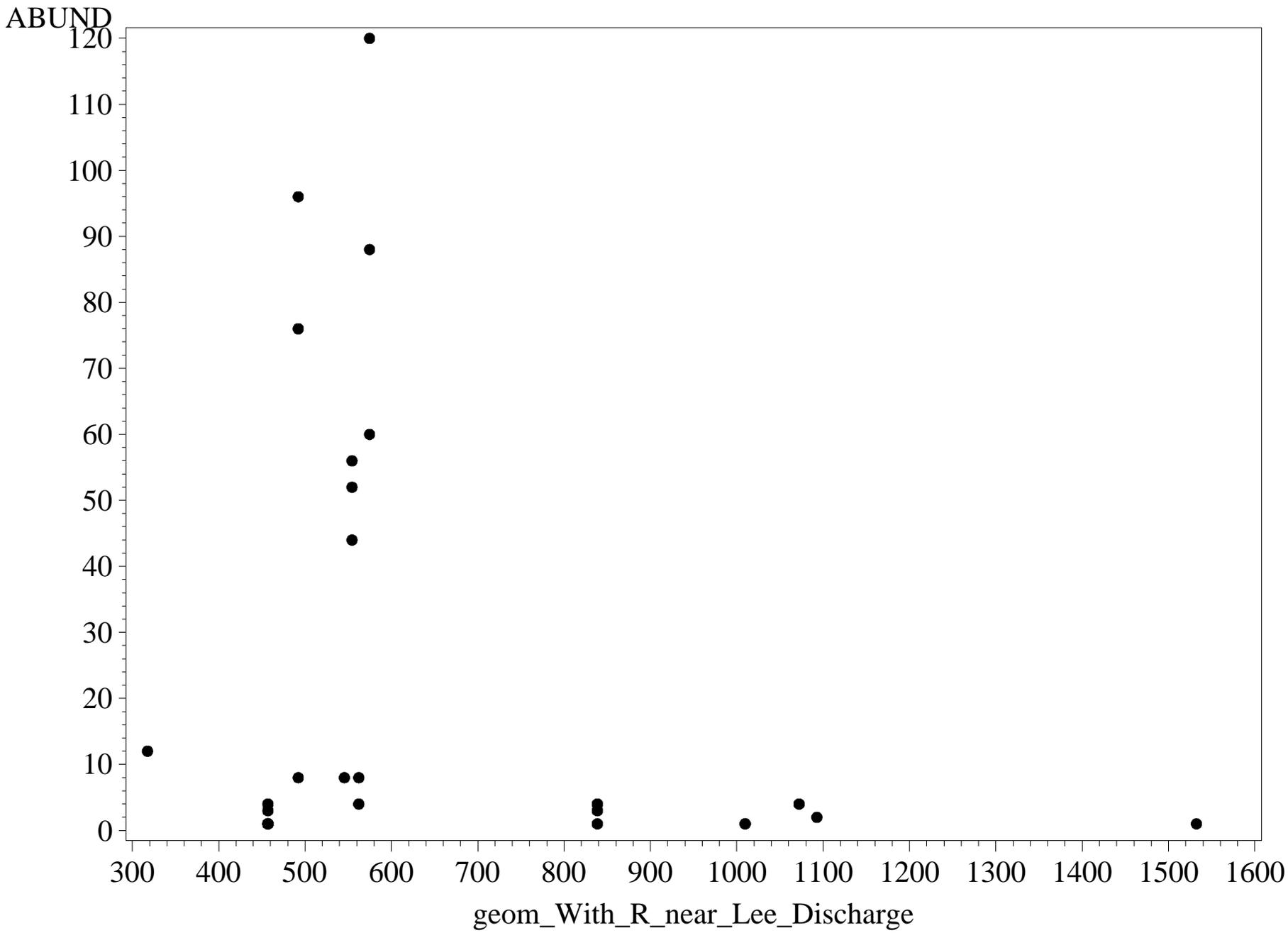
Individual Benthic Species vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)
name=DERO SP.



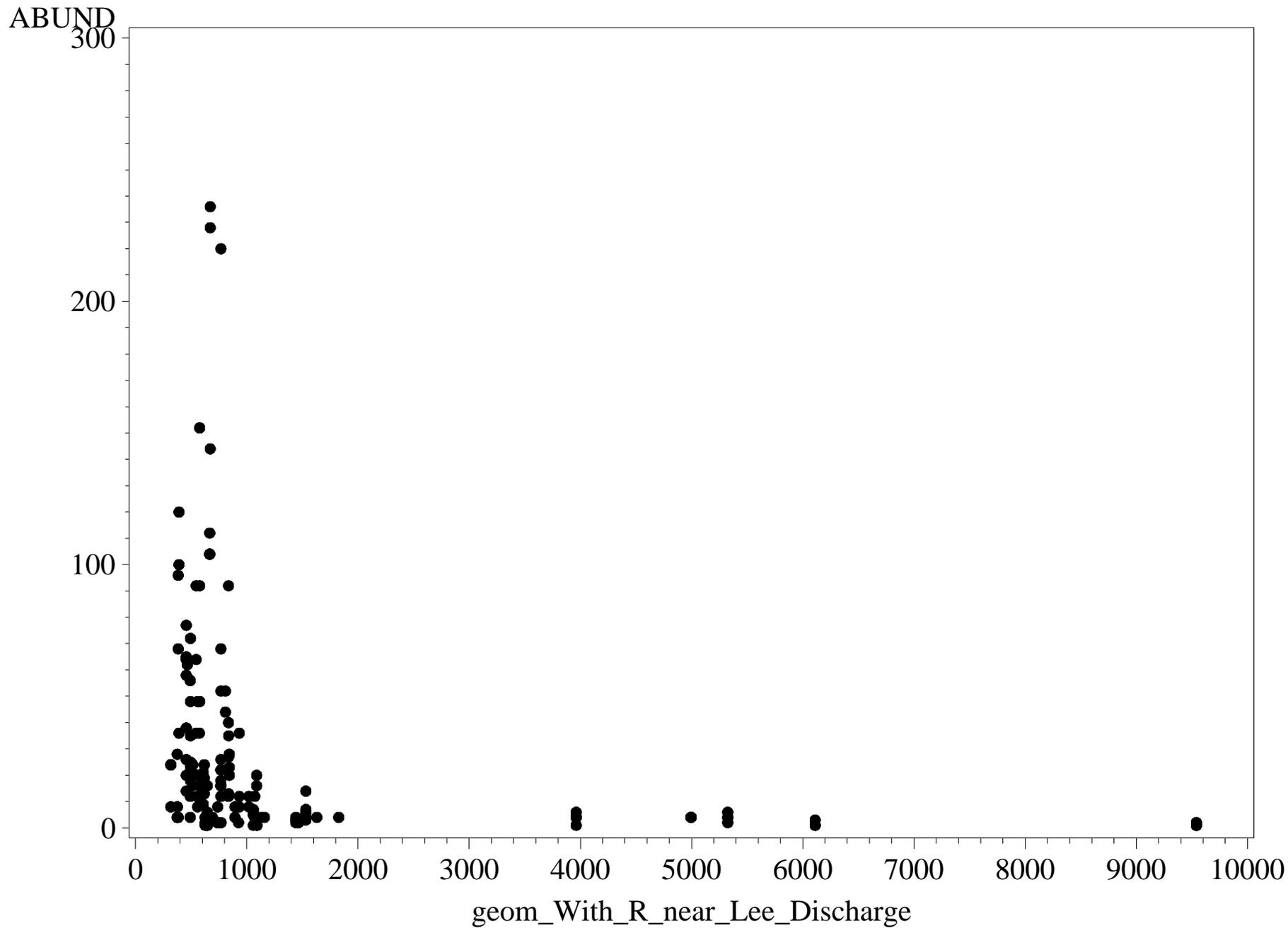
Individual Benthic Species vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)
name=DERO TRIFIDA



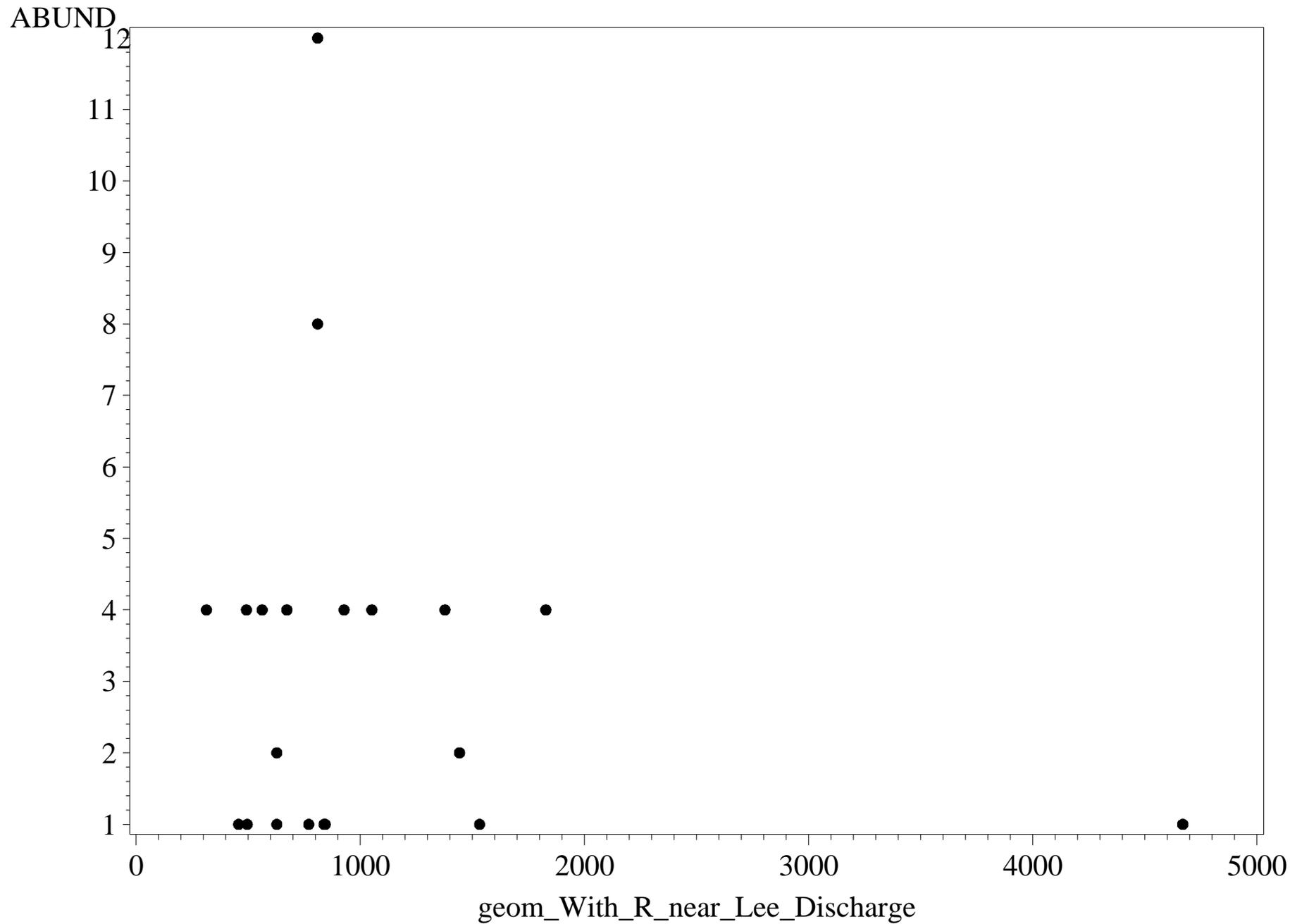
Individual Benthic Species vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)
name=DICROTENDIPES MODESTUS



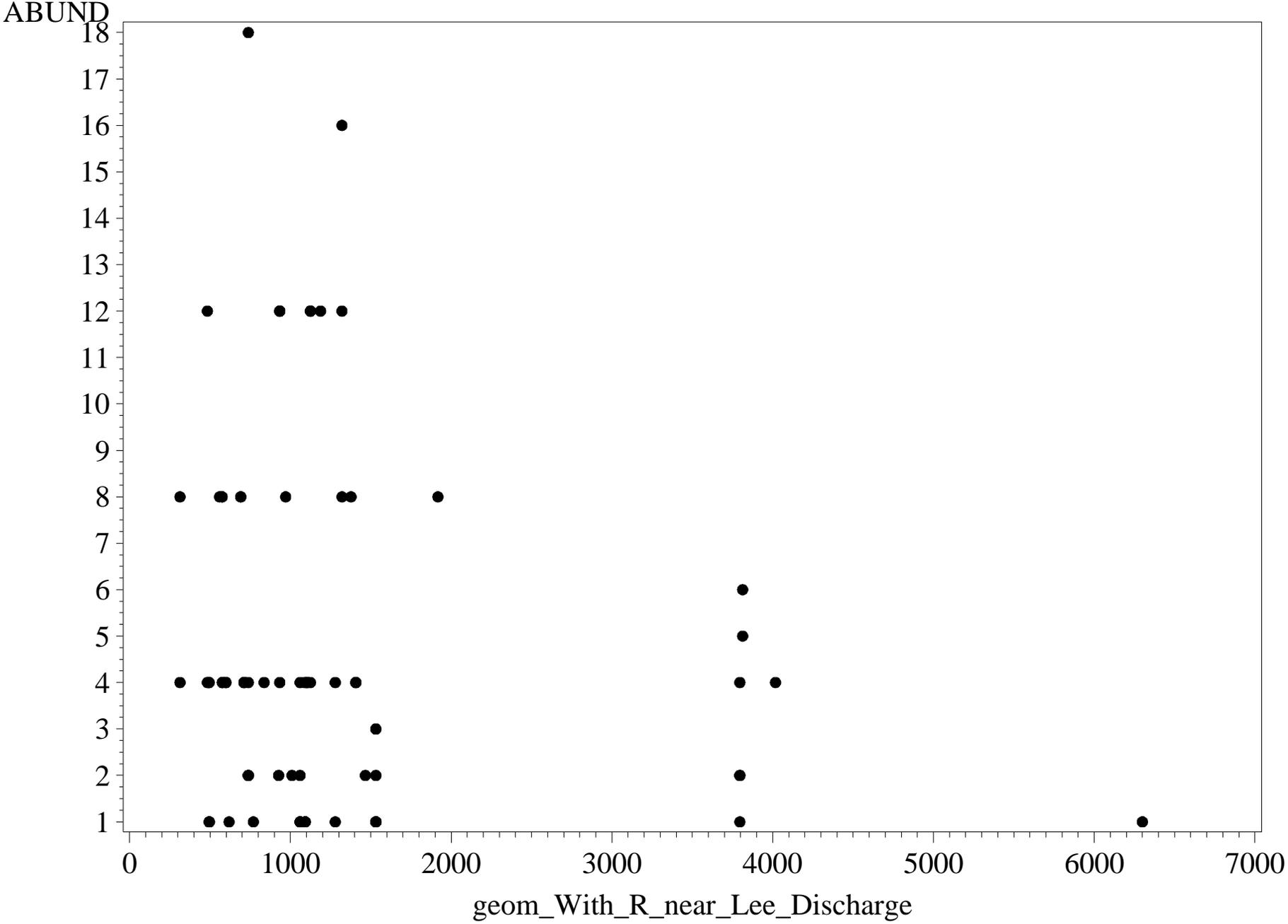
Individual Benthic Species vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)
name=DICROTENDIPES NEOMODESTUS



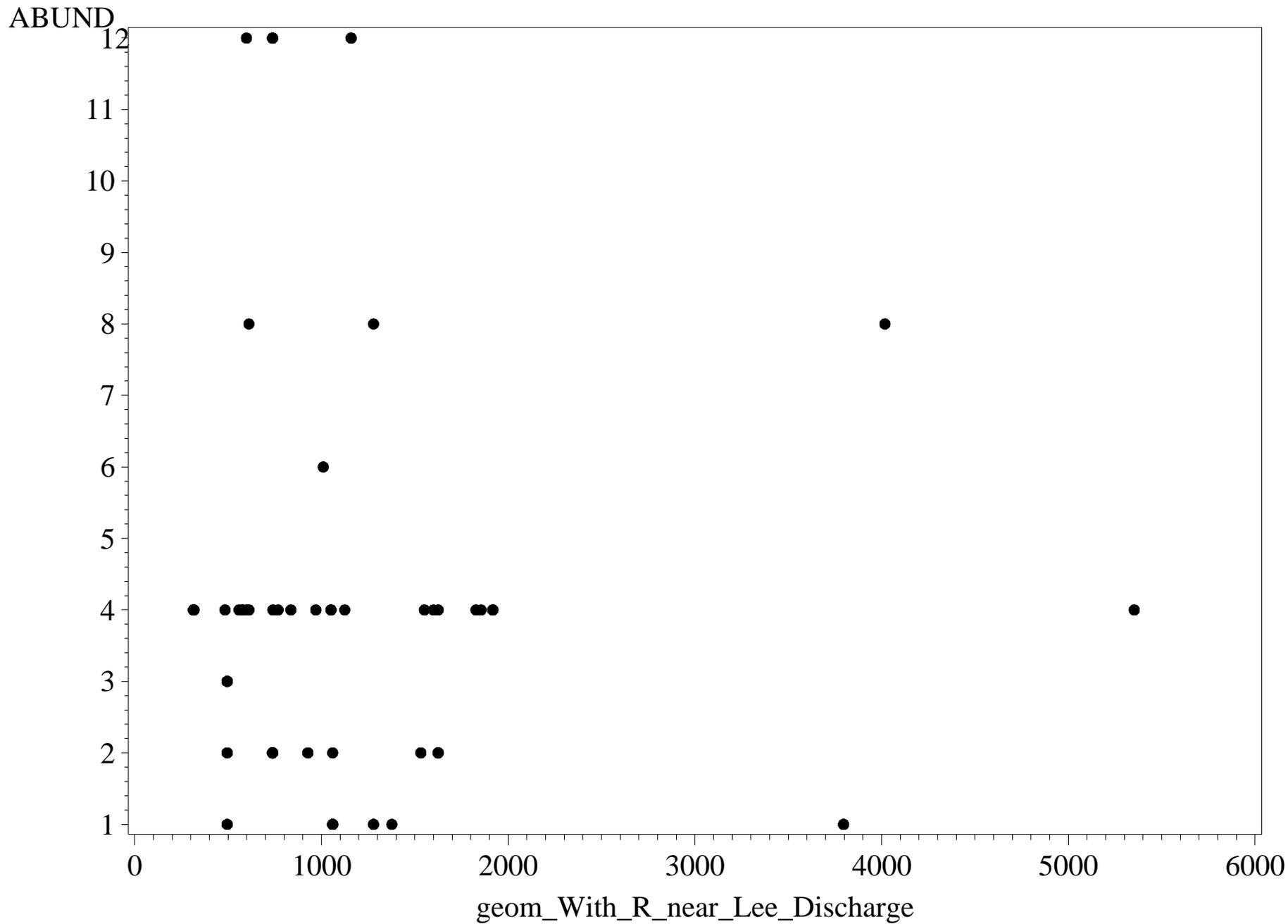
Individual Benthic Species vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)
name=DICROTENDIPES SP.



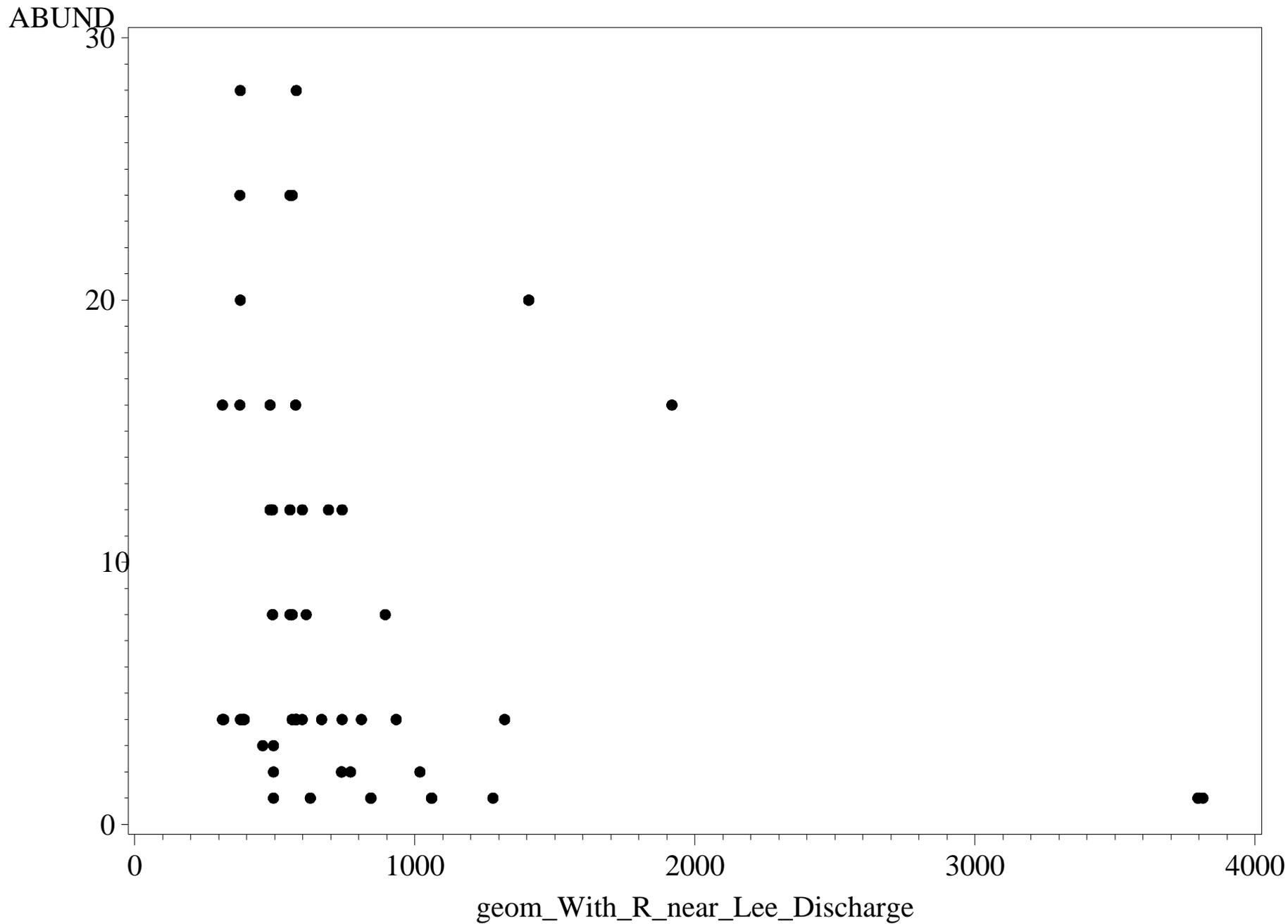
Individual Benthic Species vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)
name=DINEUTUS SP.



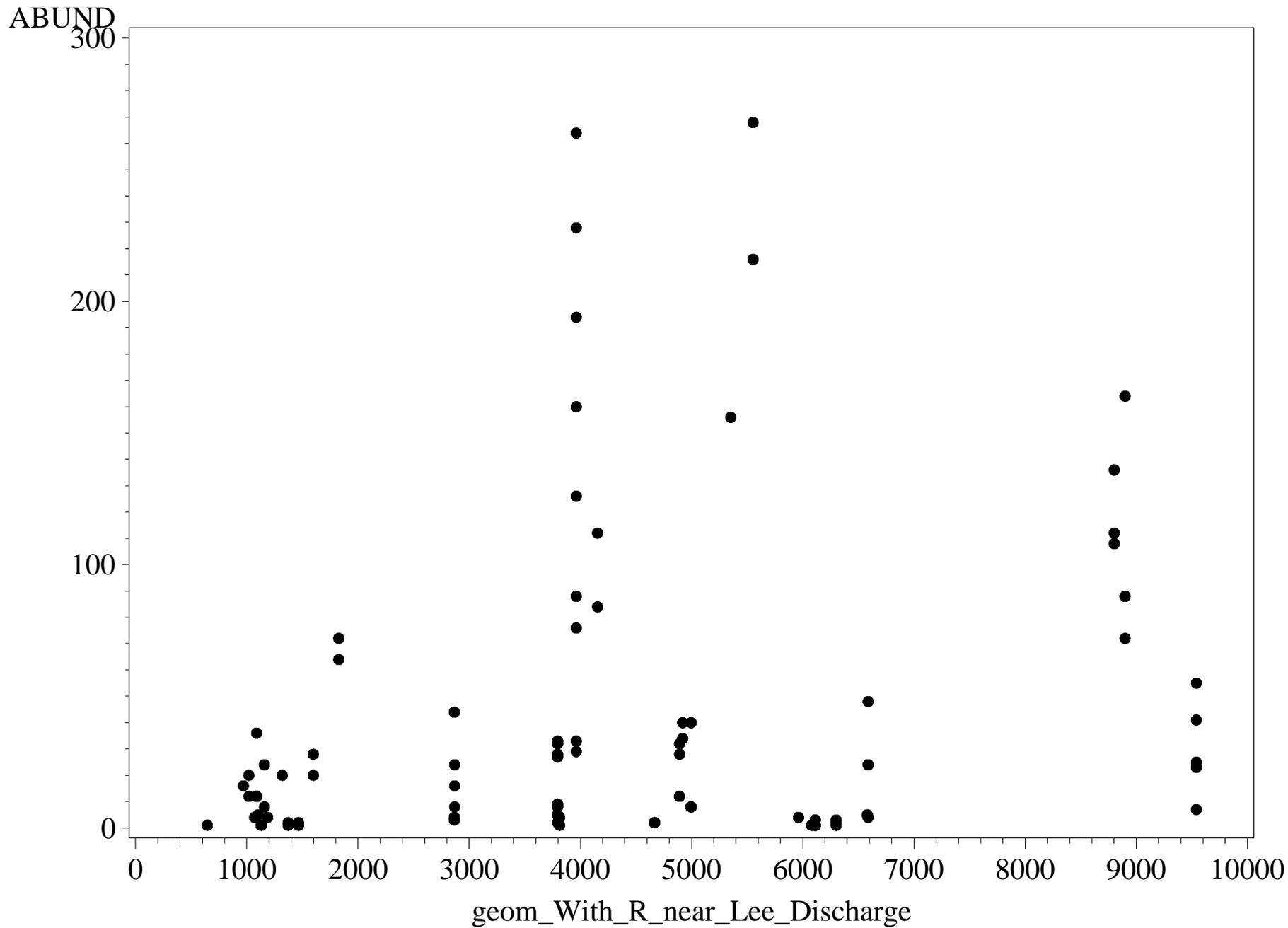
Individual Benthic Species vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)
name=DUBIRAPHIA VITTATA



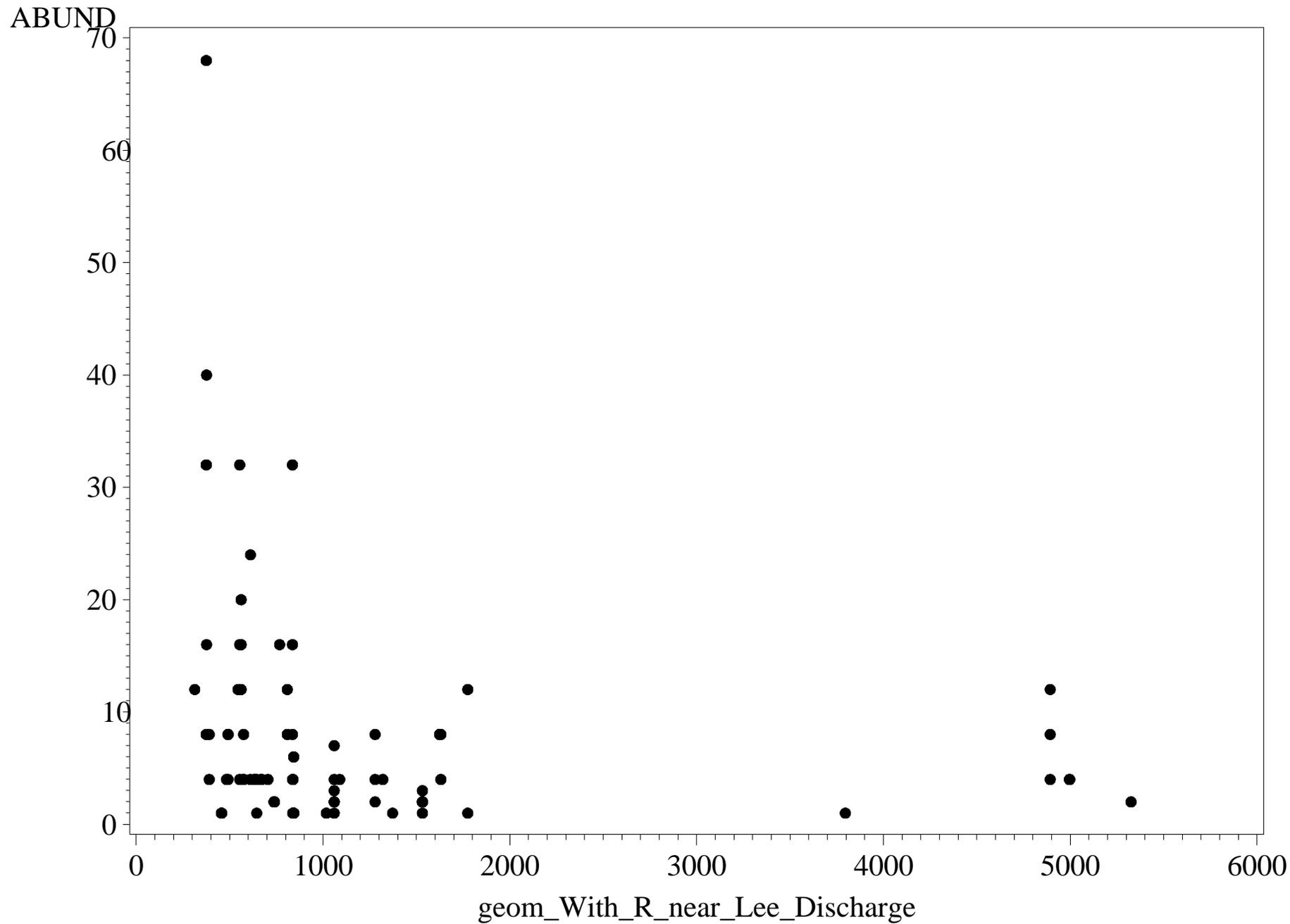
Individual Benthic Species vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)
name=DUGESIA SP.



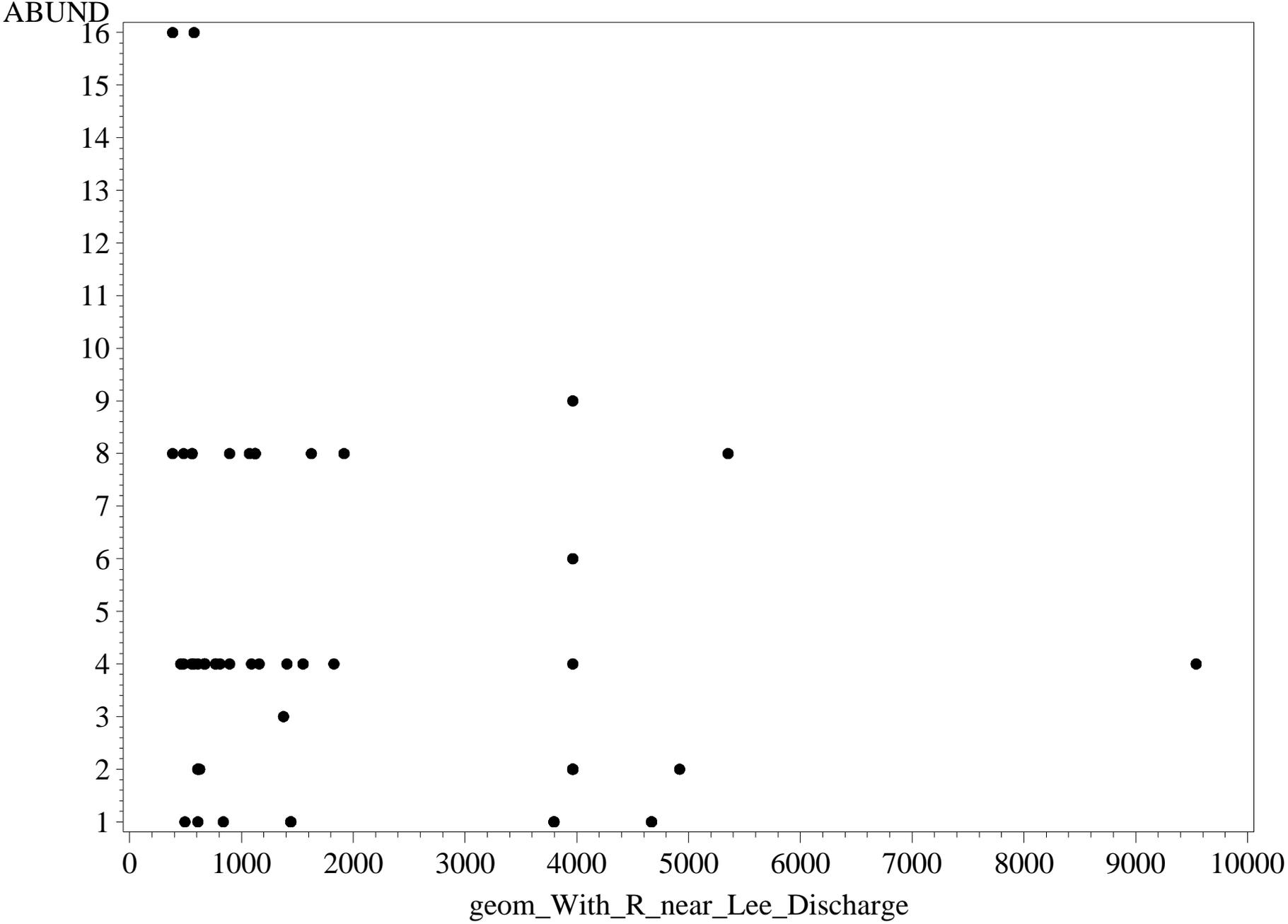
Individual Benthic Species vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)
name=EUKIEFFERIELLA DISCOLORIPES



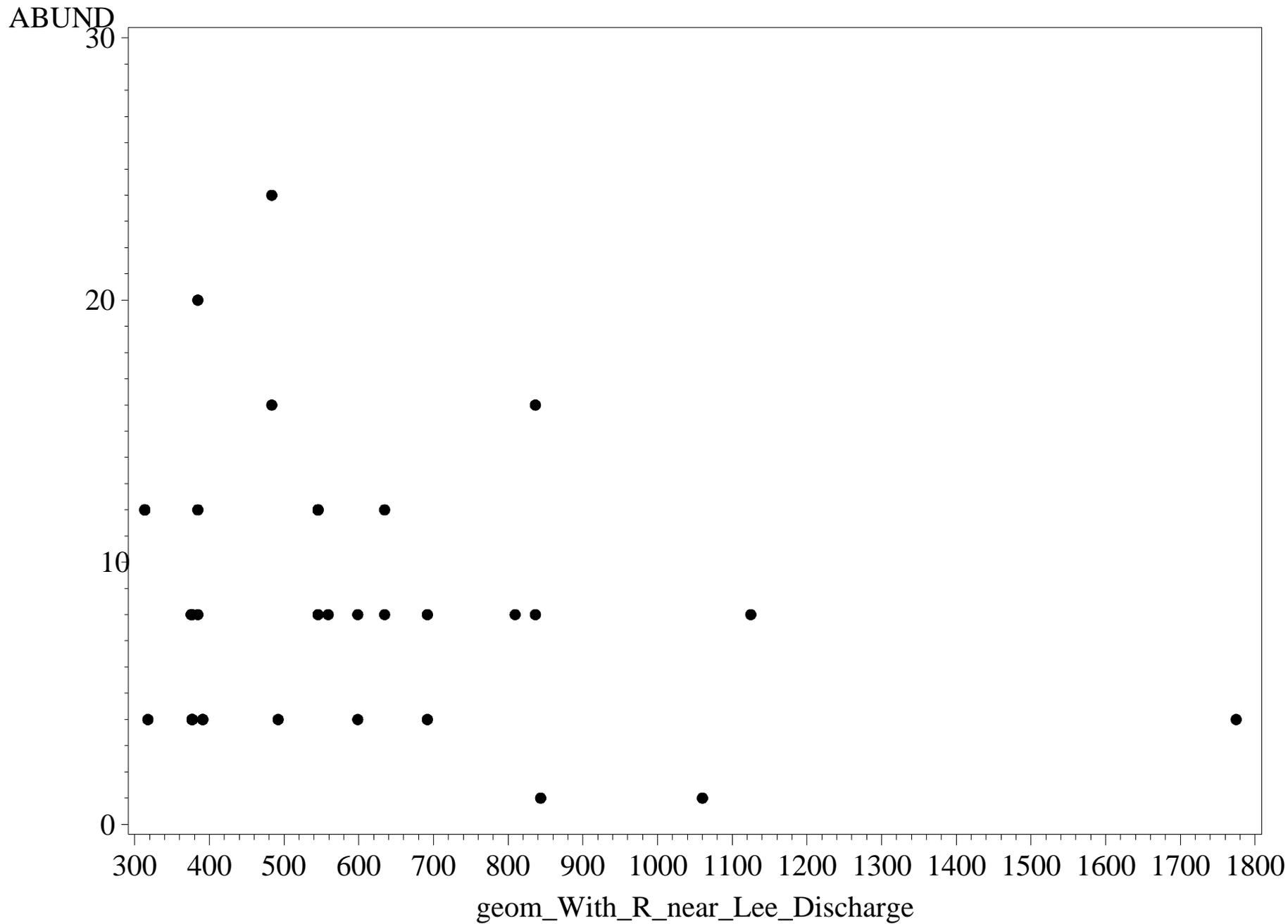
Individual Benthic Species vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)
name=HYALELLA AZTECA



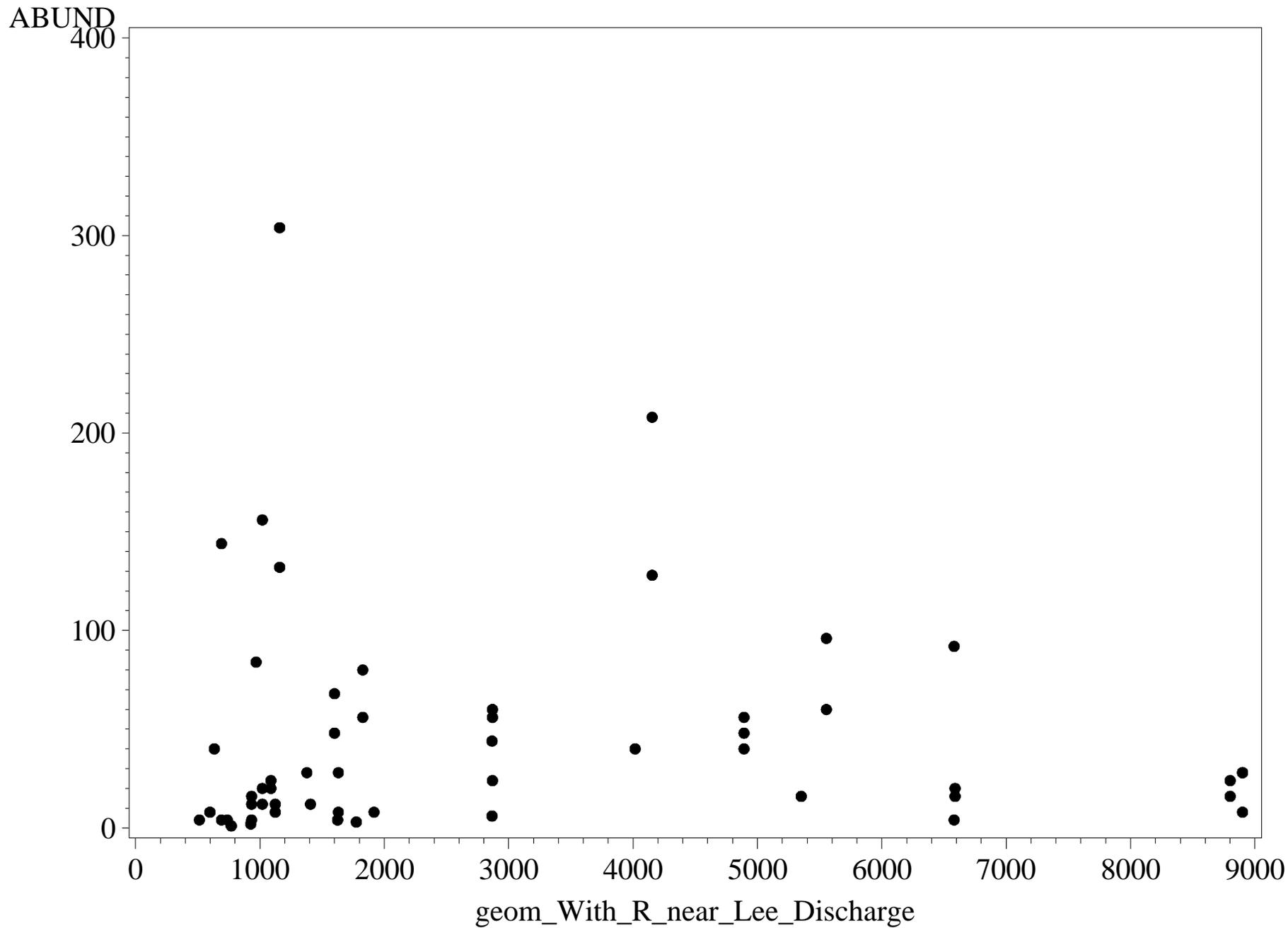
Individual Benthic Species vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)
name=HYDRA SP.



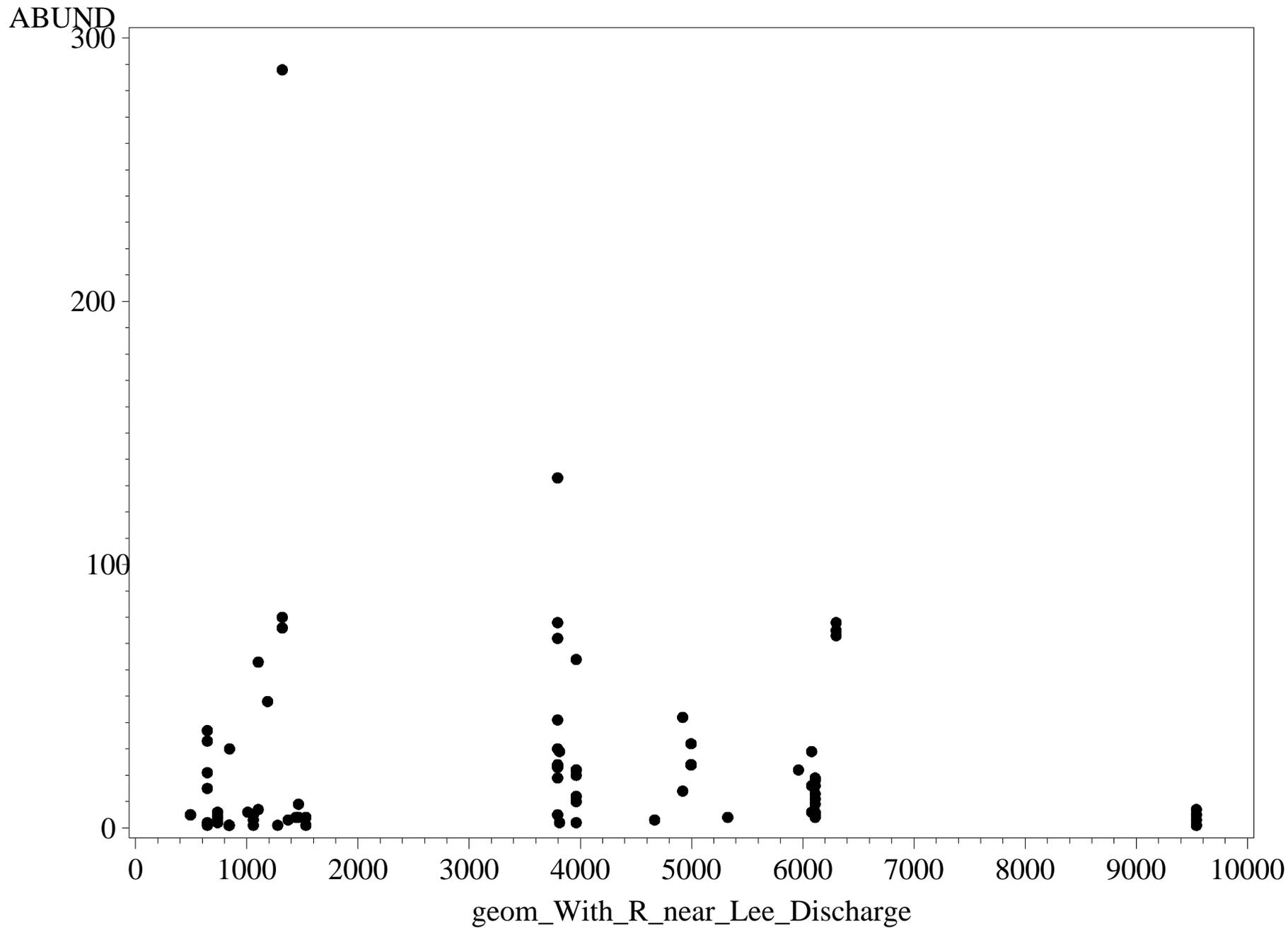
Individual Benthic Species vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)
name=HYDRODROMA SP.



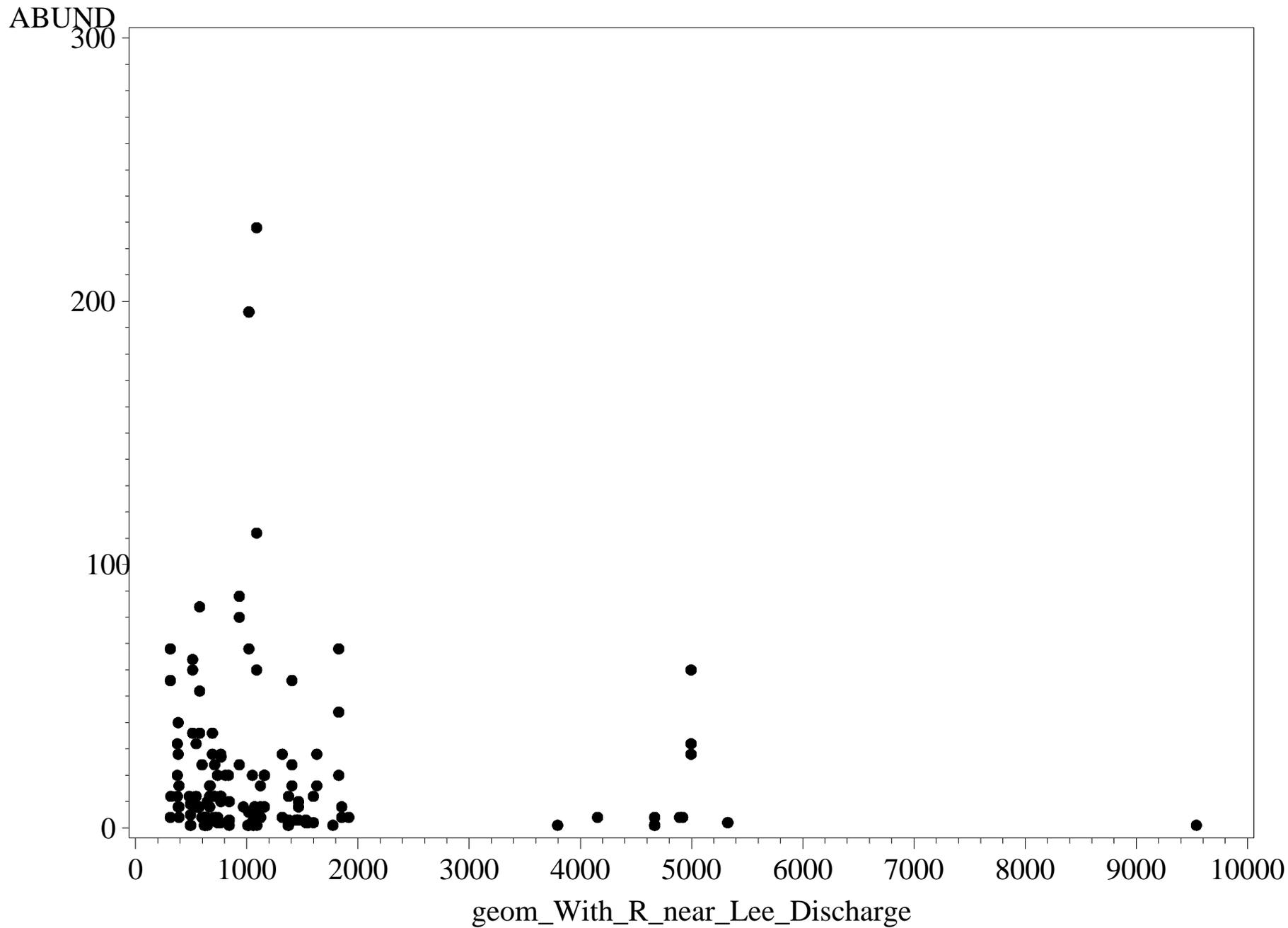
Individual Benthic Species vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)
name=HYDROPSYCHE ROSSI



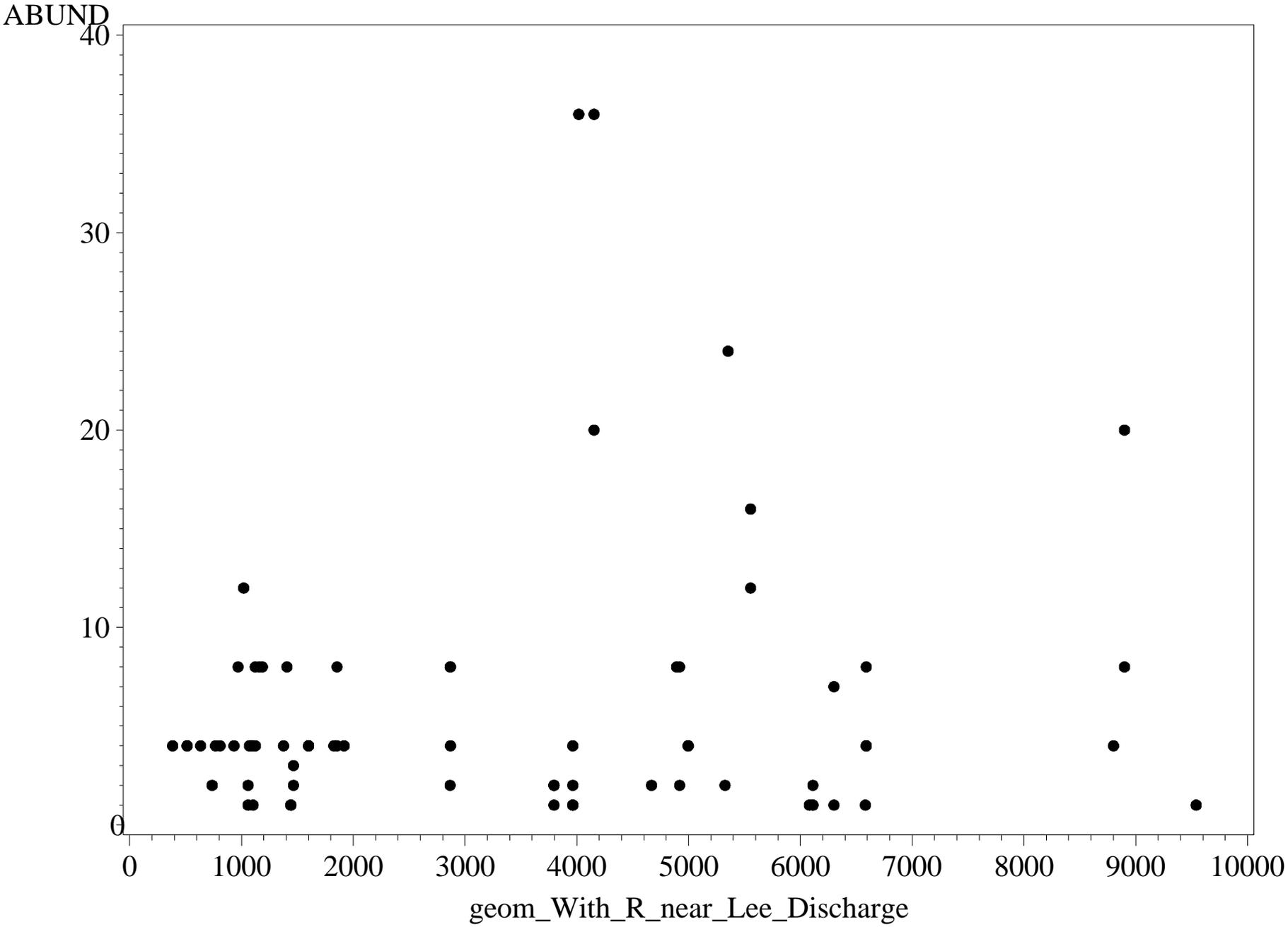
Individual Benthic Species vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)
name=HYDROPSYCHE SIMULANS



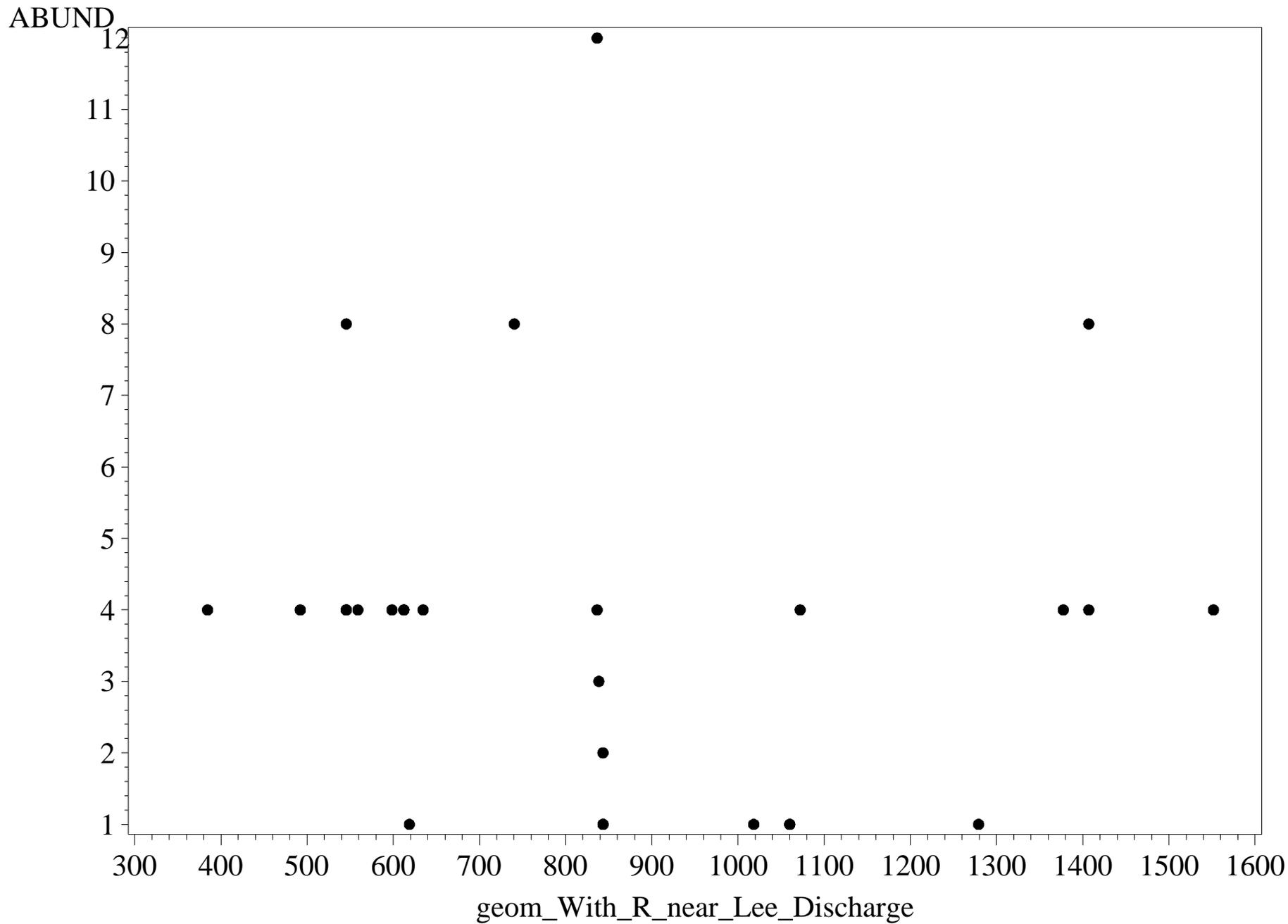
Individual Benthic Species vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)
name=HYDROPTILA SP.



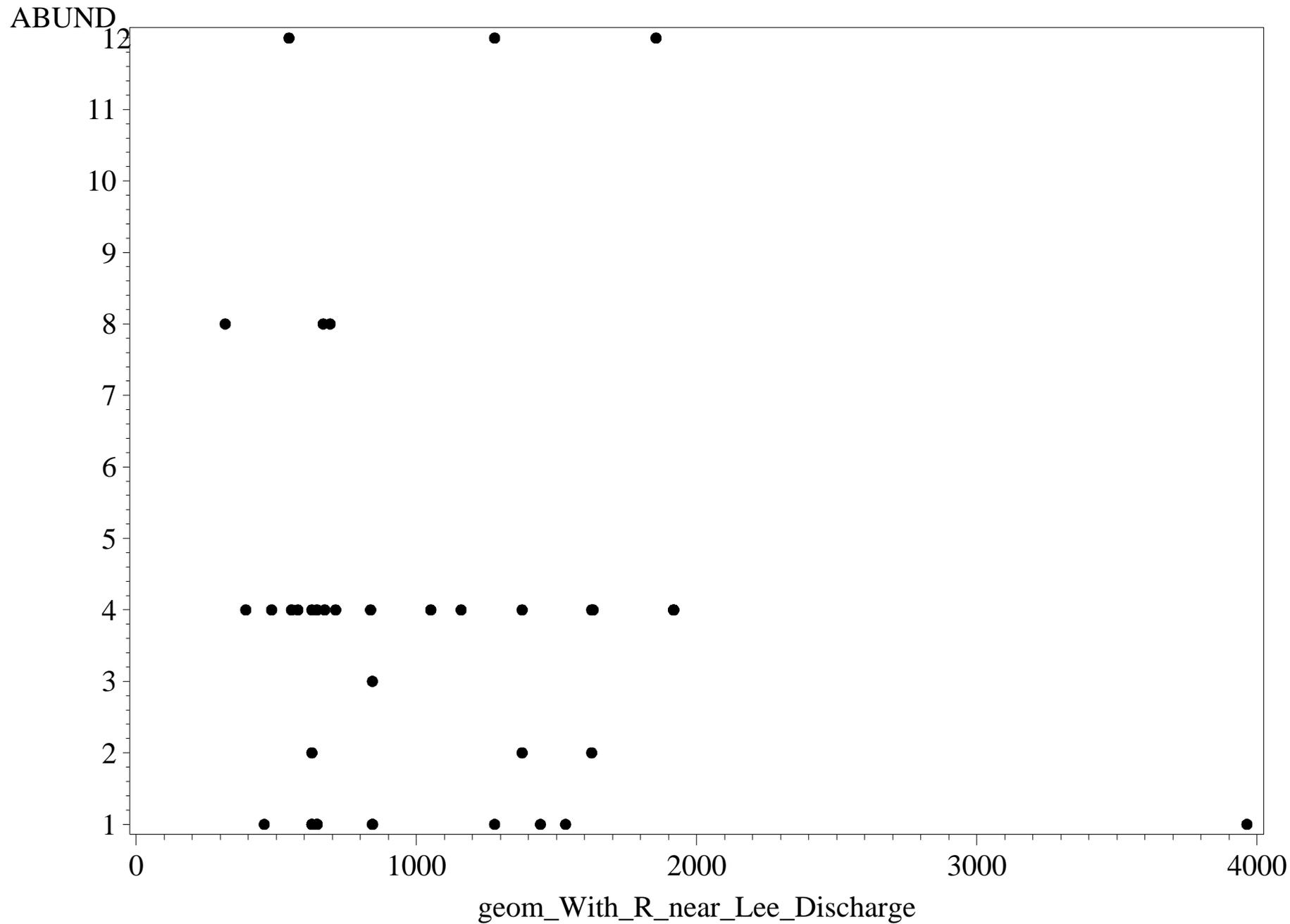
Individual Benthic Species vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)
name=ISONYCHIA SP.



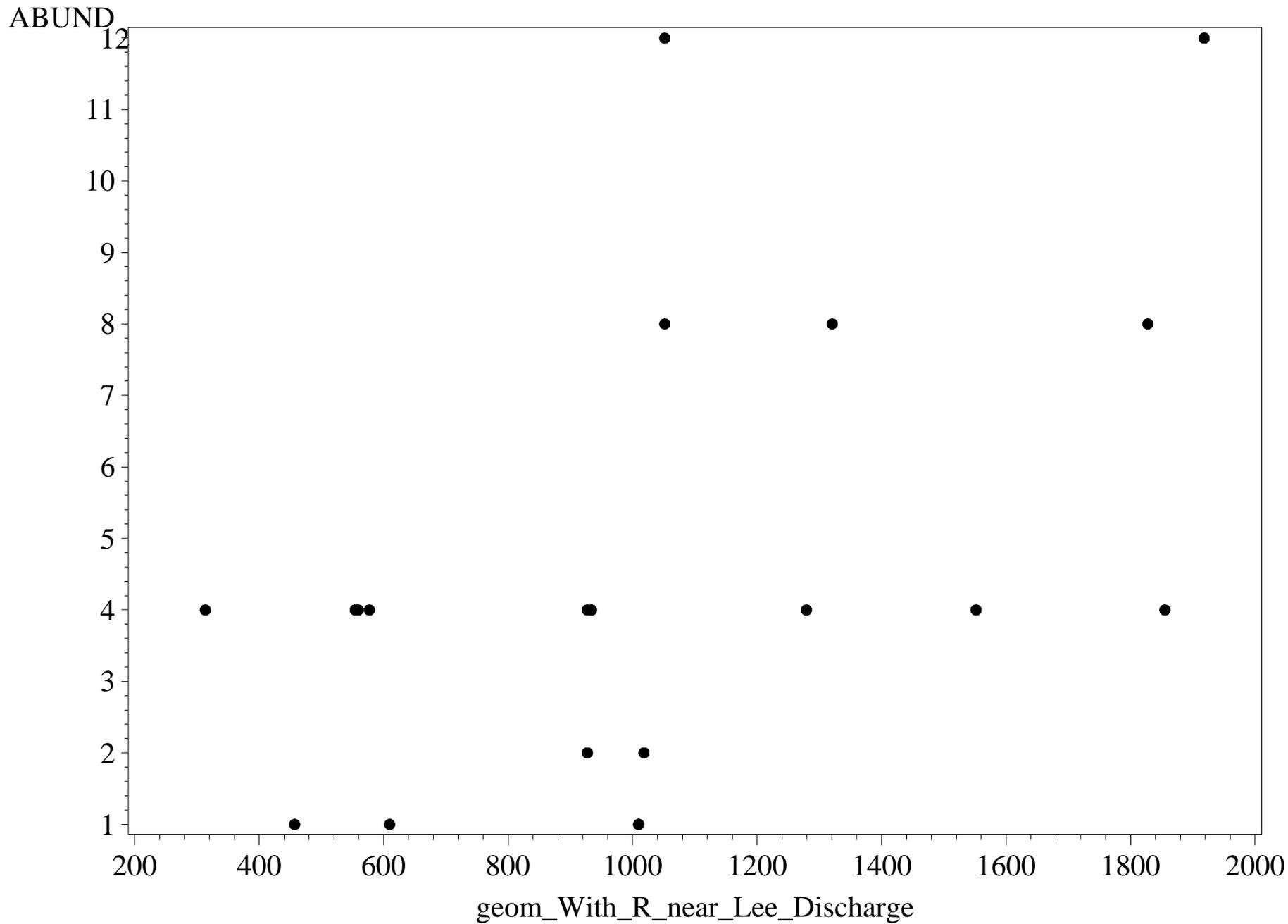
Individual Benthic Species vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)
name=ISOTOMURUS SP.



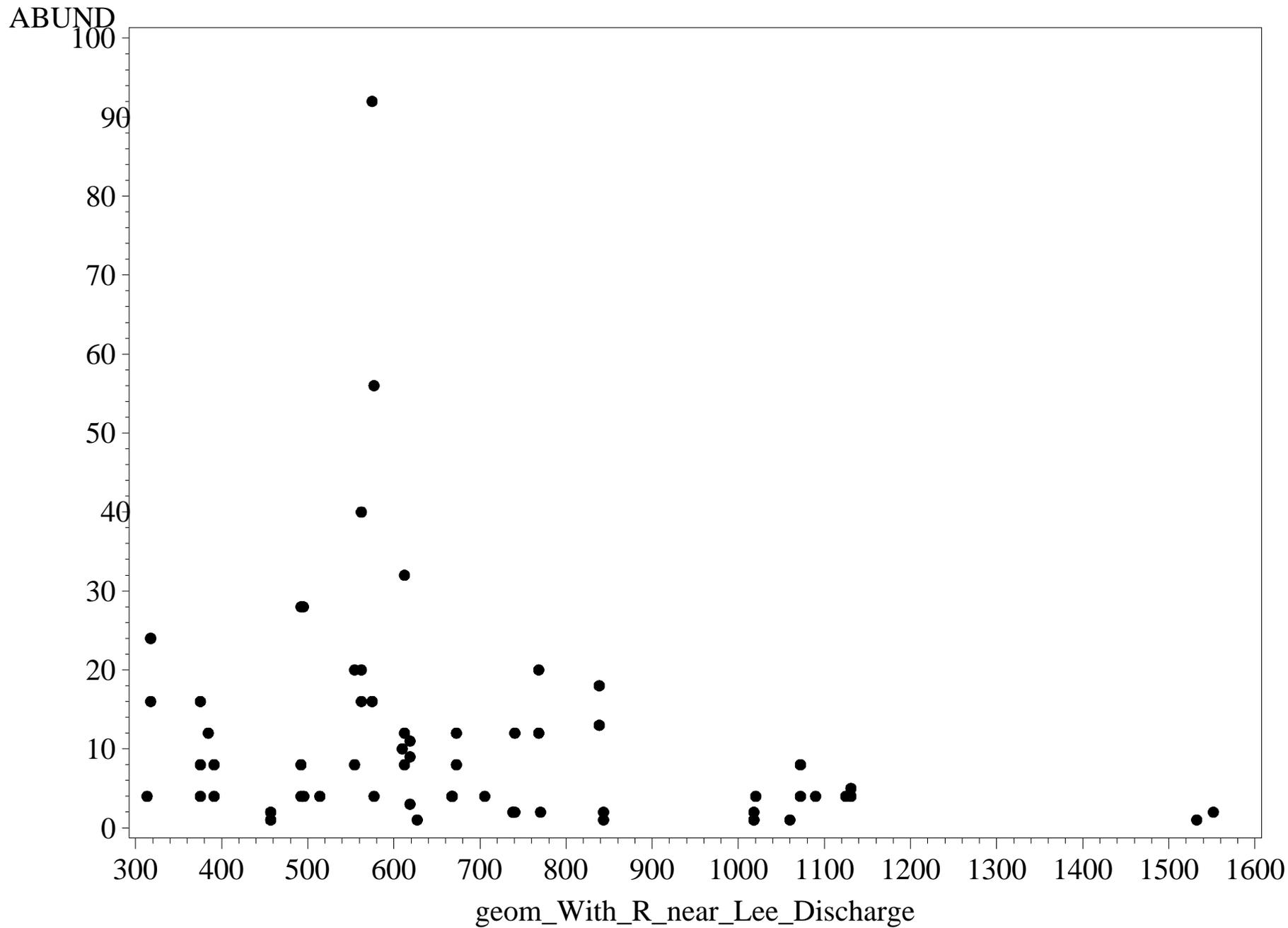
Individual Benthic Species vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)
name=LABRUNDINIA PILOSELLA



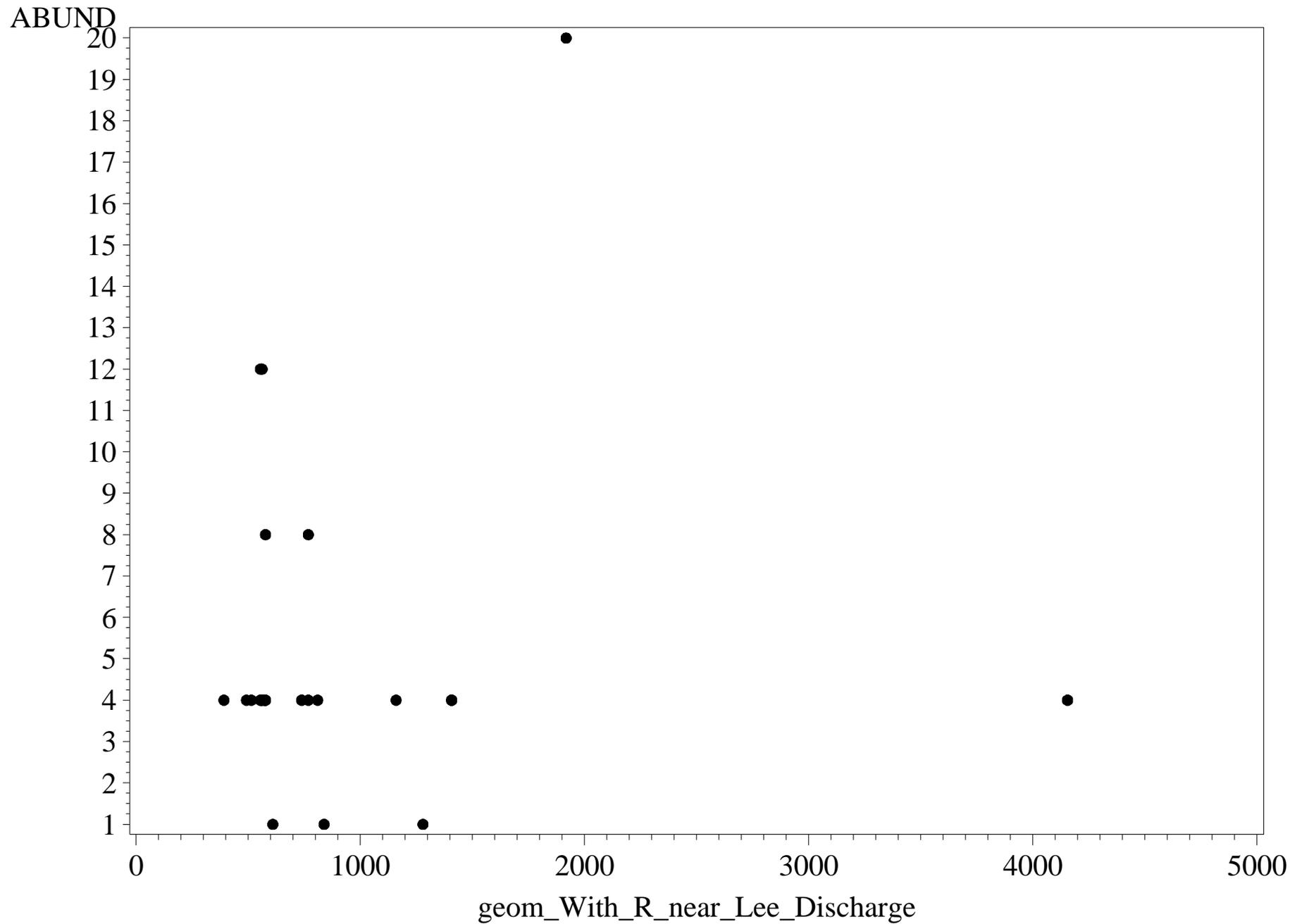
Individual Benthic Species vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)
name=LEBERTIA SP.



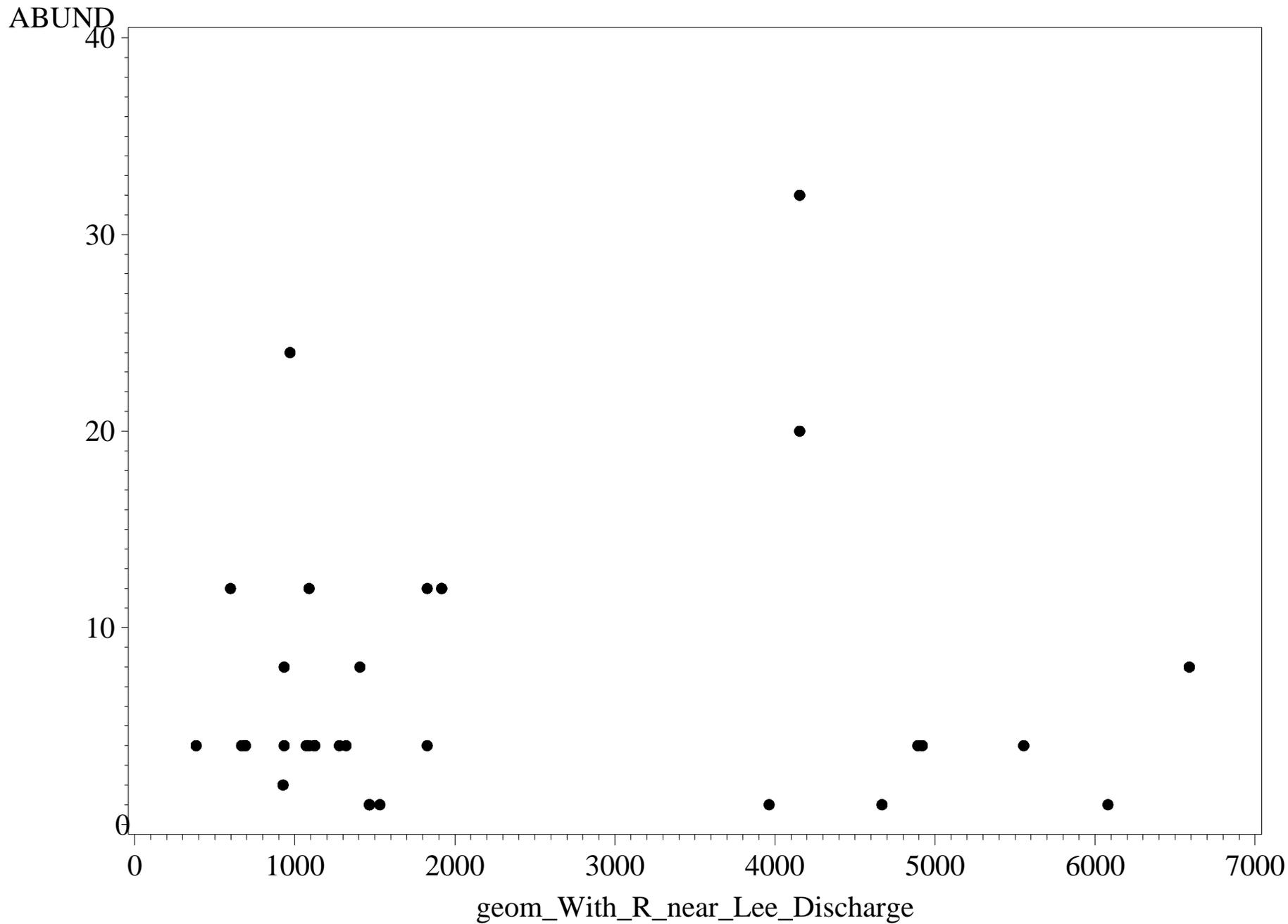
Individual Benthic Species vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)
name=MENETUS DILATATUS



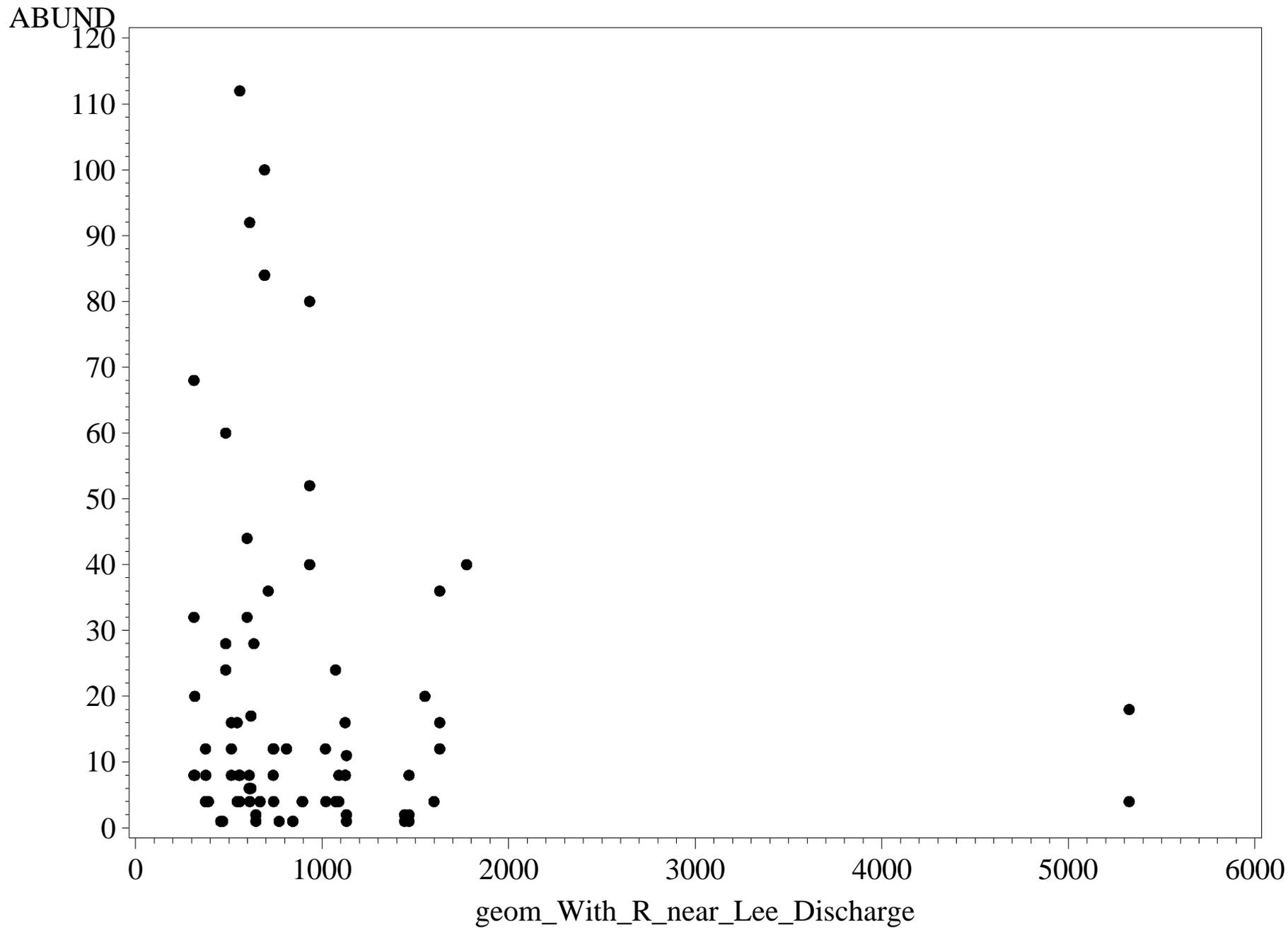
Individual Benthic Species vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)
name=MIDEOPSIS SP.



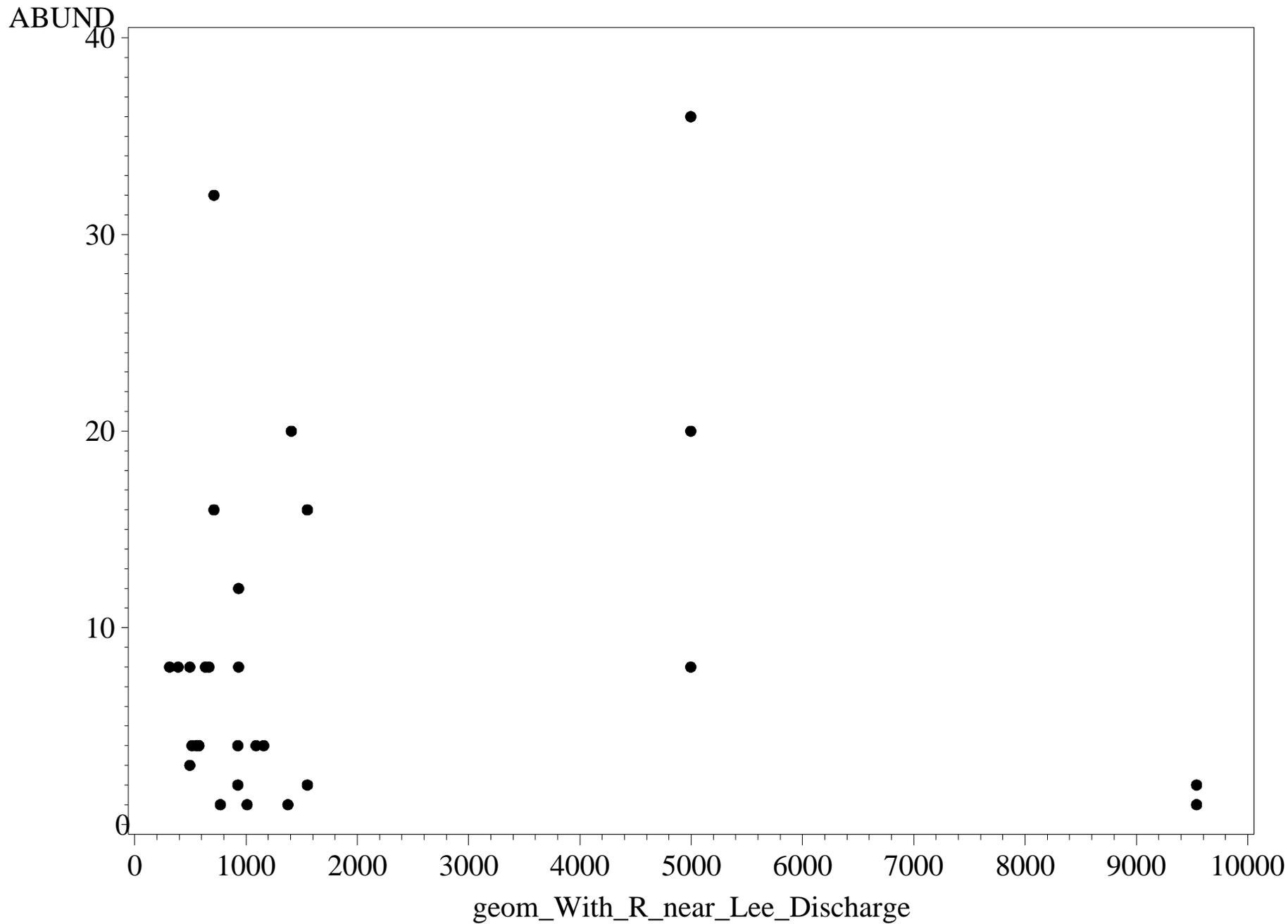
Individual Benthic Species vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)
name=NAIS BEHNINGI



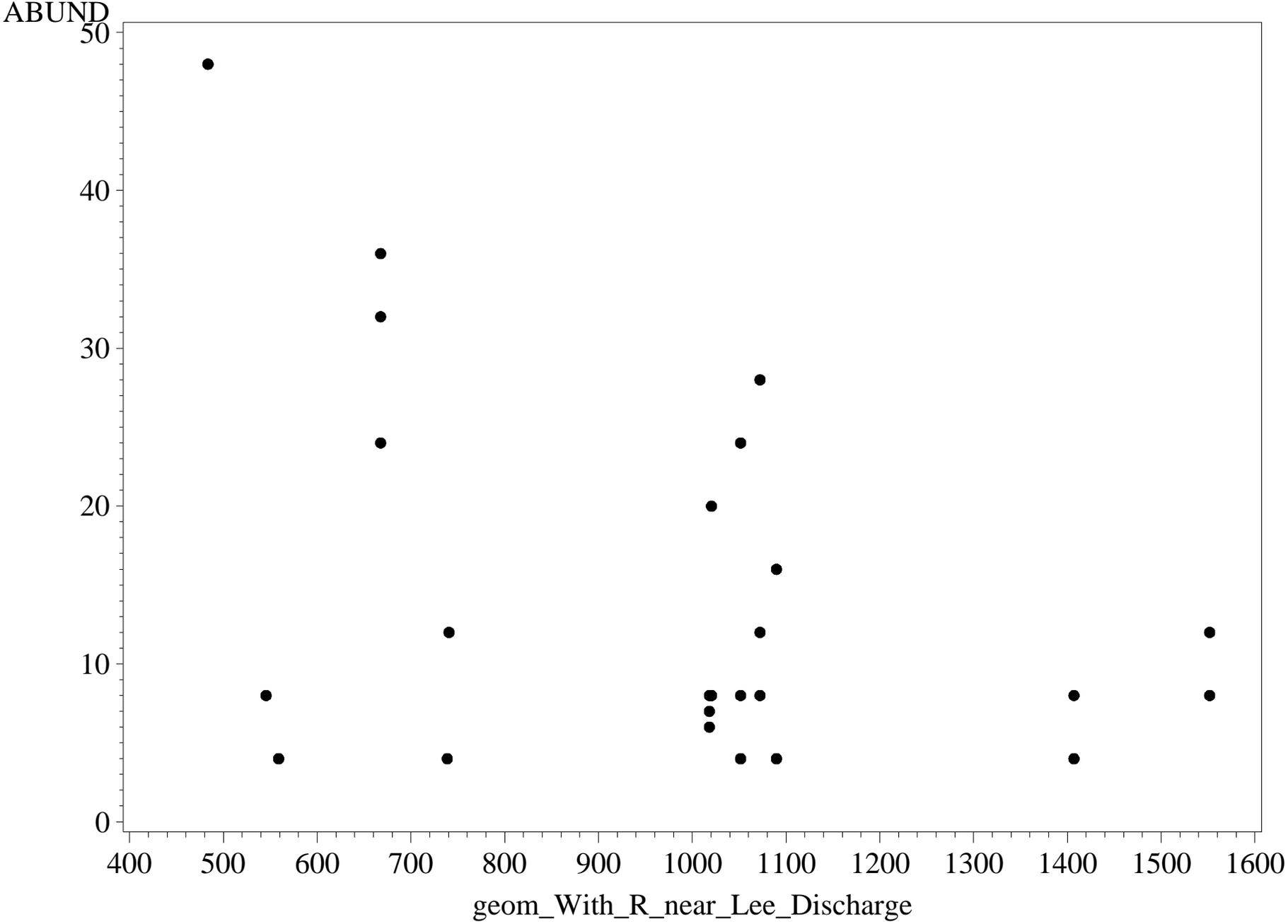
Individual Benthic Species vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)
name=NAIS ELINGUIS



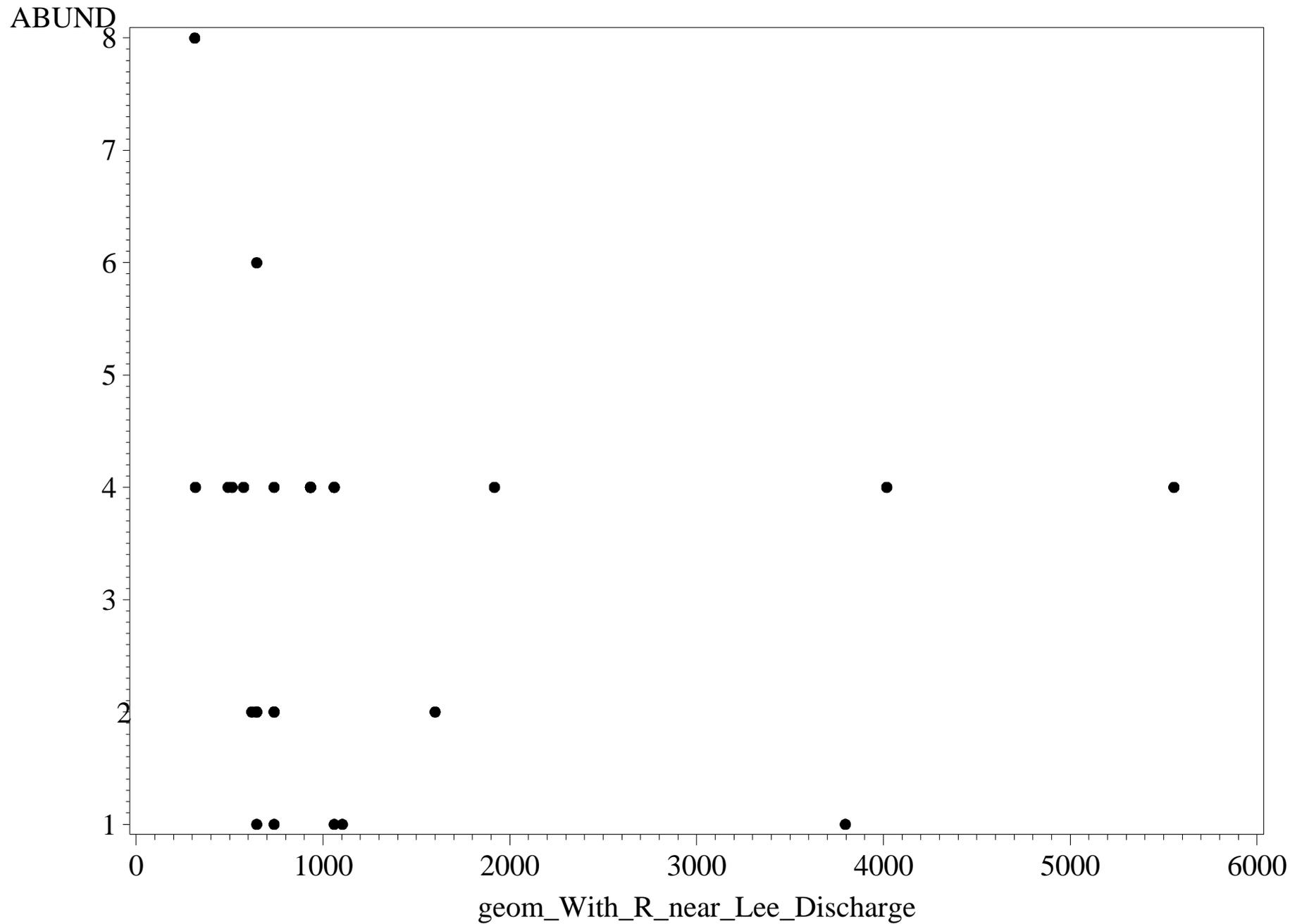
Individual Benthic Species vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)
name=NAIS VARIABILIS



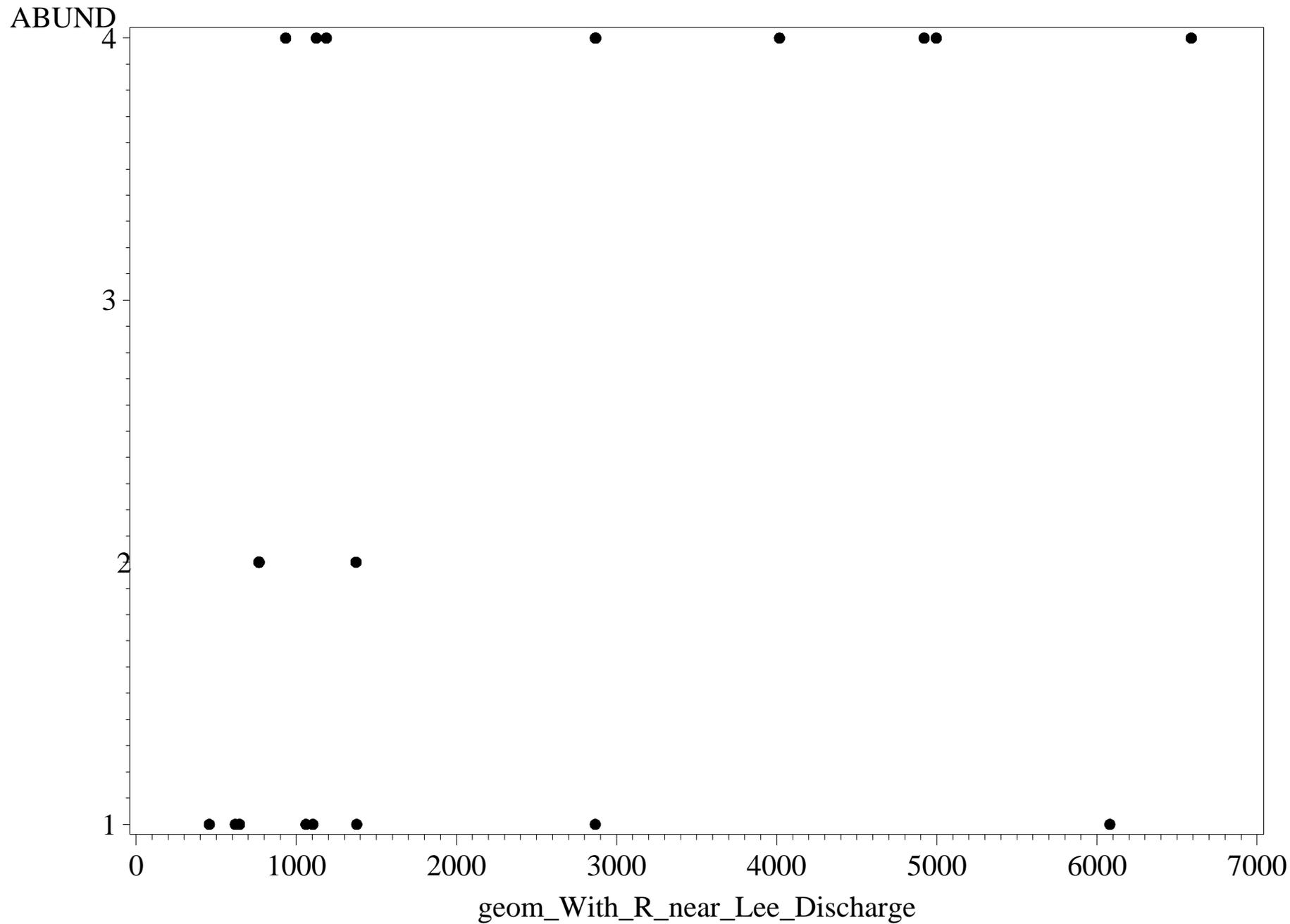
Individual Benthic Species vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)
name=NANOCLADIUS RECTINERVIS



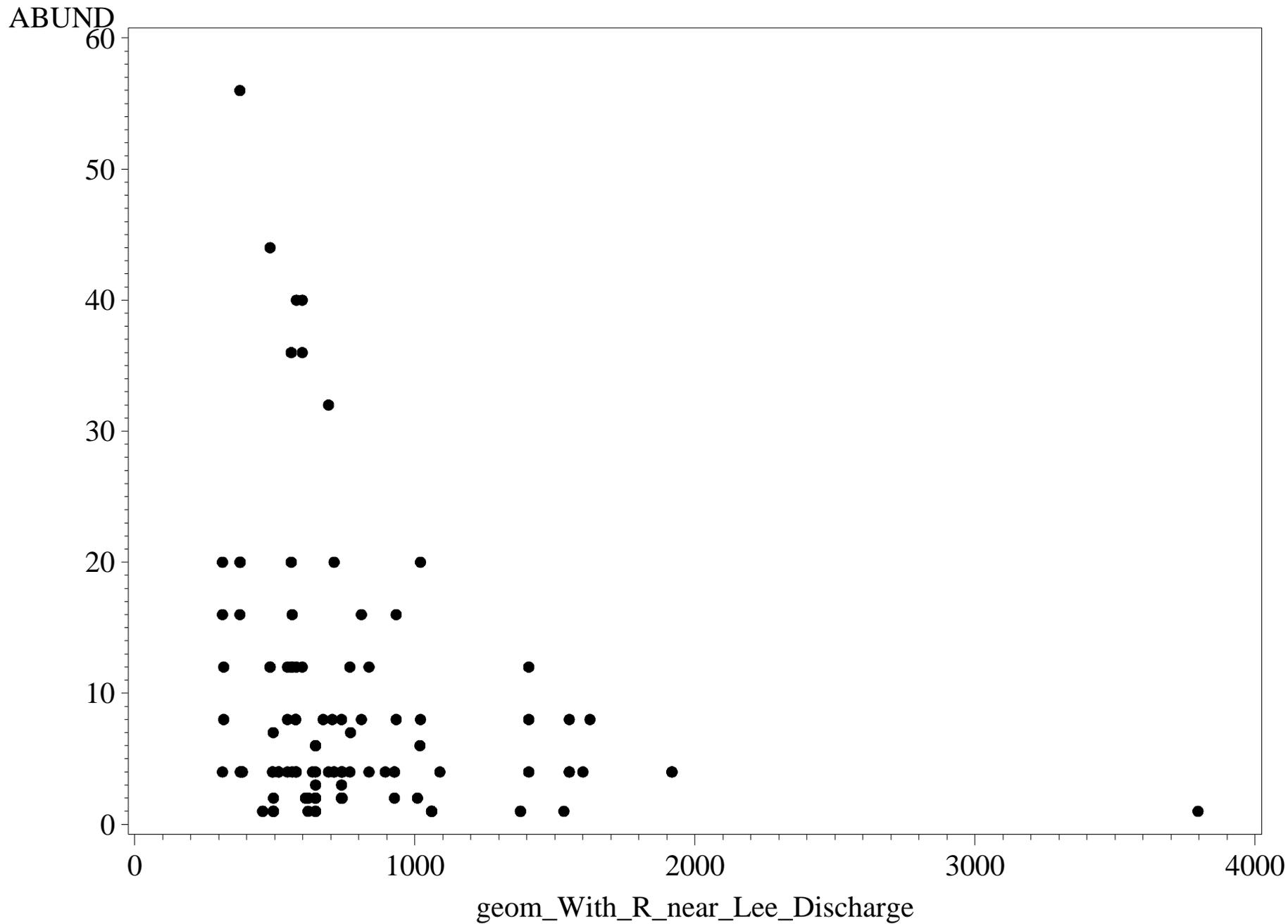
Individual Benthic Species vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)
name=NECTOPSYCHE EXQUISITA



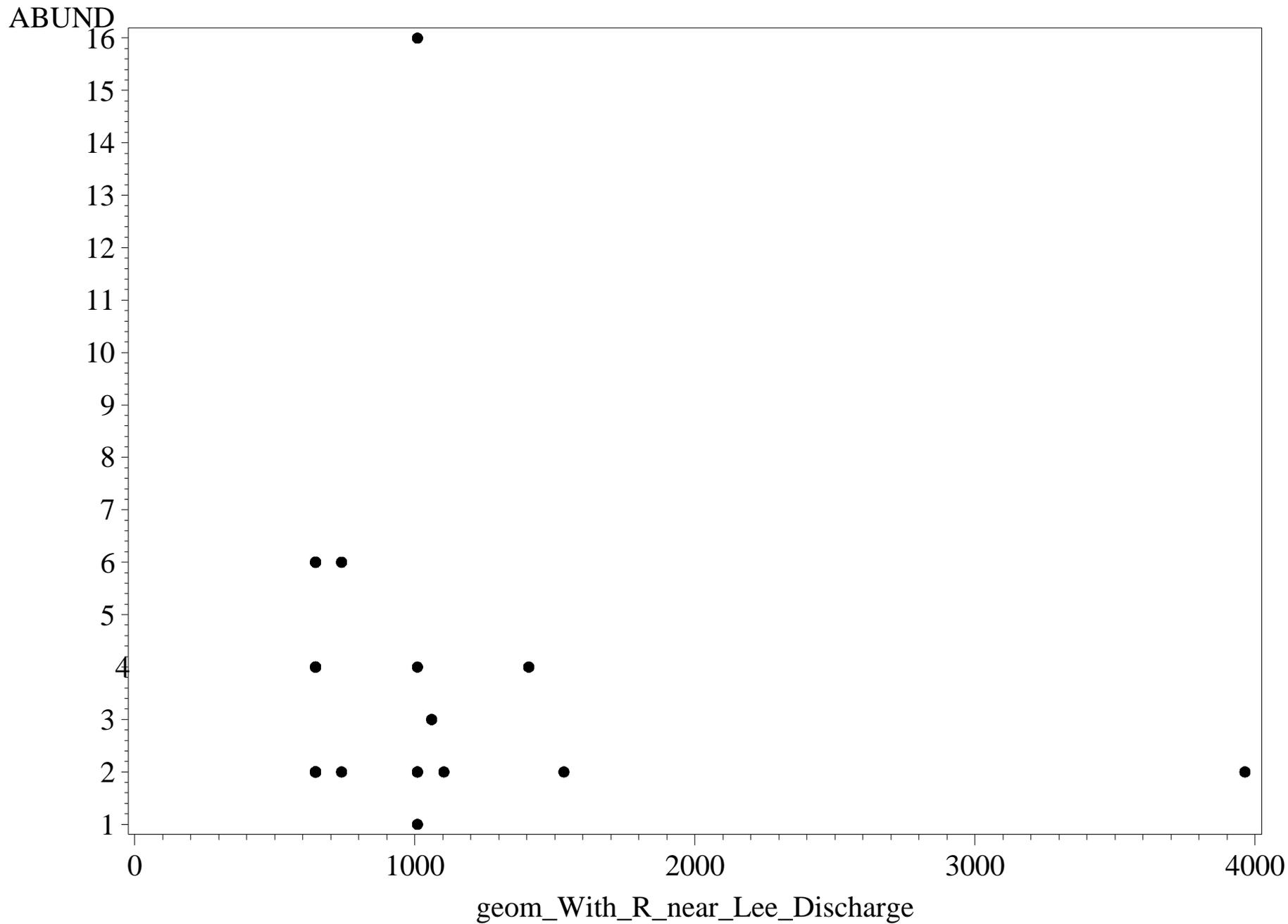
Individual Benthic Species vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)
name=NEOPERLA SP.



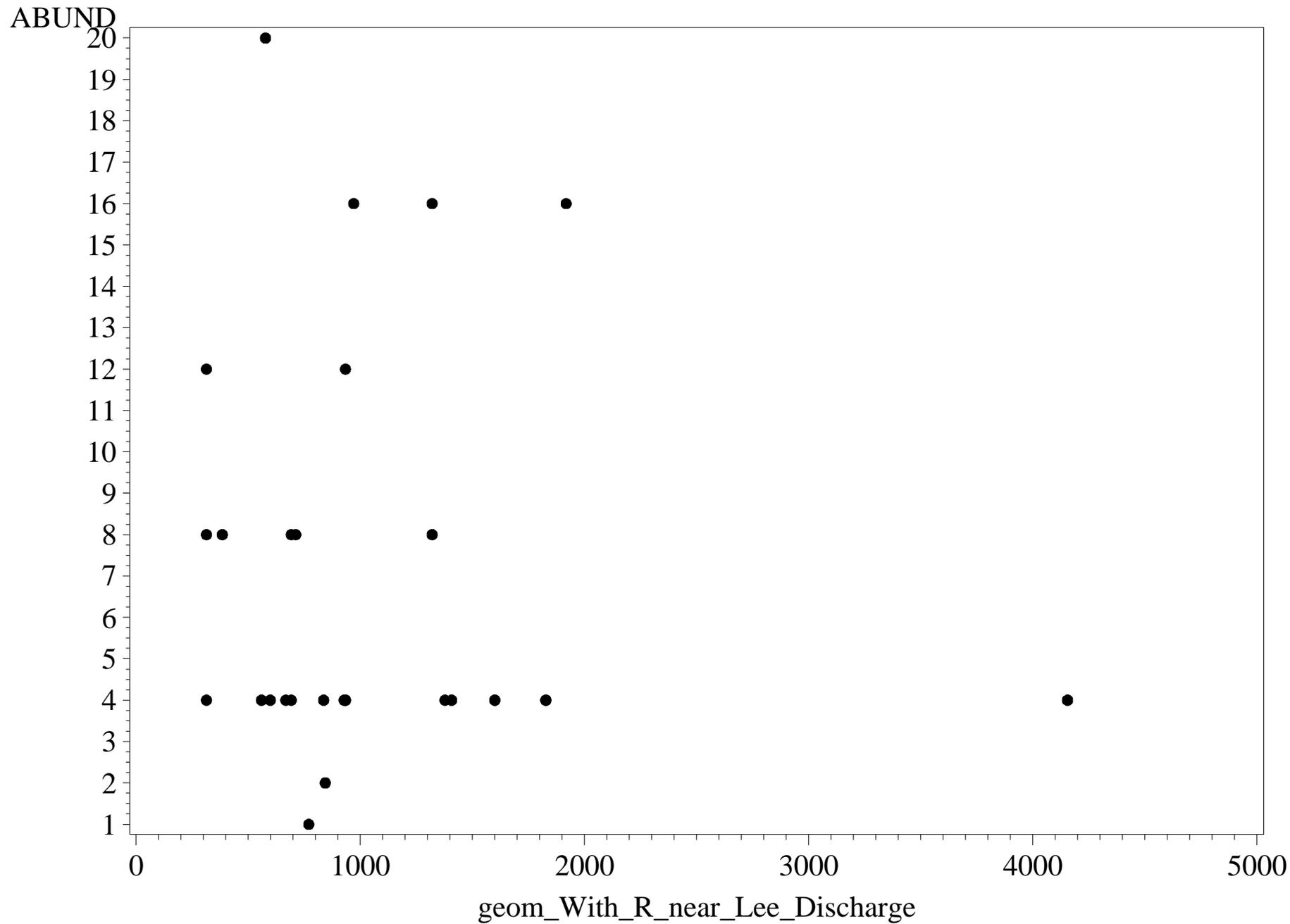
Individual Benthic Species vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)
name=NEOTRICHIA SP.



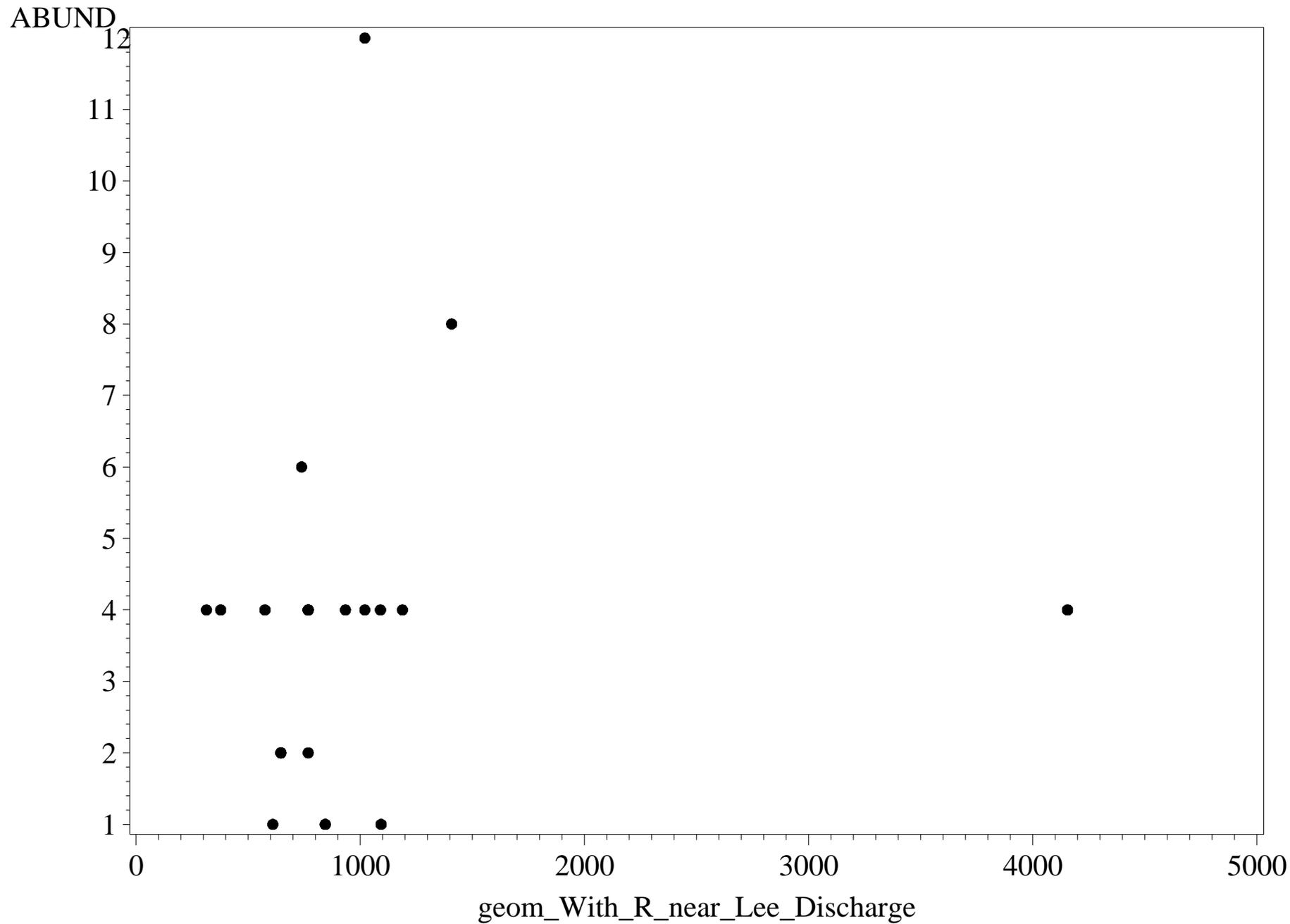
Individual Benthic Species vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)
name=NEURECLIPSIS SP.



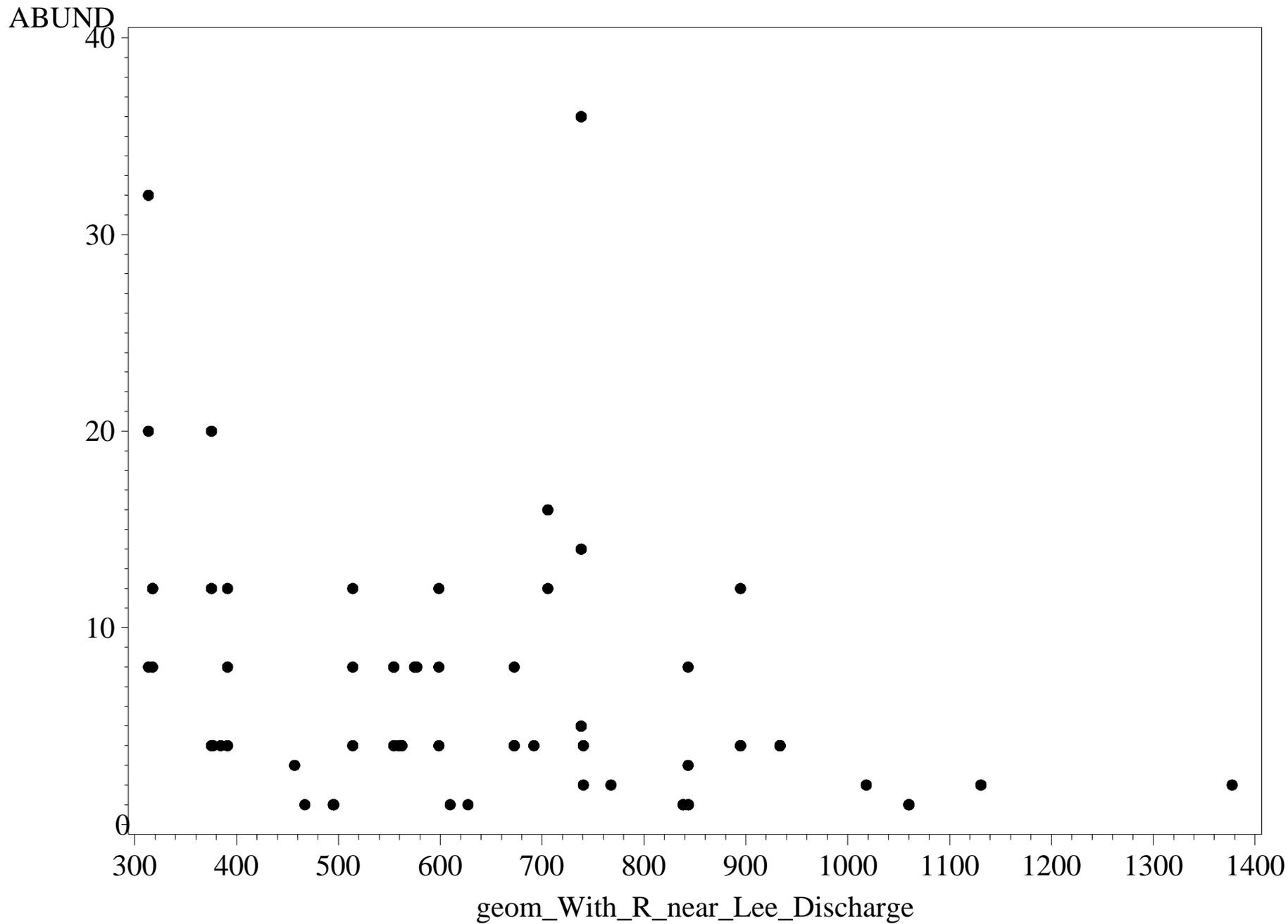
Individual Benthic Species vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)
name=OECETIS PERSIMILIS



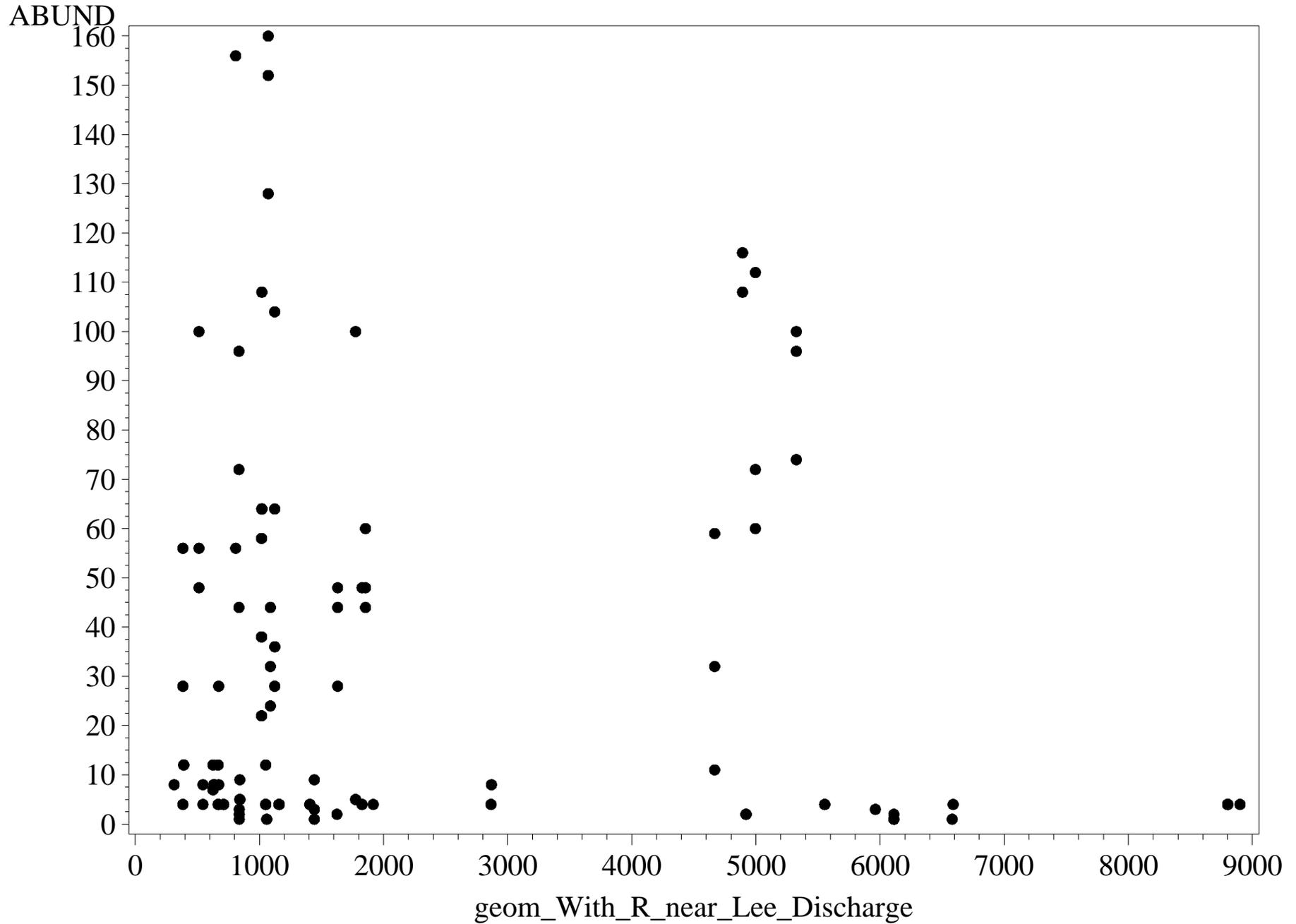
Individual Benthic Species vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)
name=OECETIS SP.



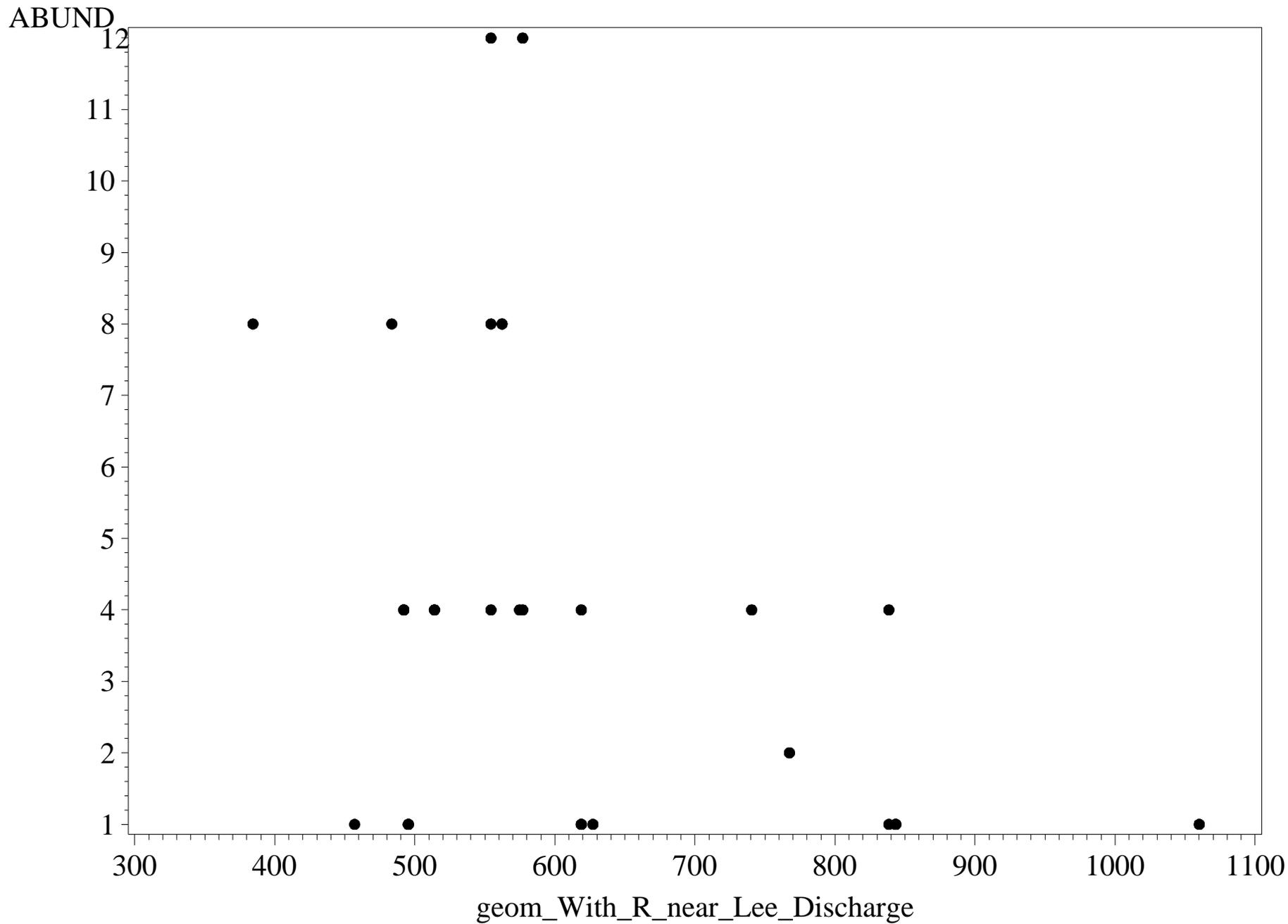
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name=OXYETHIRA SP.



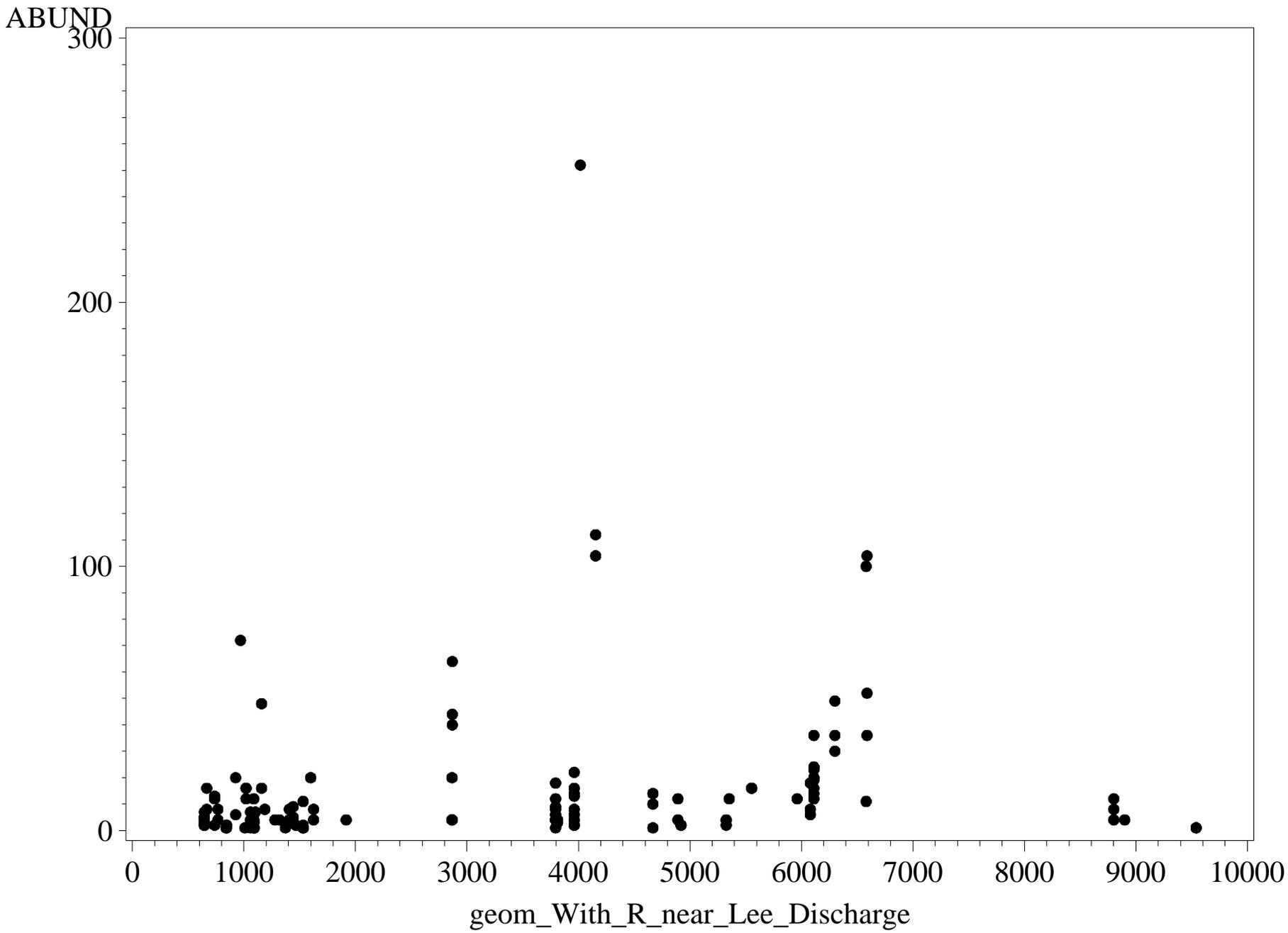
Individual Benthic Species vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)
name=PARAKIEFFERIELLA SP. B



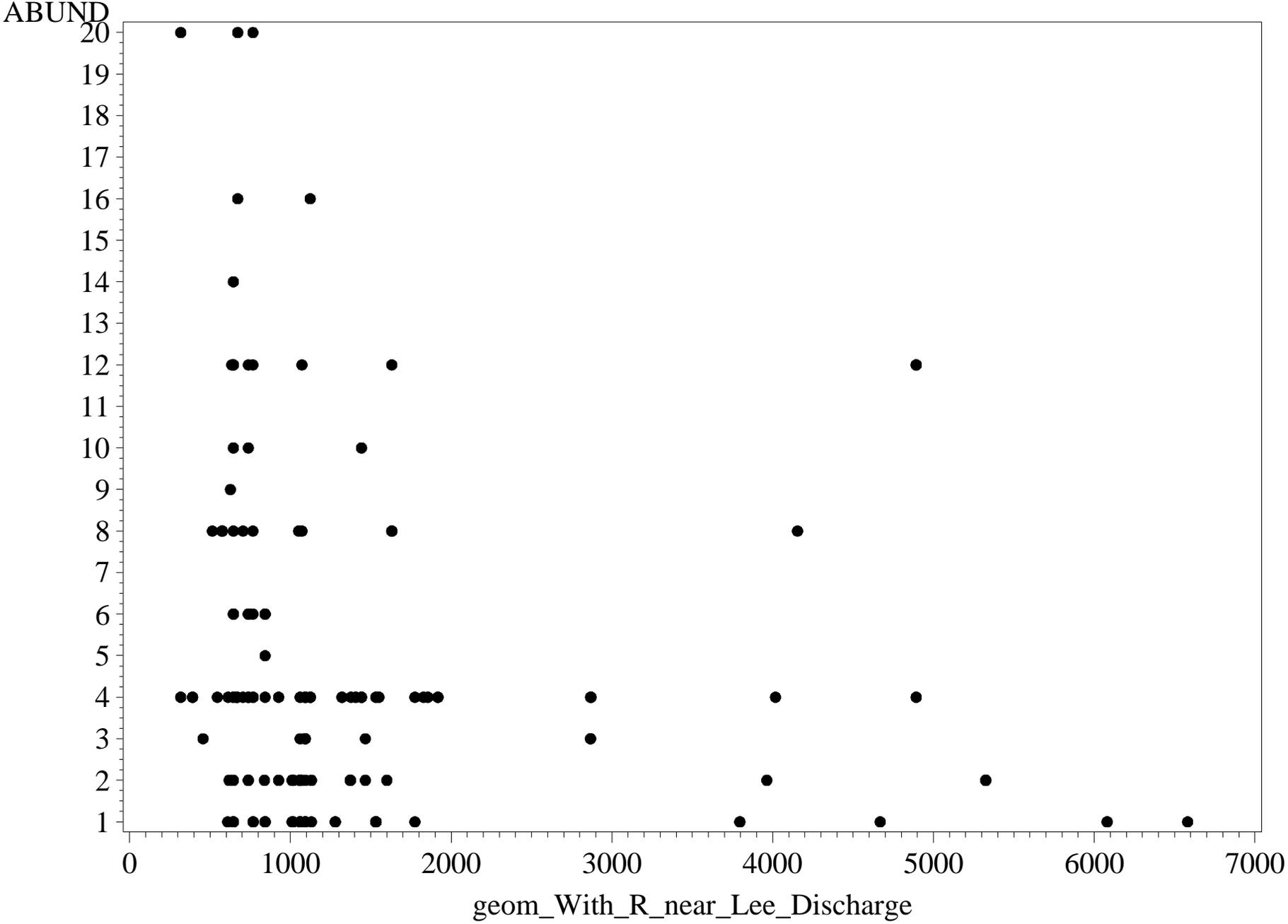
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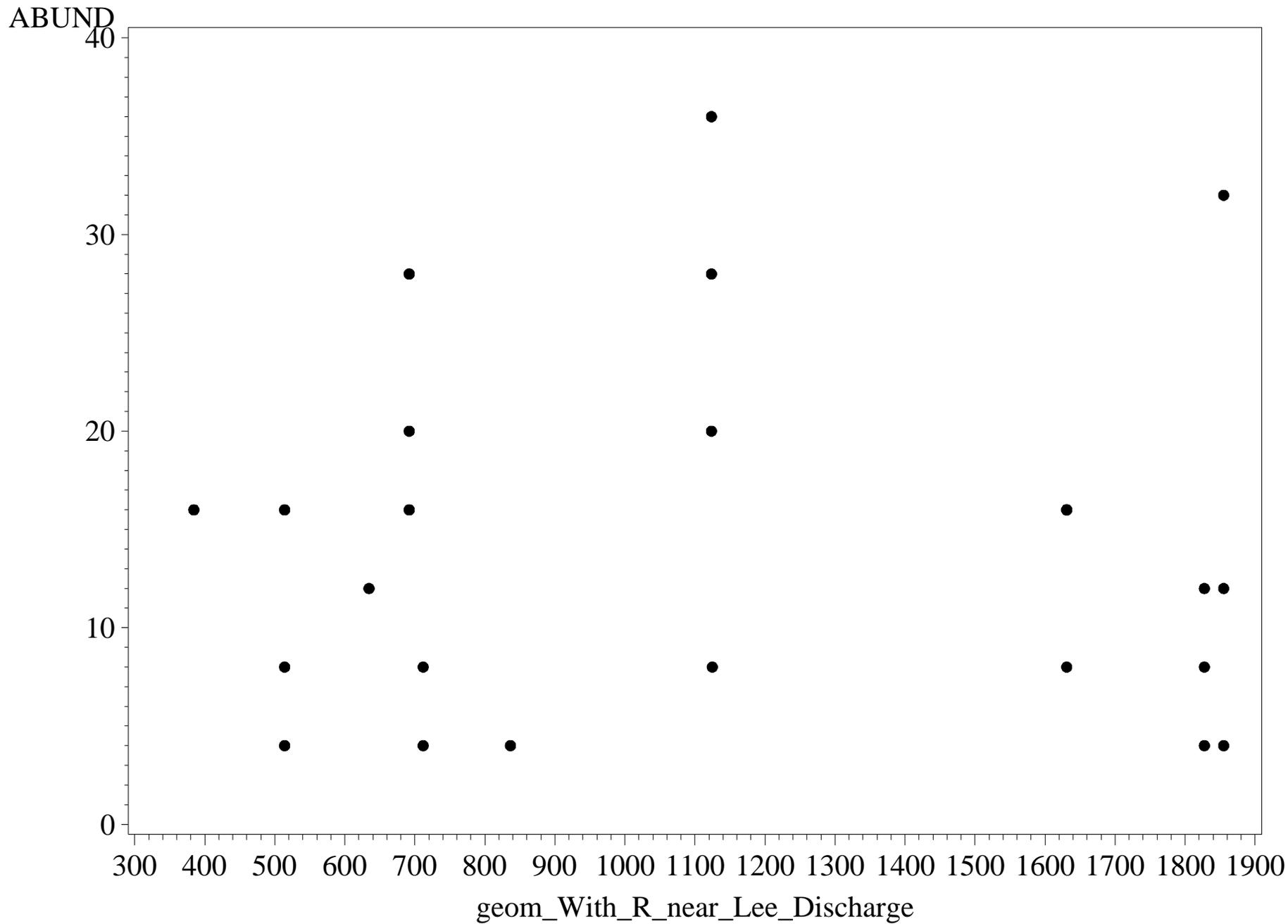
Individual Benthic Species vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)
name=POLYPEDILUM CONVICTUM



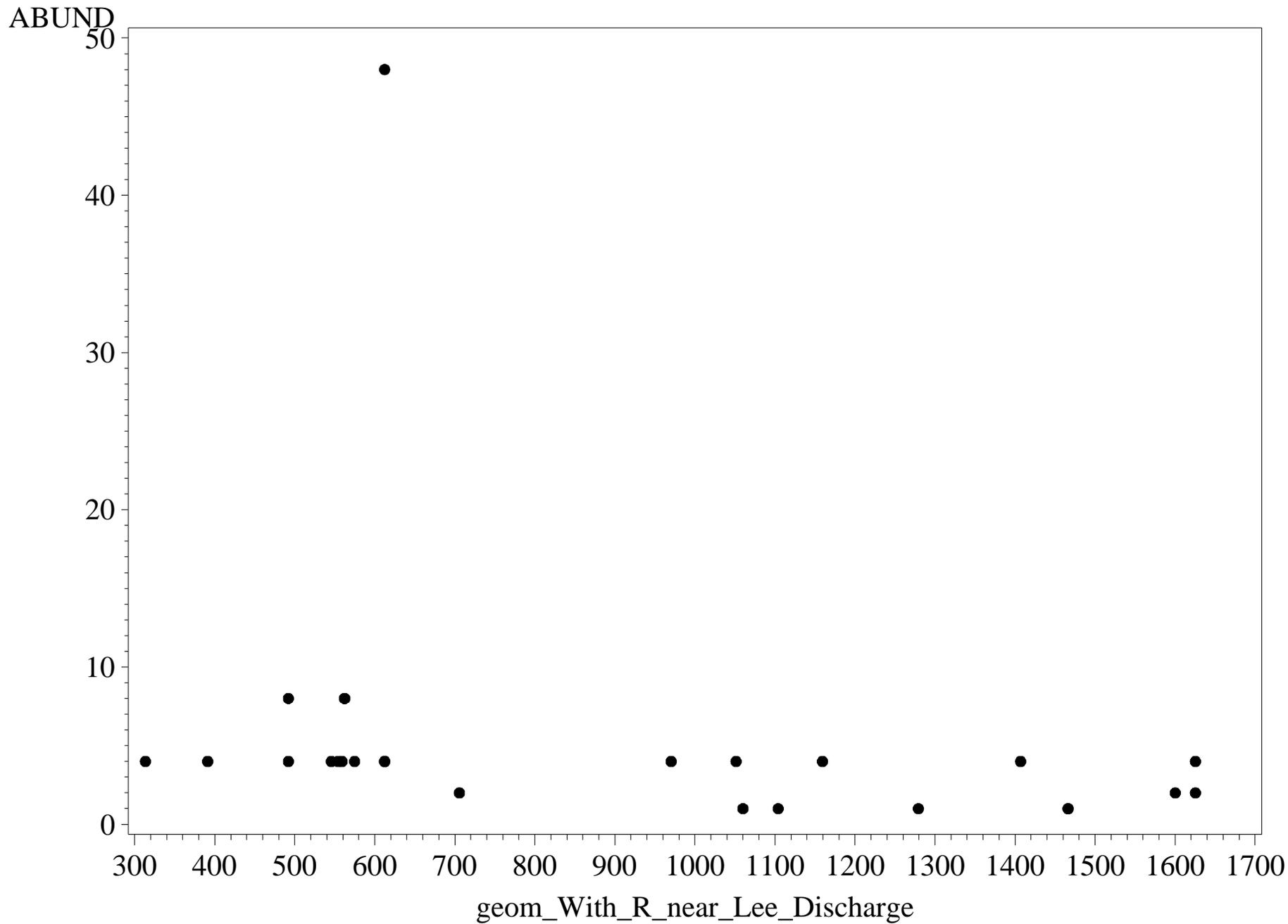
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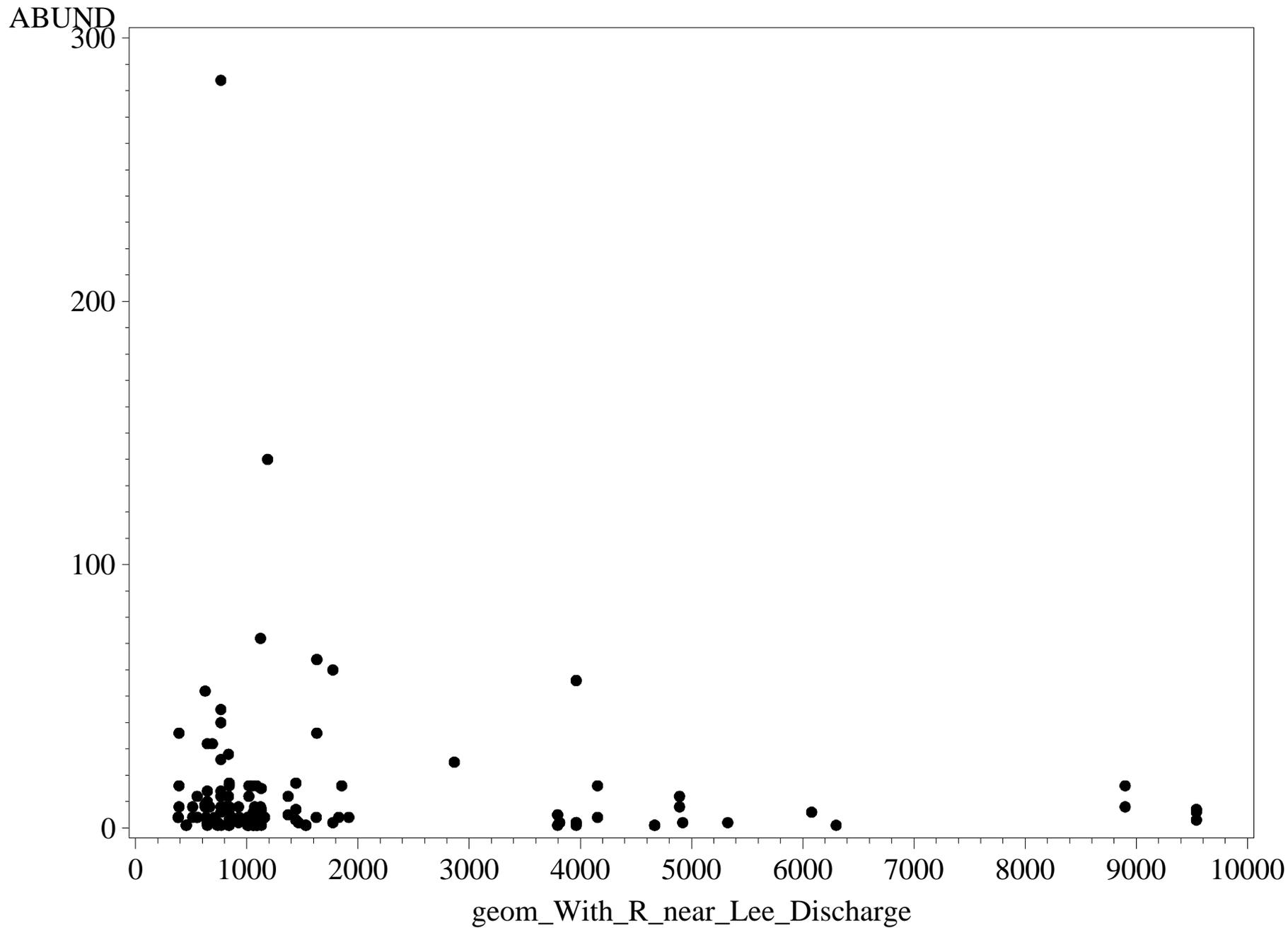
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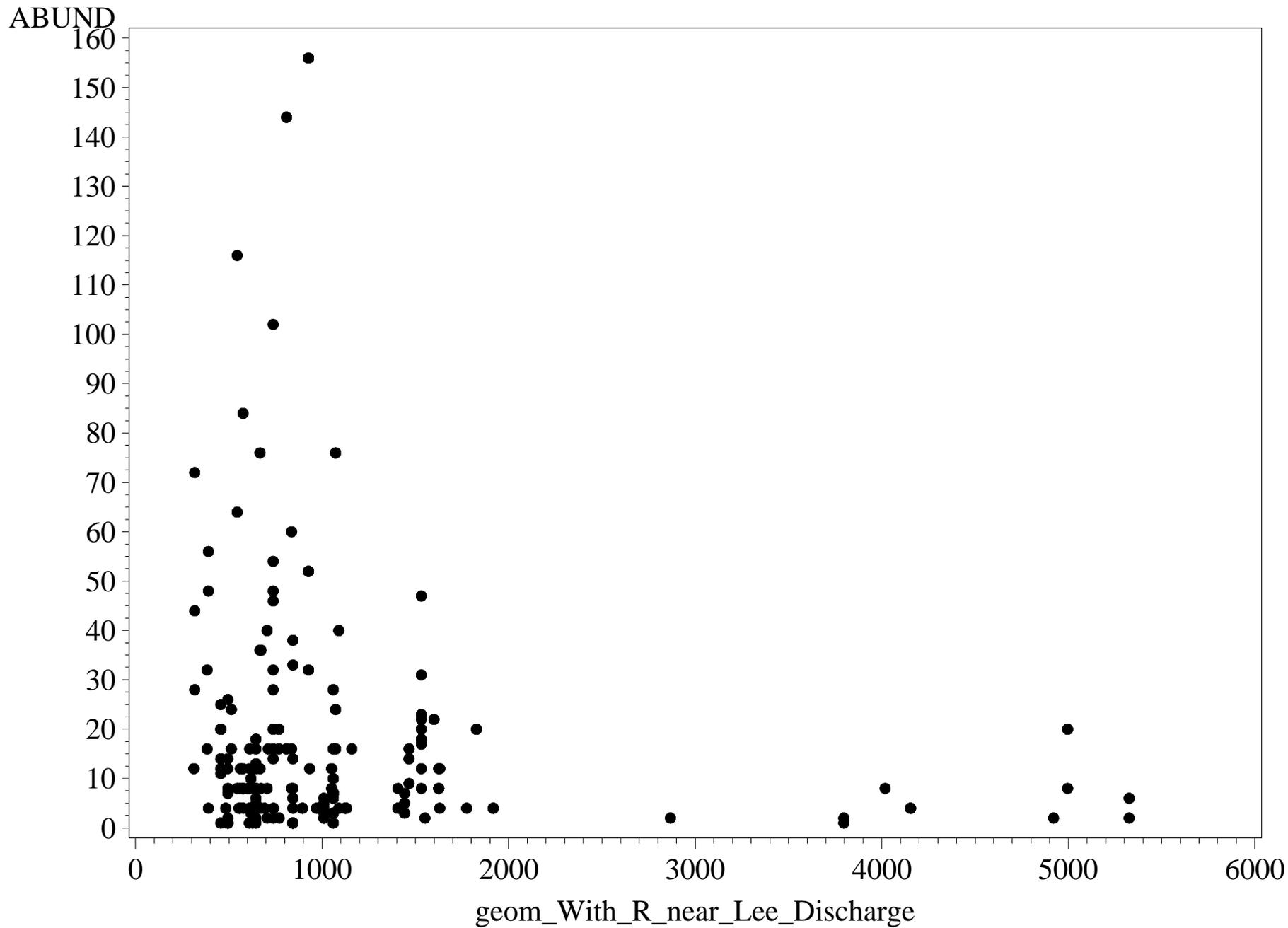
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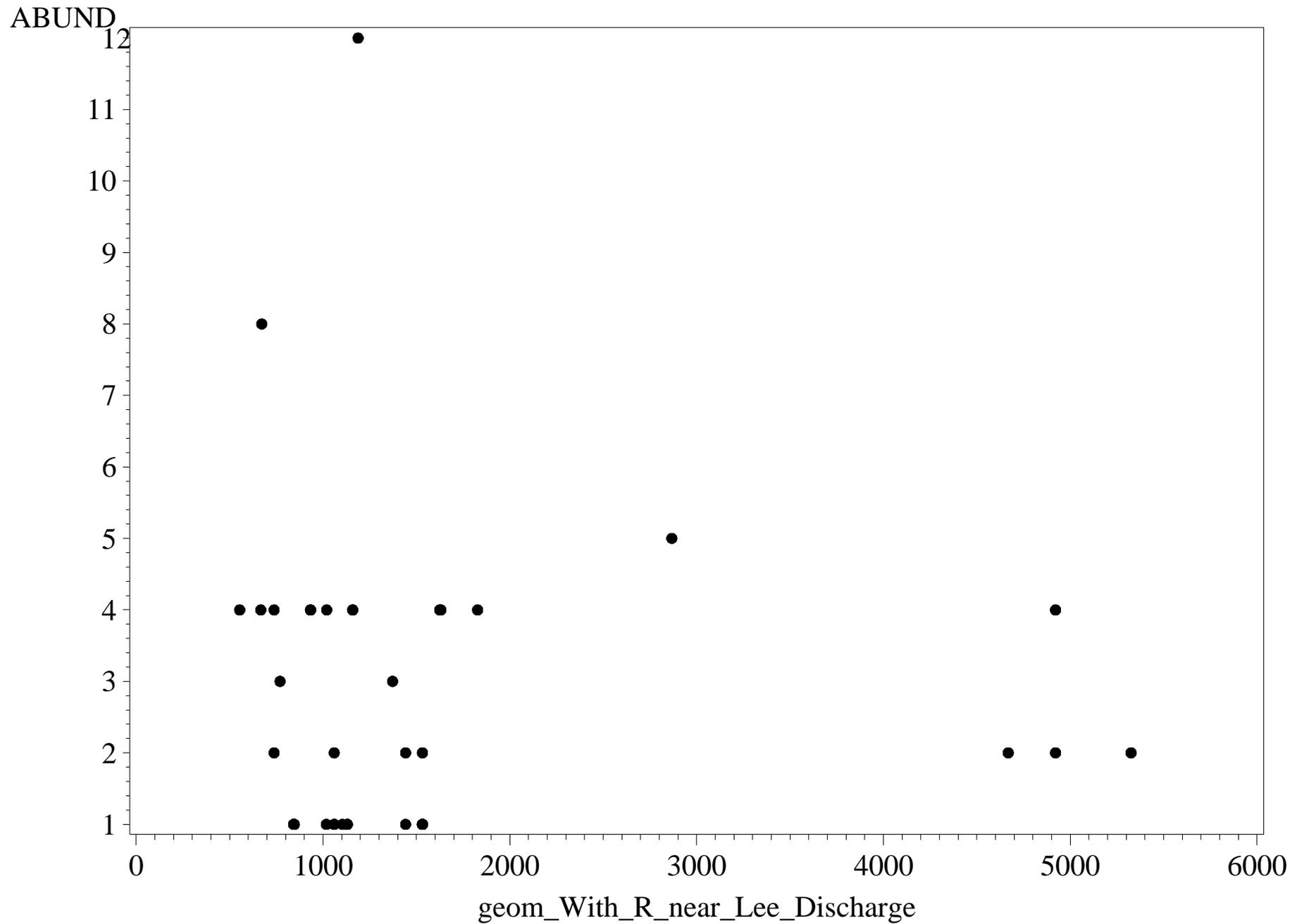
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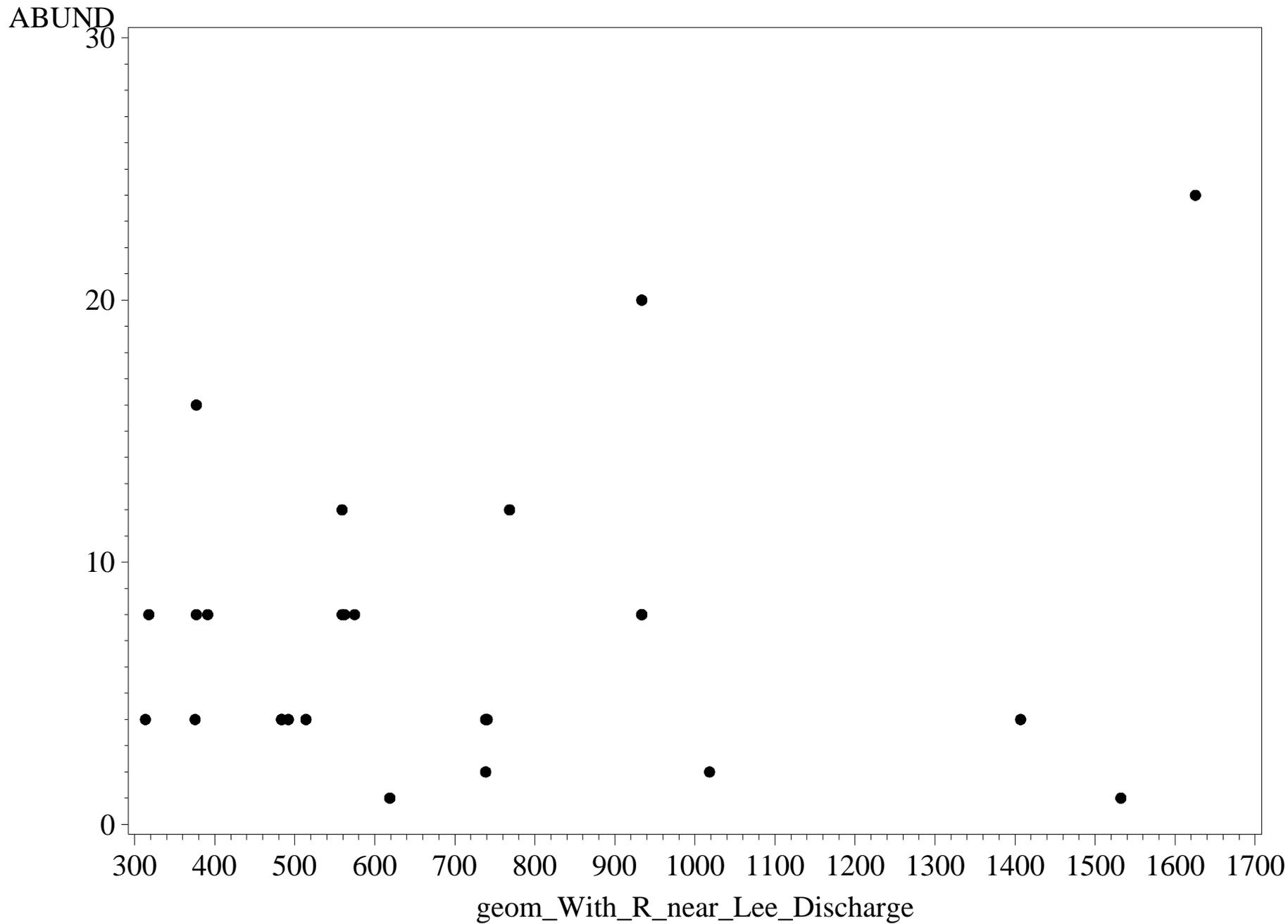
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name=POLYPEDILUM SCALAENUM G



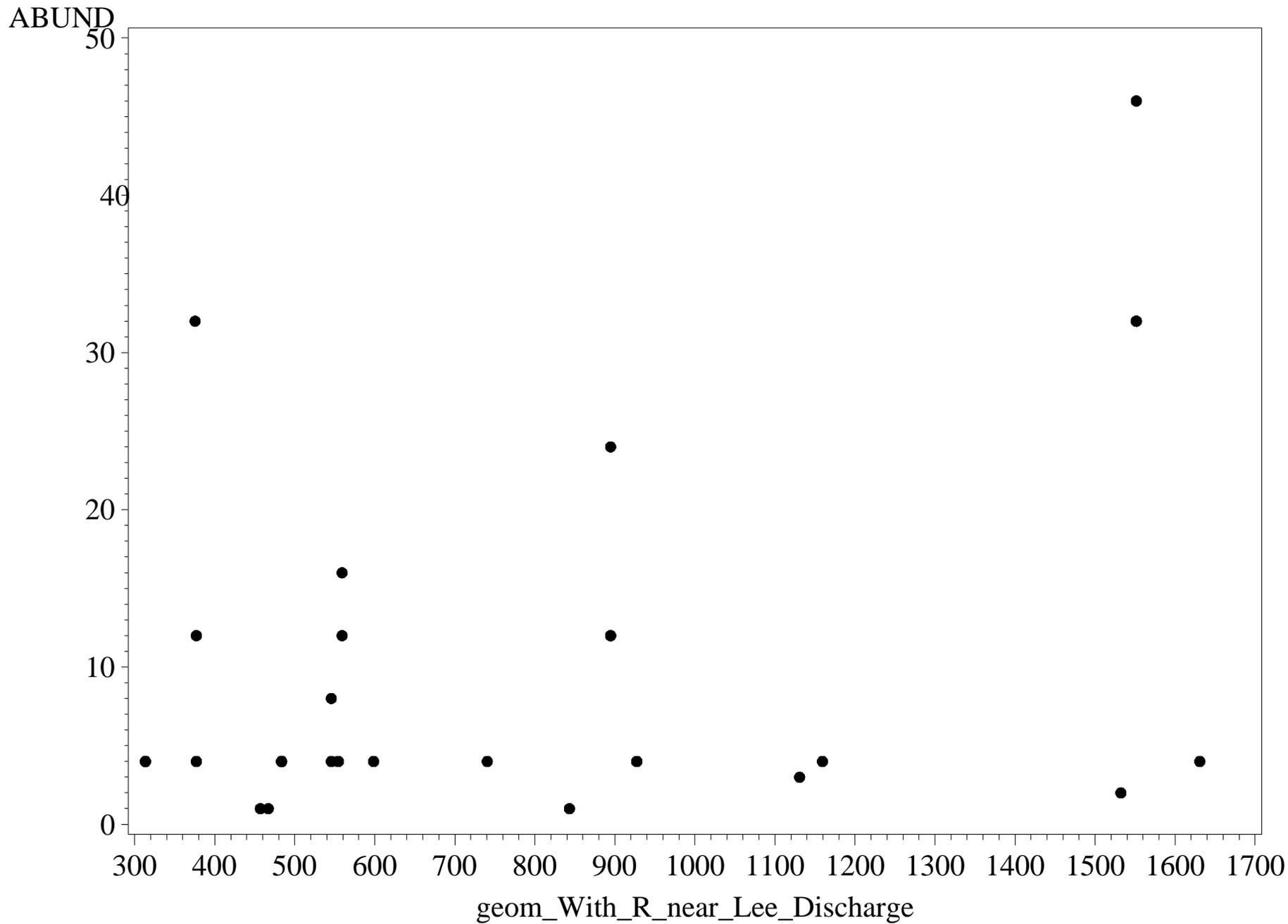
Individual Benthic Species vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)
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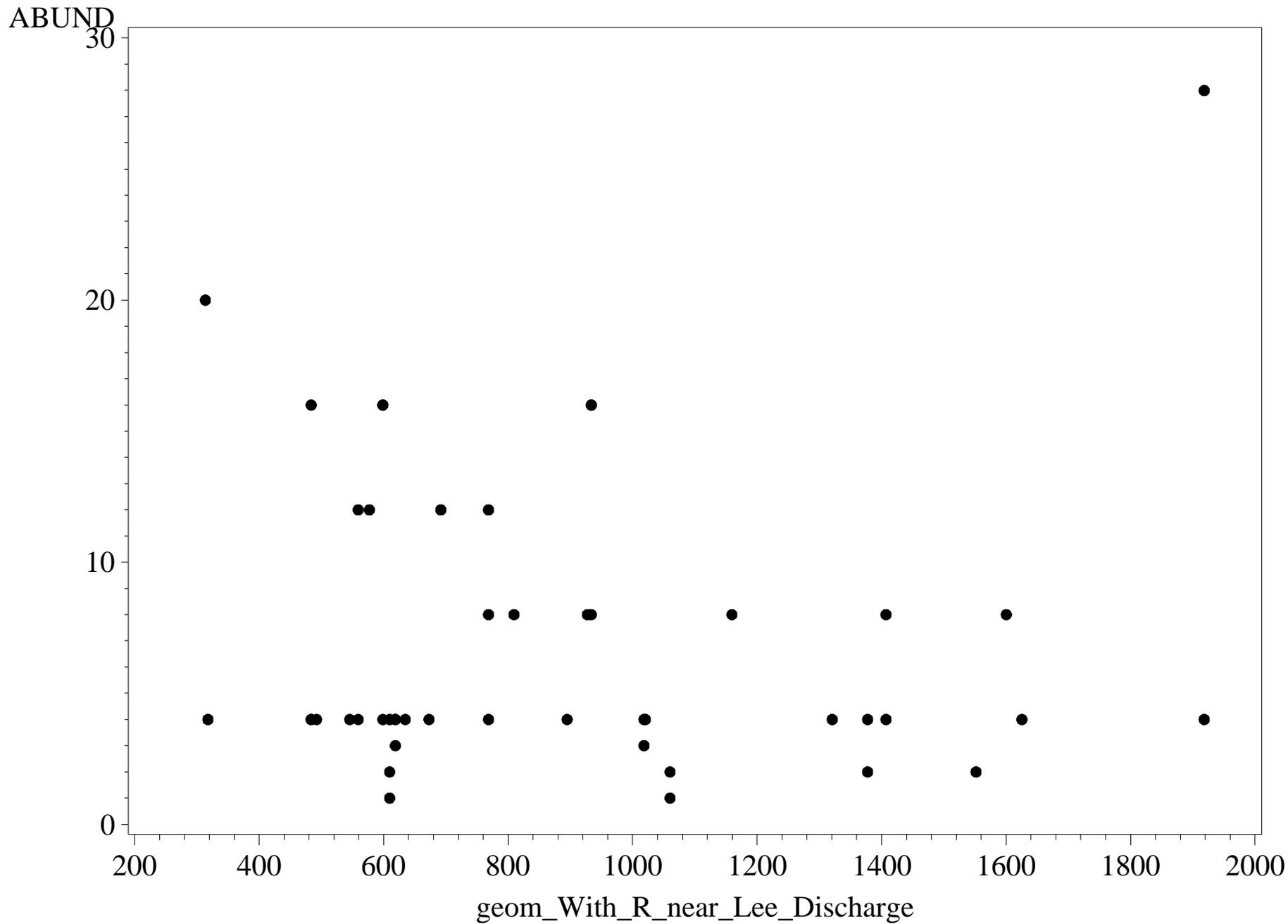
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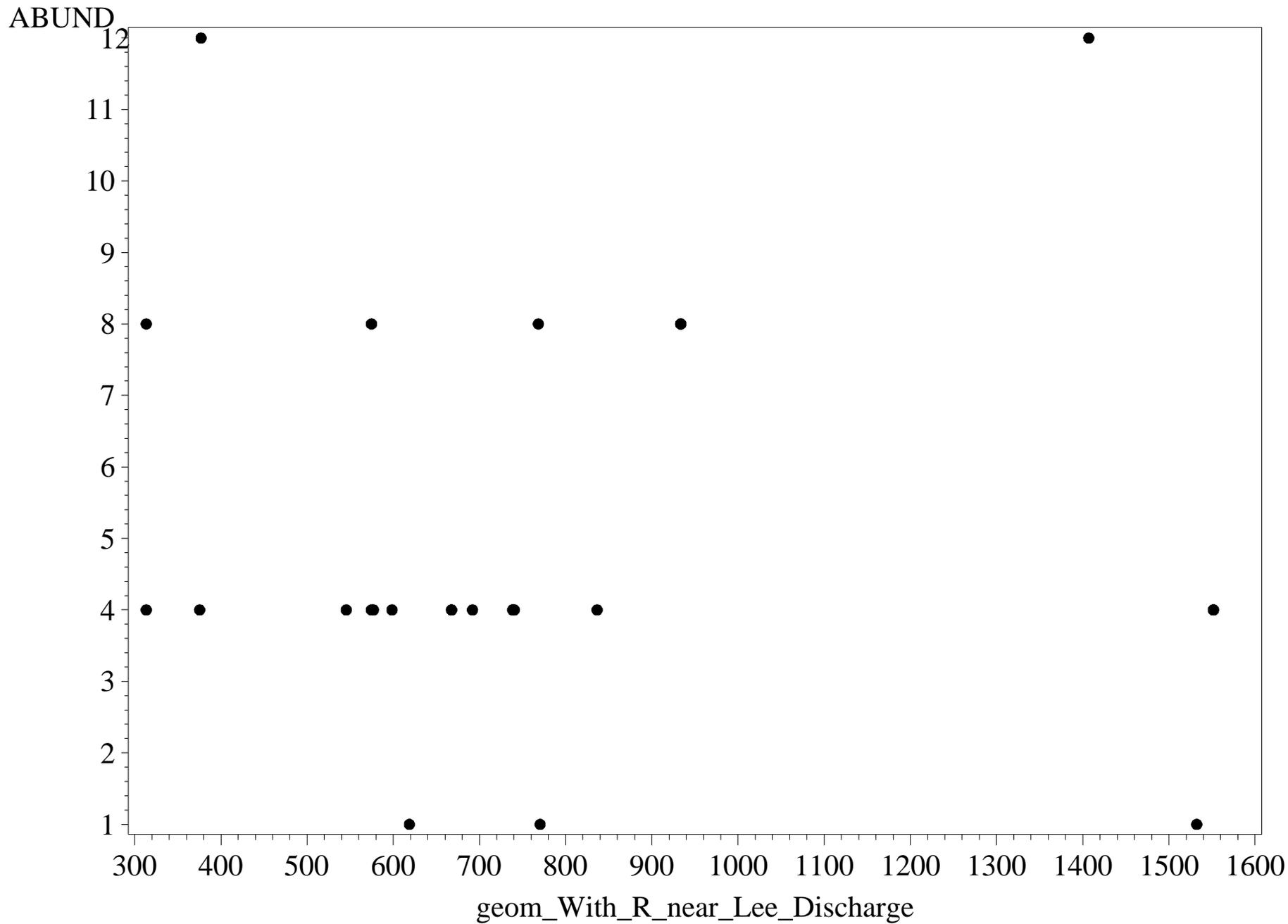
Individual Benthic Species vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)
name=PRISTINA LEIDYI



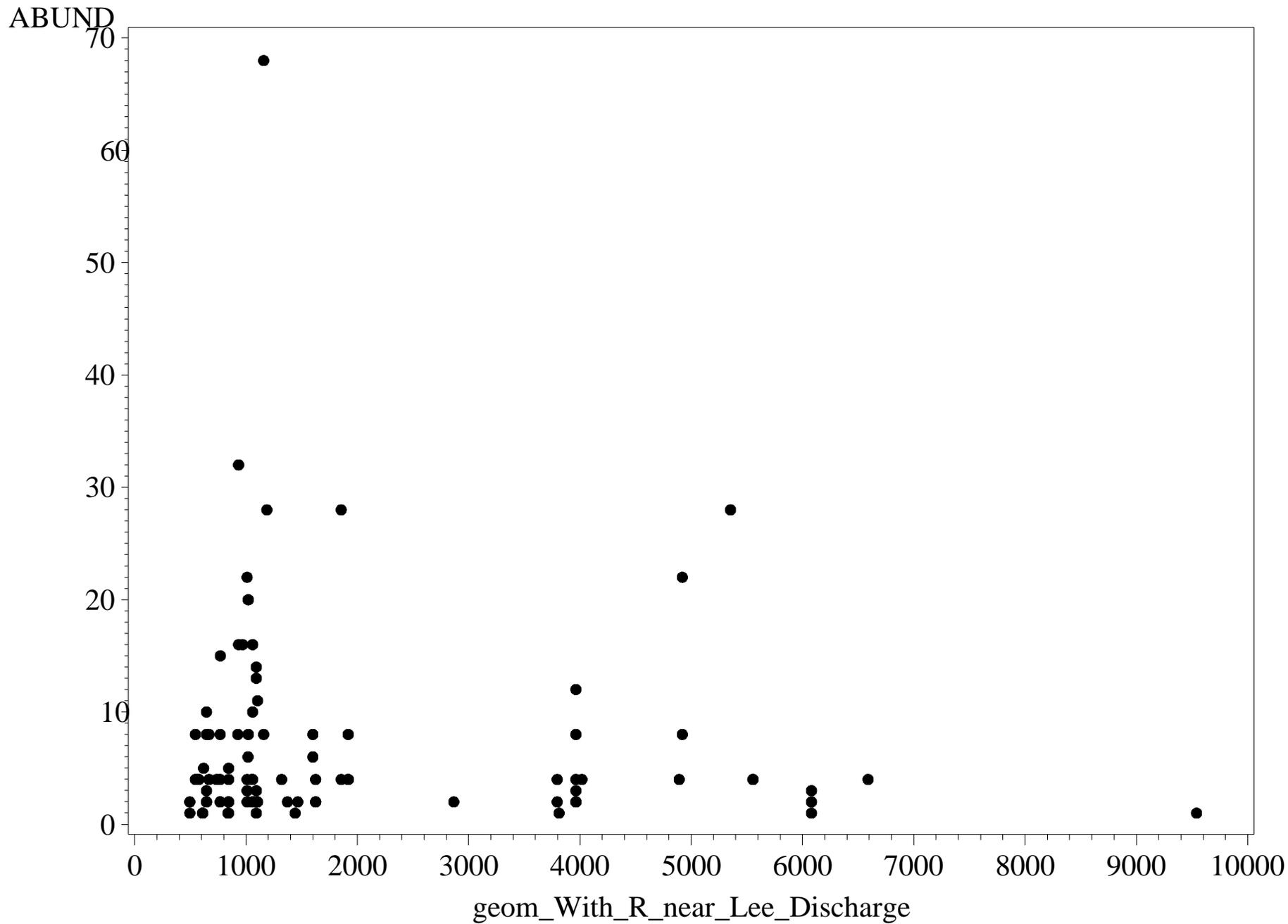
Individual Benthic Species vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)
name=PROCLOEON VIRIDOCULAR



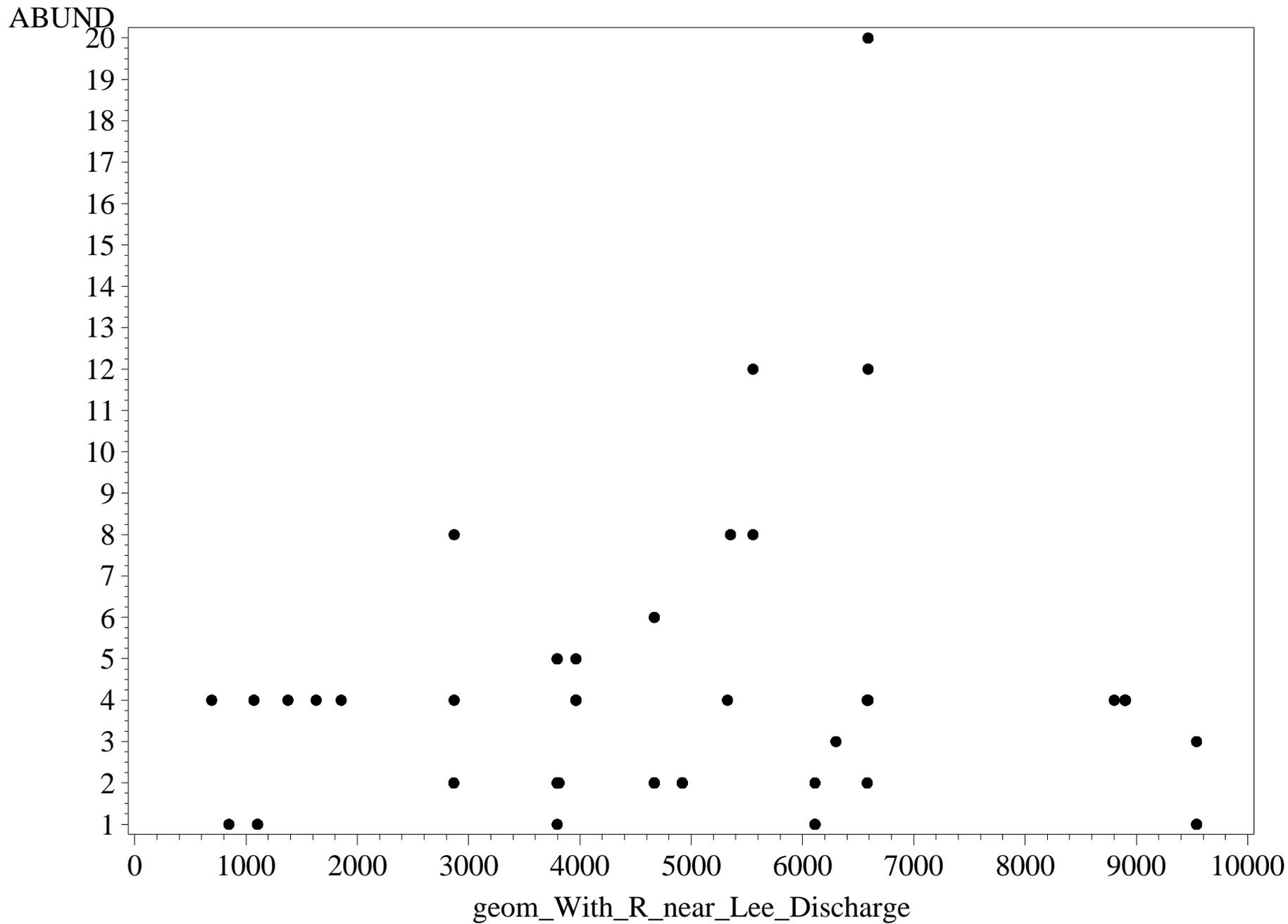
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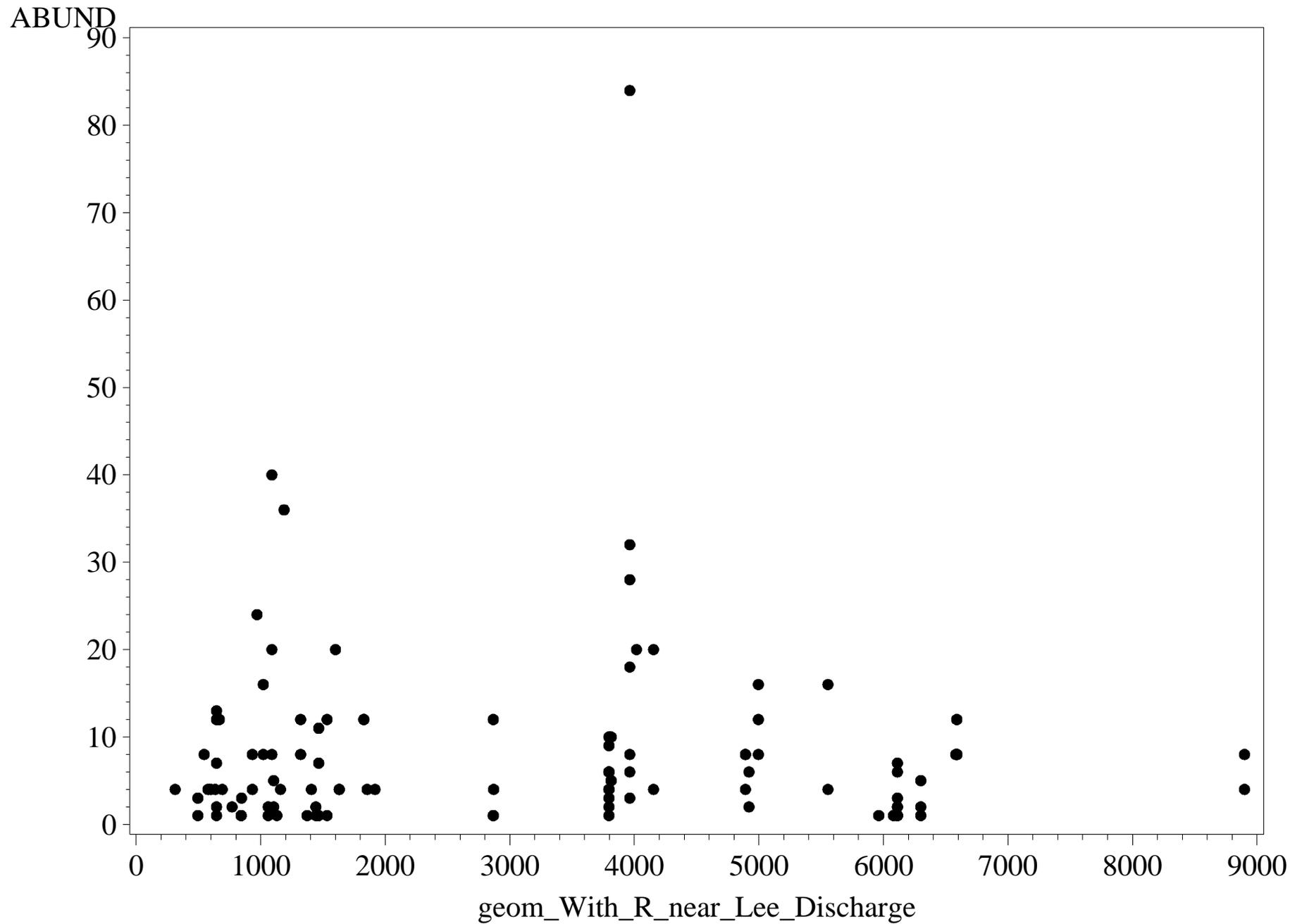
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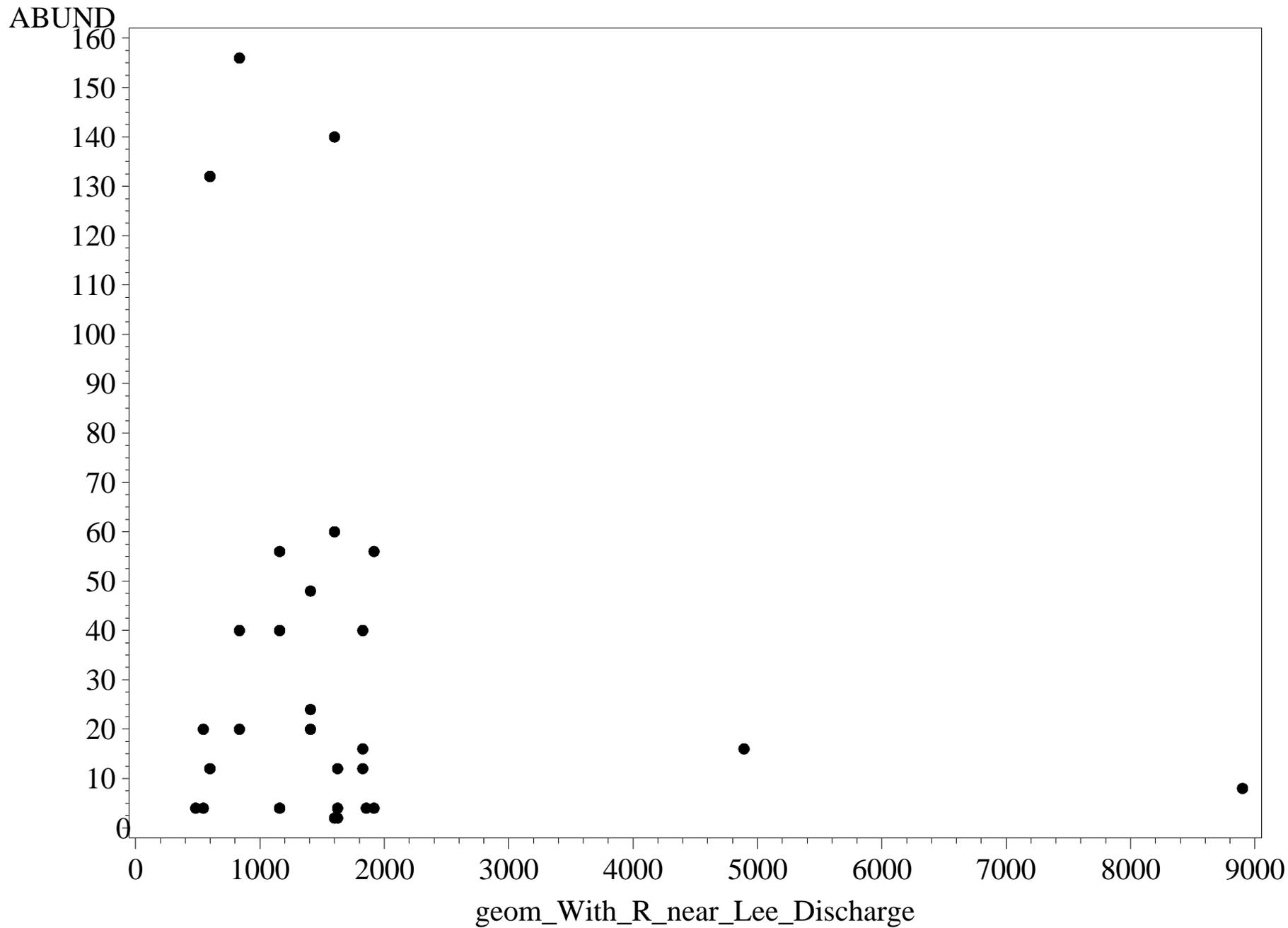
Individual Benthic Species vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)
name=RHEOCRICOTOPUS ROBACKI



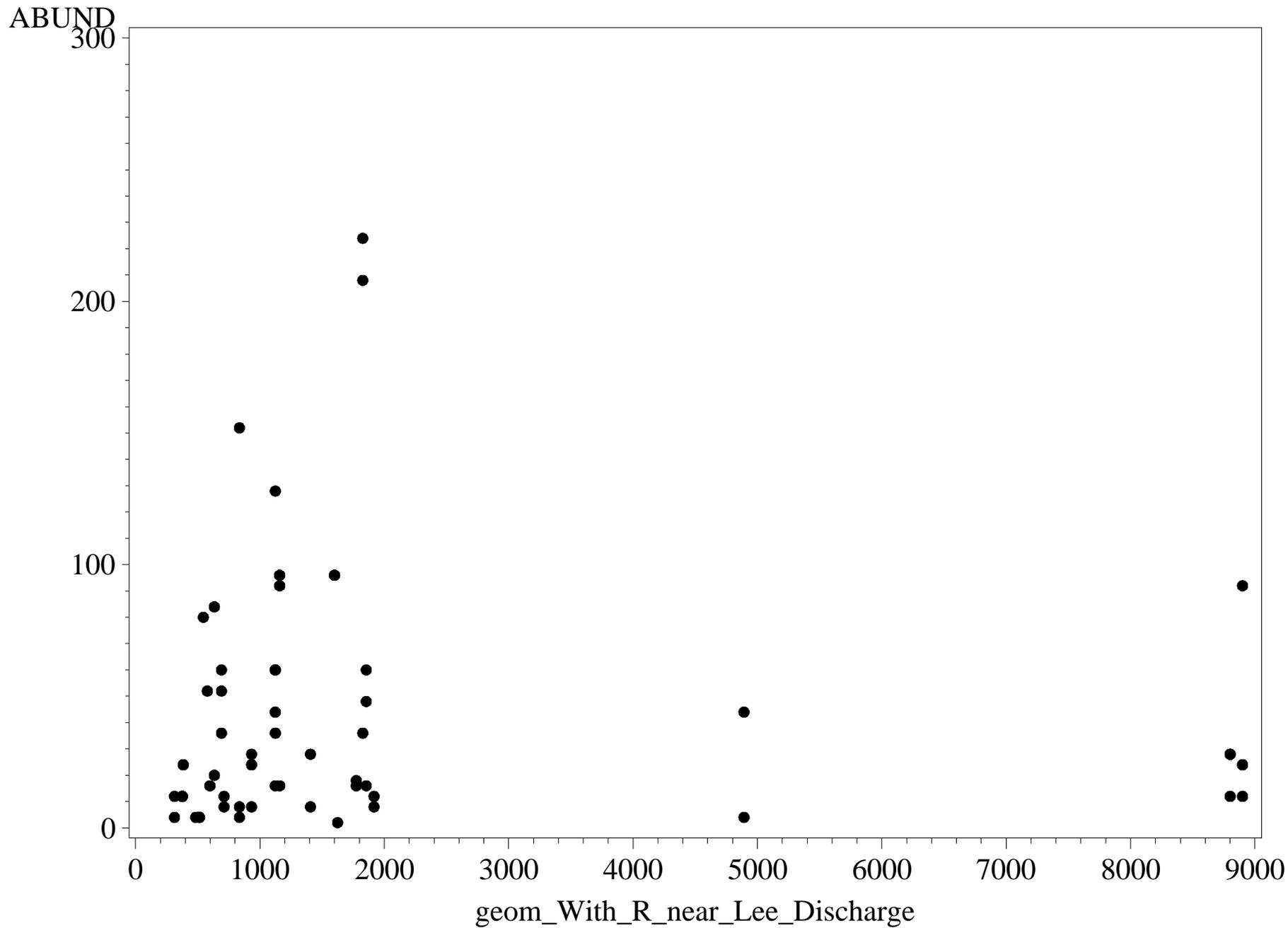
Individual Benthic Species vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)
name=RHEOPELOPIA SP. A



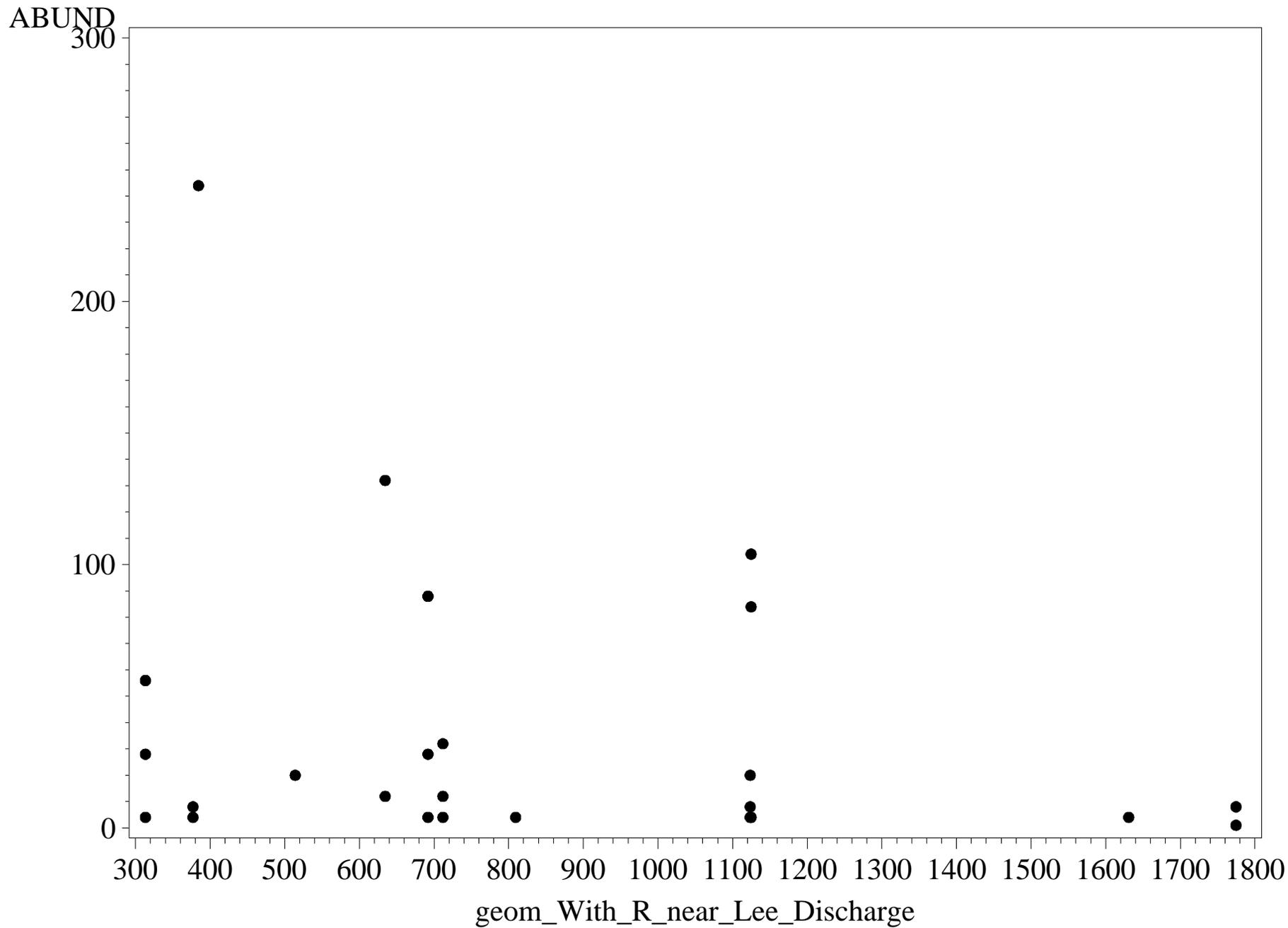
Individual Benthic Species vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)
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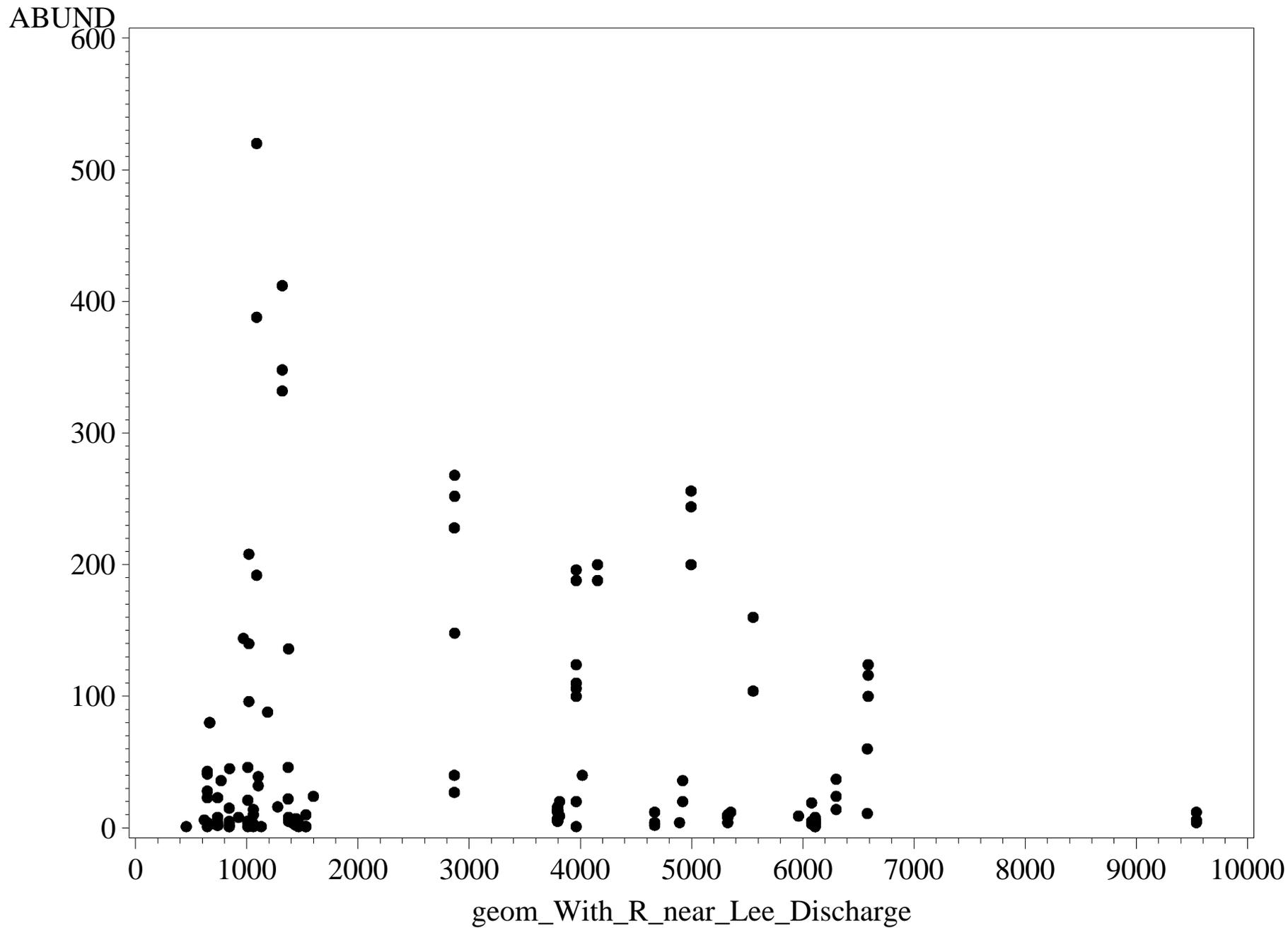
Individual Benthic Species vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)
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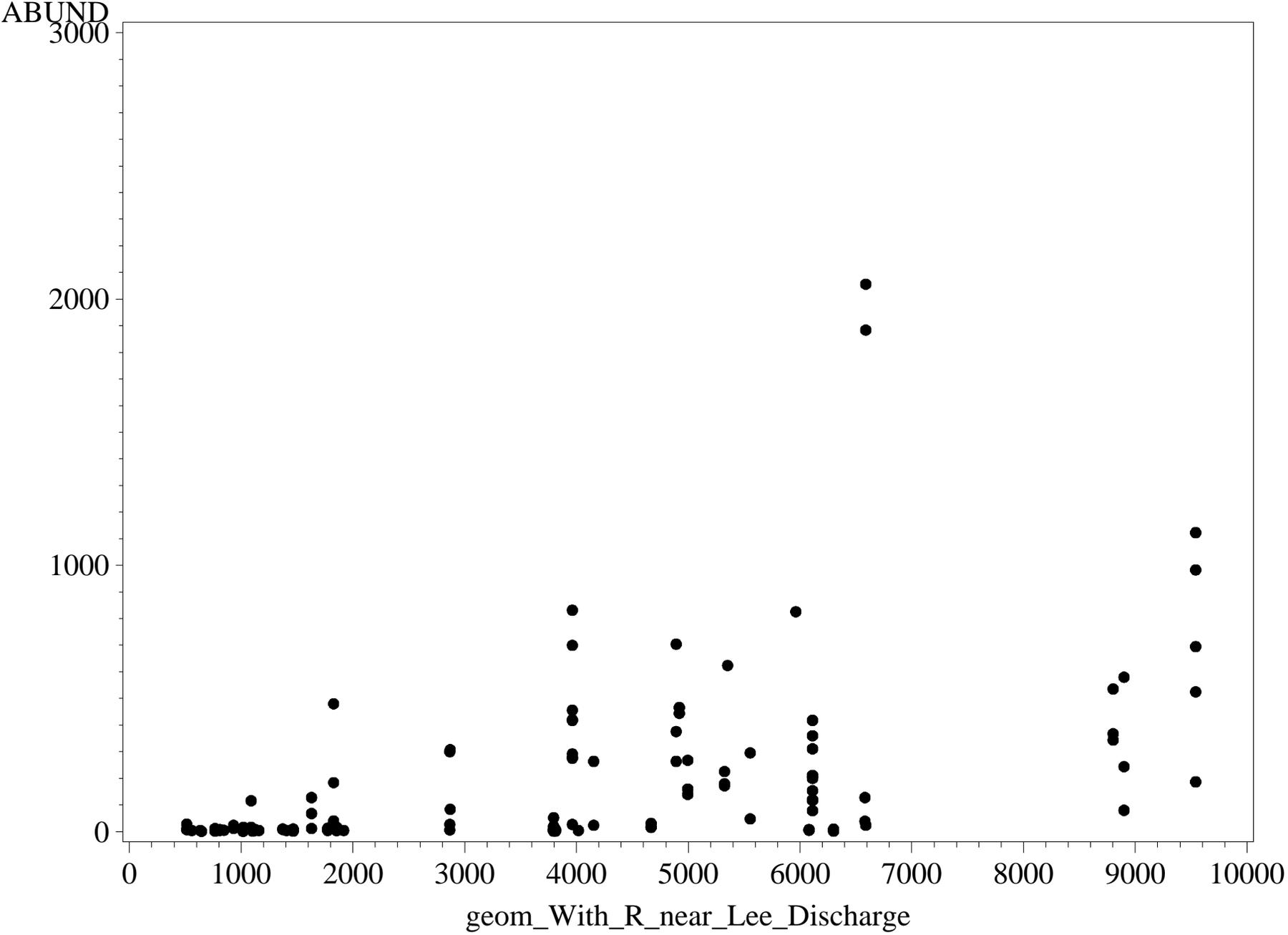
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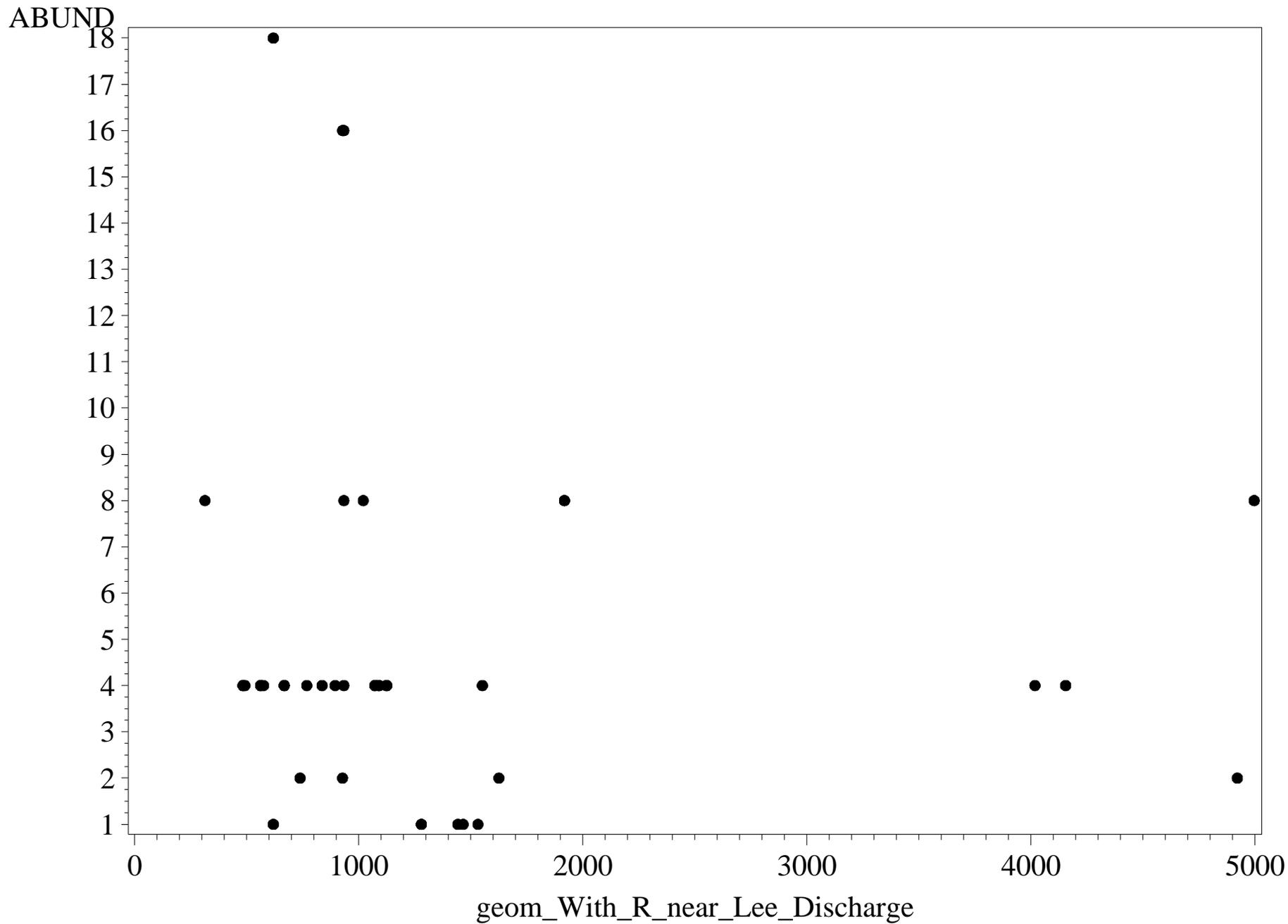
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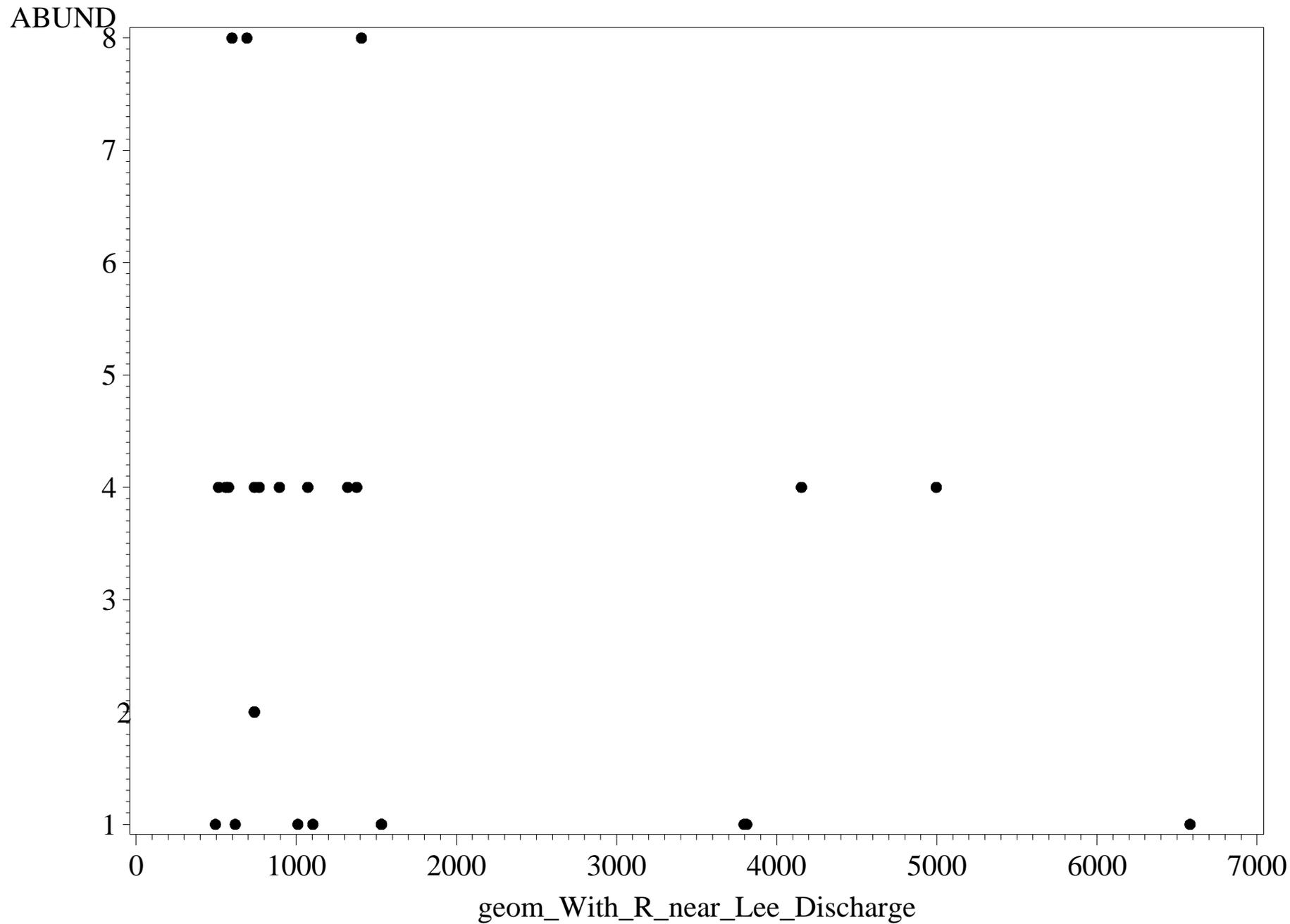
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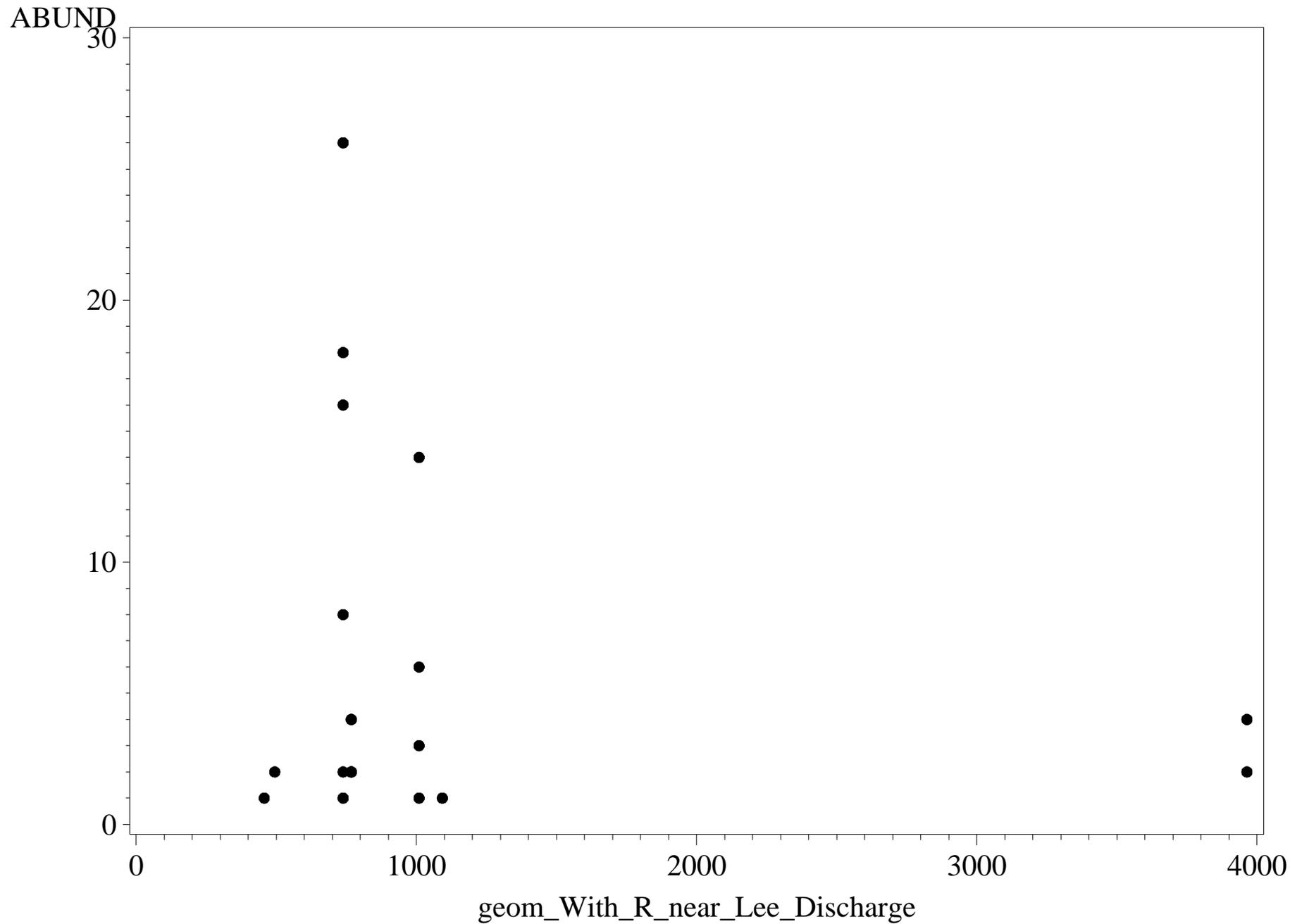
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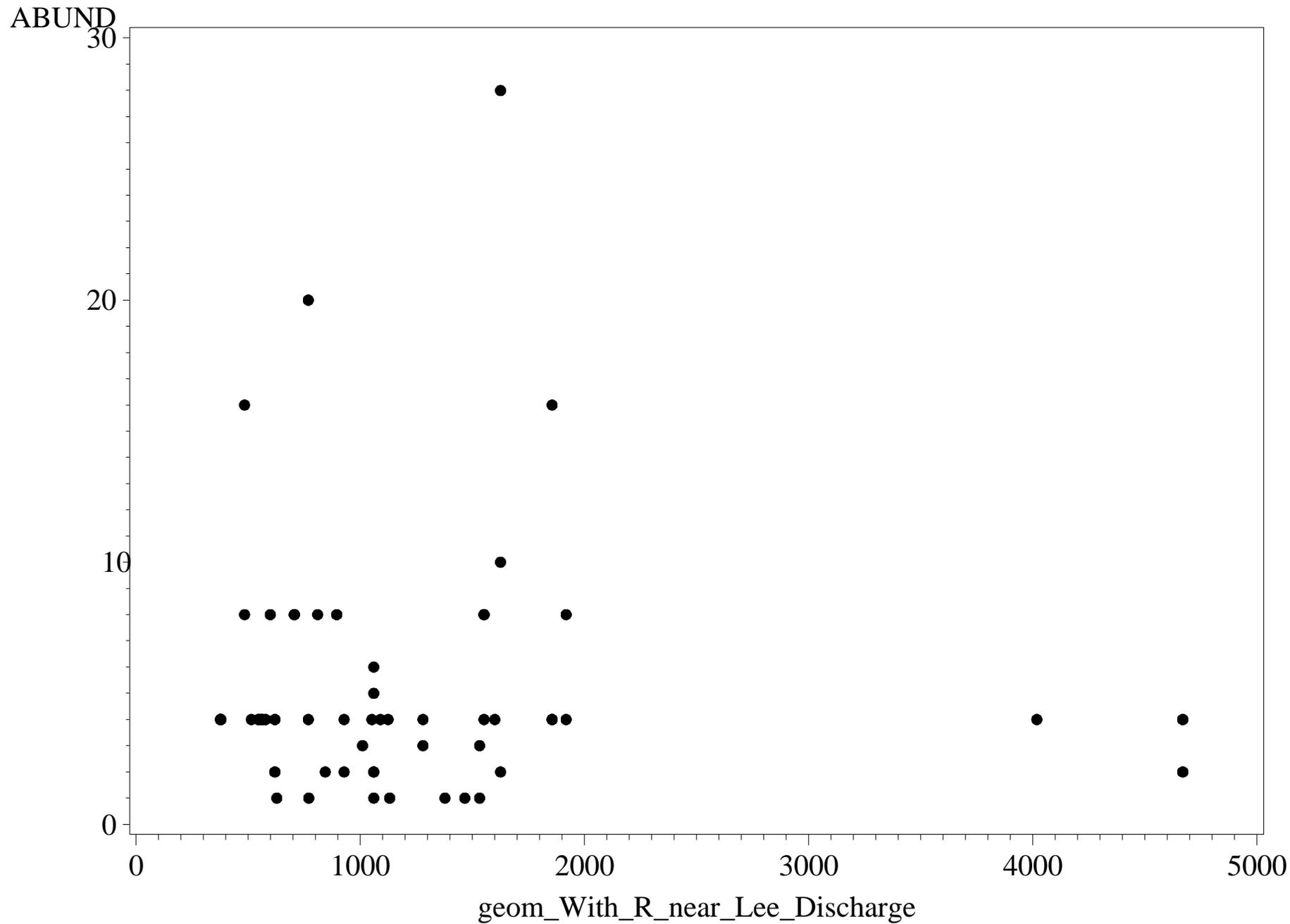
Individual Benthic Species vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)
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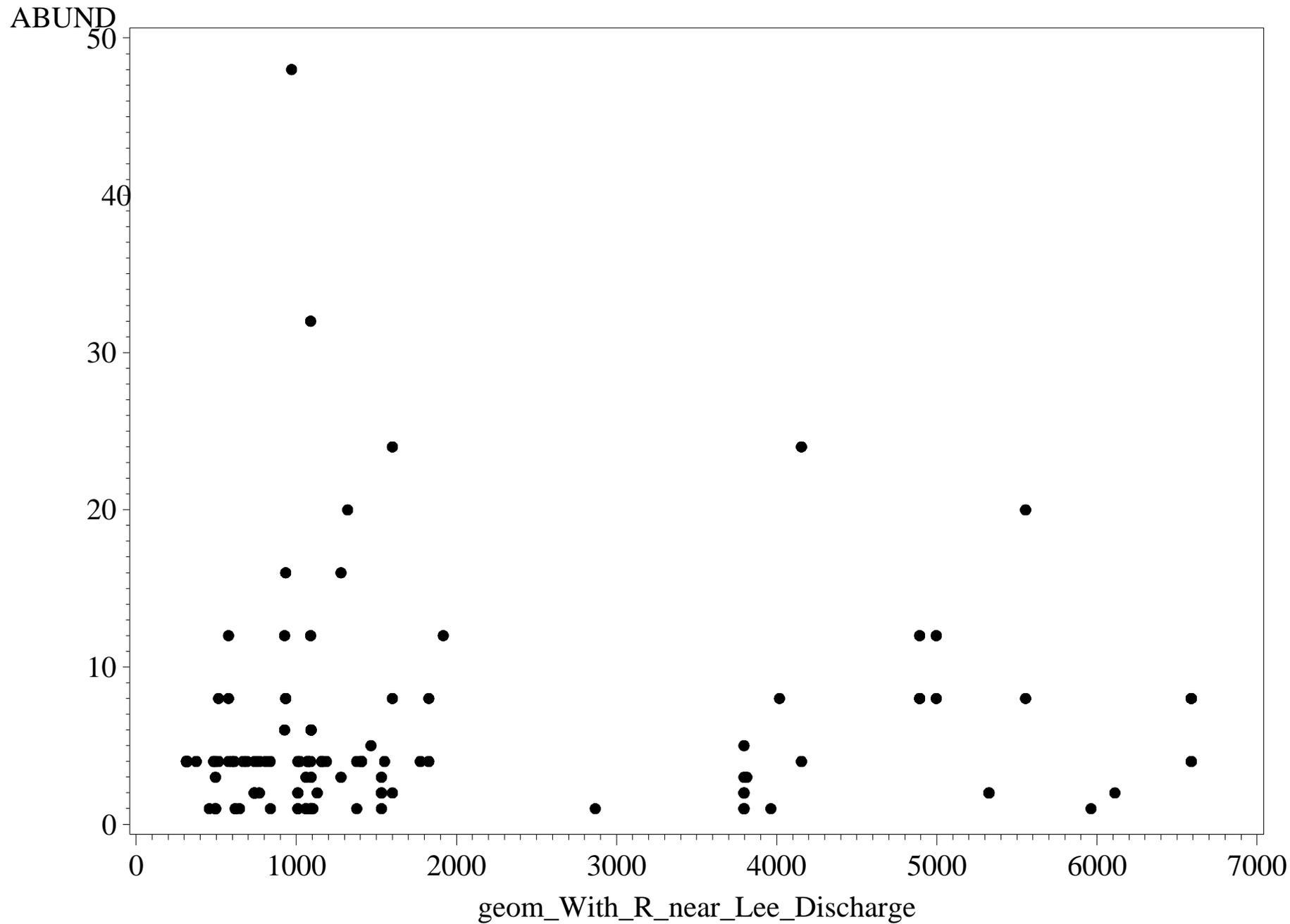
Individual Benthic Species vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)
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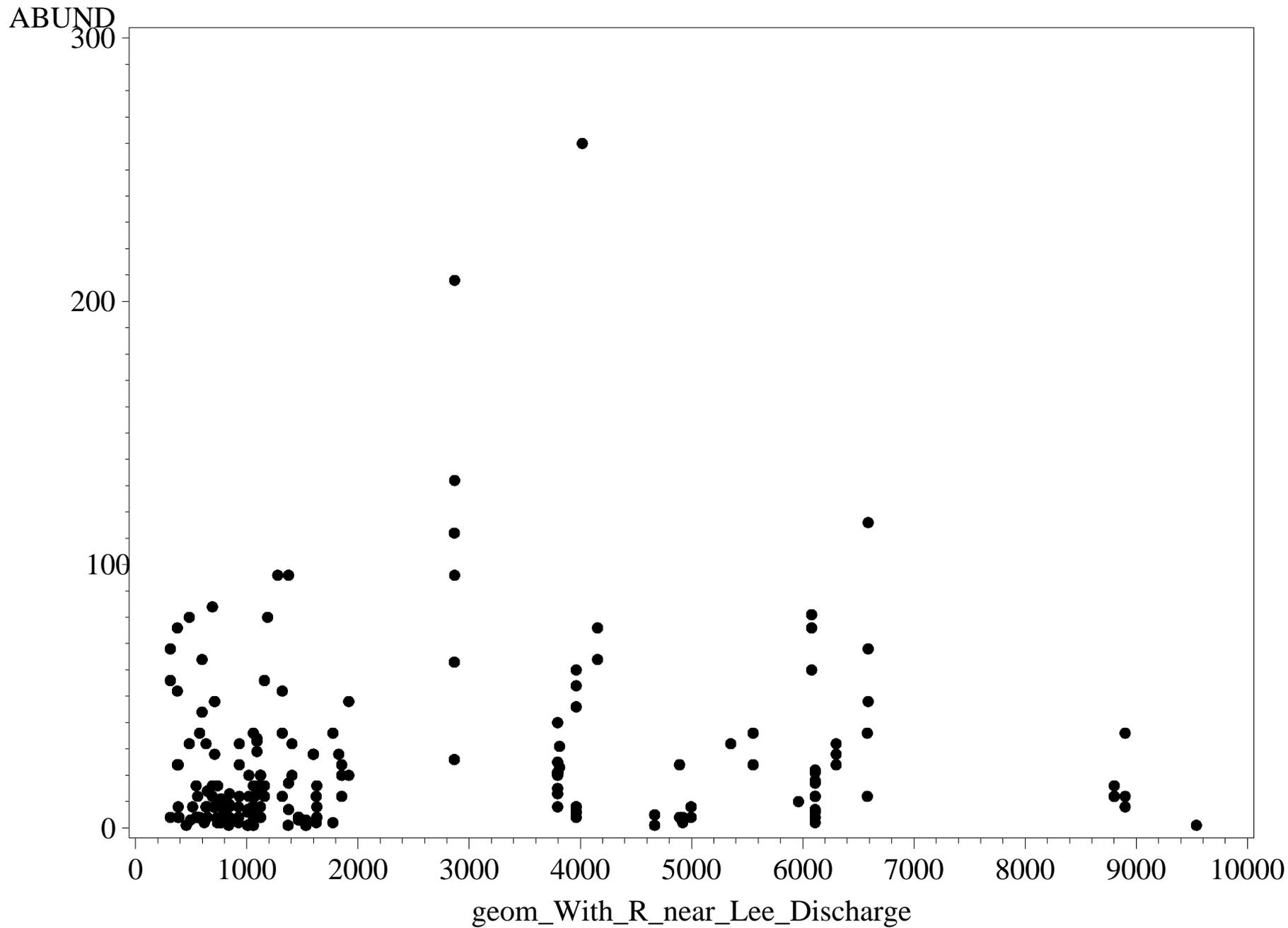
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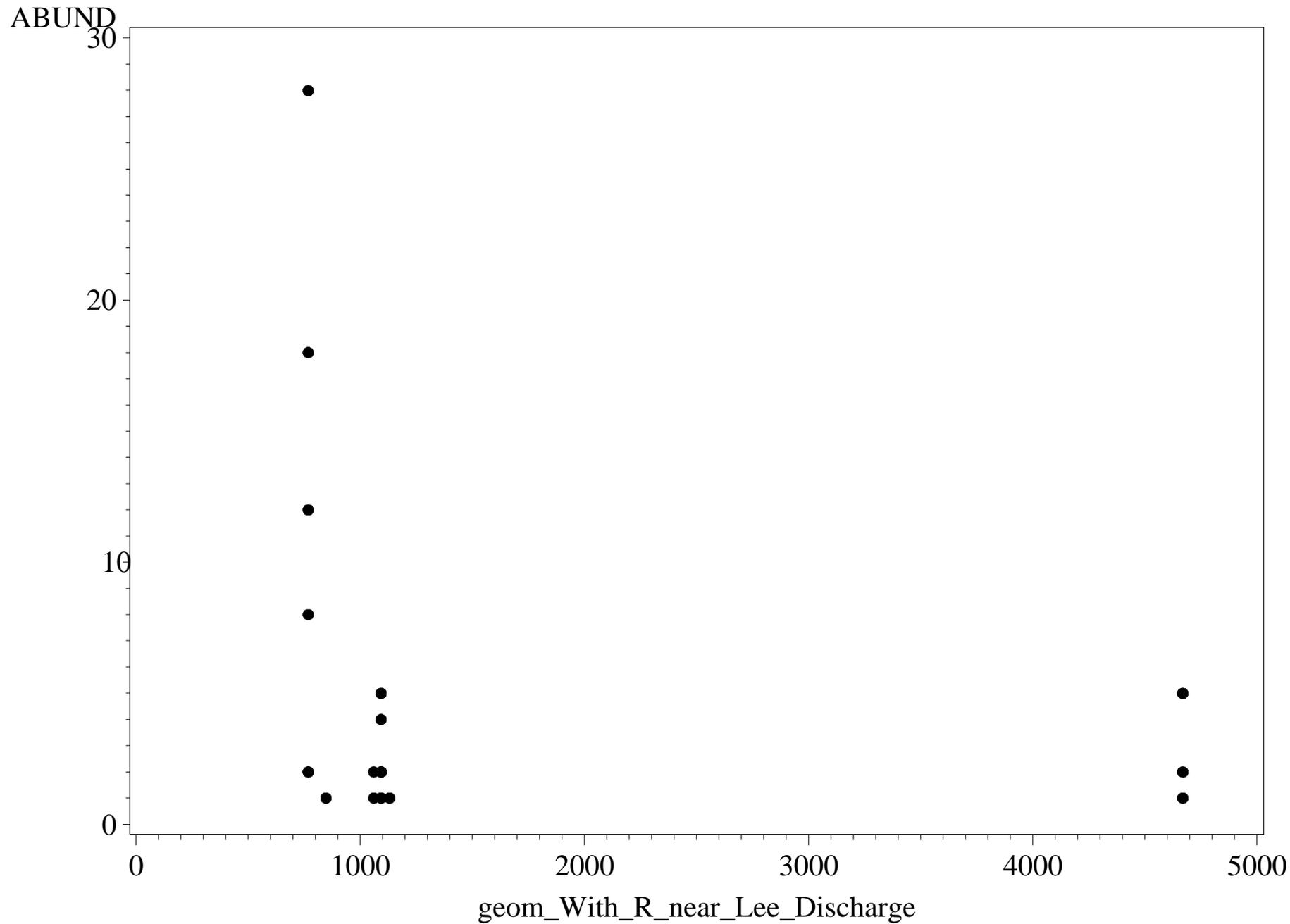
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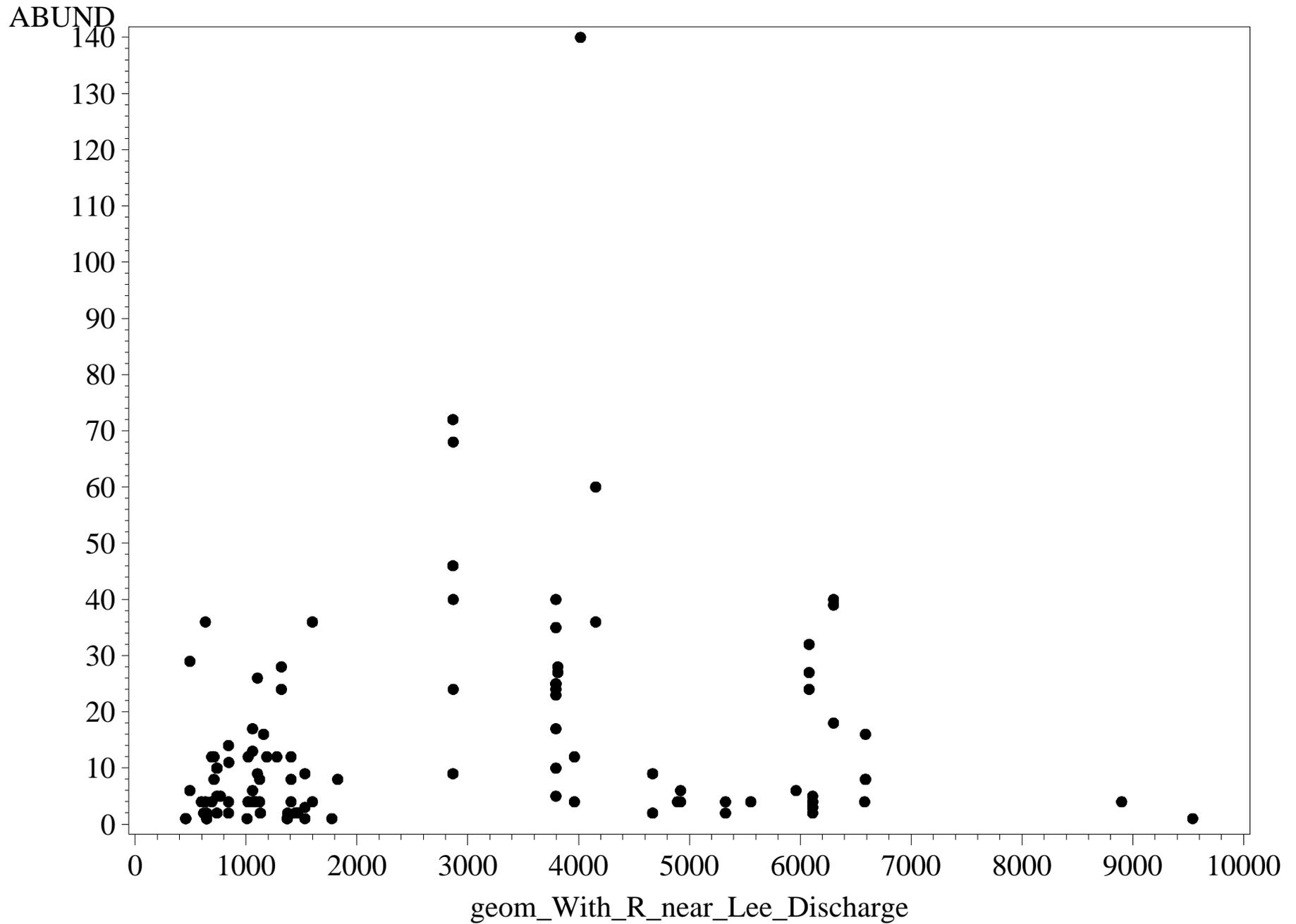
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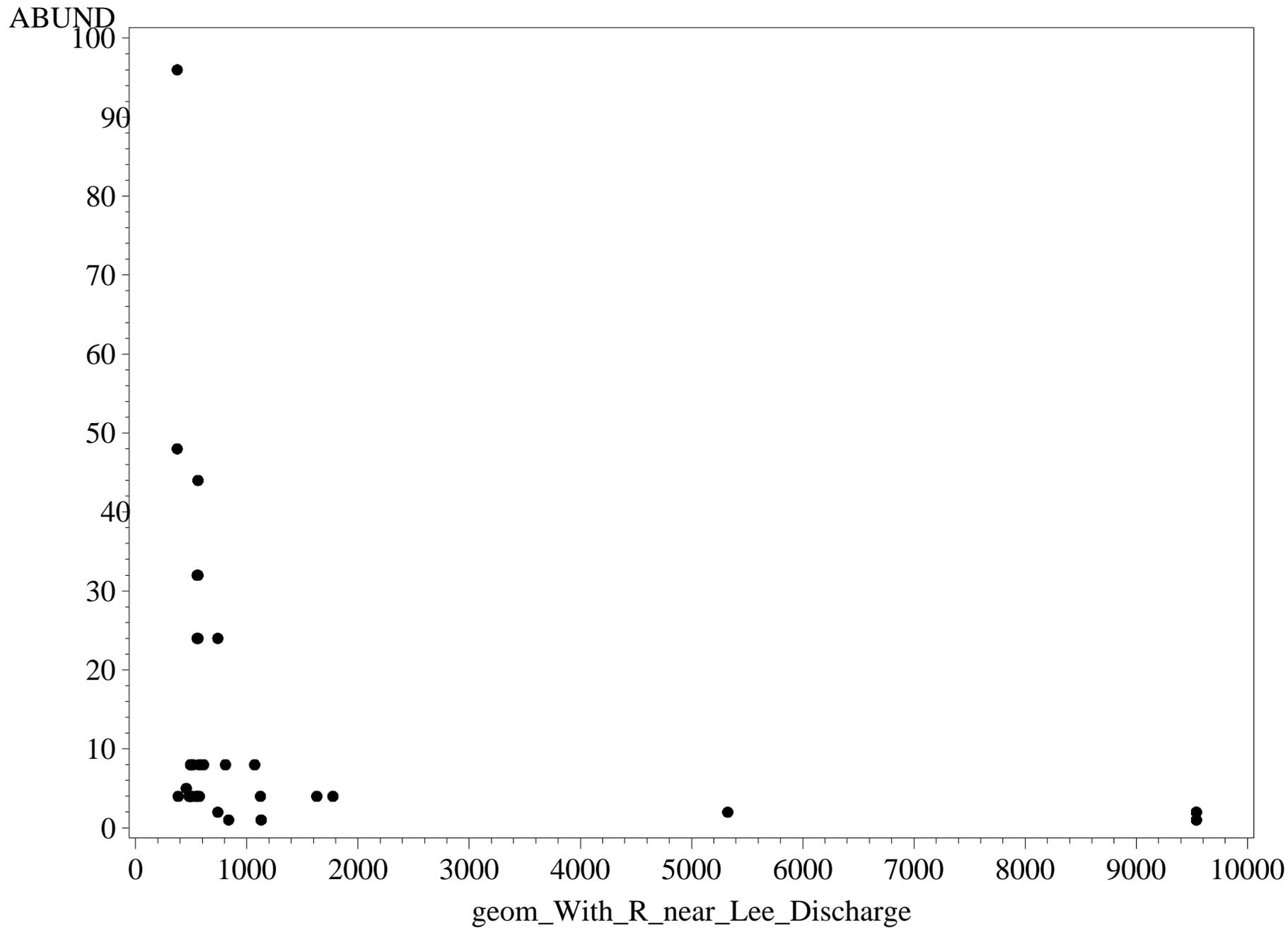
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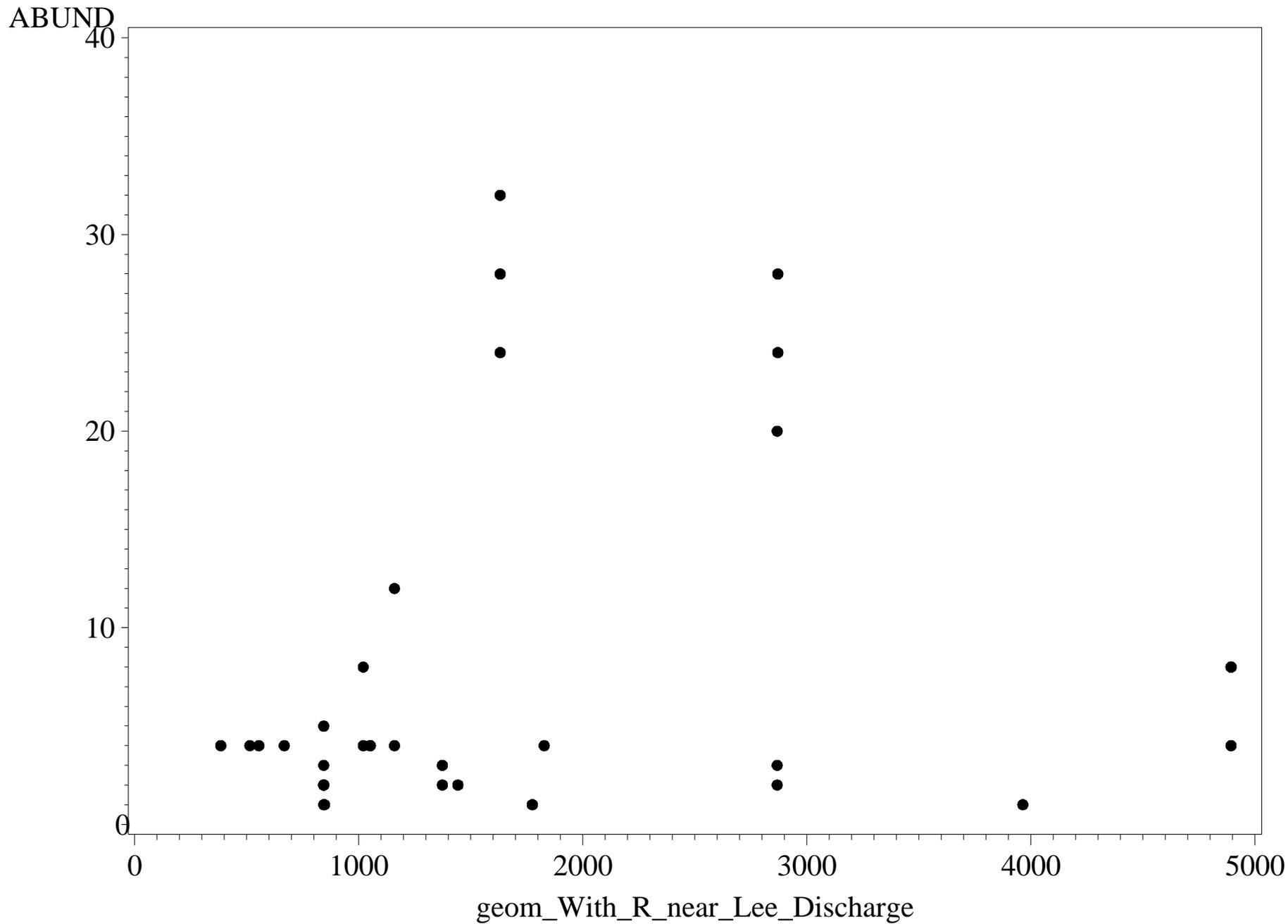
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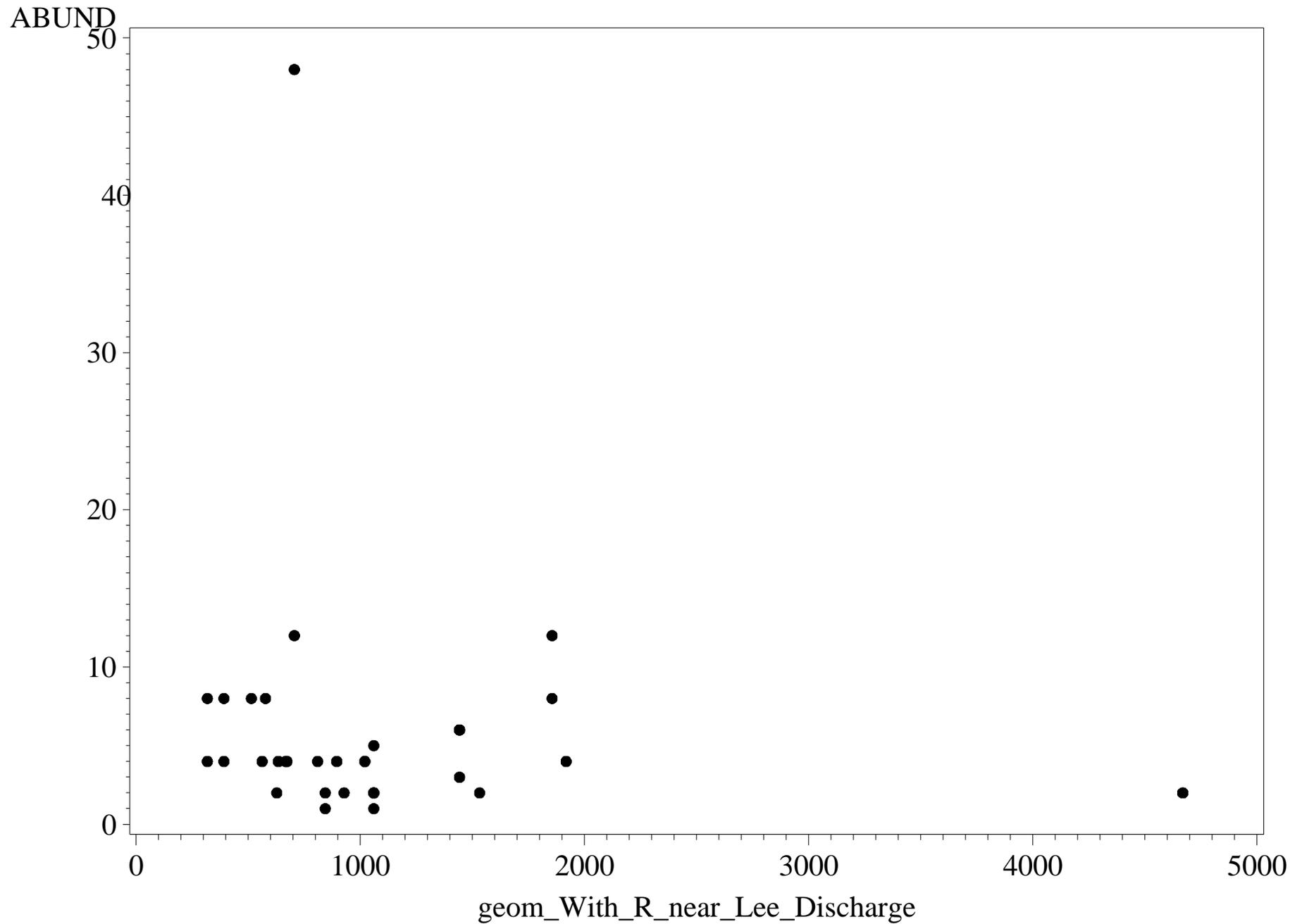
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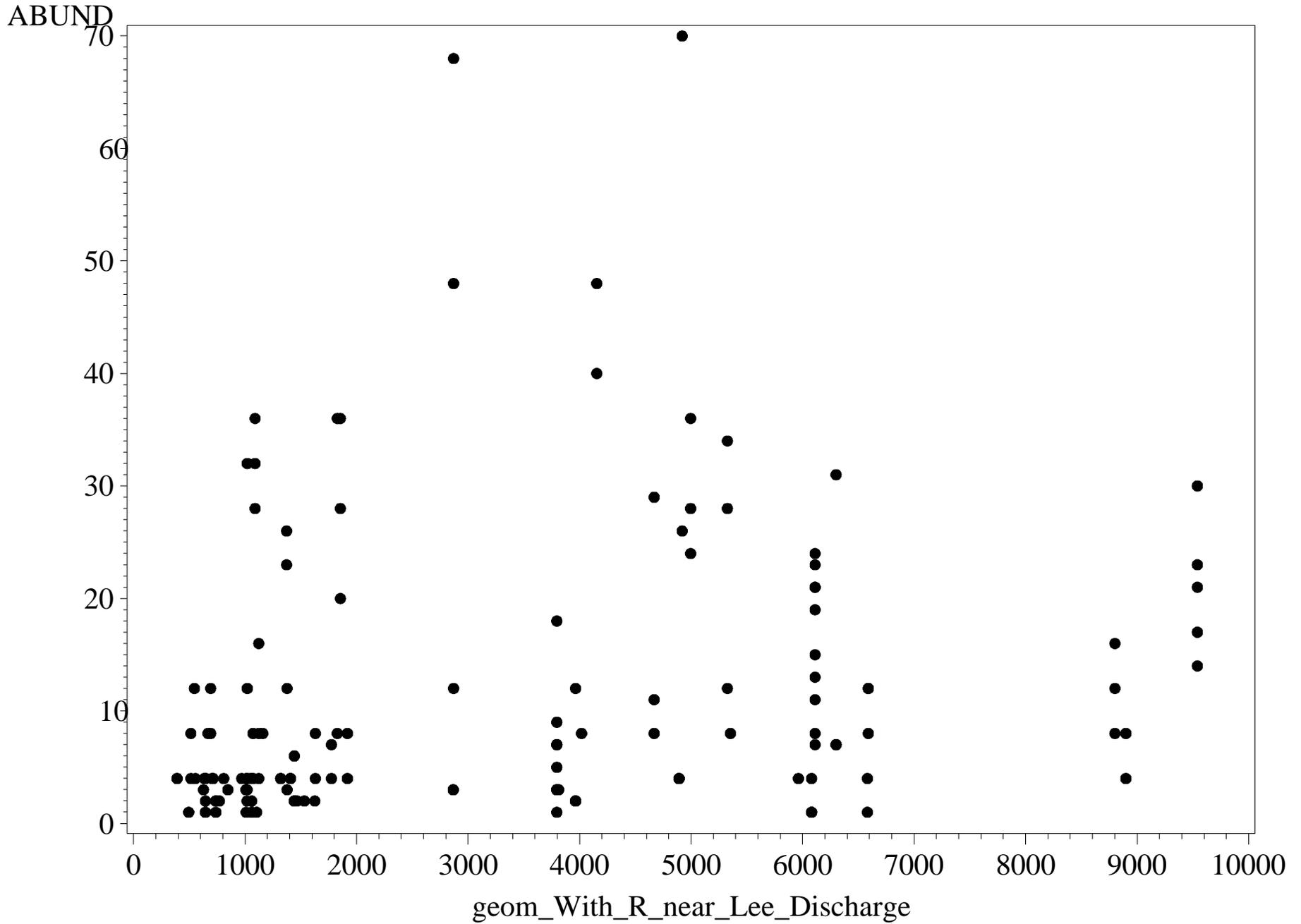
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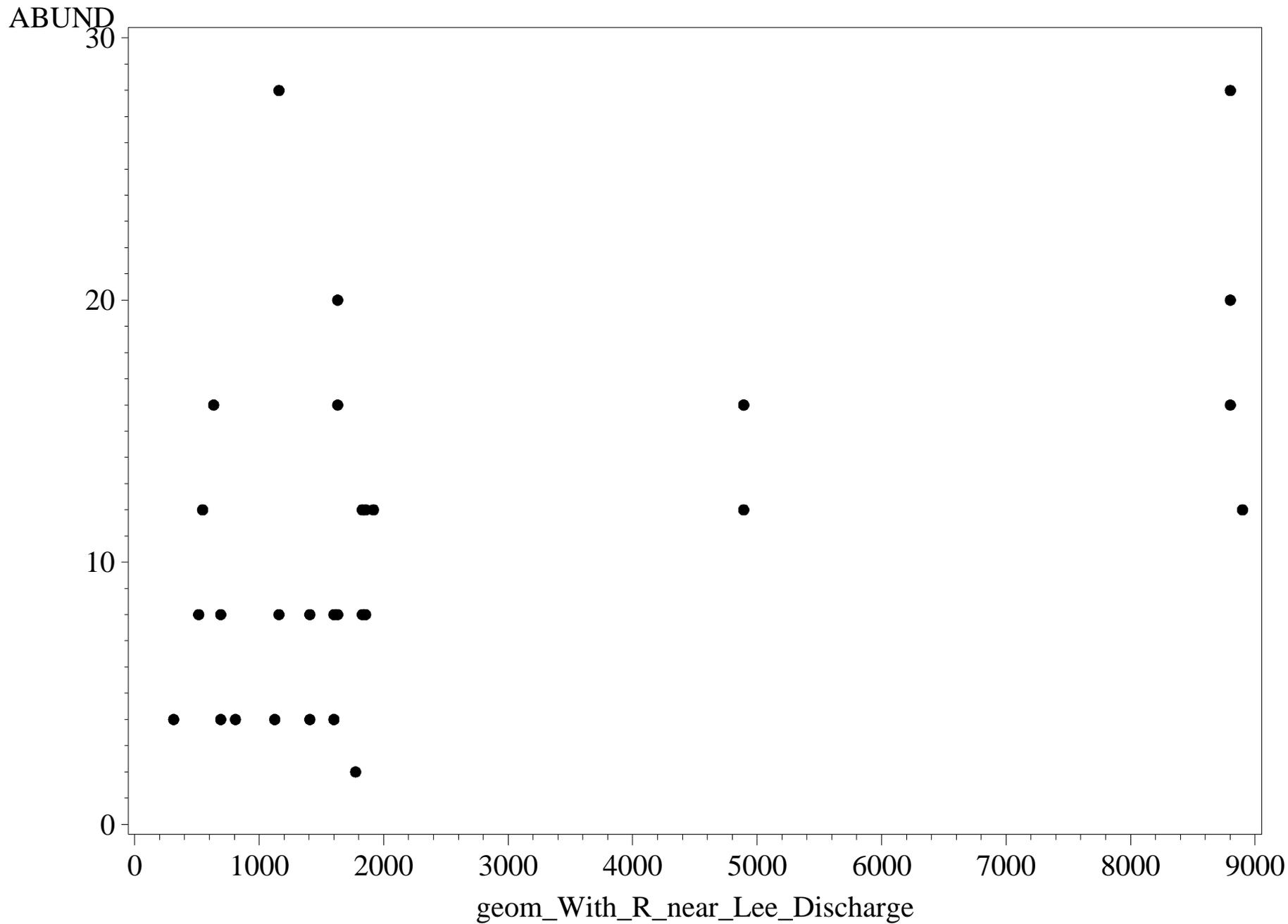
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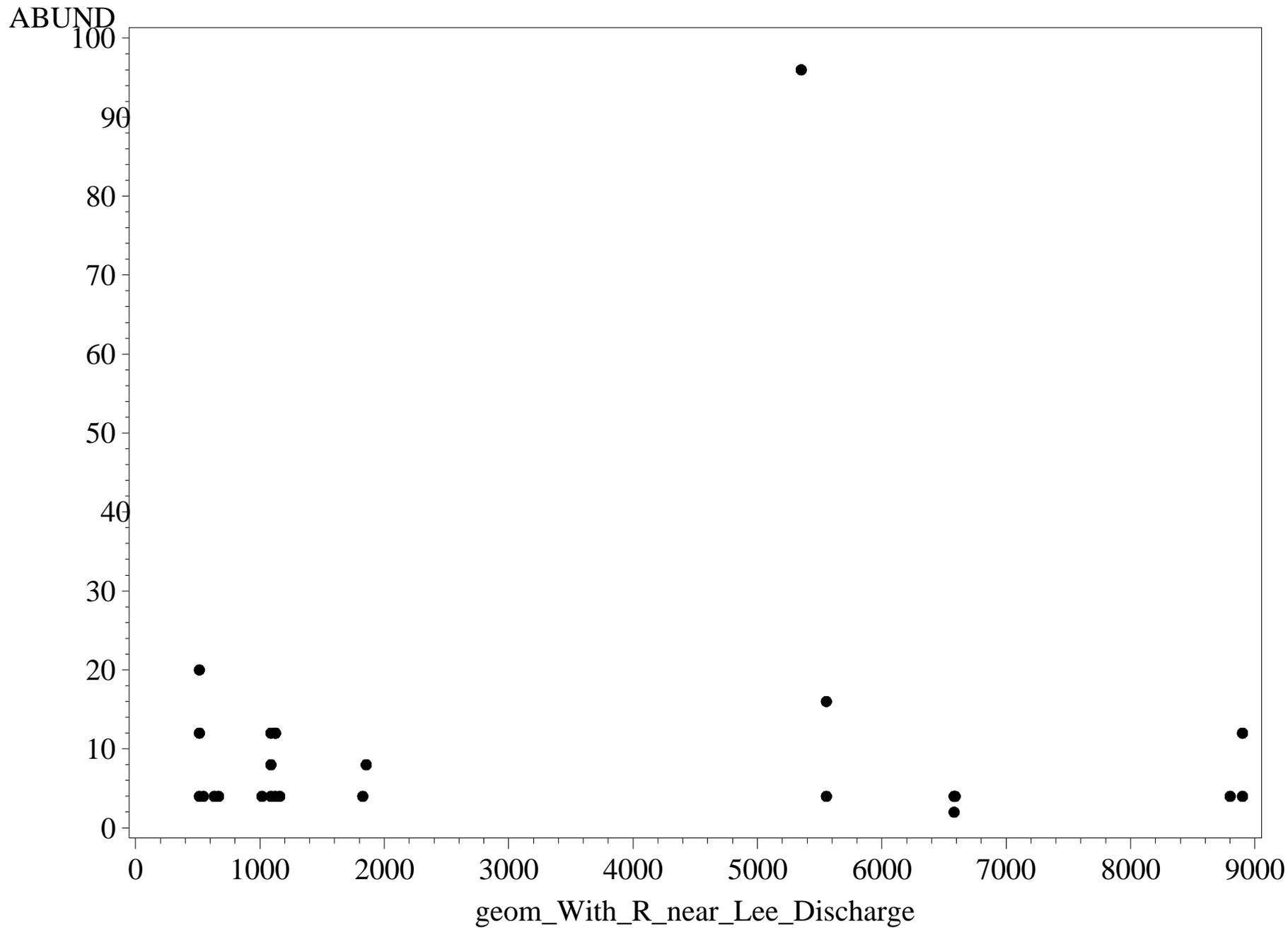
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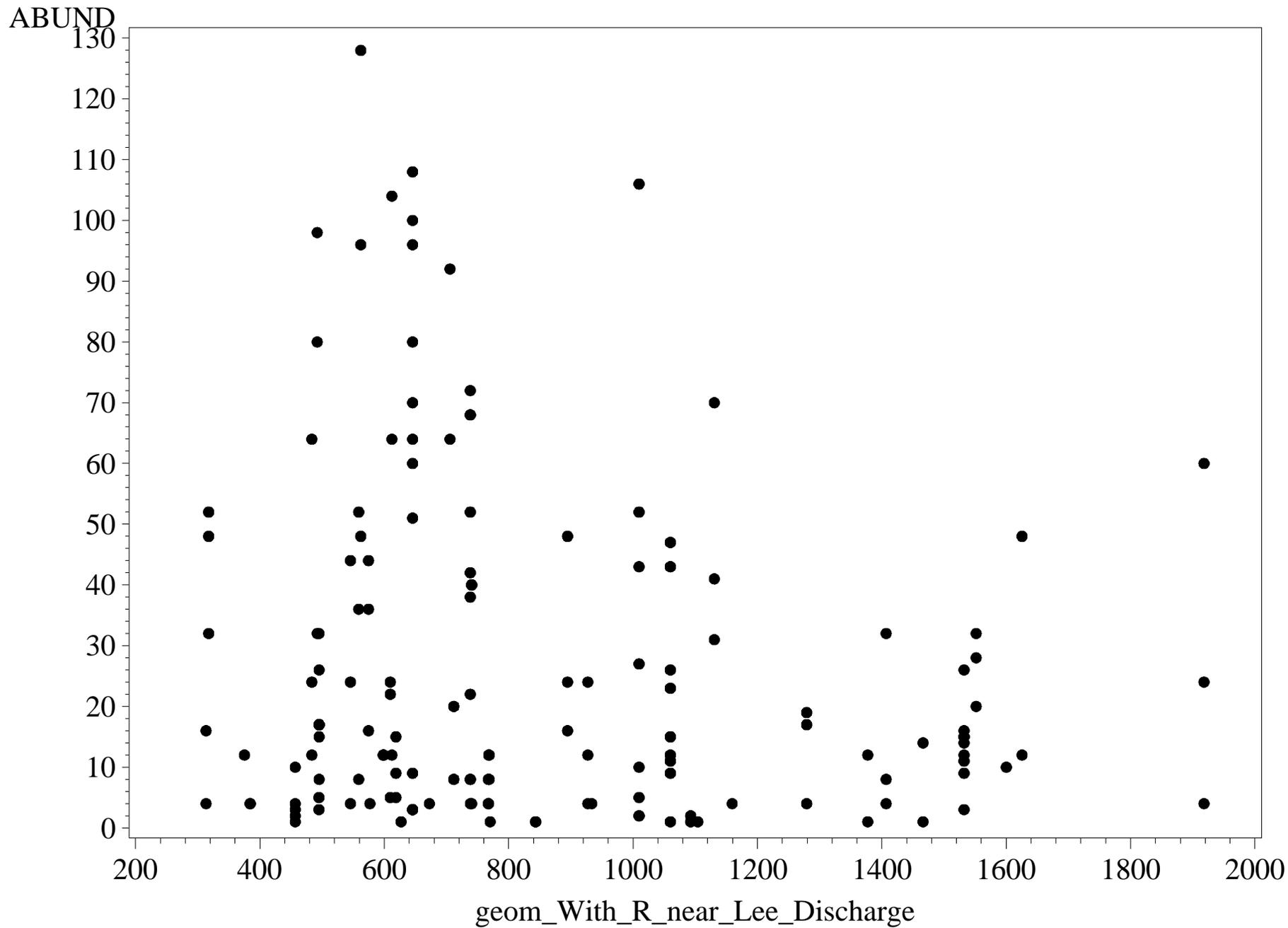
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name=THIENEMANNIELLA SP. B



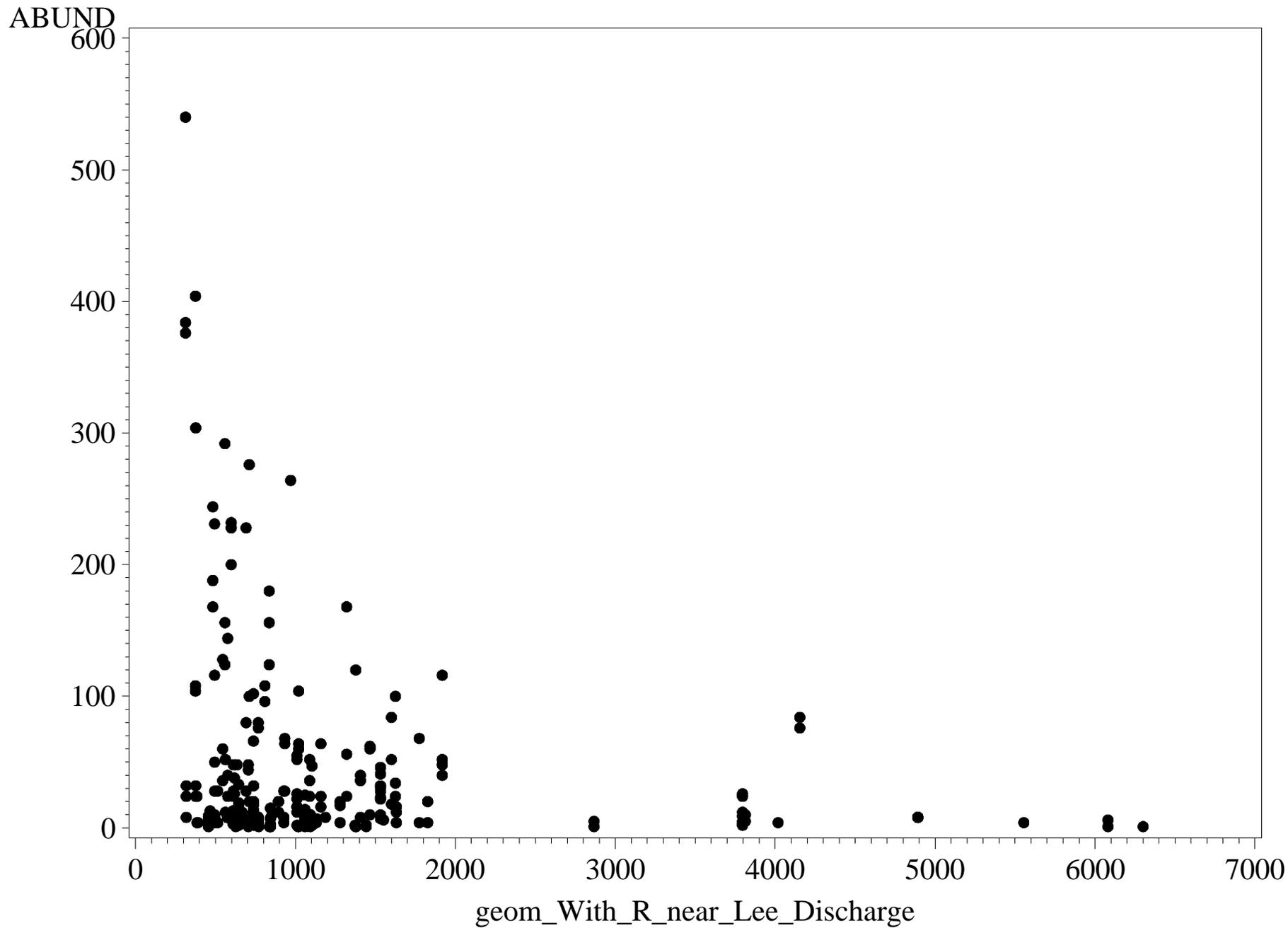
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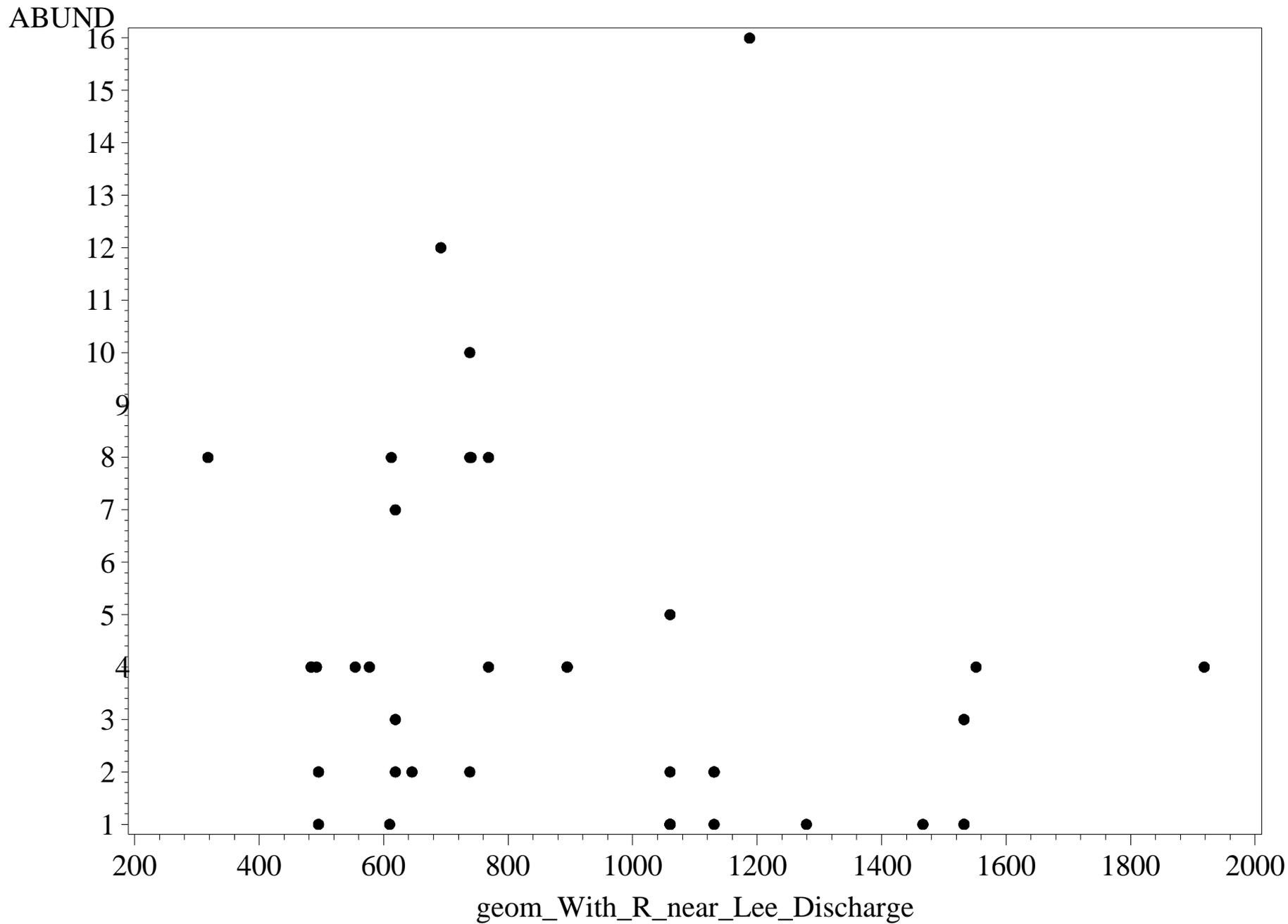
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name=TRIBELOS FUSCICORNE



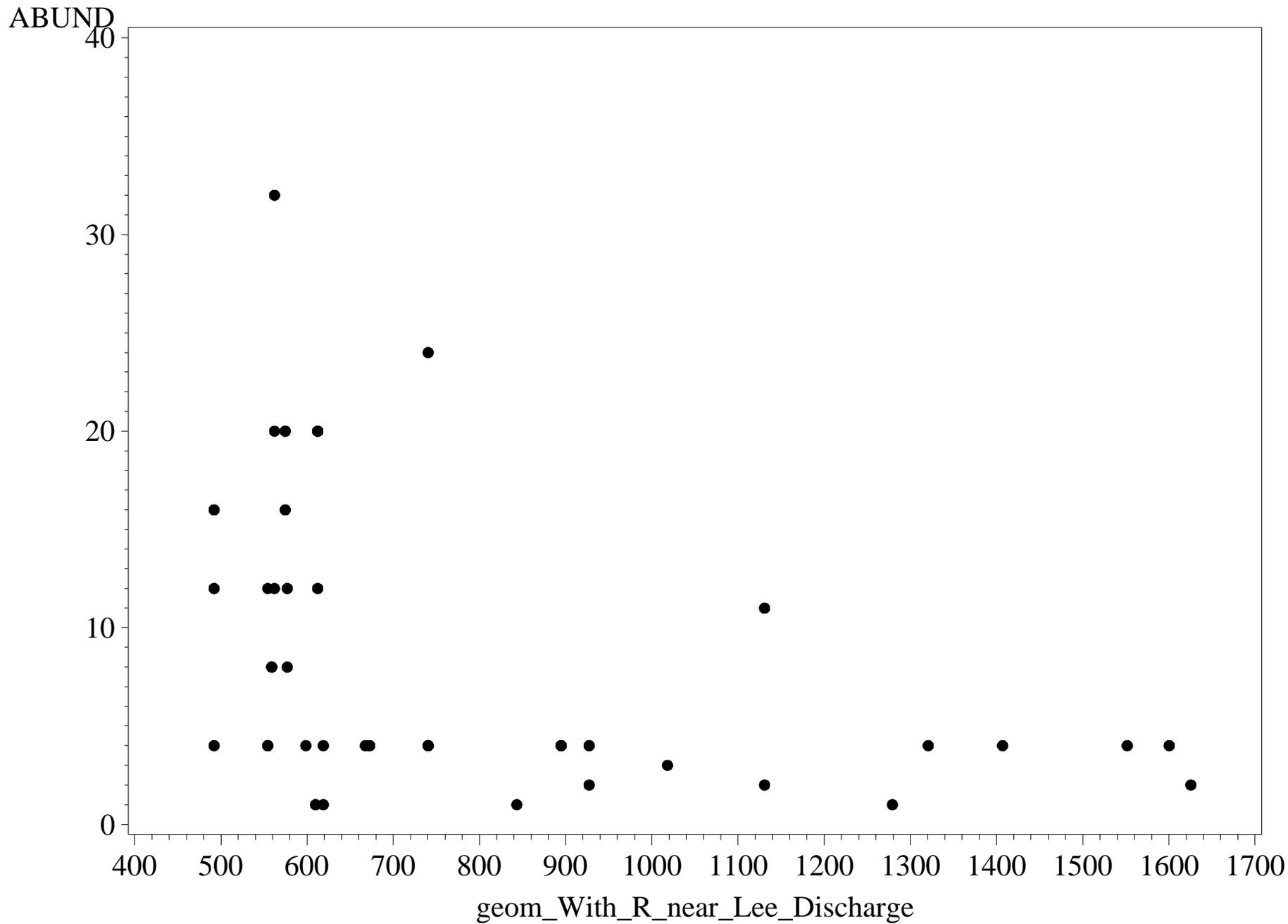
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name=TRICORYTHODES ALBILINEATU



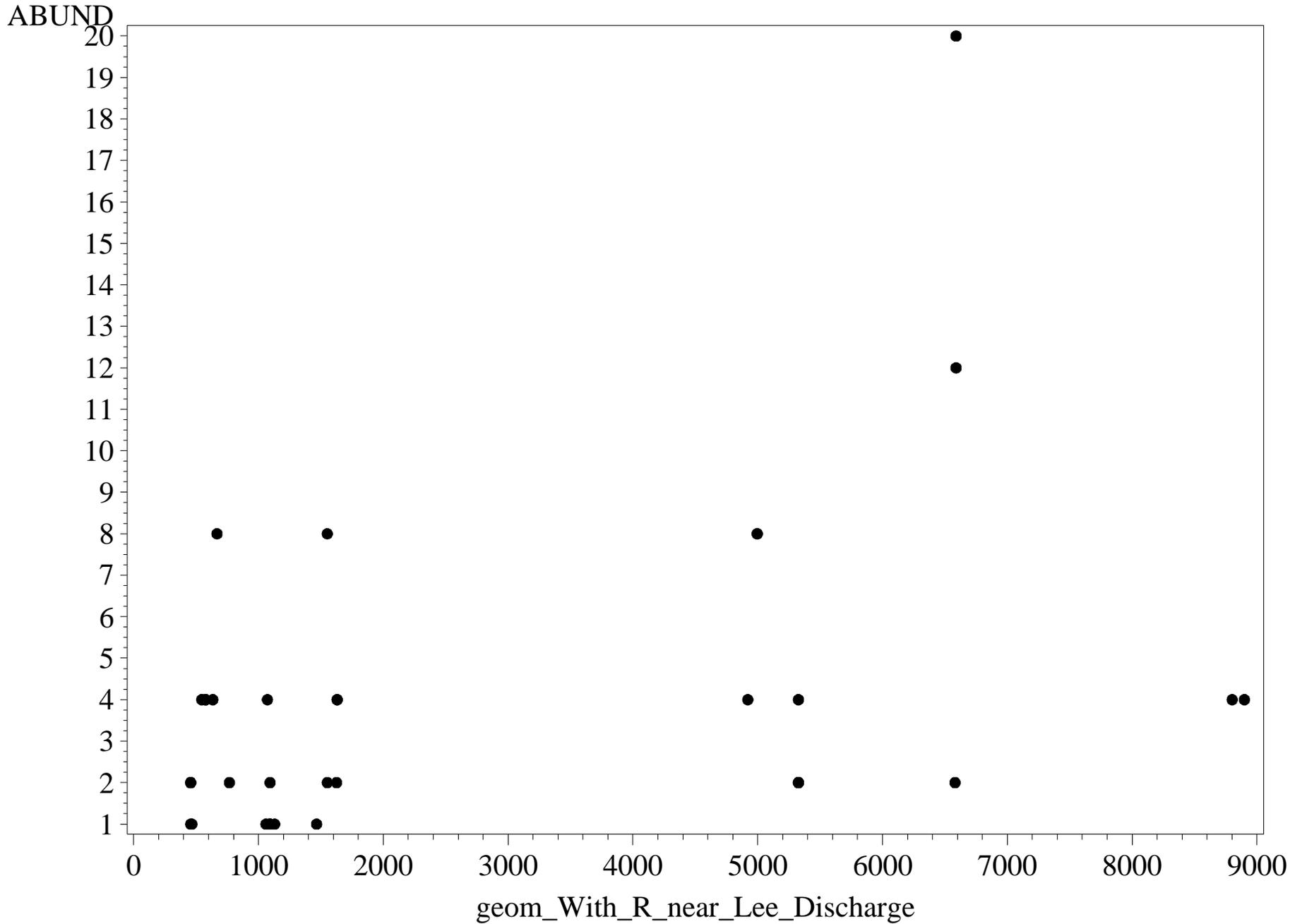
Individual Benthic Species vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)
name=UNID CERATOPOGONID SP.



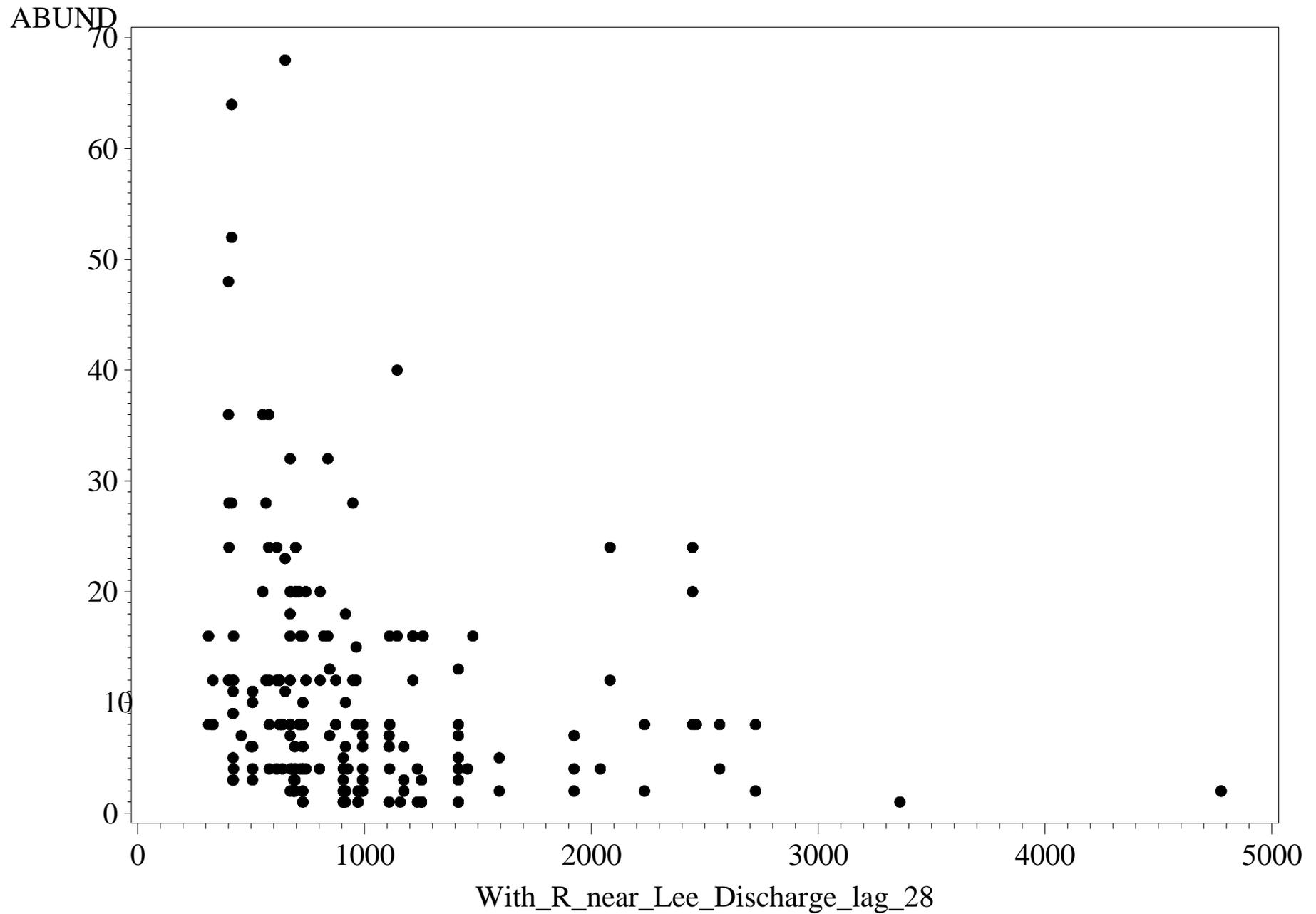
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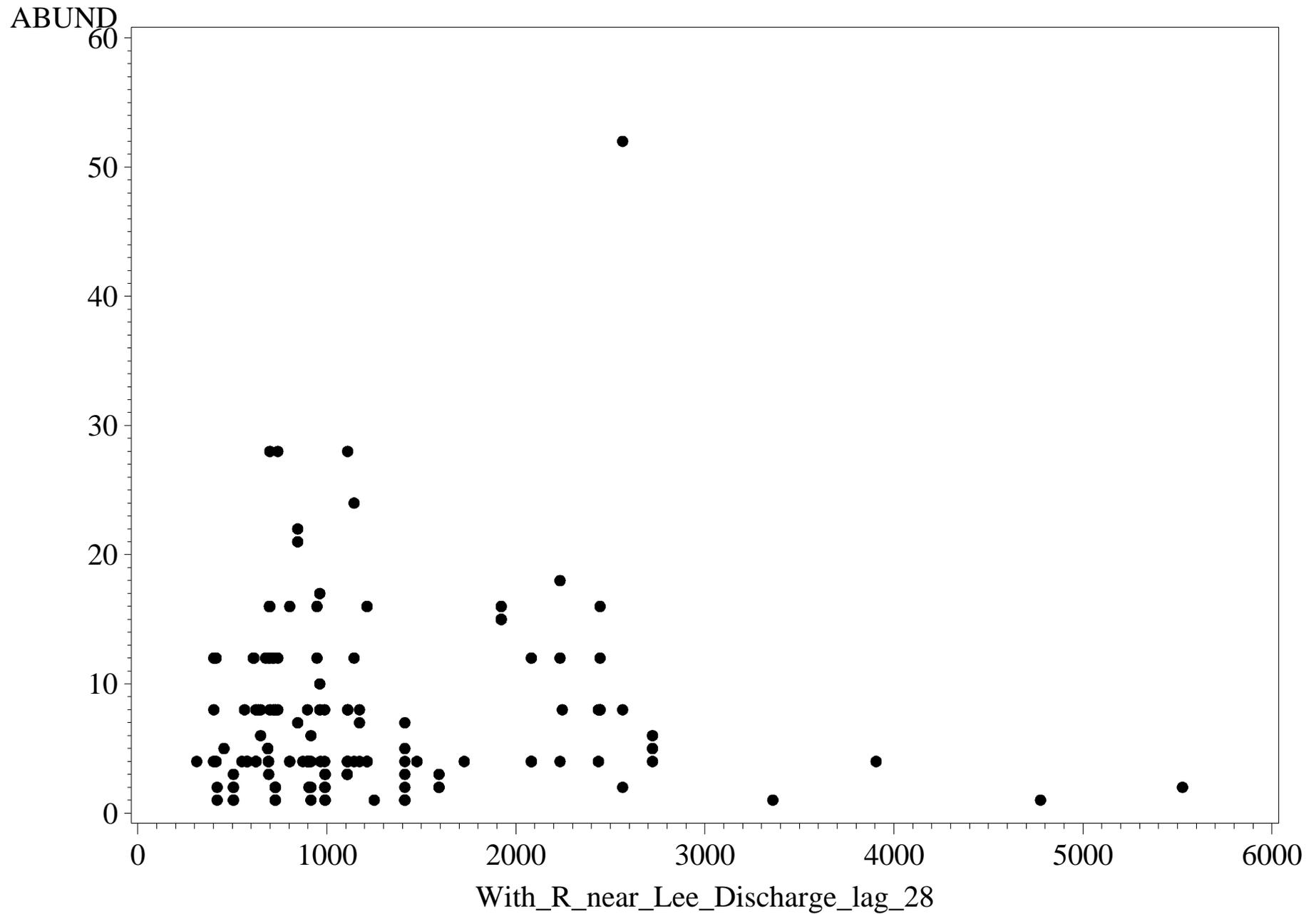
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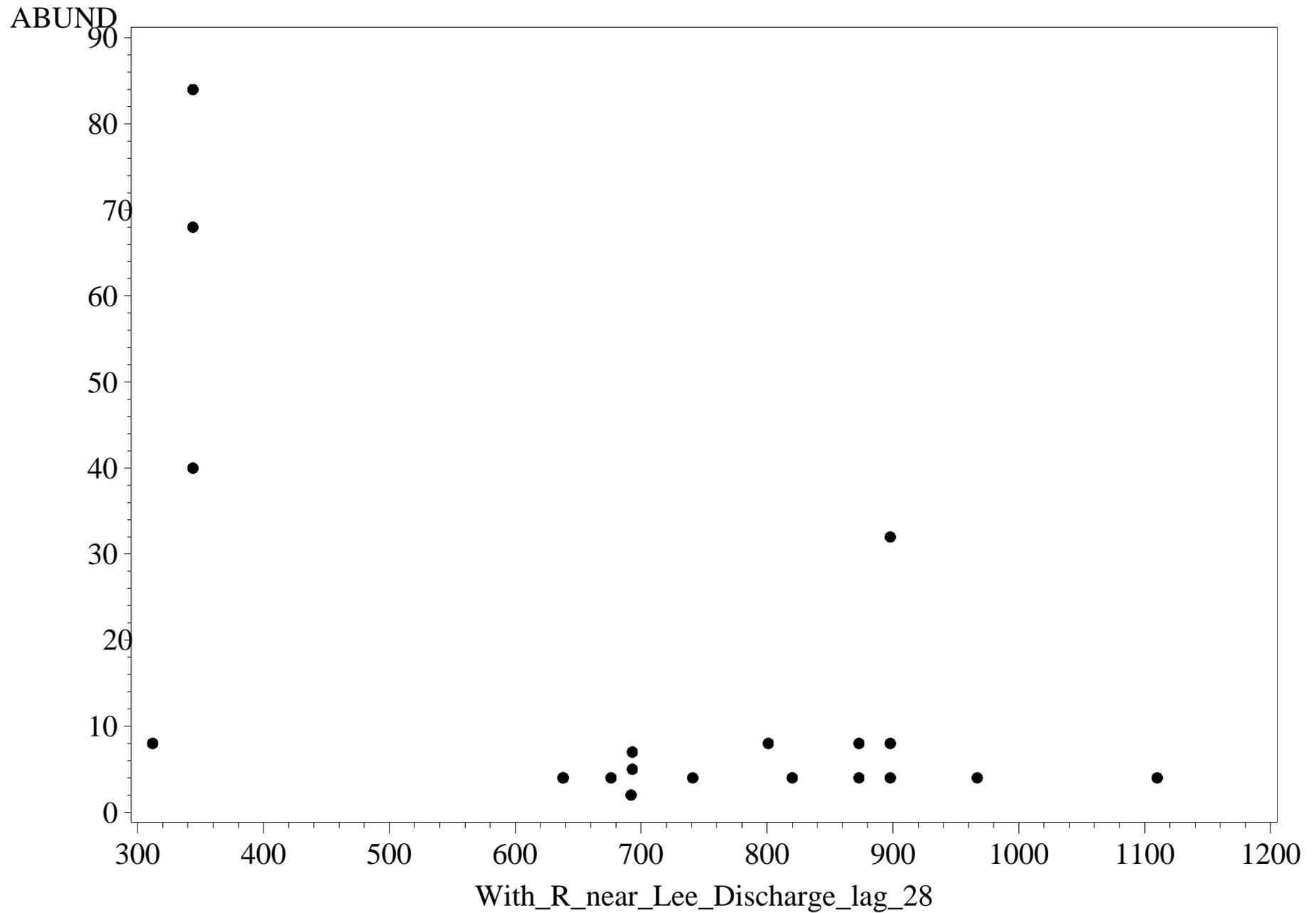
Individual Benthic Species vs. 28 Day Lag of Estimated Withlacoochee Flow (at Lee)
name=ABLABESMYIA MALLOCHI



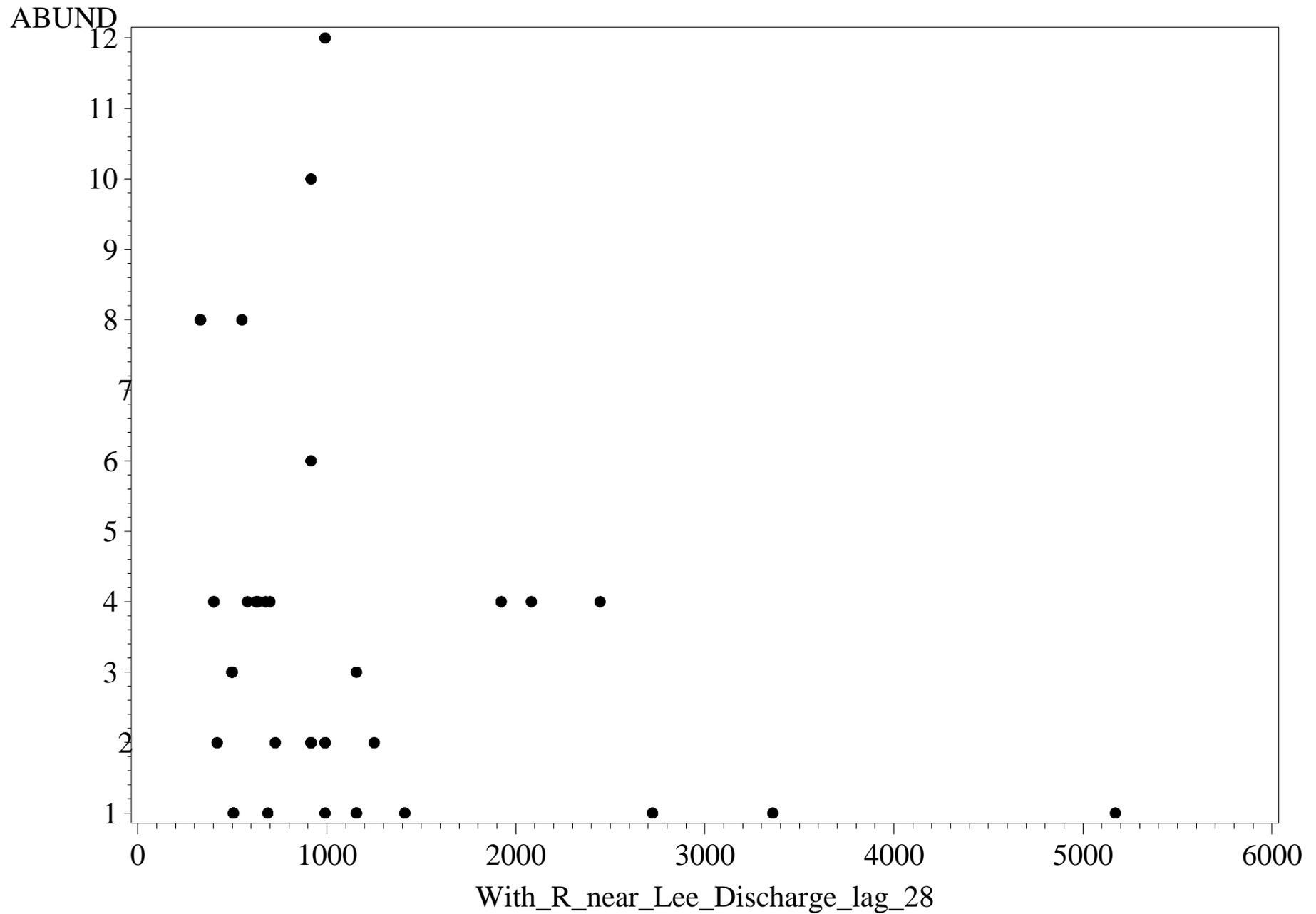
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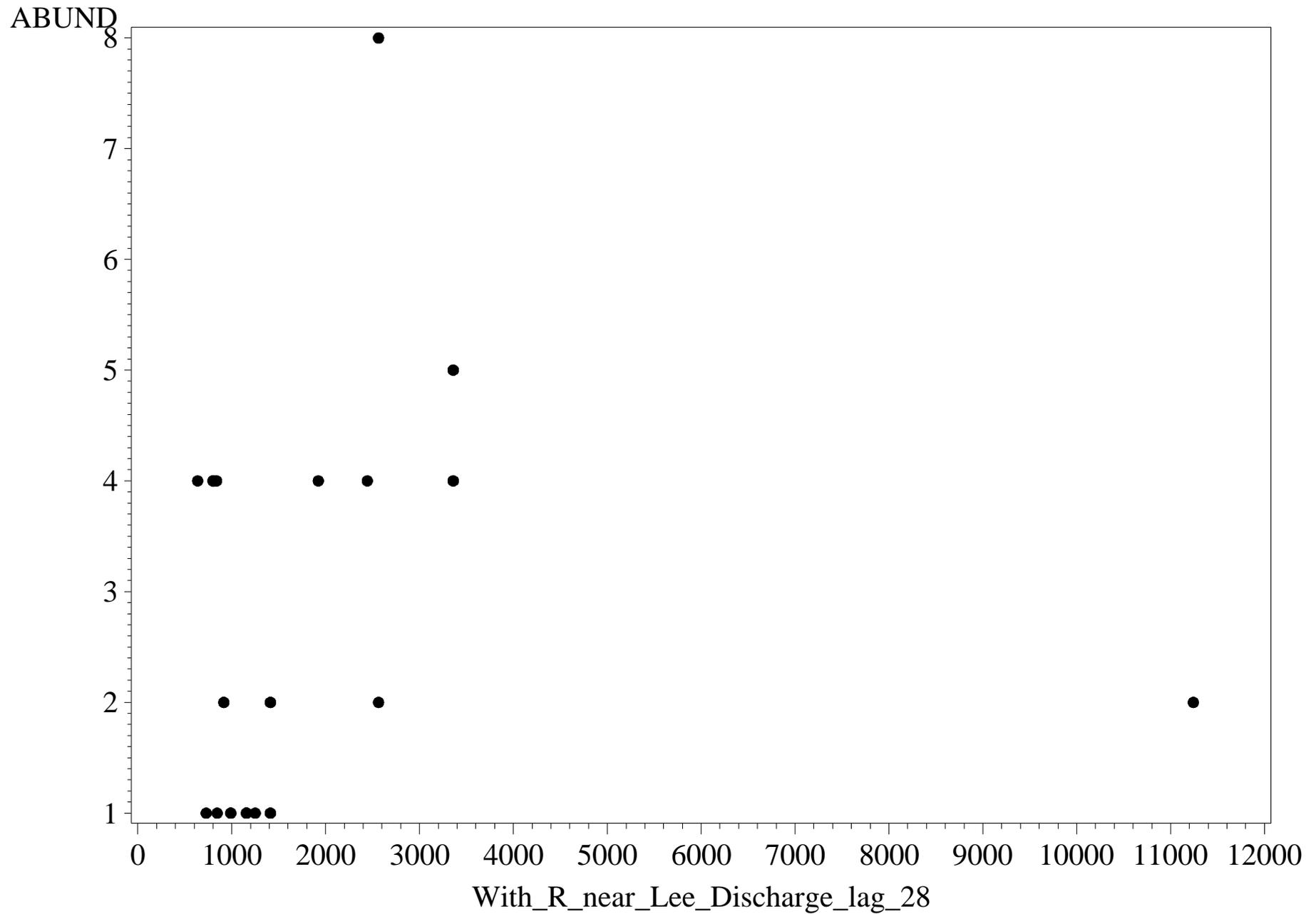
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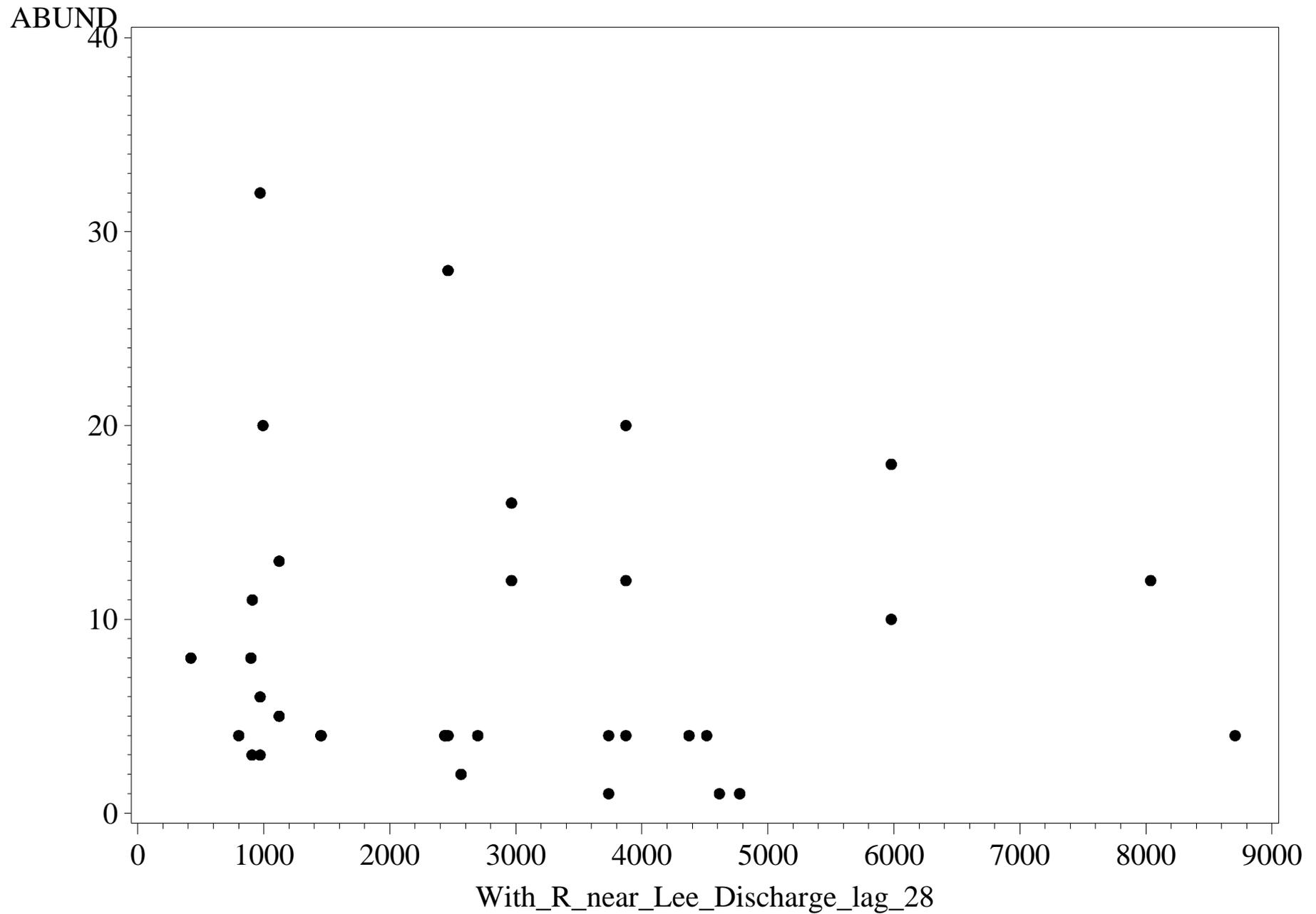
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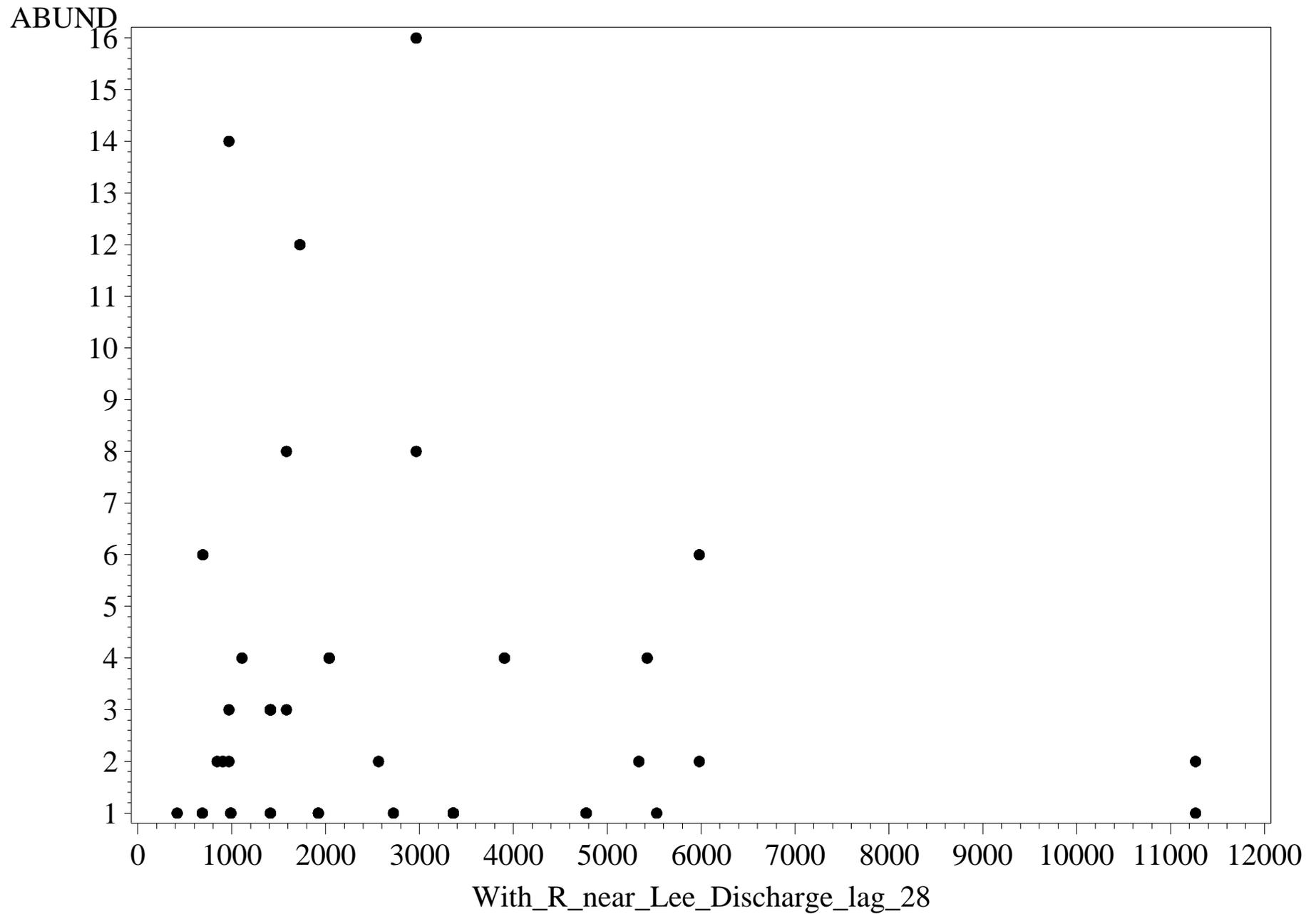
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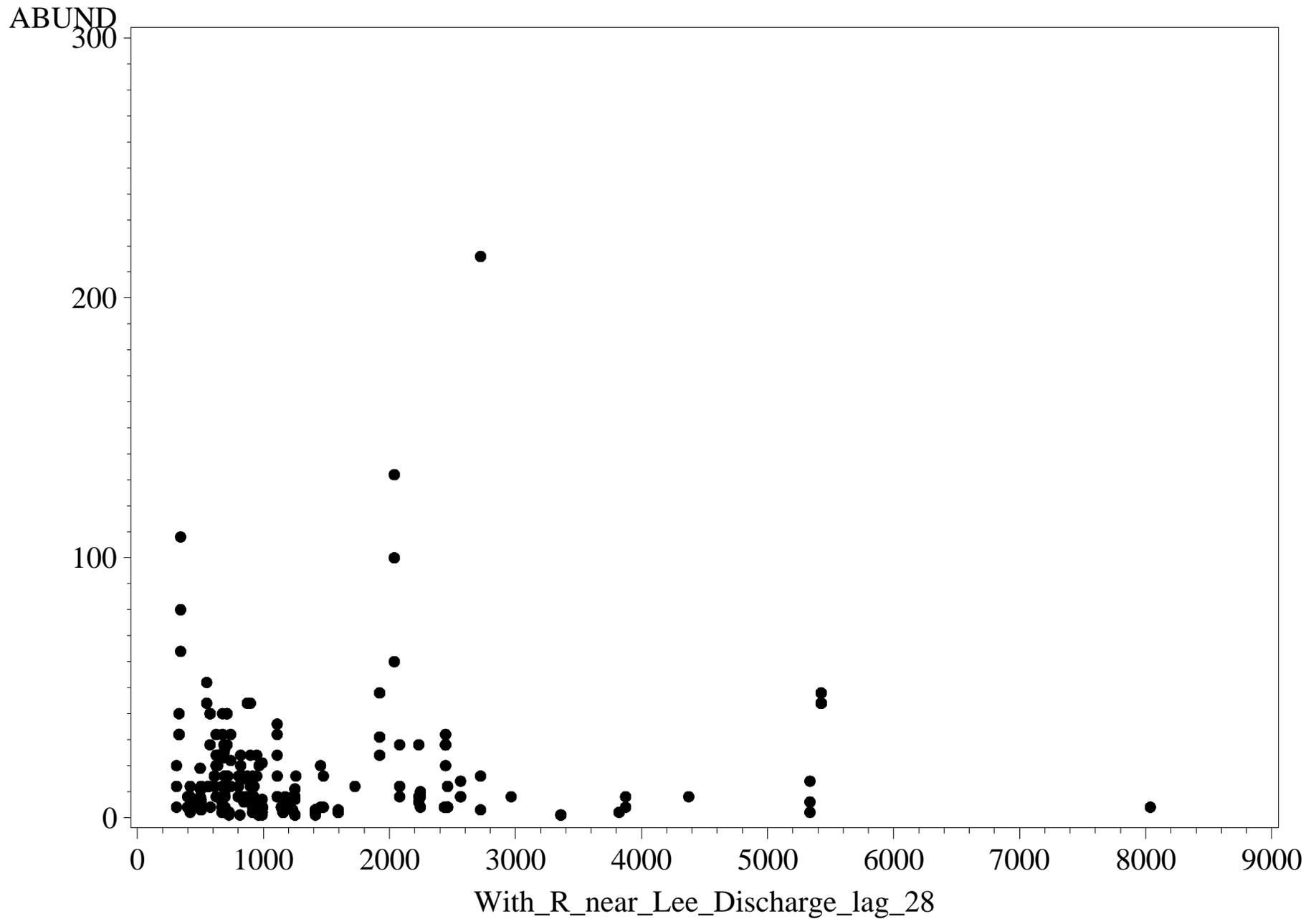
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name=BAETIS INTERCALARI



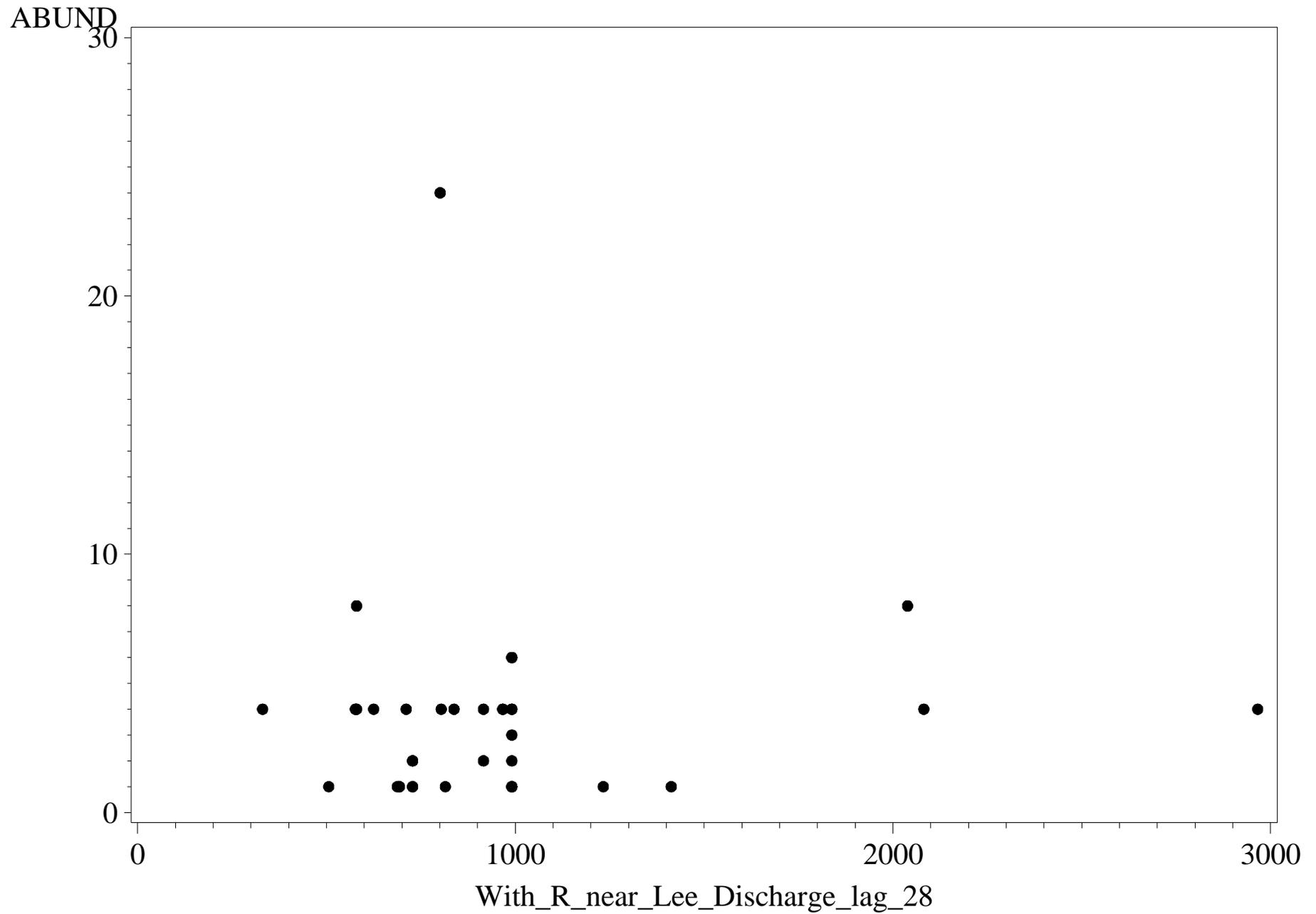
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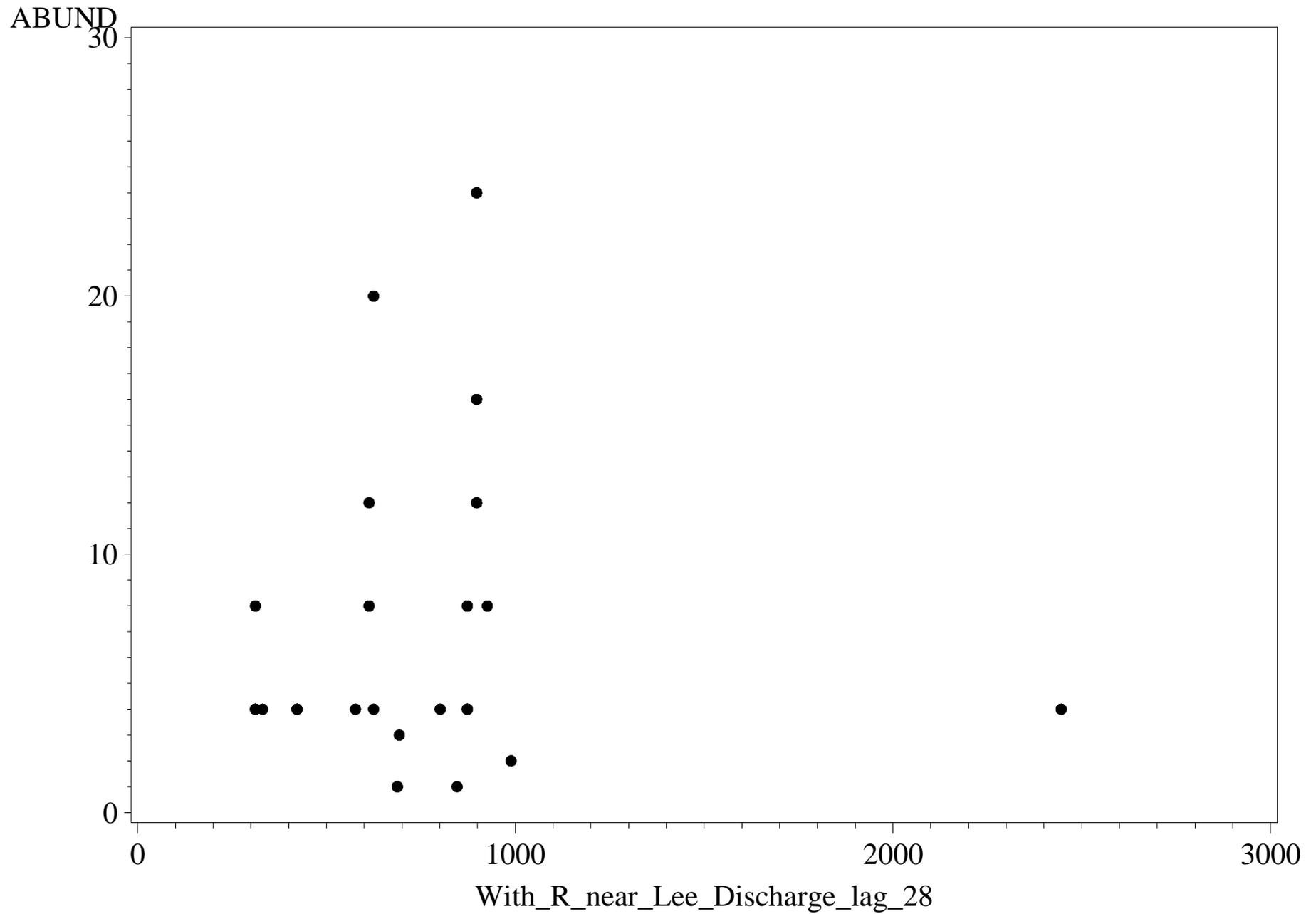
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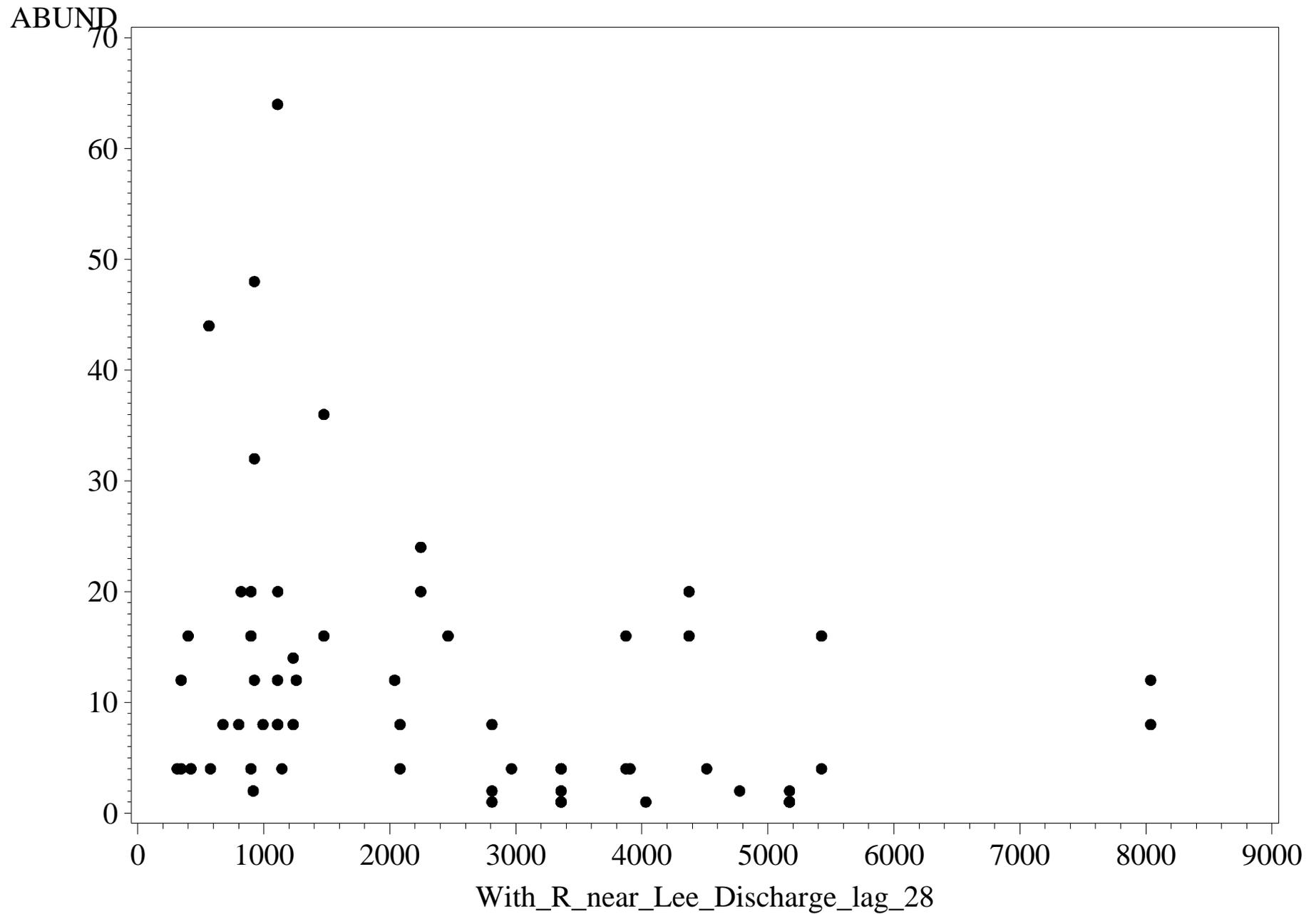
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name=CAENIS SP.



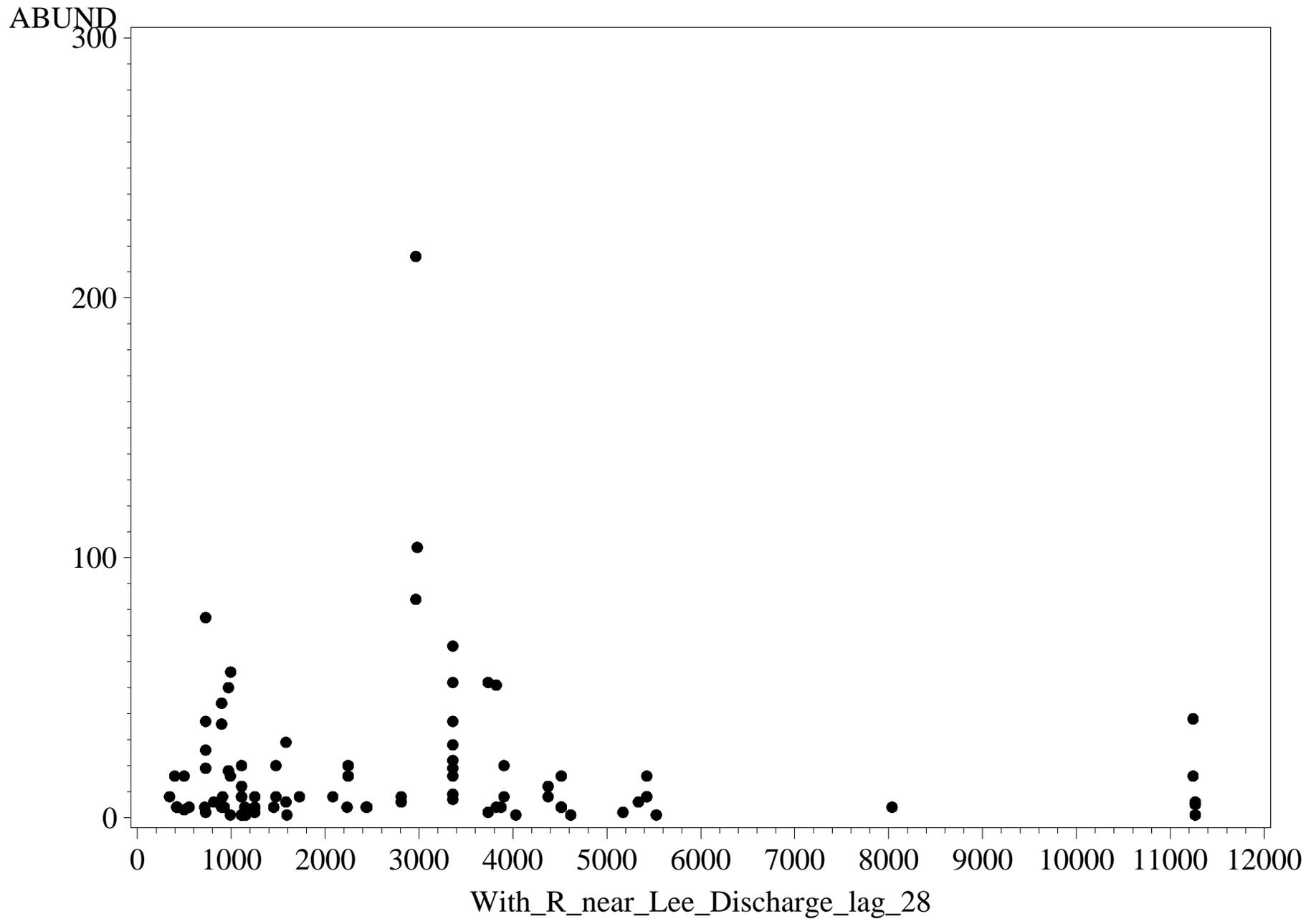
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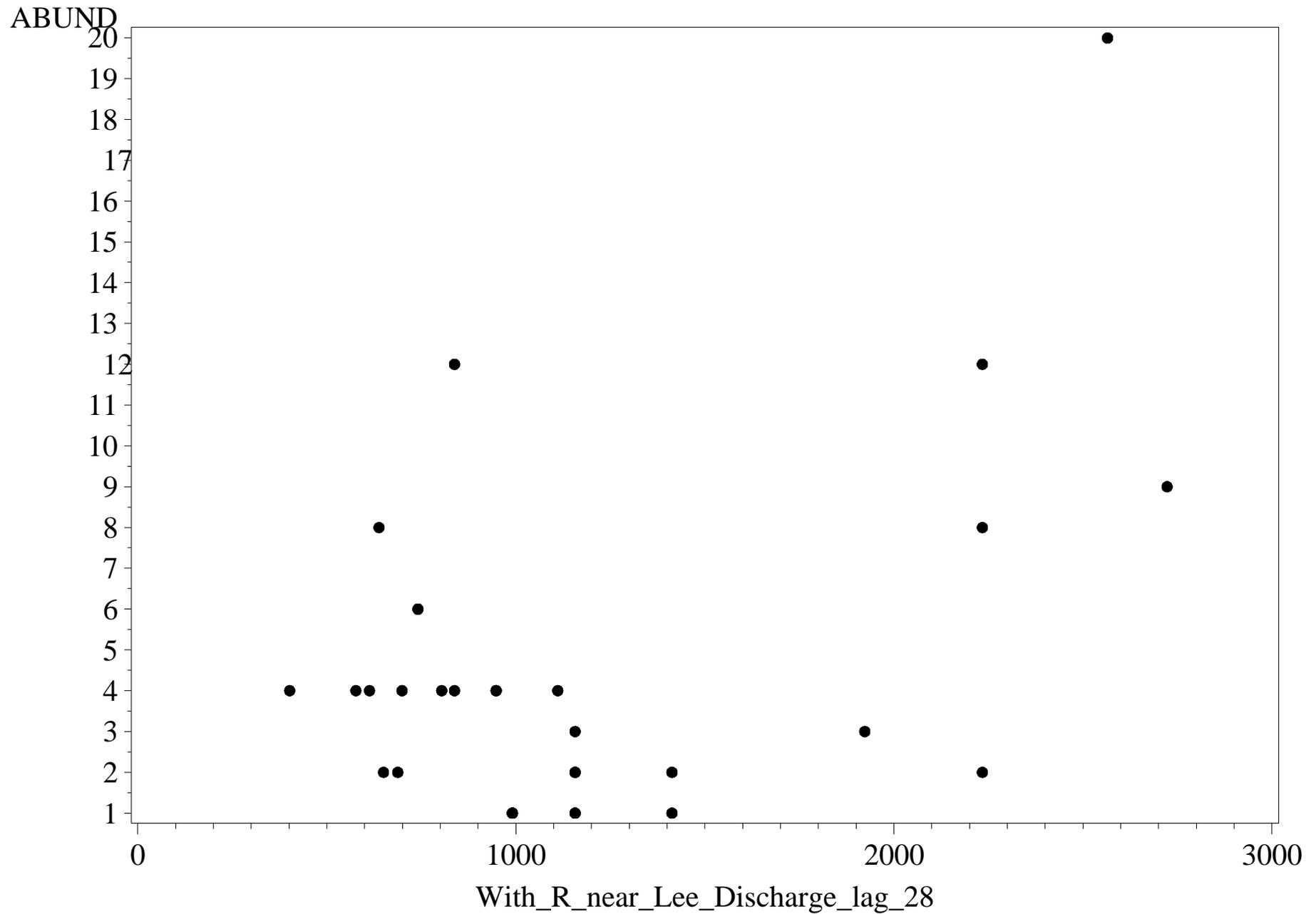
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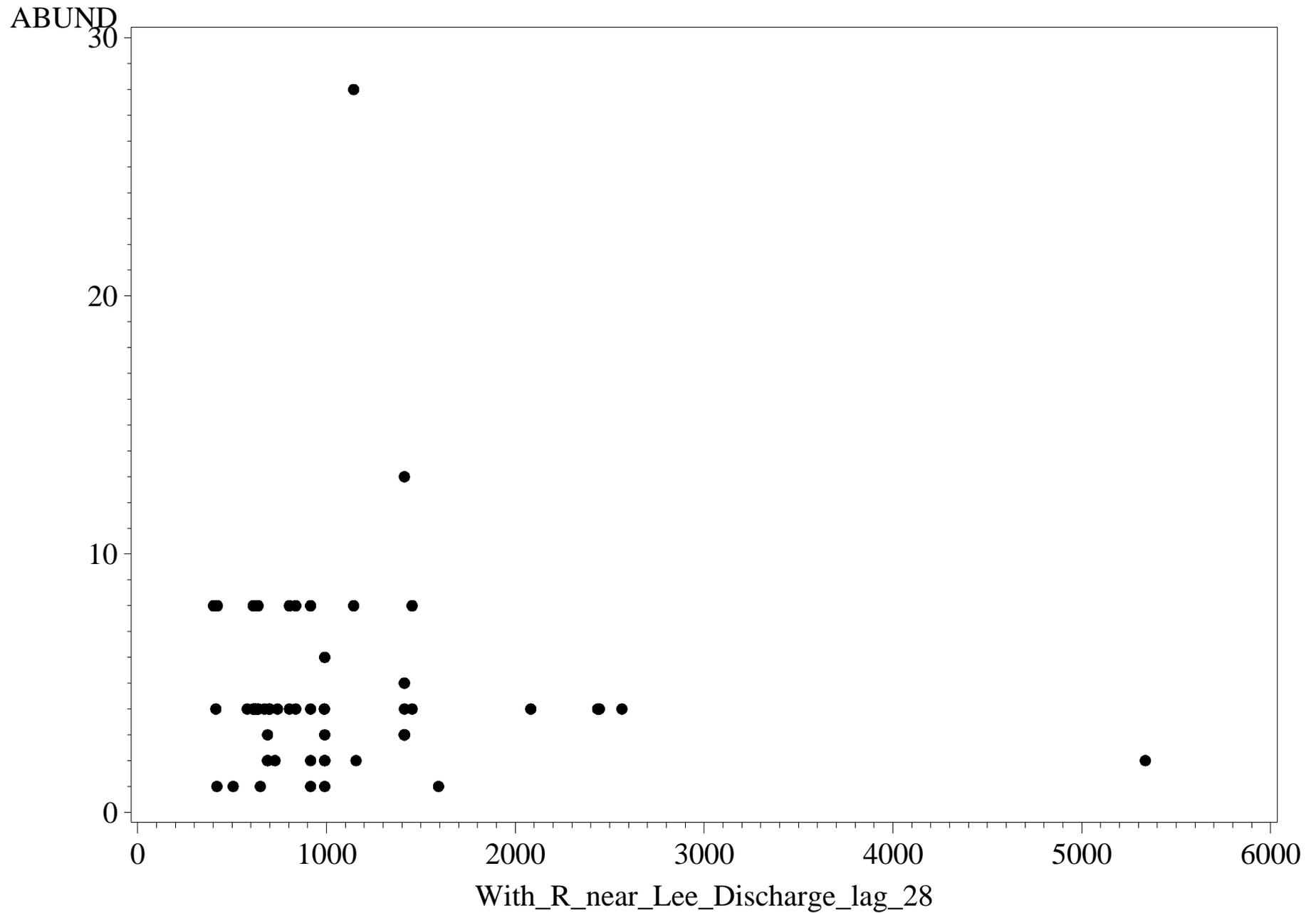
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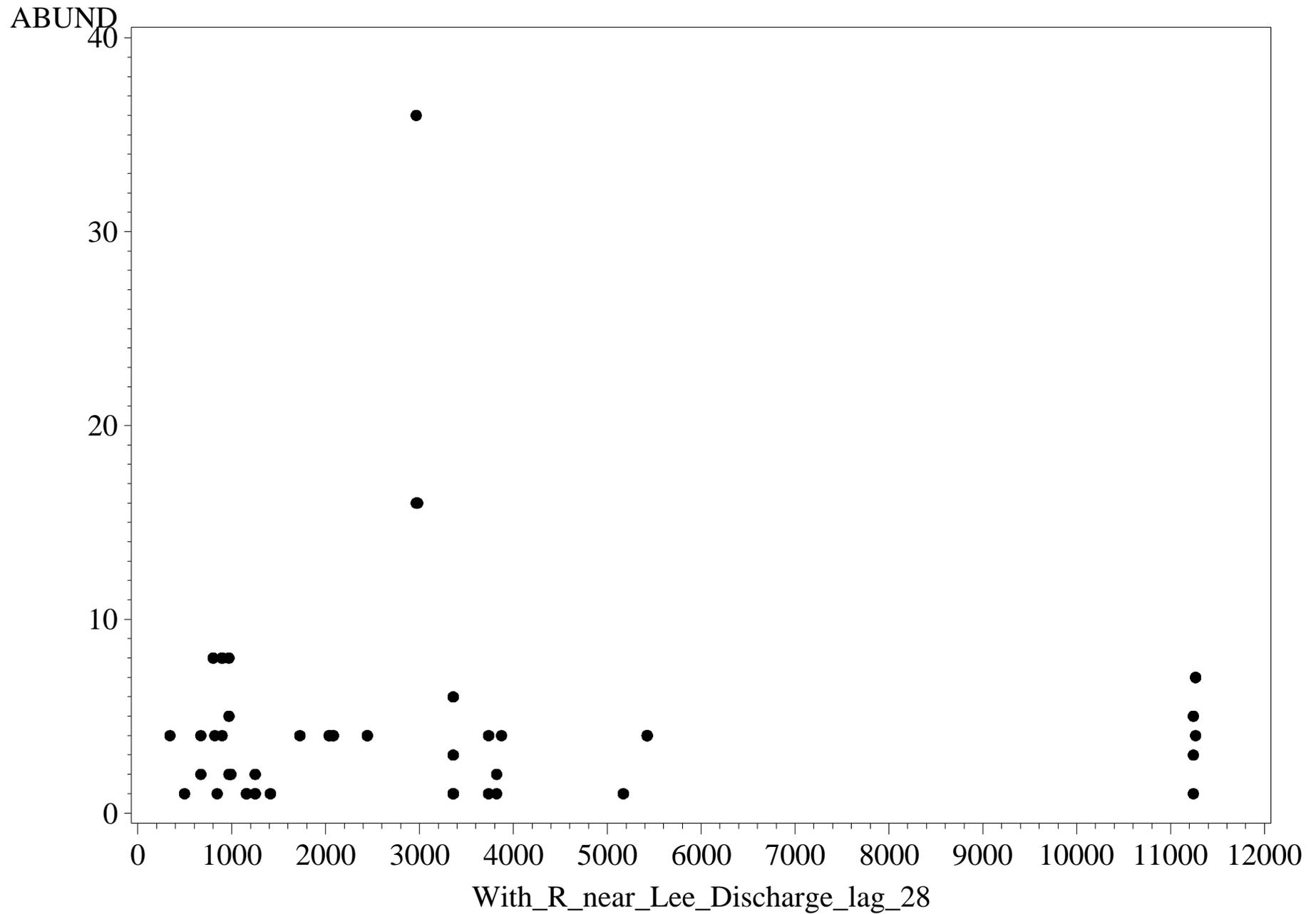
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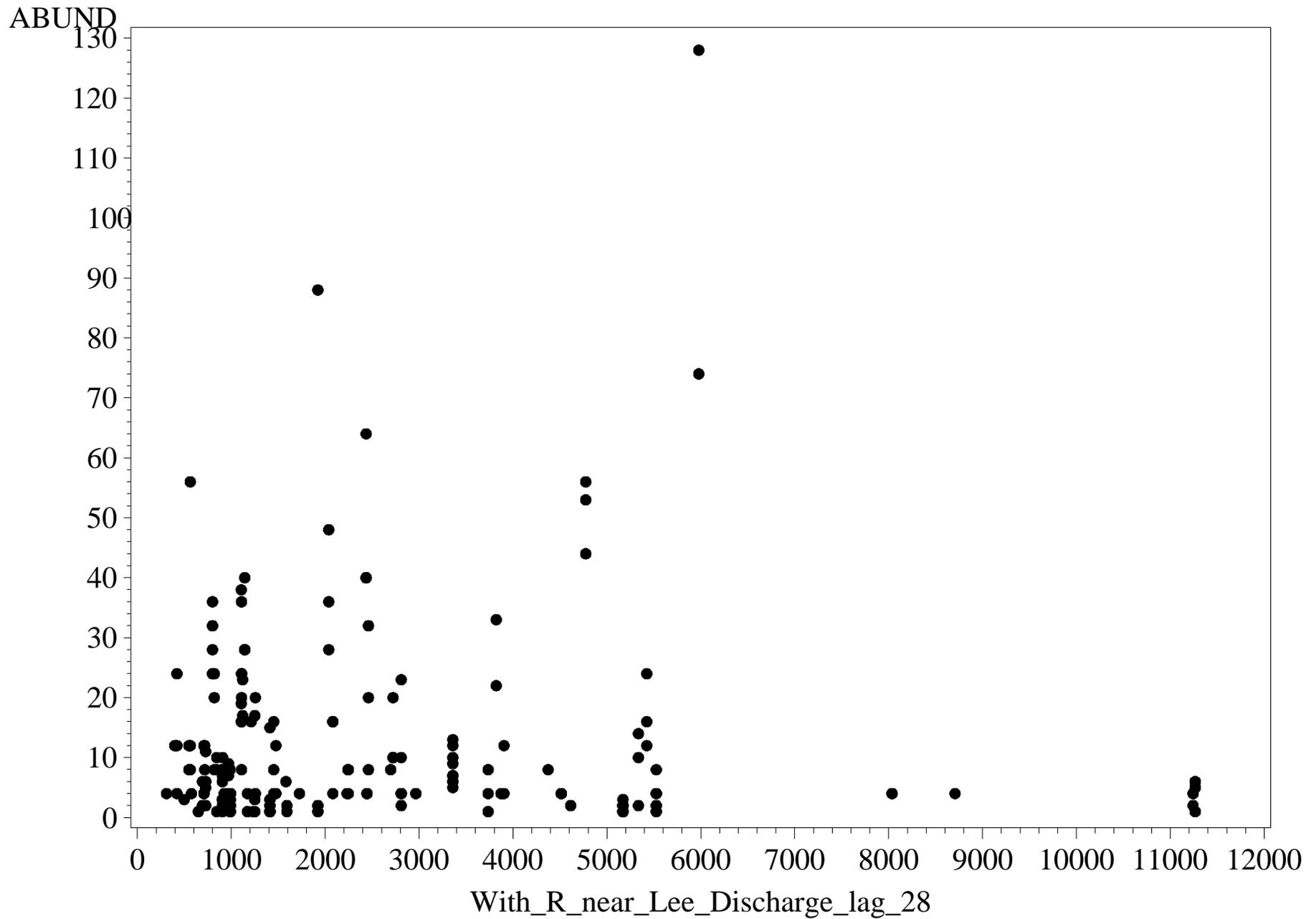
Individual Benthic Species vs. 28 Day Lag of Estimated Withlacoochee Flow (at Lee)
name=CLADOTANYTARSUS SP.



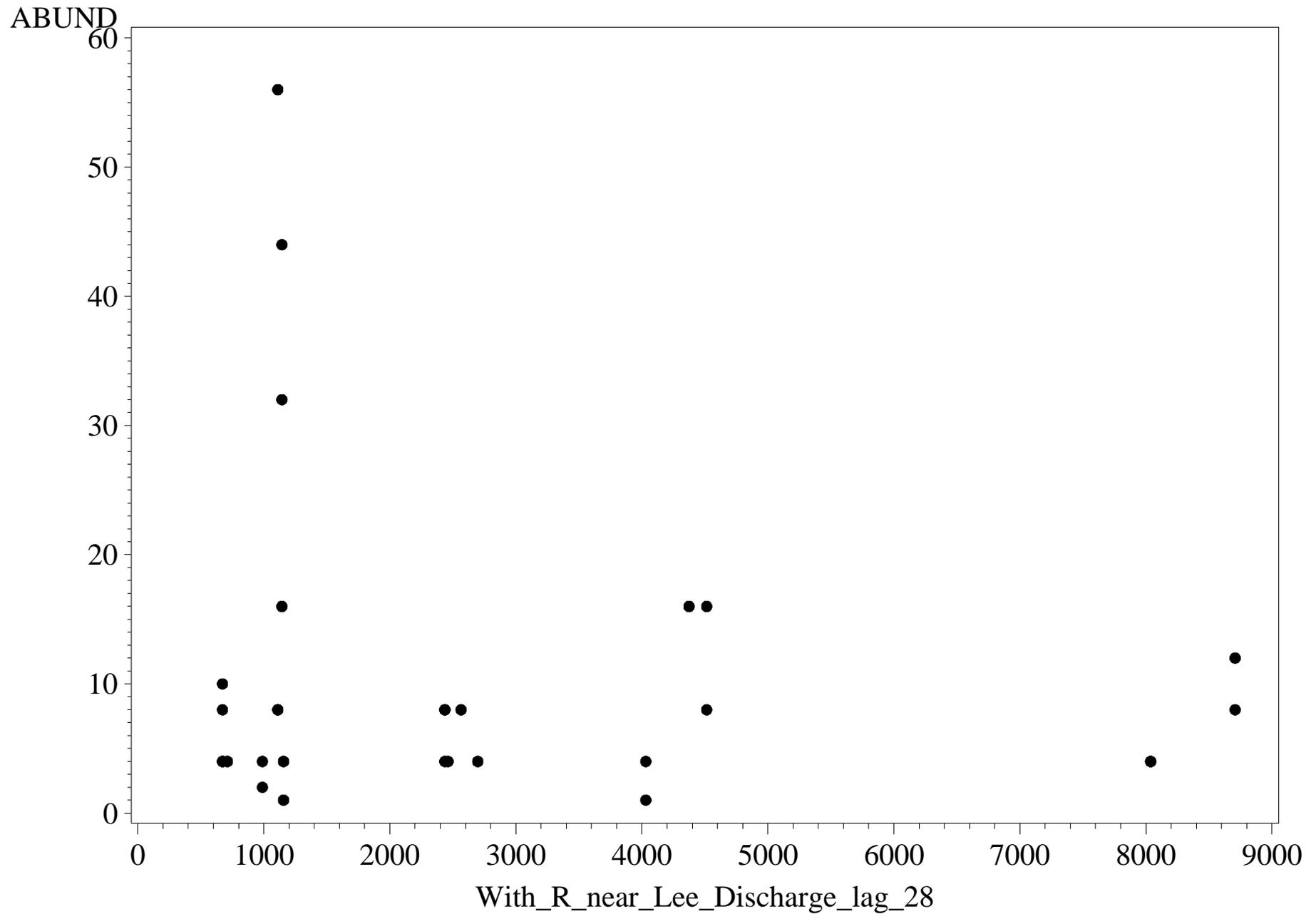
Individual Benthic Species vs. 28 Day Lag of Estimated Withlacoochee Flow (at Lee)
name=CORYDALUS CORNUTUS



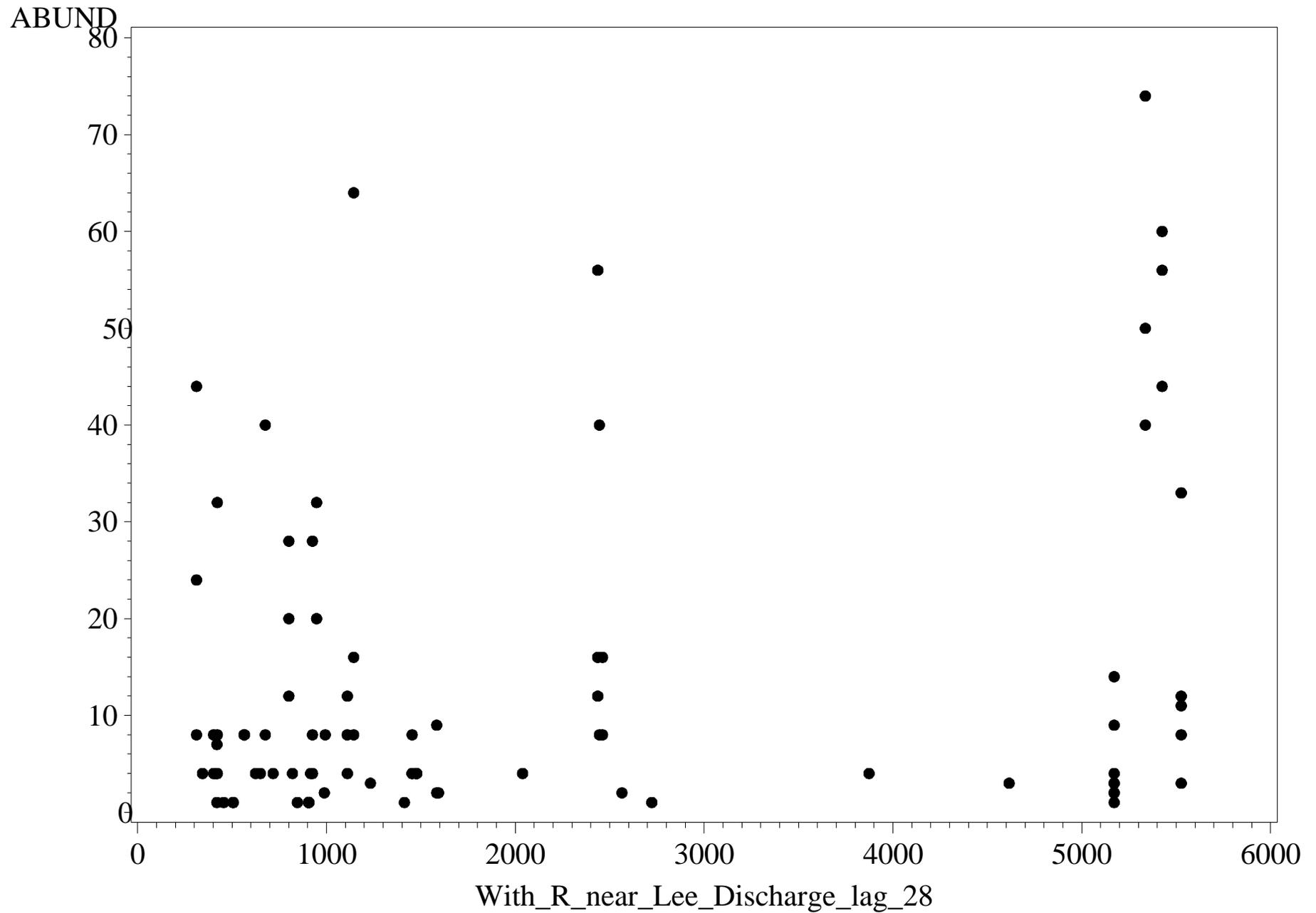
Individual Benthic Species vs. 28 Day Lag of Estimated Withlacoochee Flow (at Lee)
name=CORYNONEURA SP.



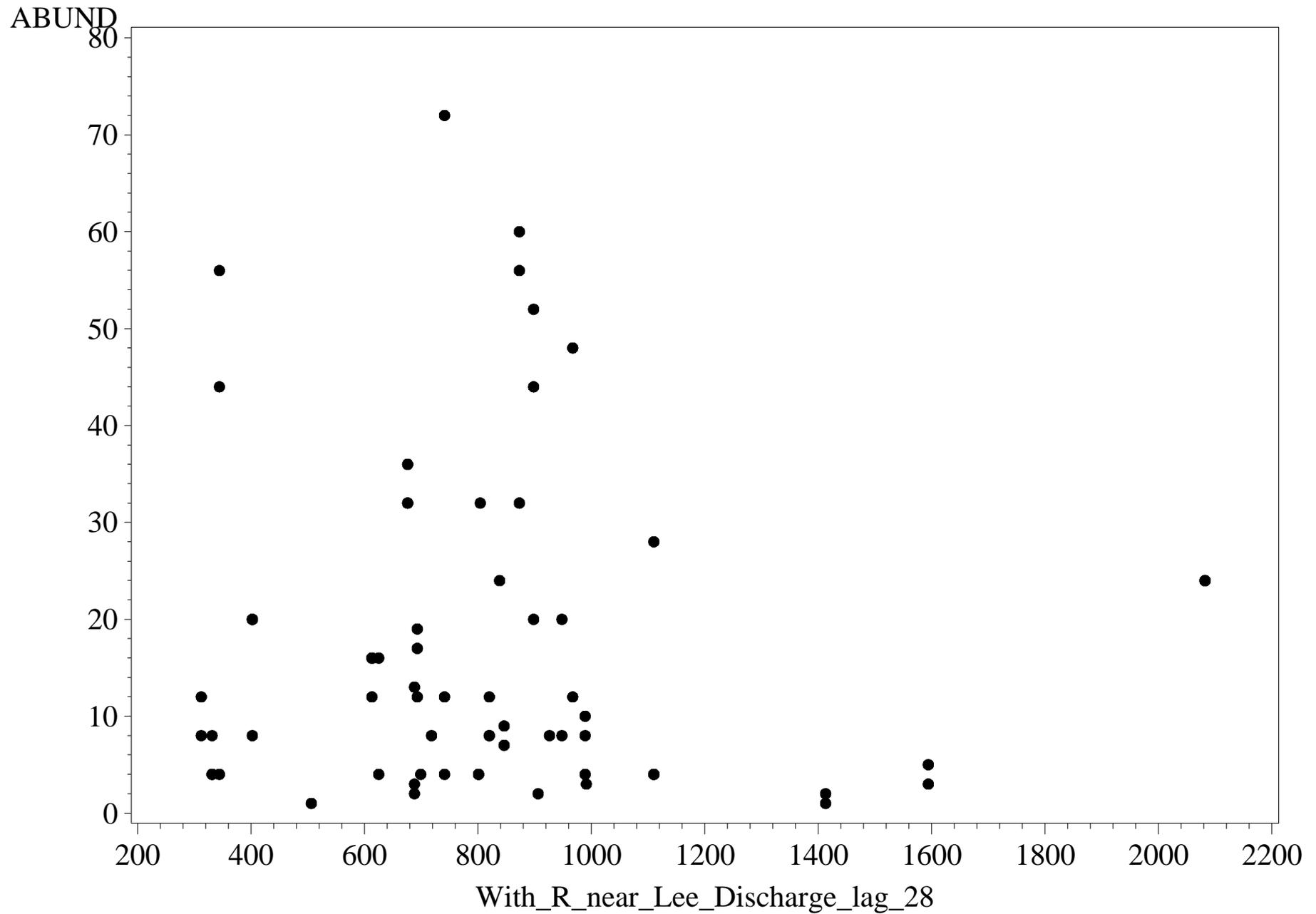
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name=CORYNONEURA TARIS



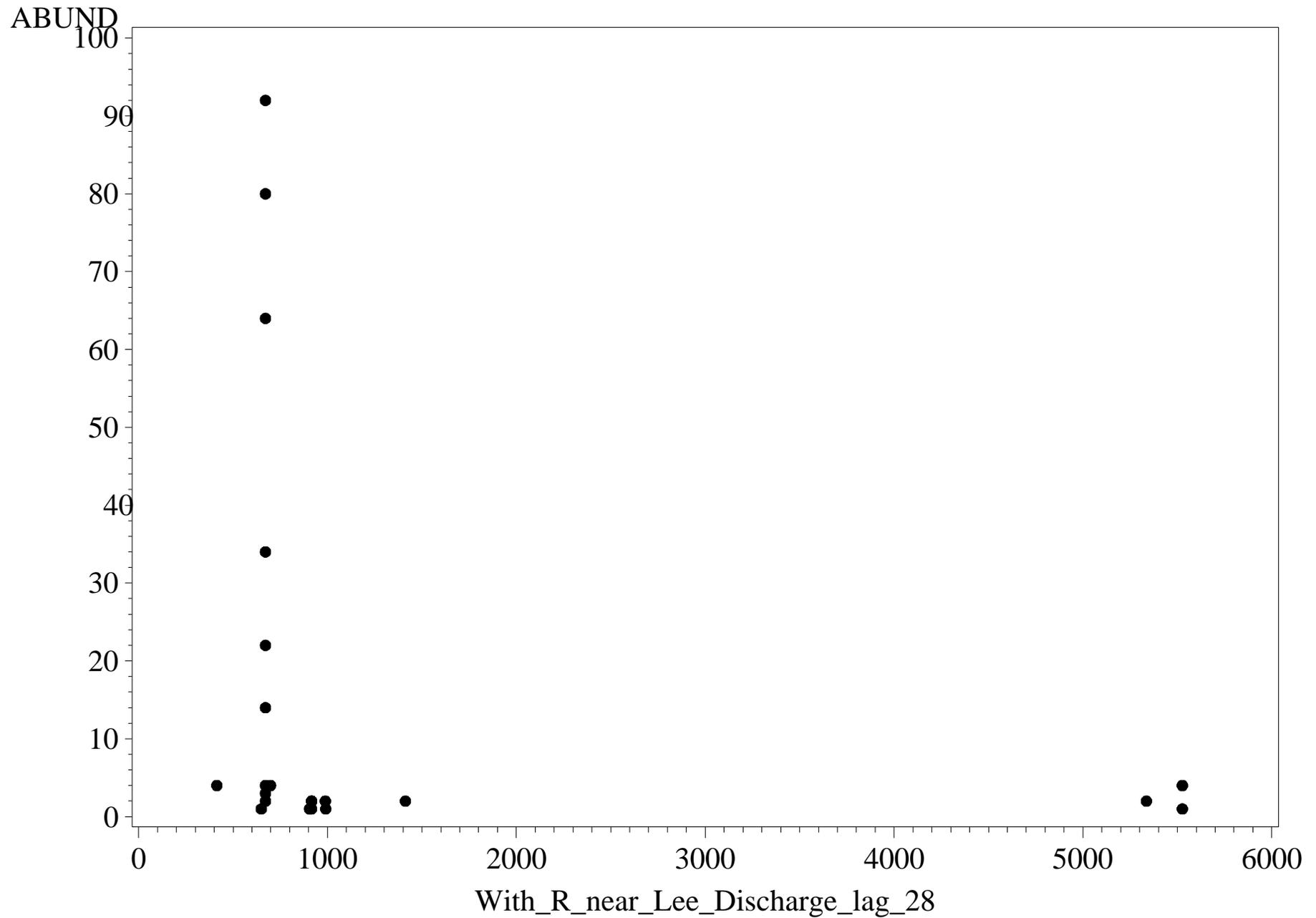
Individual Benthic Species vs. 28 Day Lag of Estimated Withlacoochee Flow (at Lee)
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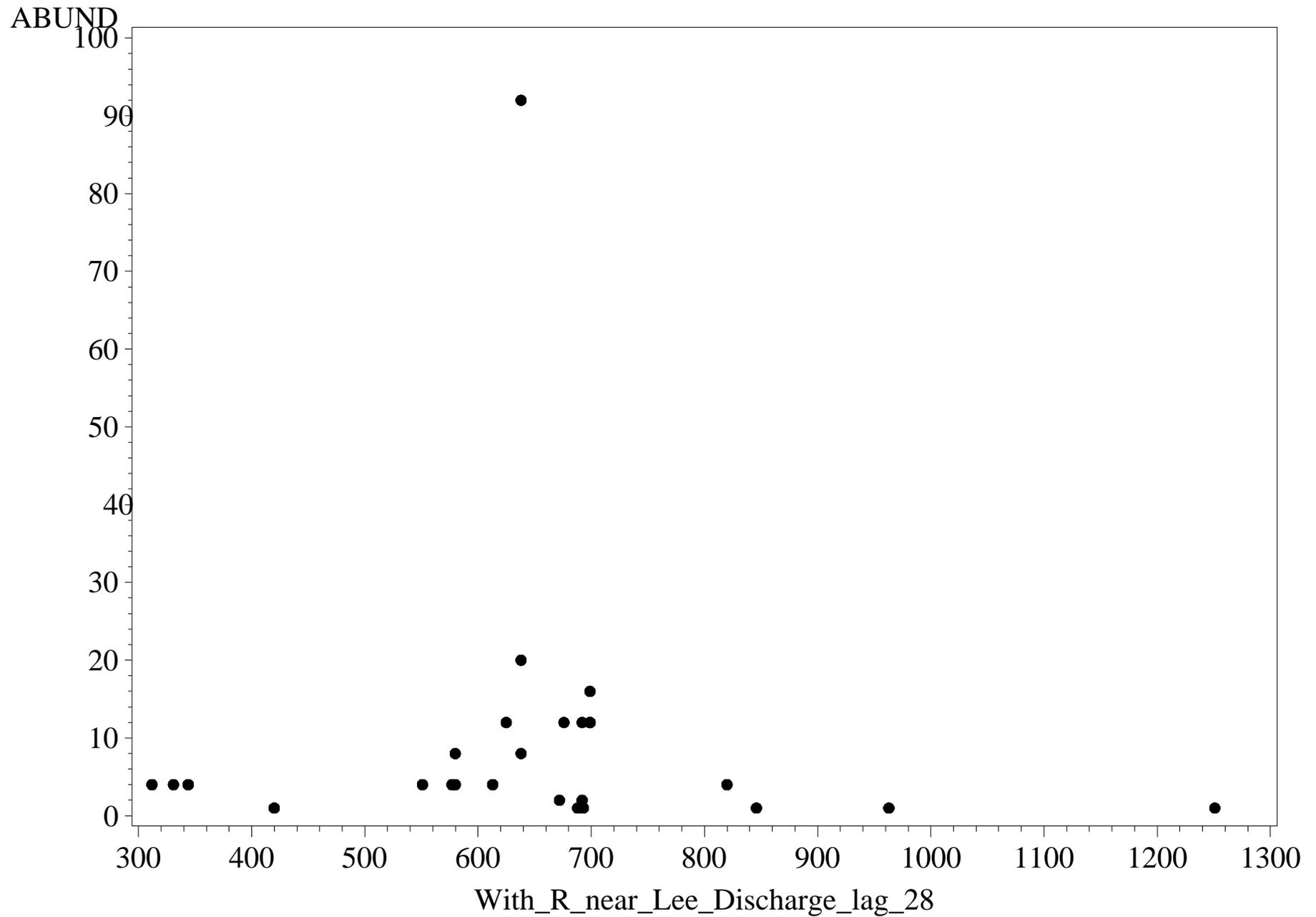
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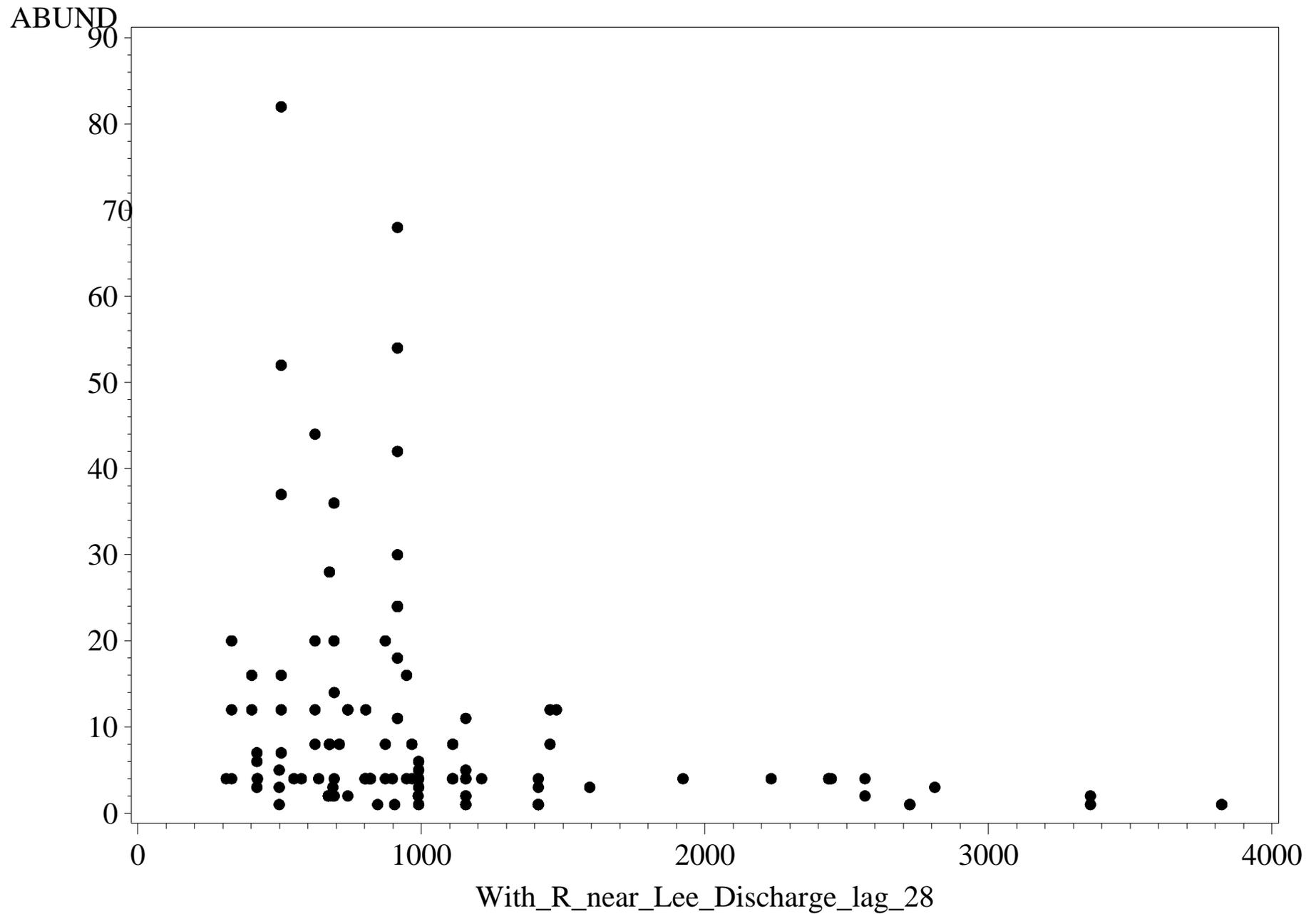
Individual Benthic Species vs. 28 Day Lag of Estimated Withlacoochee Flow (at Lee)
name=CRICOTOPUS SP.



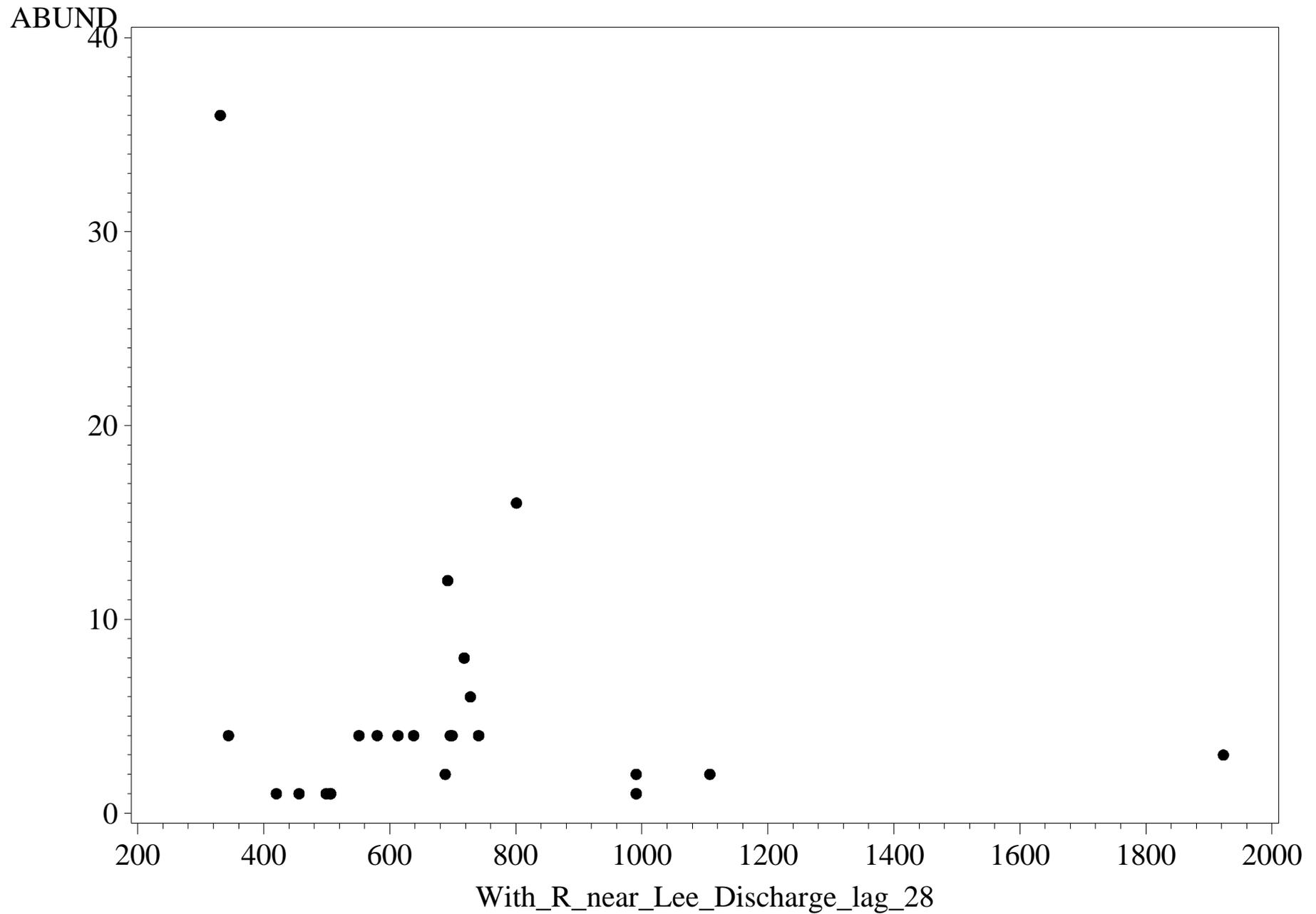
Individual Benthic Species vs. 28 Day Lag of Estimated Withlacoochee Flow (at Lee)
name=CRYPTOTENDIPES SP.



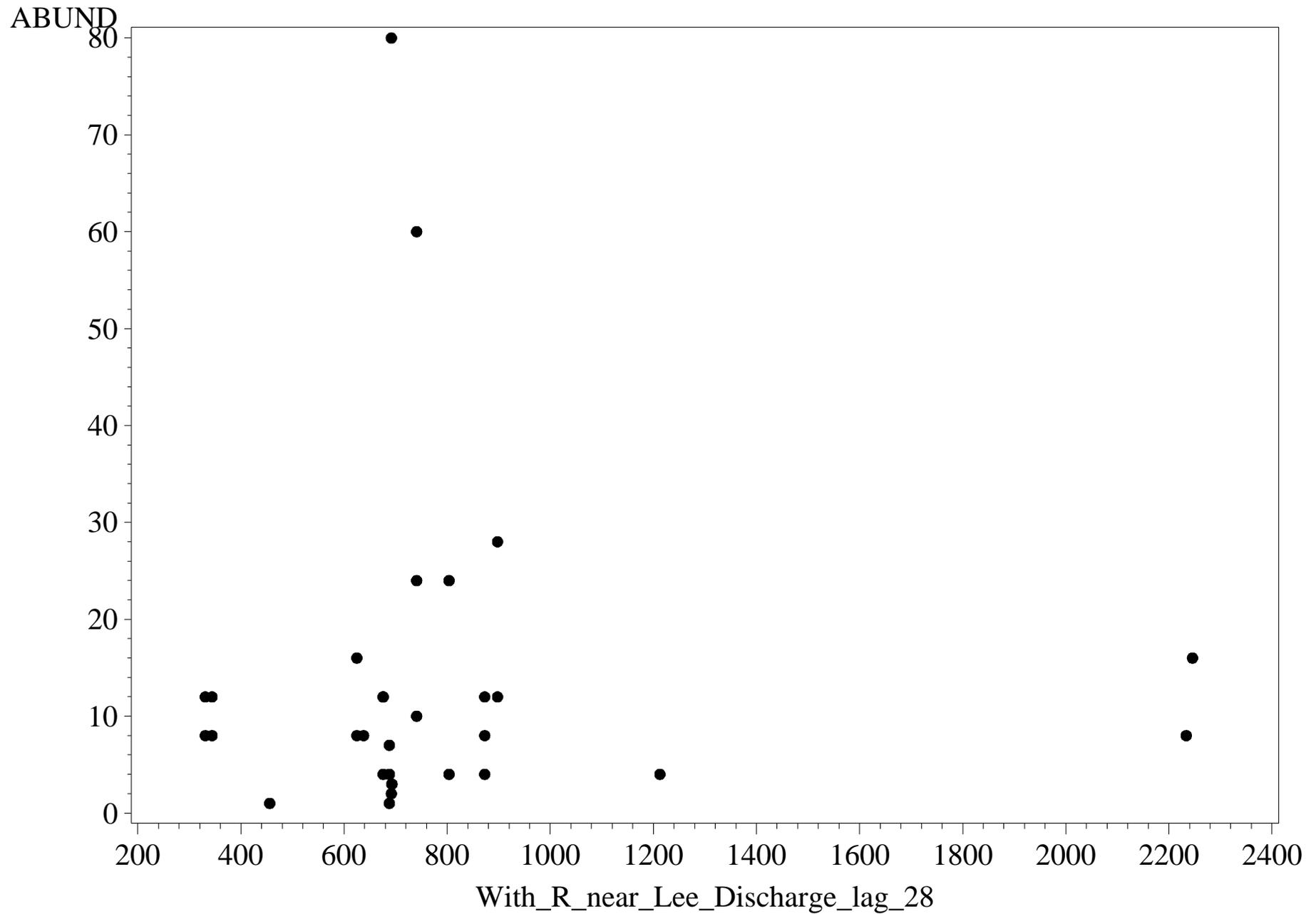
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name=CYRNELLUS FRATERNUS



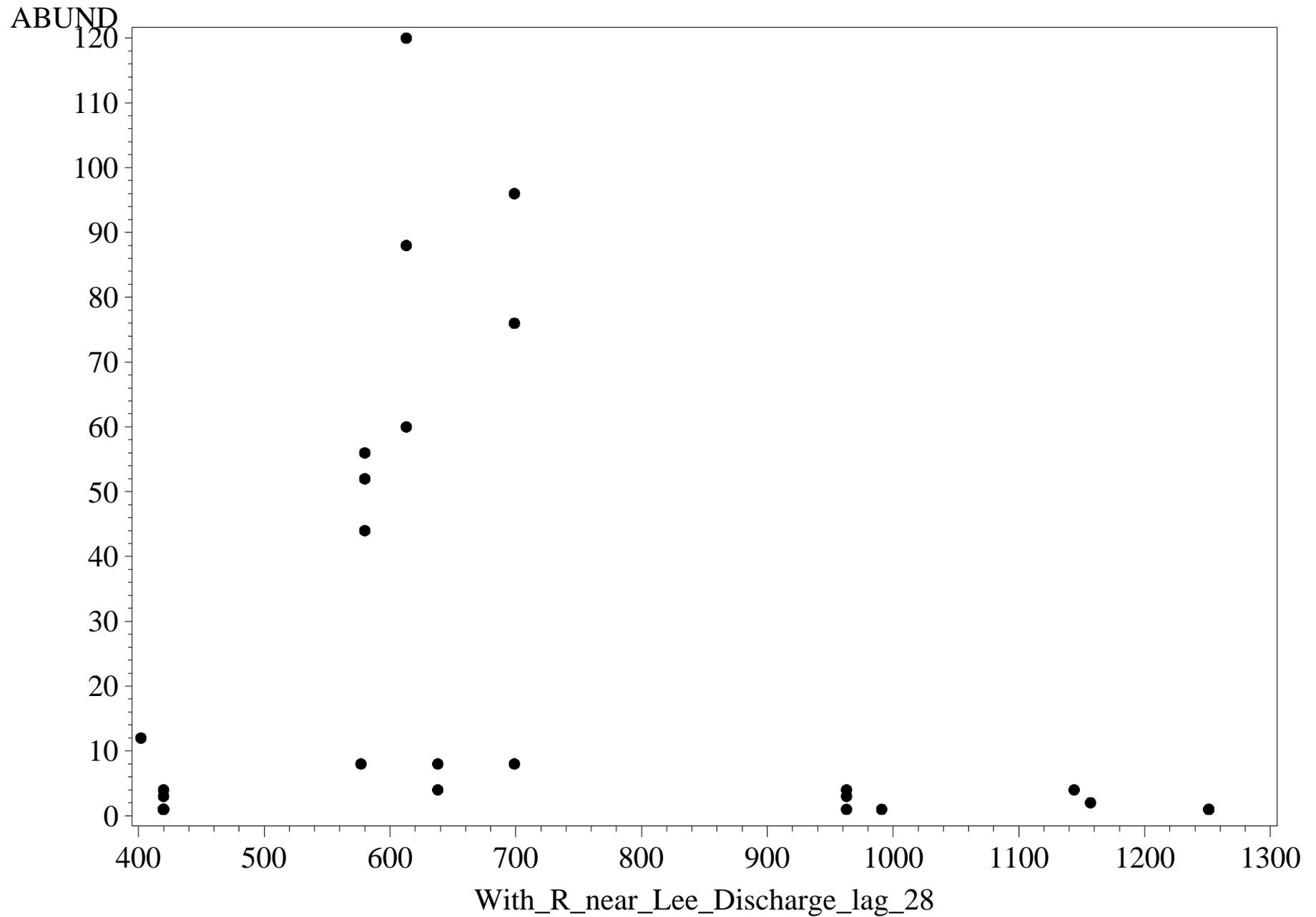
Individual Benthic Species vs. 28 Day Lag of Estimated Withlacoochee Flow (at Lee)
name=DERO SP.



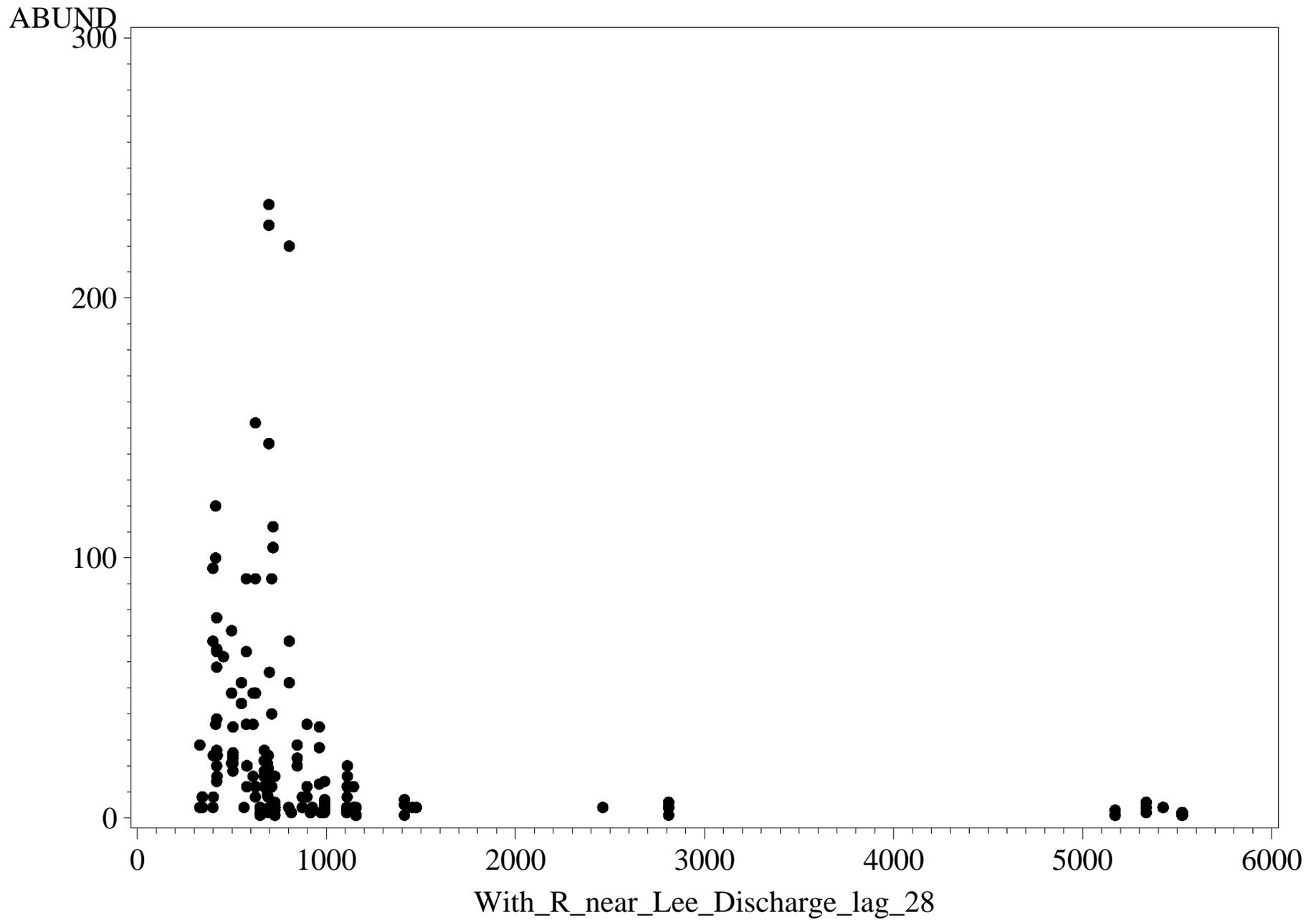
Individual Benthic Species vs. 28 Day Lag of Estimated Withlacoochee Flow (at Lee)
name=DERO TRIFIDA



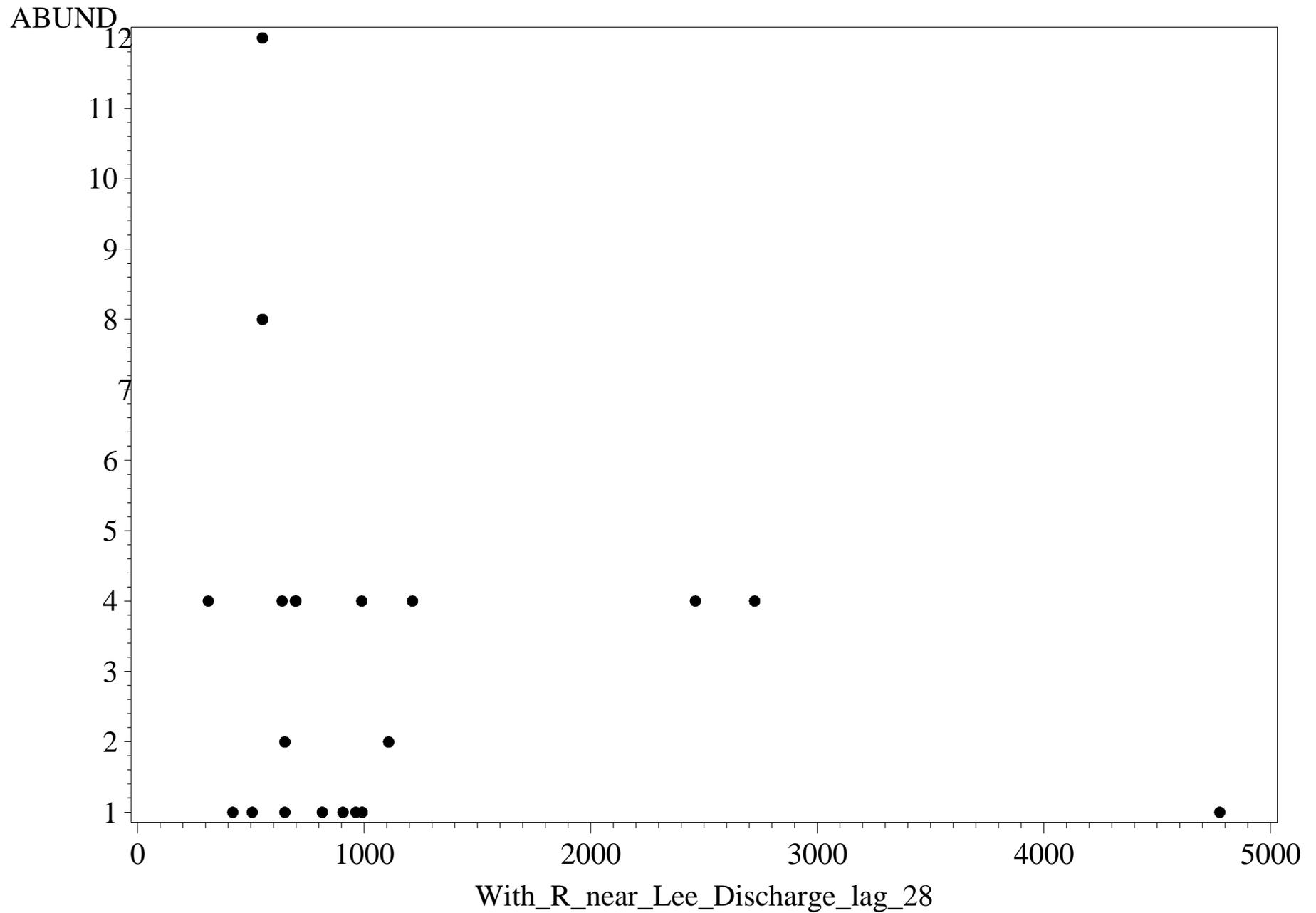
Individual Benthic Species vs. 28 Day Lag of Estimated Withlacoochee Flow (at Lee)
name=DICROTENDIPES MODESTUS



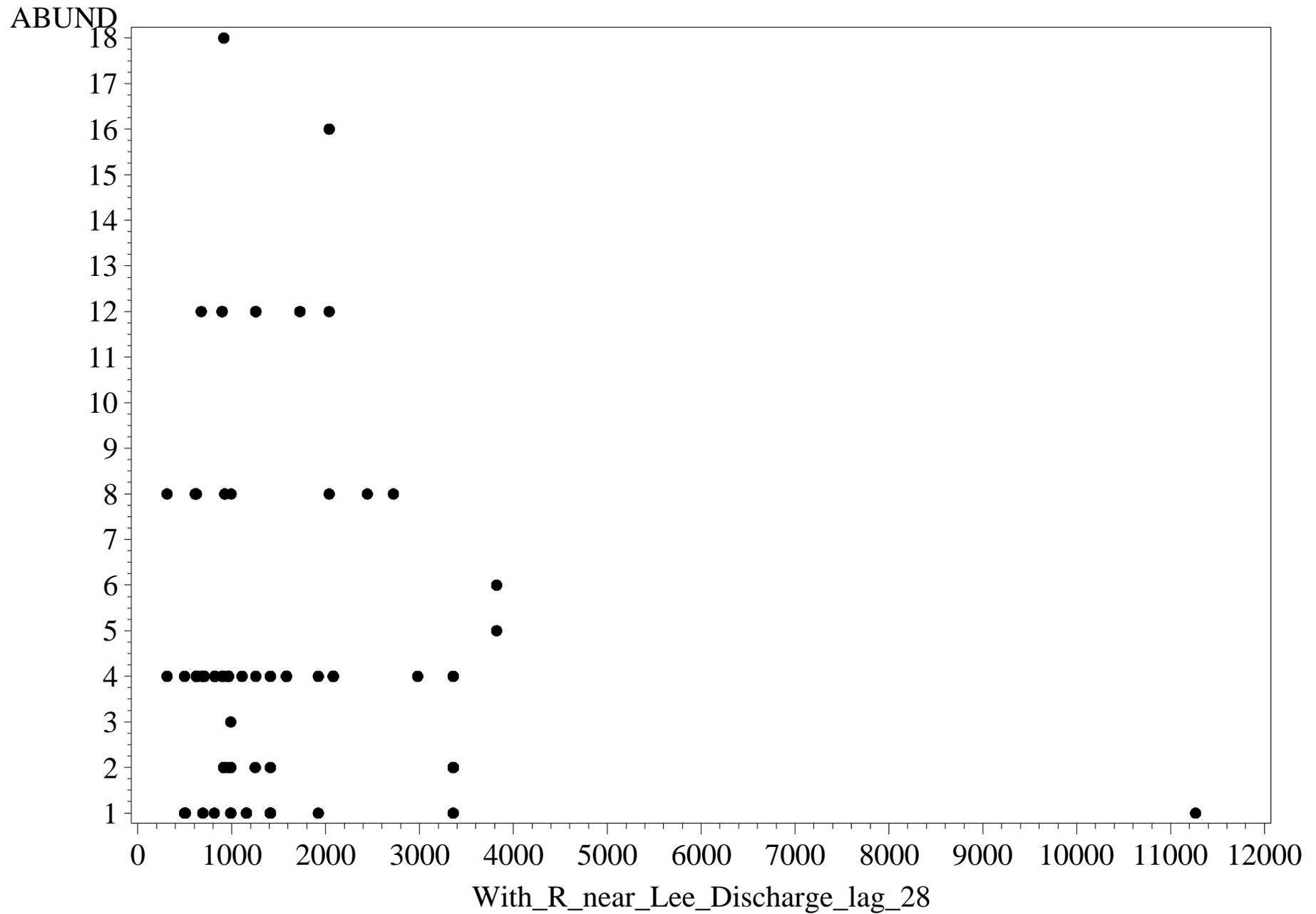
Individual Benthic Species vs. 28 Day Lag of Estimated Withlacoochee Flow (at Lee)
name=DICROTENDIPES NEOMODESTUS



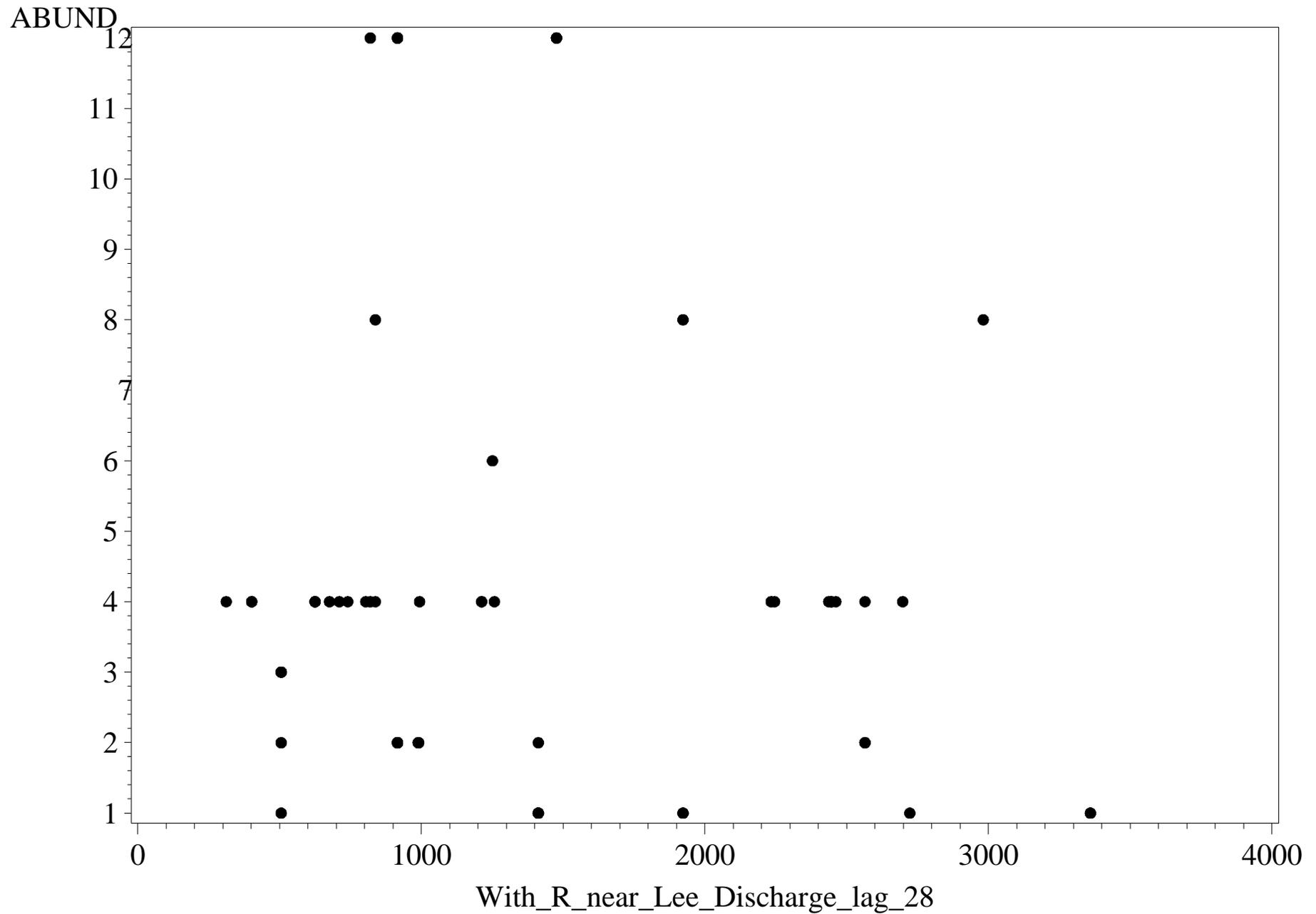
Individual Benthic Species vs. 28 Day Lag of Estimated Withlacoochee Flow (at Lee)
name=DICROTENDIPES SP.



Individual Benthic Species vs. 28 Day Lag of Estimated Withlacoochee Flow (at Lee)
name=DINEUTUS SP.

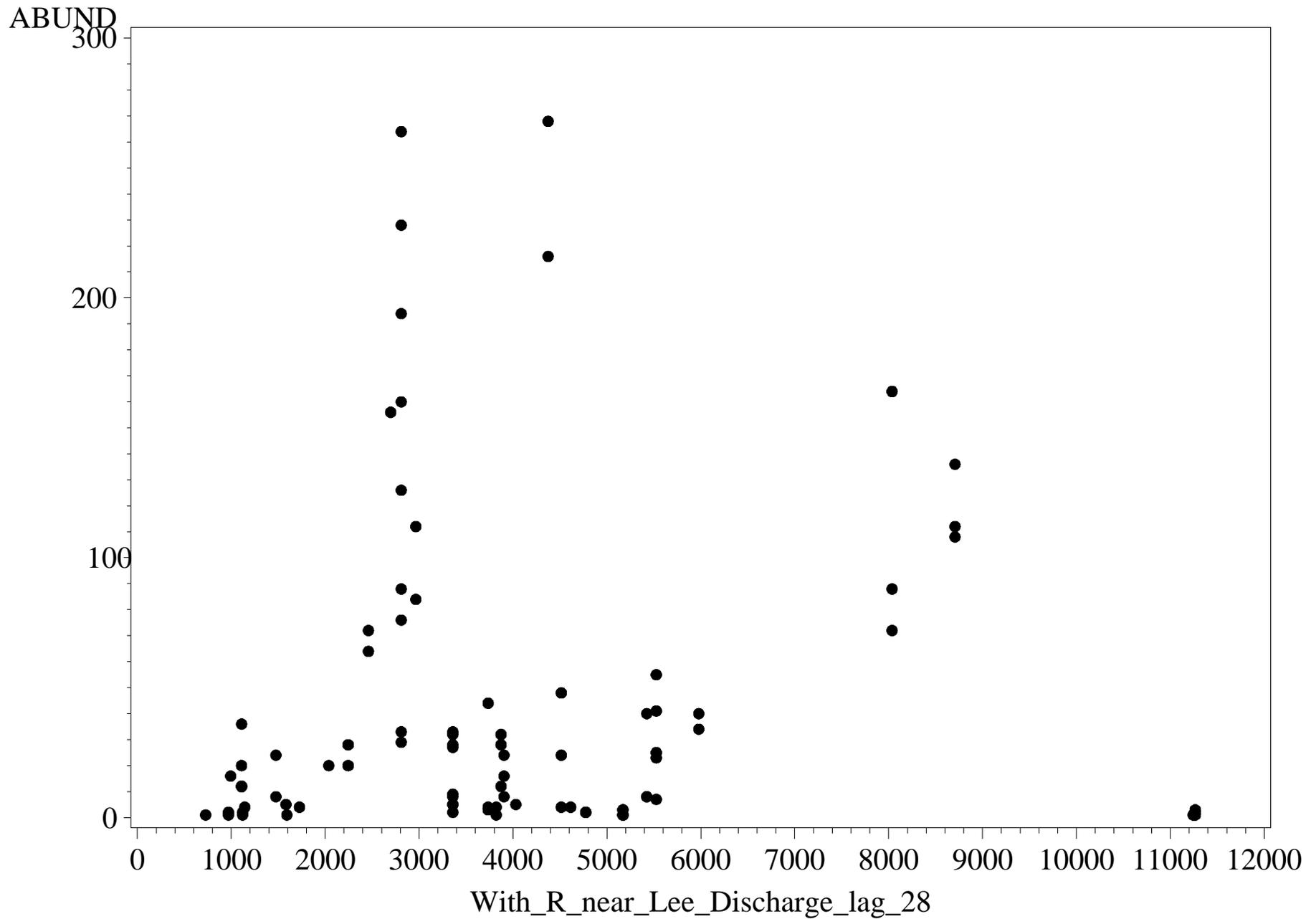


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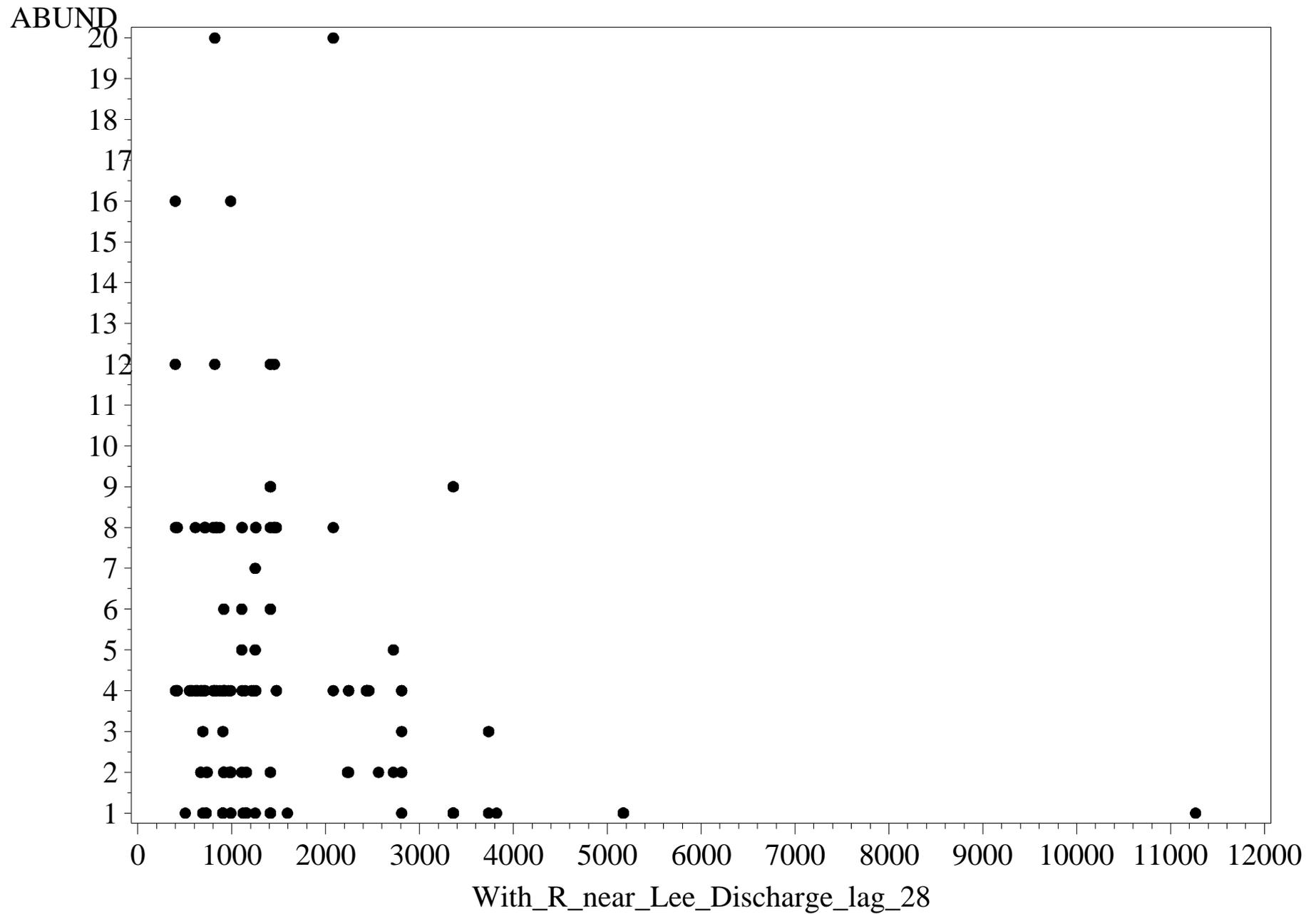


Individual Benthic Species vs. 28 Day Lag of Estimated Withlacoochee Flow (at Lee)

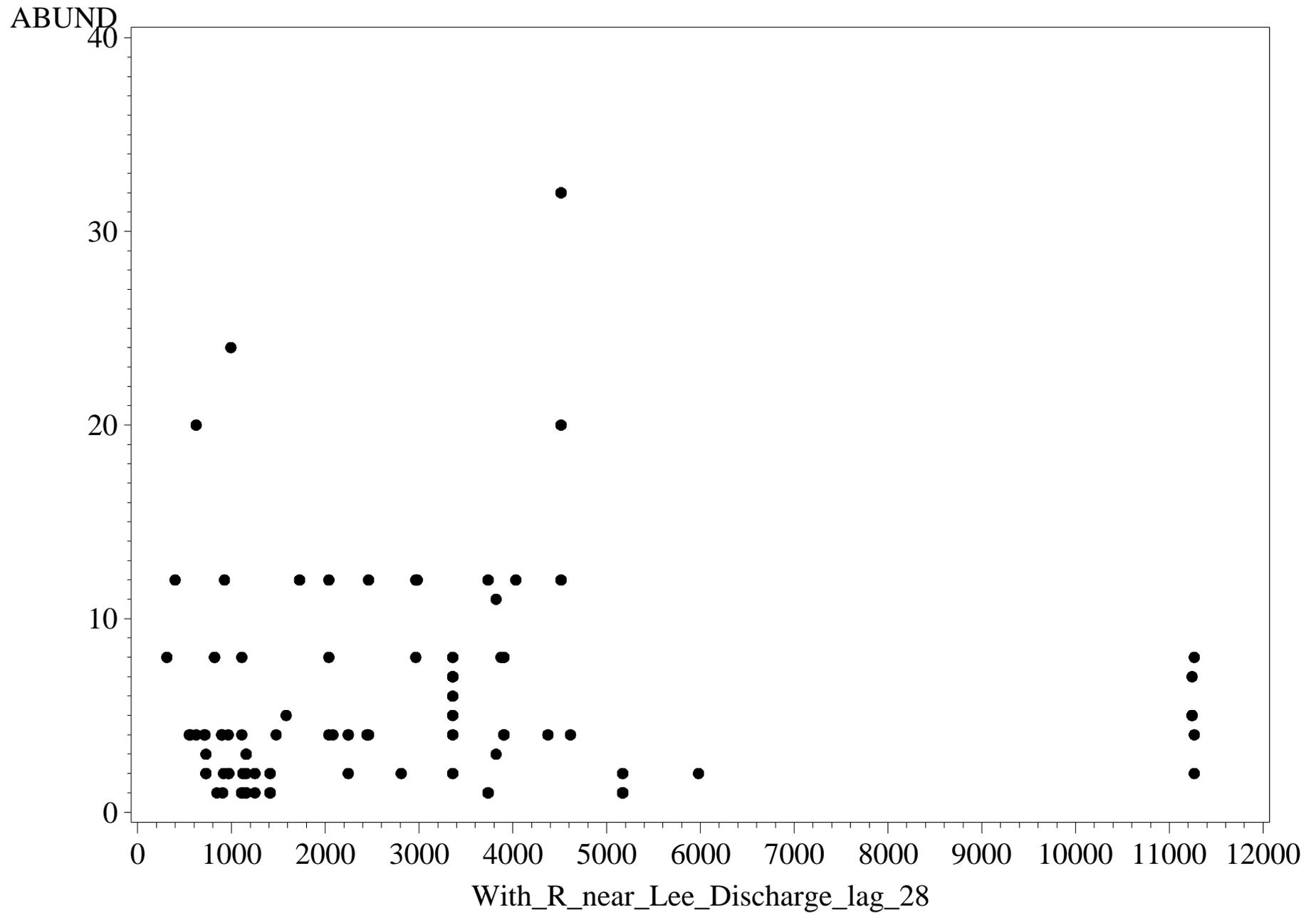
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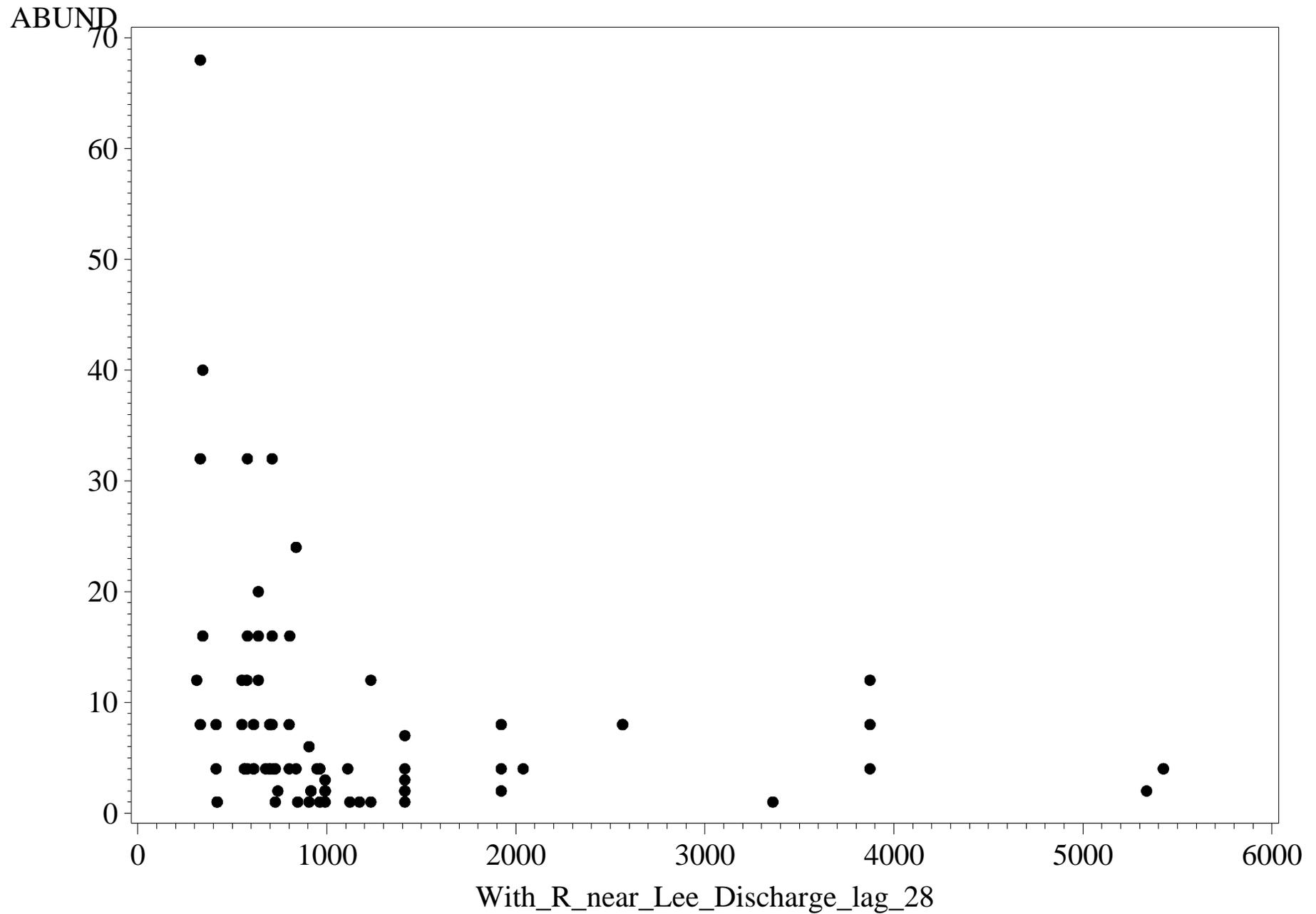
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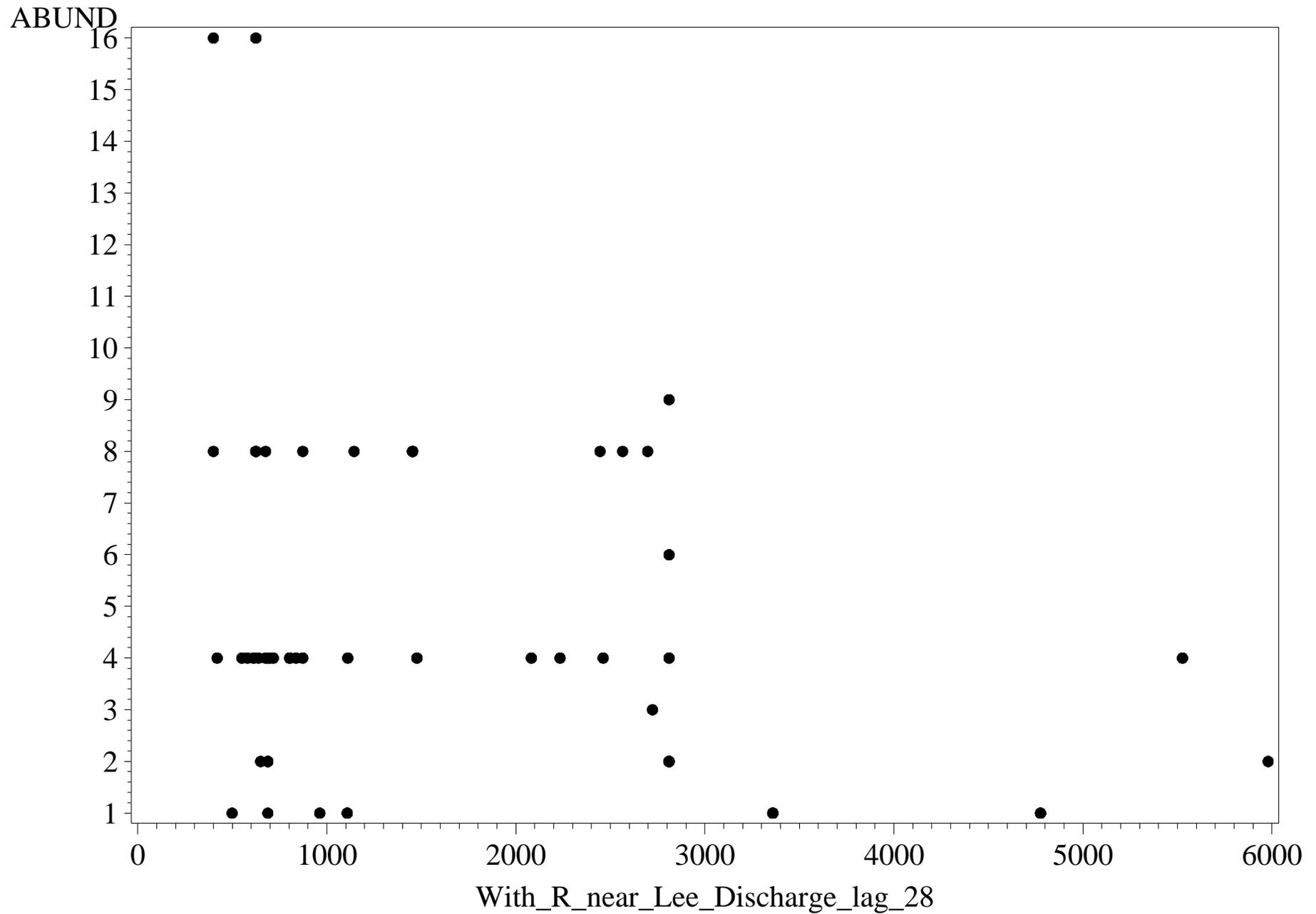
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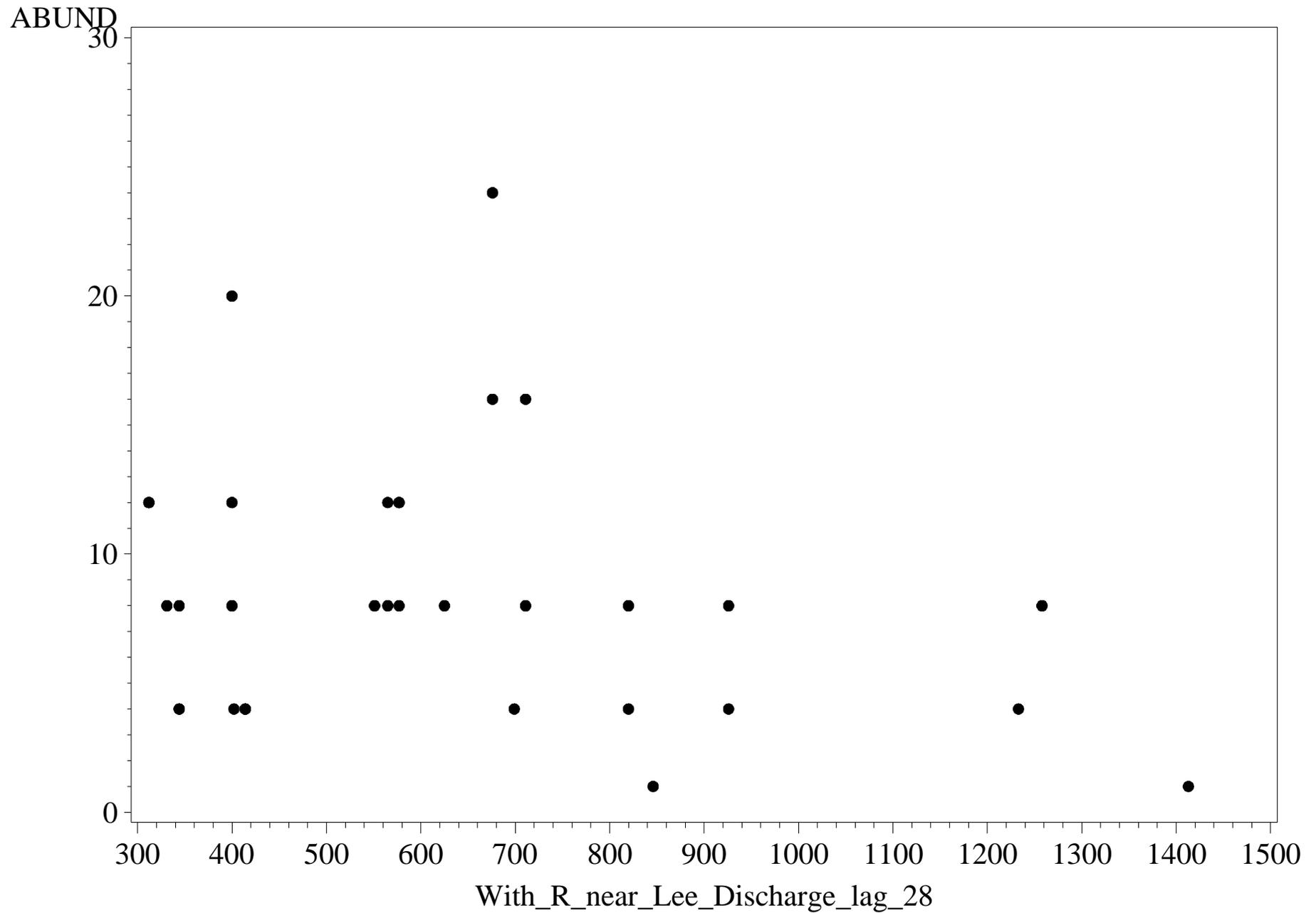
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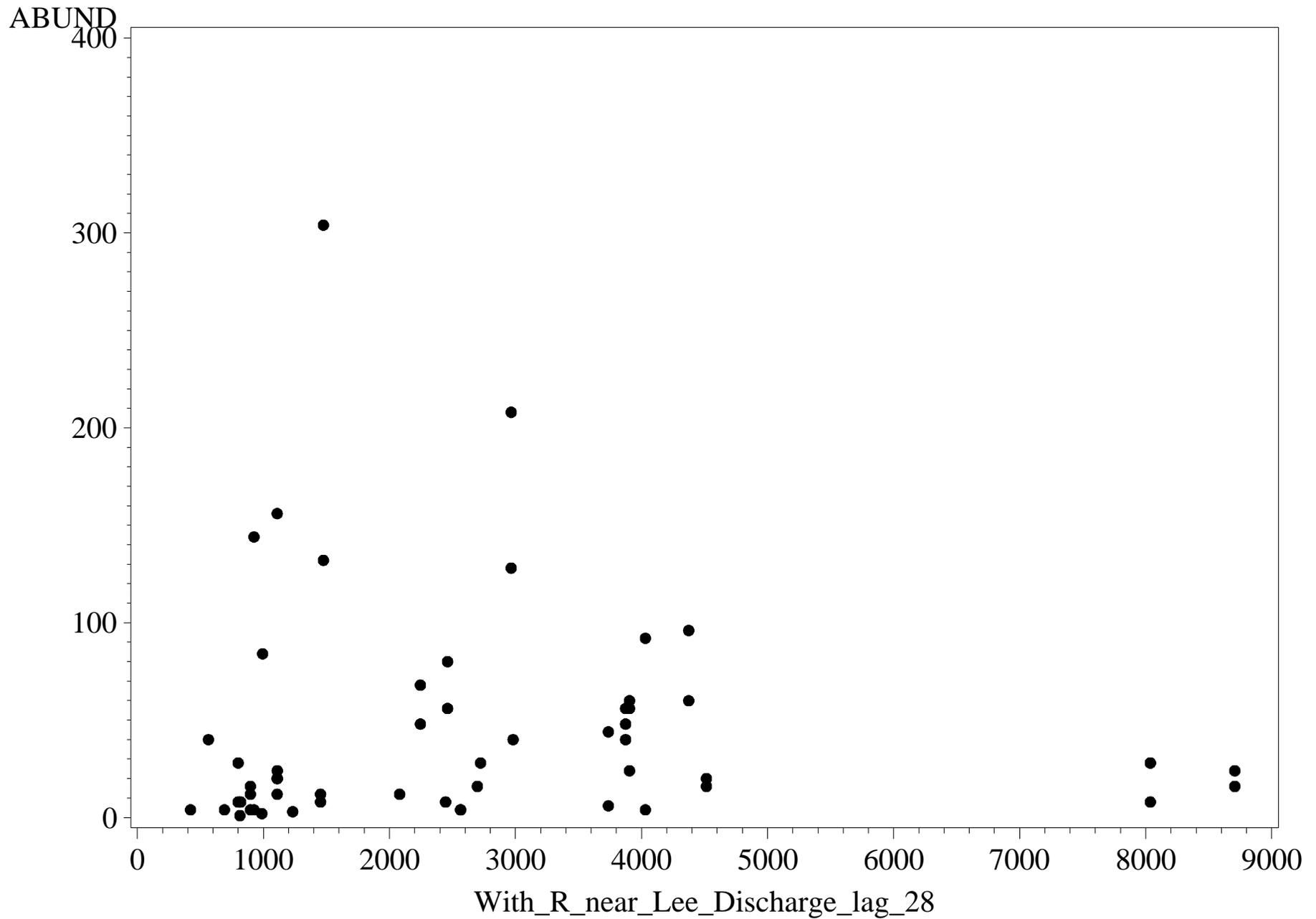
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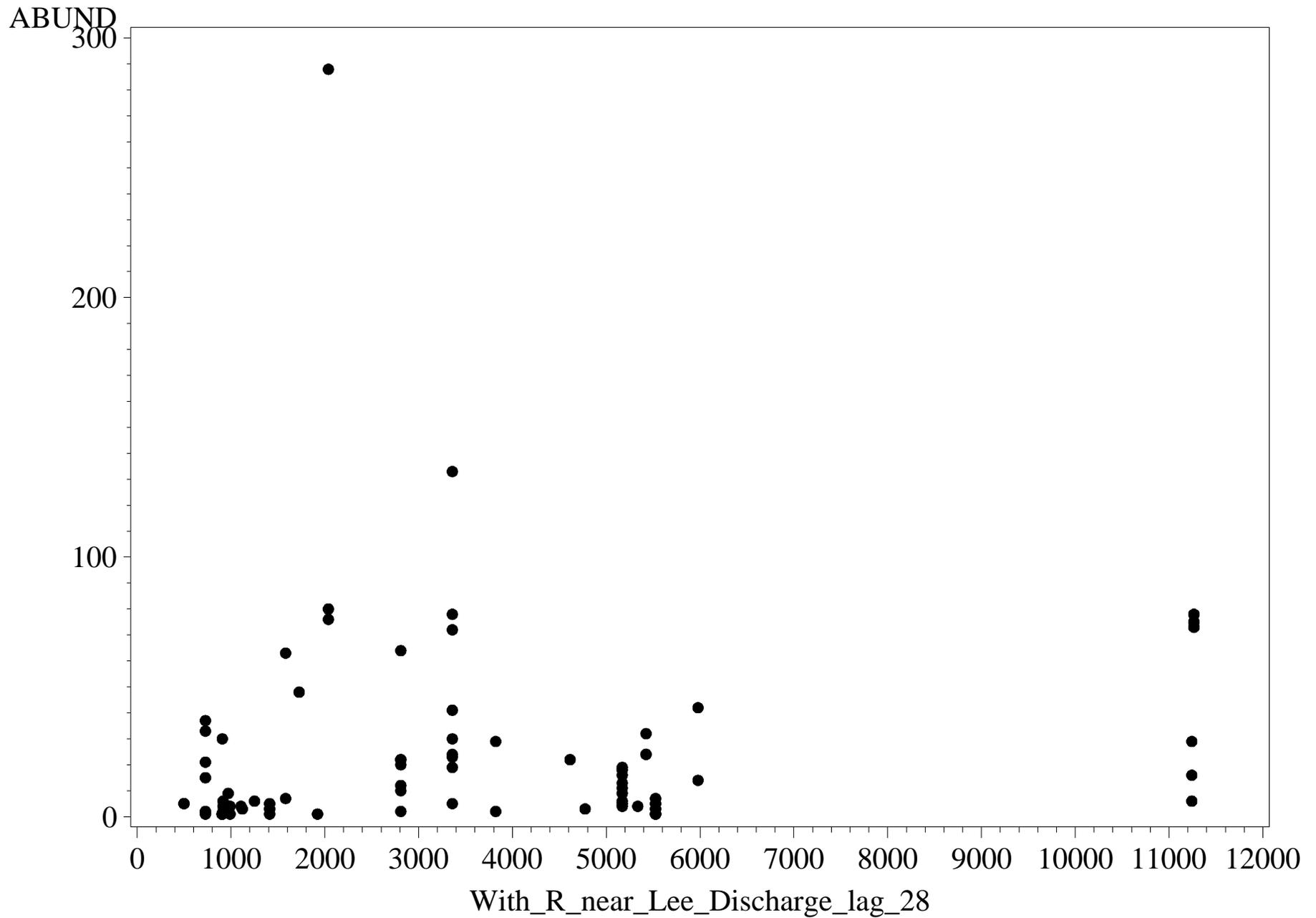
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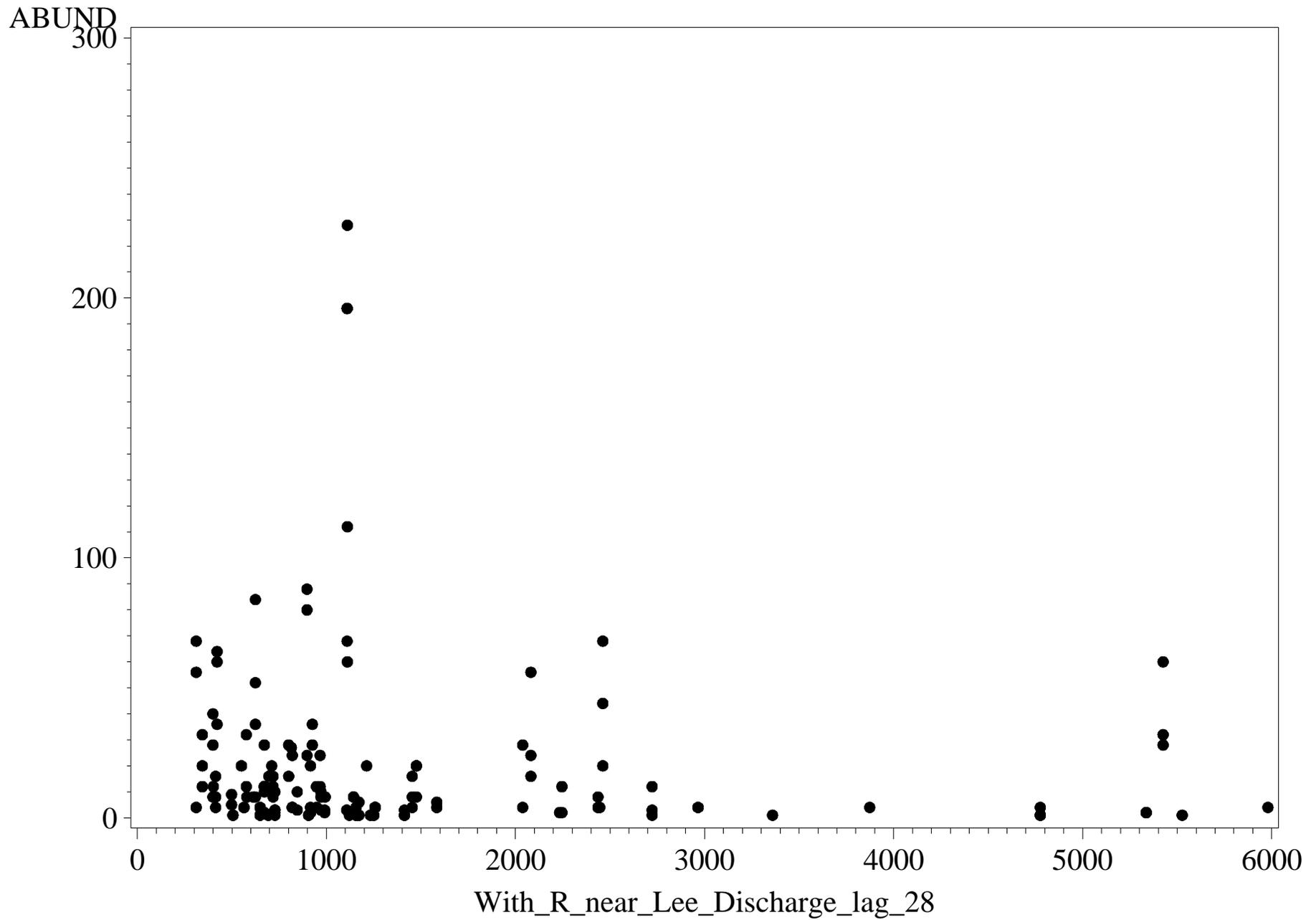
Individual Benthic Species vs. 28 Day Lag of Estimated Withlacoochee Flow (at Lee)
name=HYDROPSYCHE ROSSI



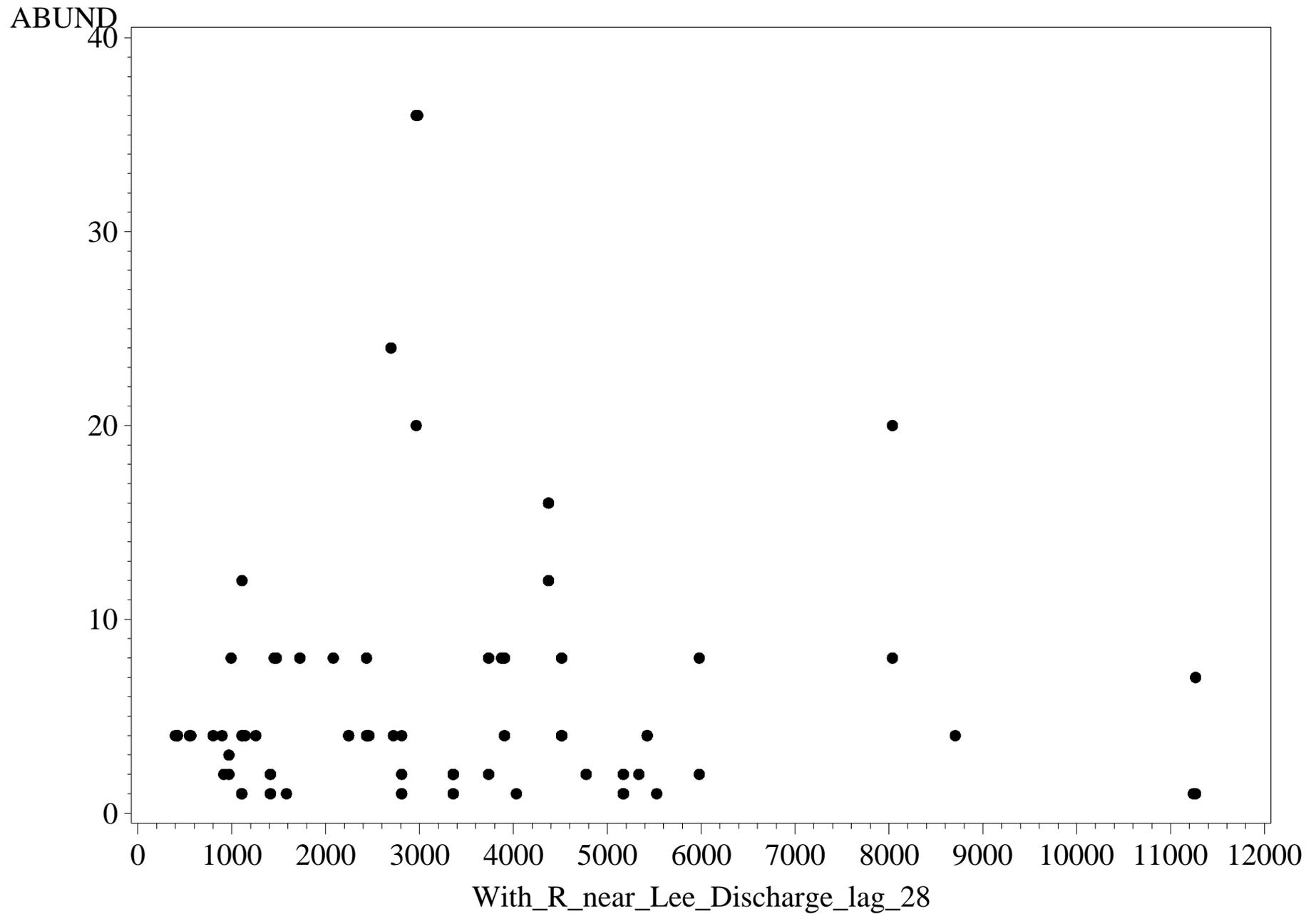
Individual Benthic Species vs. 28 Day Lag of Estimated Withlacoochee Flow (at Lee)
name=HYDROPSYCHE SIMULANS



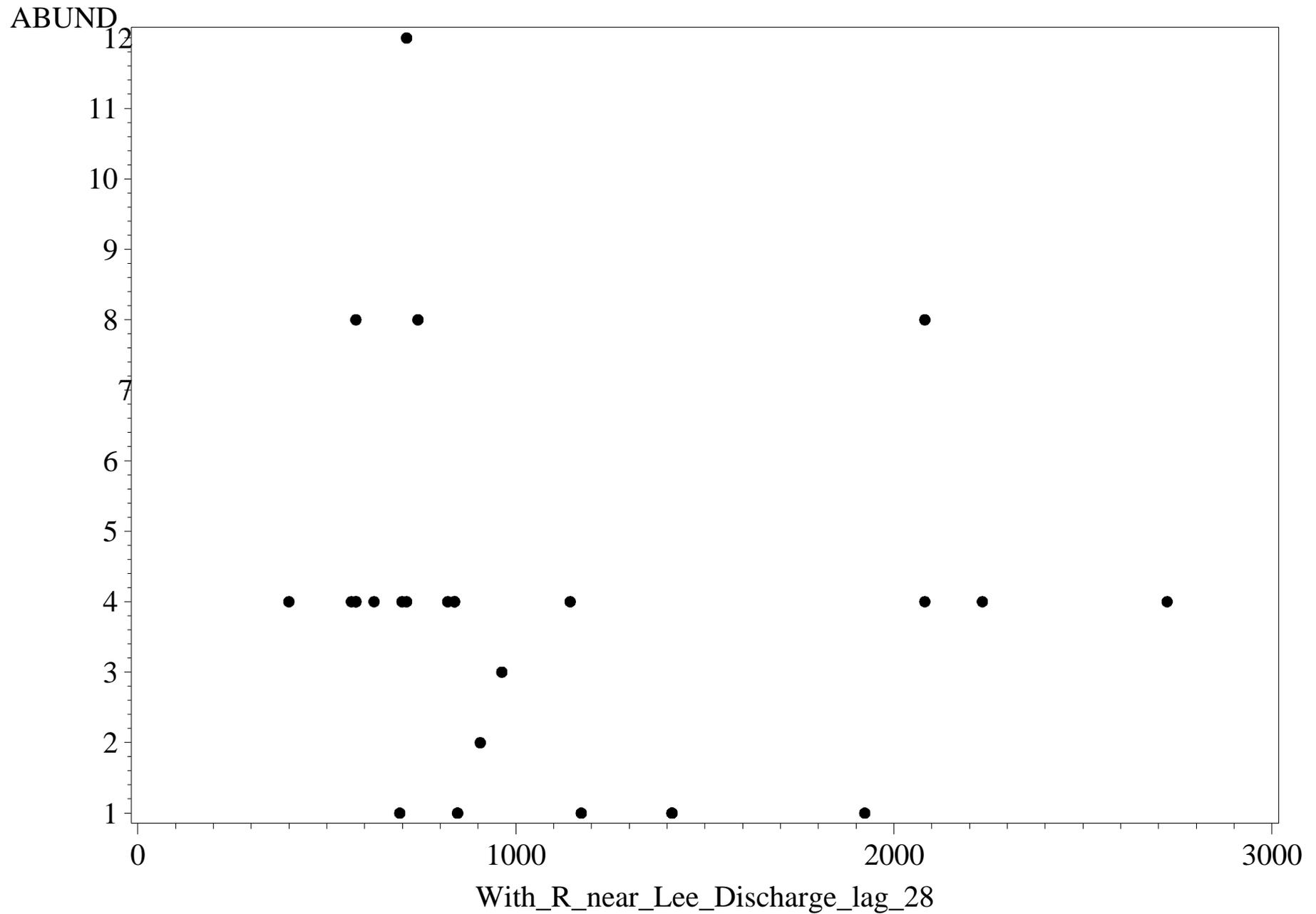
Individual Benthic Species vs. 28 Day Lag of Estimated Withlacoochee Flow (at Lee)
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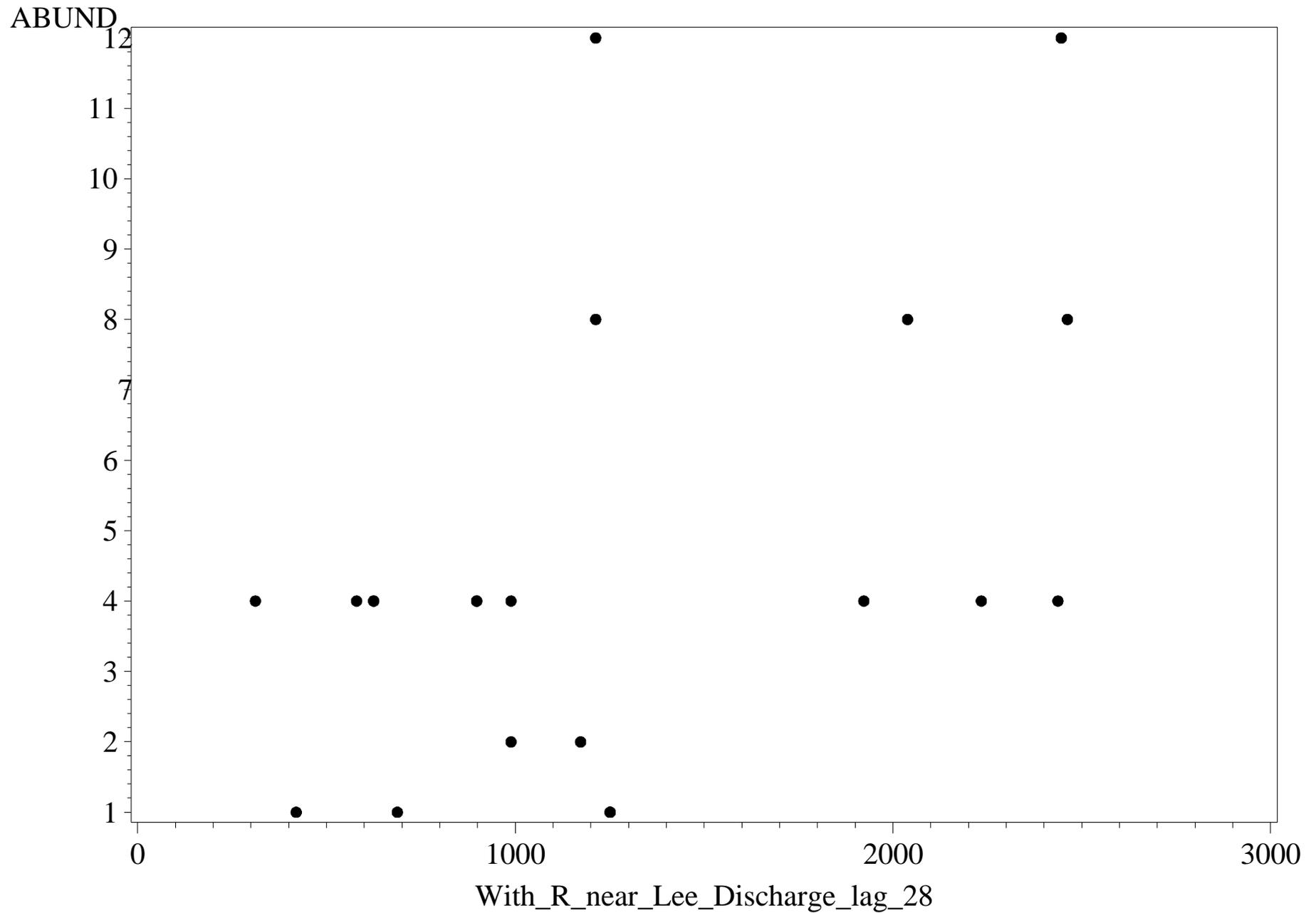
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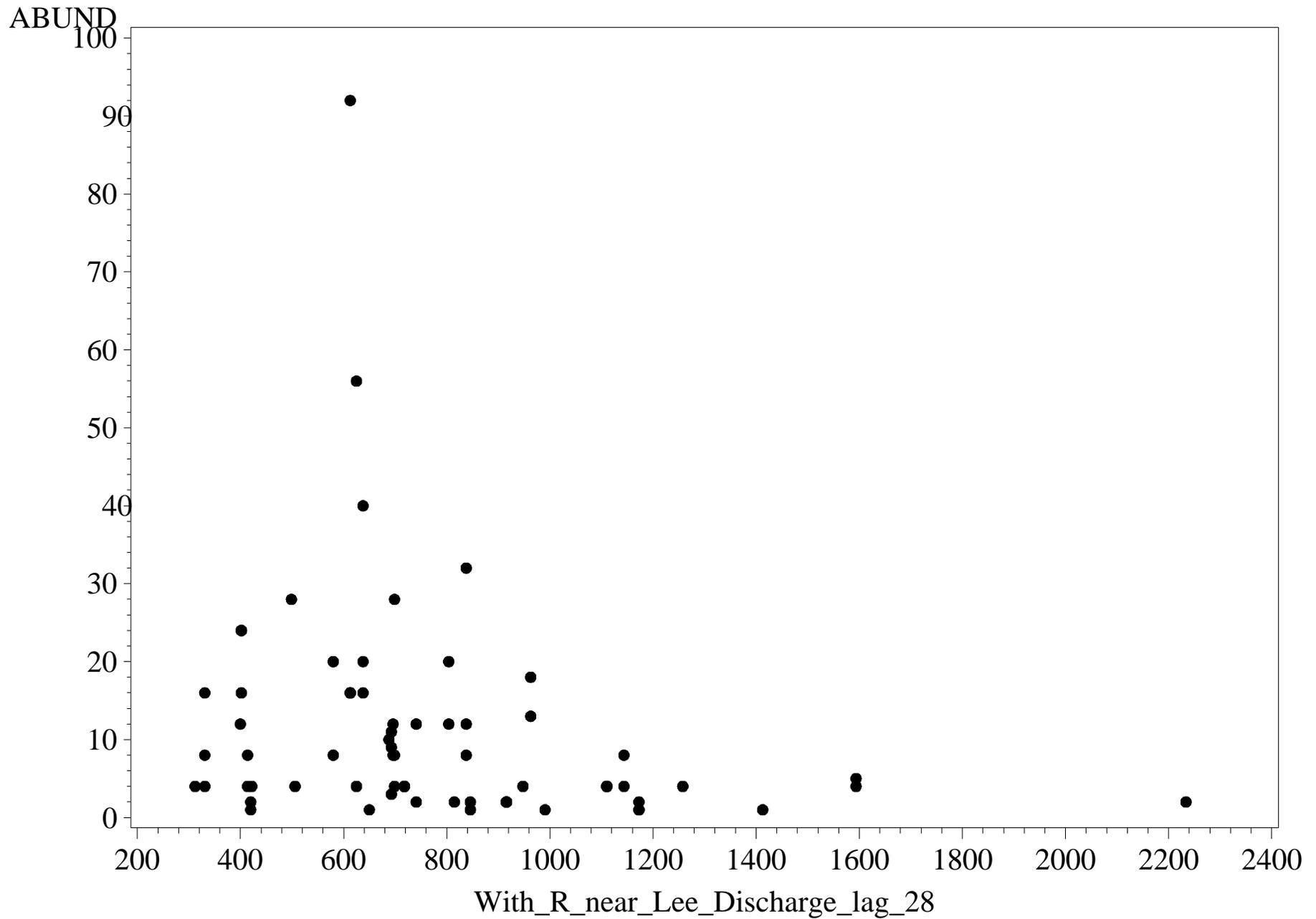
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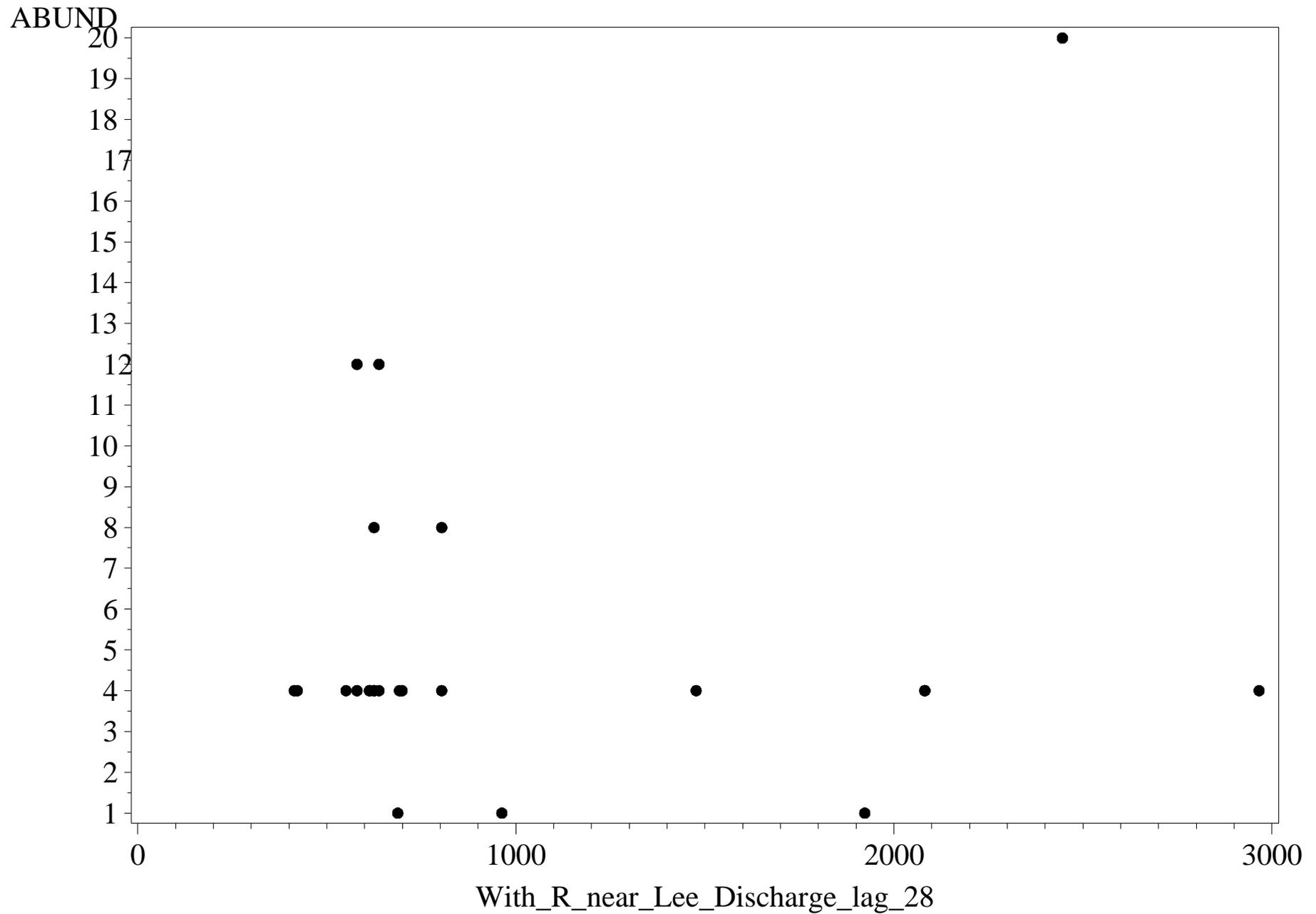
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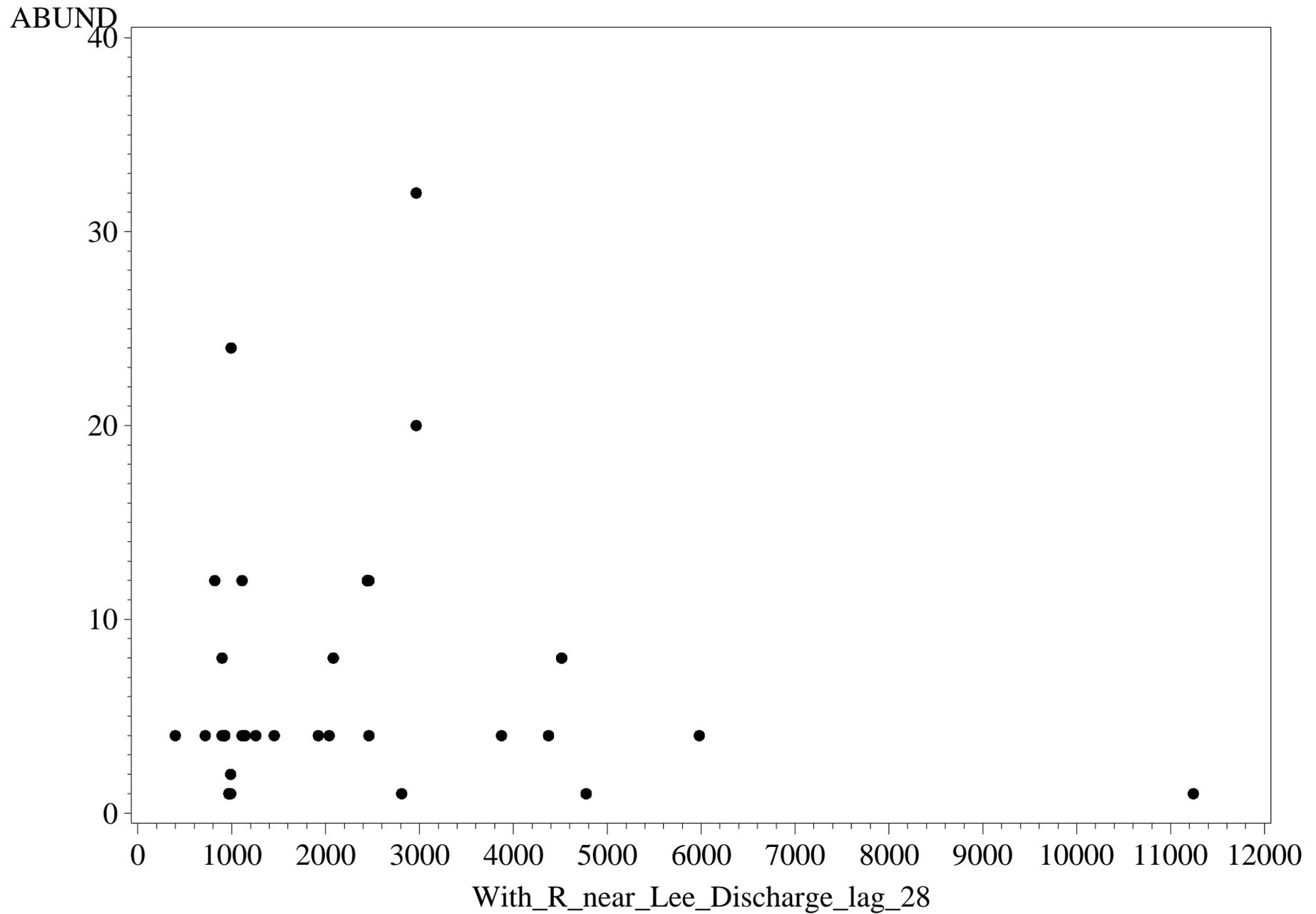
Individual Benthic Species vs. 28 Day Lag of Estimated Withlacoochee Flow (at Lee)
name=MENETUS DILATATUS



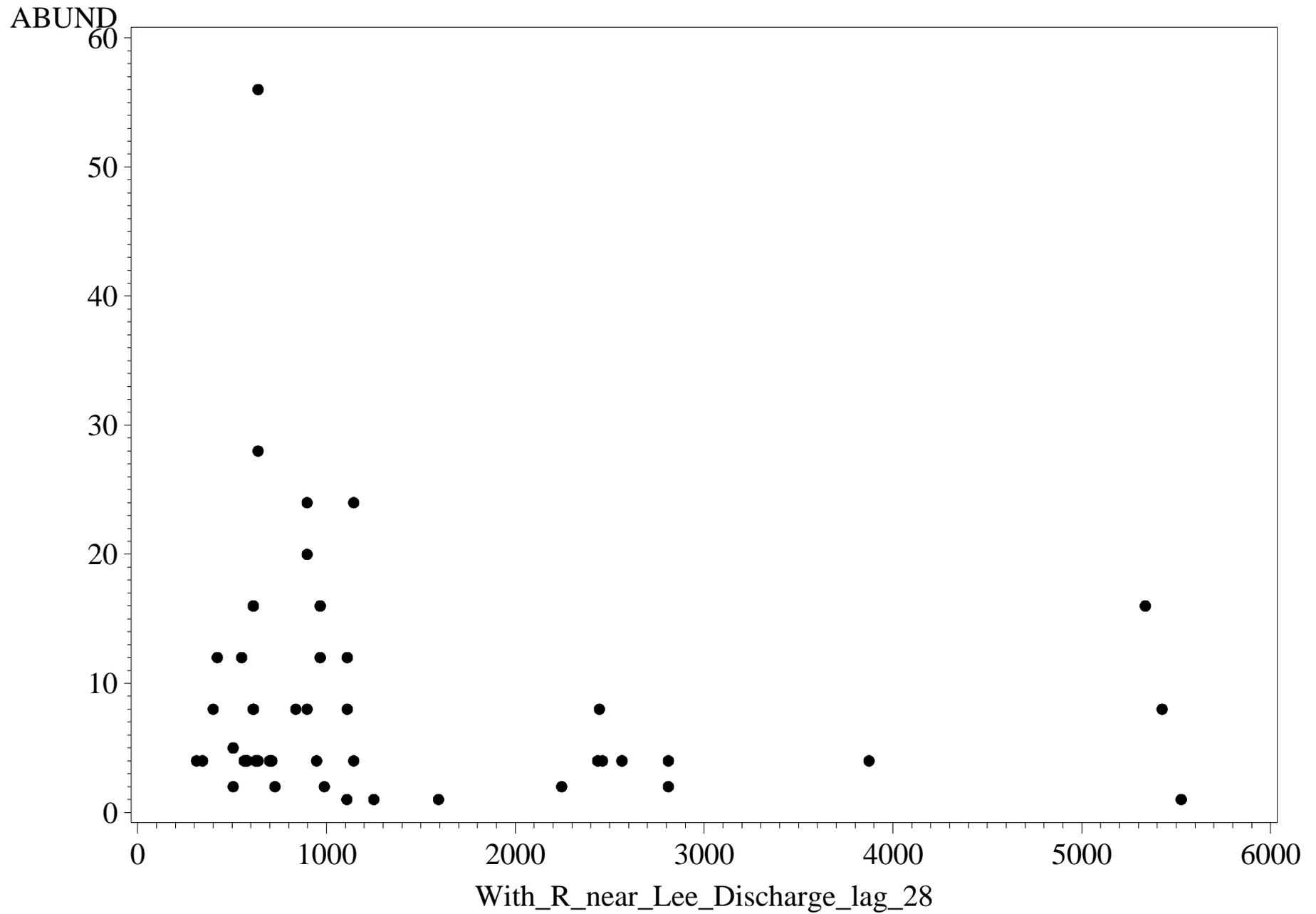
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name=MIDEOPSIS SP.



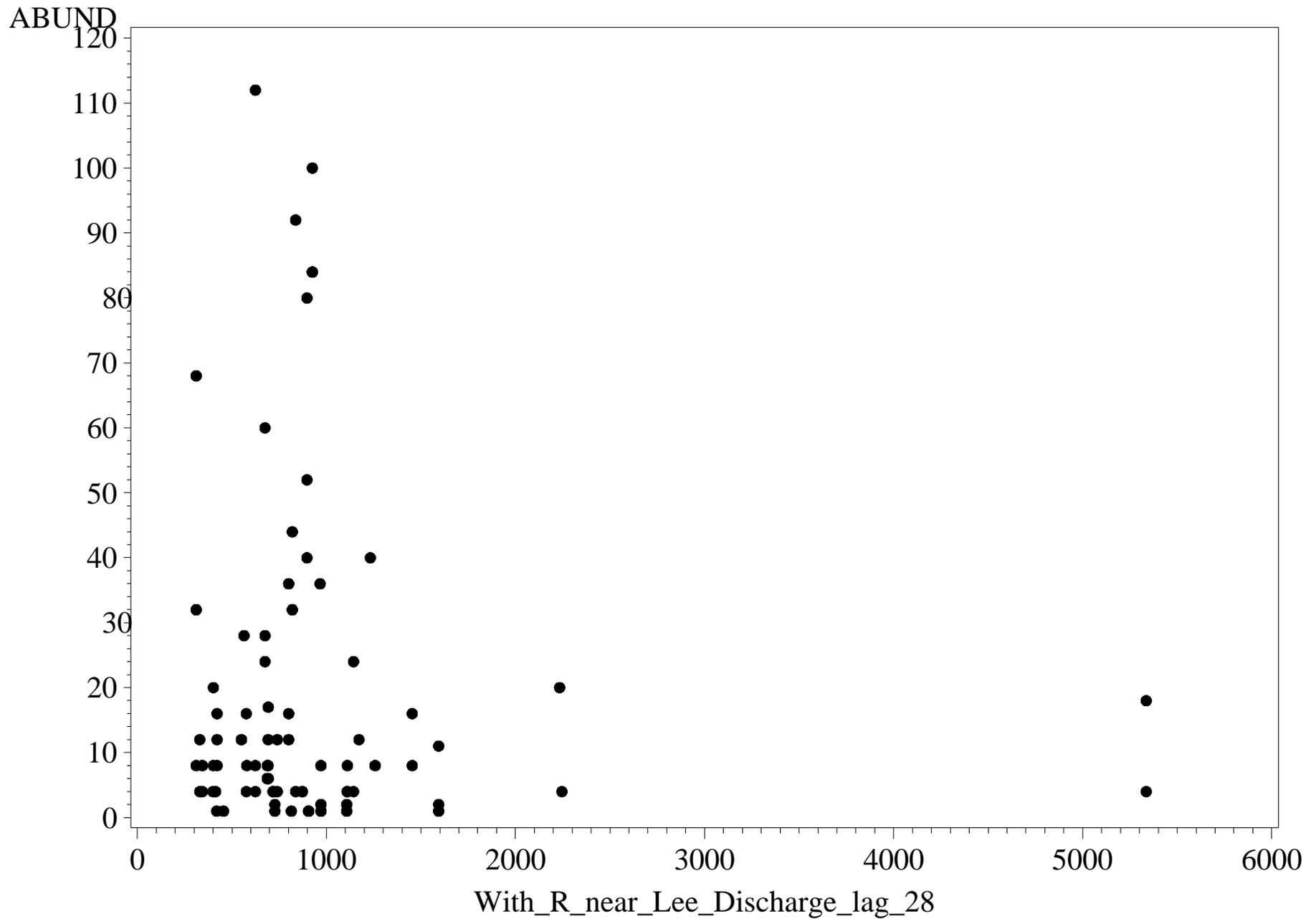
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name=NAIS BEHNINGI



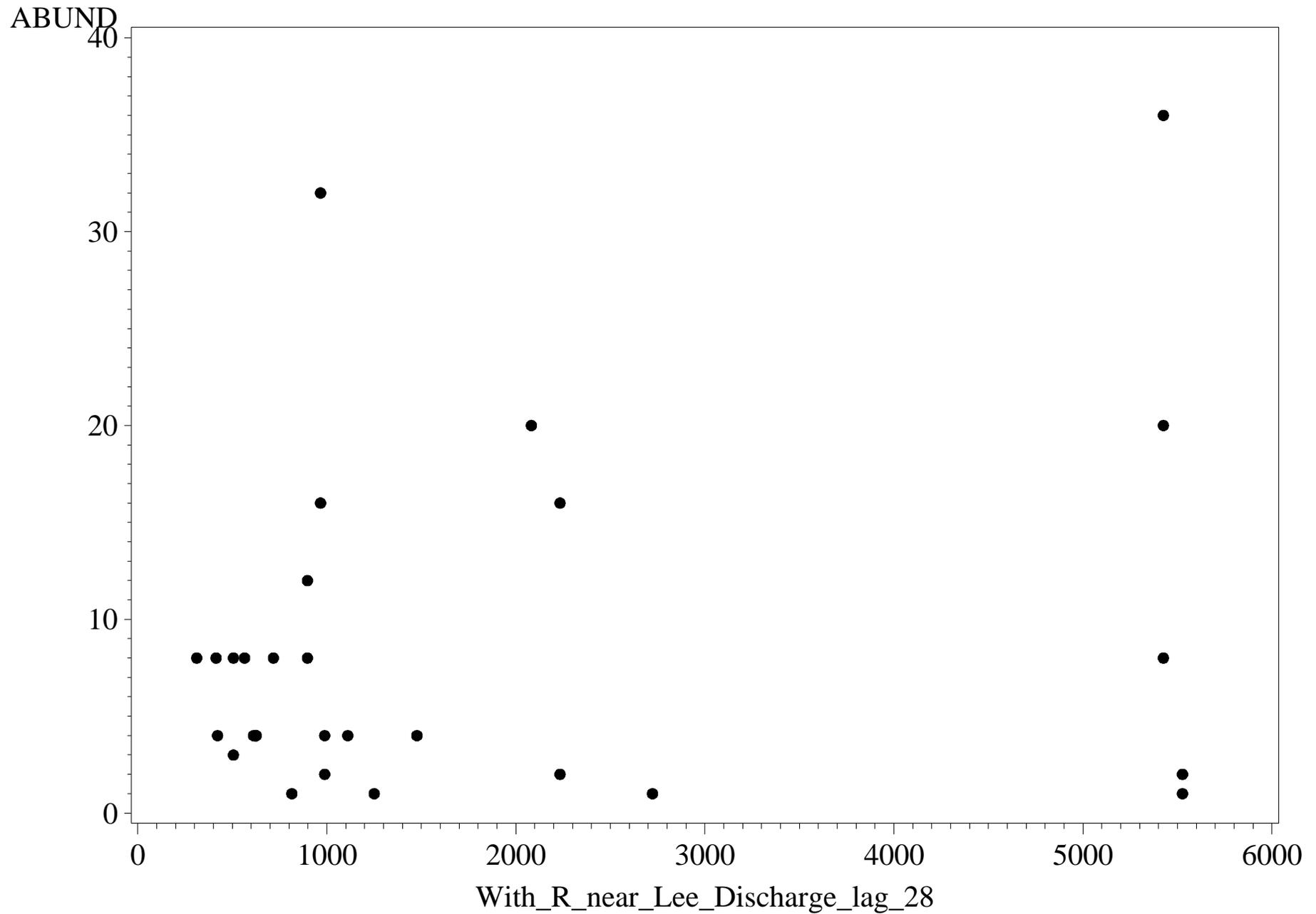
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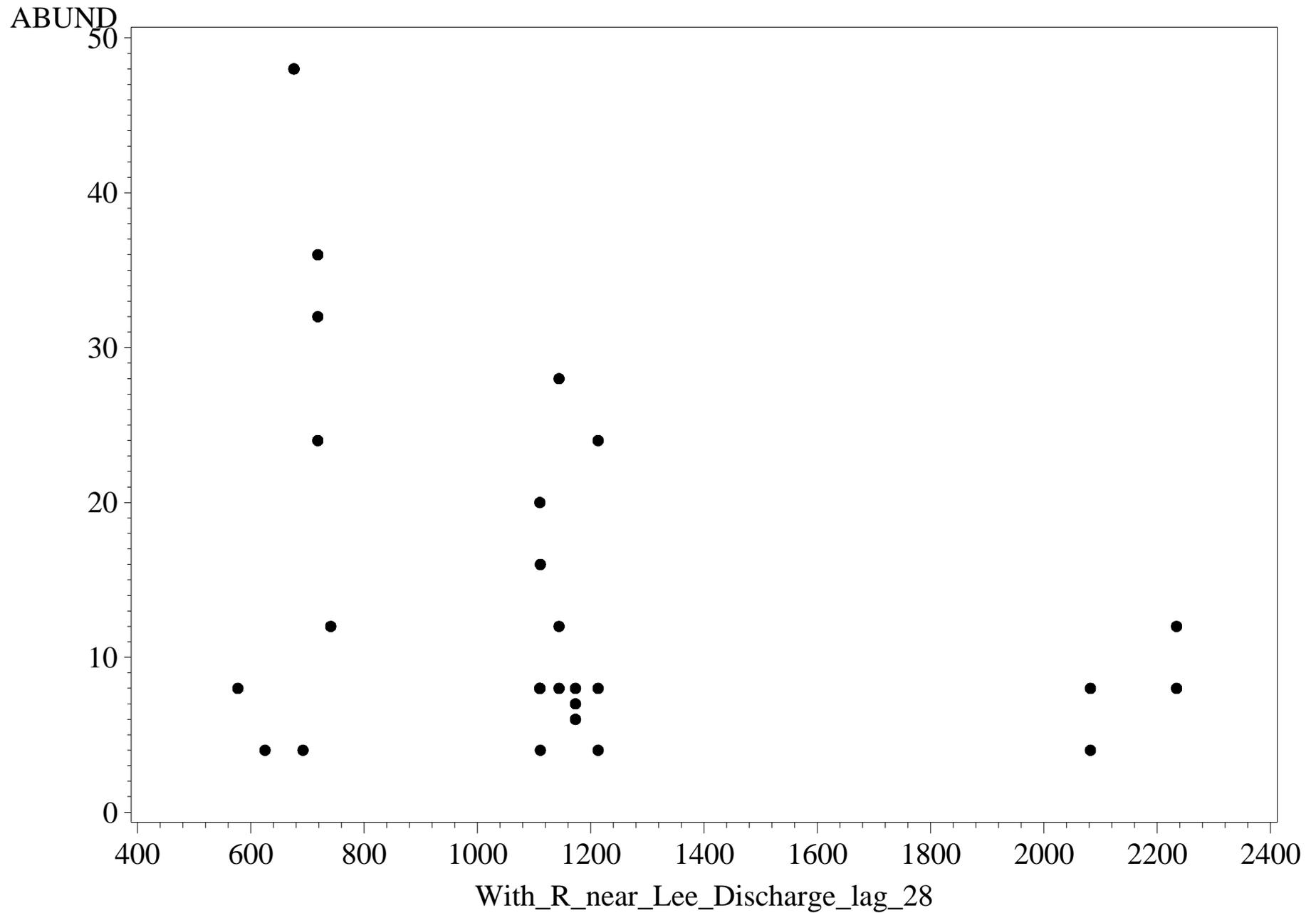
Individual Benthic Species vs. 28 Day Lag of Estimated Withlacoochee Flow (at Lee)
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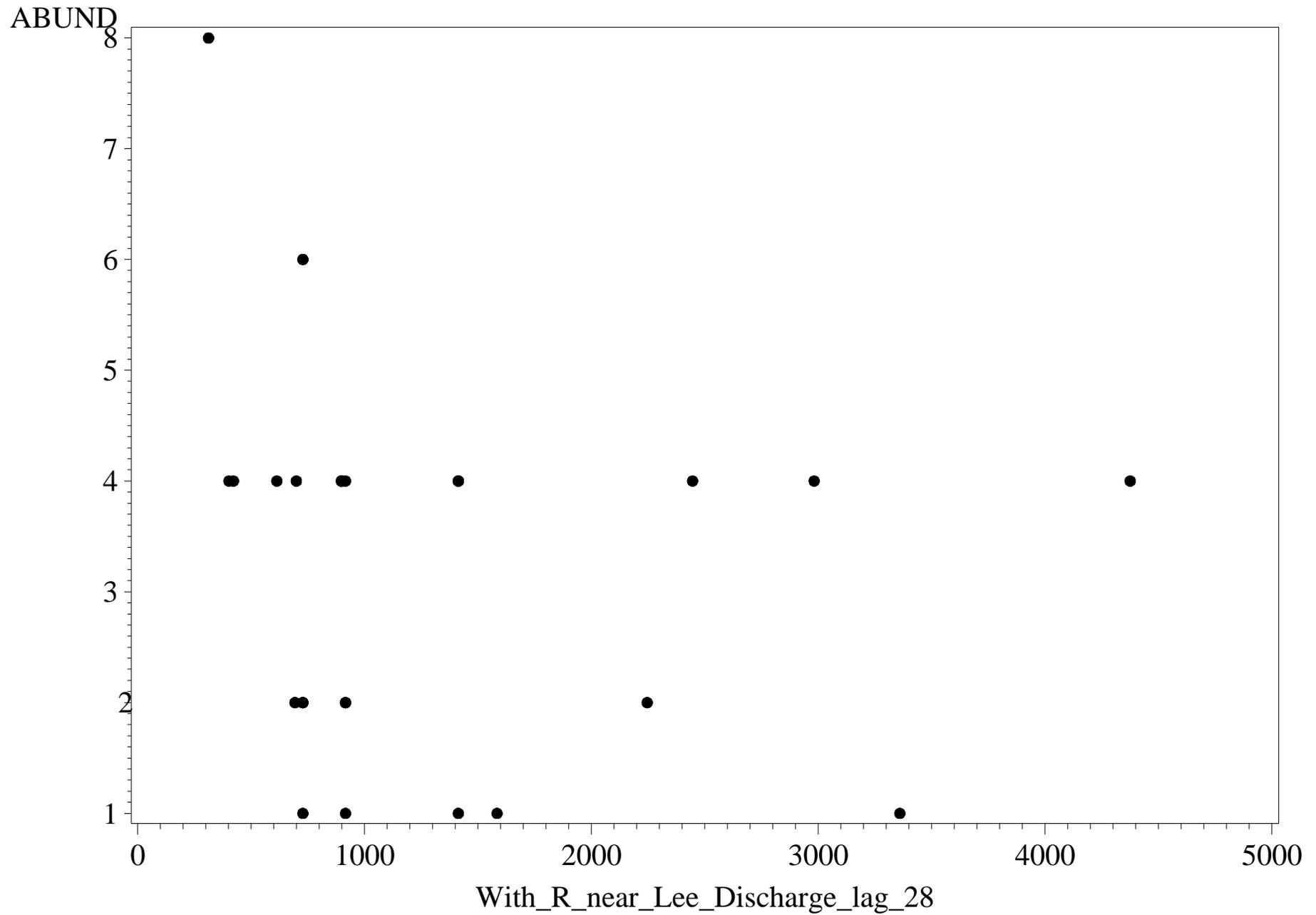
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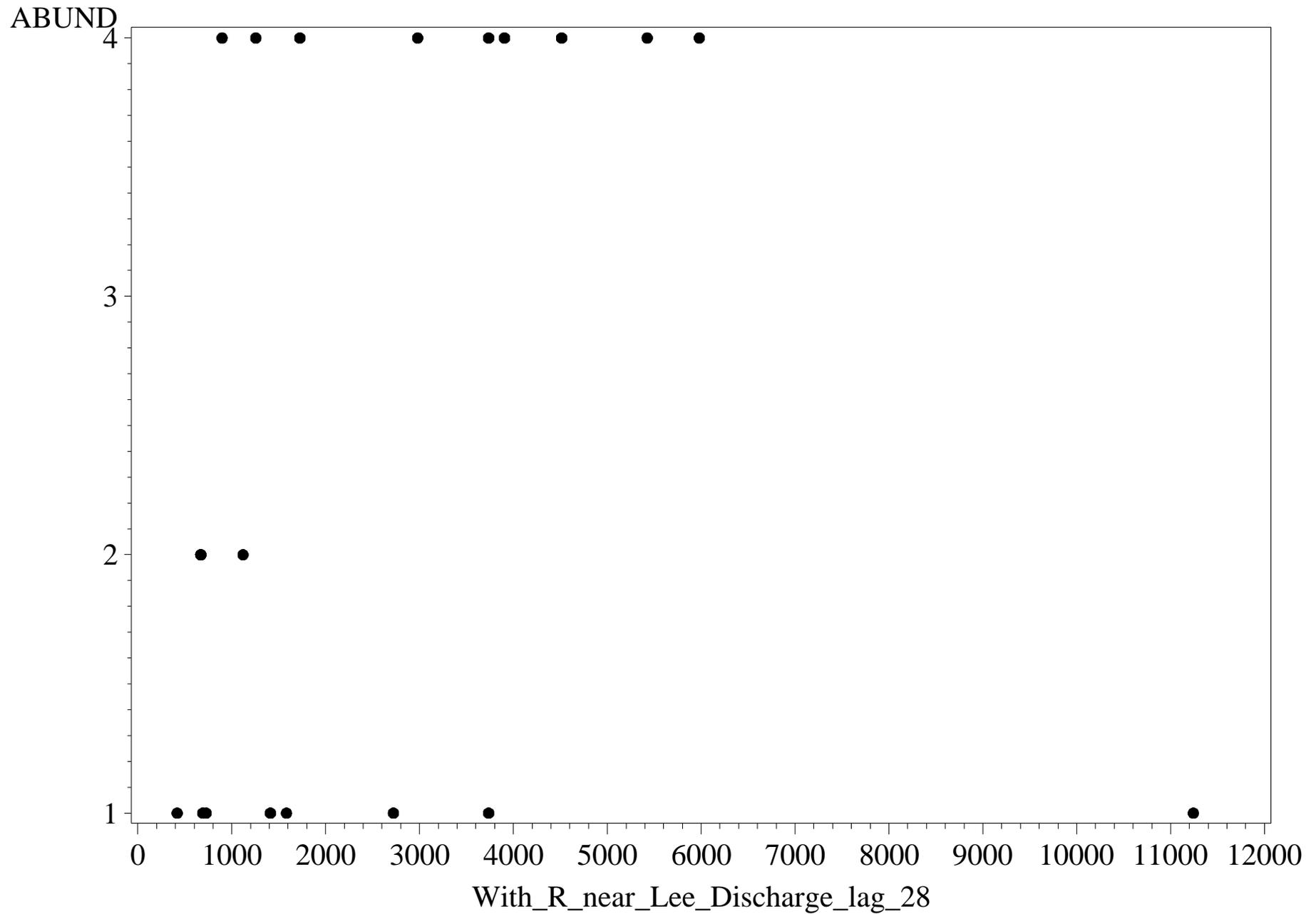
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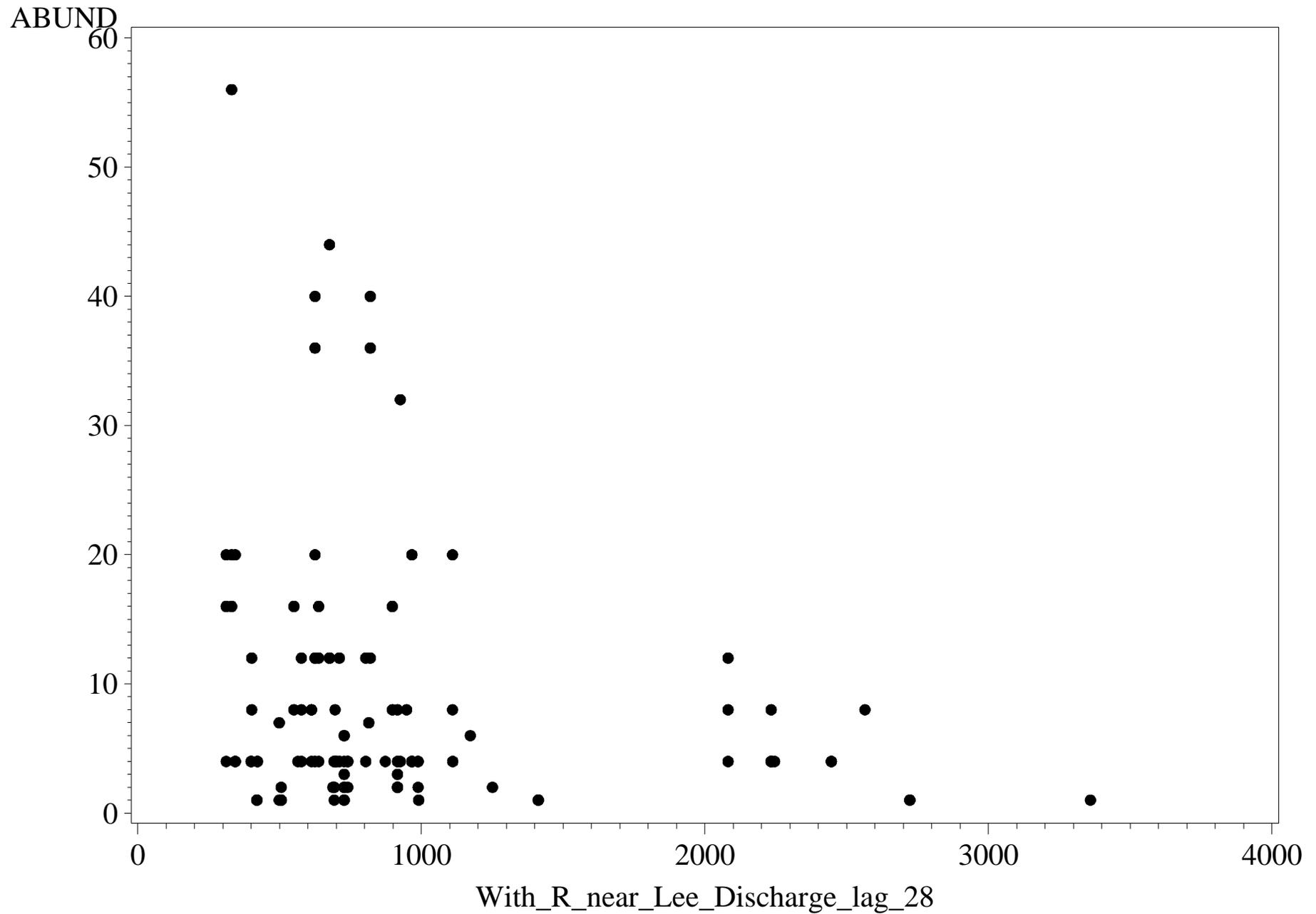
Individual Benthic Species vs. 28 Day Lag of Estimated Withlacoochee Flow (at Lee)
name=NECTOPSYCHE EXQUISITA



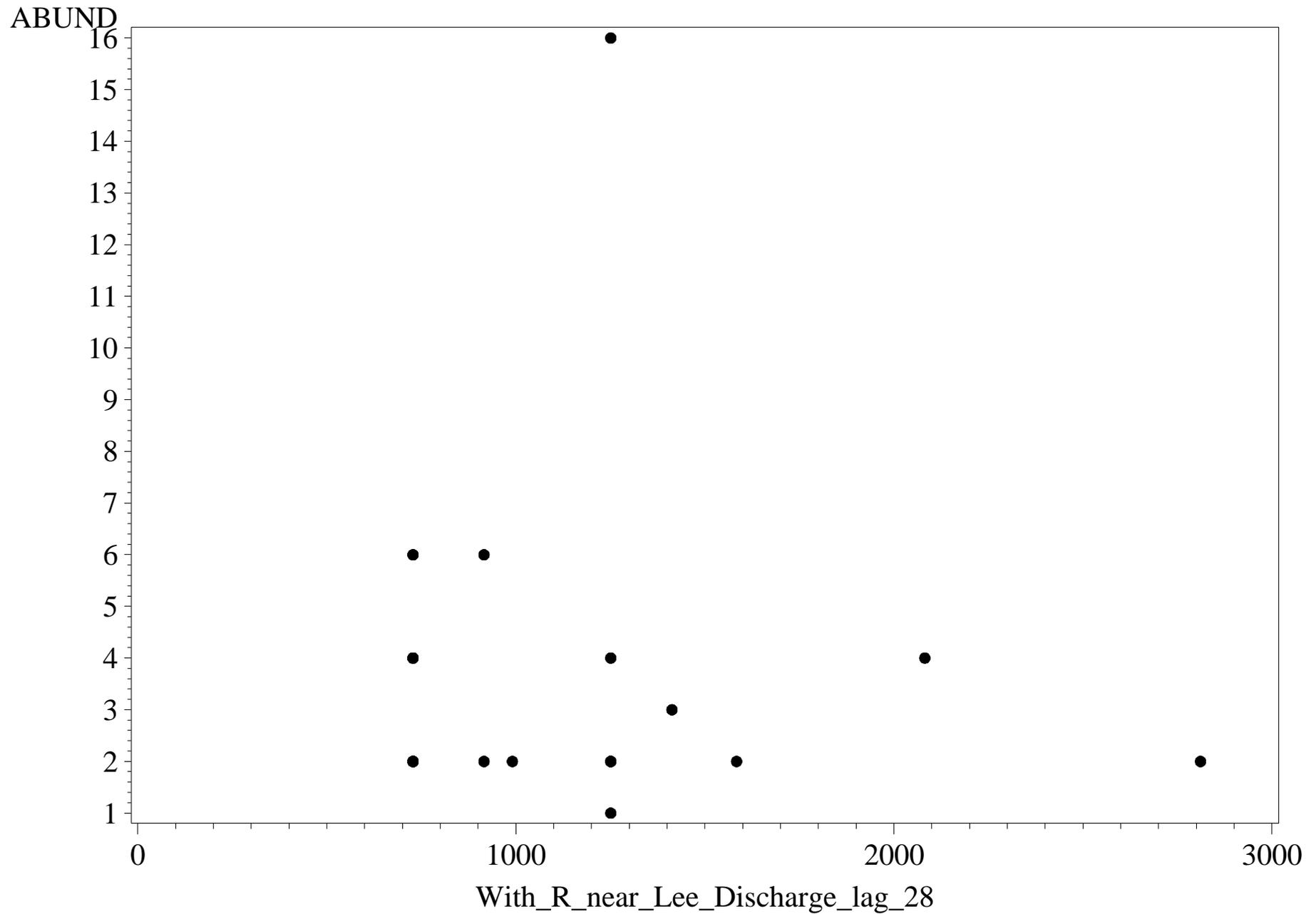
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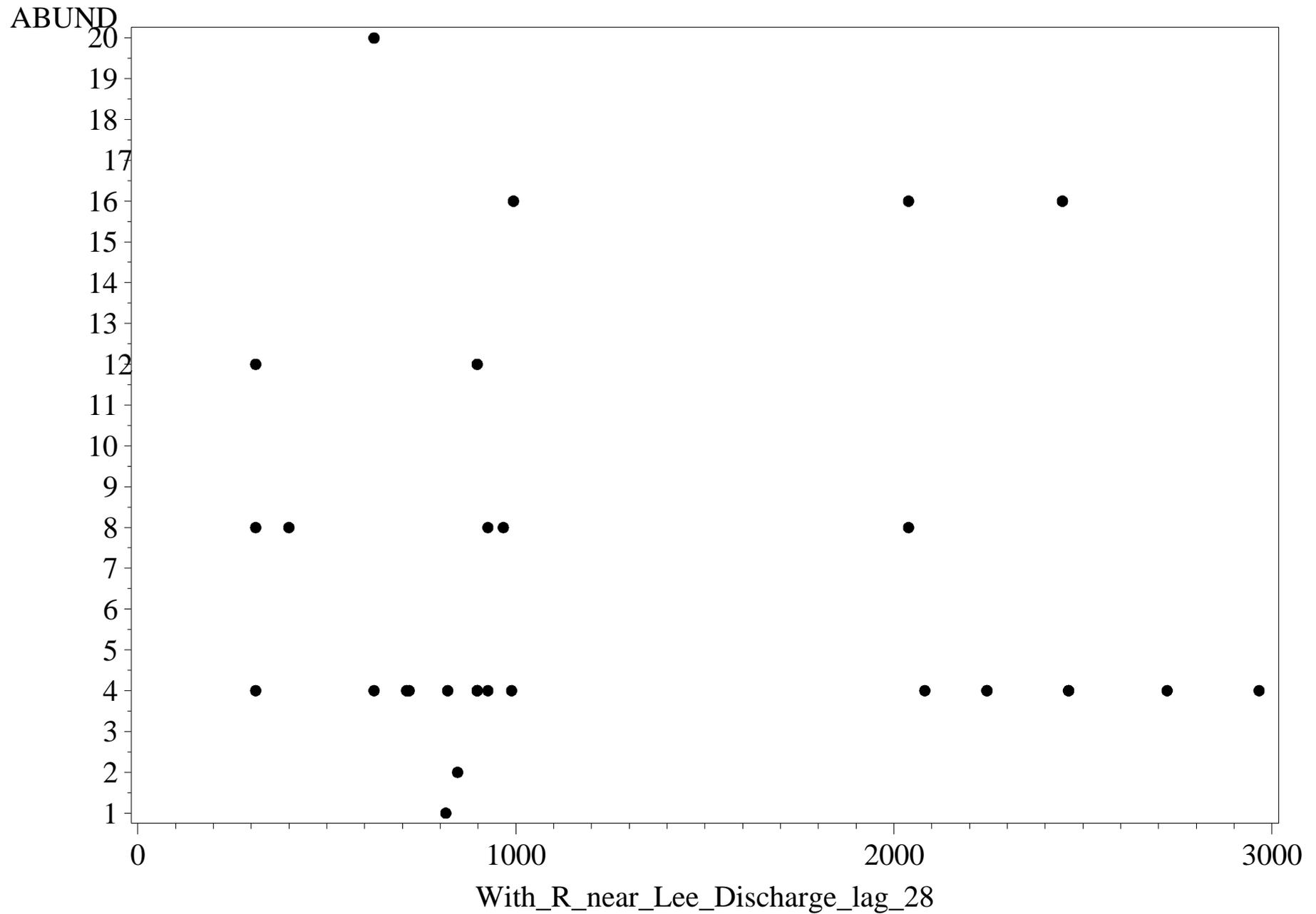
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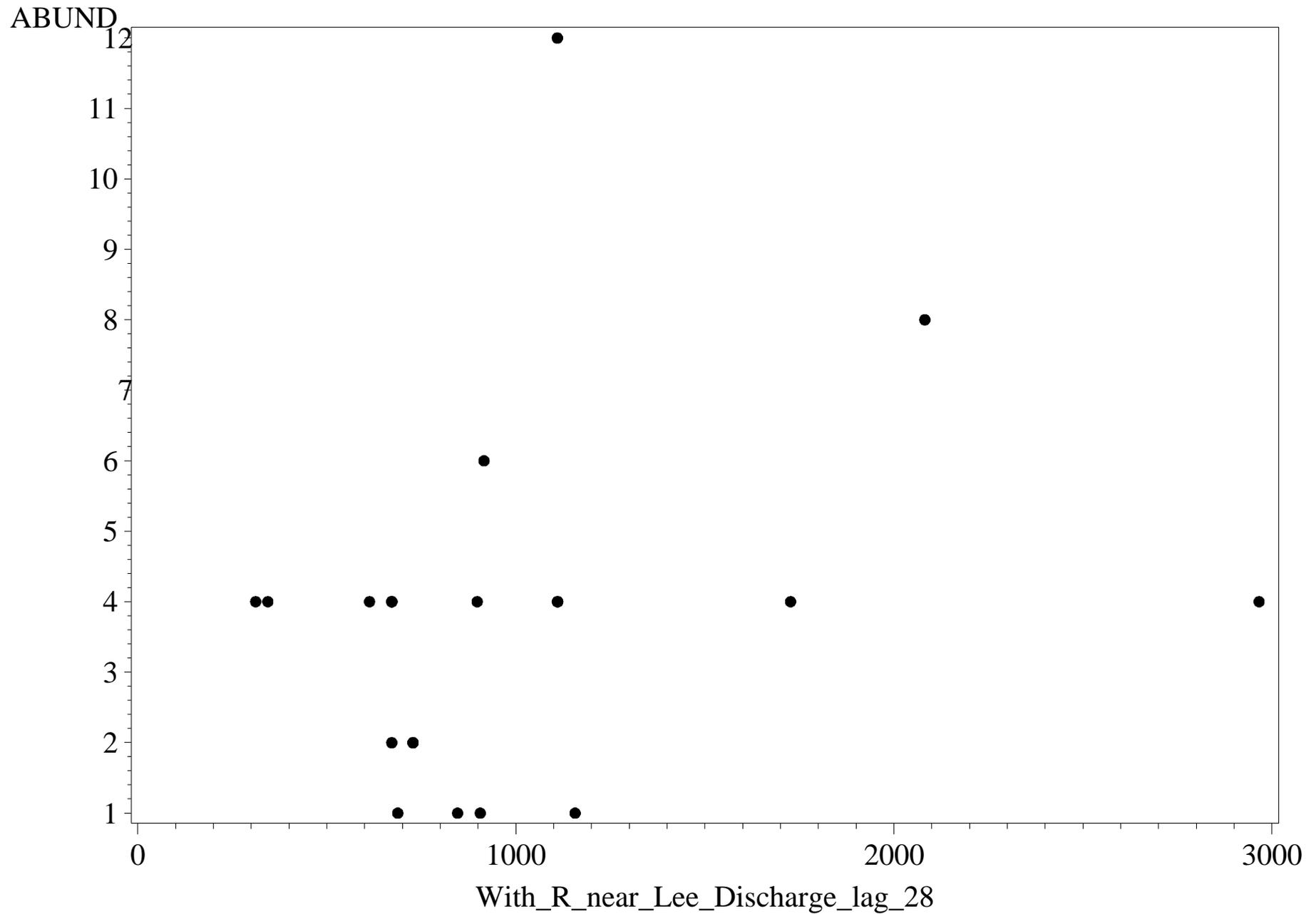
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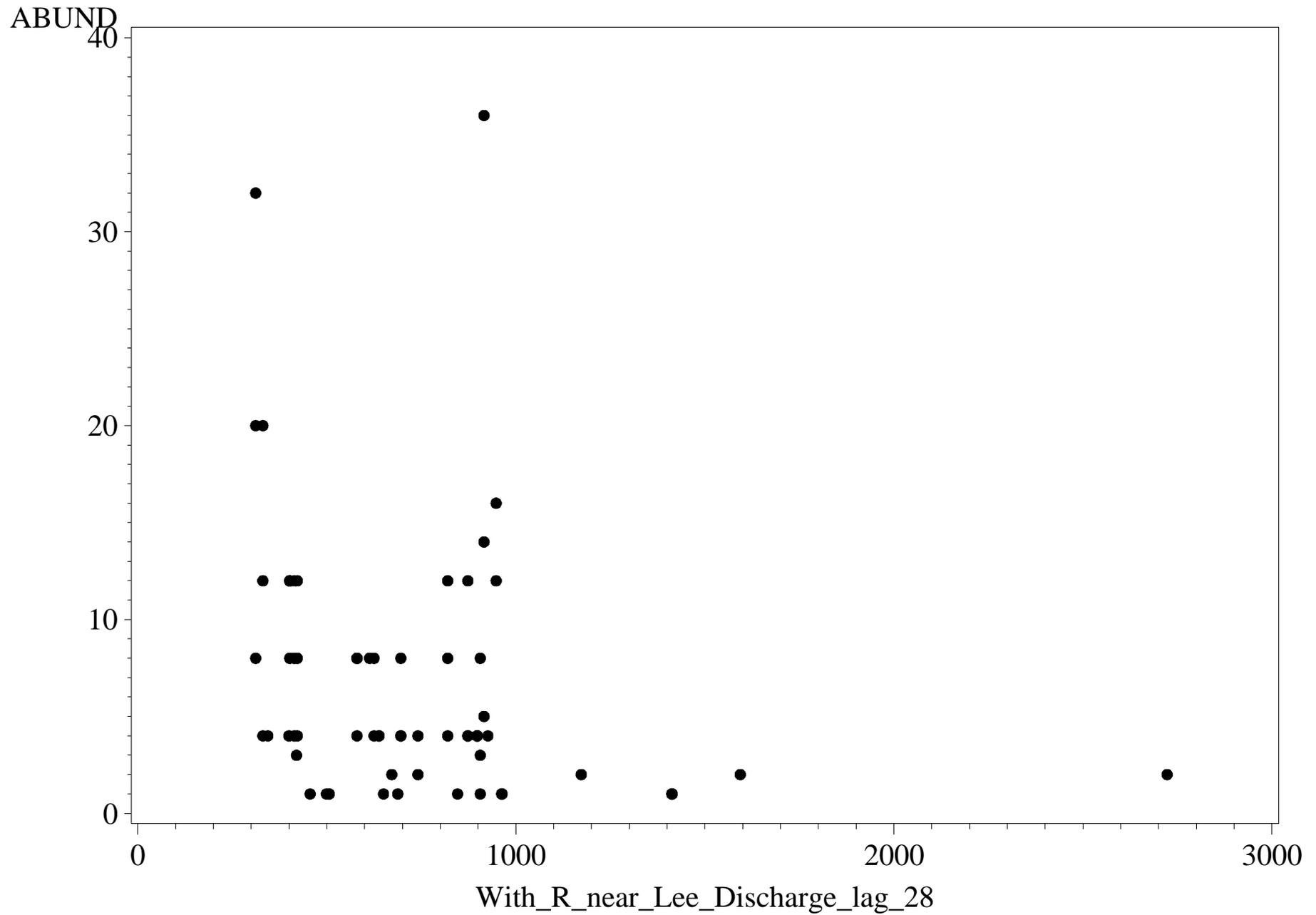
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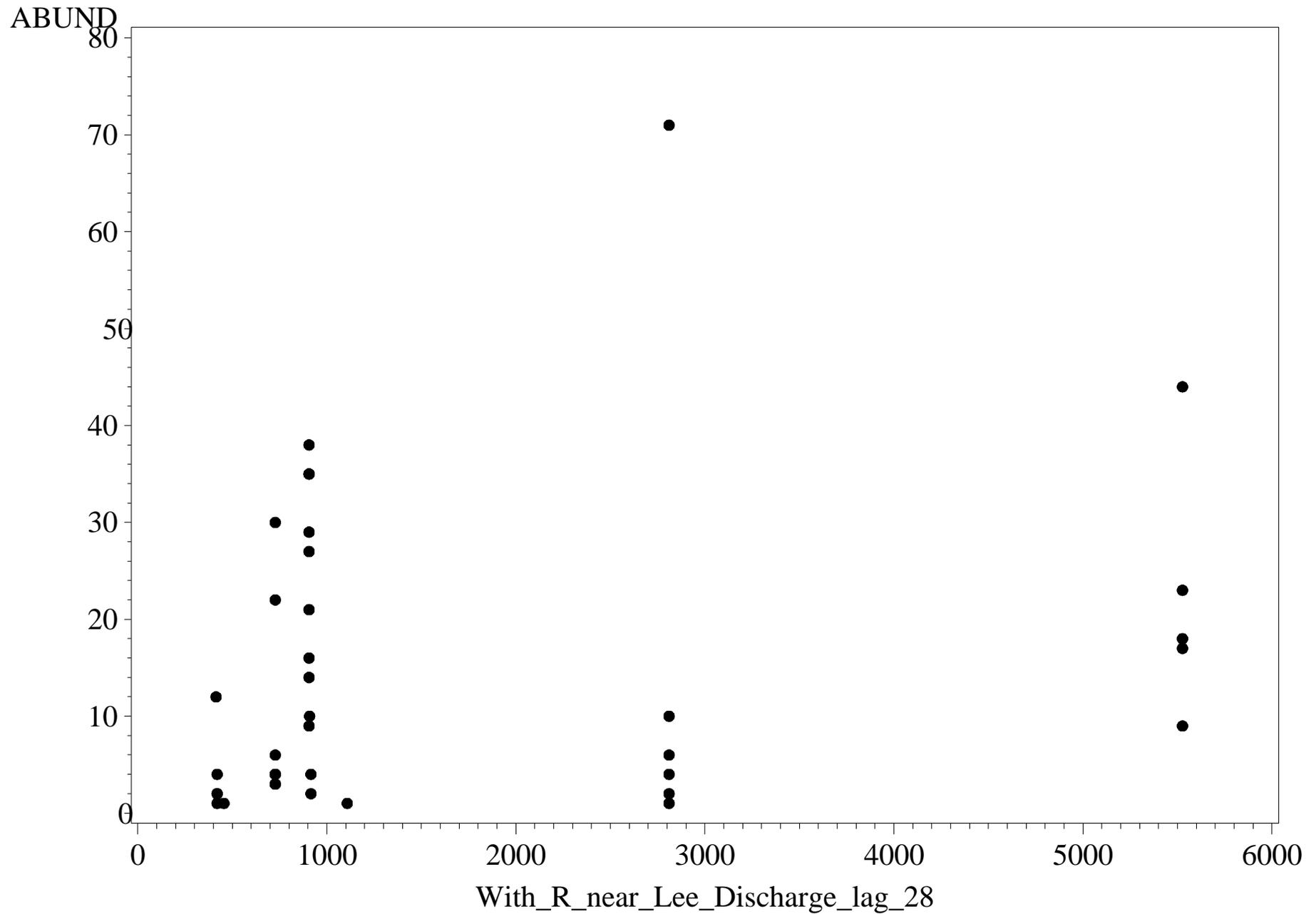
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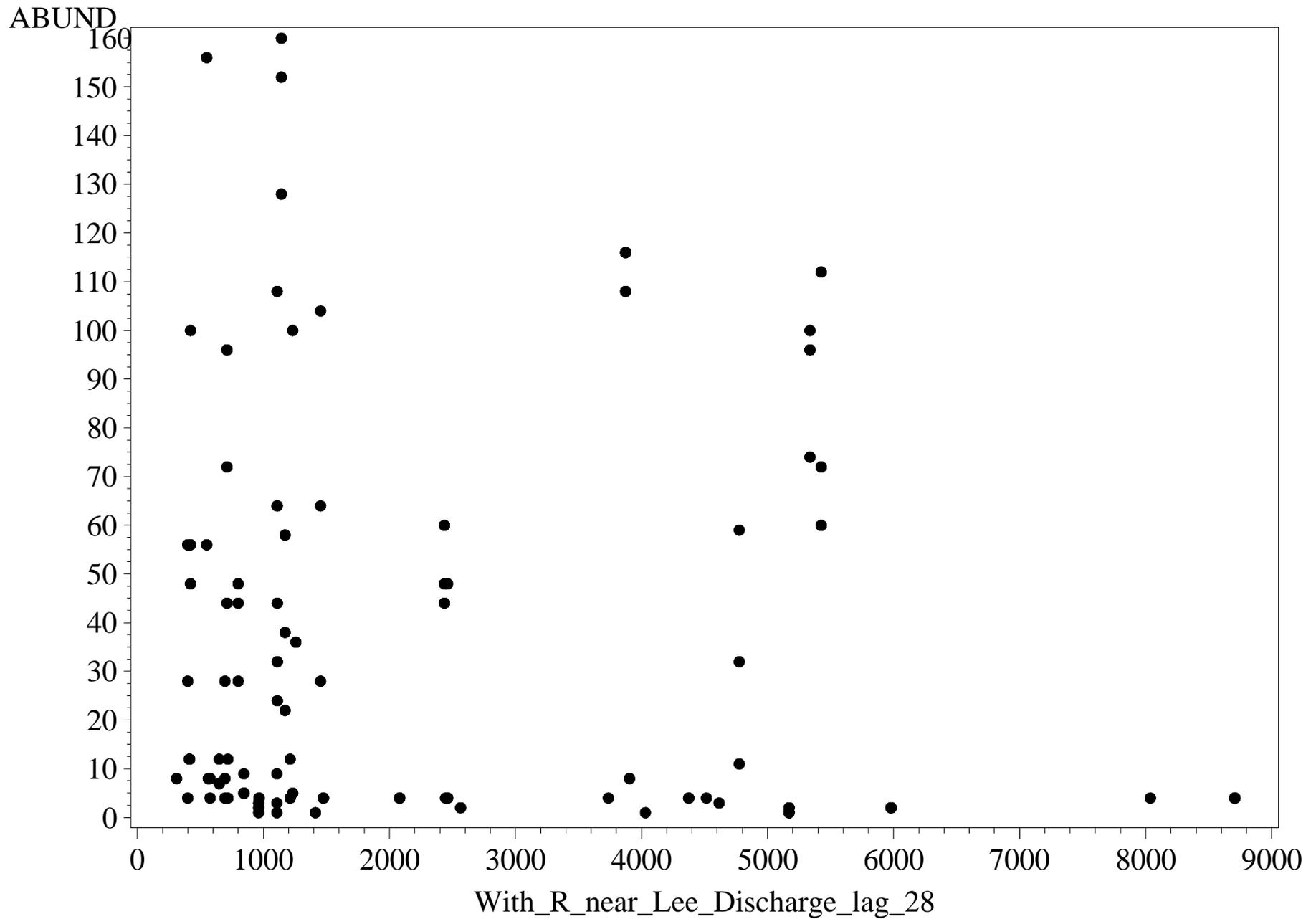
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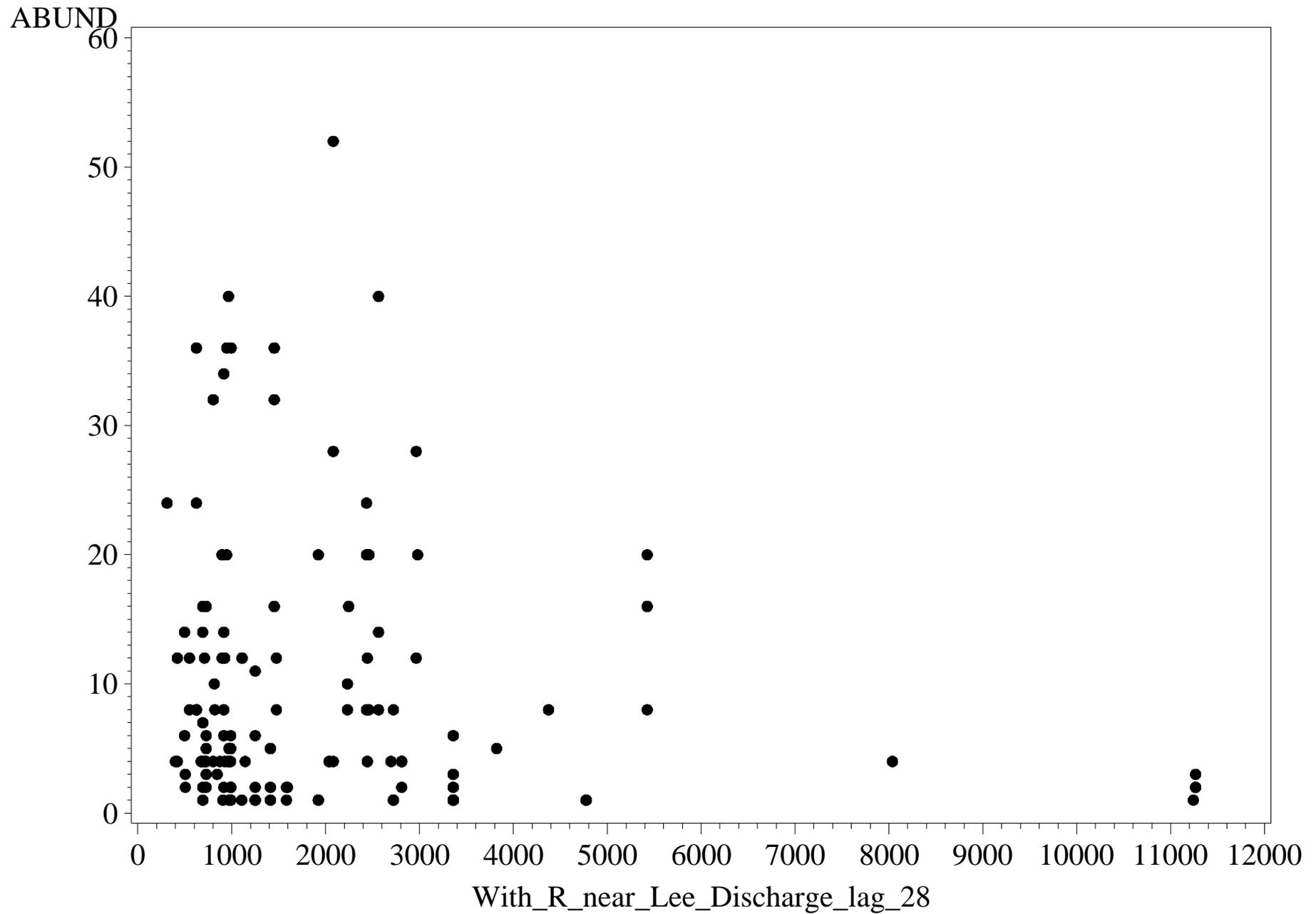
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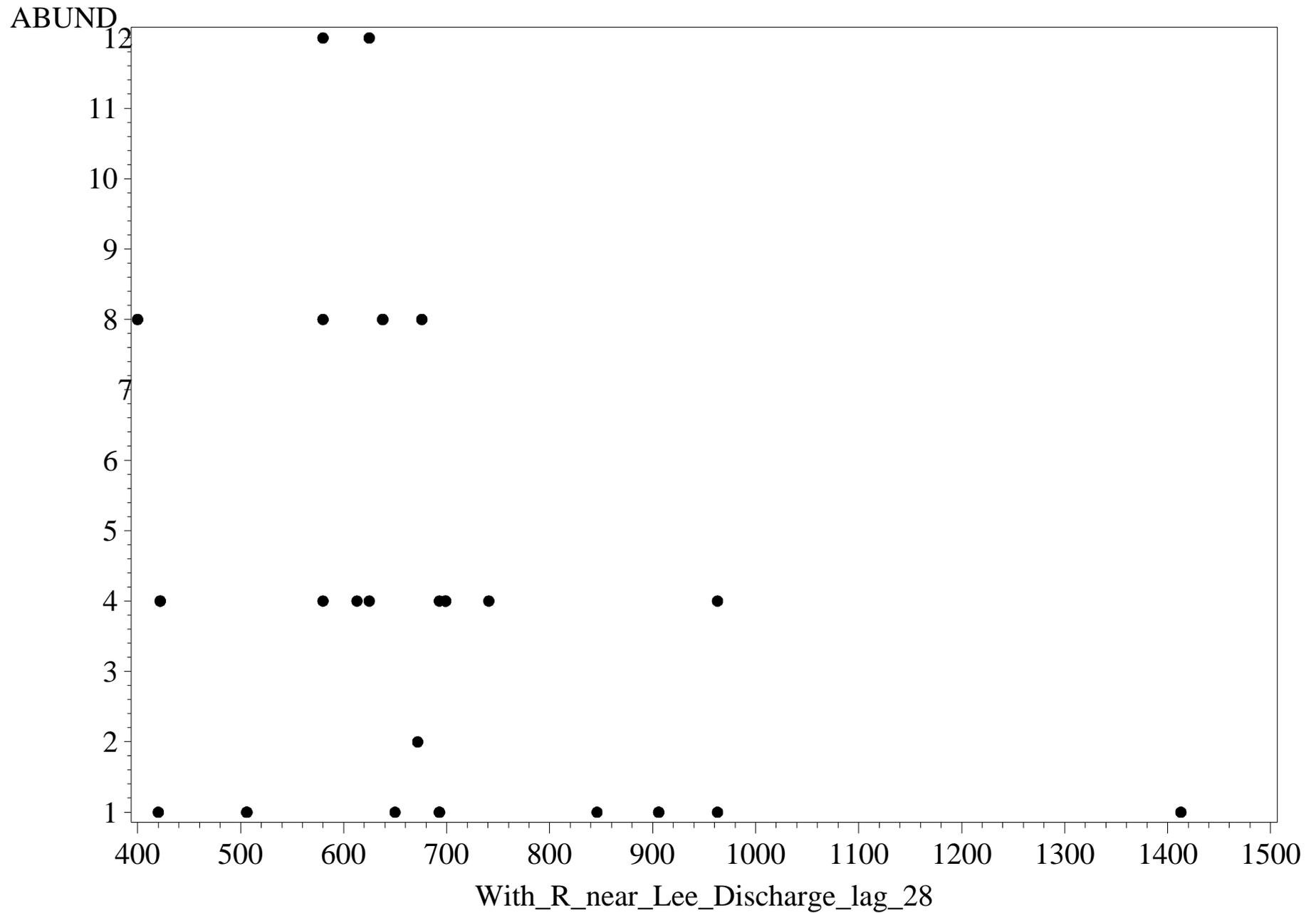
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name=PARAKIEFFERIELLA SP. B



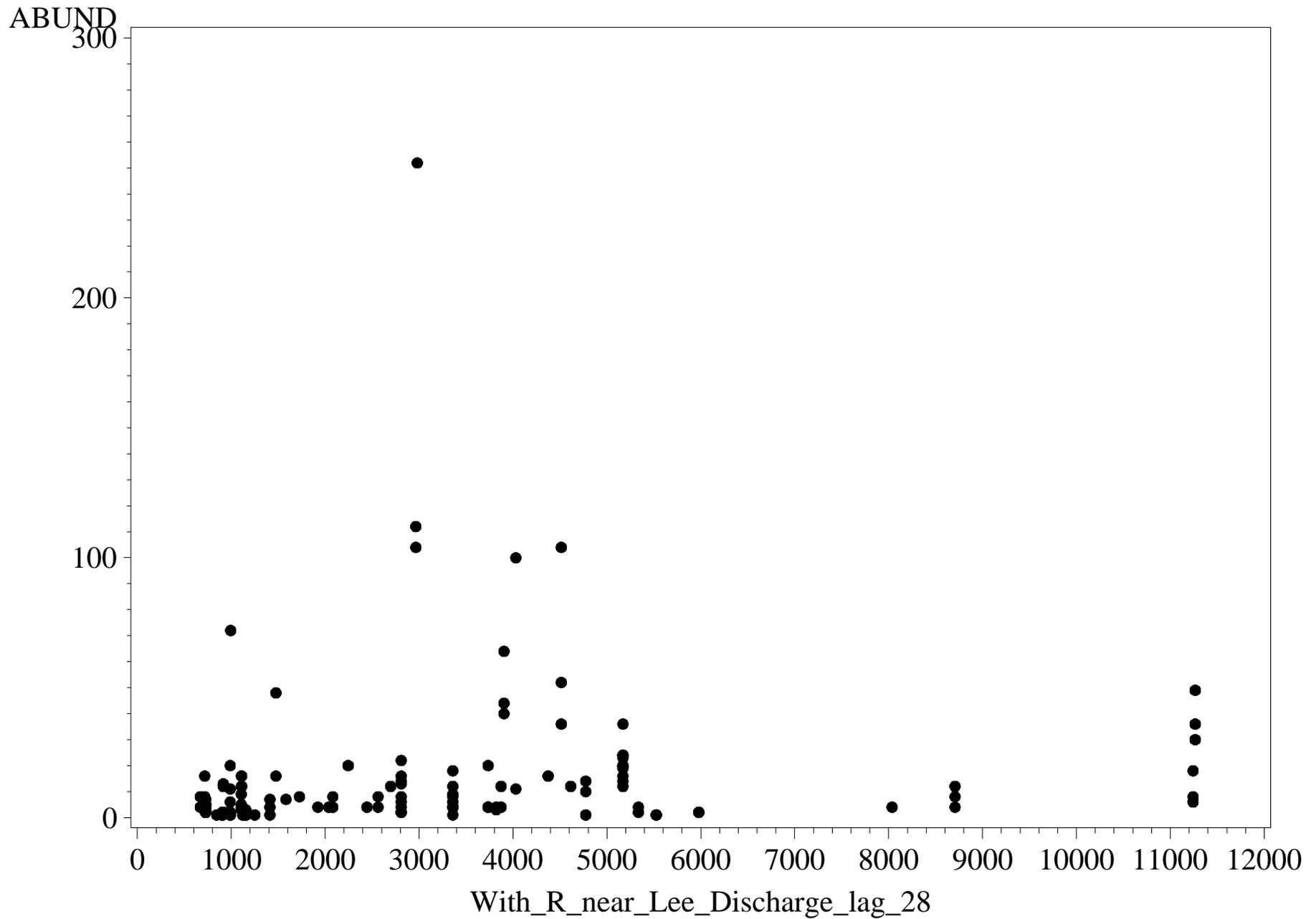
Individual Benthic Species vs. 28 Day Lag of Estimated Withlacoochee Flow (at Lee)
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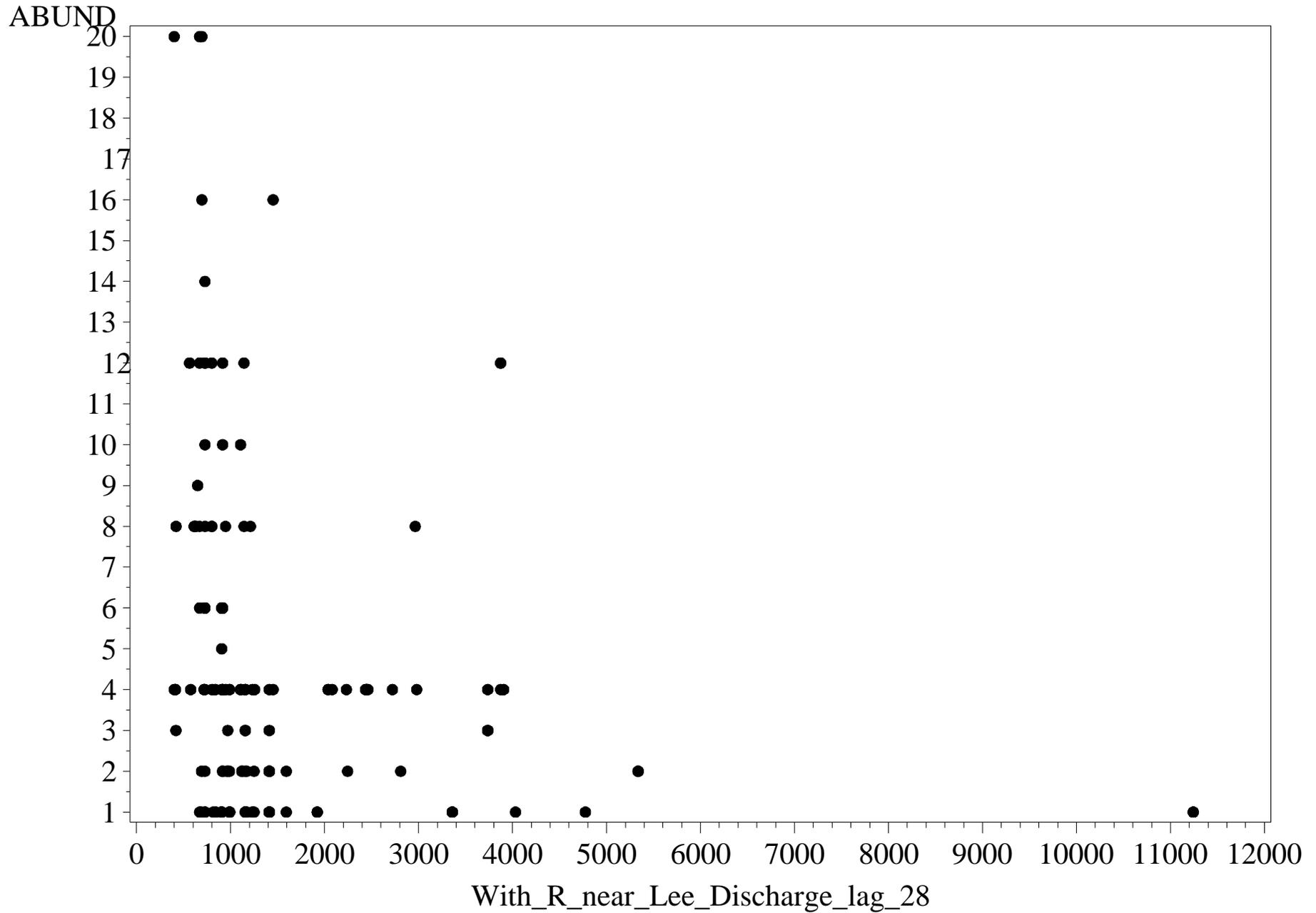
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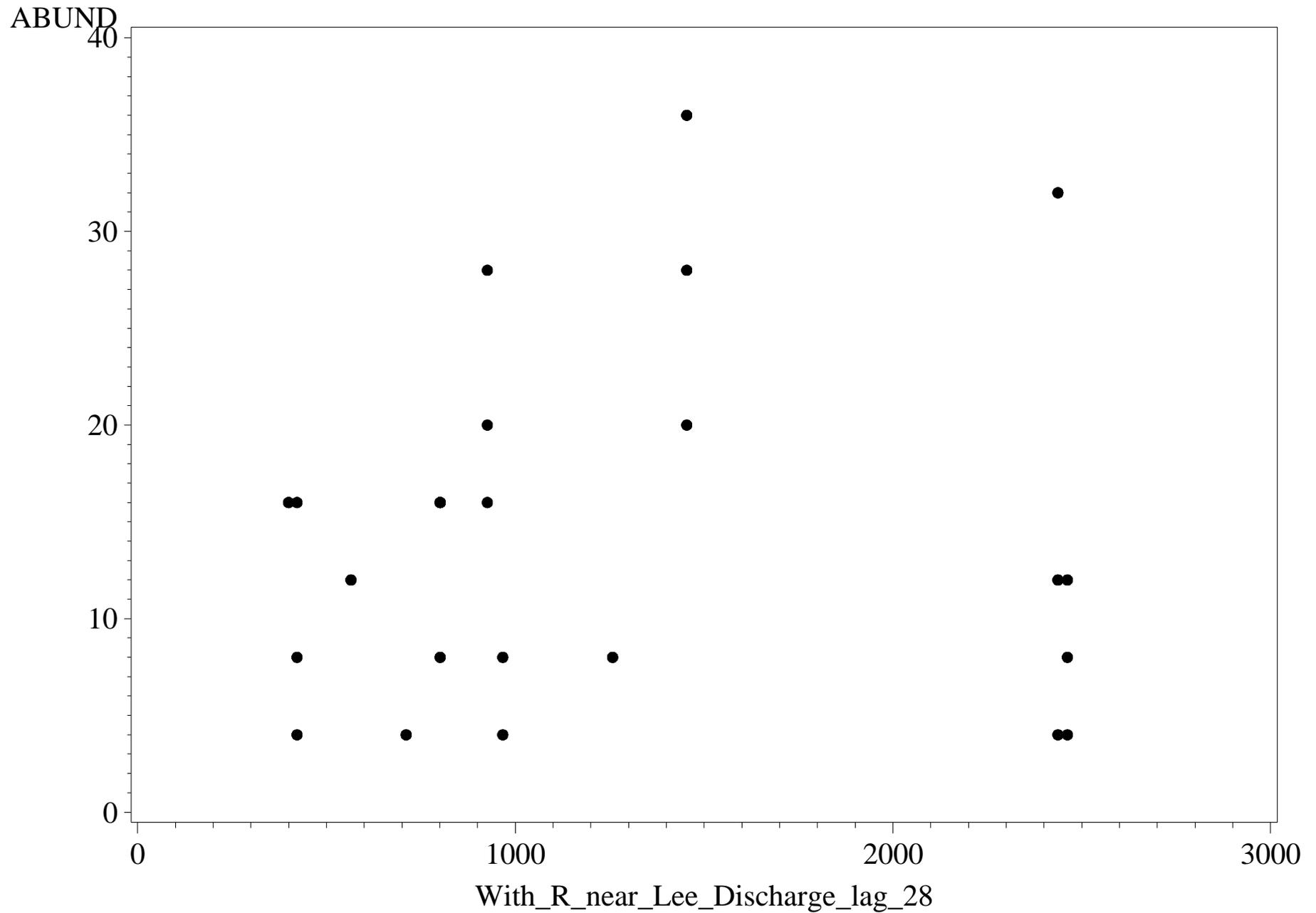
Individual Benthic Species vs. 28 Day Lag of Estimated Withlacoochee Flow (at Lee)
name=POLYPEDILUM CONVICTUM



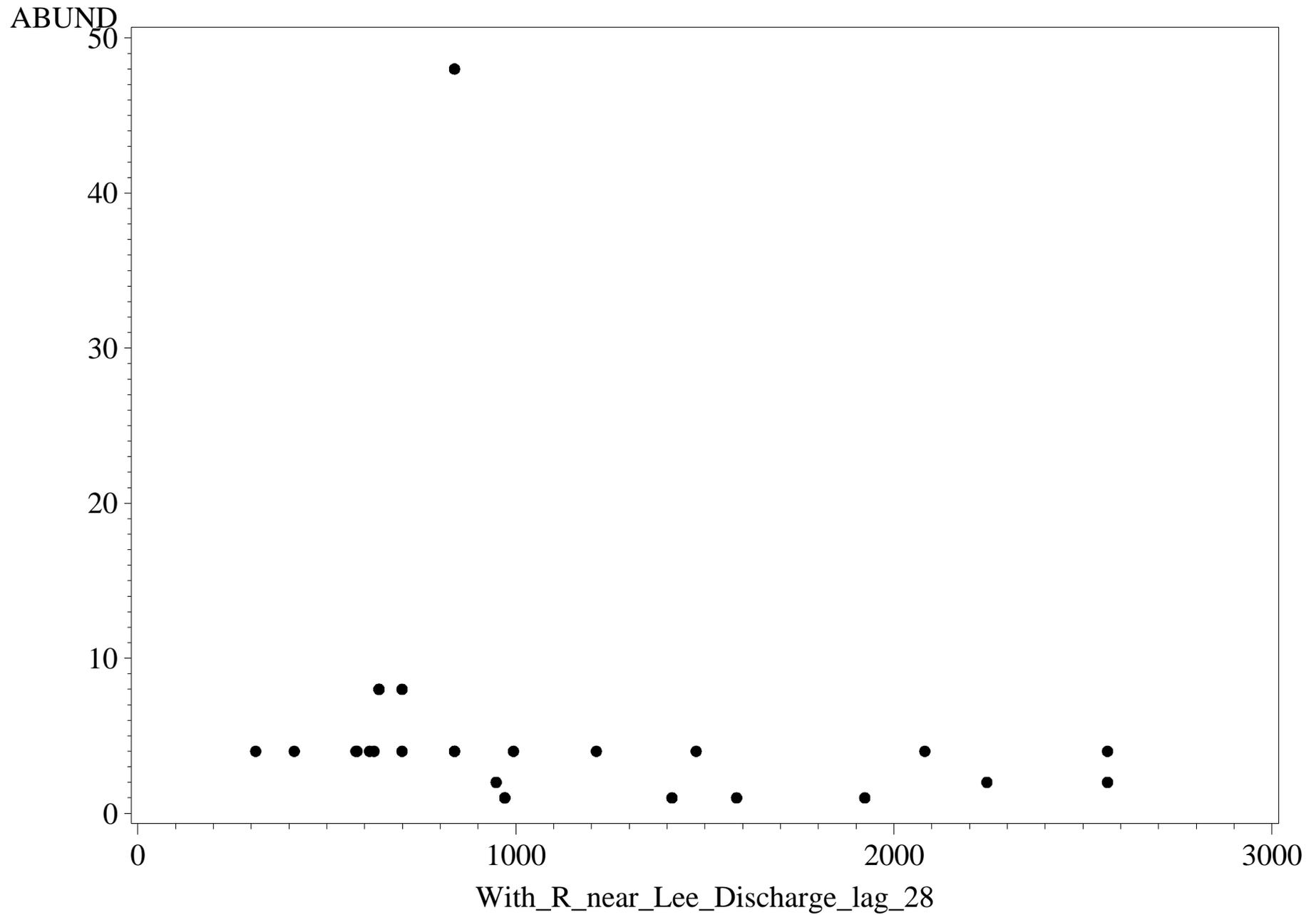
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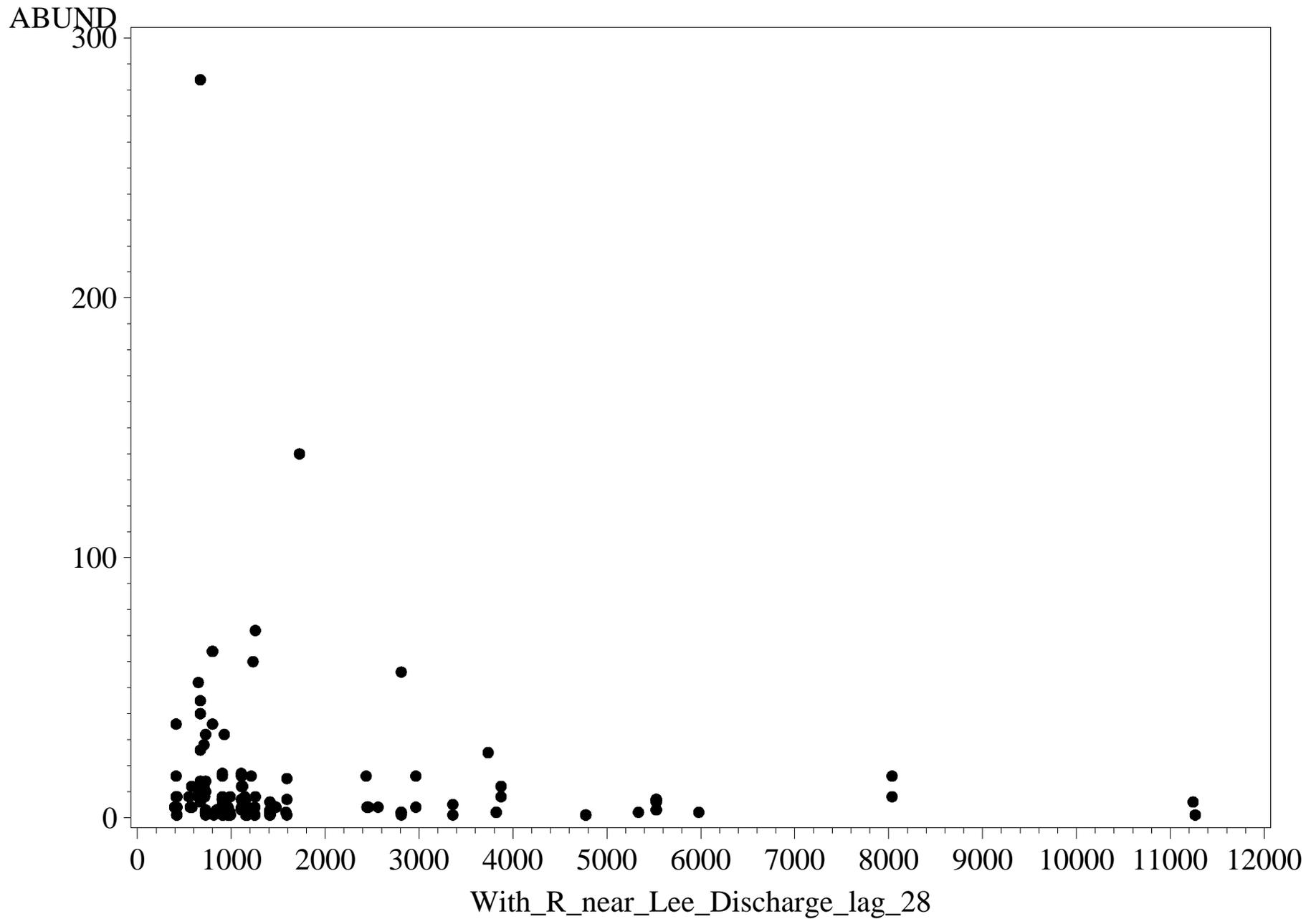
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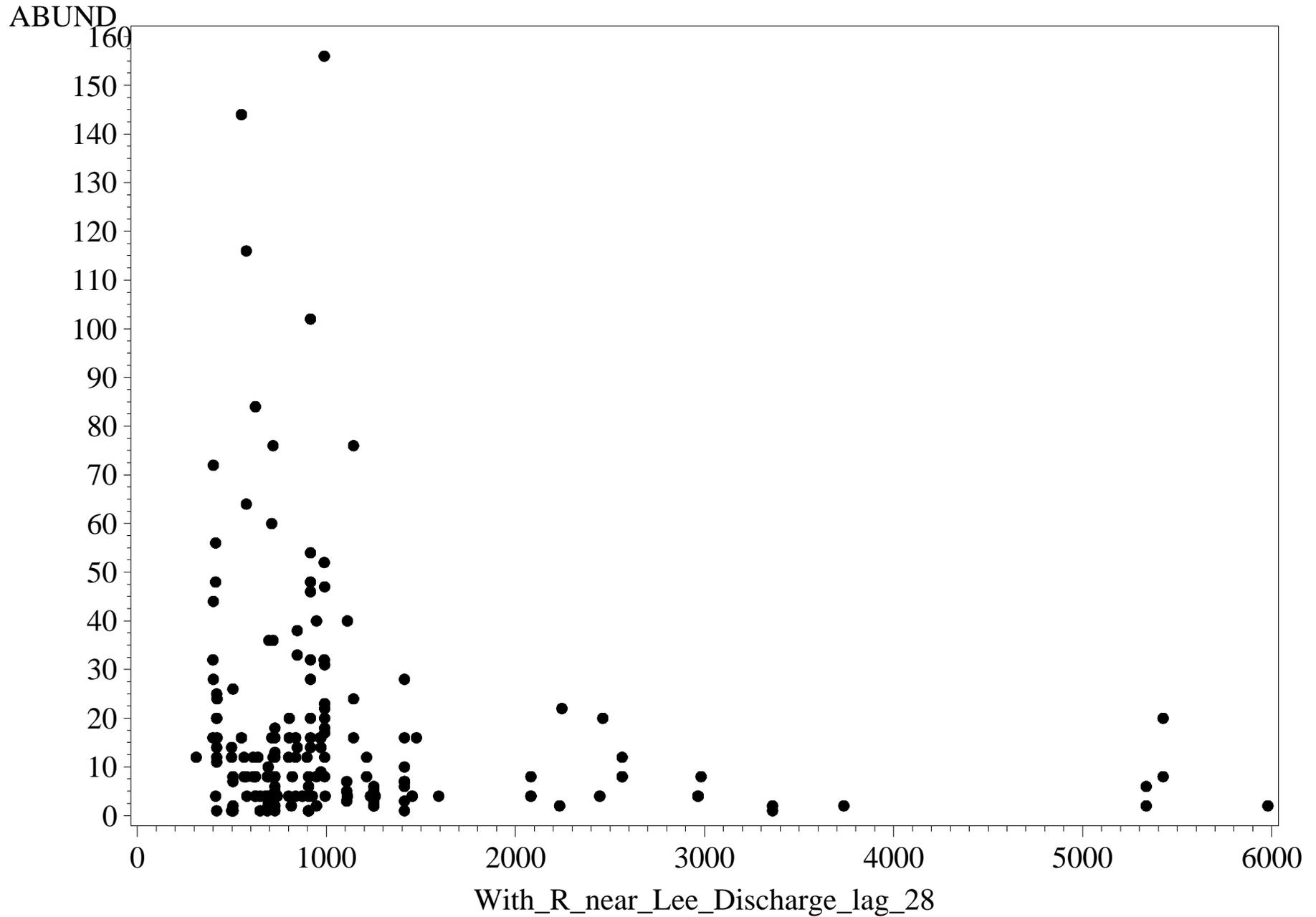
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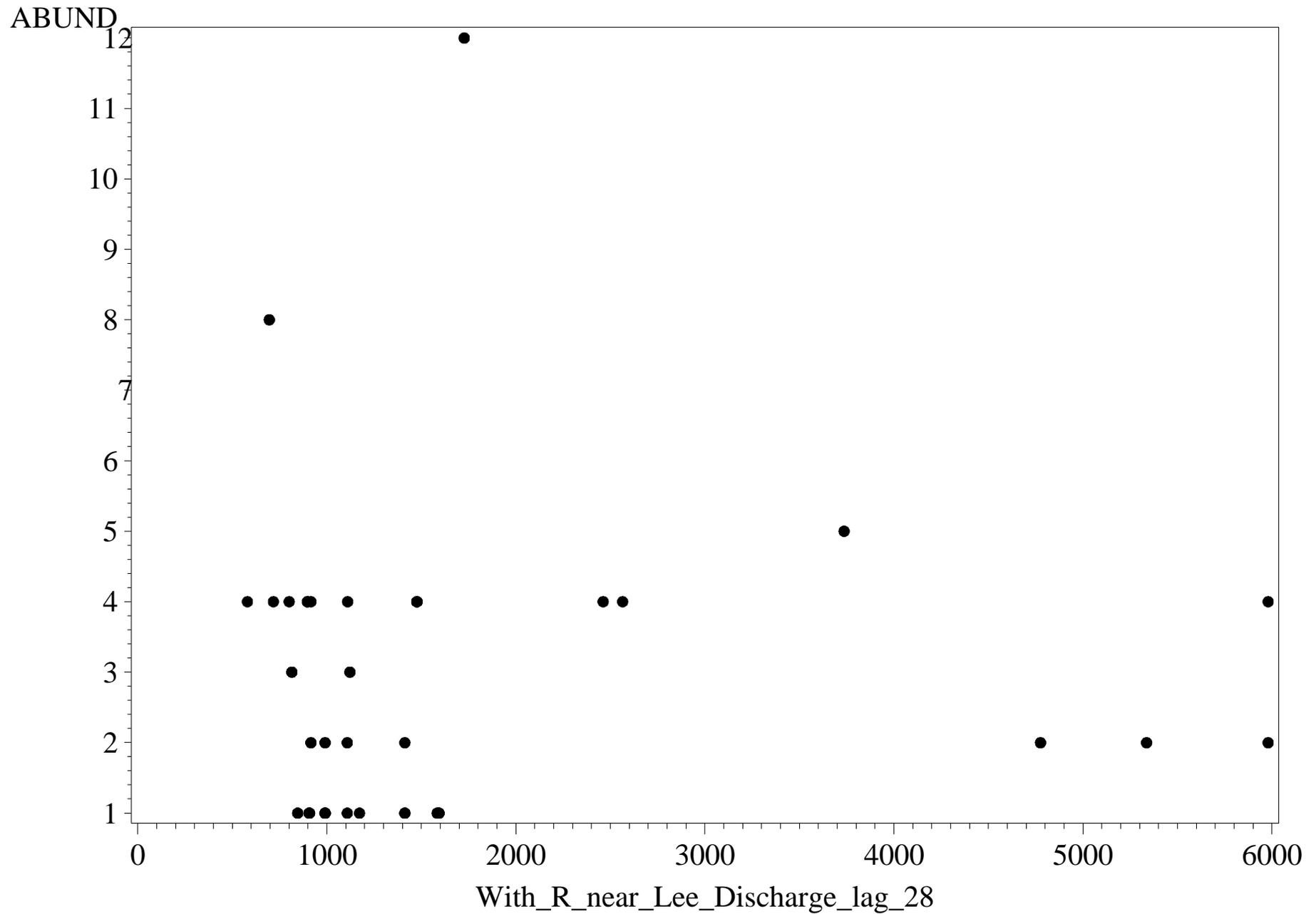
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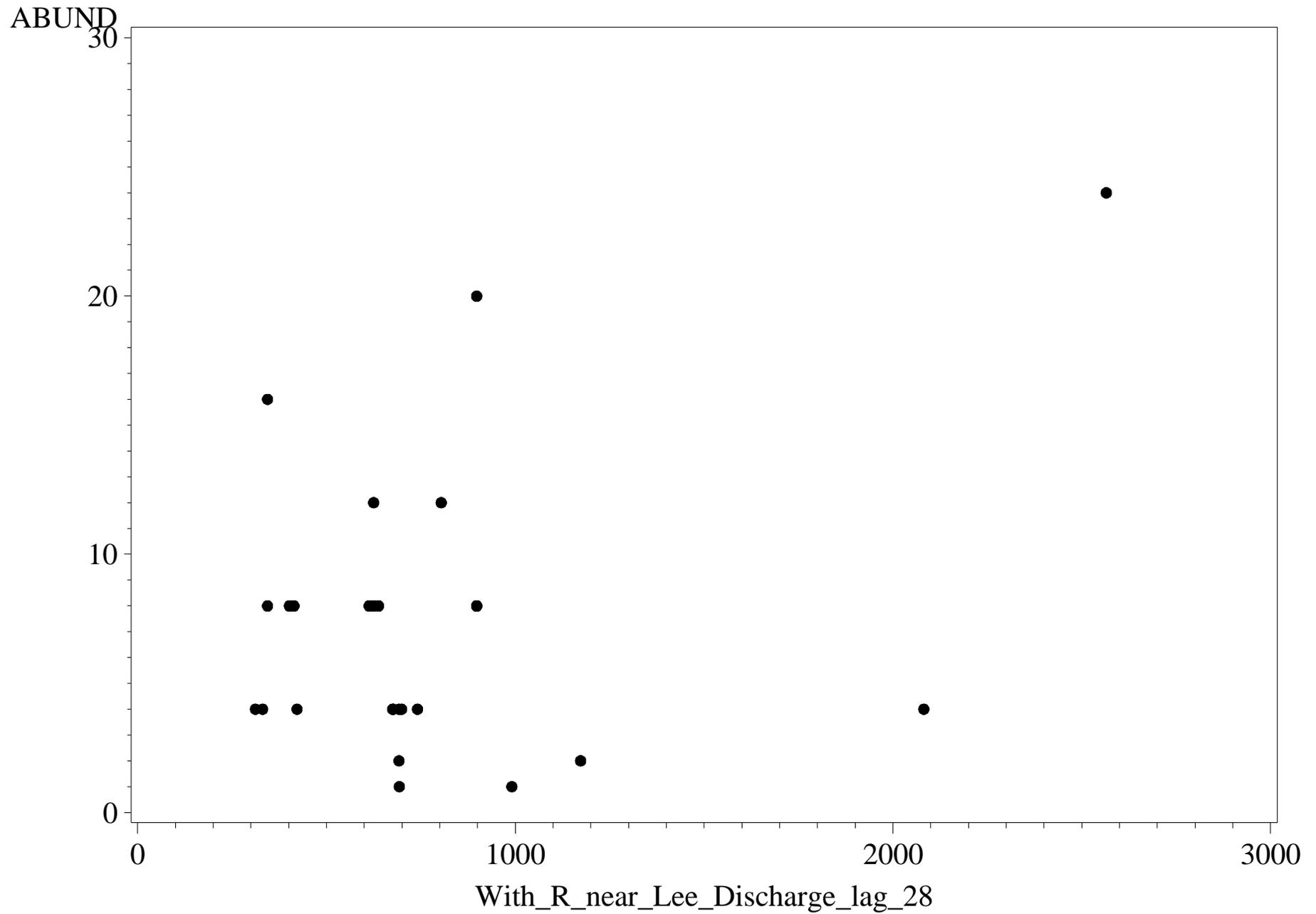
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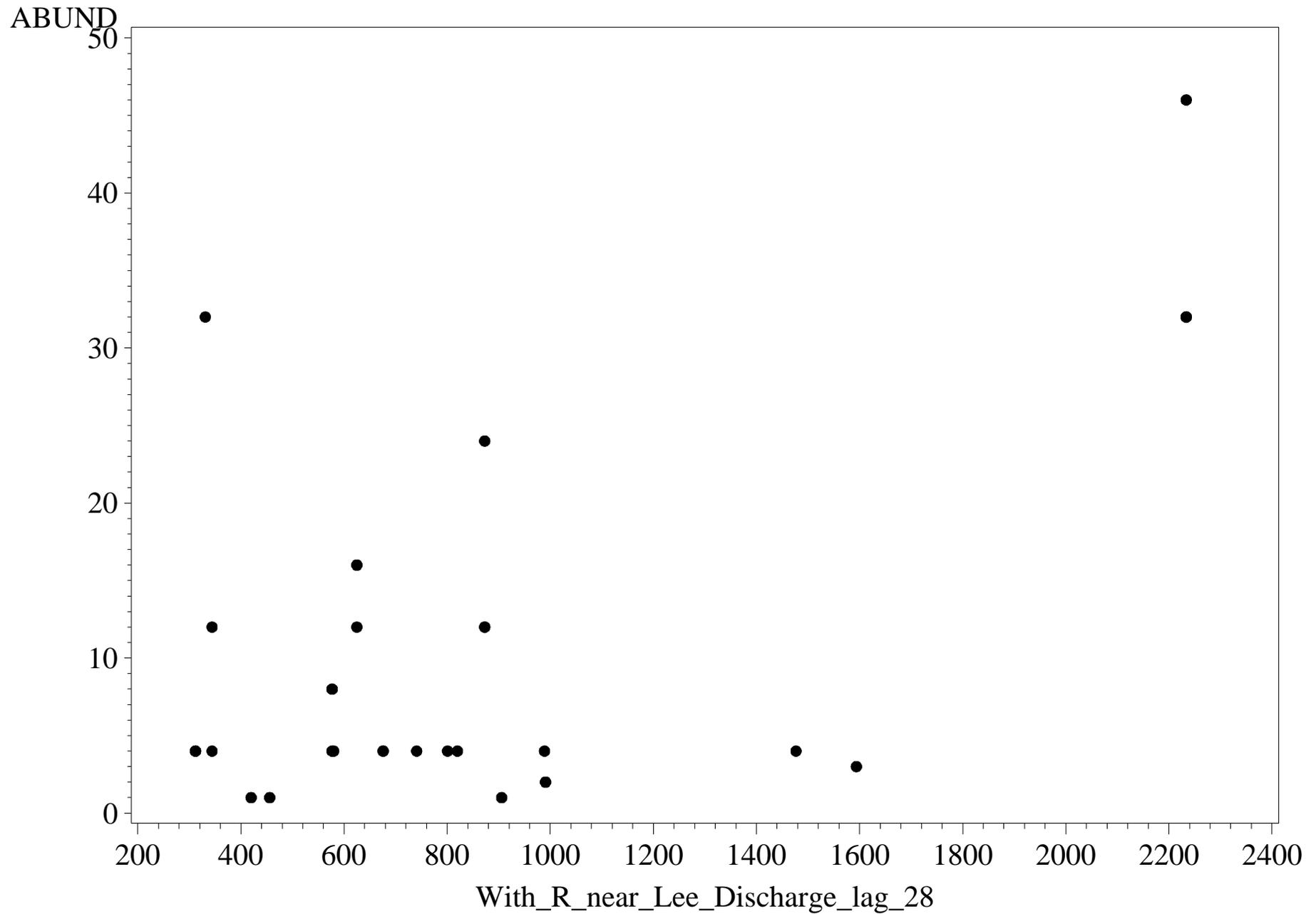
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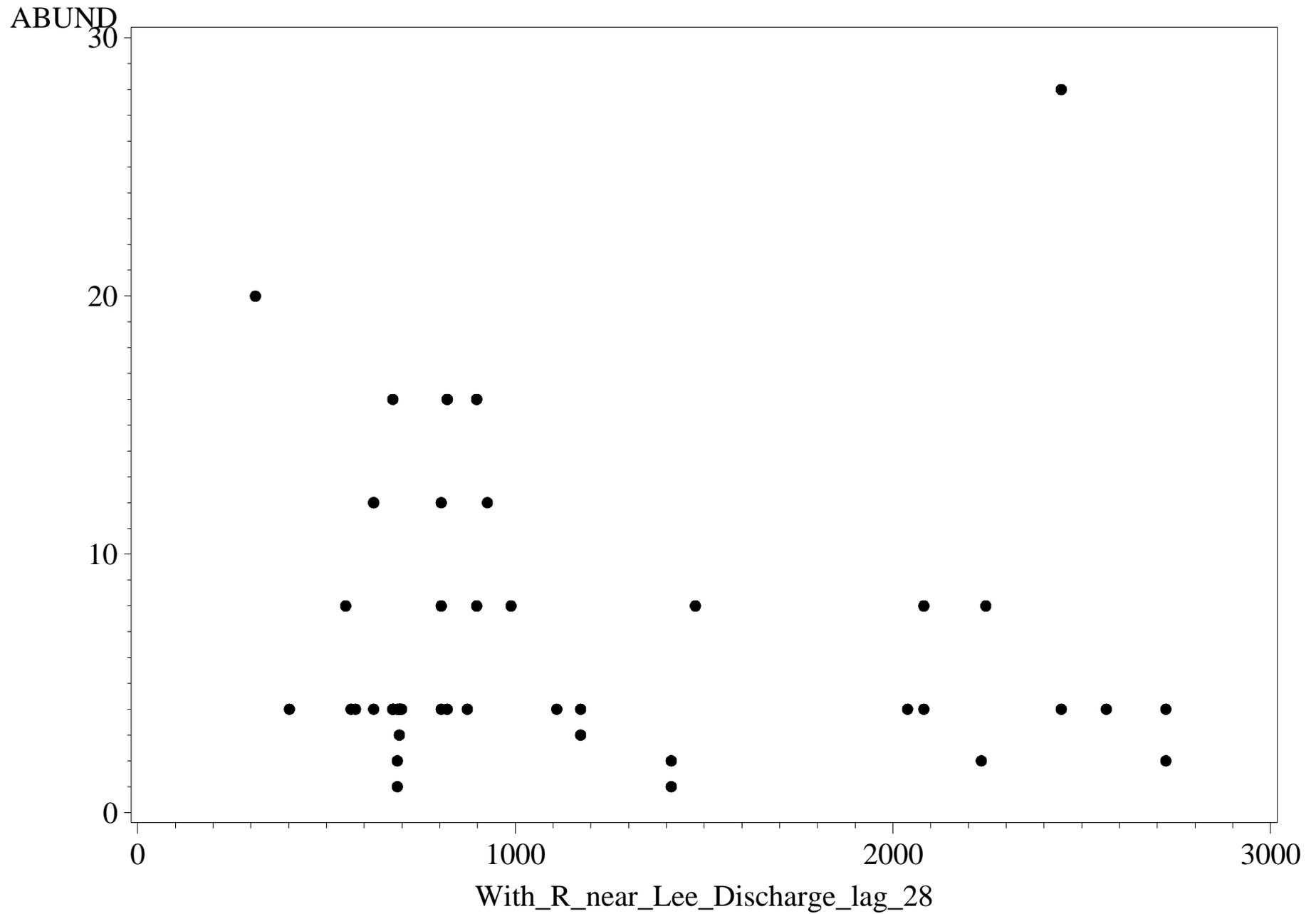
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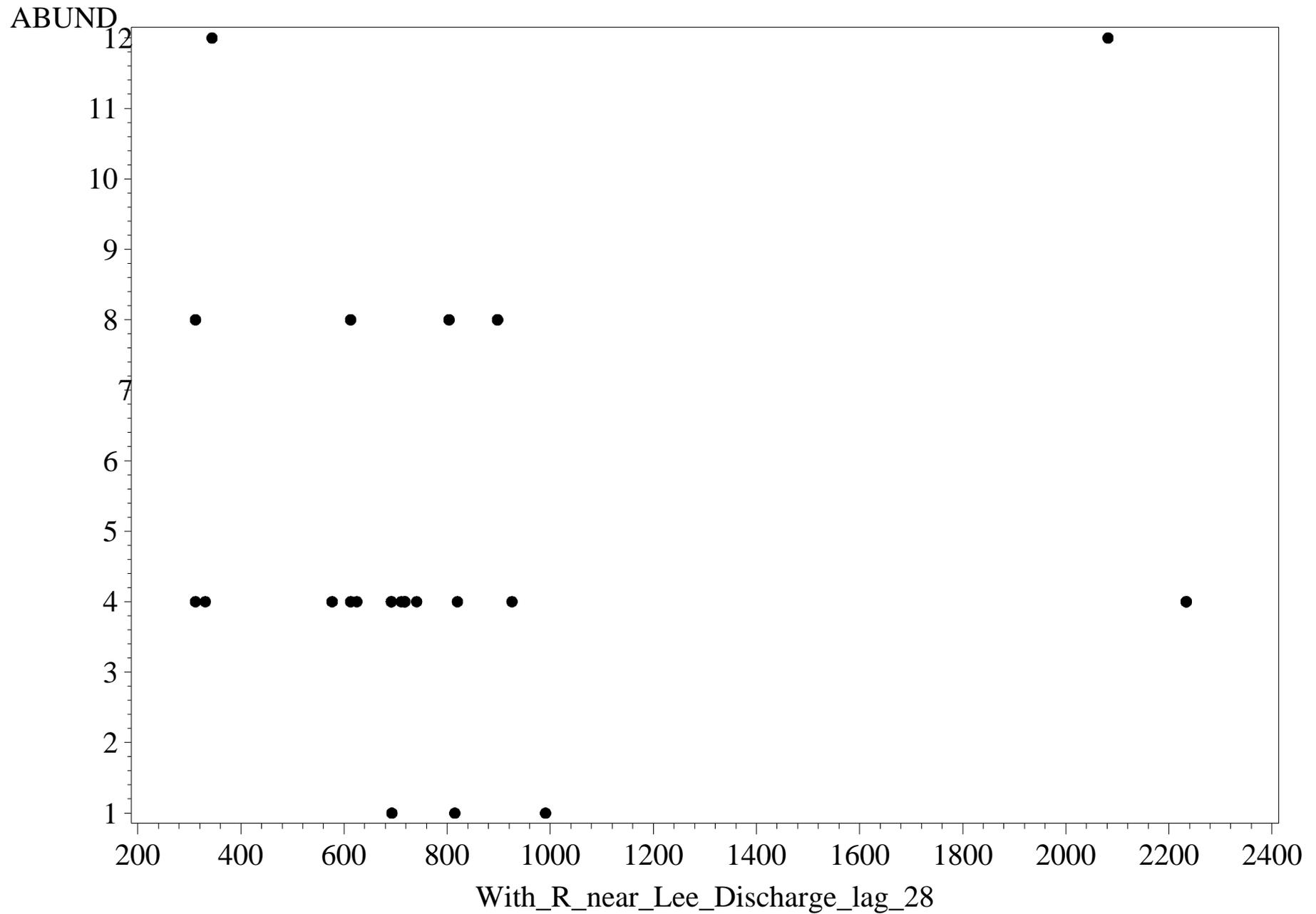
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name=PRISTINA LEIDYI



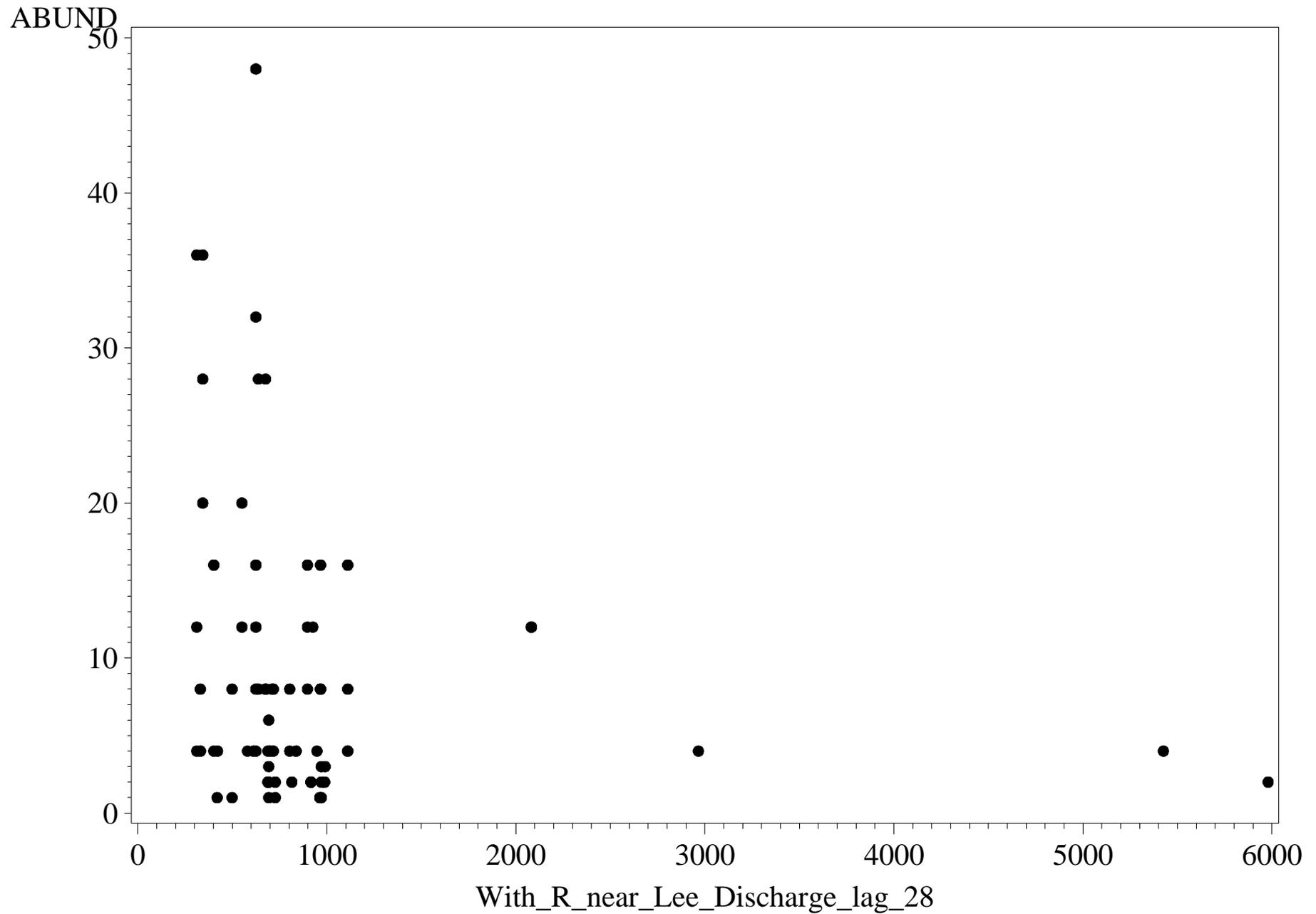
Individual Benthic Species vs. 28 Day Lag of Estimated Withlacoochee Flow (at Lee)
name=PROCLOEON VIRIDOCULAR



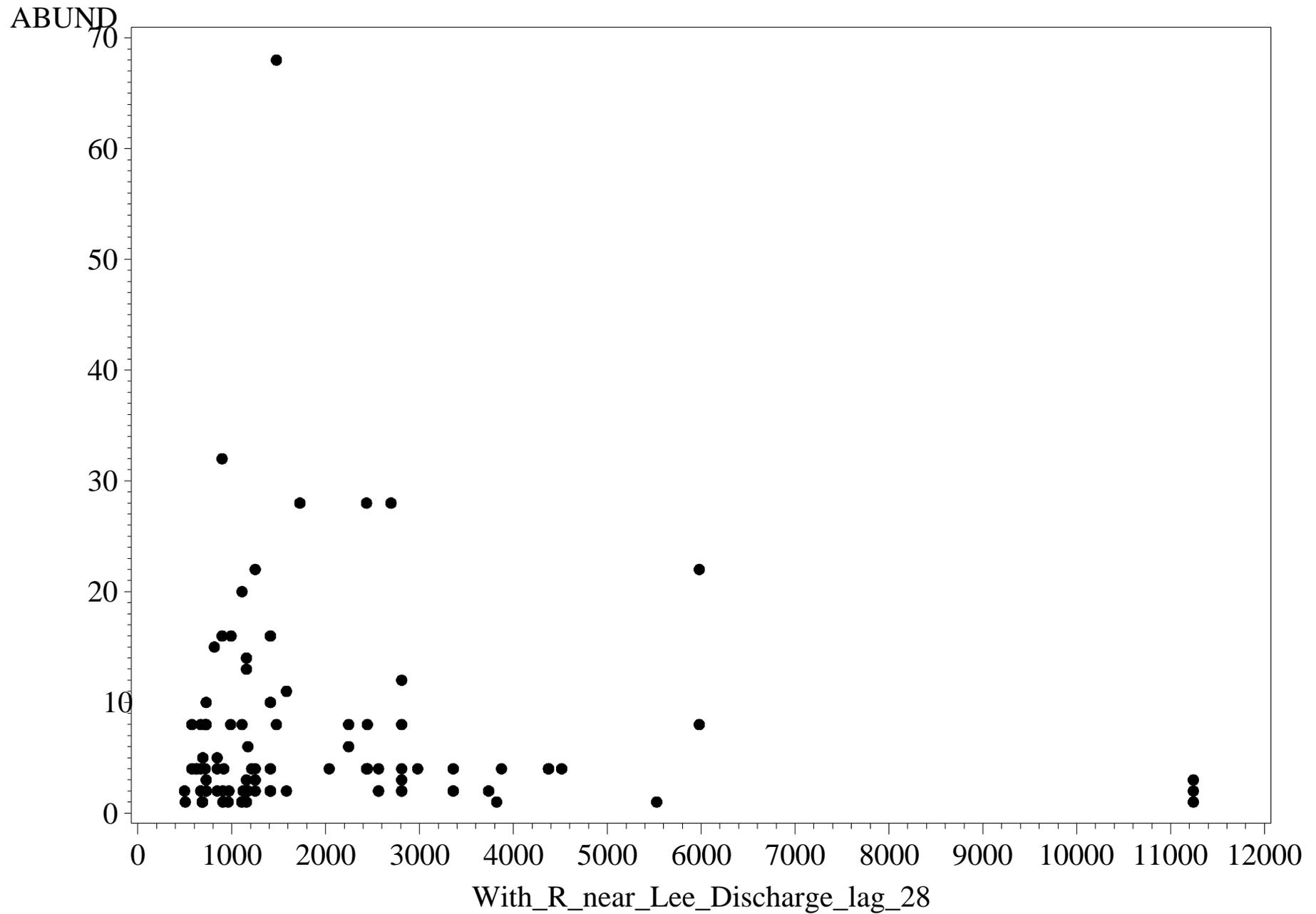
Individual Benthic Species vs. 28 Day Lag of Estimated Withlacoochee Flow (at Lee)
name=PROSTOMA SP.



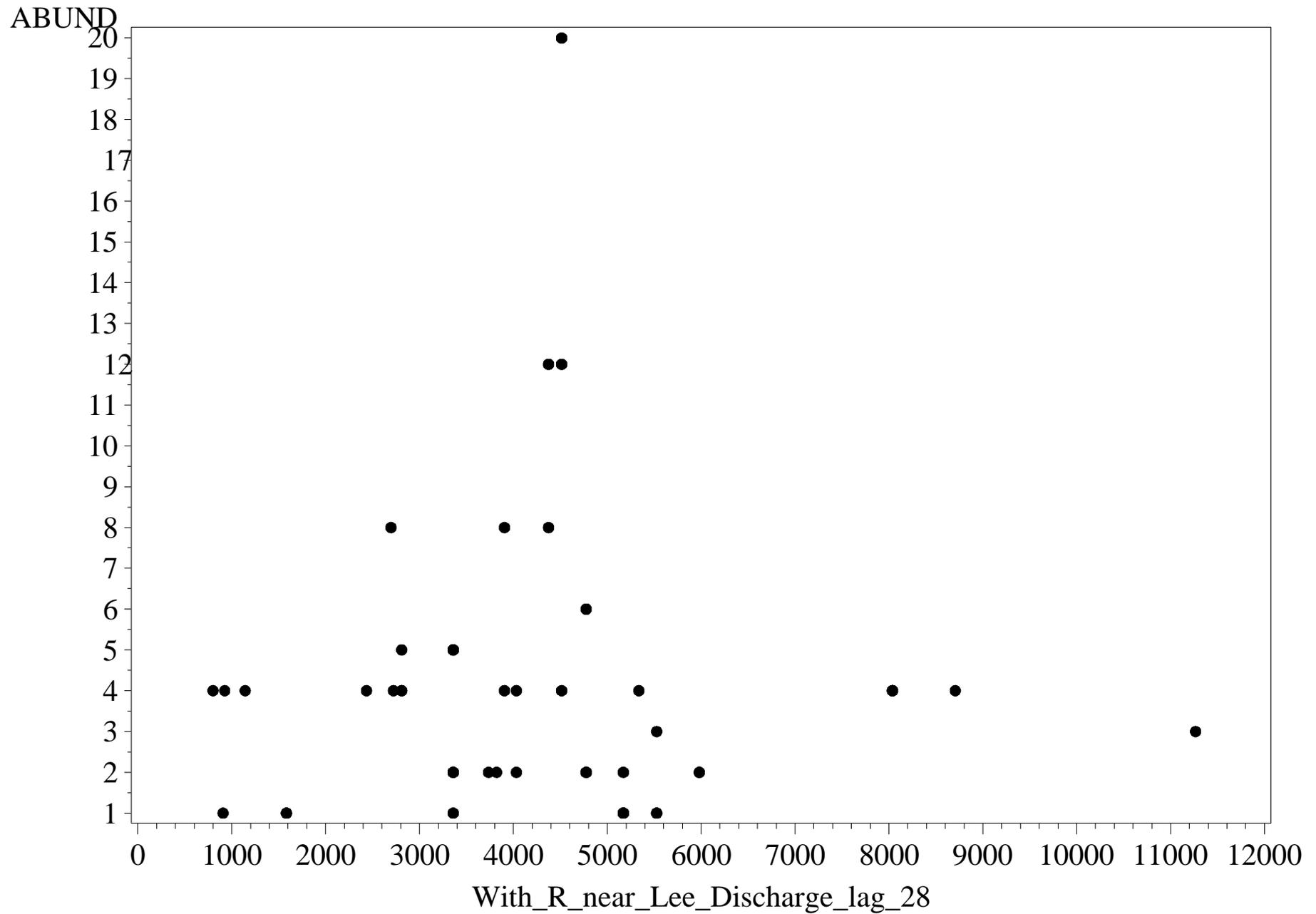
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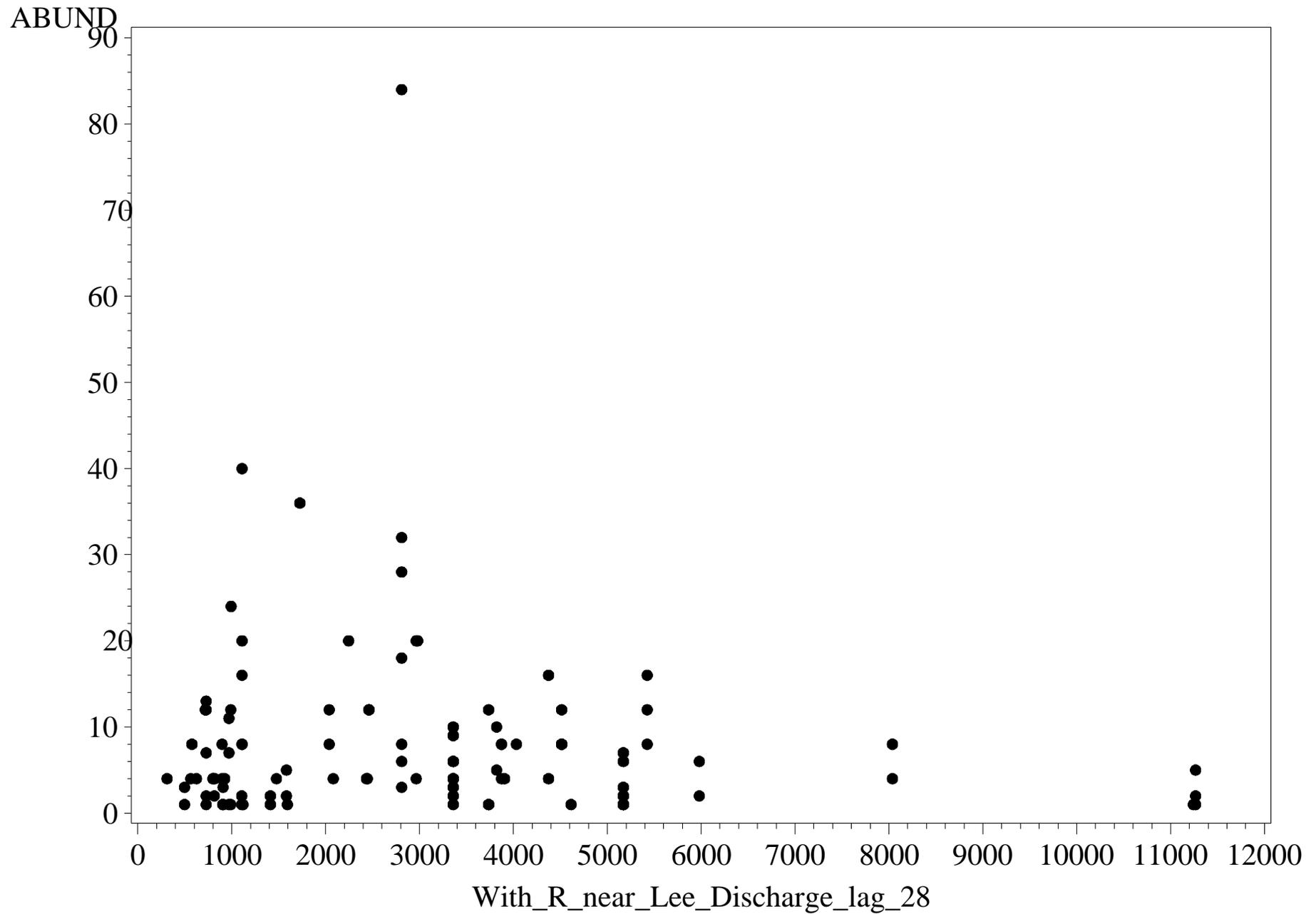
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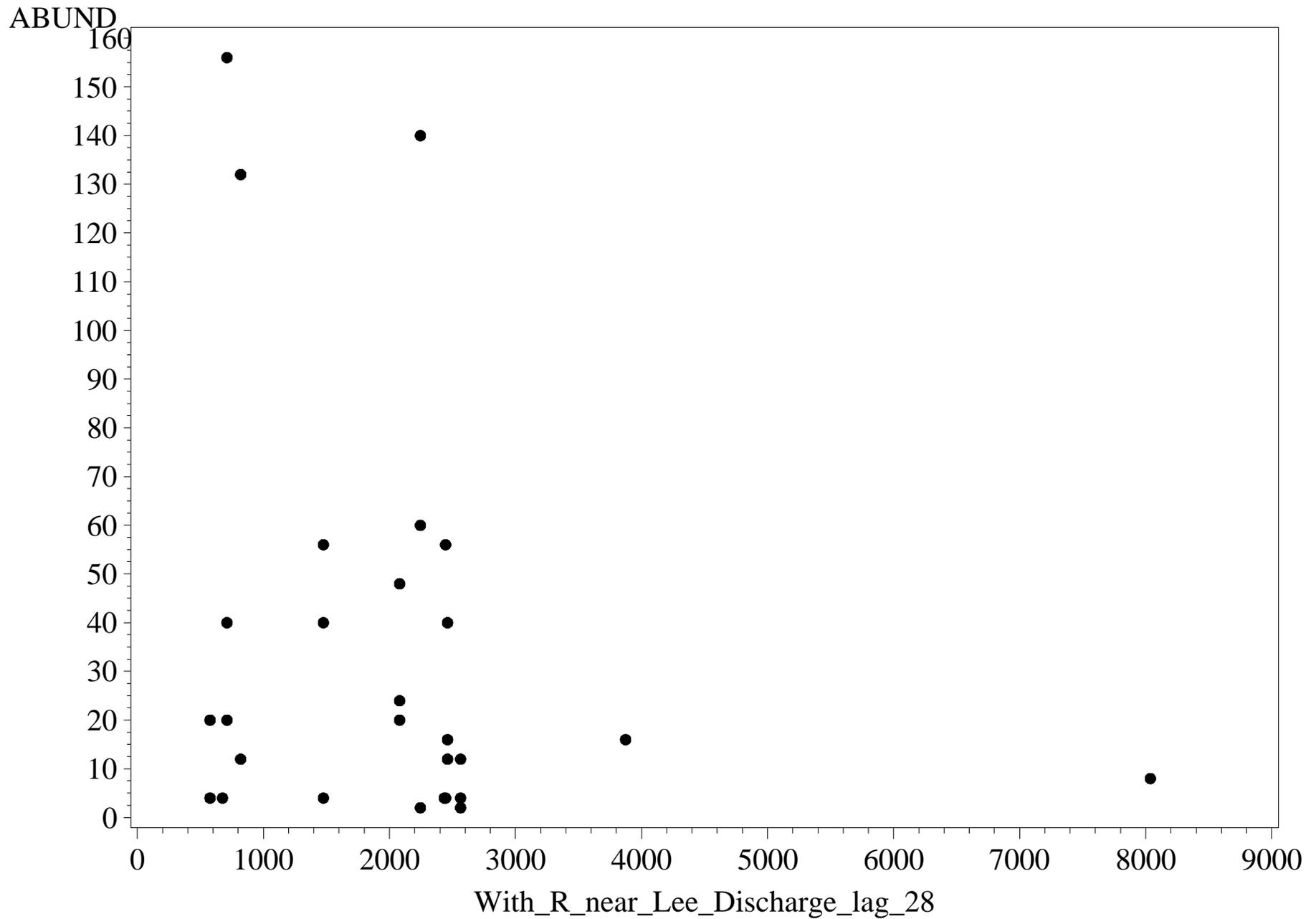
Individual Benthic Species vs. 28 Day Lag of Estimated Withlacoochee Flow (at Lee)
name=RHEOCRICOTOPUS ROBACKI



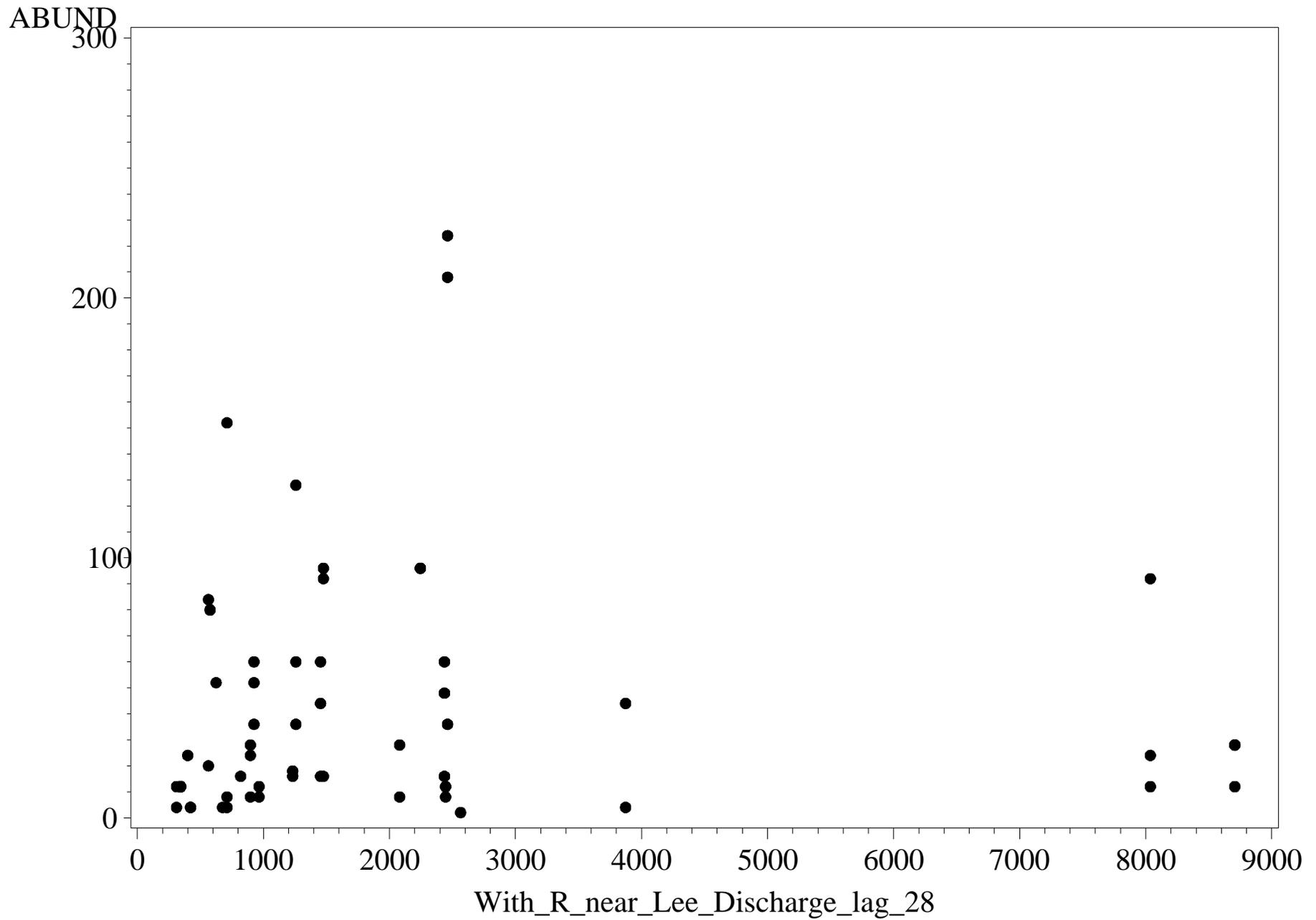
Individual Benthic Species vs. 28 Day Lag of Estimated Withlacoochee Flow (at Lee)
name=RHEOPELOPIA SP. A



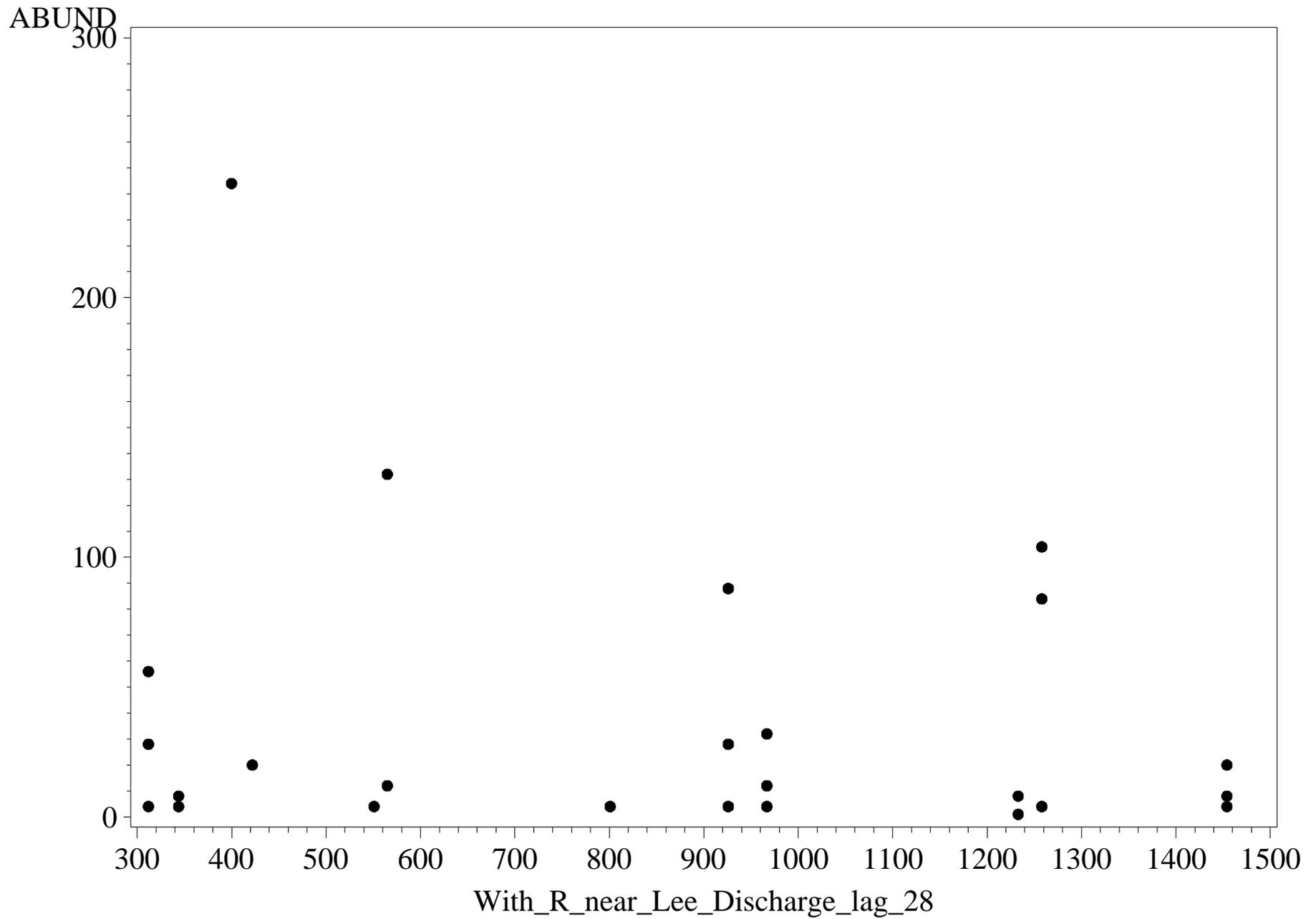
Individual Benthic Species vs. 28 Day Lag of Estimated Withlacoochee Flow (at Lee)
name=RHEOTANYTARSUS DISTINCTISSIMUS



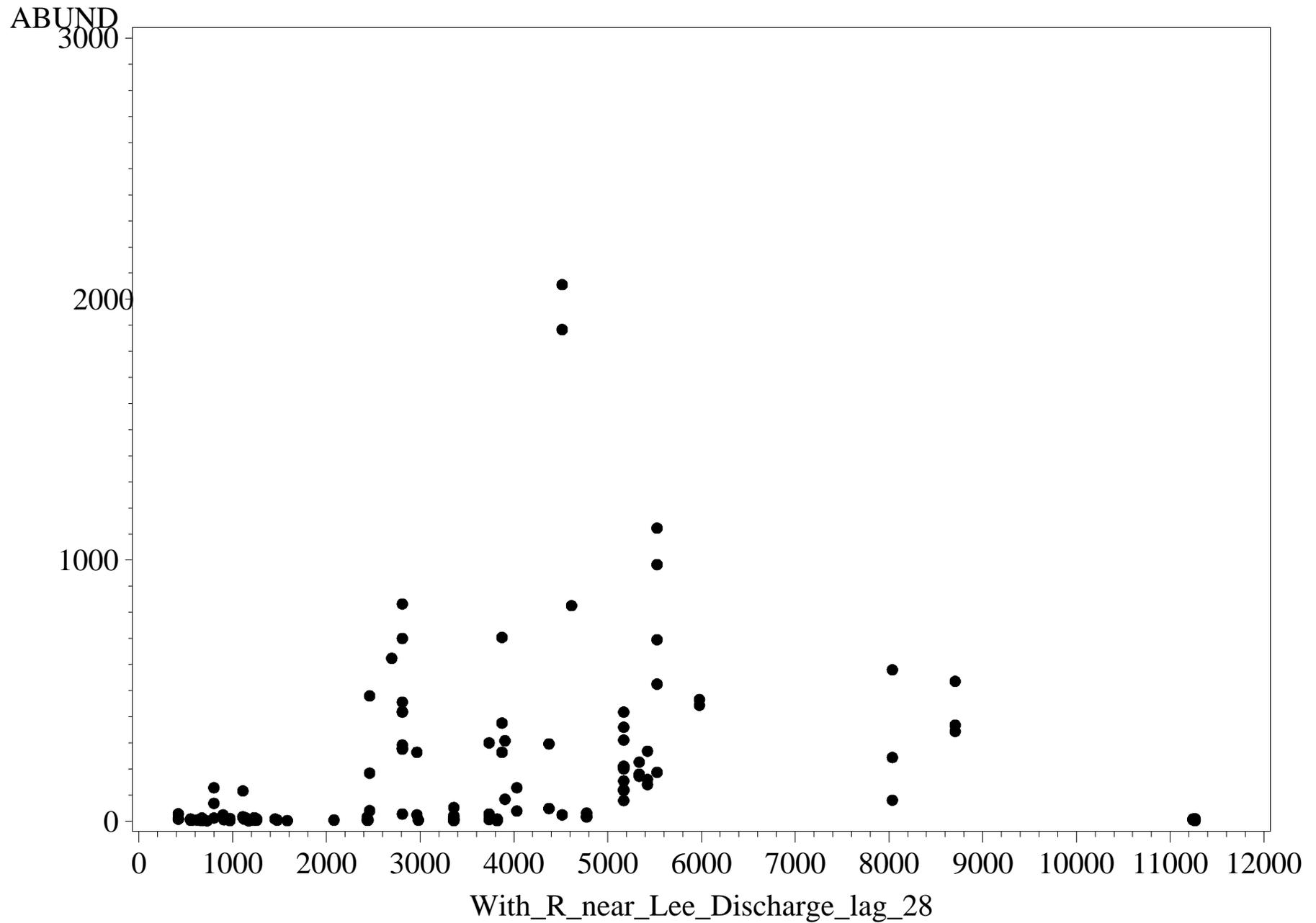
Individual Benthic Species vs. 28 Day Lag of Estimated Withlacoochee Flow (at Lee)
name=RHEOTANYTARSUS EXIGUUS GRO



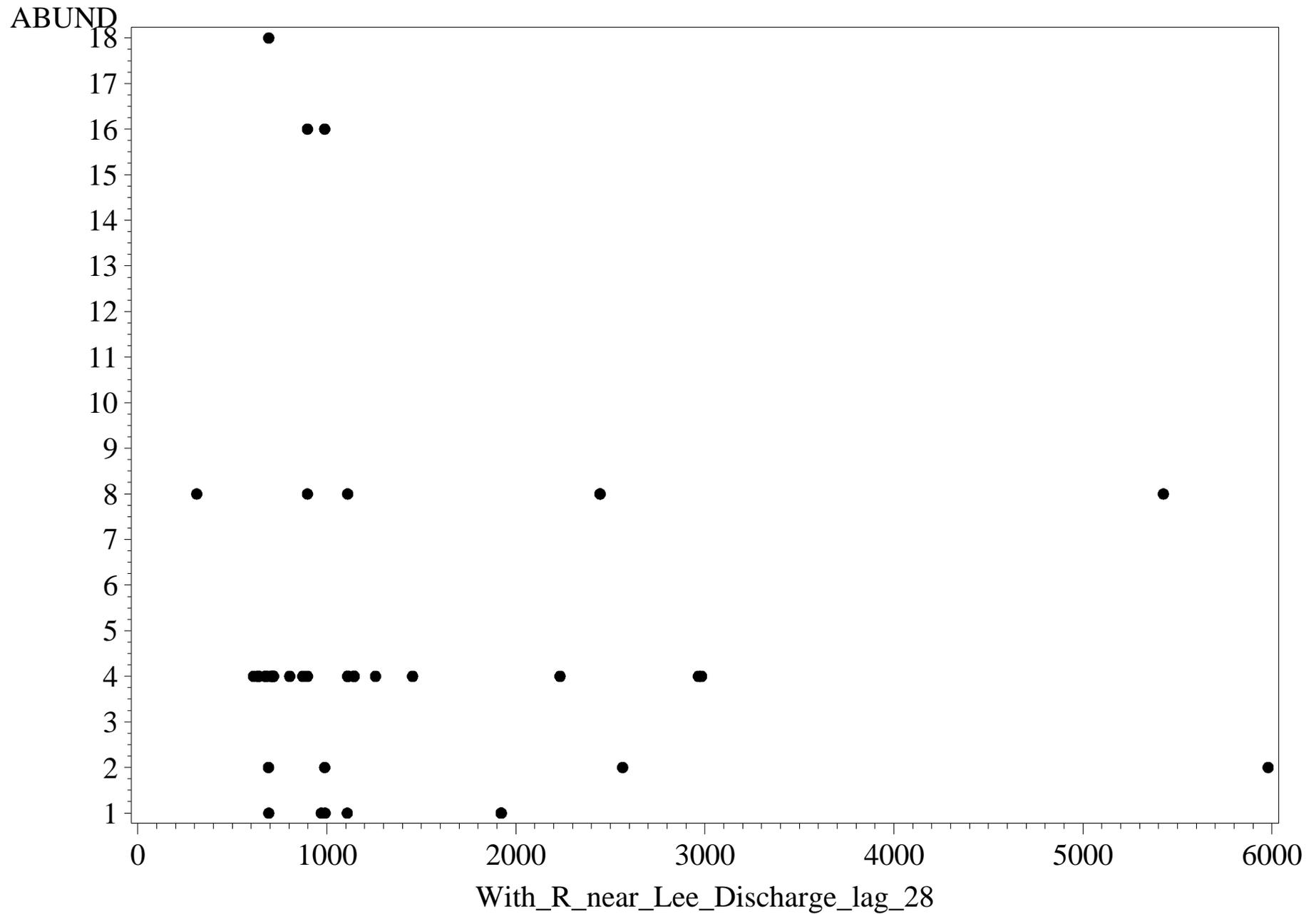
Individual Benthic Species vs. 28 Day Lag of Estimated Withlacoochee Flow (at Lee)
name=RHEOTANYTARSUS PELLUCIDUS



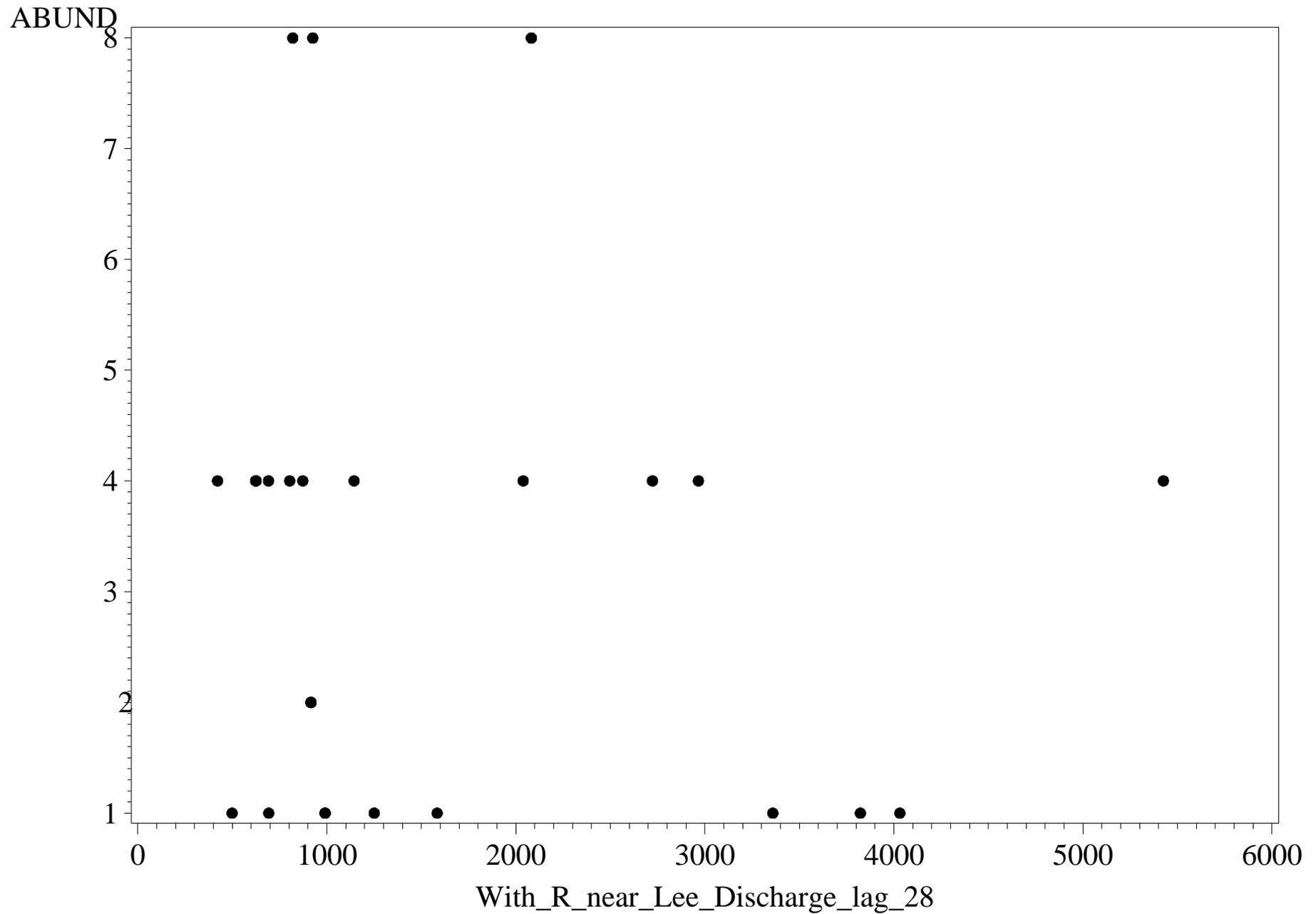
Individual Benthic Species vs. 28 Day Lag of Estimated Withlacoochee Flow (at Lee)
name=SIMULIUM SP.



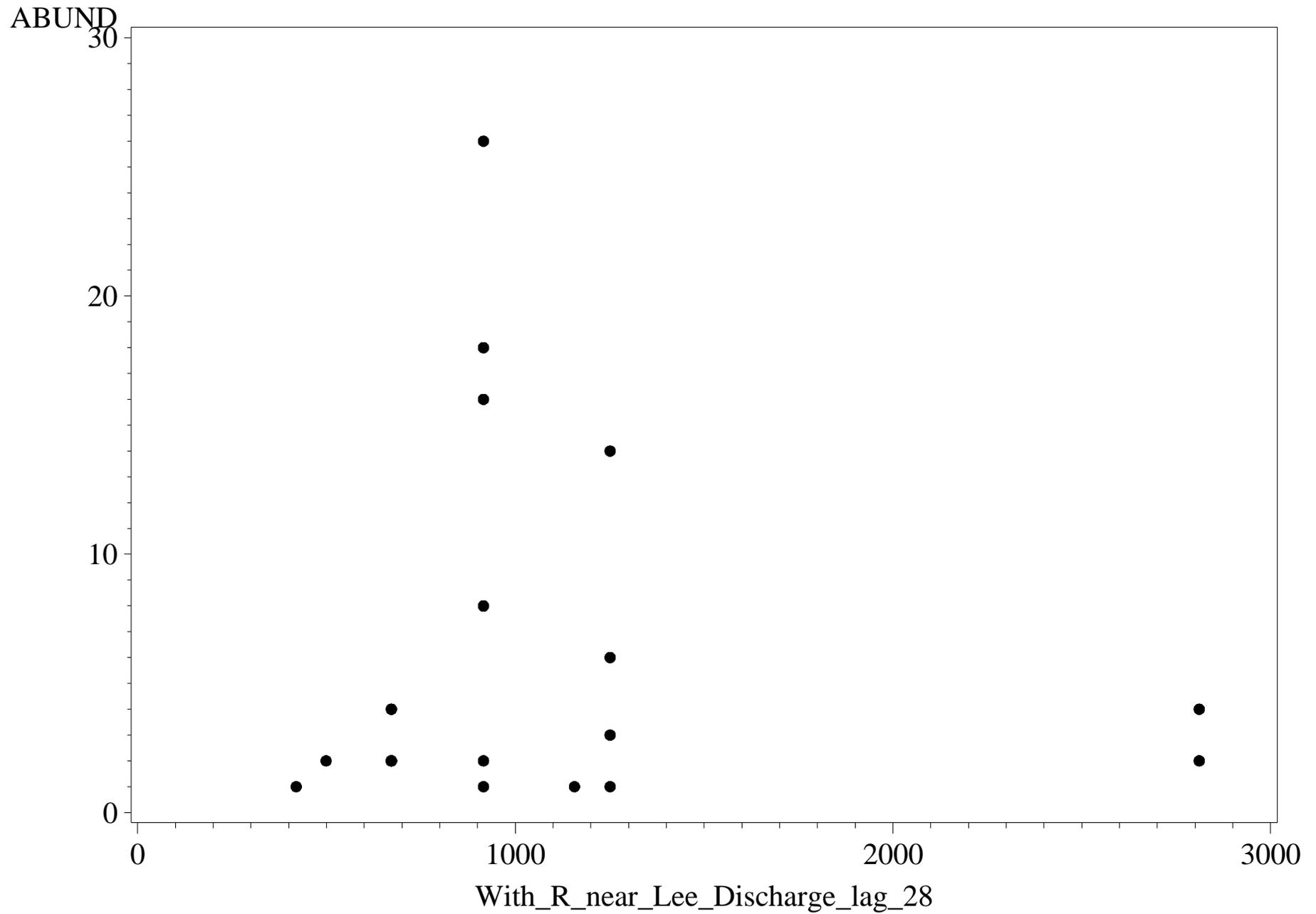
Individual Benthic Species vs. 28 Day Lag of Estimated Withlacoochee Flow (at Lee)
name=SLAVINA APPENDICULA



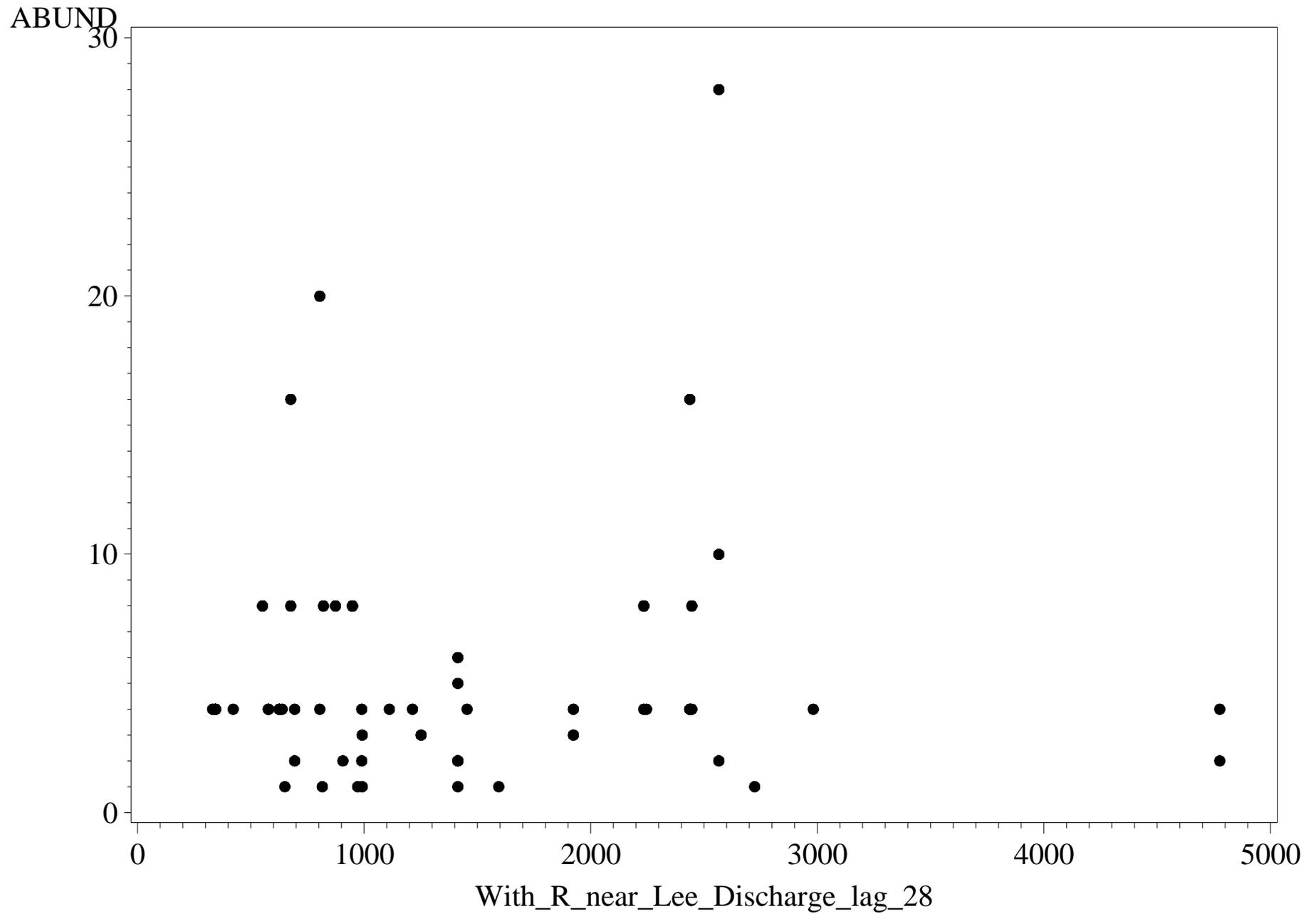
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name=STELECHOMYIA PERPULCHRA



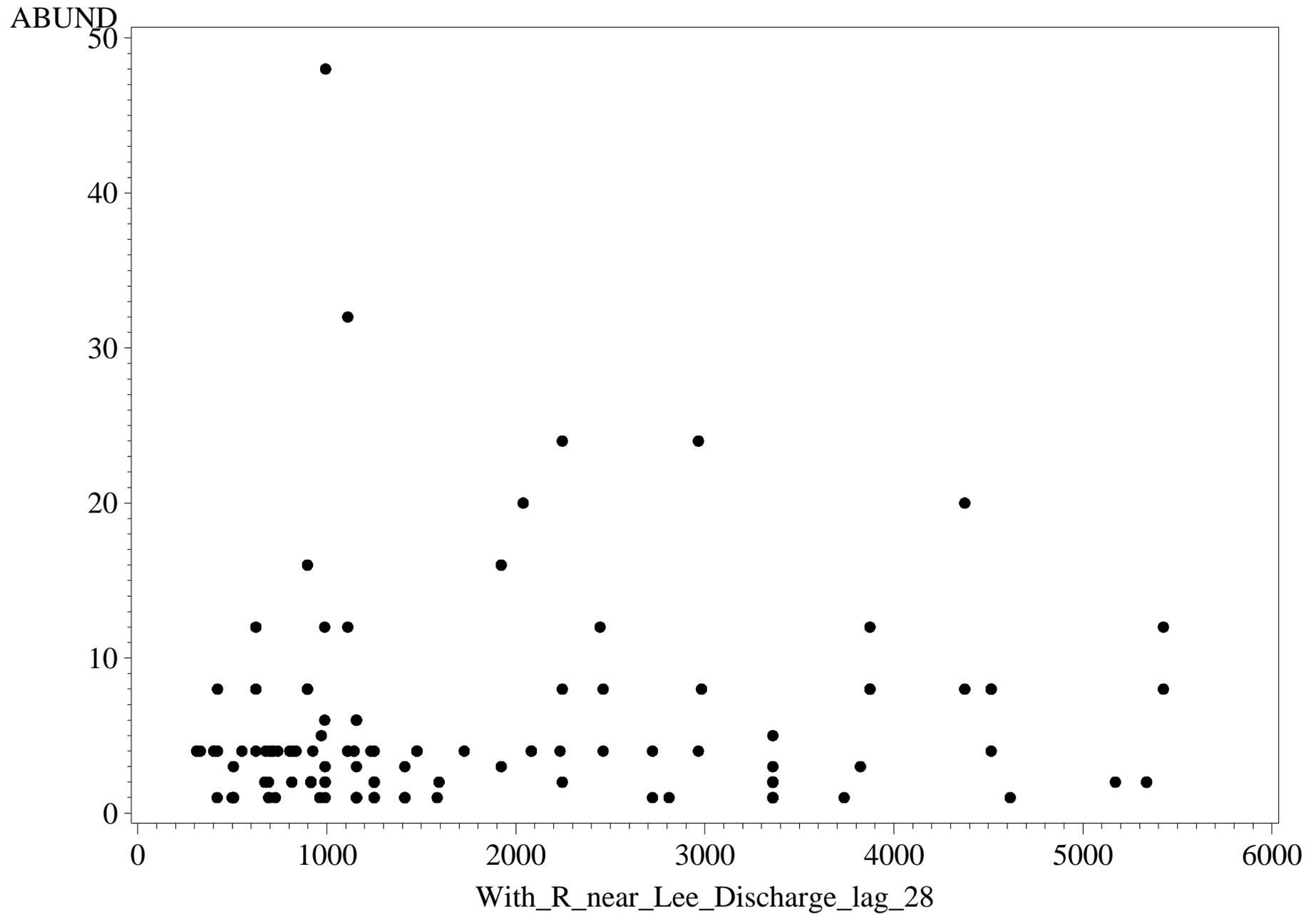
Individual Benthic Species vs. 28 Day Lag of Estimated Withlacoochee Flow (at Lee)
name=STENACRON INTERPUNCTATUM



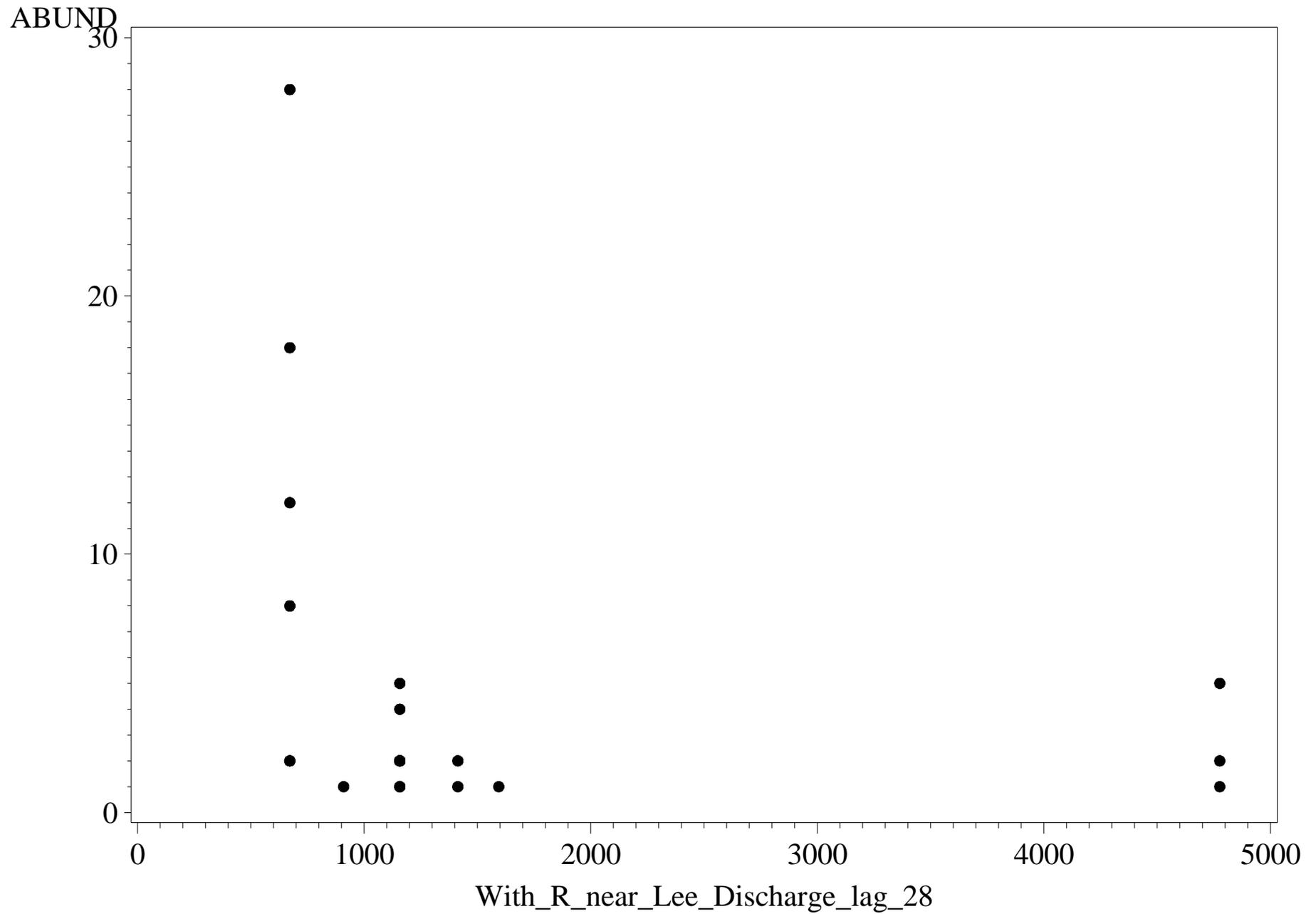
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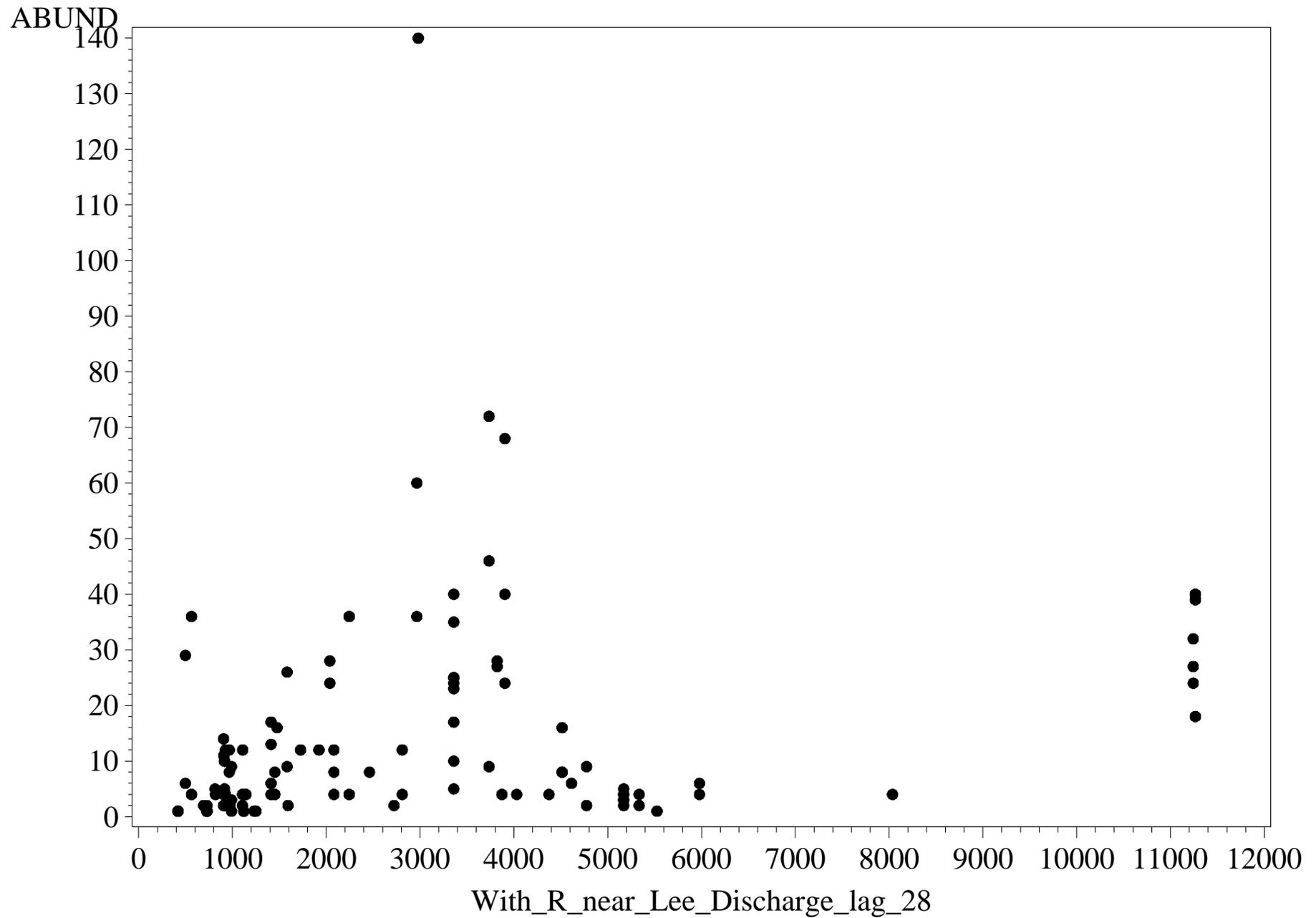
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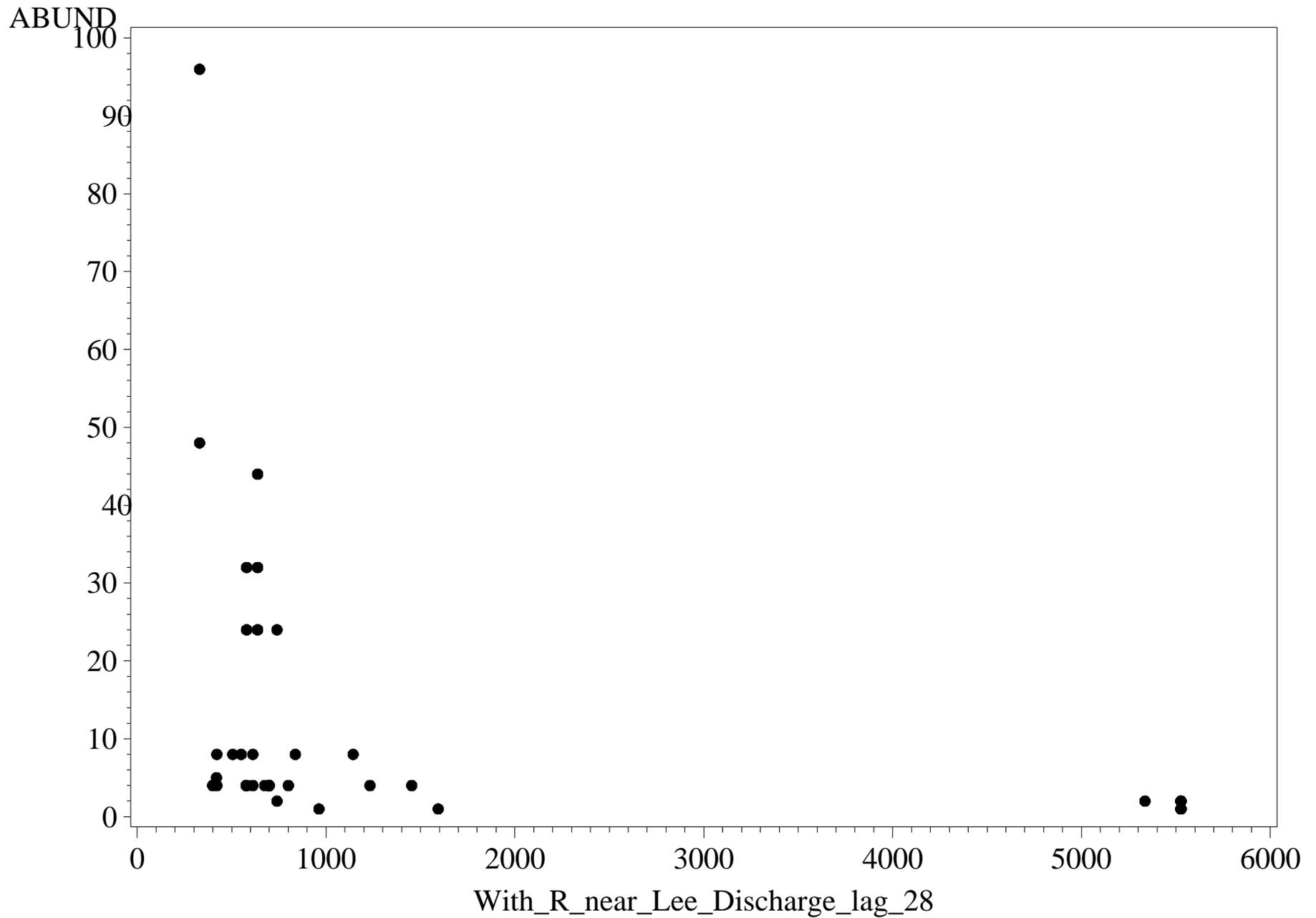
Individual Benthic Species vs. 28 Day Lag of Estimated Withlacoochee Flow (at Lee)
name=STENONEMA SMITHAE



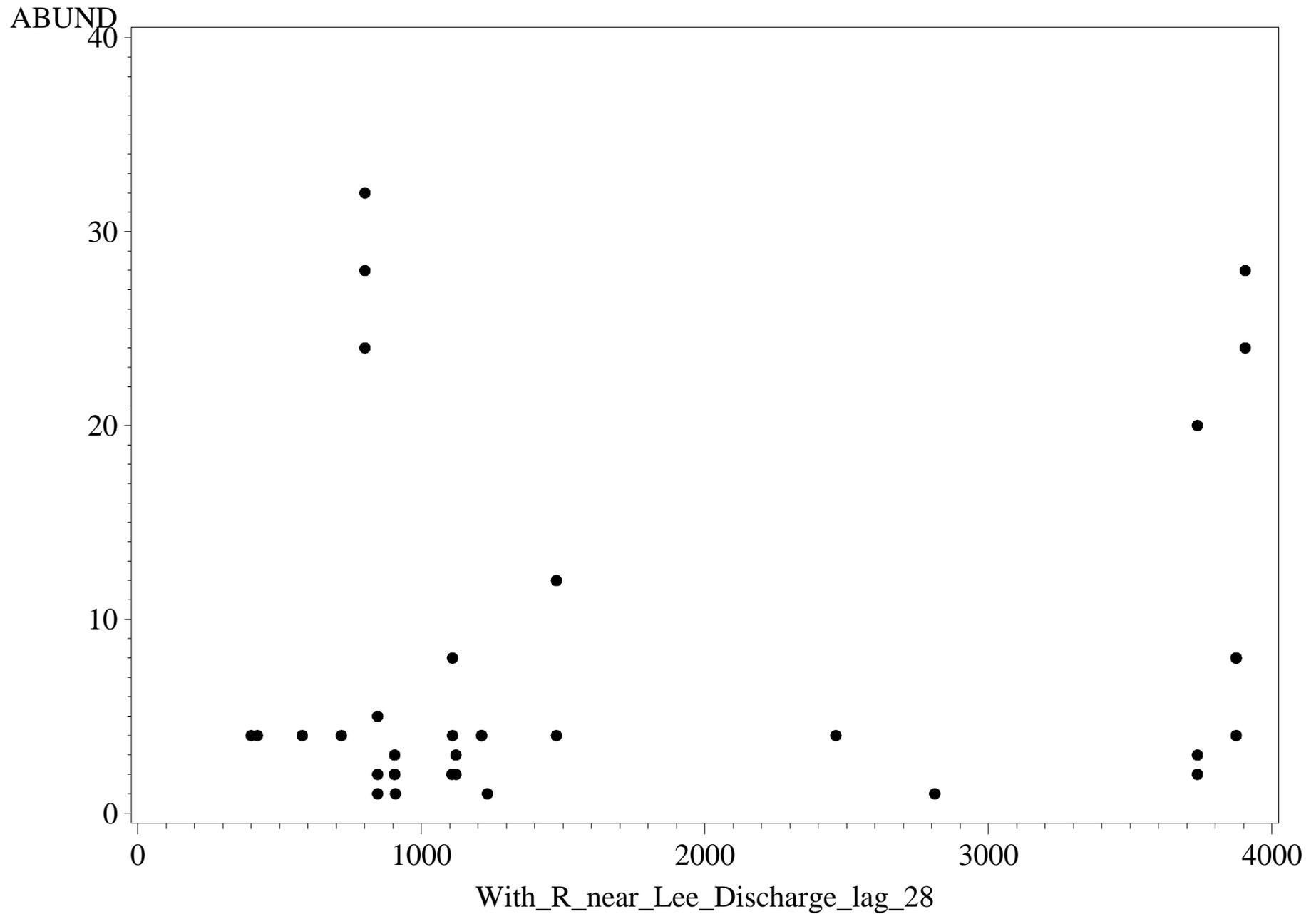
Individual Benthic Species vs. 28 Day Lag of Estimated Withlacoochee Flow (at Lee)
name=STENONEMA SP.



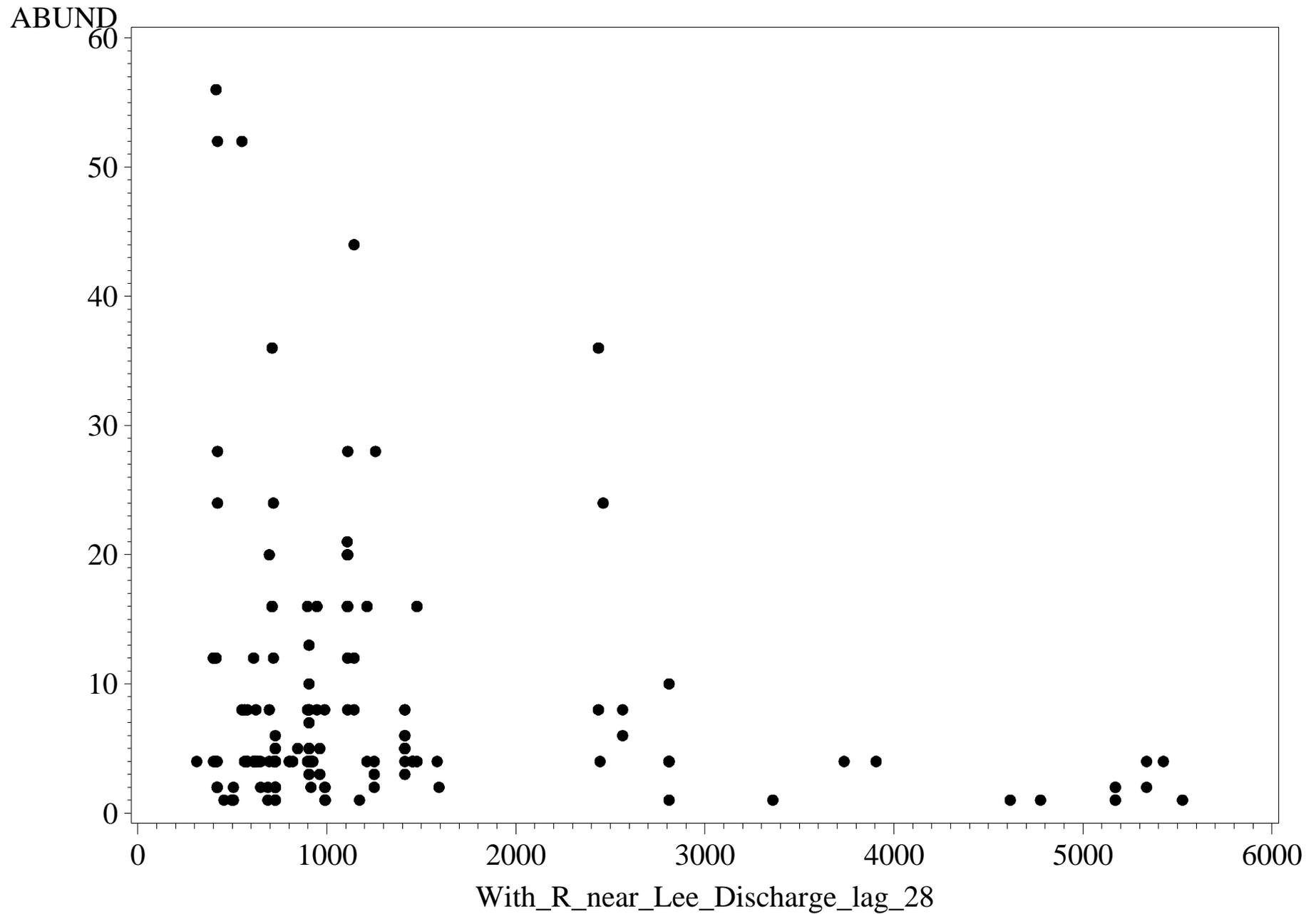
Individual Benthic Species vs. 28 Day Lag of Estimated Withlacoochee Flow (at Lee)
name=STYLARIA LACUSTRIS



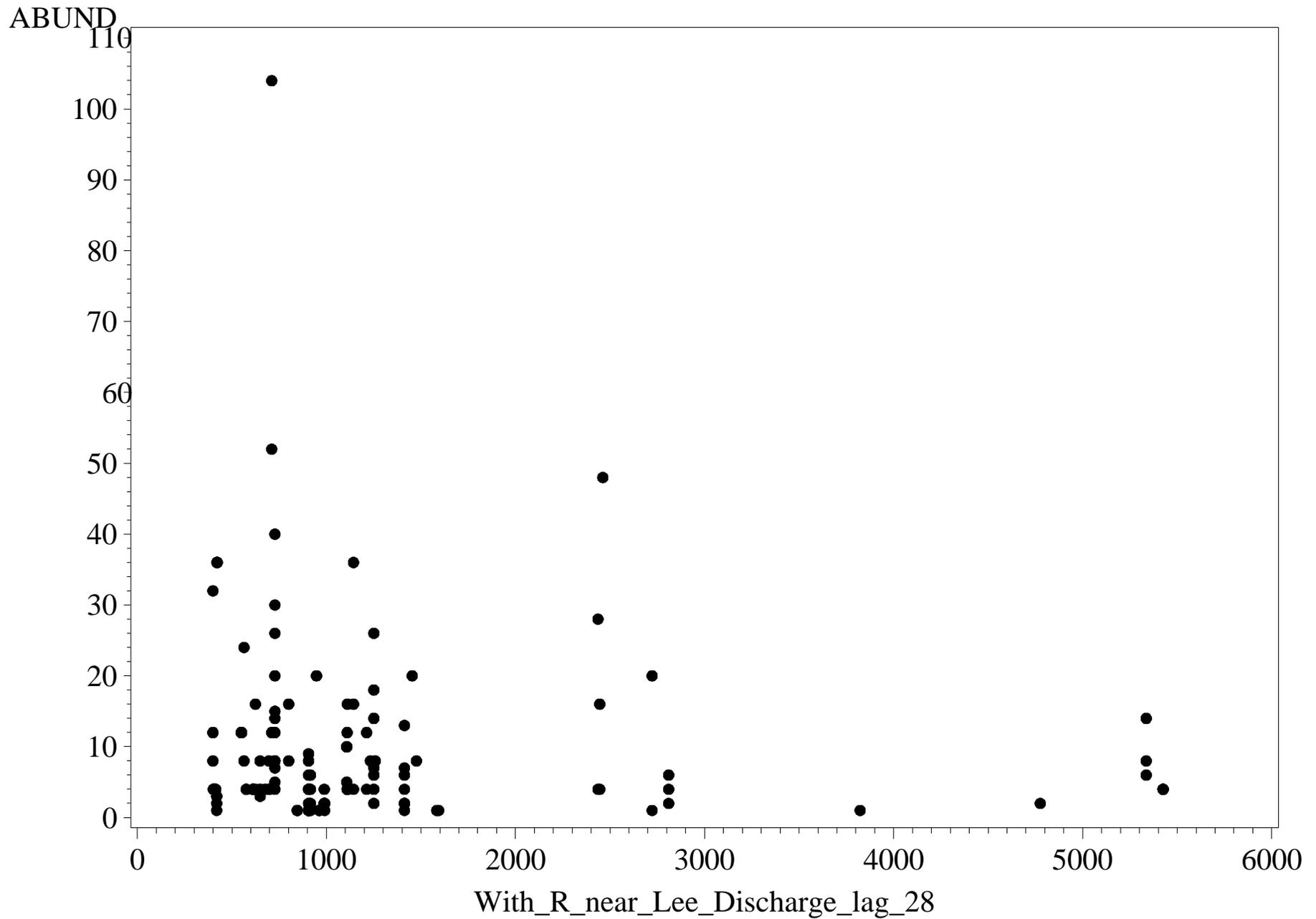
Individual Benthic Species vs. 28 Day Lag of Estimated Withlacoochee Flow (at Lee)
name=TAENIOPTERYX SP.



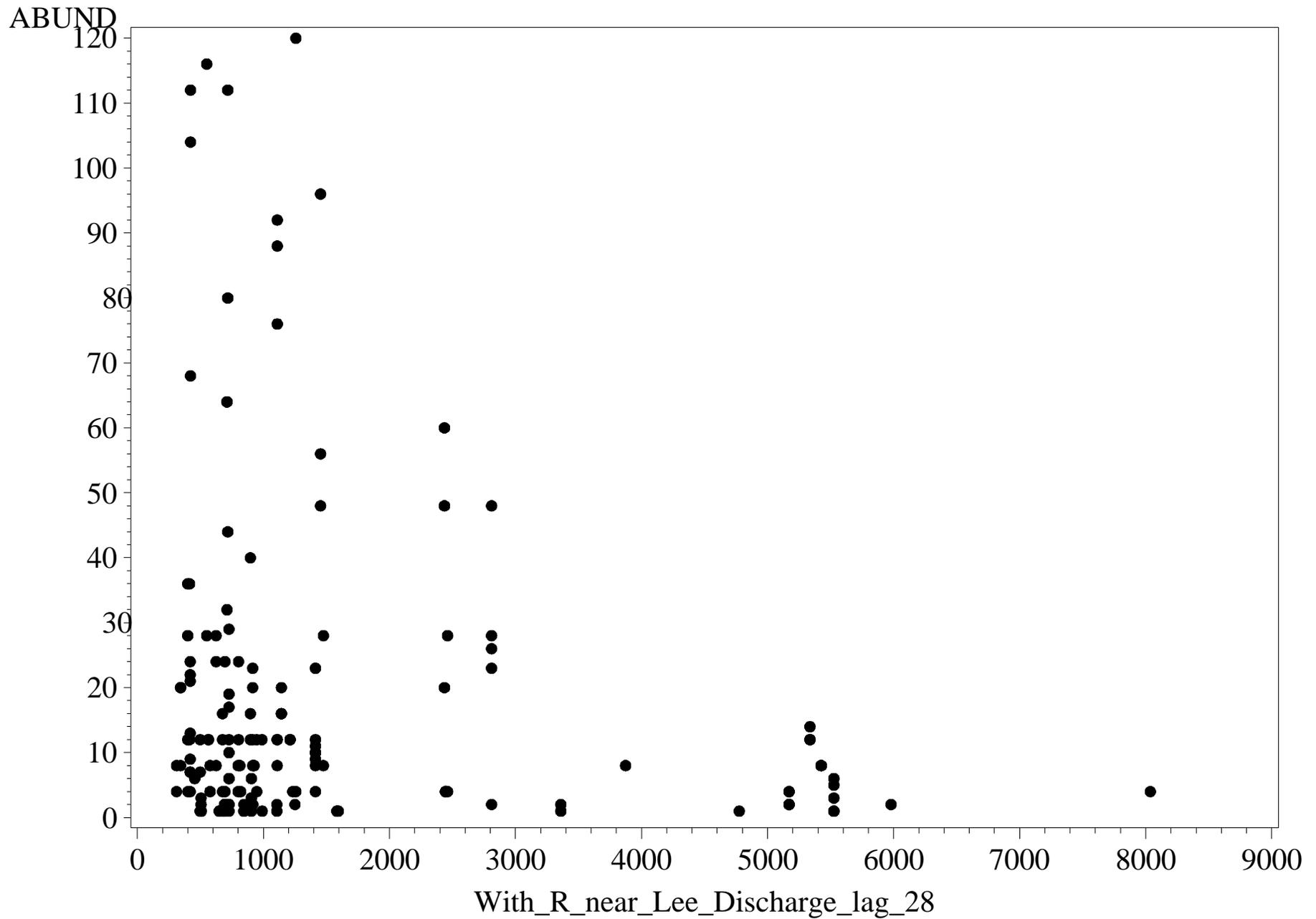
Individual Benthic Species vs. 28 Day Lag of Estimated Withlacoochee Flow (at Lee)
name=TANYTARSUS SP.



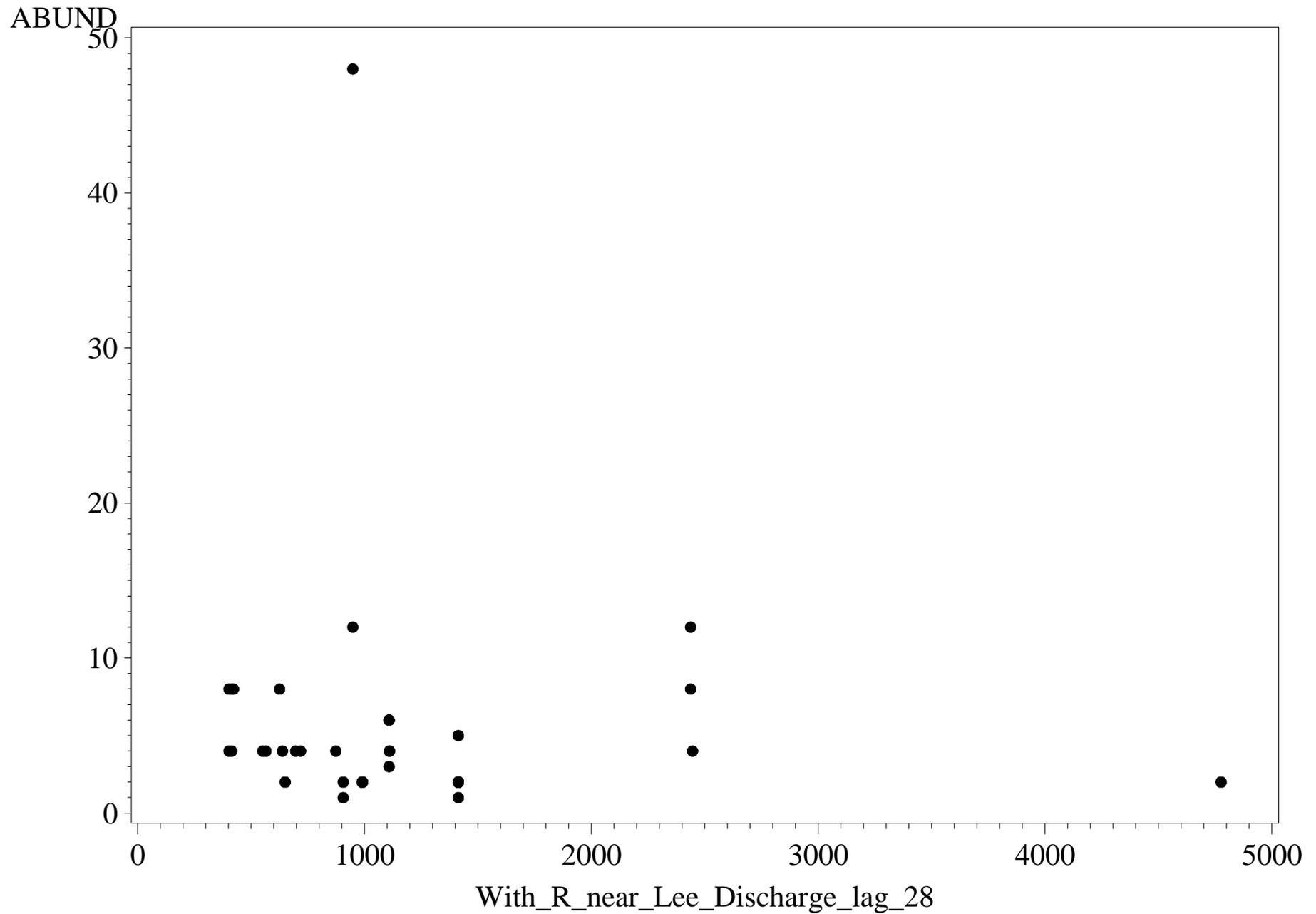
Individual Benthic Species vs. 28 Day Lag of Estimated Withlacoochee Flow (at Lee)
name=TANYTARSUS SP. A



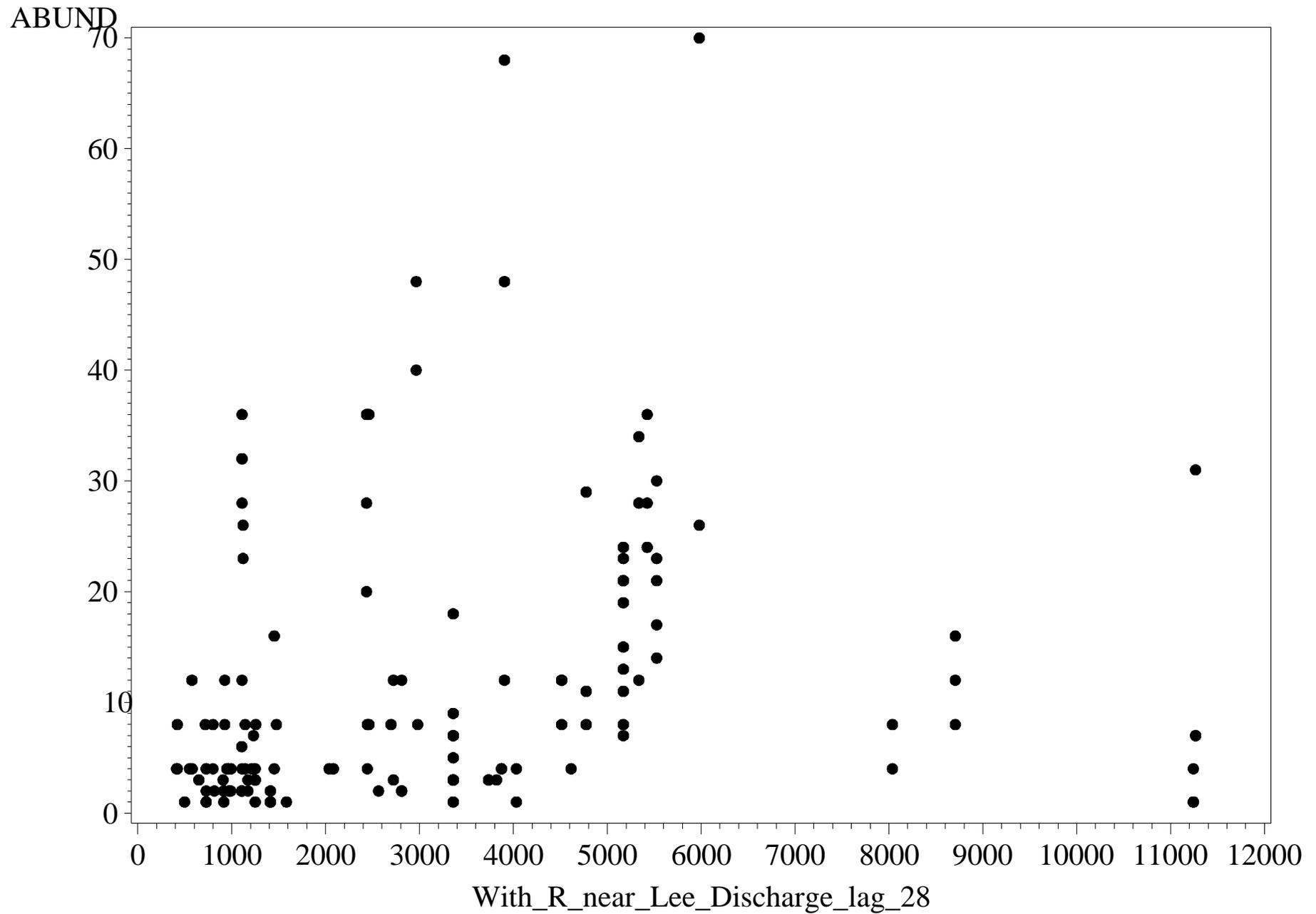
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name=TANYTARSUS SP. C



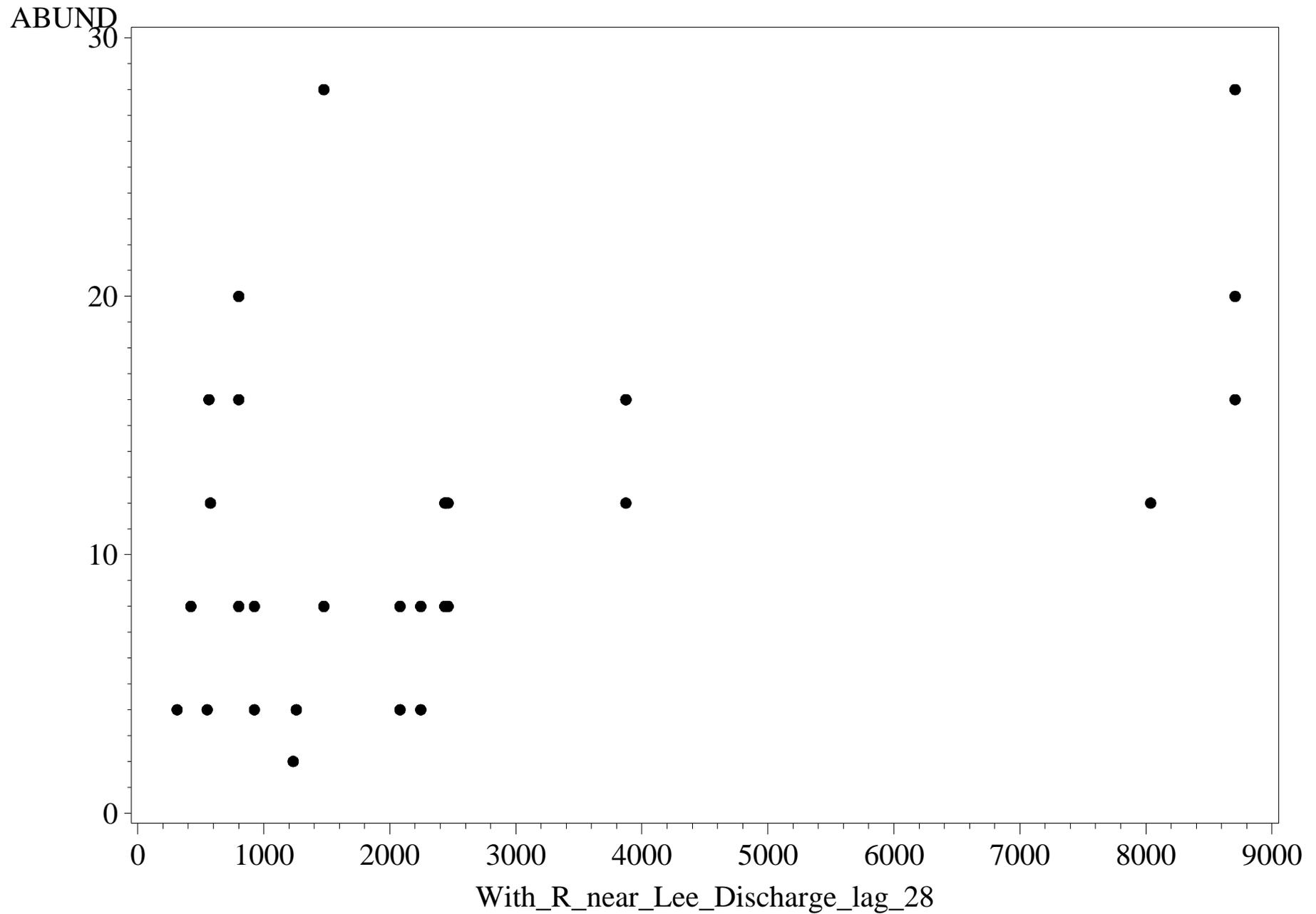
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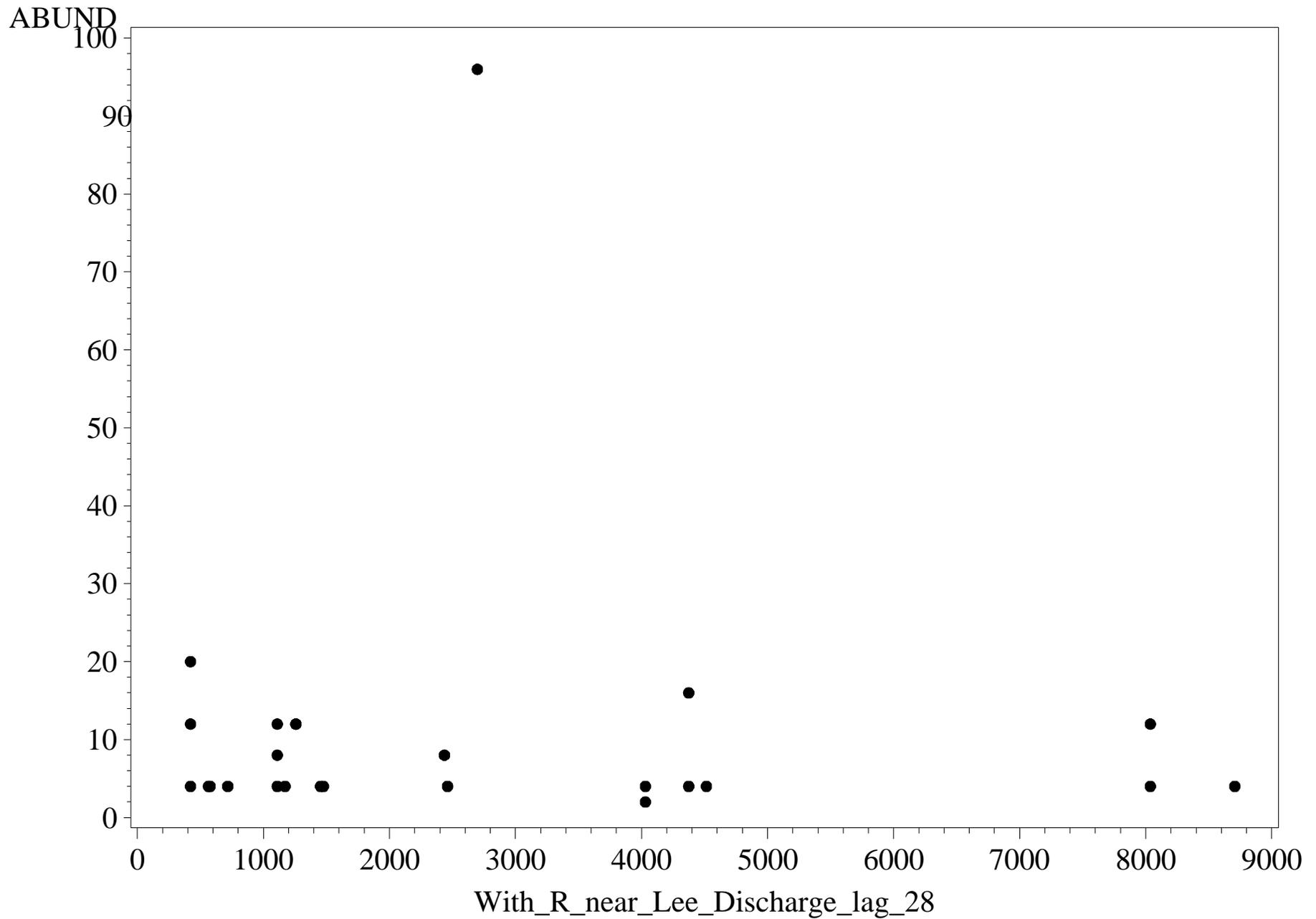
Individual Benthic Species vs. 28 Day Lag of Estimated Withlacoochee Flow (at Lee)
name=THIENEMANNIELLA SP.



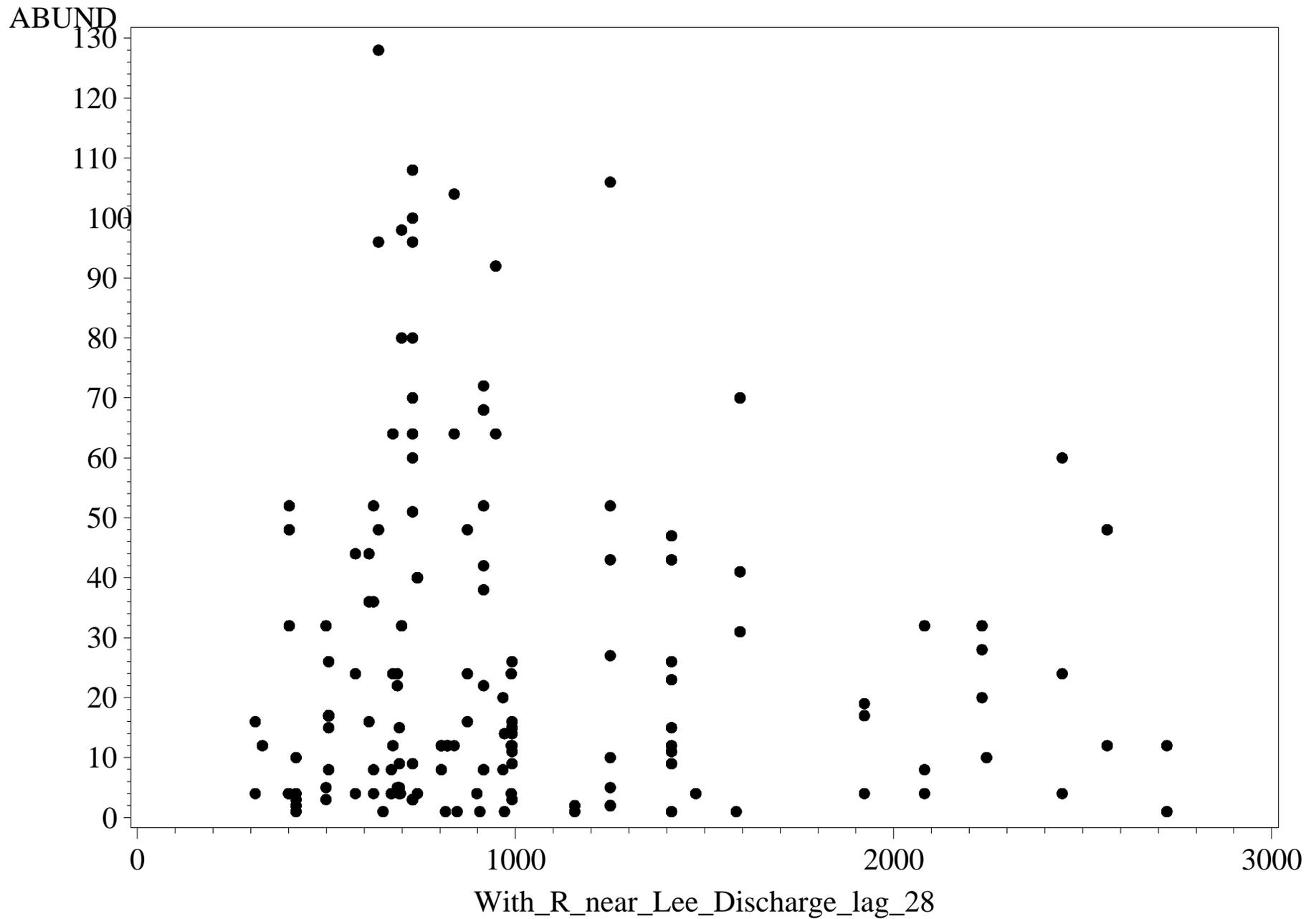
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name=THIENEMANNIELLA SP. B



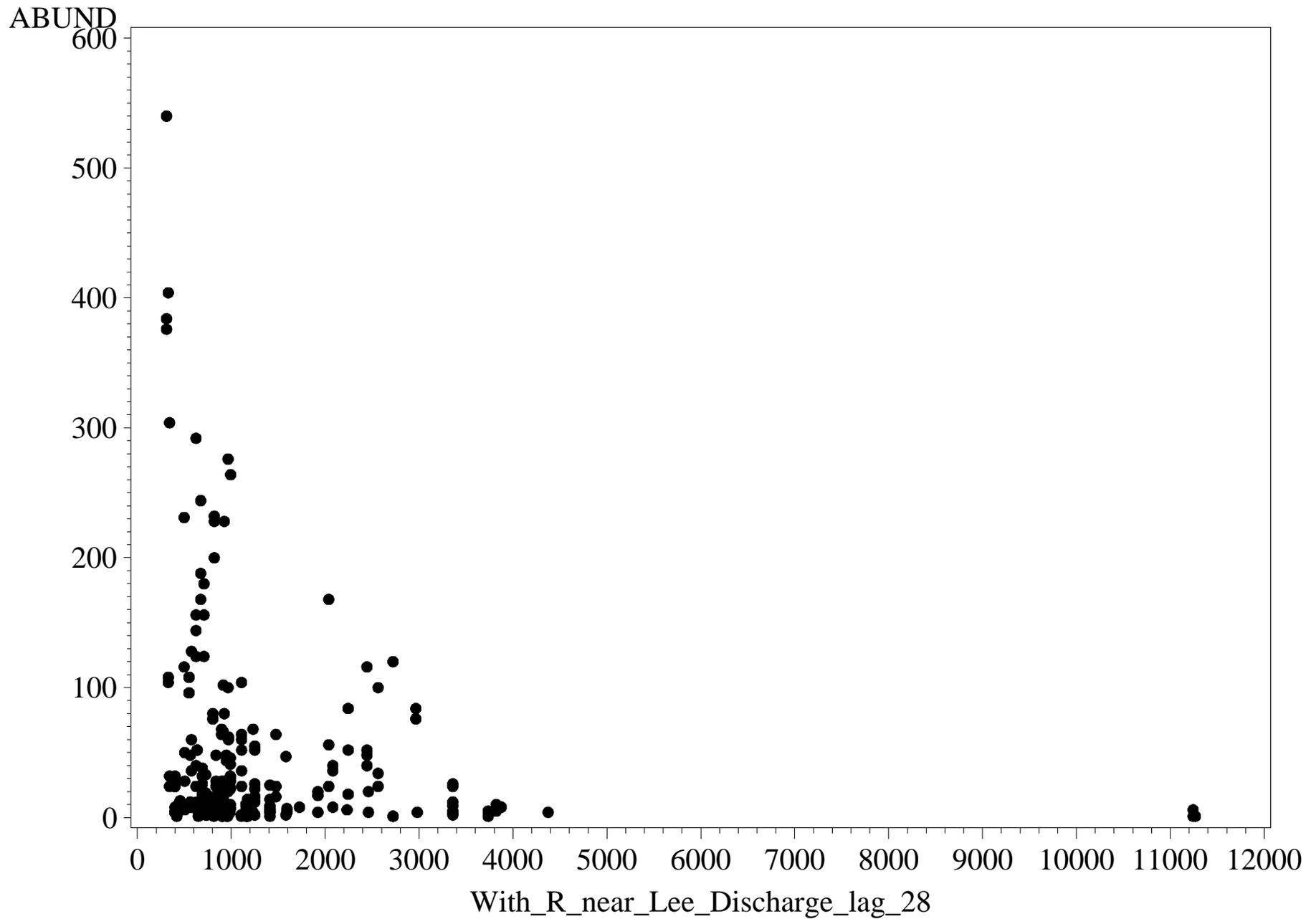
Individual Benthic Species vs. 28 Day Lag of Estimated Withlacoochee Flow (at Lee)
name=THIENEMANNIELLA XENA



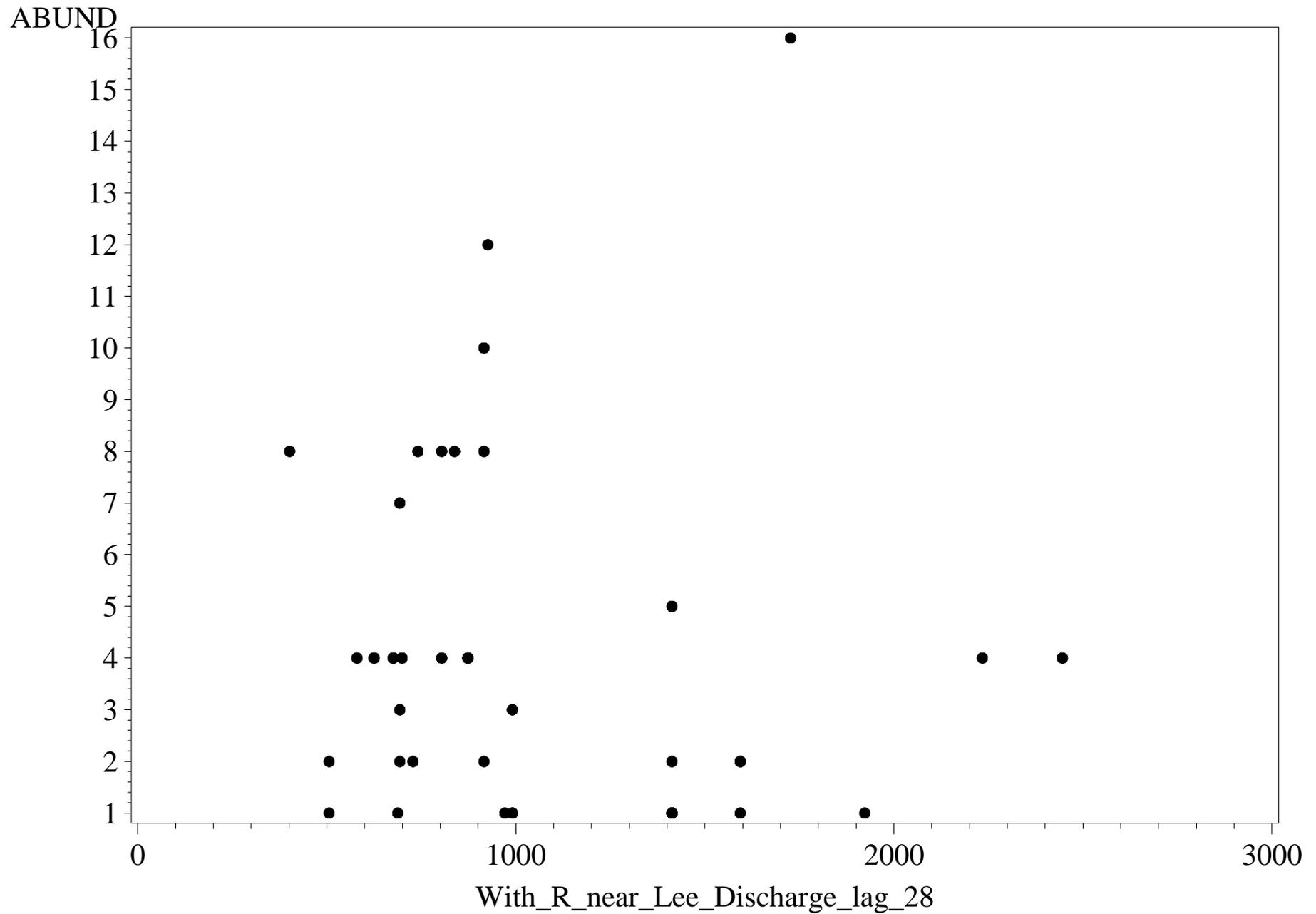
Individual Benthic Species vs. 28 Day Lag of Estimated Withlacoochee Flow (at Lee)
name=TRIBELOS FUSCICORNE



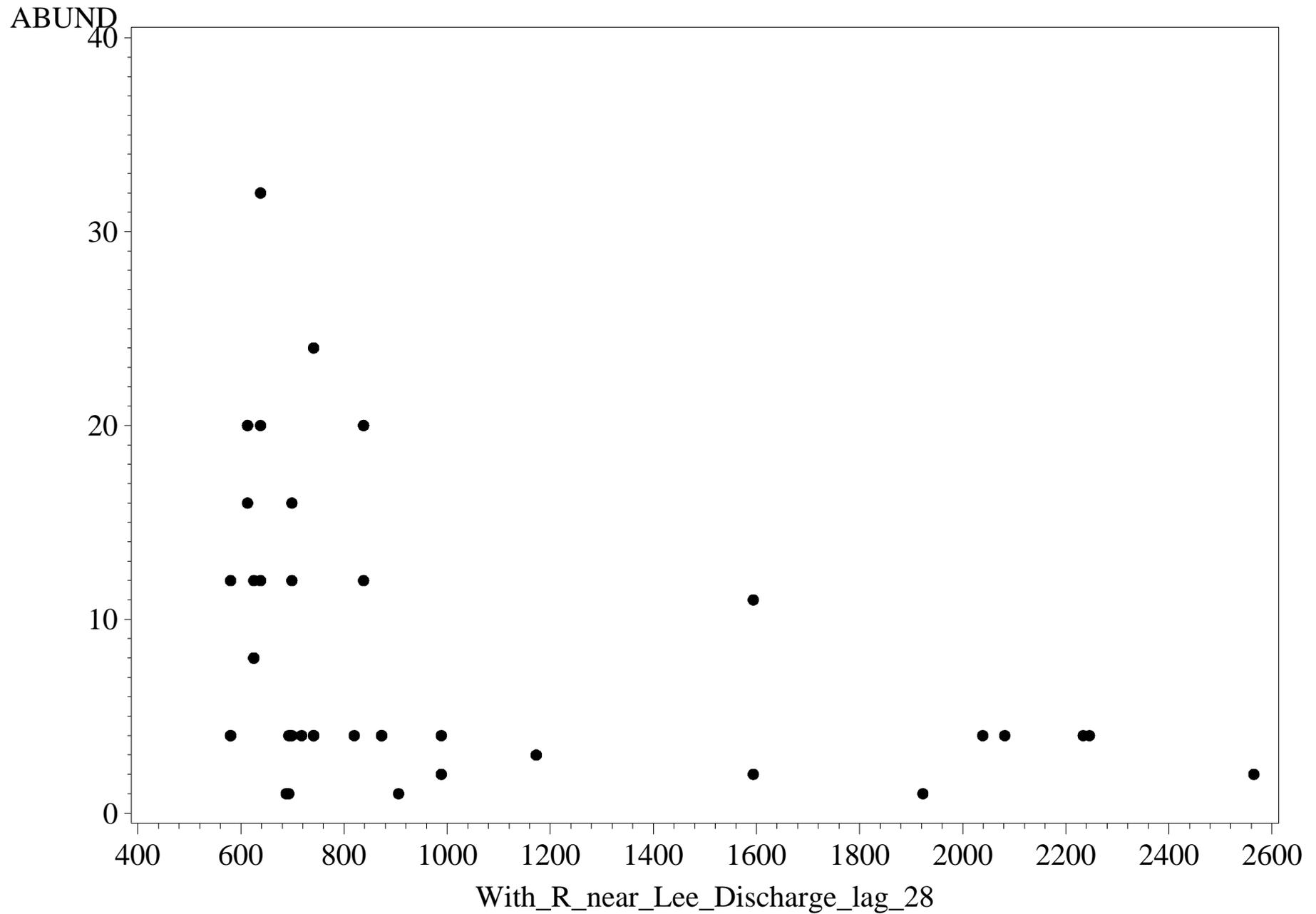
Individual Benthic Species vs. 28 Day Lag of Estimated Withlacoochee Flow (at Lee)
name=TRICORYTHODES ALBILINEATU



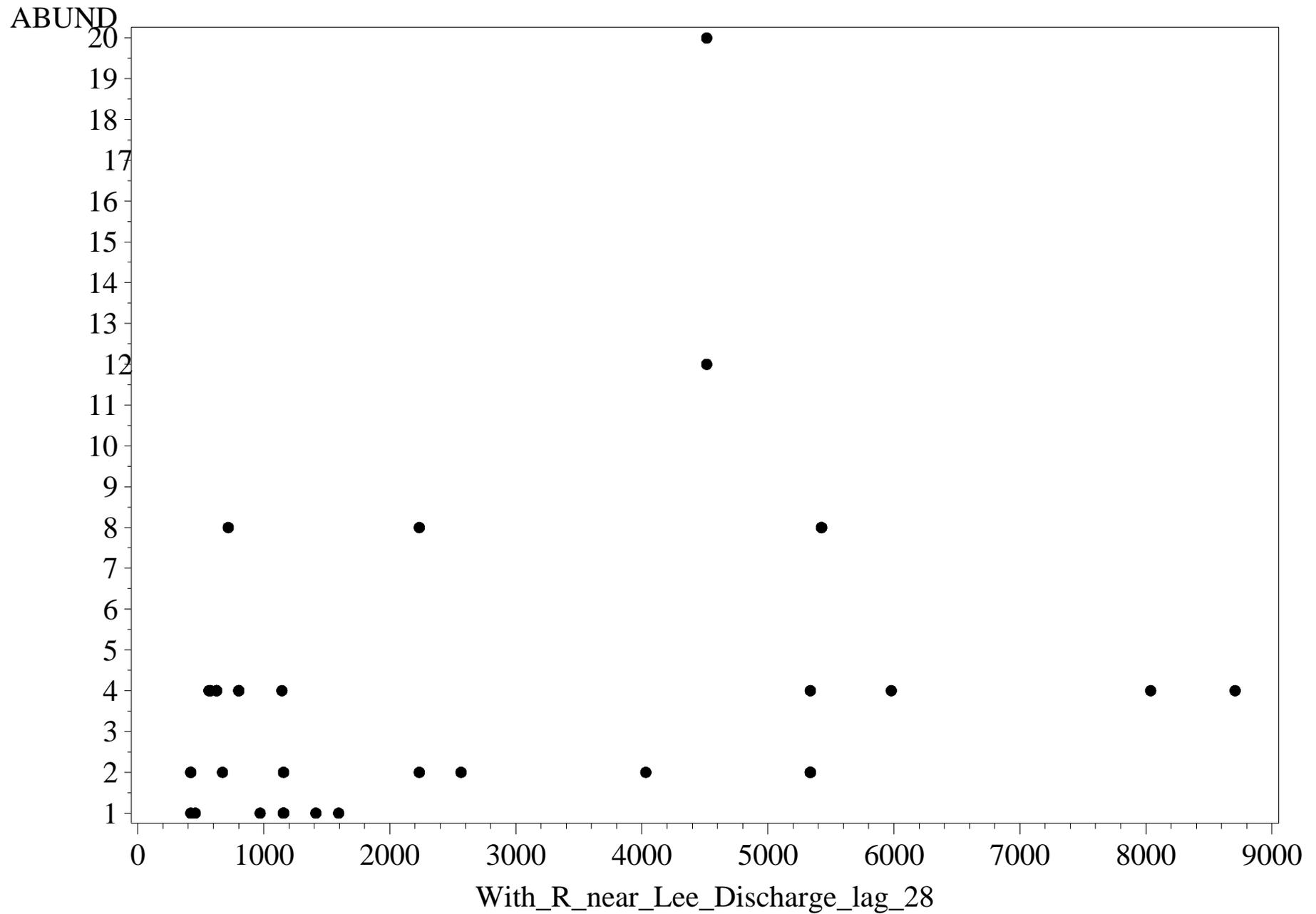
Individual Benthic Species vs. 28 Day Lag of Estimated Withlacoochee Flow (at Lee)
name=UNID CERATOPOGONID SP.



Individual Benthic Species vs. 28 Day Lag of Estimated Withlacoochee Flow (at Lee)
name=UNID HYDROBIID SP.

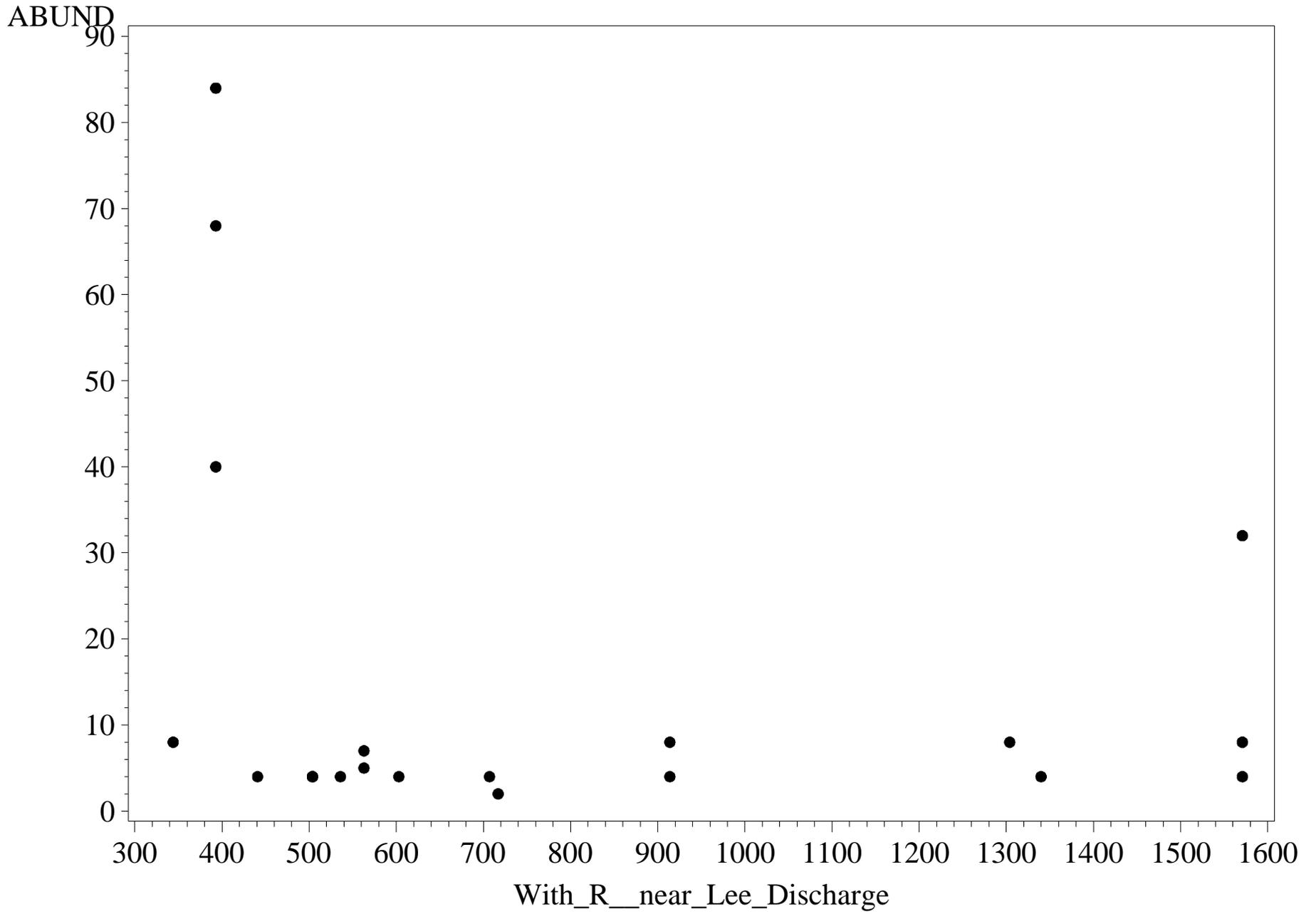


Individual Benthic Species vs. 28 Day Lag of Estimated Withlacoochee Flow (at Lee)
name=UNID NEMATODE SP.

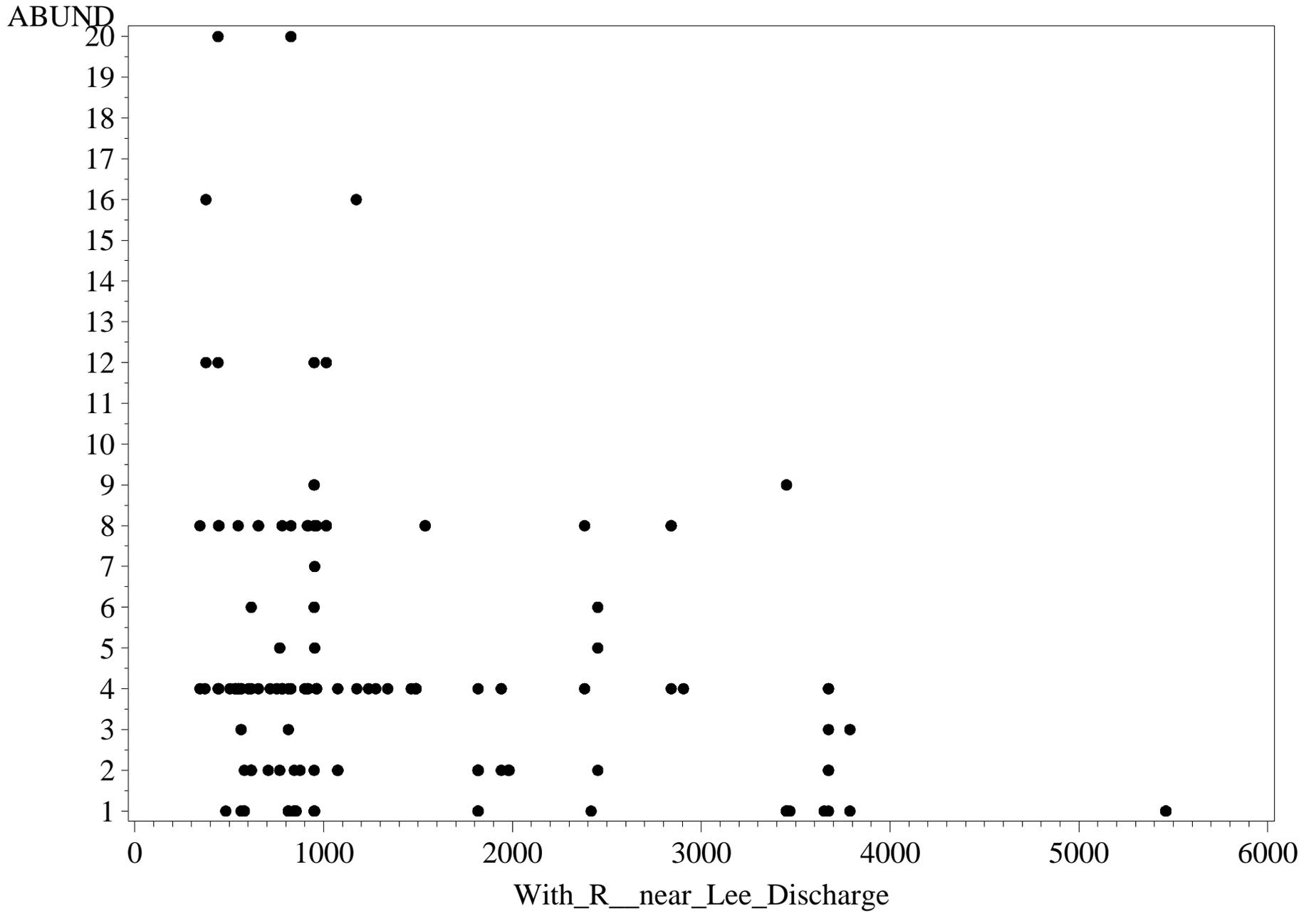


APPENDIX C2

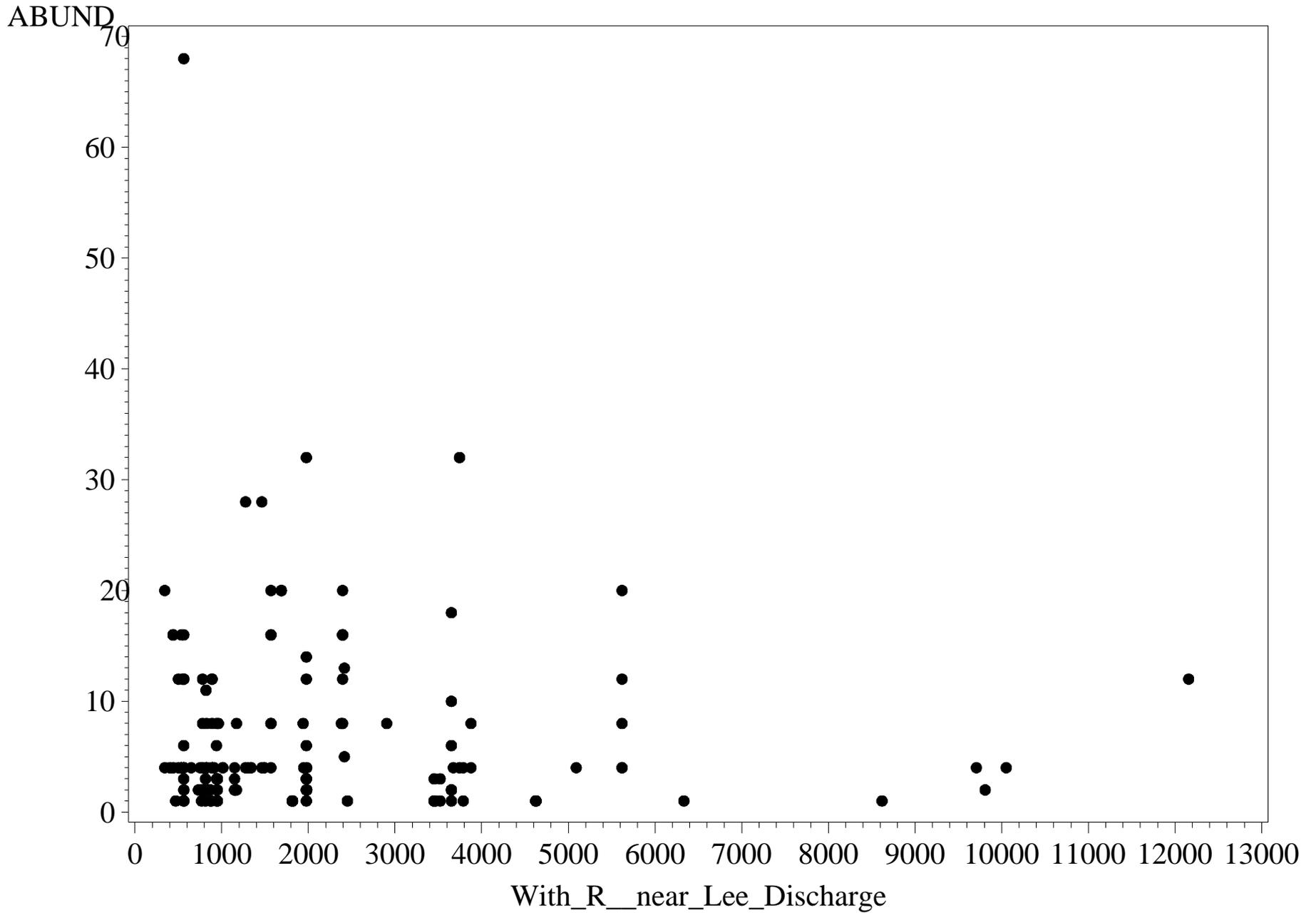
Taxonomic Family vs. Estimated Withlacoochee Flow (at Lee)
family=Aeolosomatid



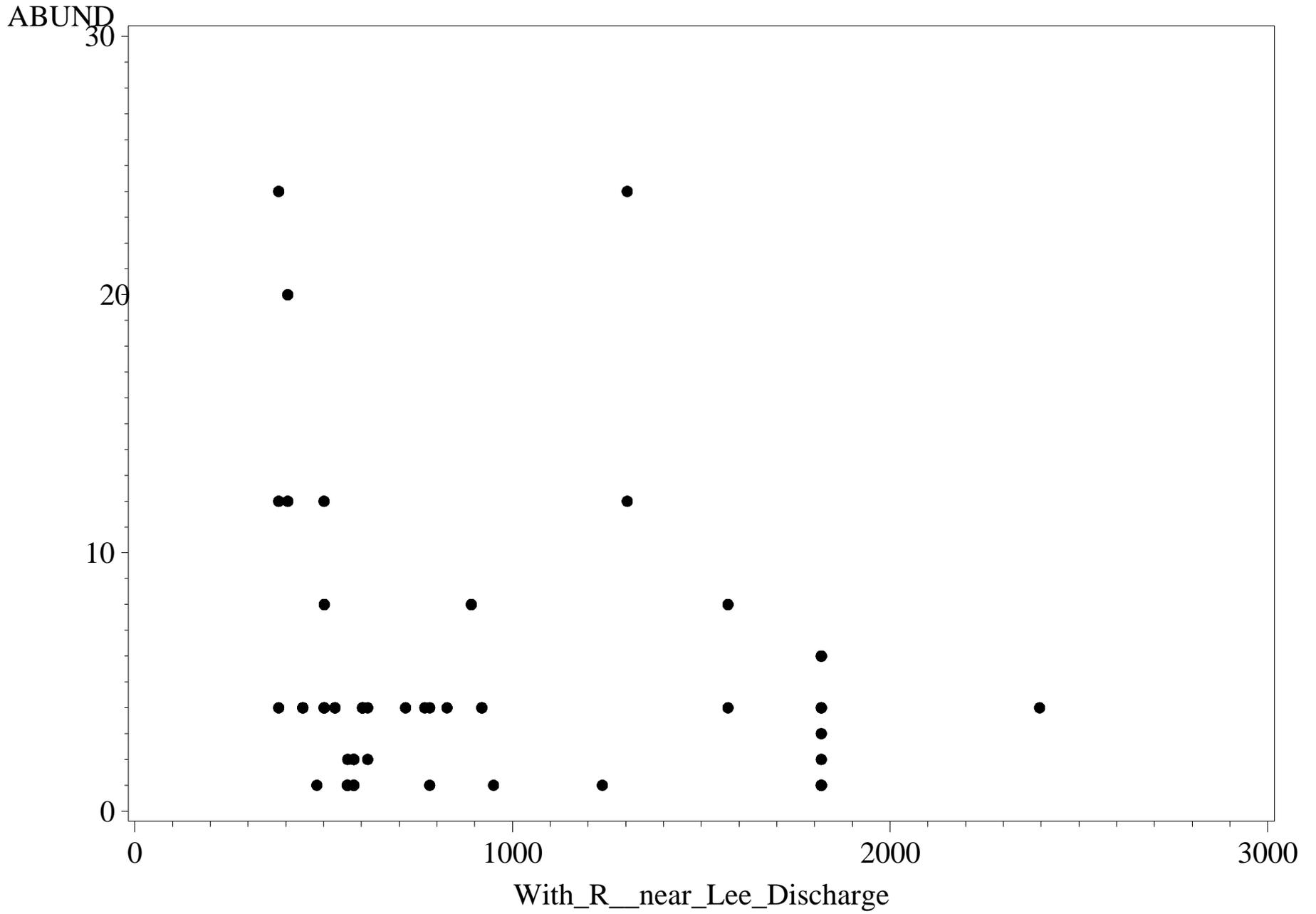
Taxonomic Family vs. Estimated Withlacoochee Flow (at Lee)
family=Ancylidae



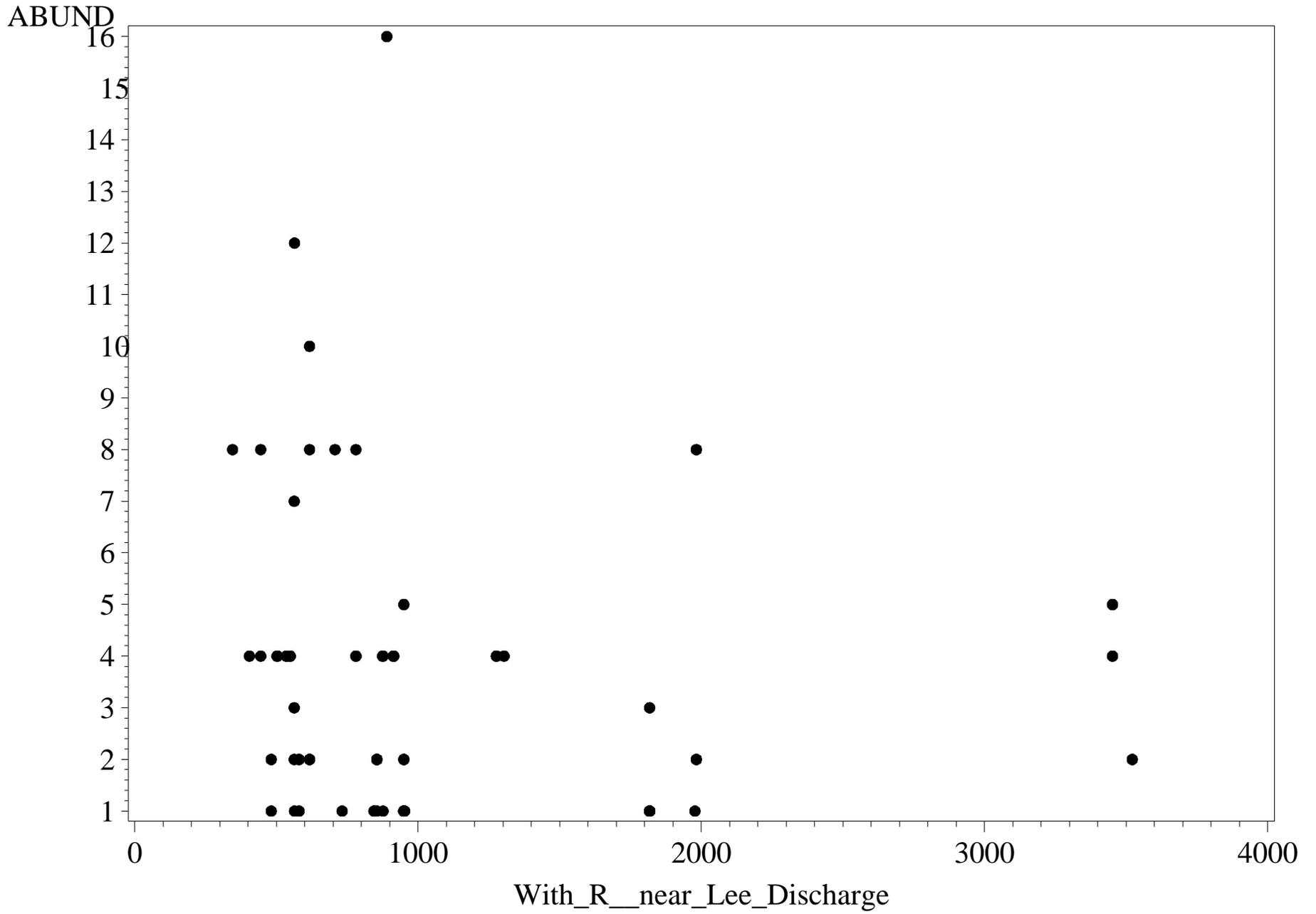
Taxonomic Family vs. Estimated Withlacoochee Flow (at Lee)
family=Baetidae



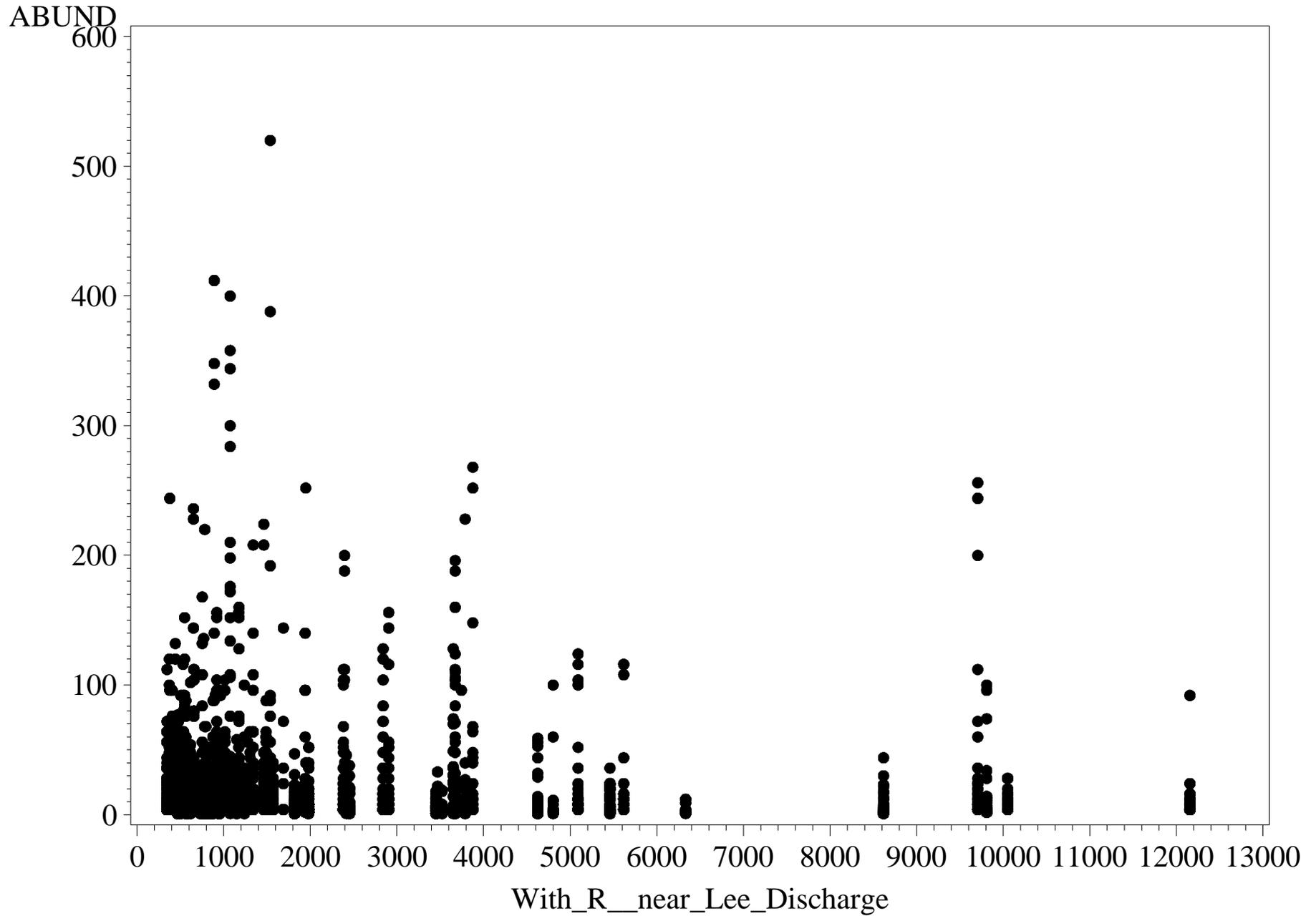
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family=Caenidae



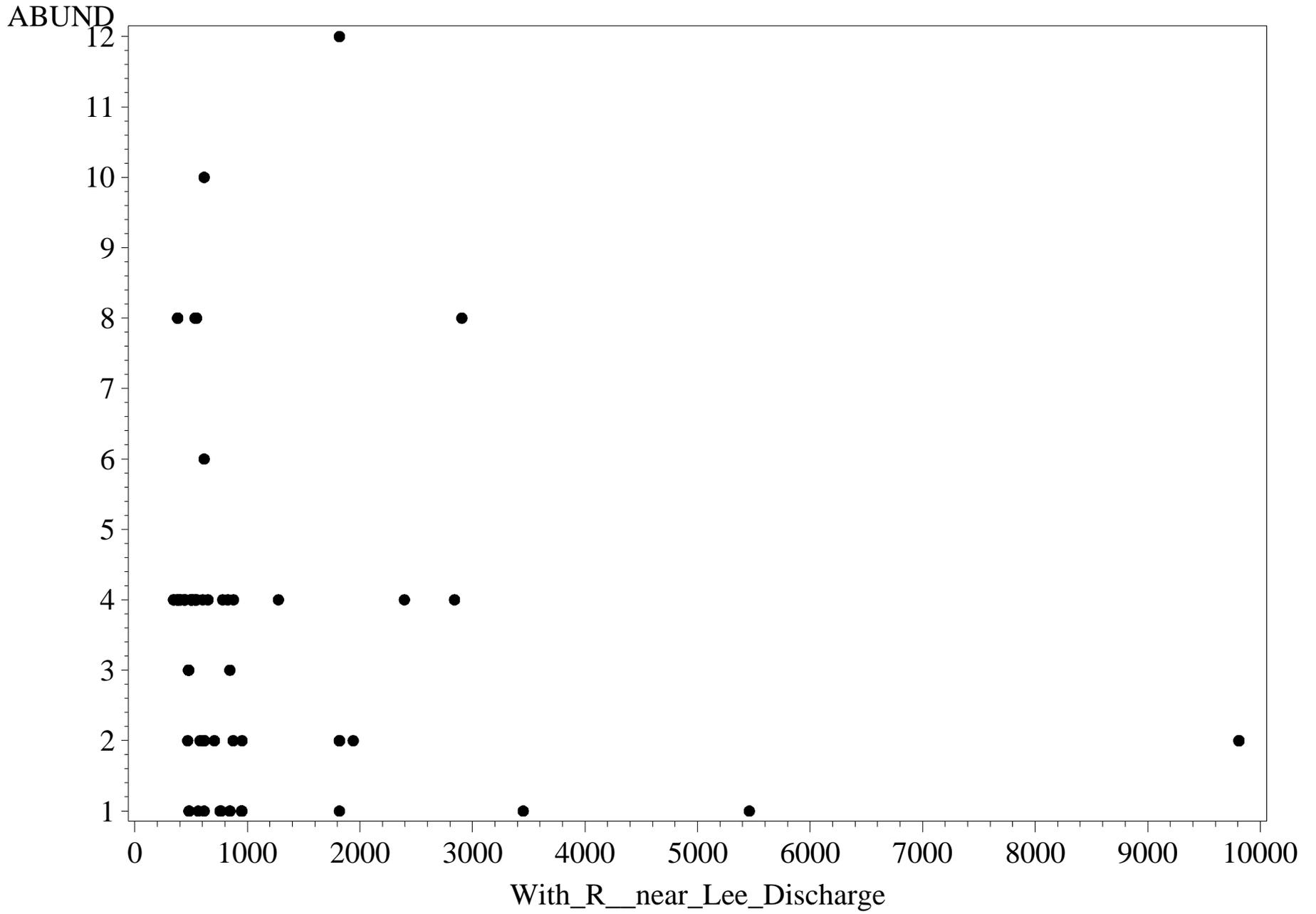
Taxonomic Family vs. Estimated Withlacoochee Flow (at Lee)
family=Ceratopogoni



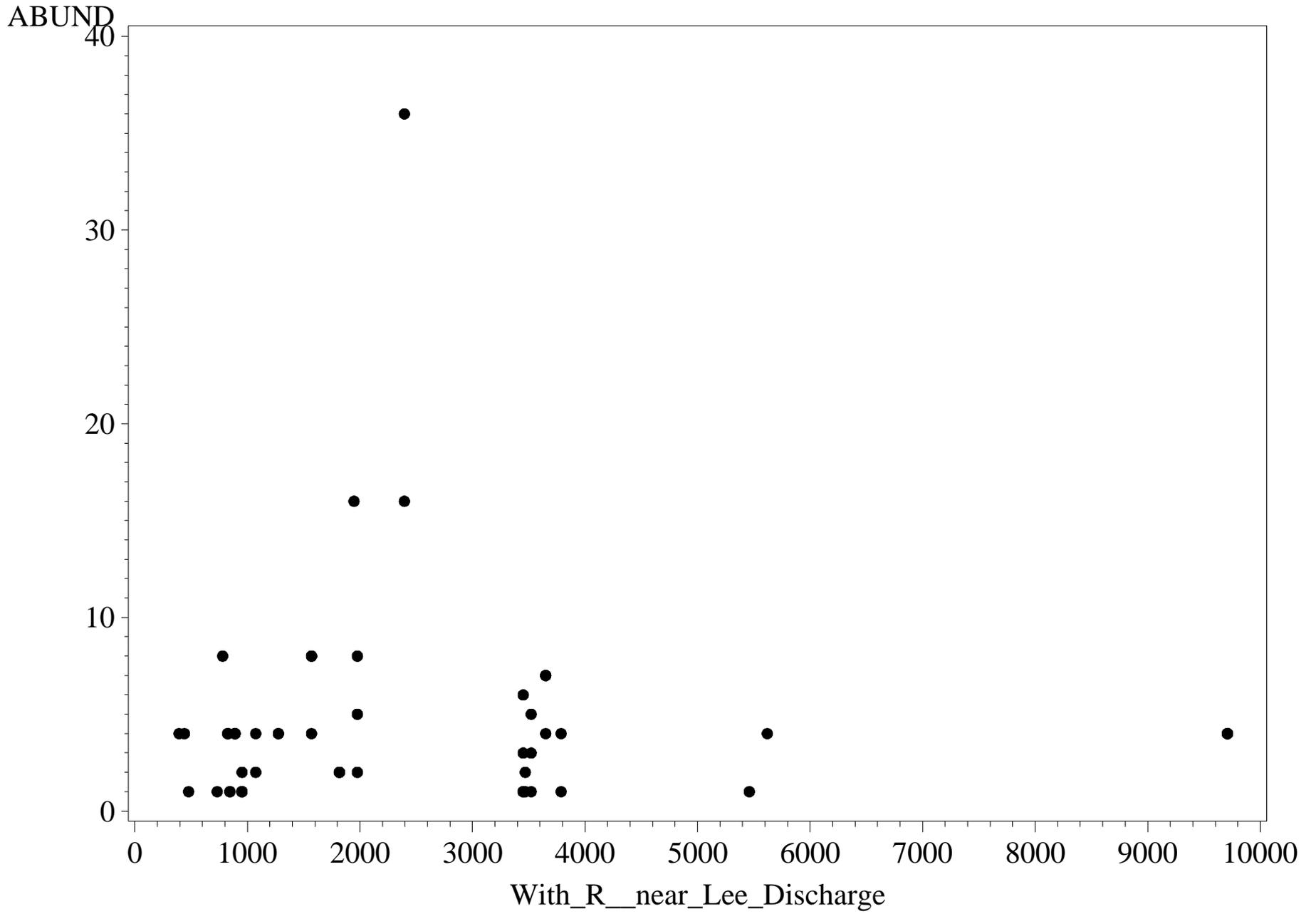
Taxonomic Family vs. Estimated Withlacoochee Flow (at Lee)
family=Chironomidae



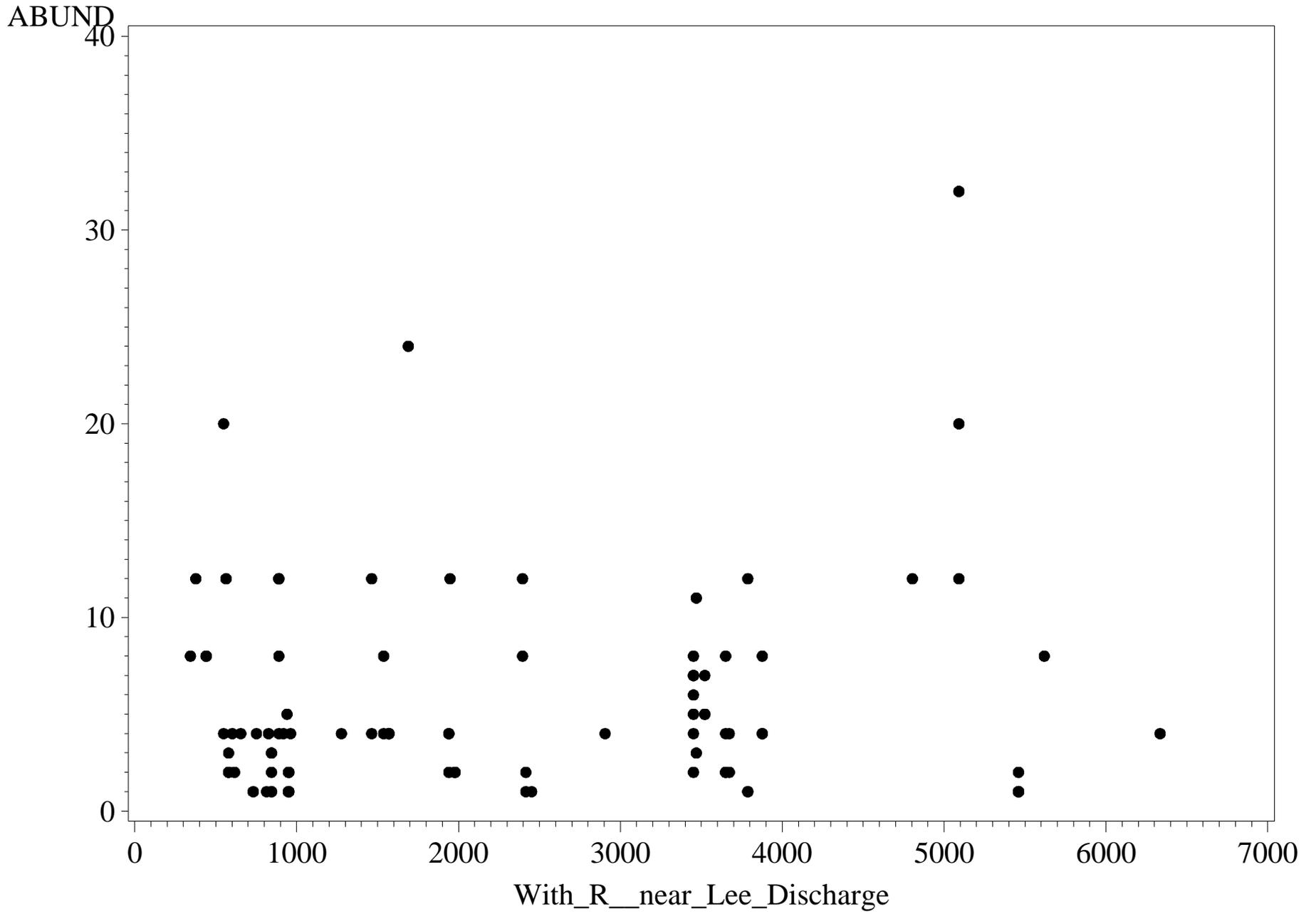
Taxonomic Family vs. Estimated Withlacoochee Flow (at Lee)
family=Coenagrionid



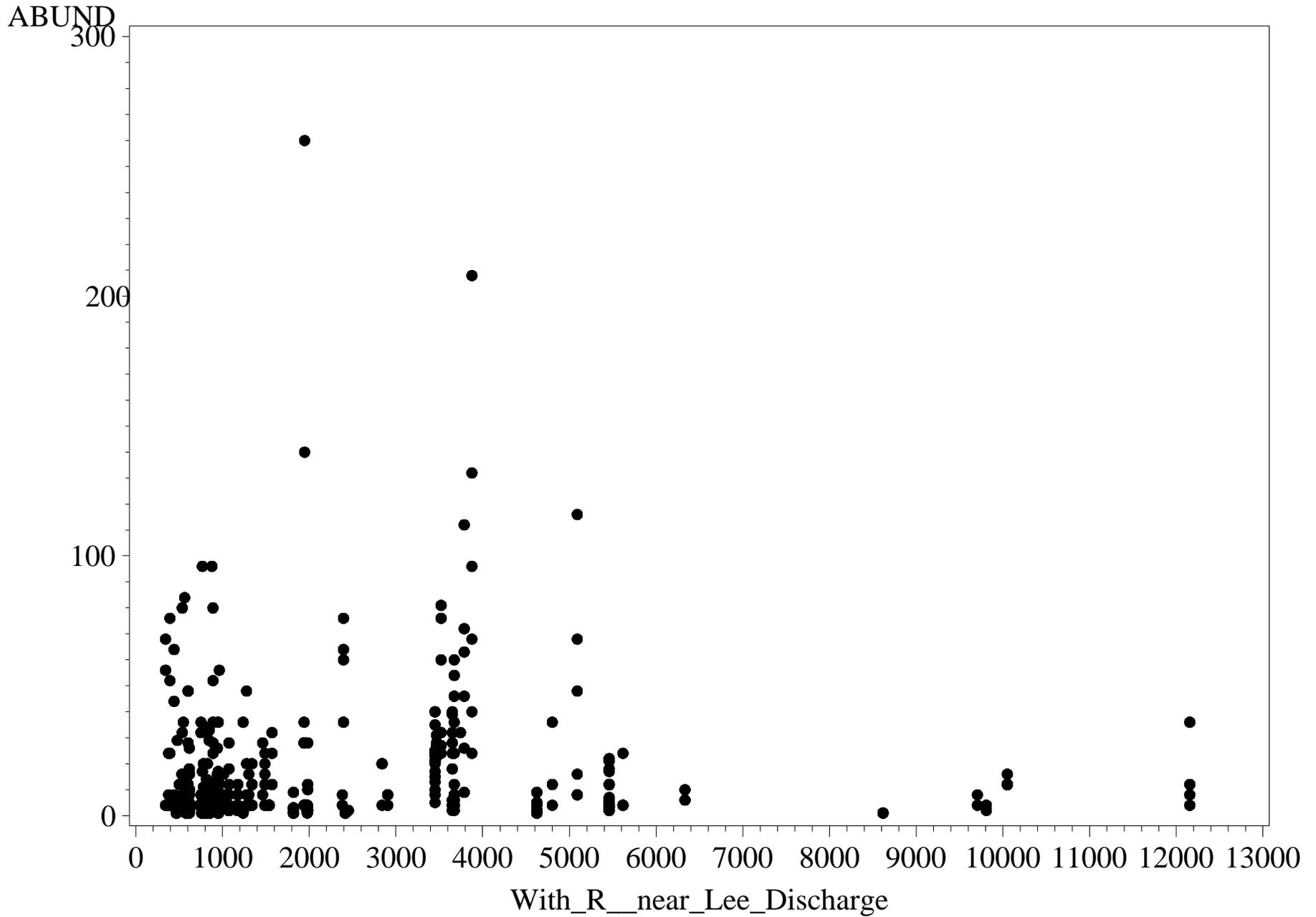
Taxonomic Family vs. Estimated Withlacoochee Flow (at Lee)
family=Corydalidae



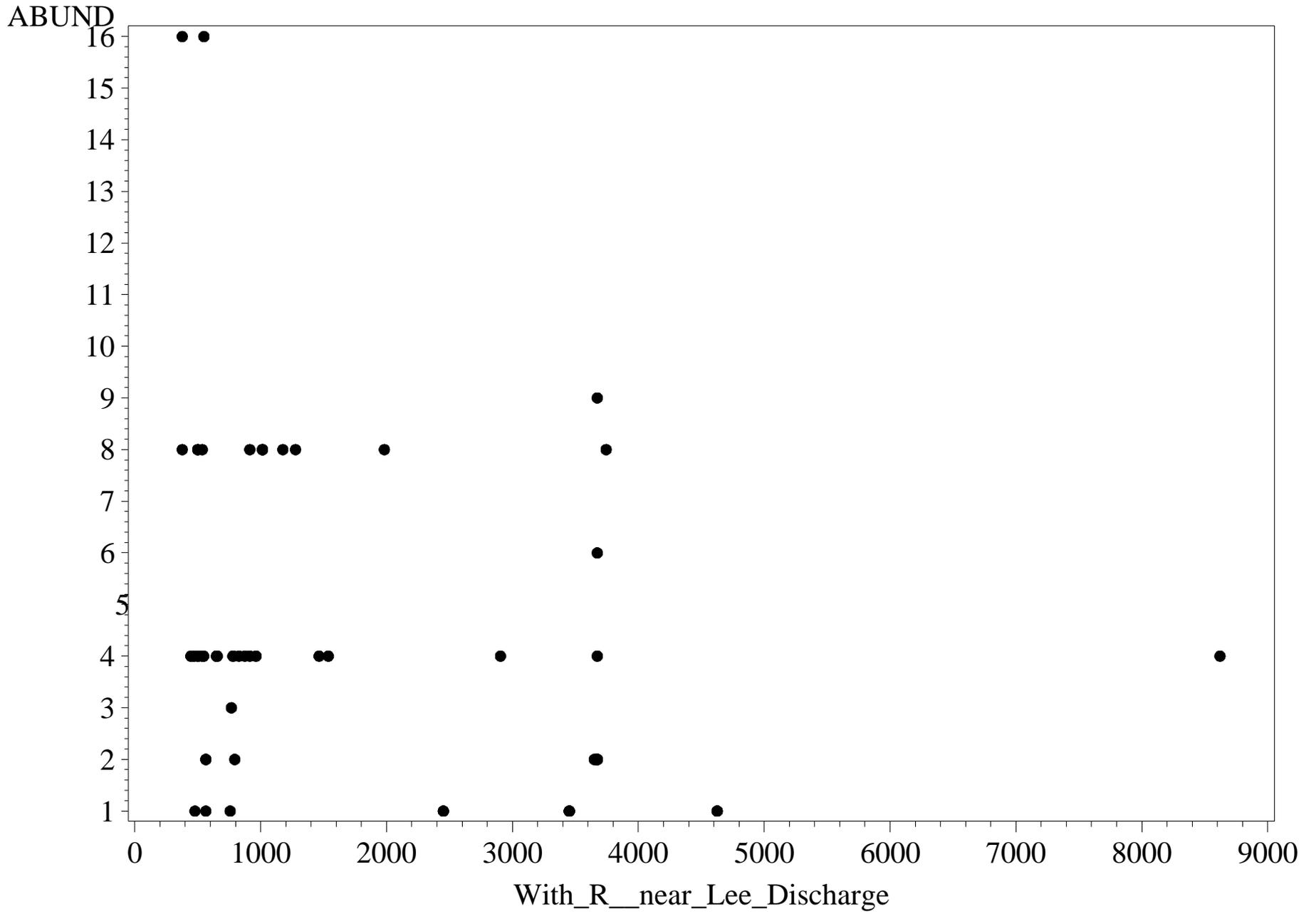
Taxonomic Family vs. Estimated Withlacoochee Flow (at Lee)
family=Empididae



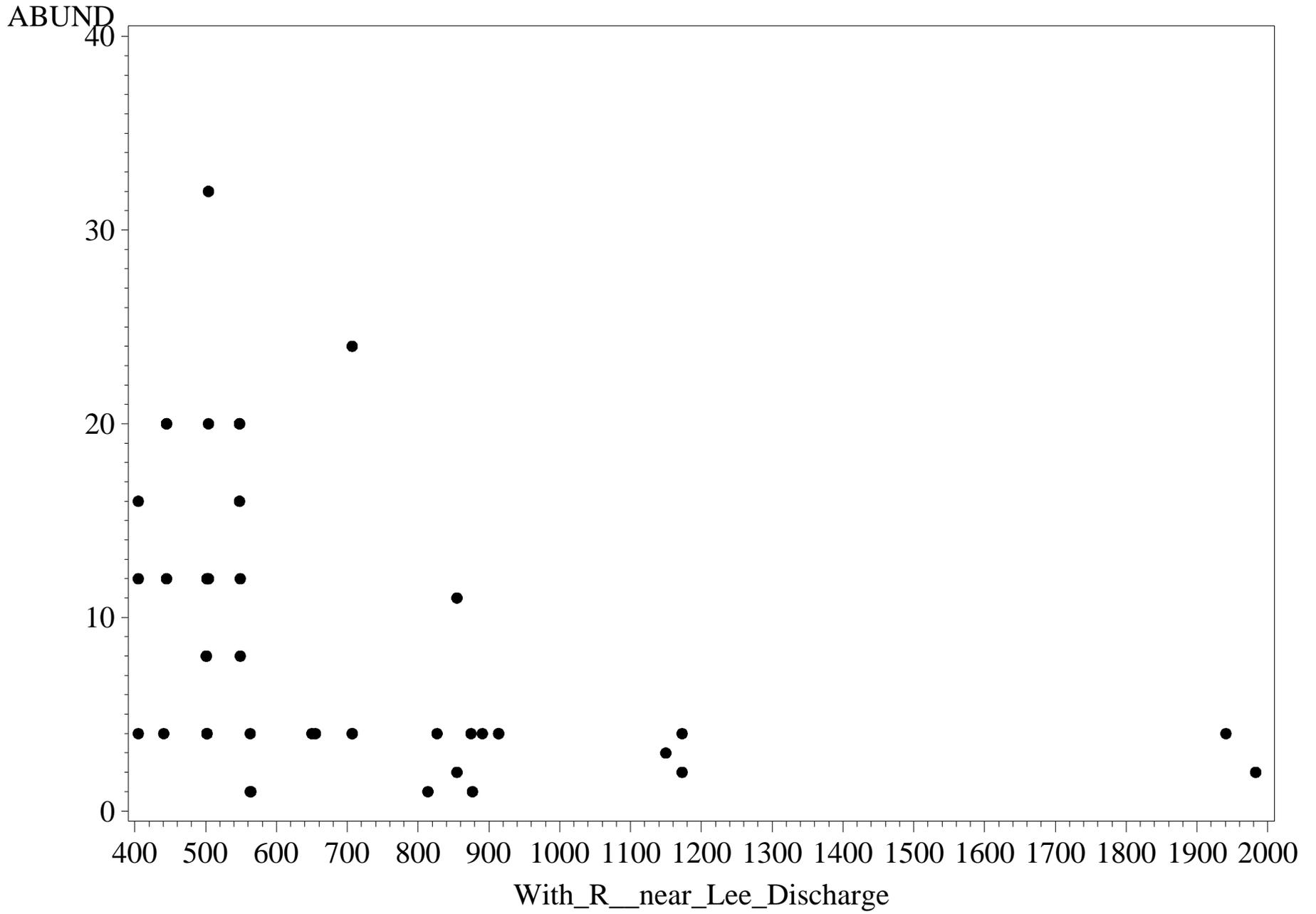
Taxonomic Family vs. Estimated Withlacoochee Flow (at Lee)
family=Heptageniida



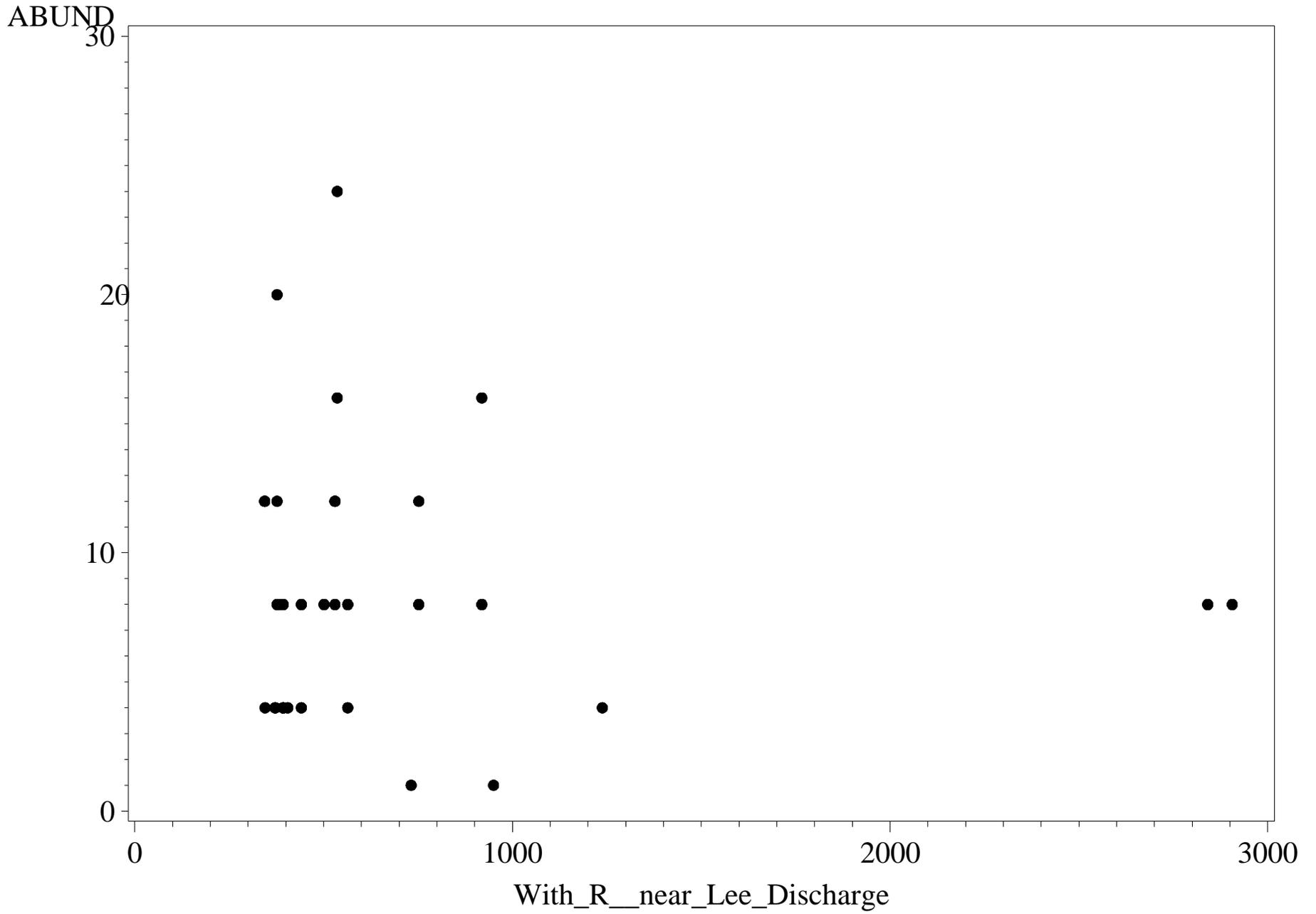
Taxonomic Family vs. Estimated Withlacoochee Flow (at Lee)
family=Hydridae



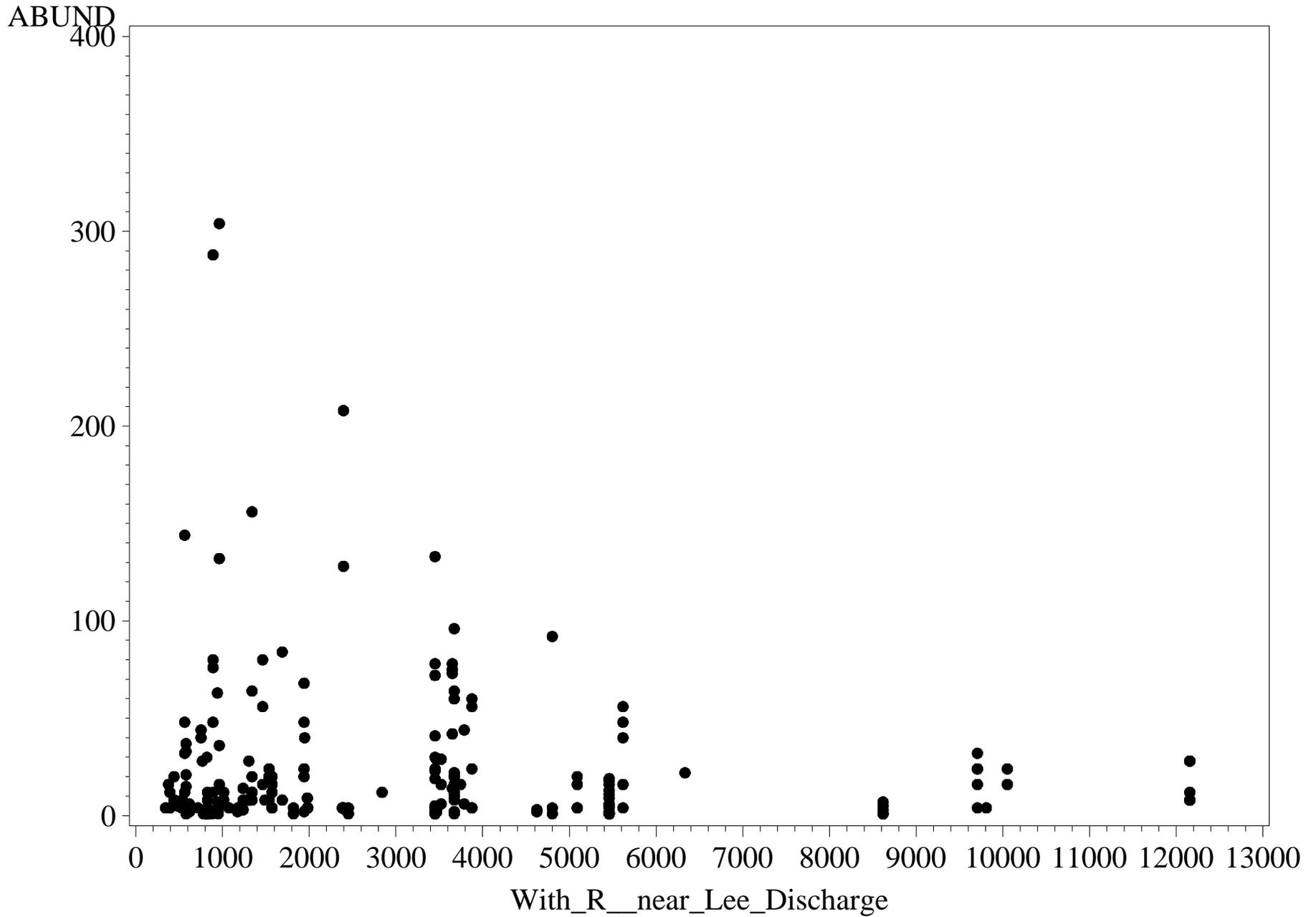
Taxonomic Family vs. Estimated Withlacoochee Flow (at Lee)
family=Hydrobiidae



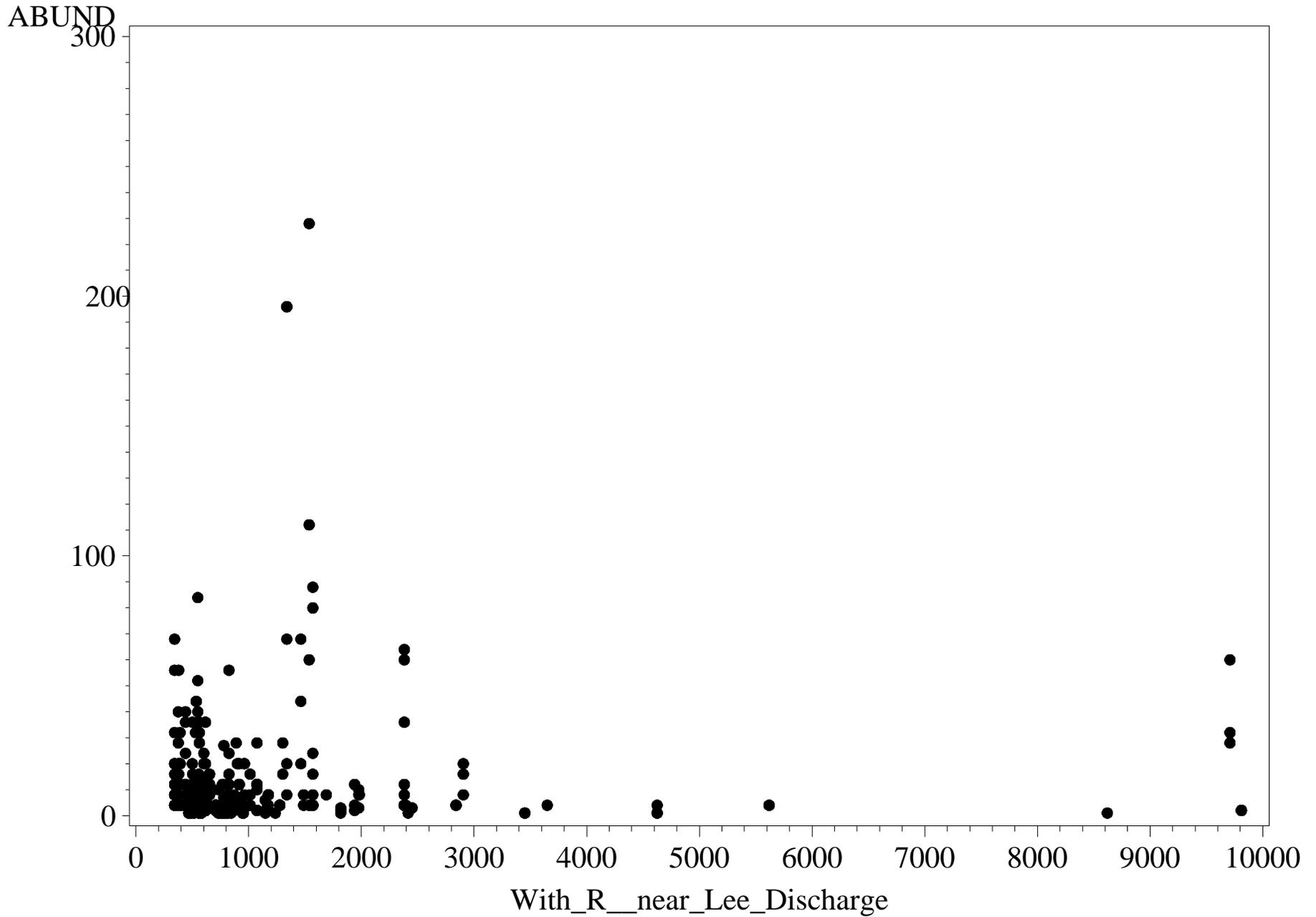
Taxonomic Family vs. Estimated Withlacoochee Flow (at Lee)
family=Hydrodromida



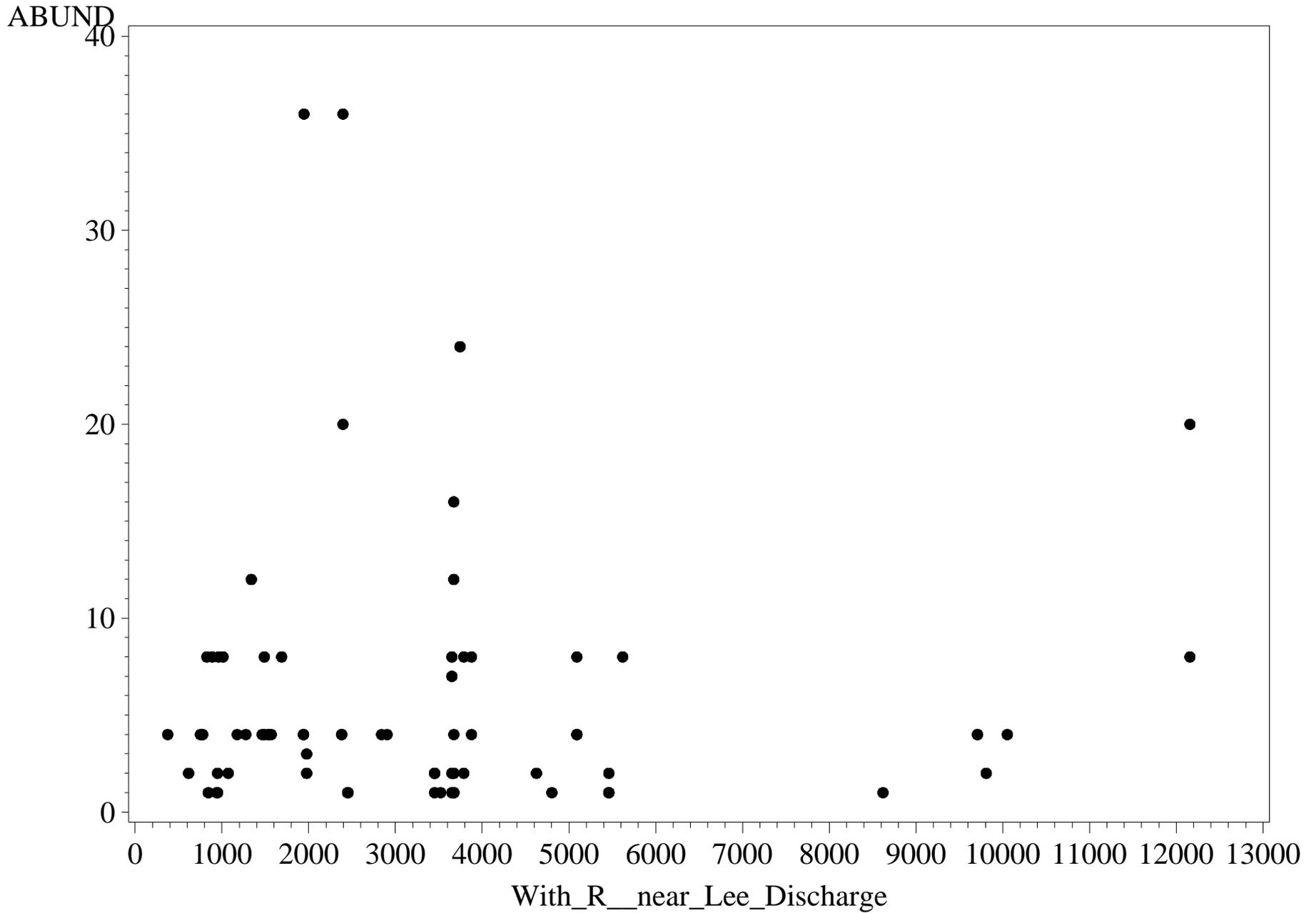
Taxonomic Family vs. Estimated Withlacoochee Flow (at Lee)
family=Hydropsychid



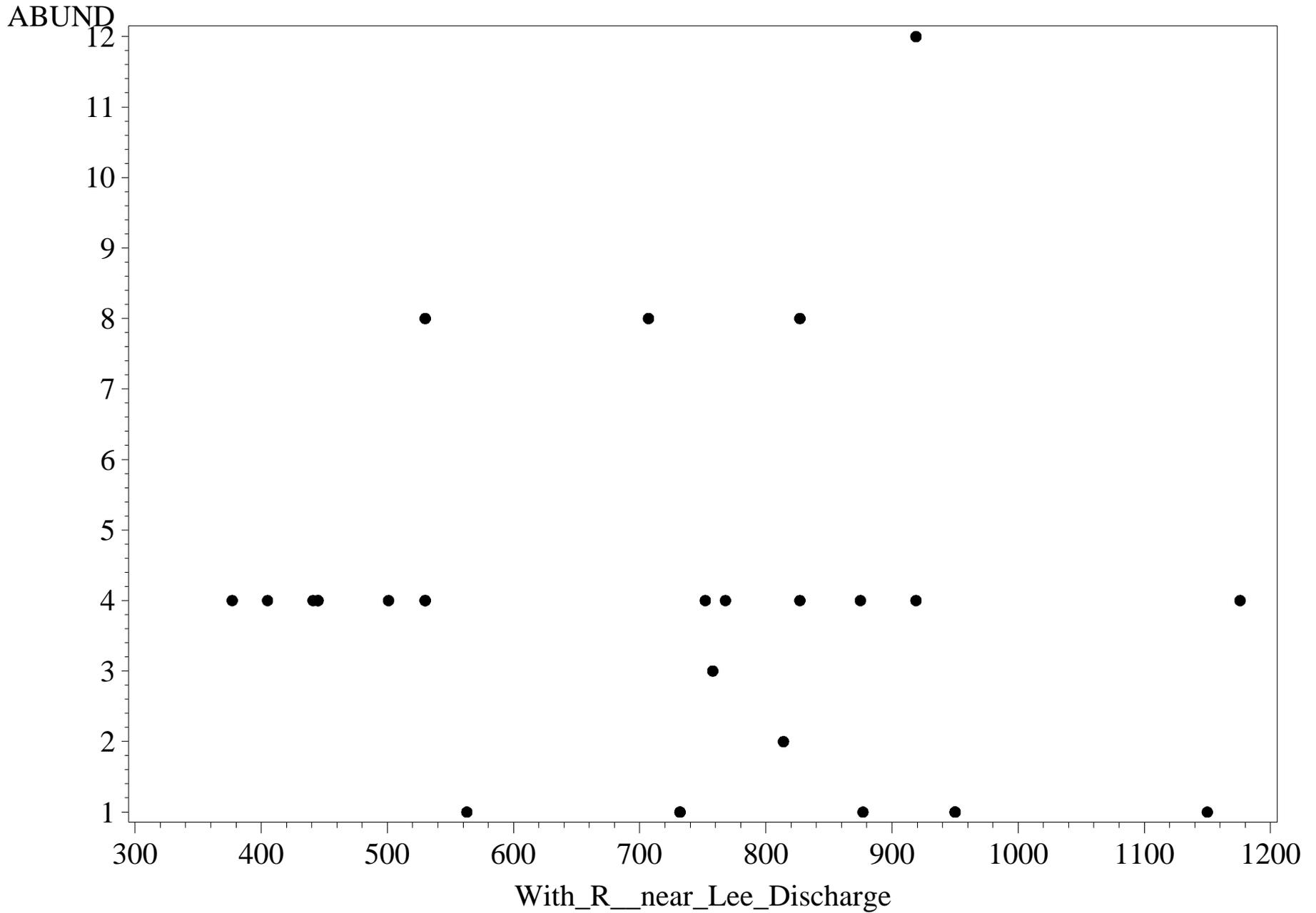
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family=Hydroptilida



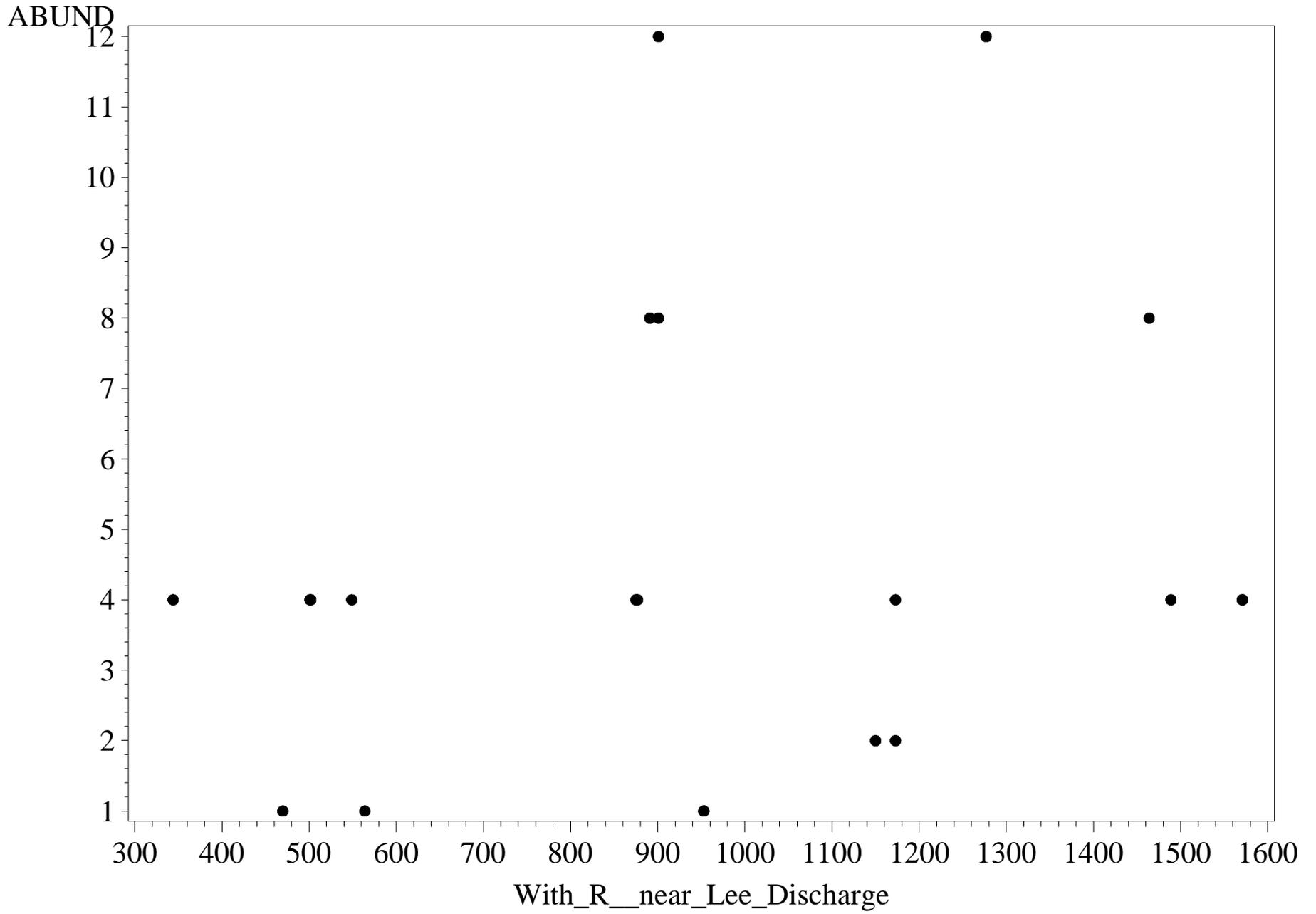
Taxonomic Family vs. Estimated Withlacoochee Flow (at Lee)
family=Isonychiidae



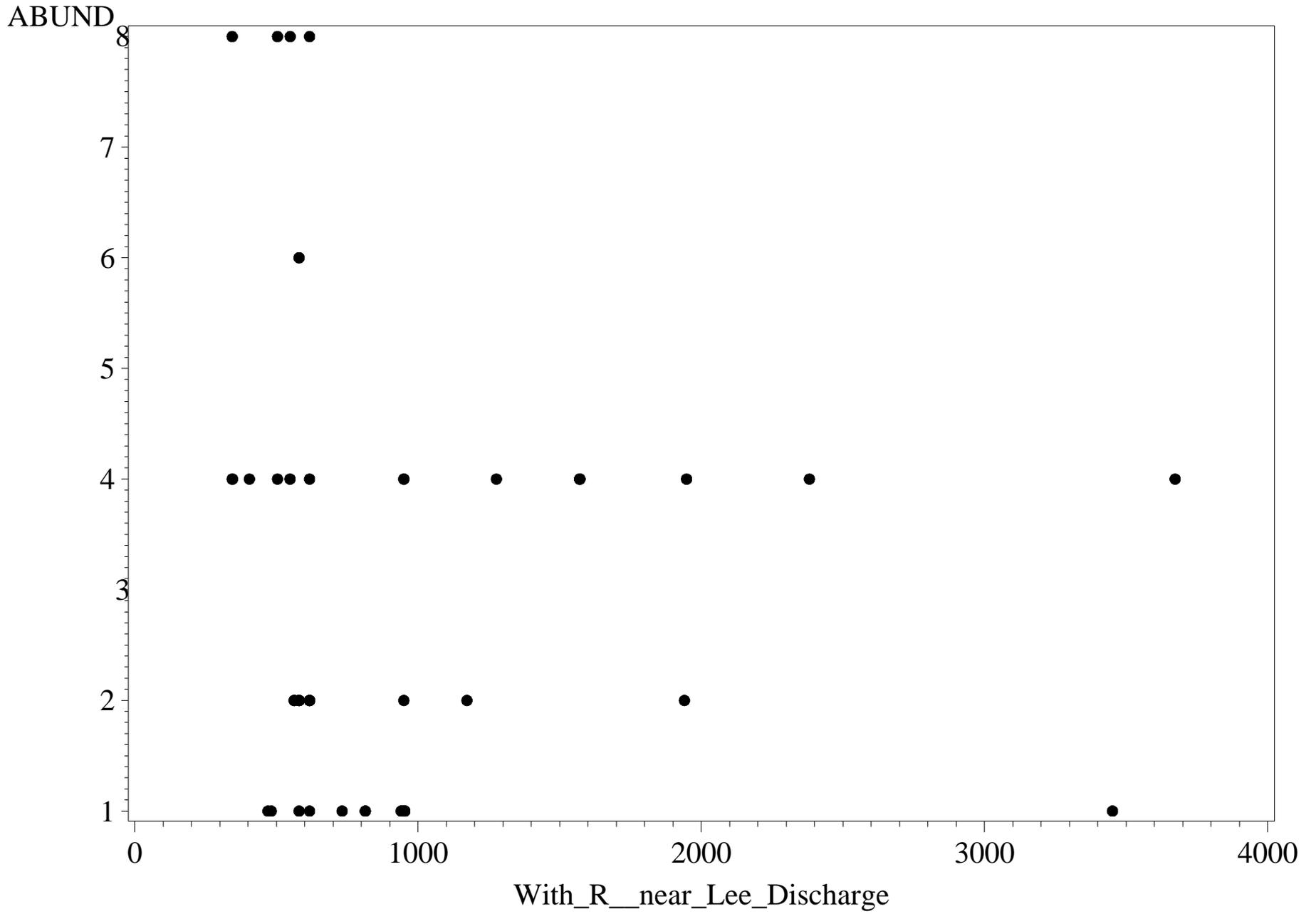
Taxonomic Family vs. Estimated Withlacoochee Flow (at Lee)
family=Isotomidae



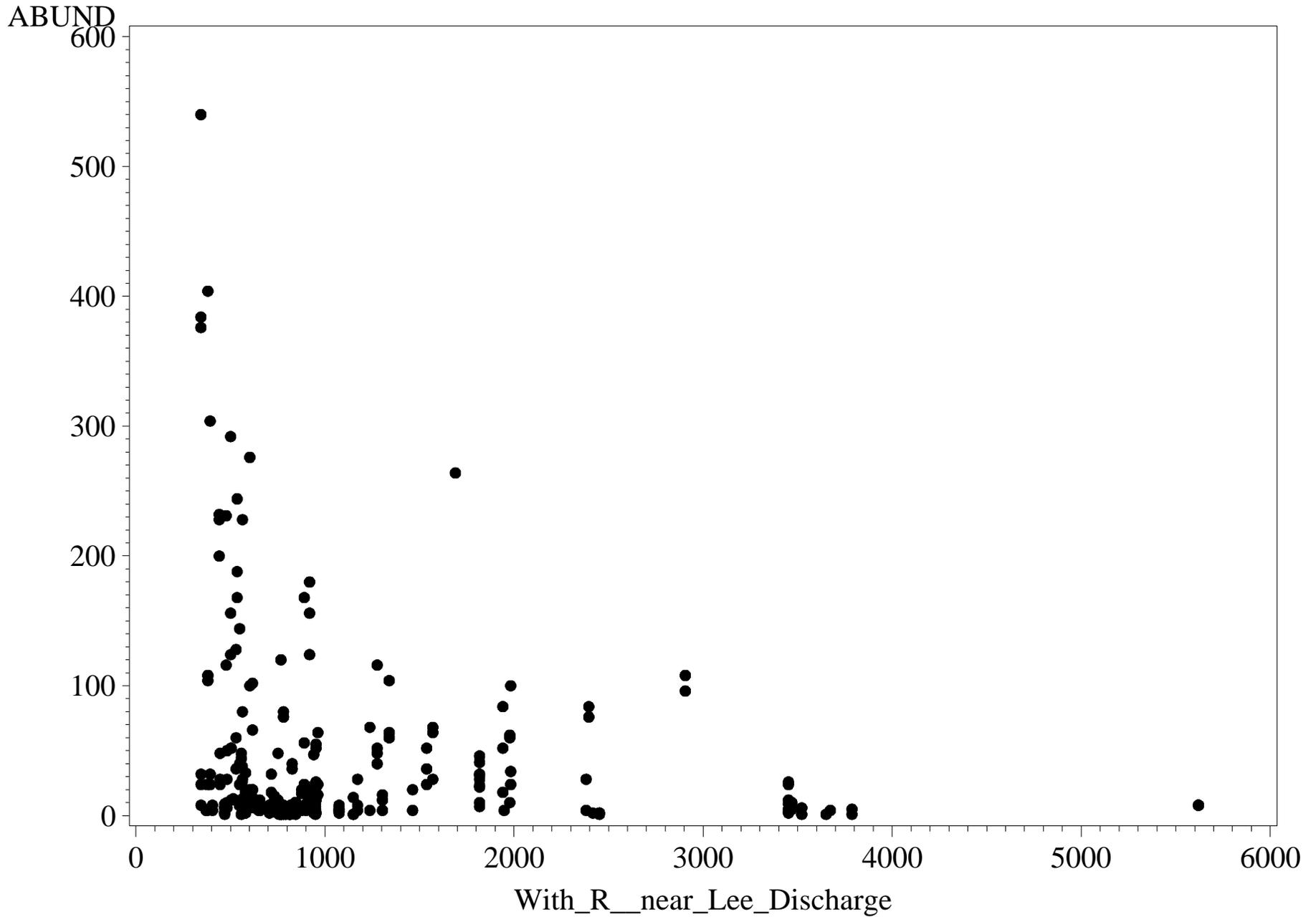
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family=Lebertiidae



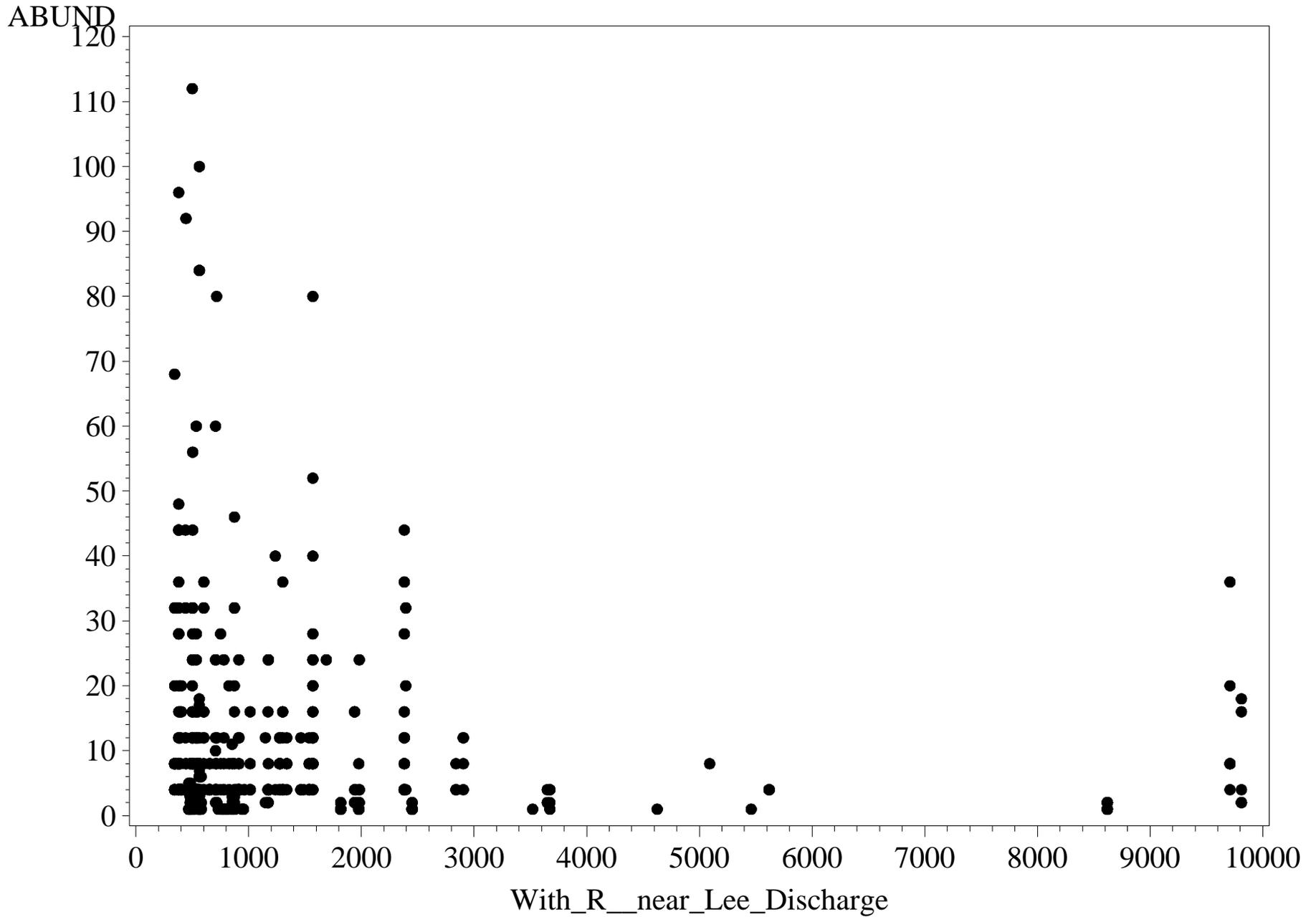
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family=Lectocerinae



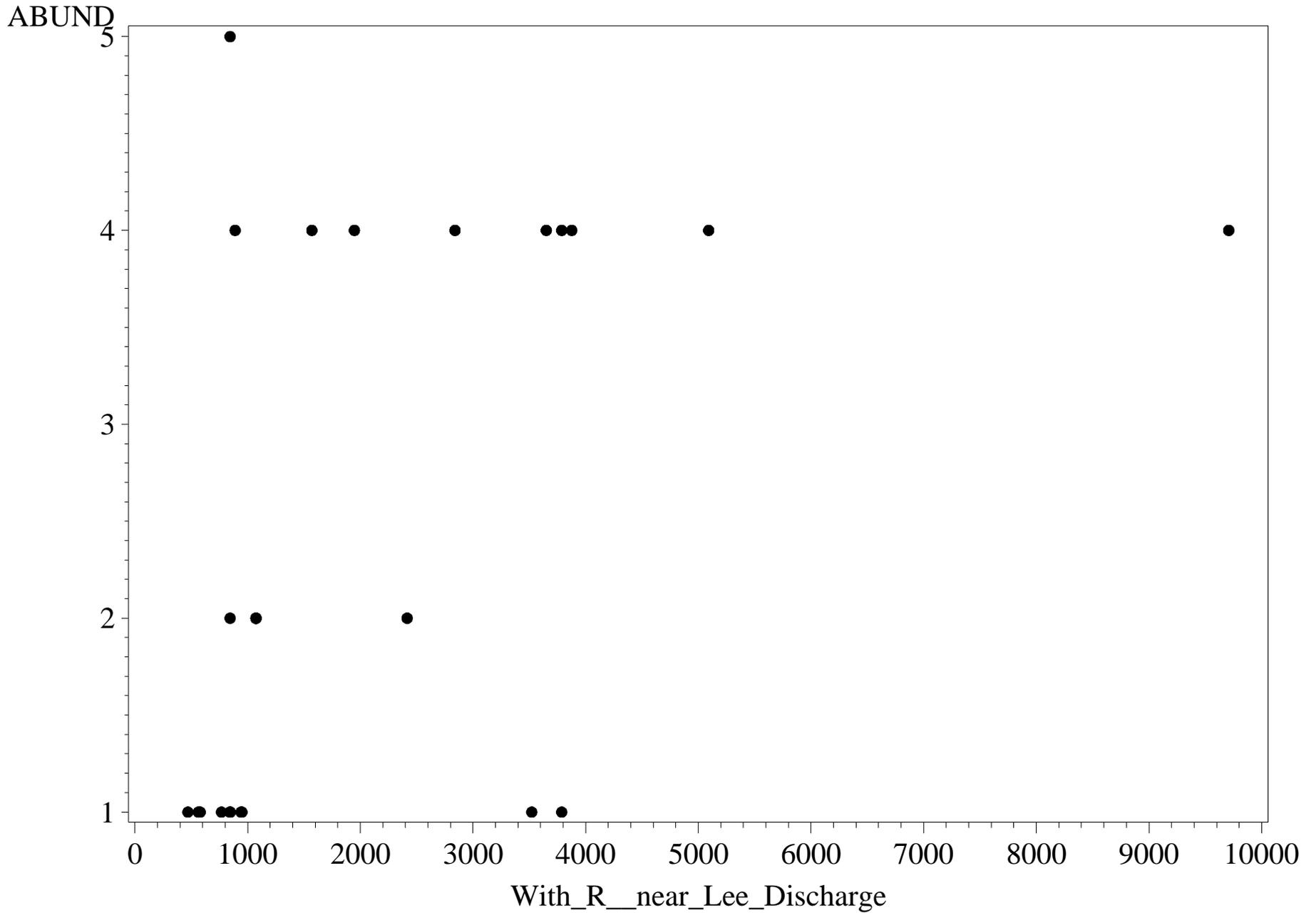
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family=Leptohyphida



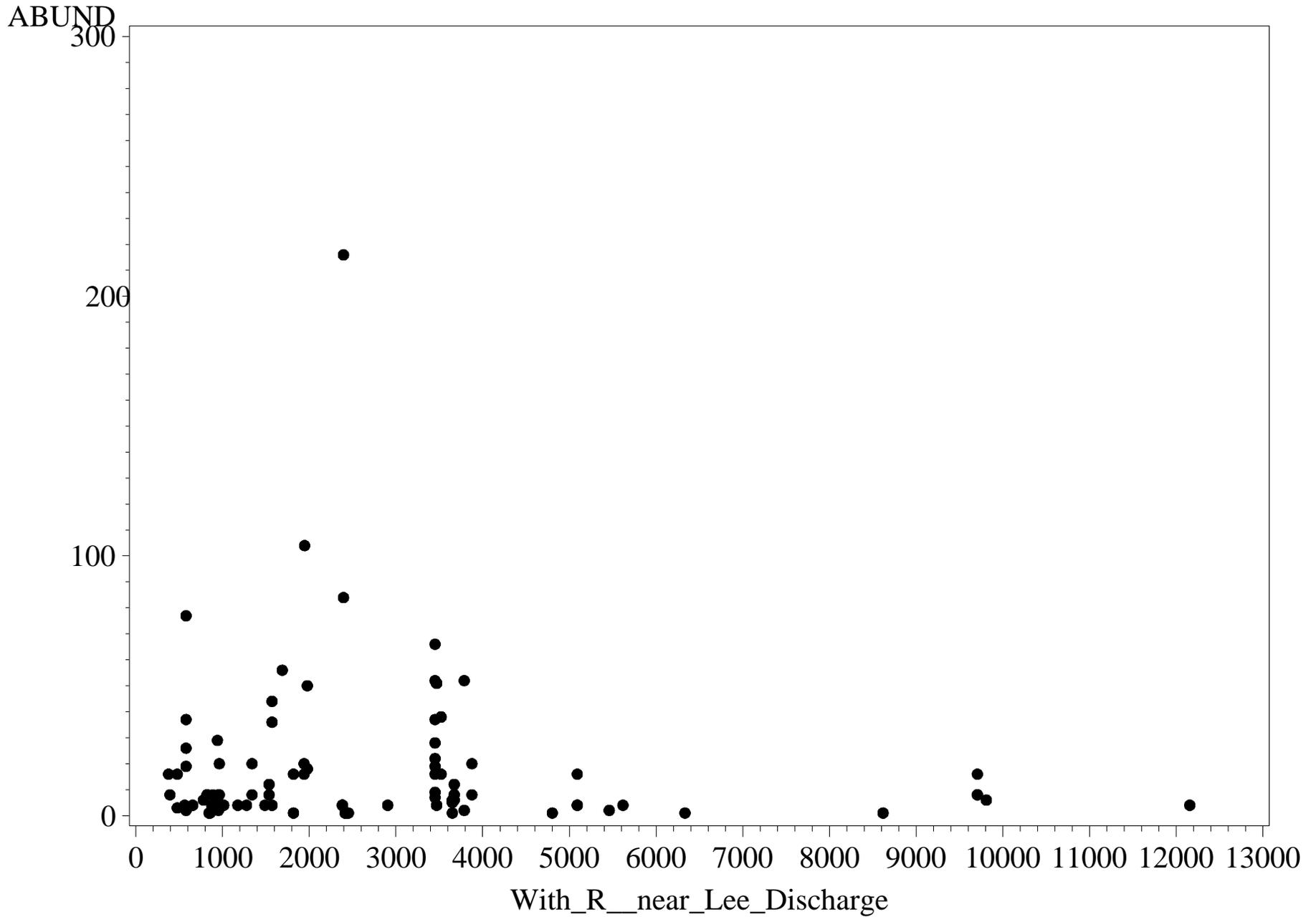
Taxonomic Family vs. Estimated Withlacoochee Flow (at Lee)
family=Naididae



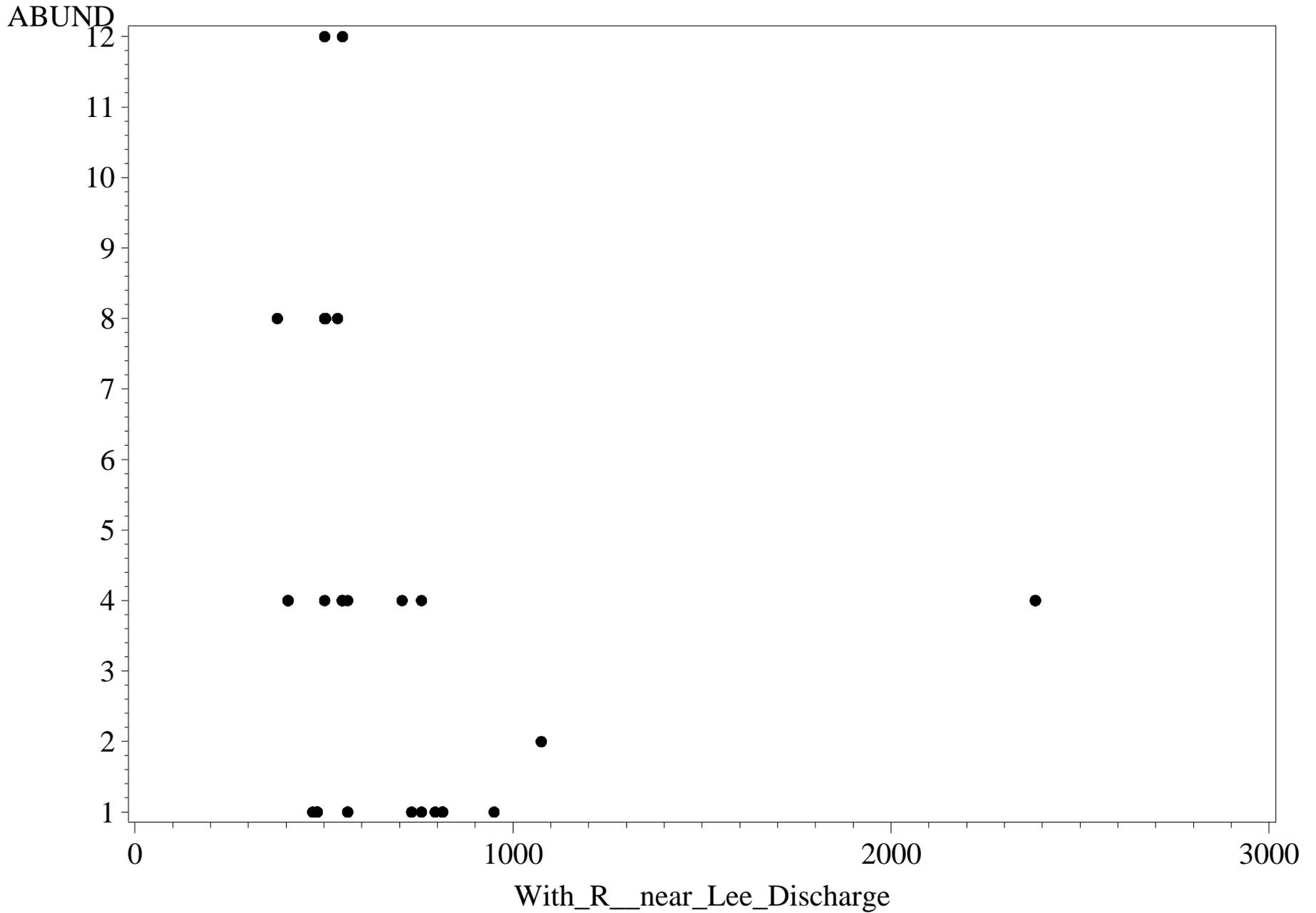
Taxonomic Family vs. Estimated Withlacoochee Flow (at Lee)
family=Perlidae



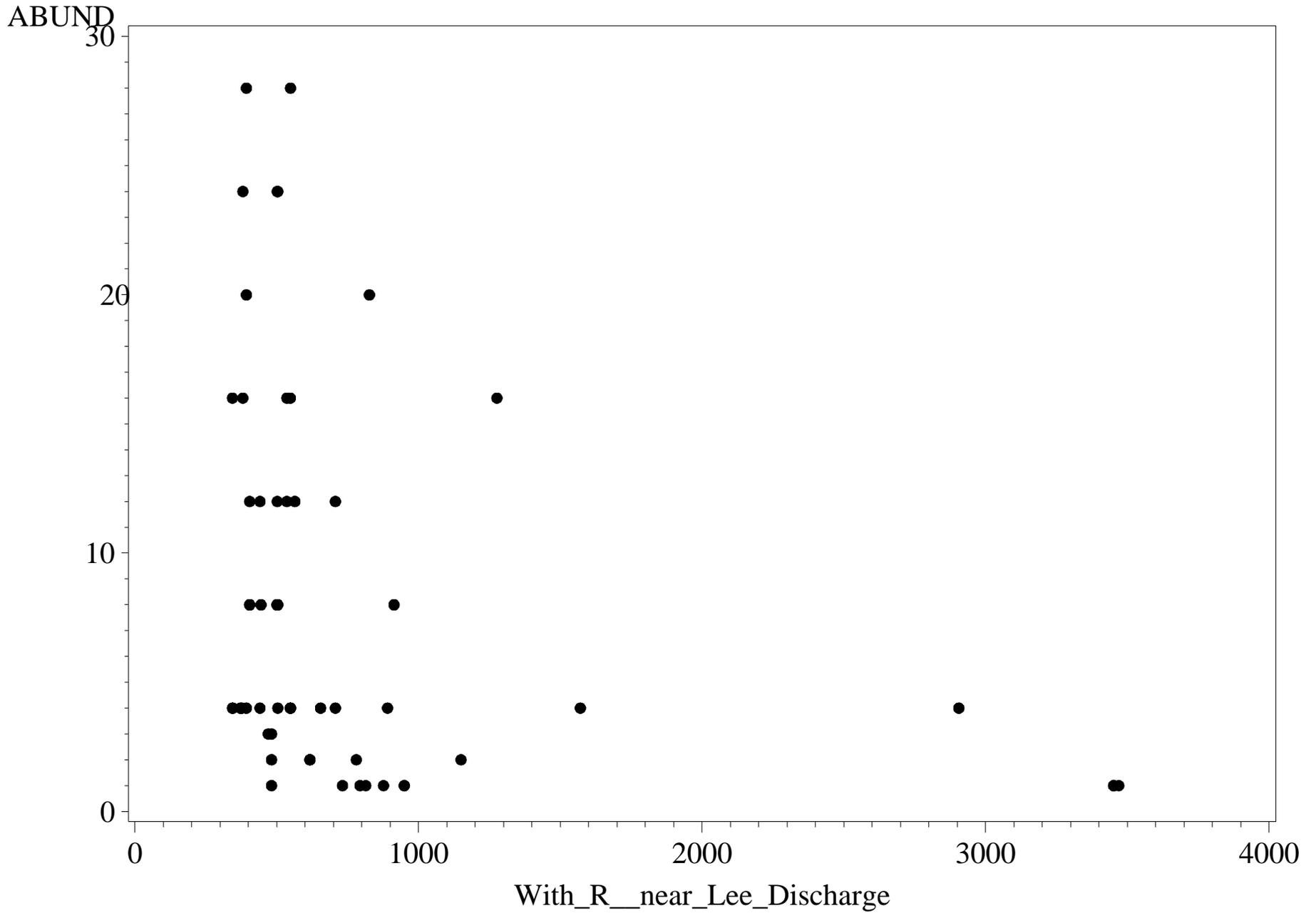
Taxonomic Family vs. Estimated Withlacoochee Flow (at Lee)
family=Philopotamid



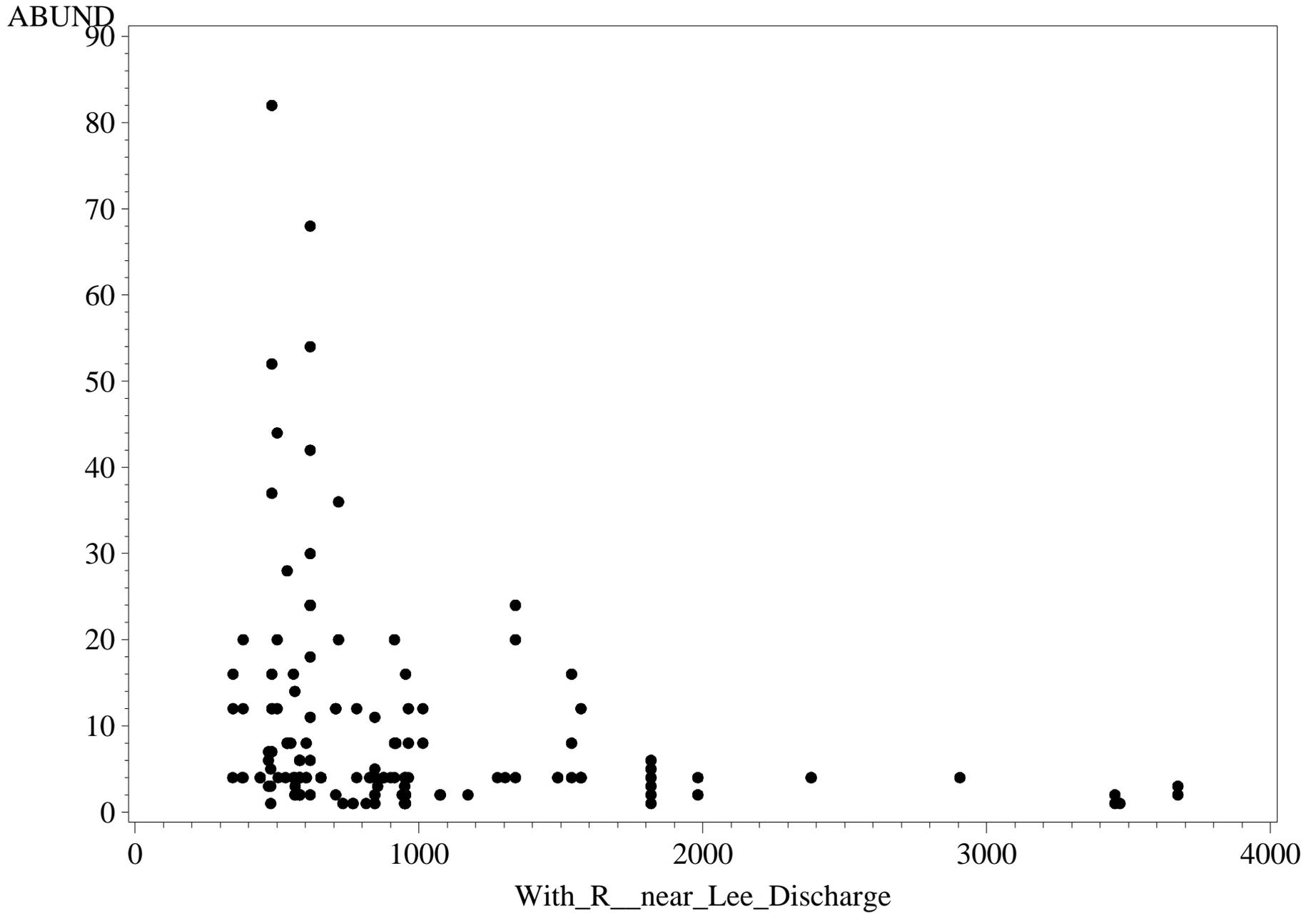
Taxonomic Family vs. Estimated Withlacoochee Flow (at Lee)
family=Physidae



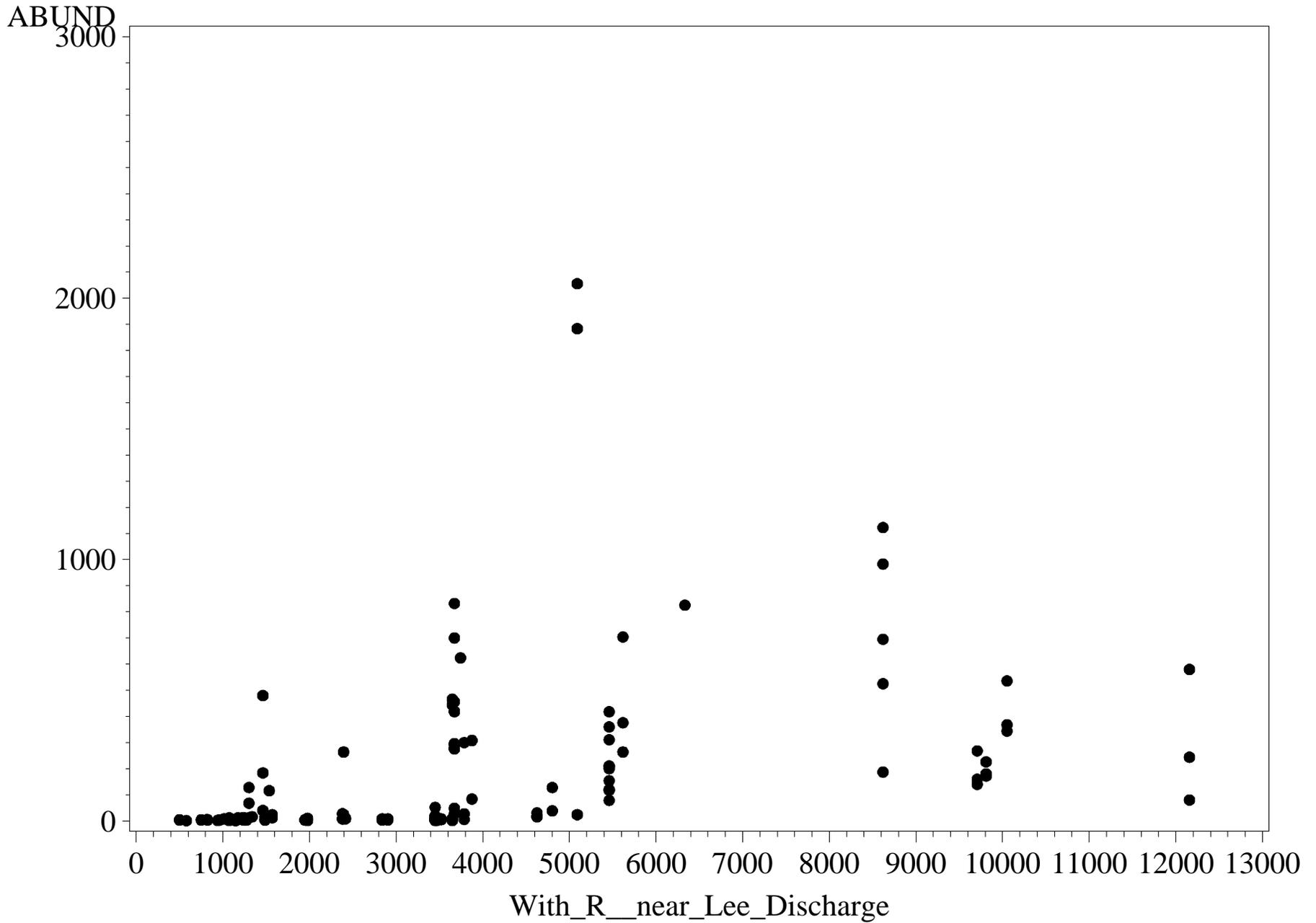
Taxonomic Family vs. Estimated Withlacoochee Flow (at Lee)
family=Planariidae



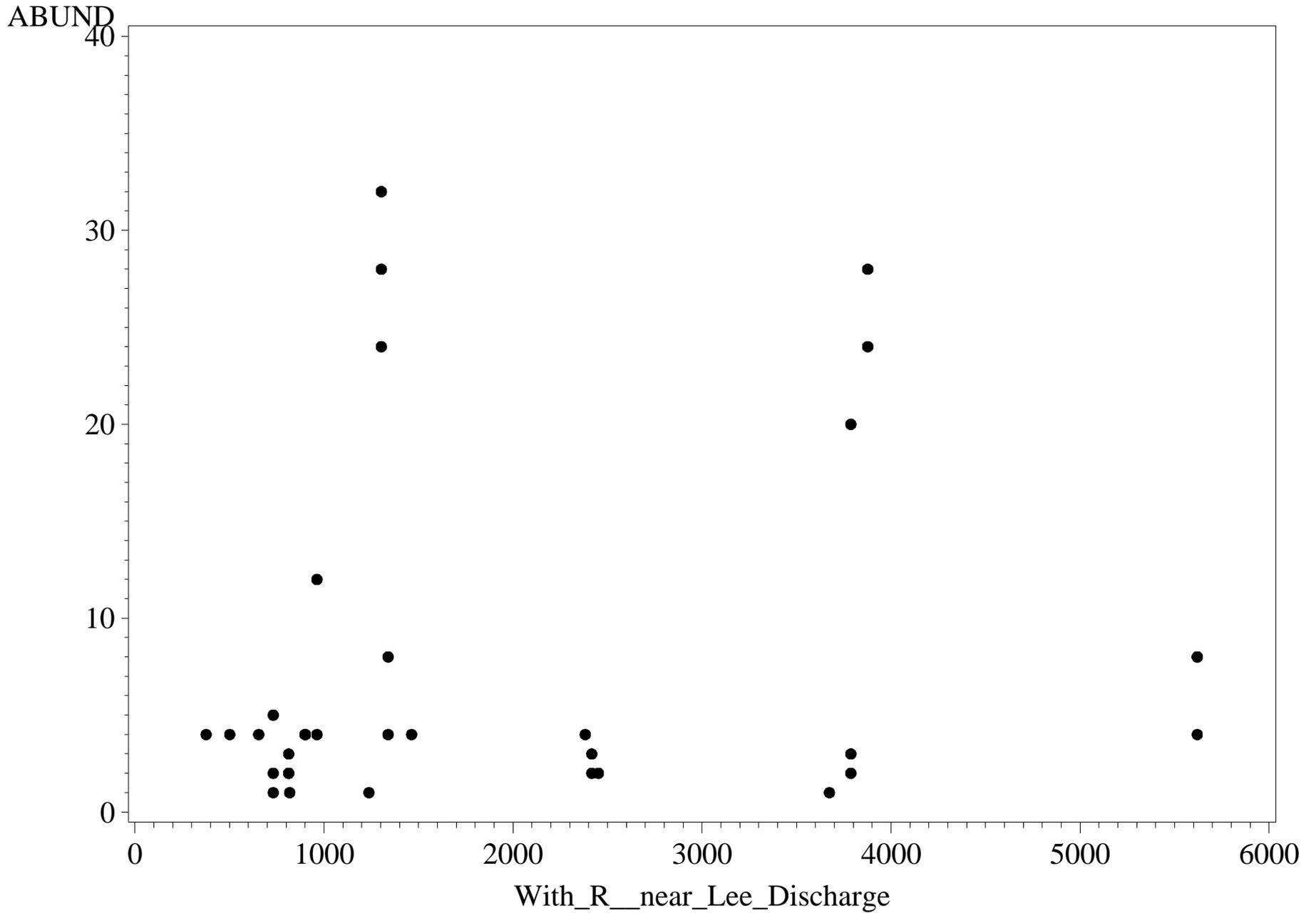
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family=Polycentropo



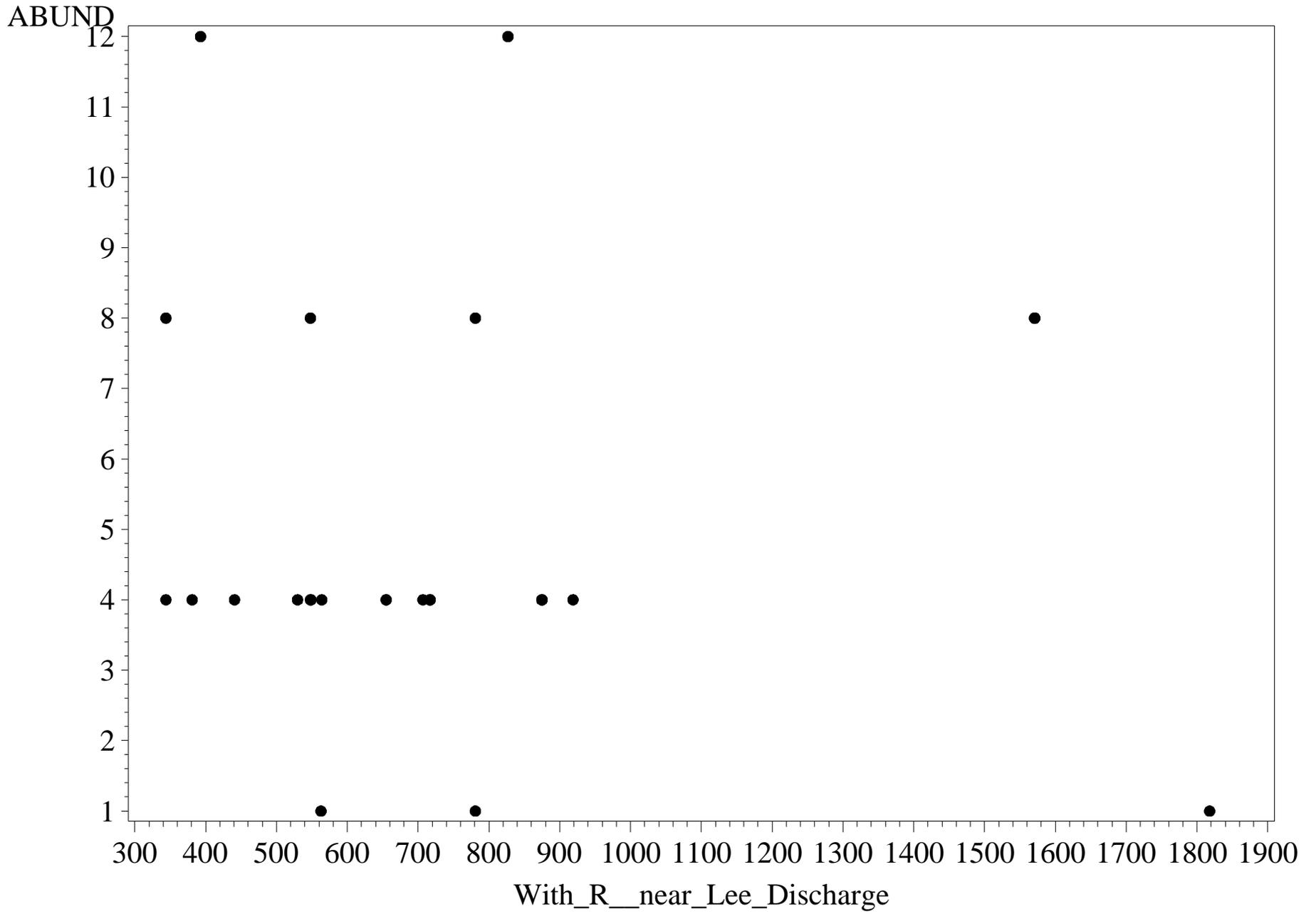
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family=Simuliidae



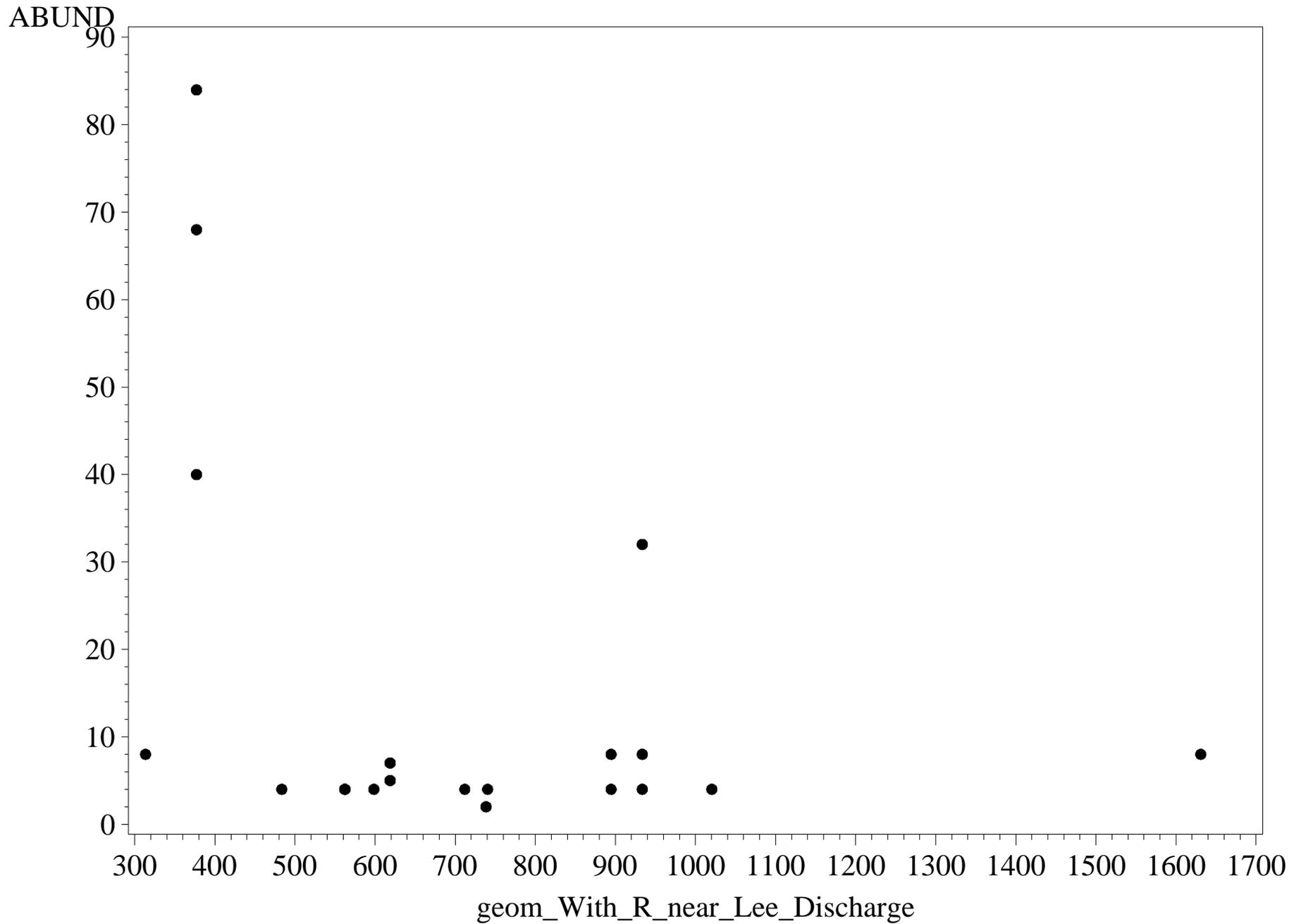
Taxonomic Family vs. Estimated Withlacoochee Flow (at Lee)
family=Taeniopteryg



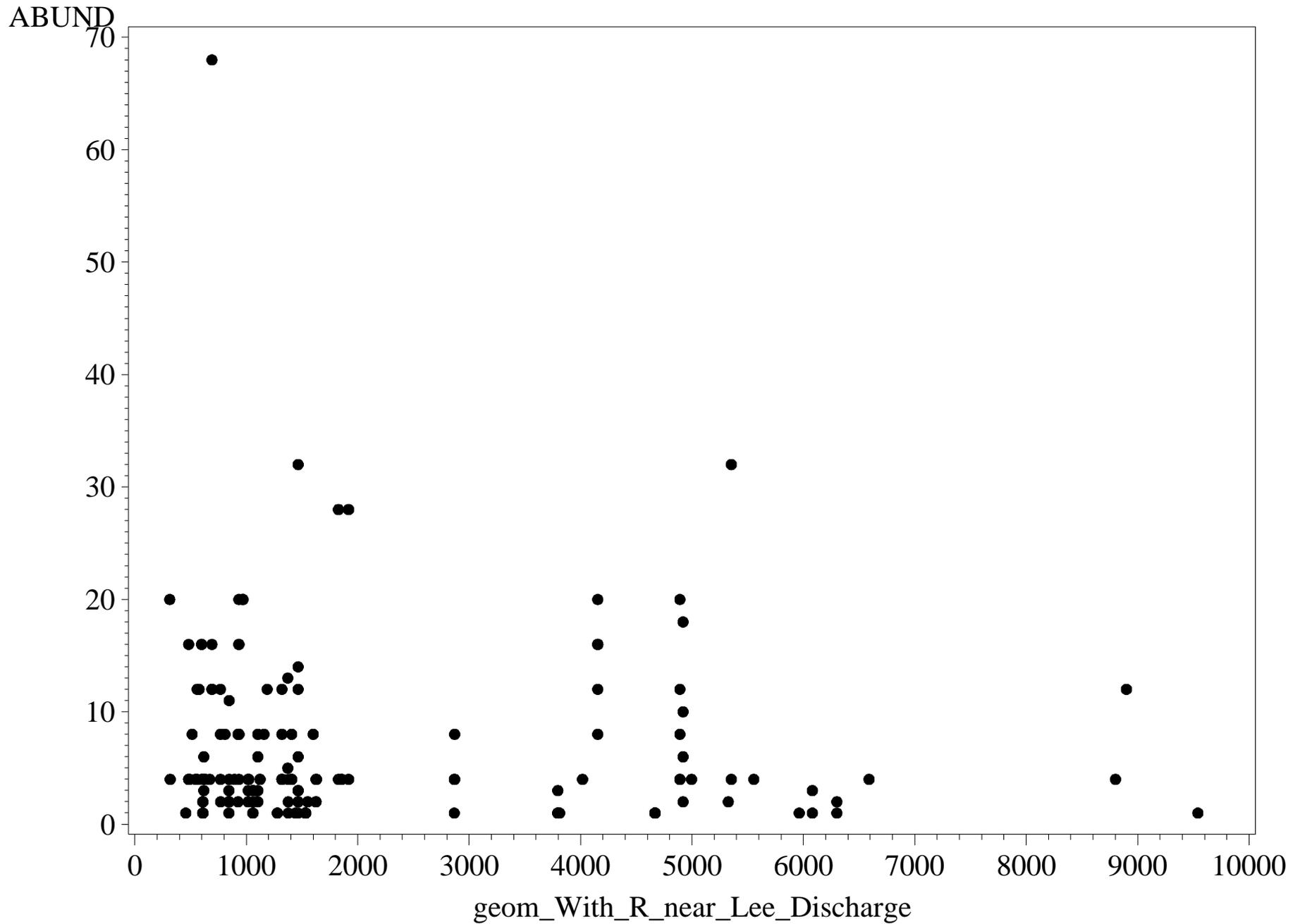
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family=Tetrastemmat



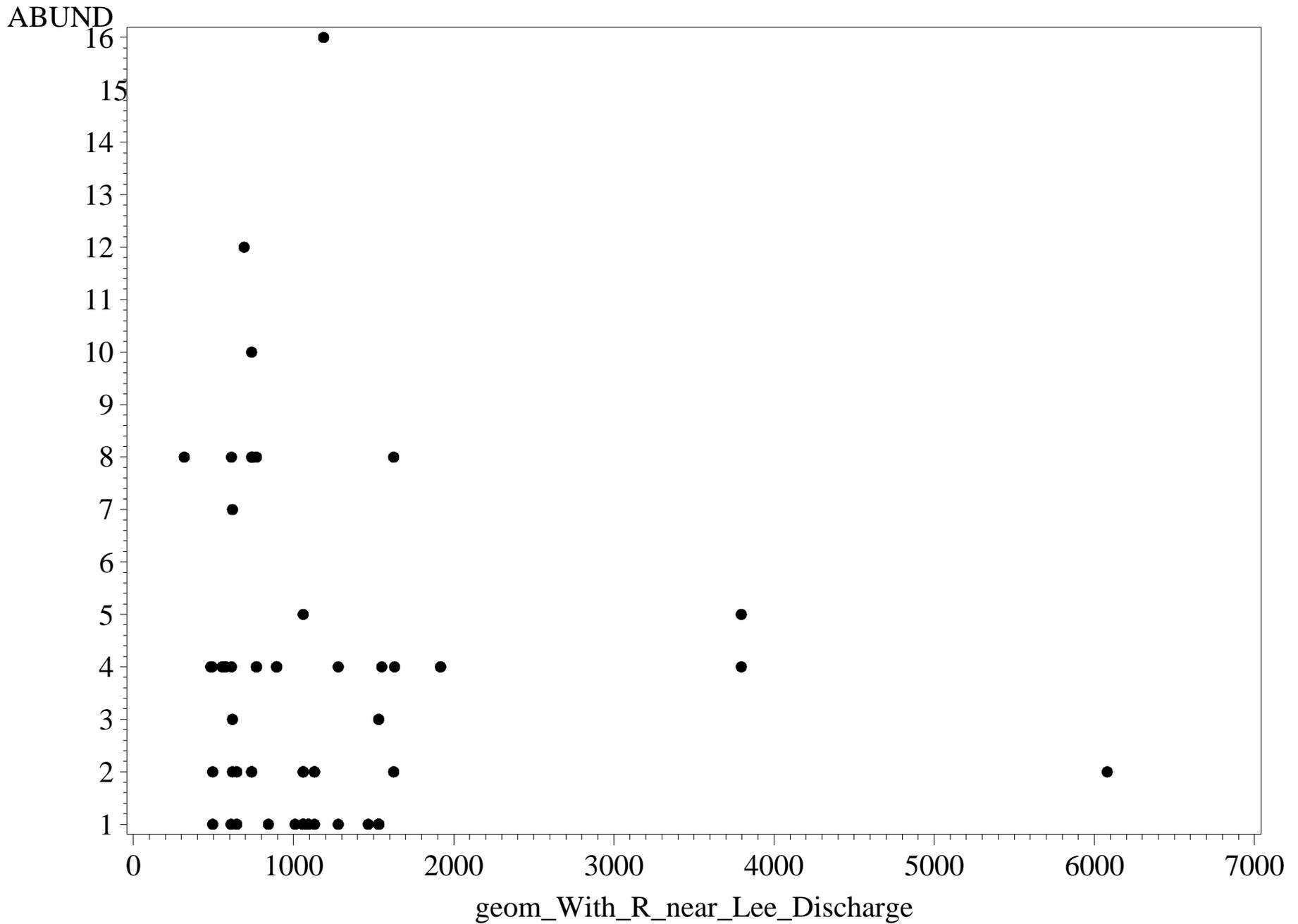
Taxonomic Family vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)
family=Aeolosomatid



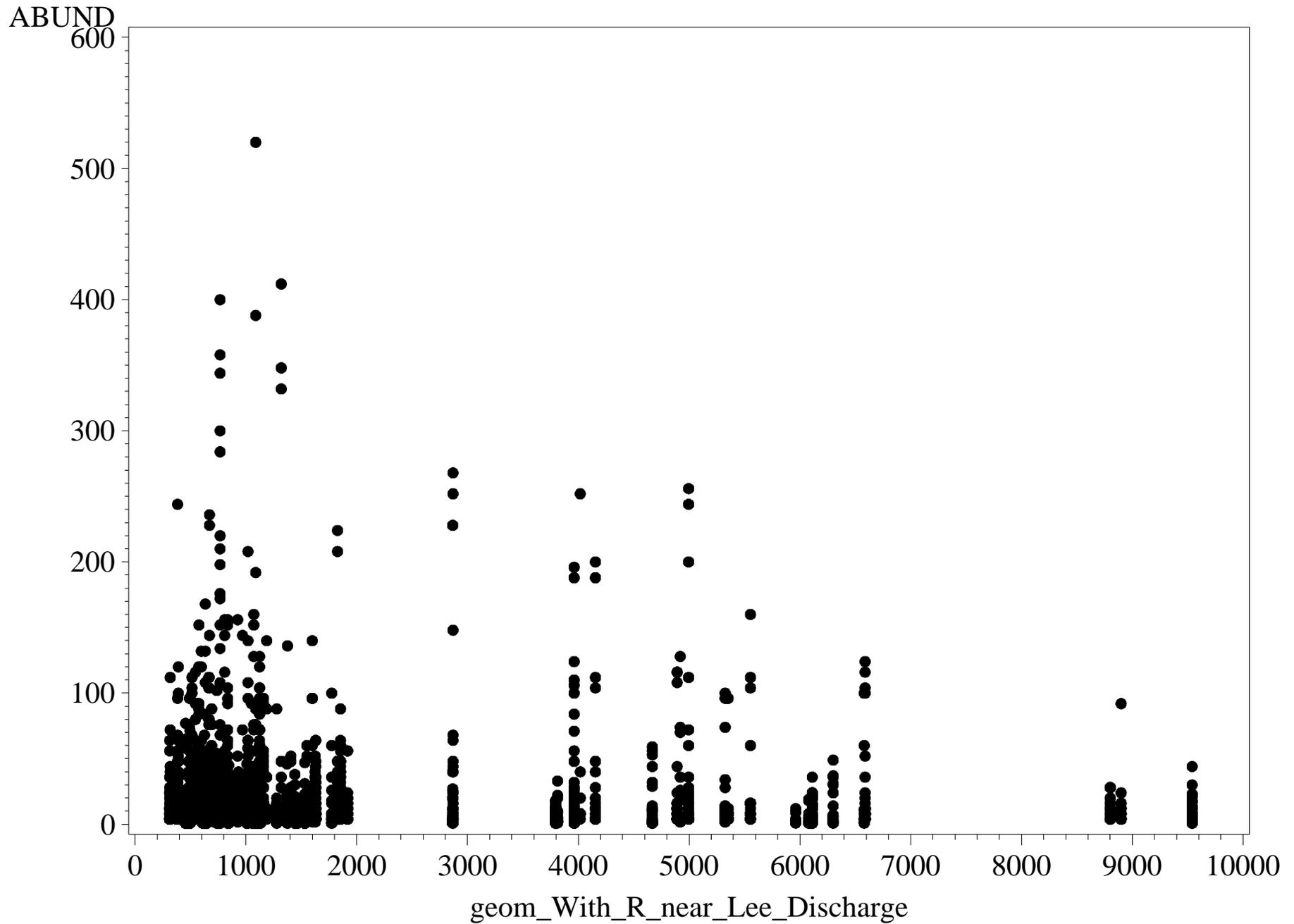
Taxonomic Family vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)
family=Baetidae



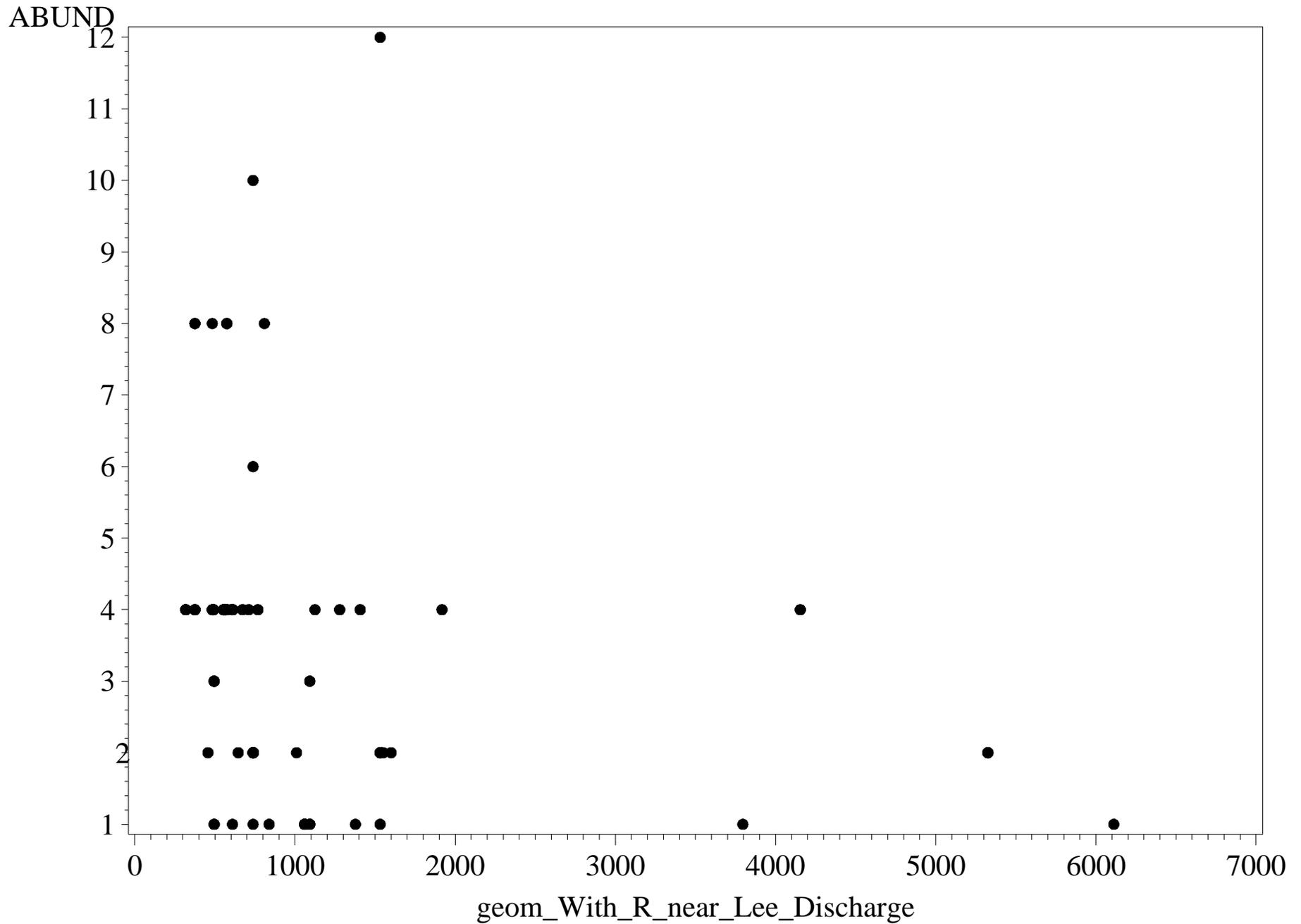
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family=Ceratopogoni



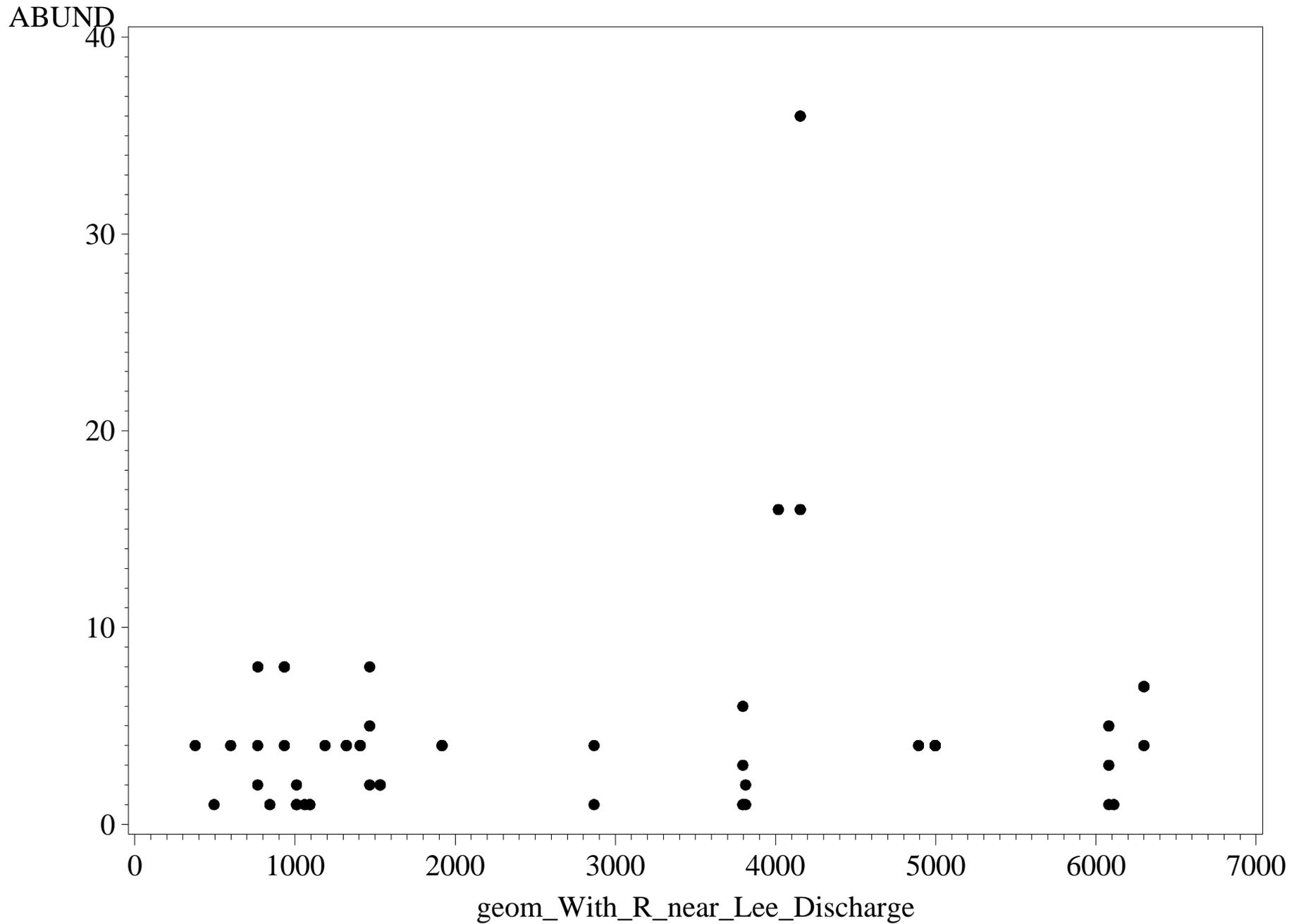
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family=Chironomidae



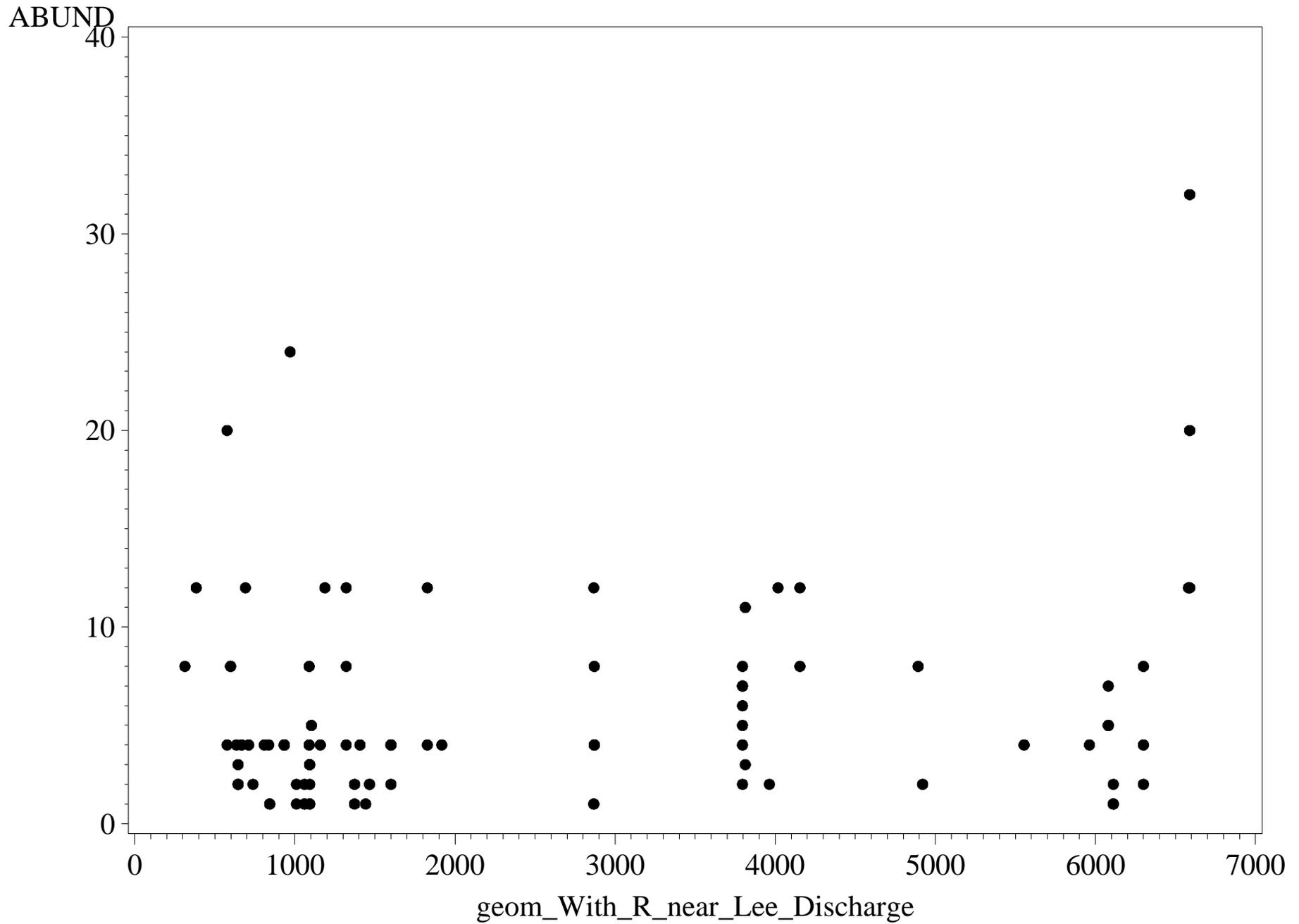
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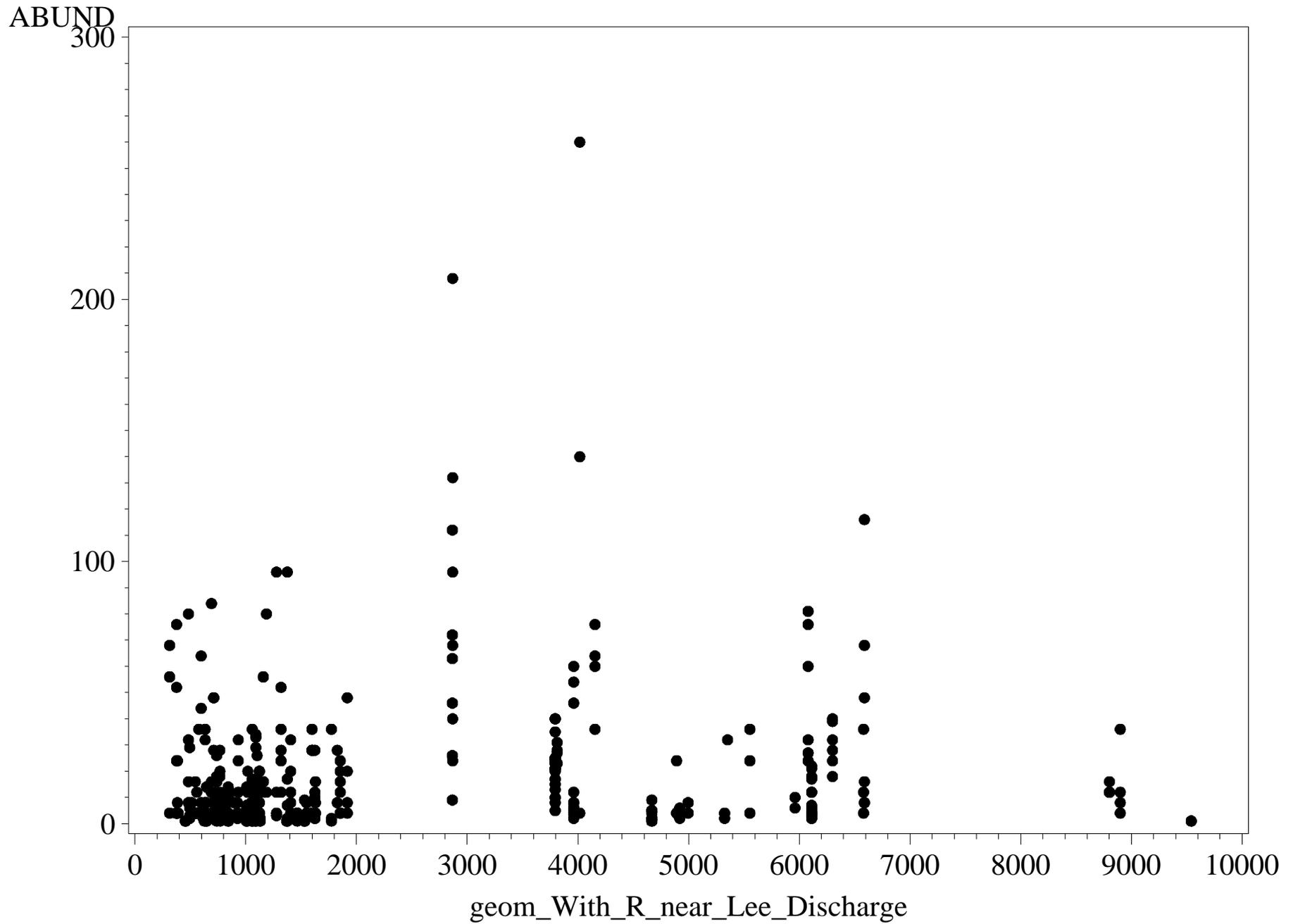
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family=Corydalidae



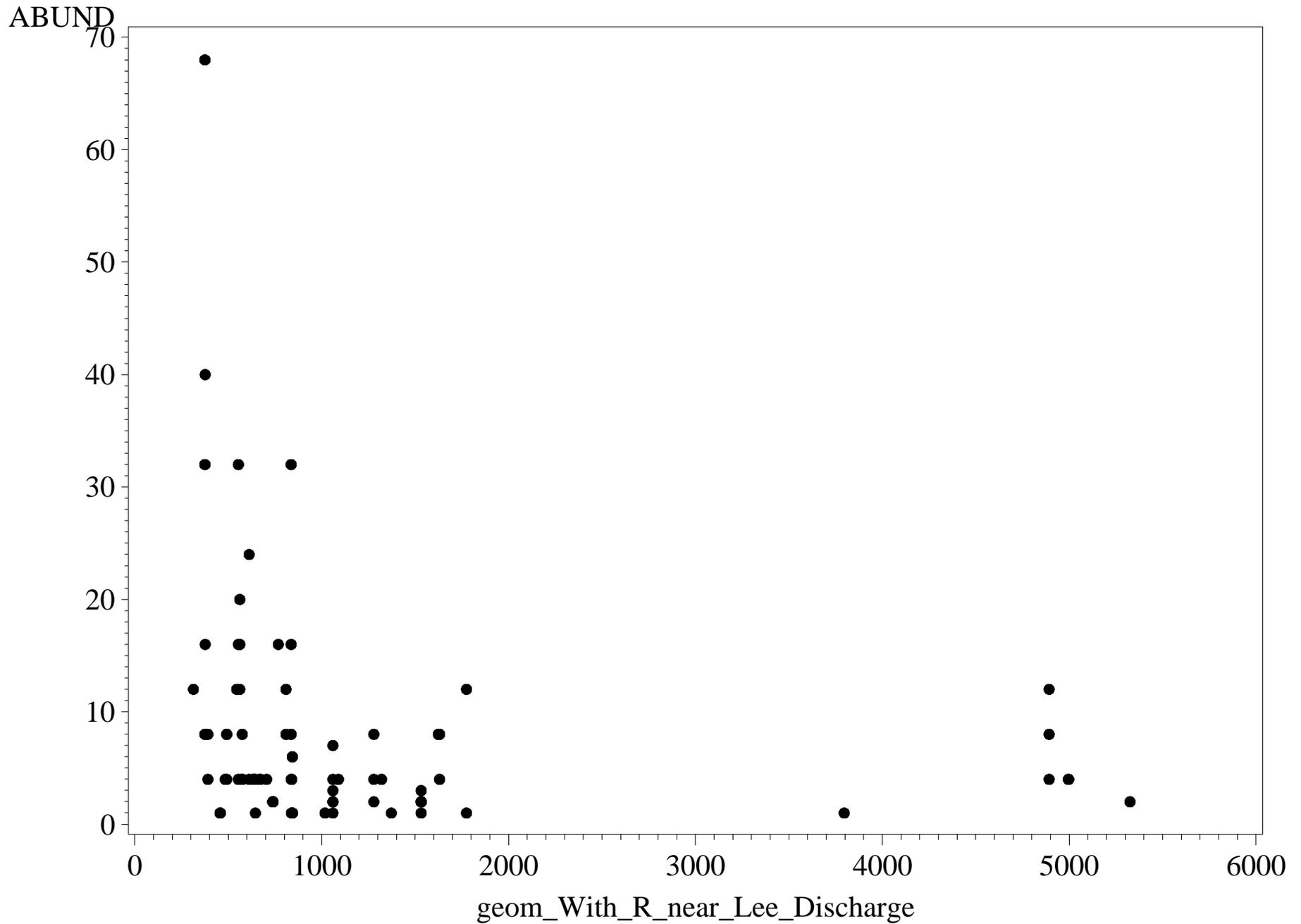
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family=Empididae



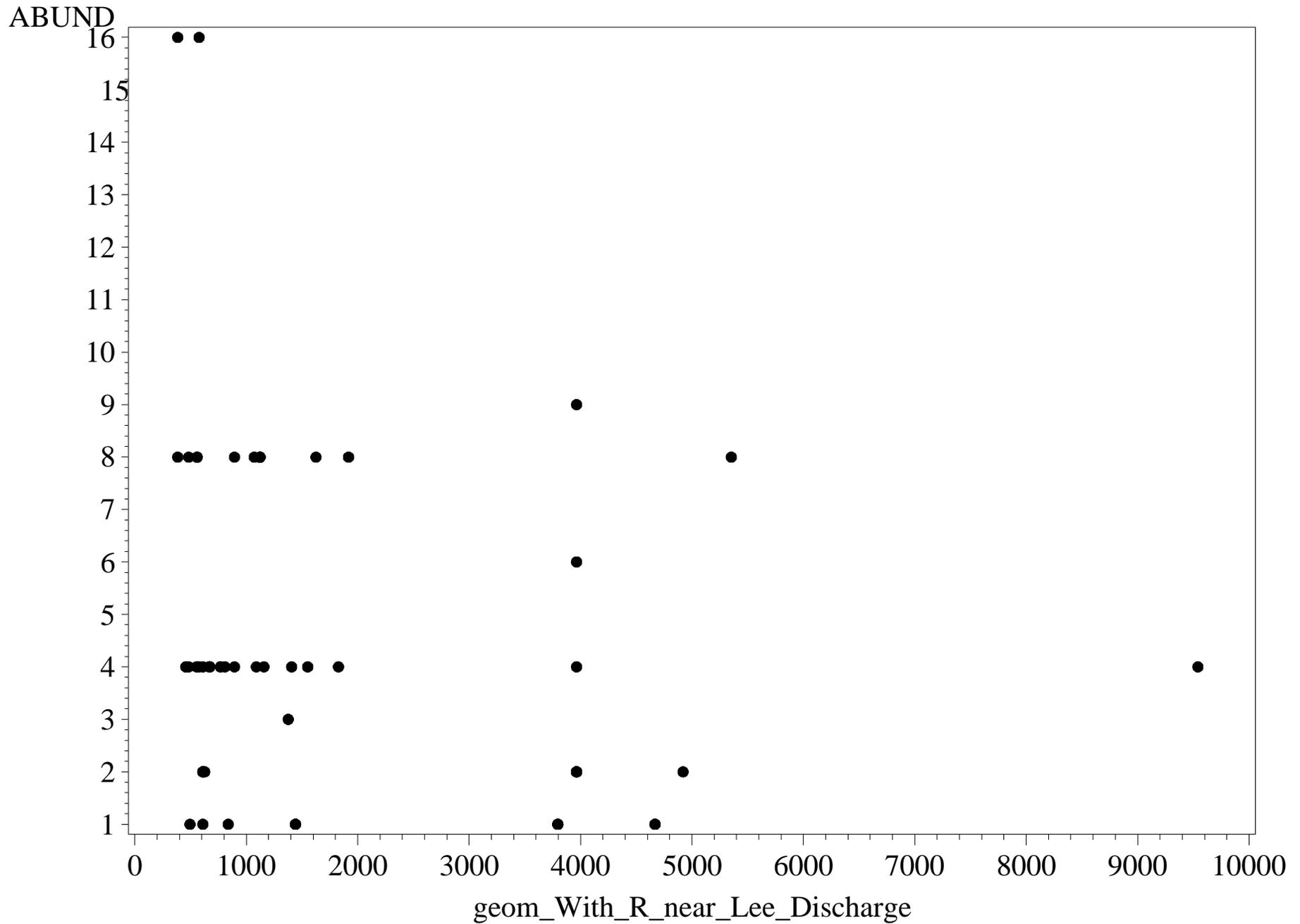
Taxonomic Family vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)
family=Heptageniida



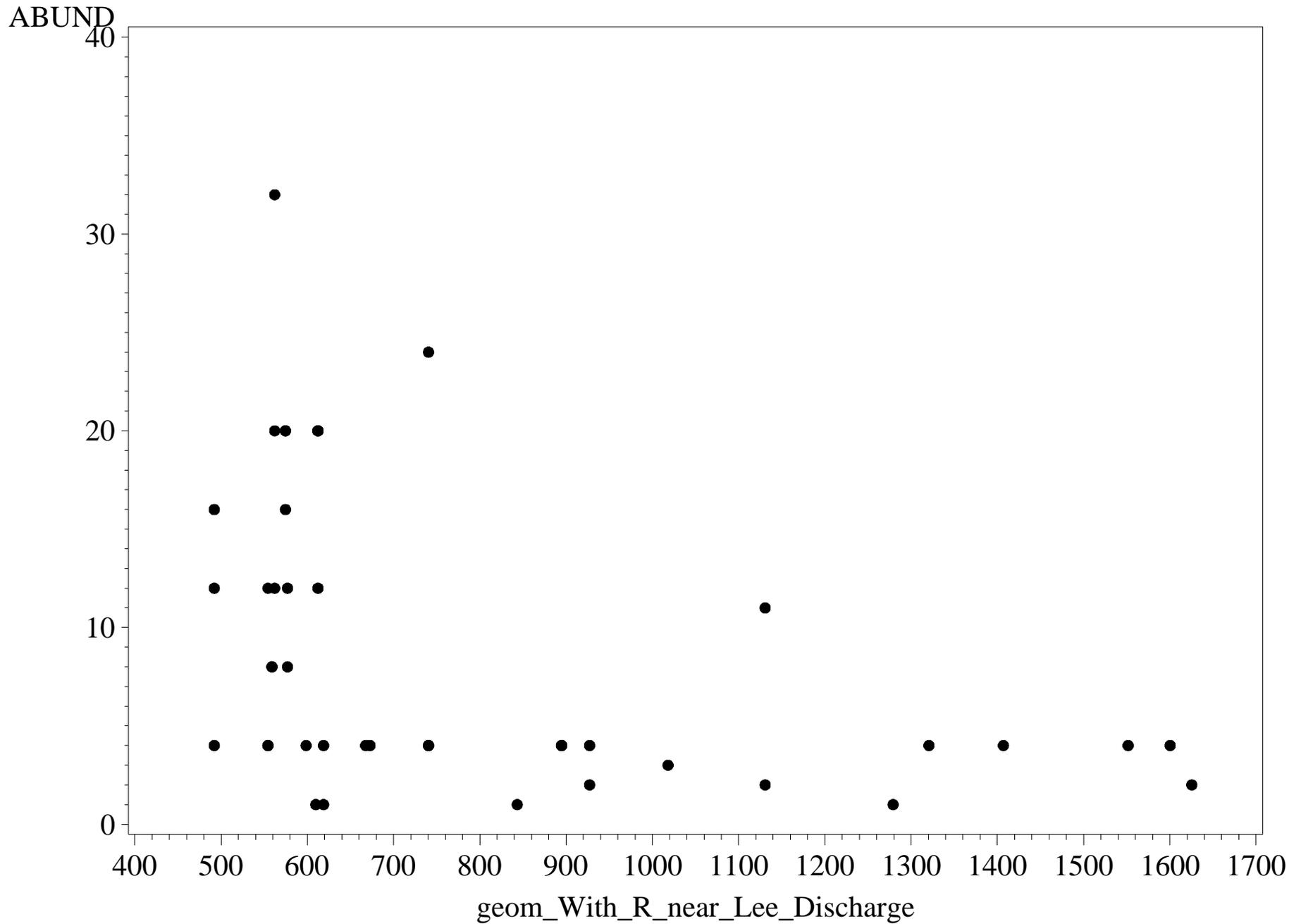
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family=Hyaletellidae



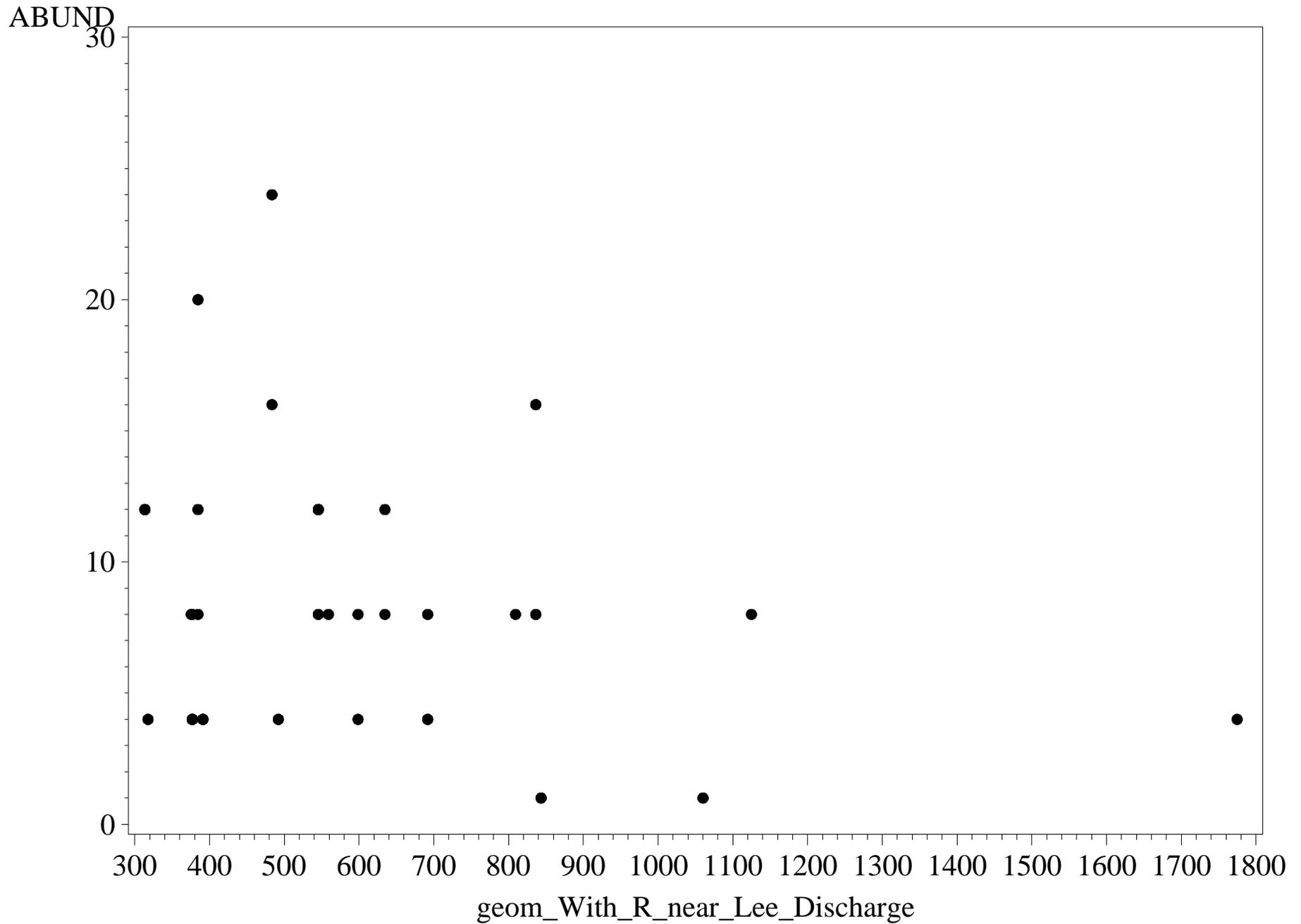
Taxonomic Family vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)
family=Hydridae



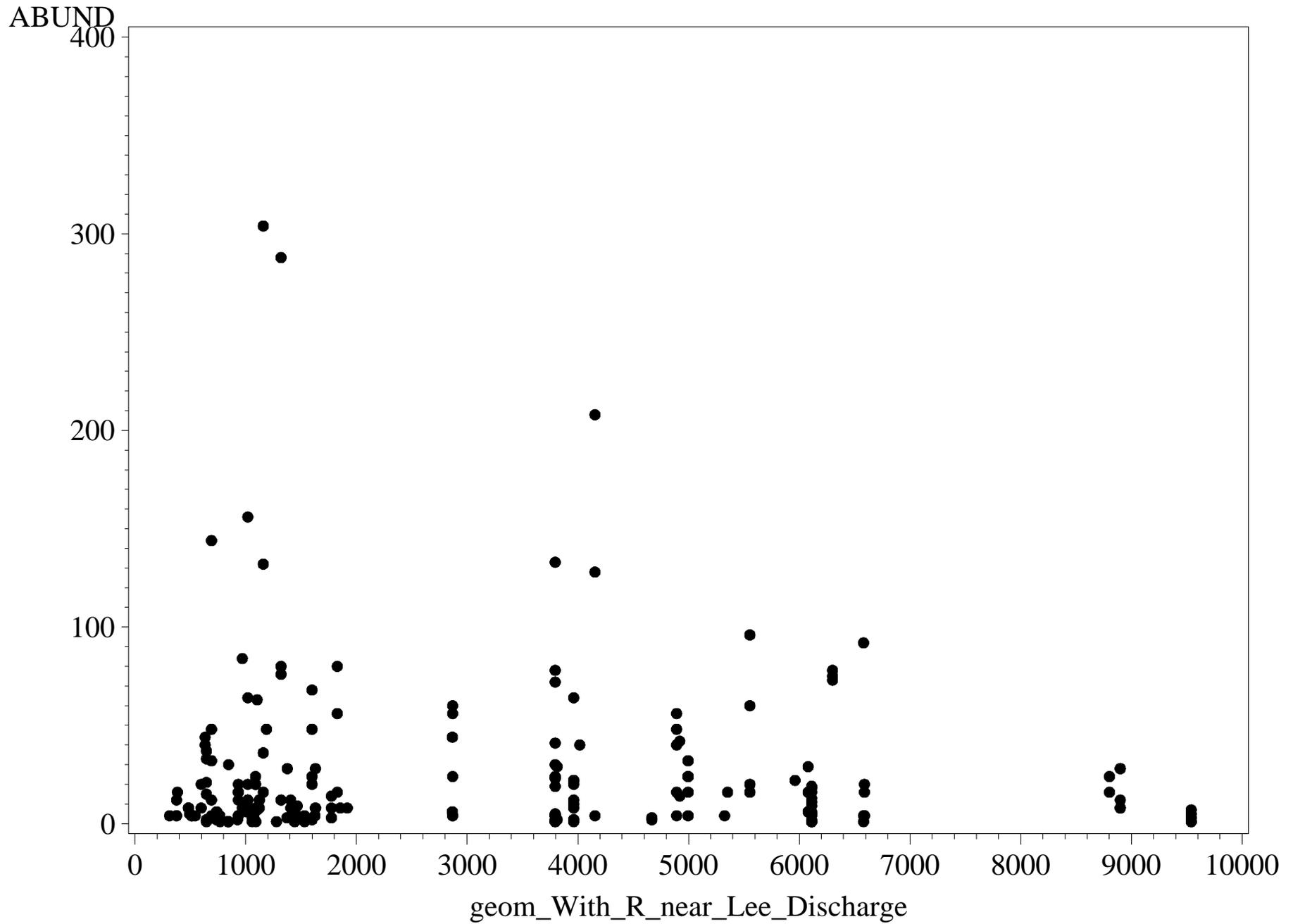
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family=Hydrobiidae



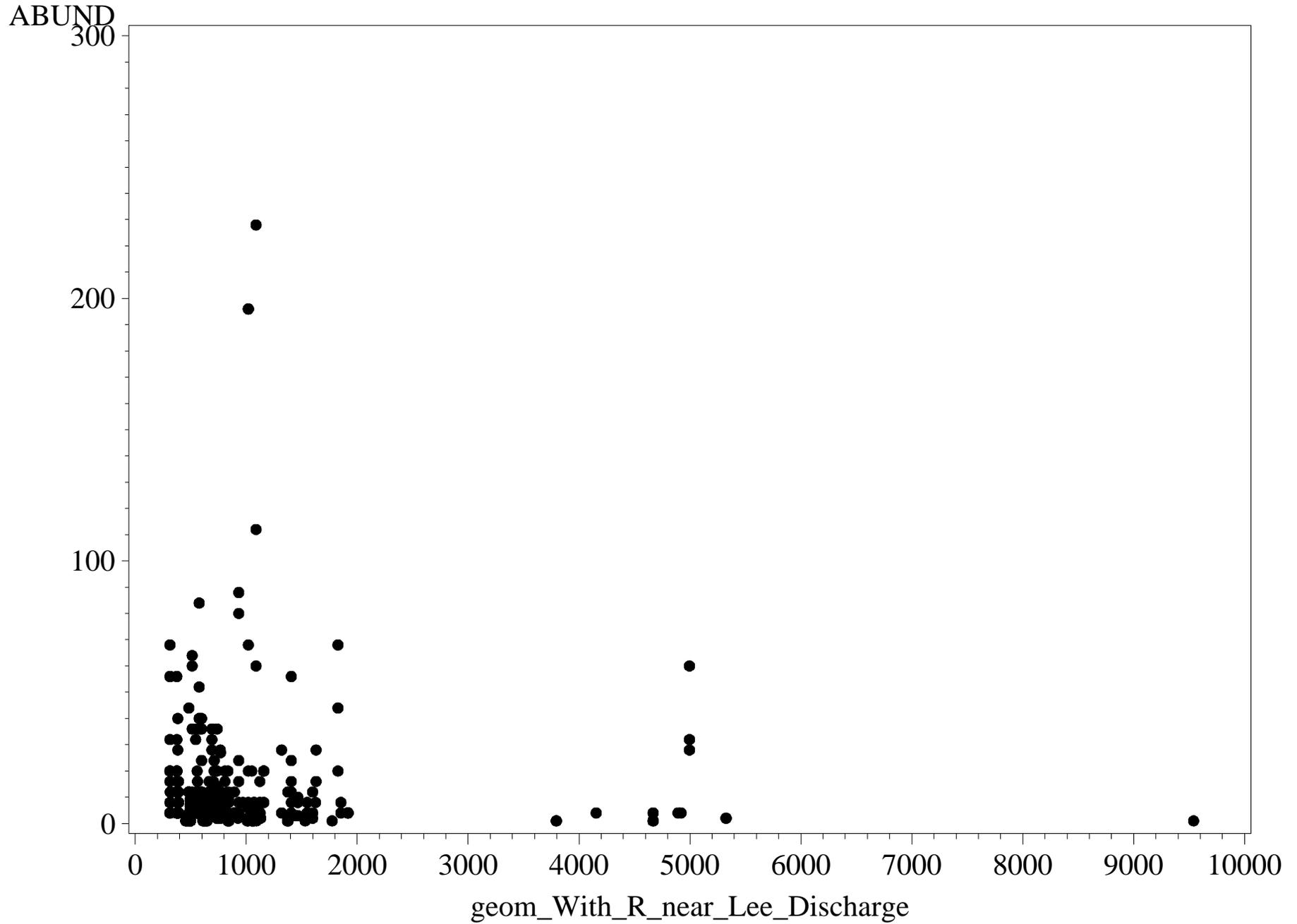
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family=Hydrodromida



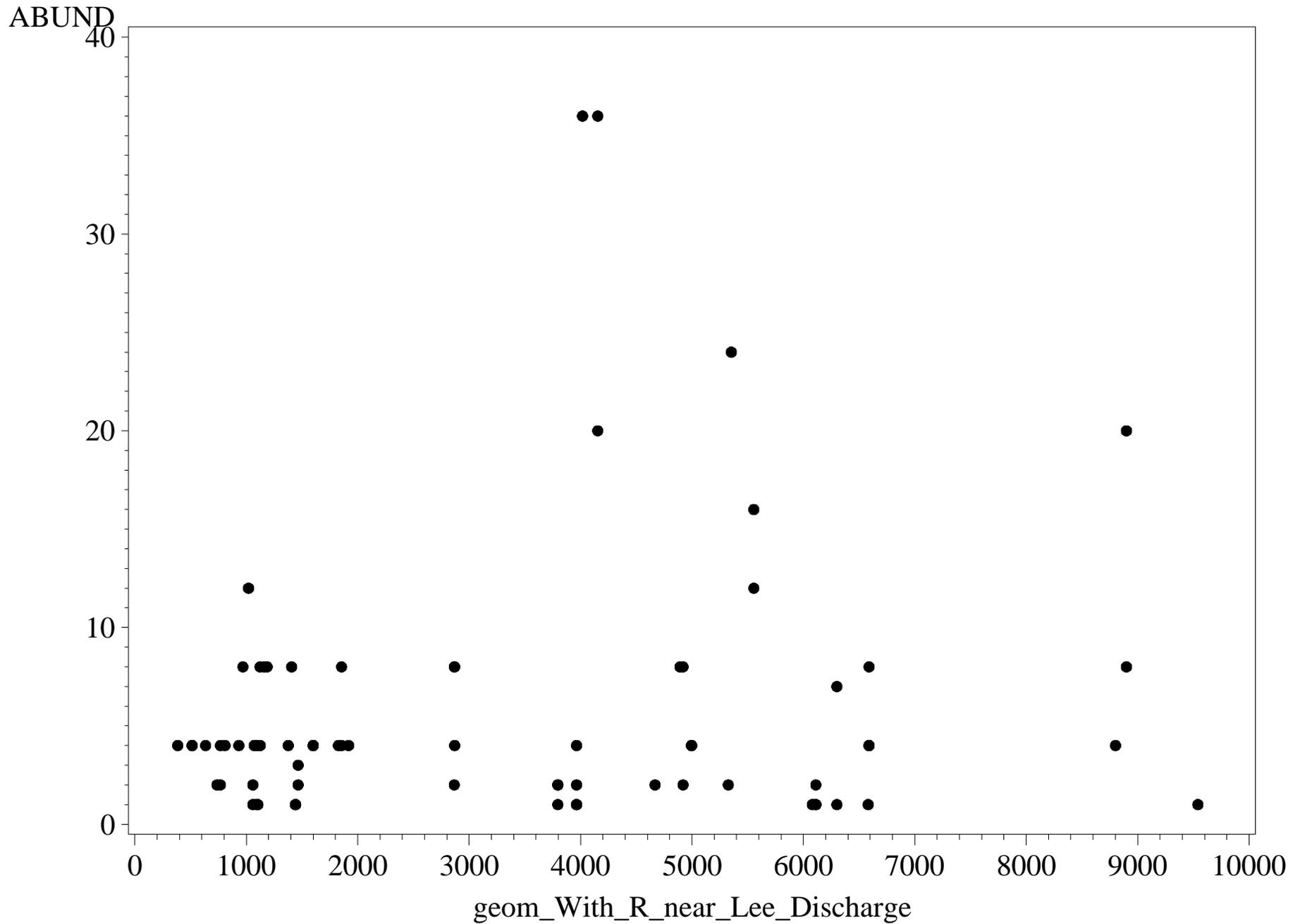
Taxonomic Family vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)
family=Hydropsychid



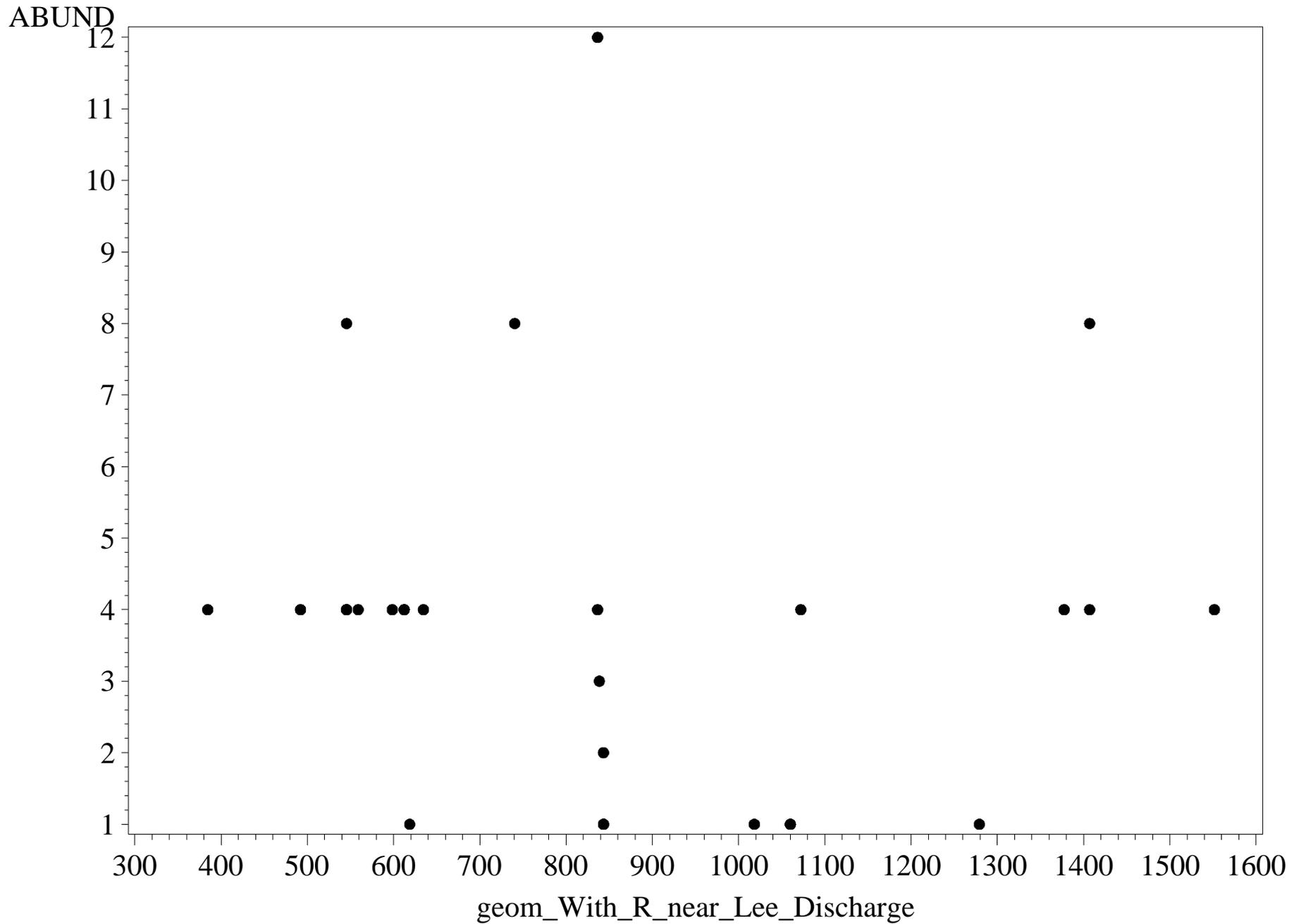
Taxonomic Family vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)
family=Hydroptilida



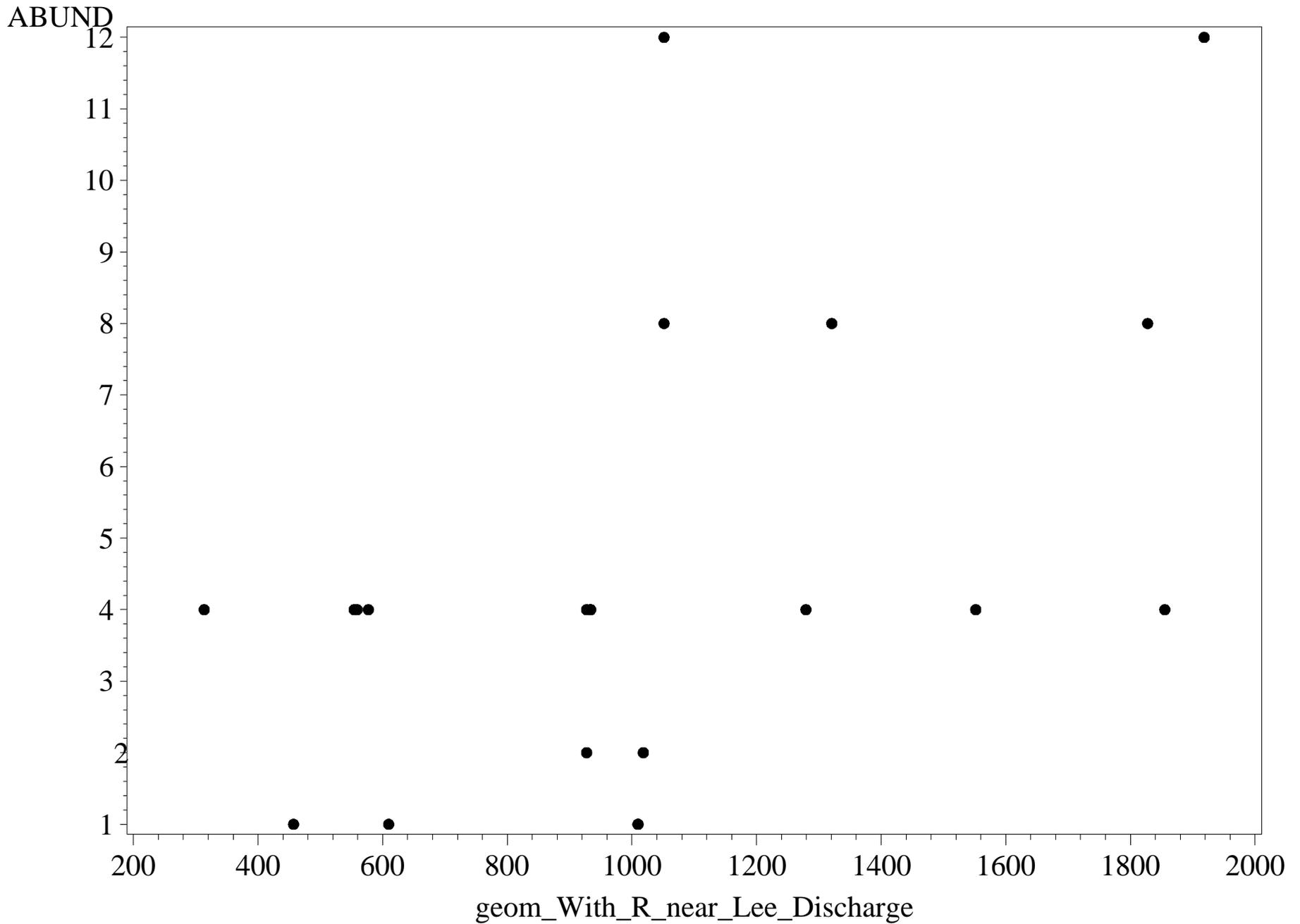
Taxonomic Family vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)
family=Isonychiidae



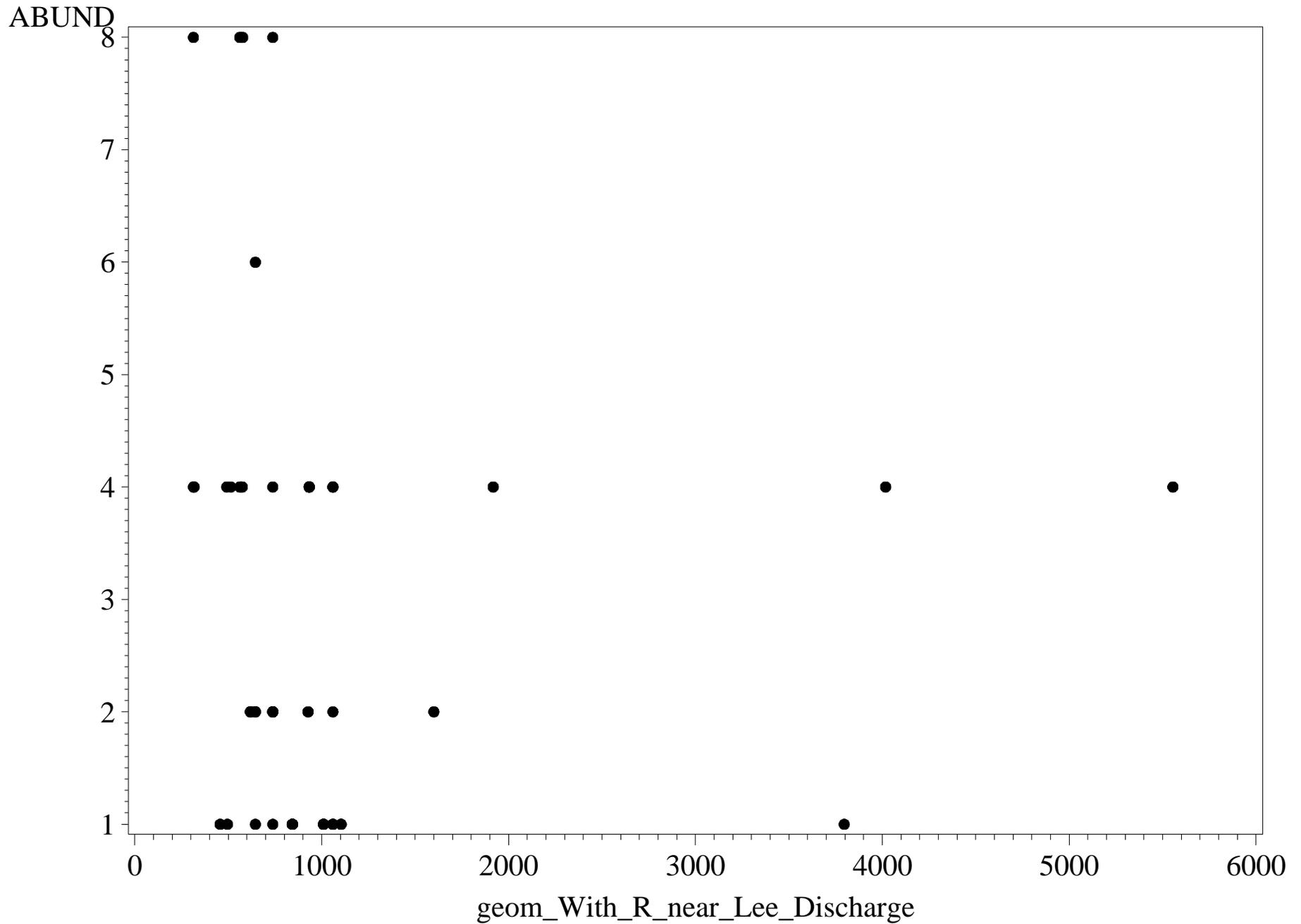
Taxonomic Family vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)
family=Isotomidae



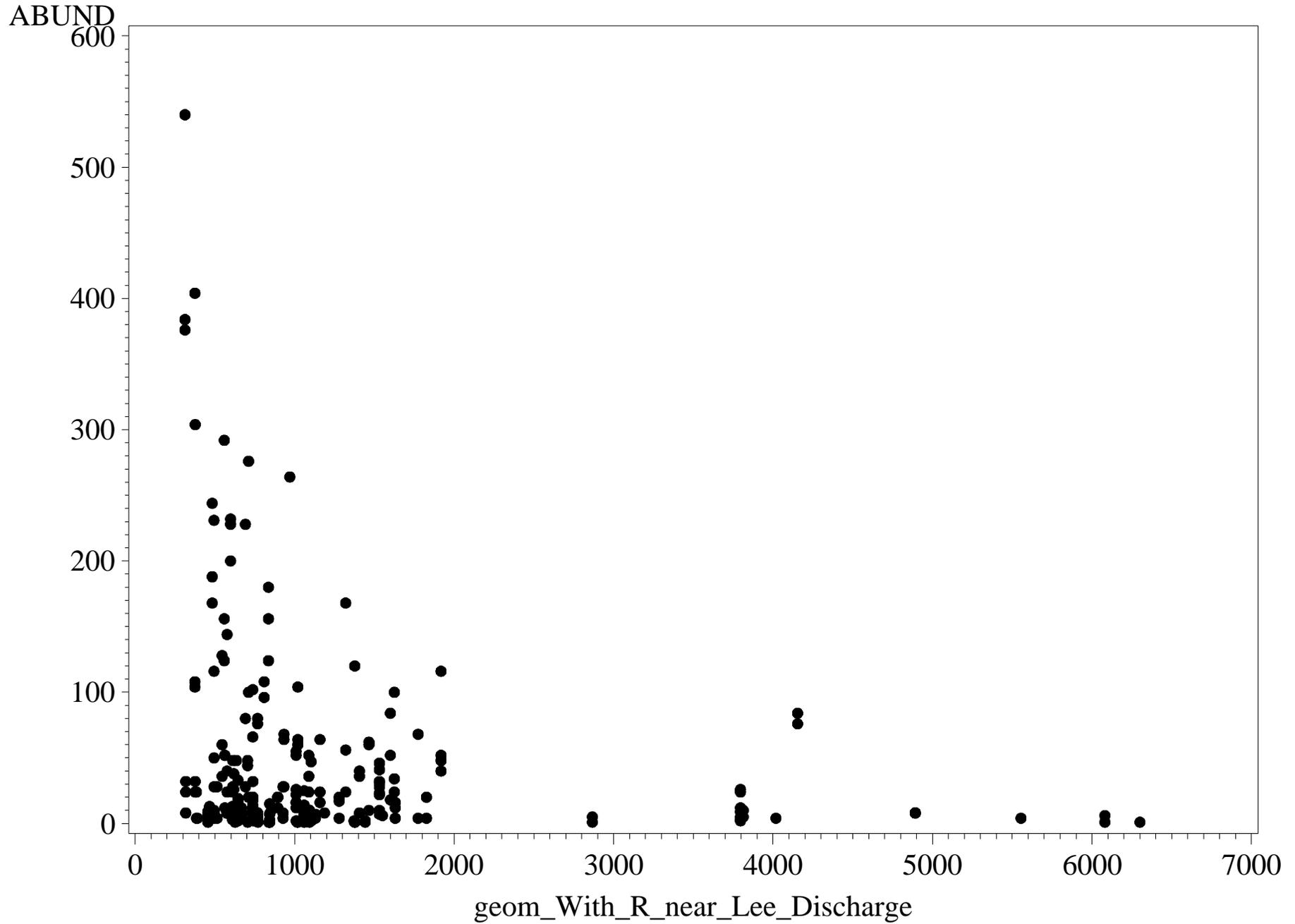
Taxonomic Family vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)
family=Lebertiidae



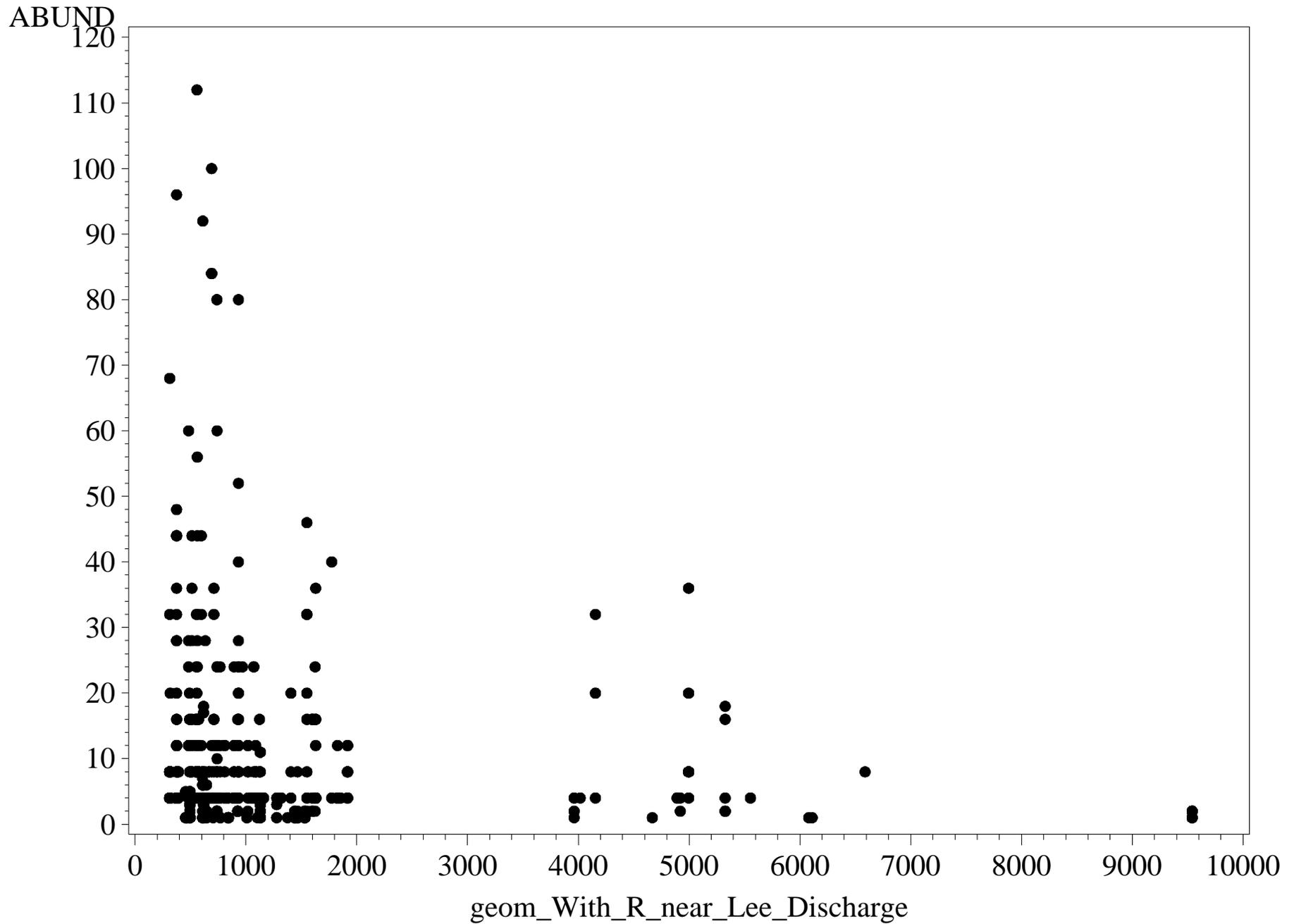
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family=Lectocerinae



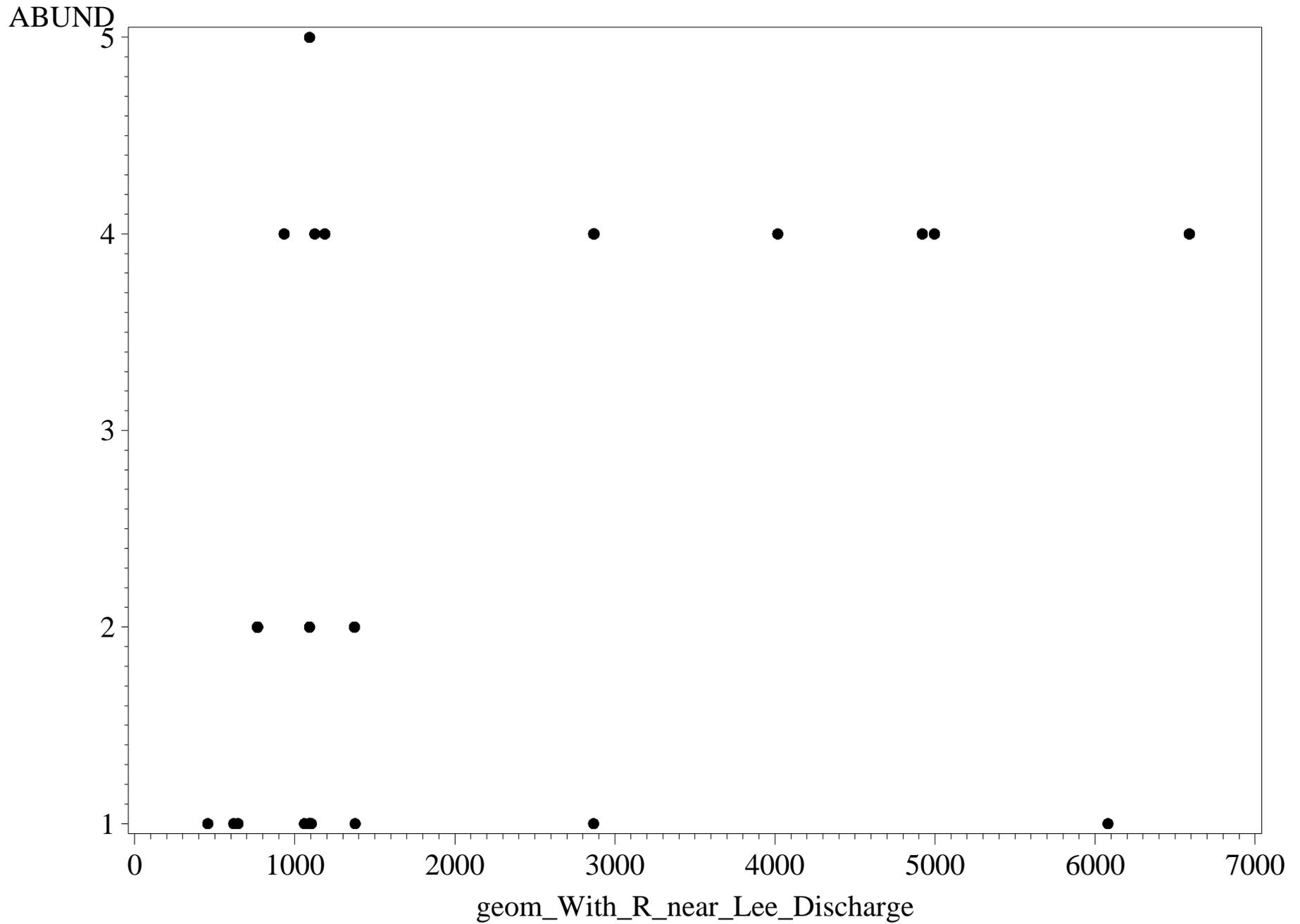
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family=Leptohyphida



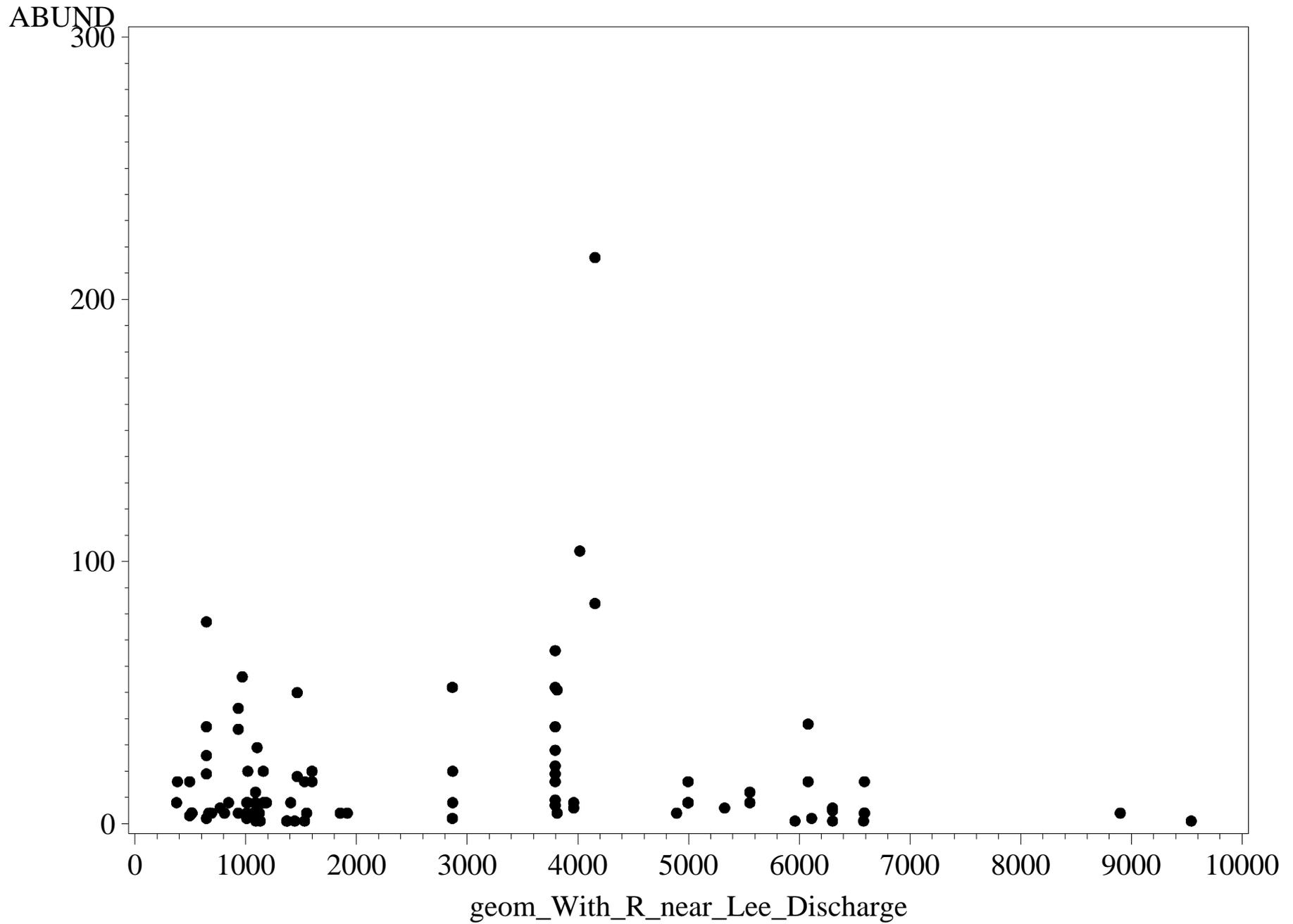
Taxonomic Family vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)
family=Naididae



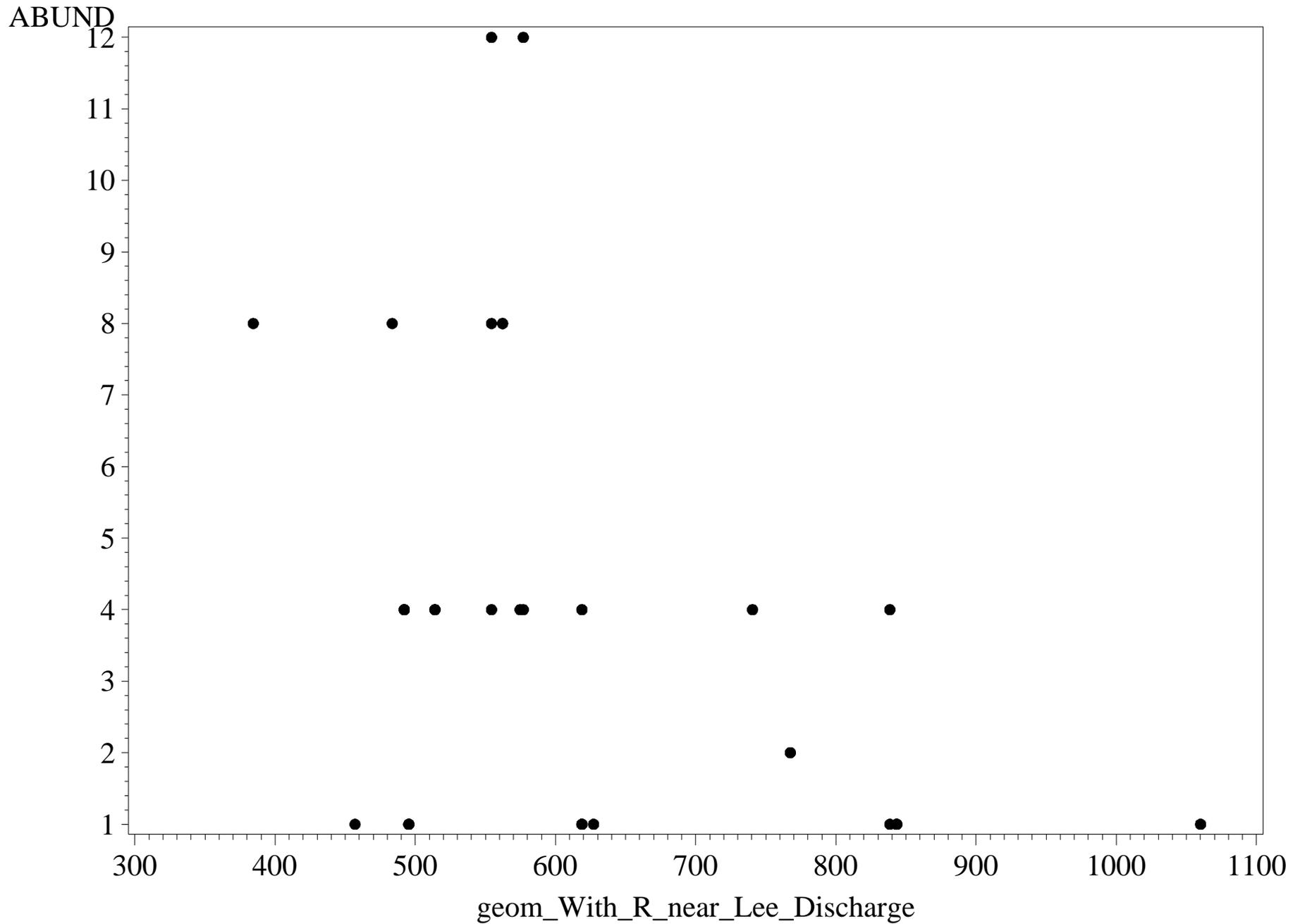
Taxonomic Family vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)
family=Perlidae



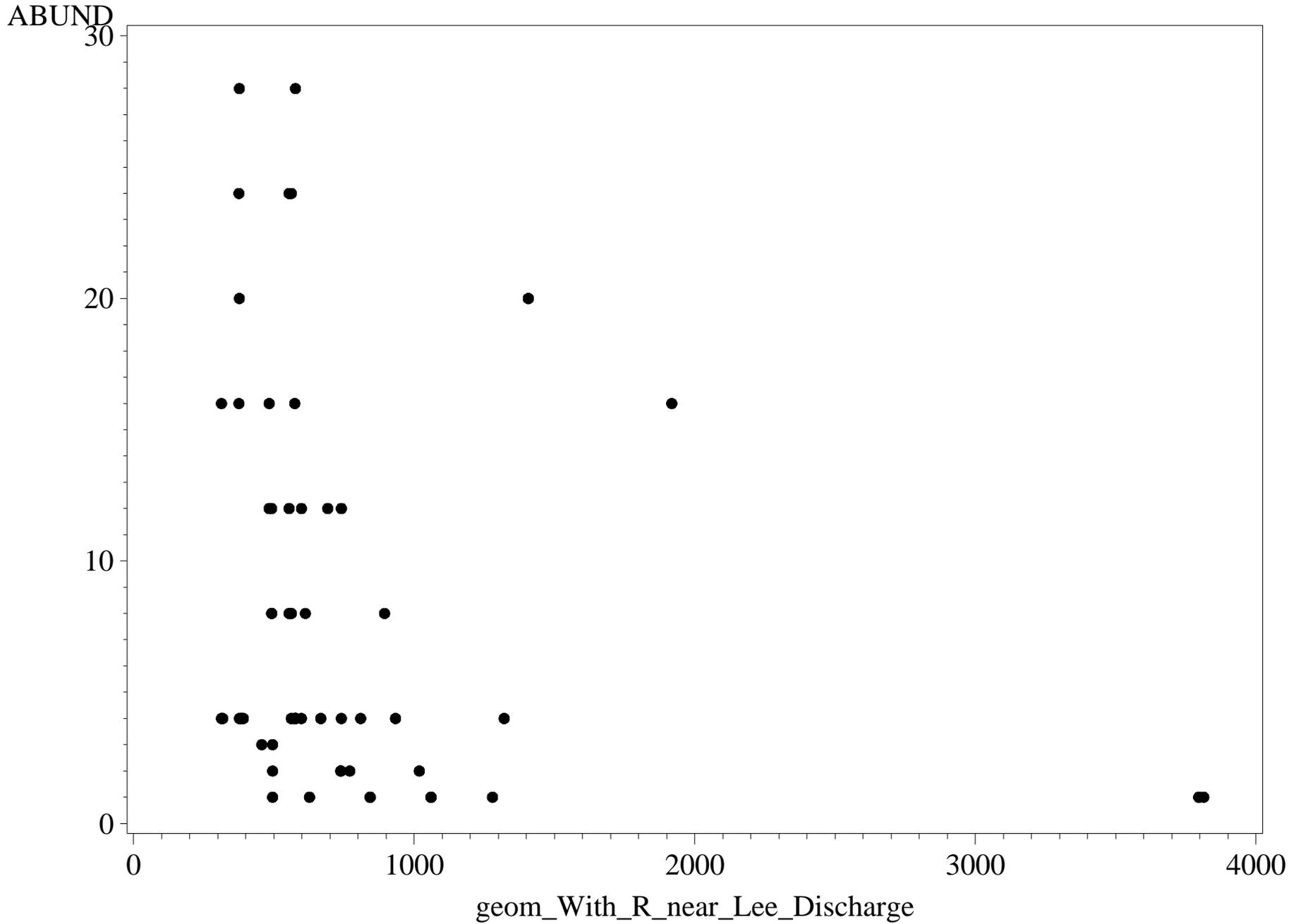
Taxonomic Family vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)
family=Philopotamid



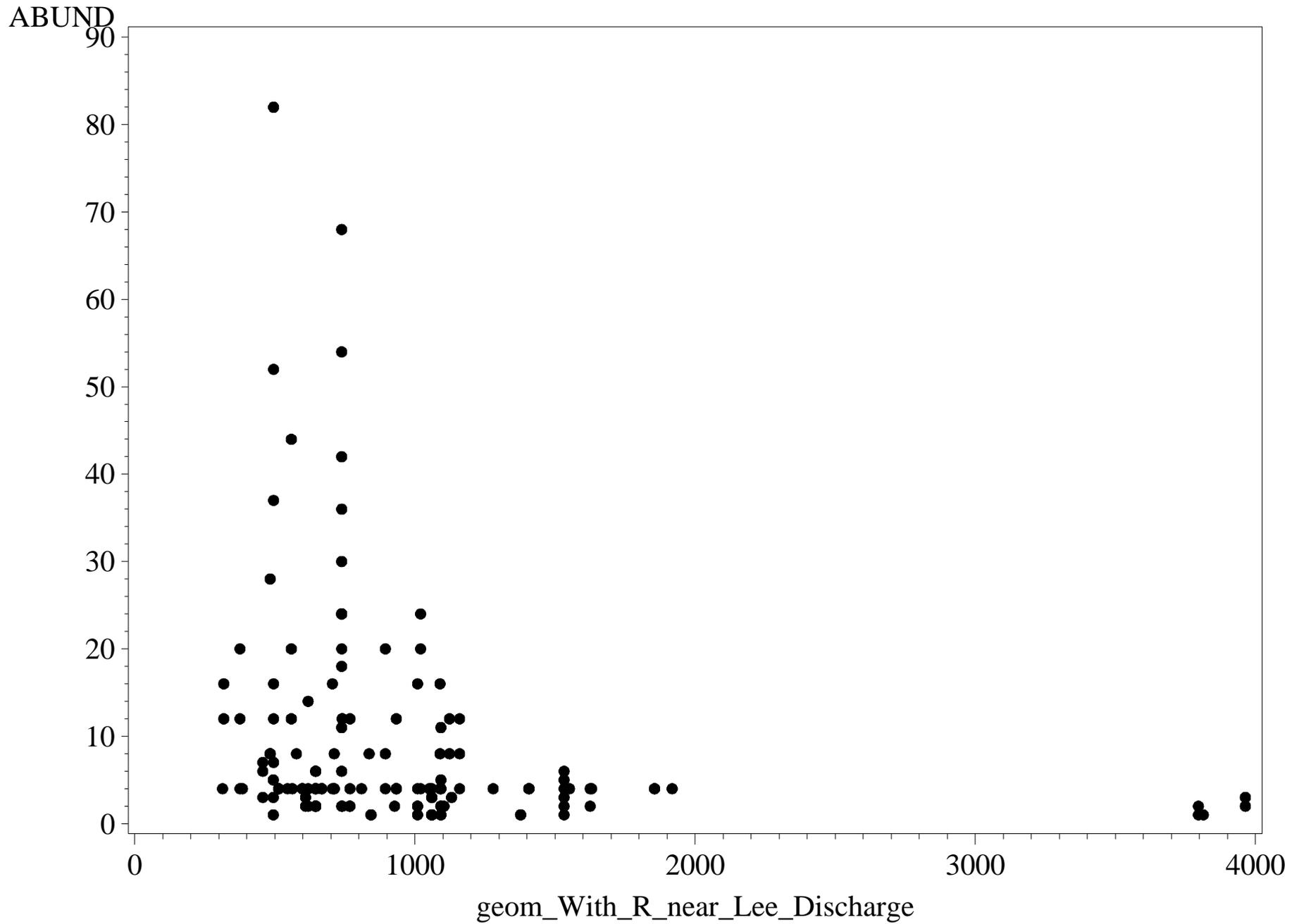
Taxonomic Family vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)
family=Physidae



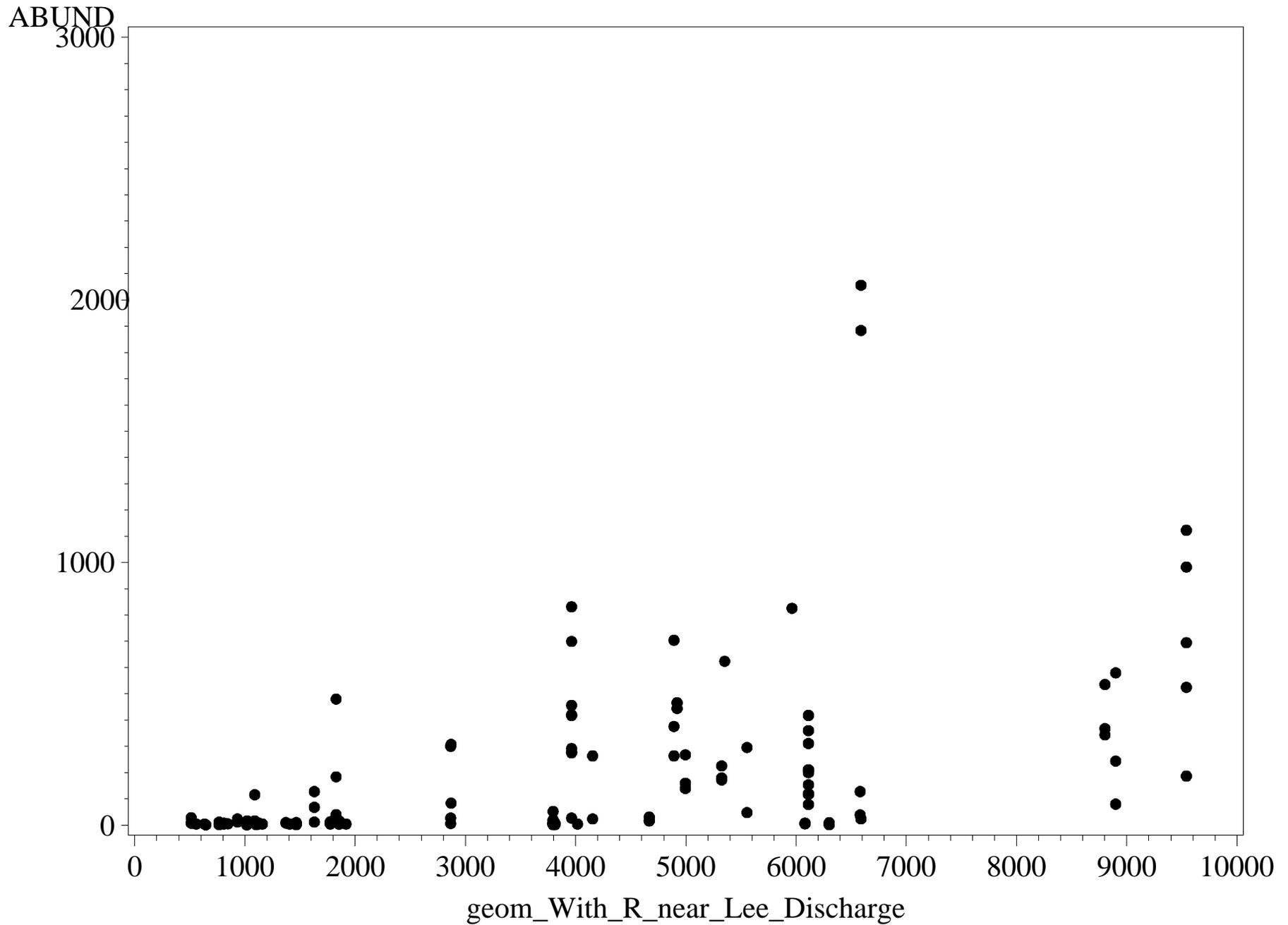
Taxonomic Family vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)
family=Planariidae



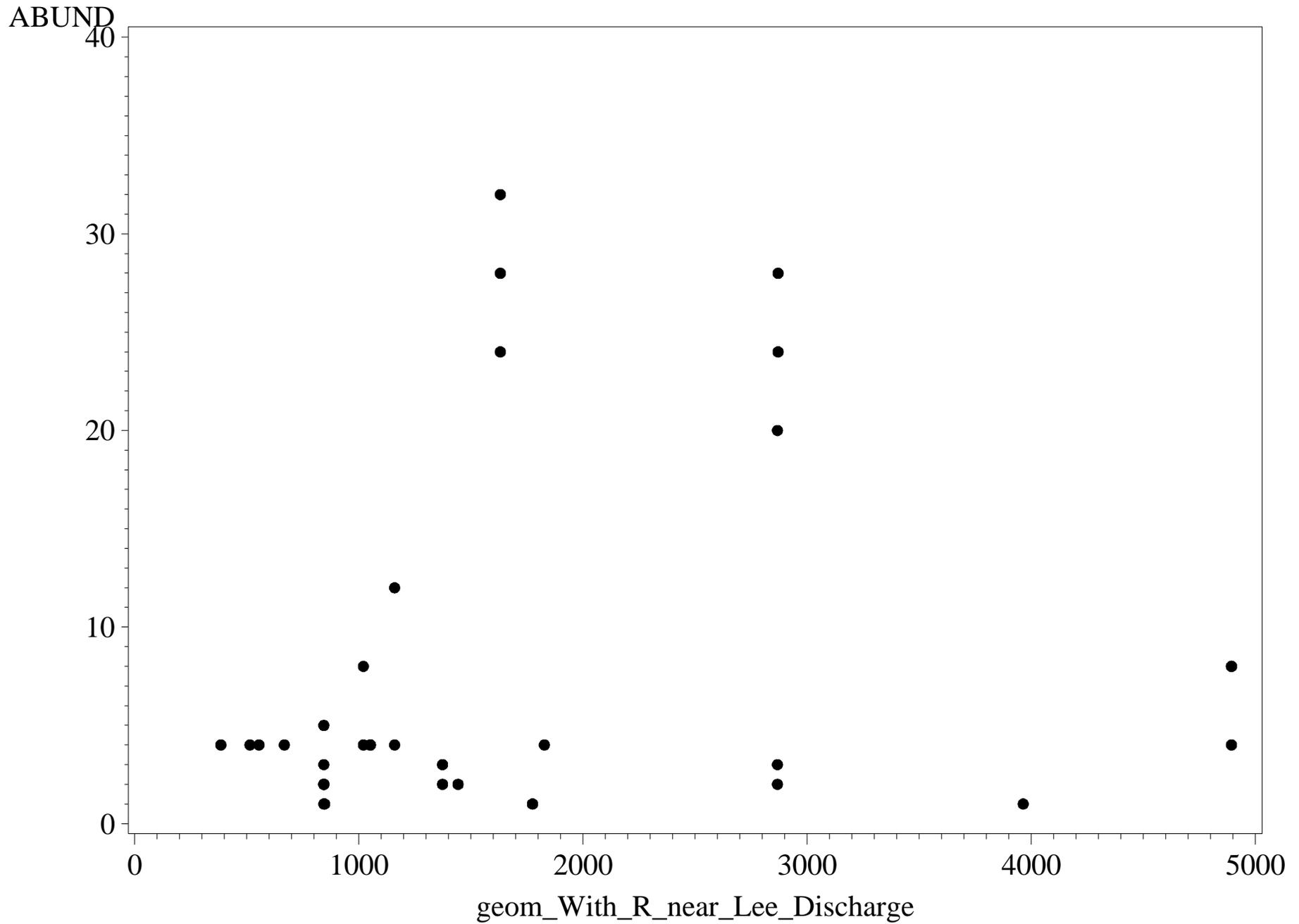
Taxonomic Family vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)
family=Polycentropo



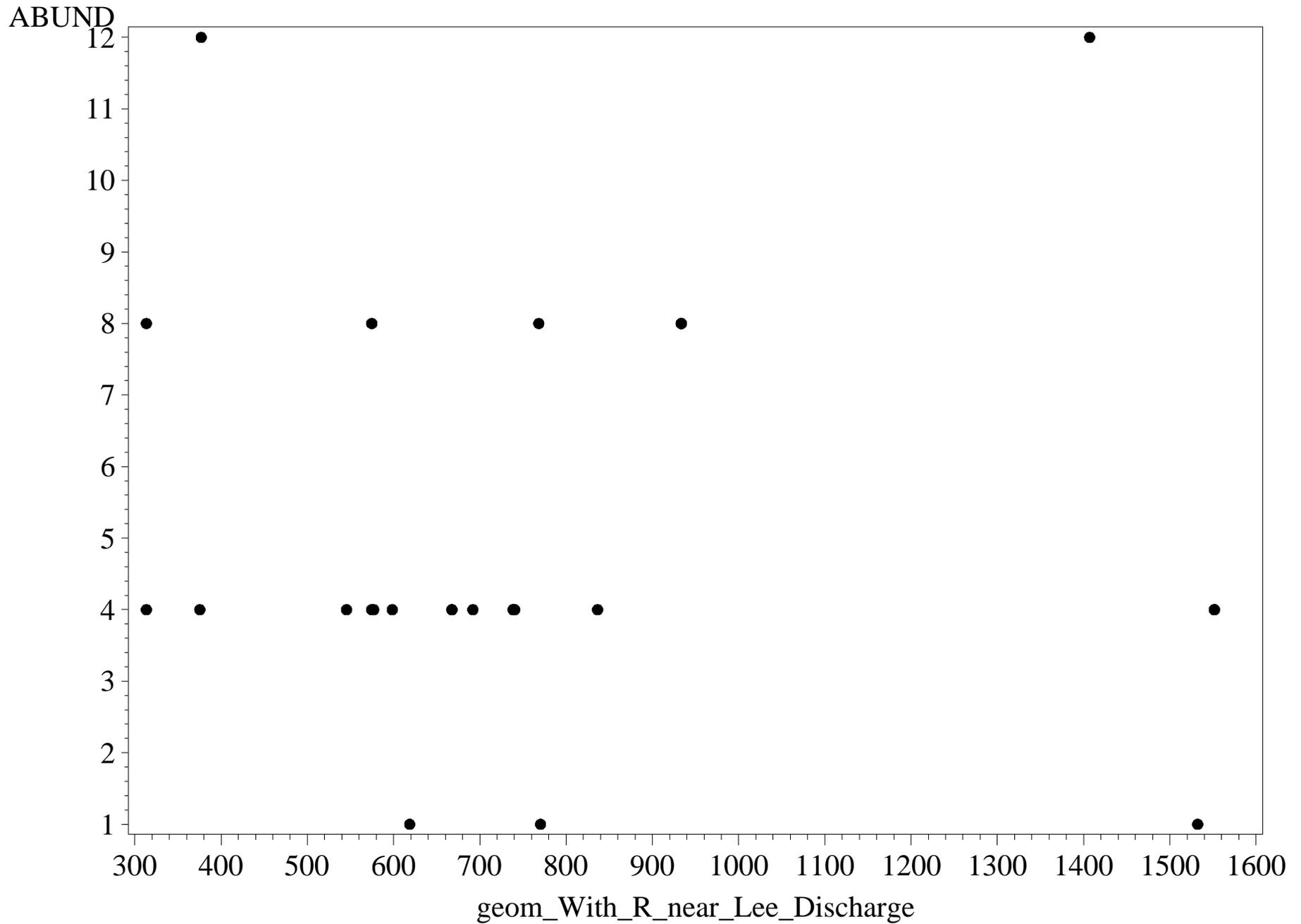
Taxonomic Family vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)
family=Simuliidae



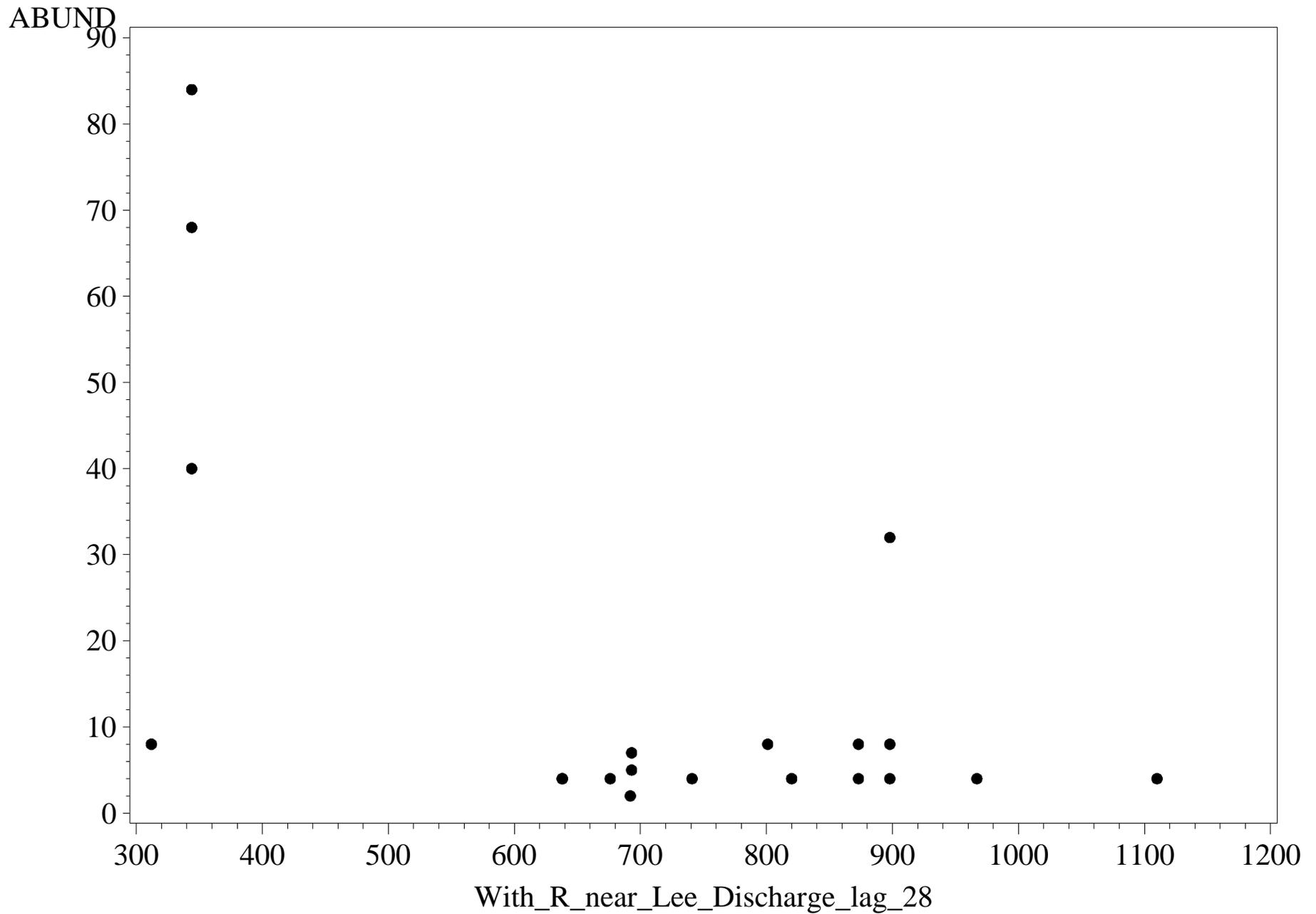
Taxonomic Family vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)
family=Taeniopteryg



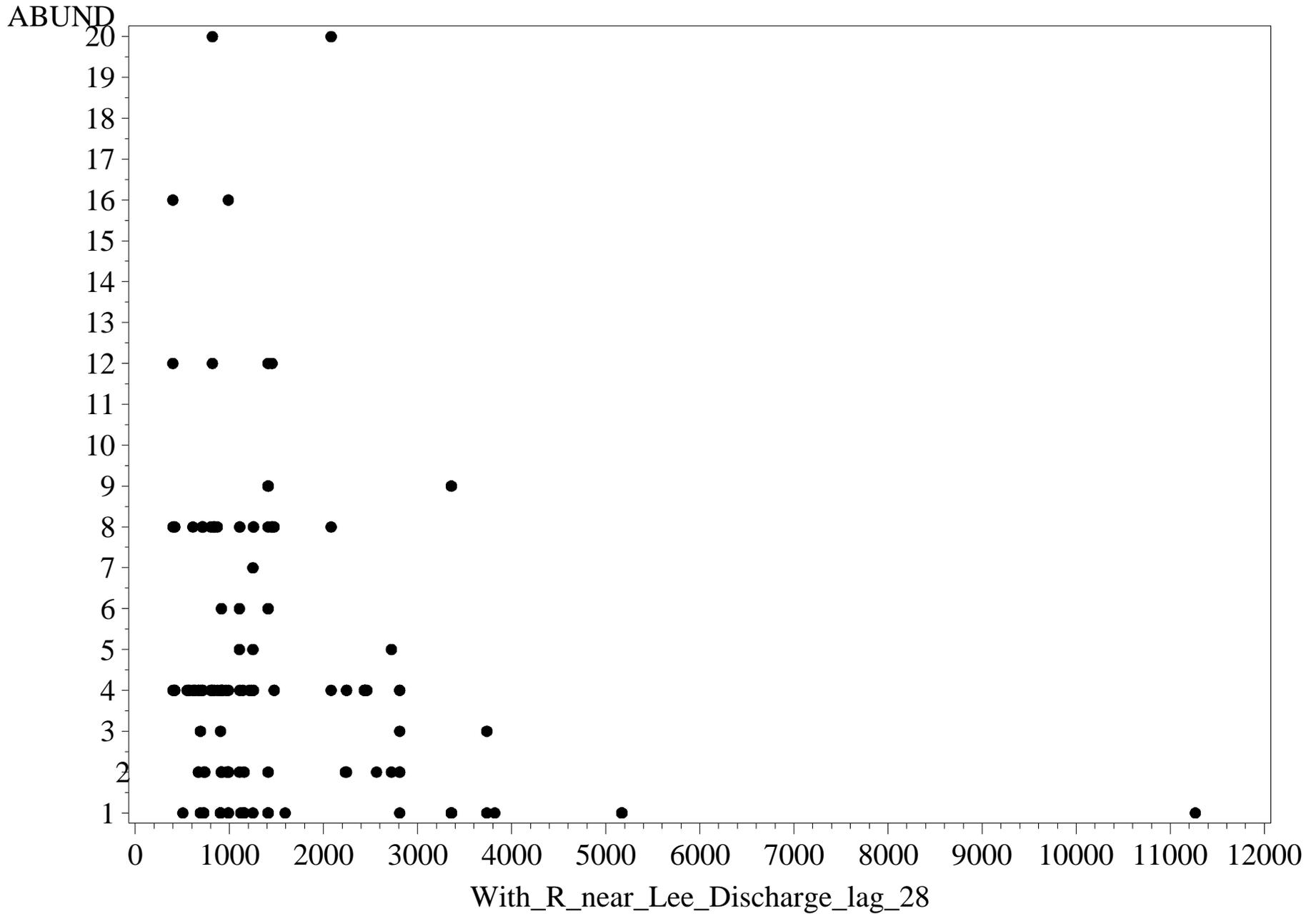
Taxonomic Family vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)
family=Tetrastemmat



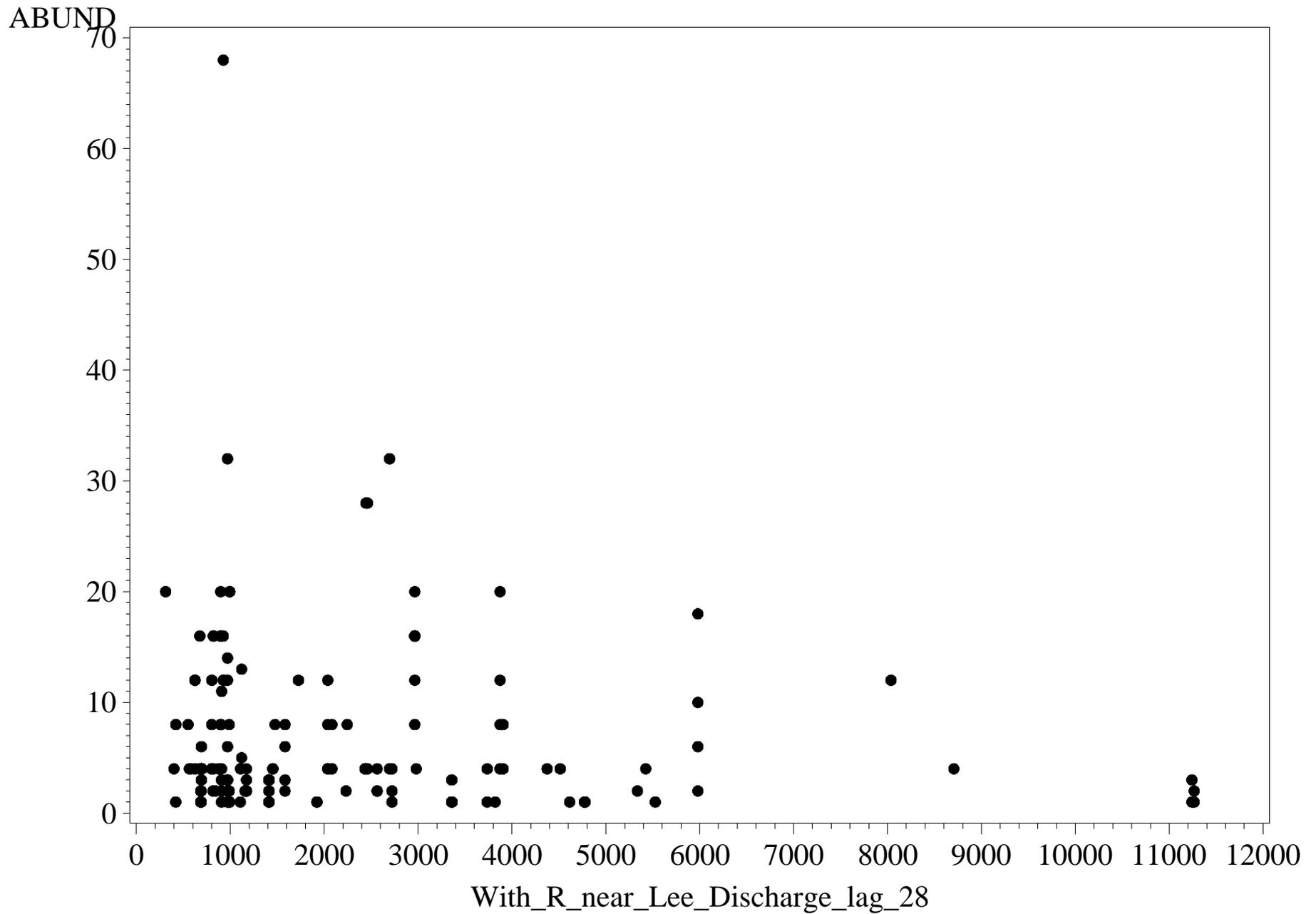
Taxonomic Family vs. 28 Day Lag of Estimated Withlacoochee Flow (at Lee)
family=Aeolosomatid



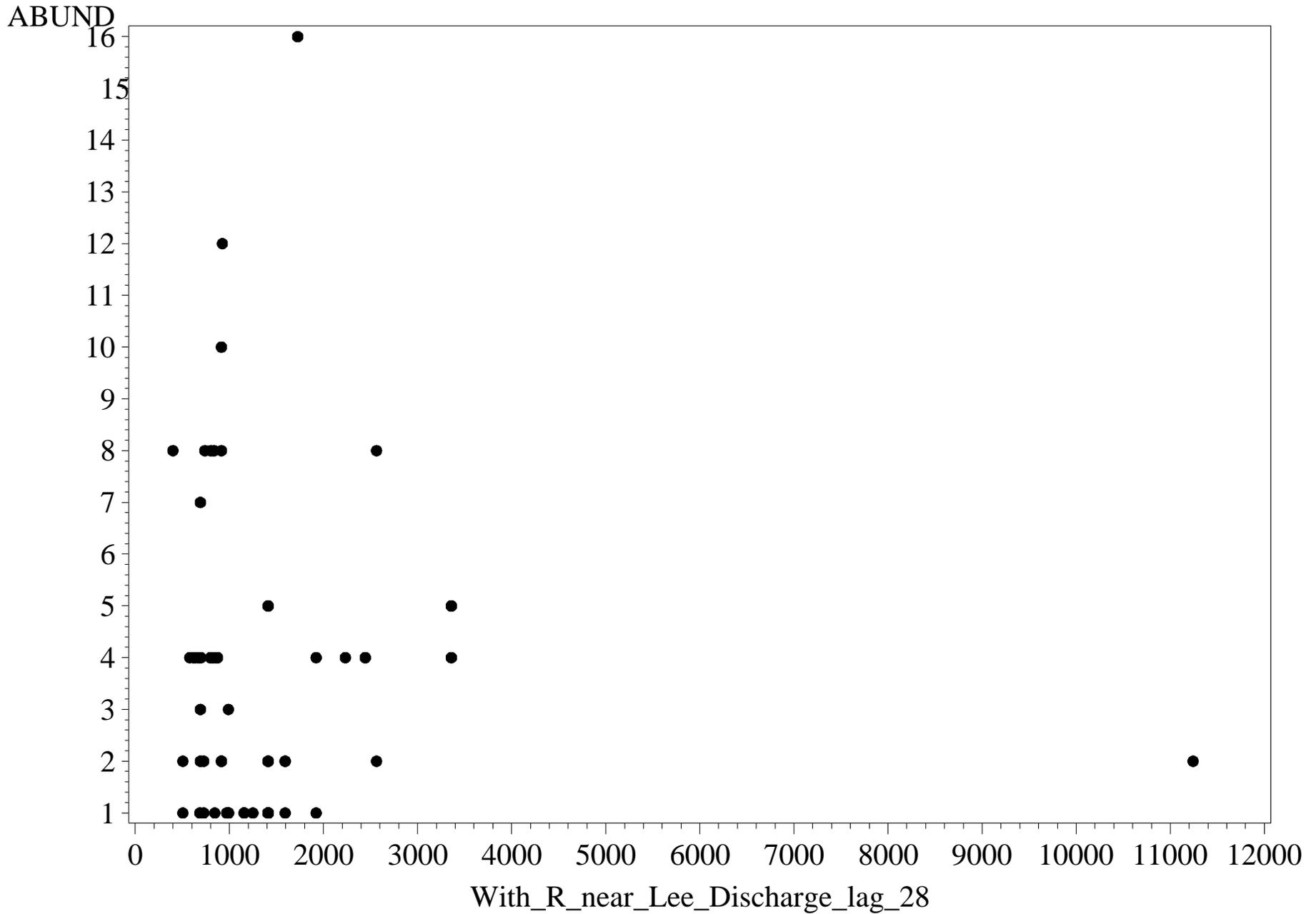
Taxonomic Family vs. 28 Day Lag of Estimated Withlacoochee Flow (at Lee)
family=Ancylidae



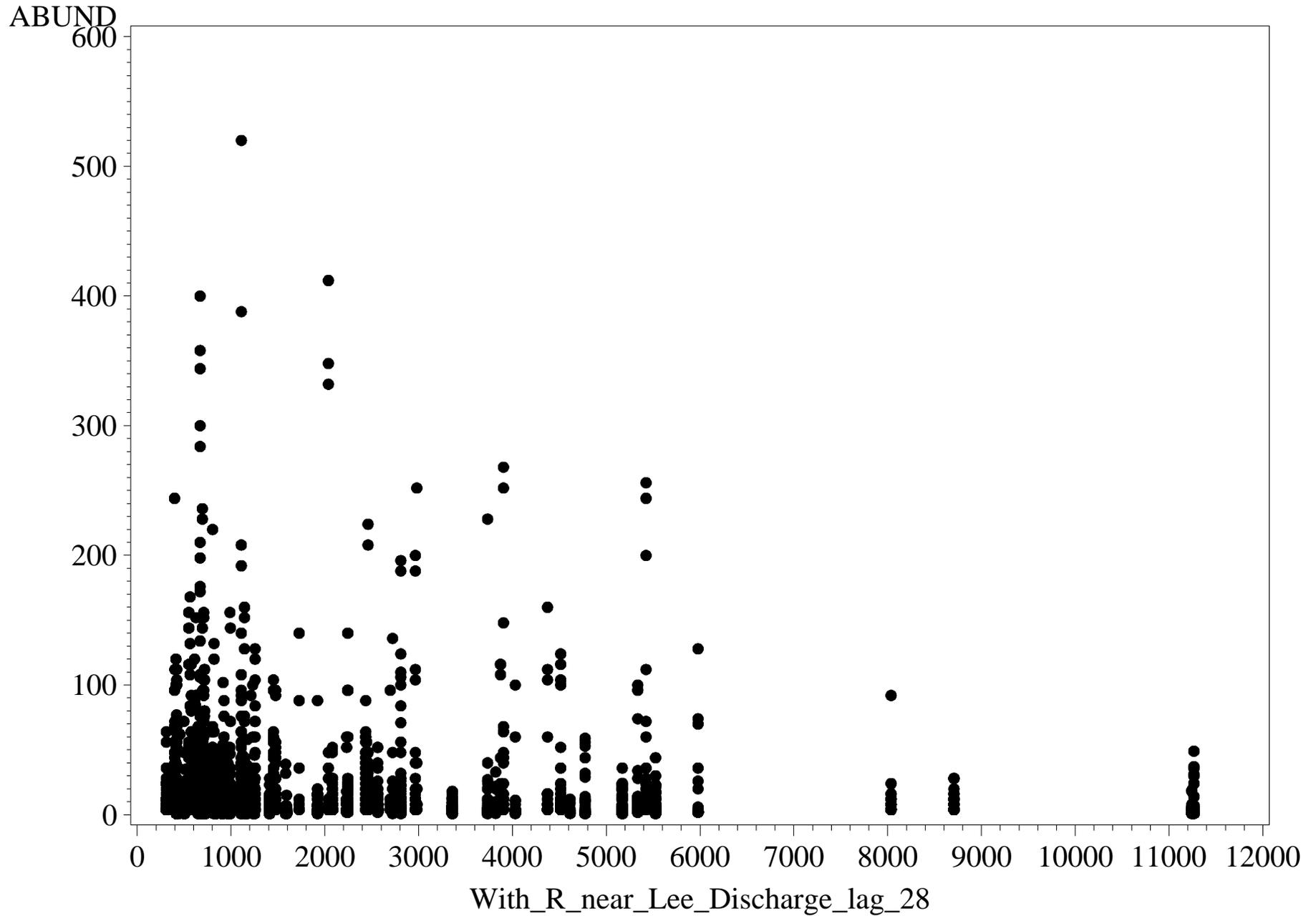
Taxonomic Family vs. 28 Day Lag of Estimated Withlacoochee Flow (at Lee)
family=Baetidae



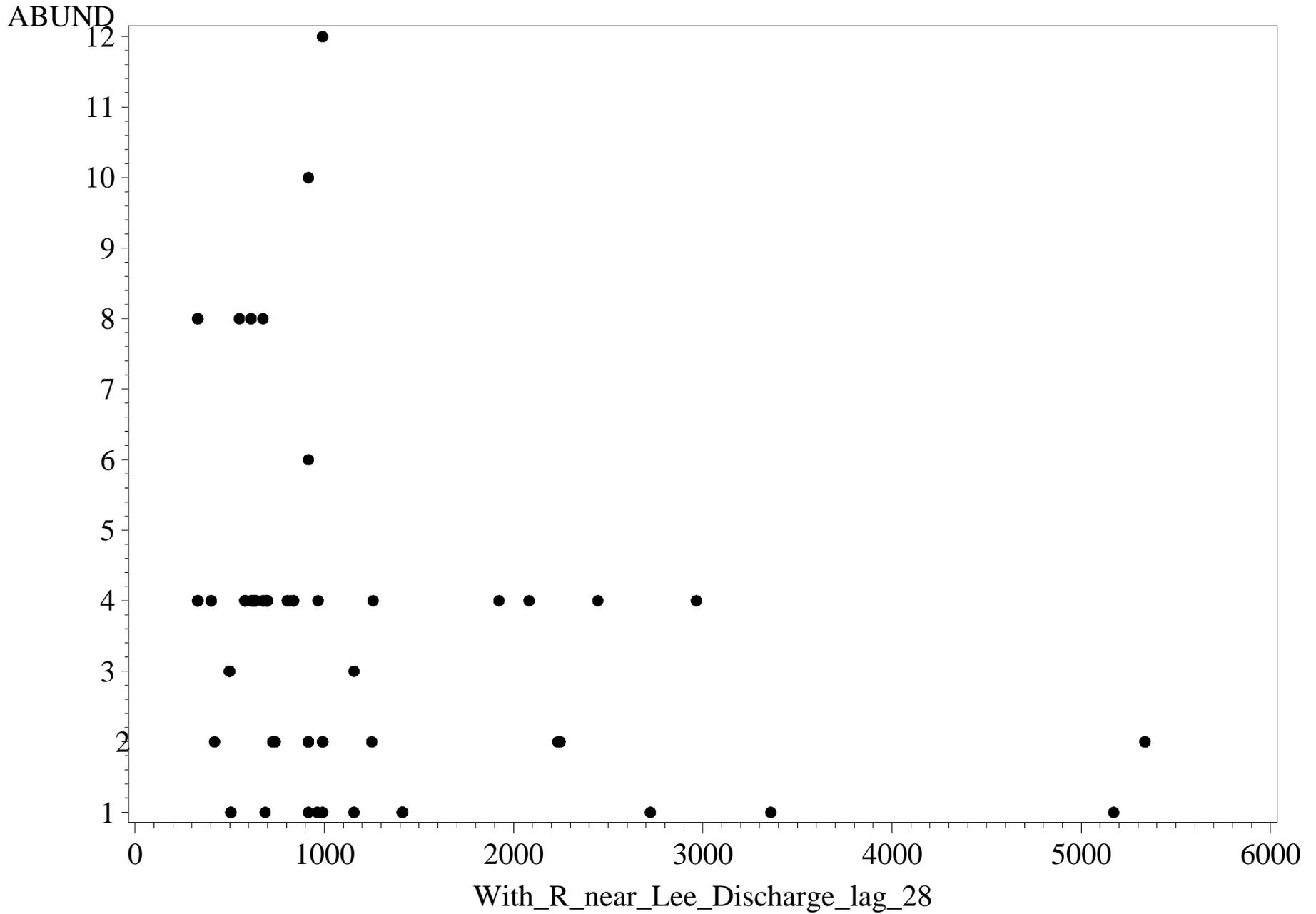
Taxonomic Family vs. 28 Day Lag of Estimated Withlacoochee Flow (at Lee)
family=Ceratopogoni



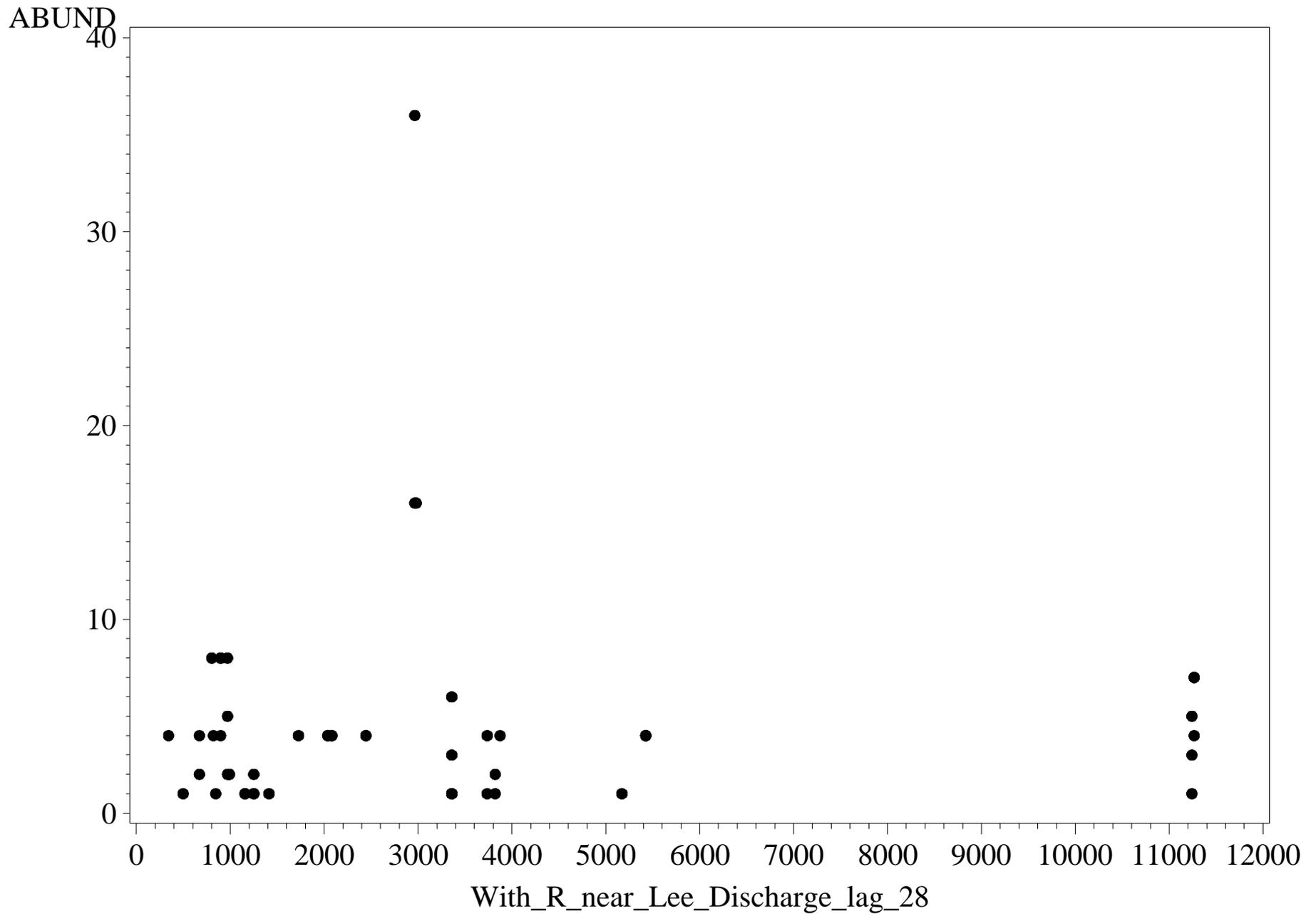
Taxonomic Family vs. 28 Day Lag of Estimated Withlacoochee Flow (at Lee)
family=Chironomidae



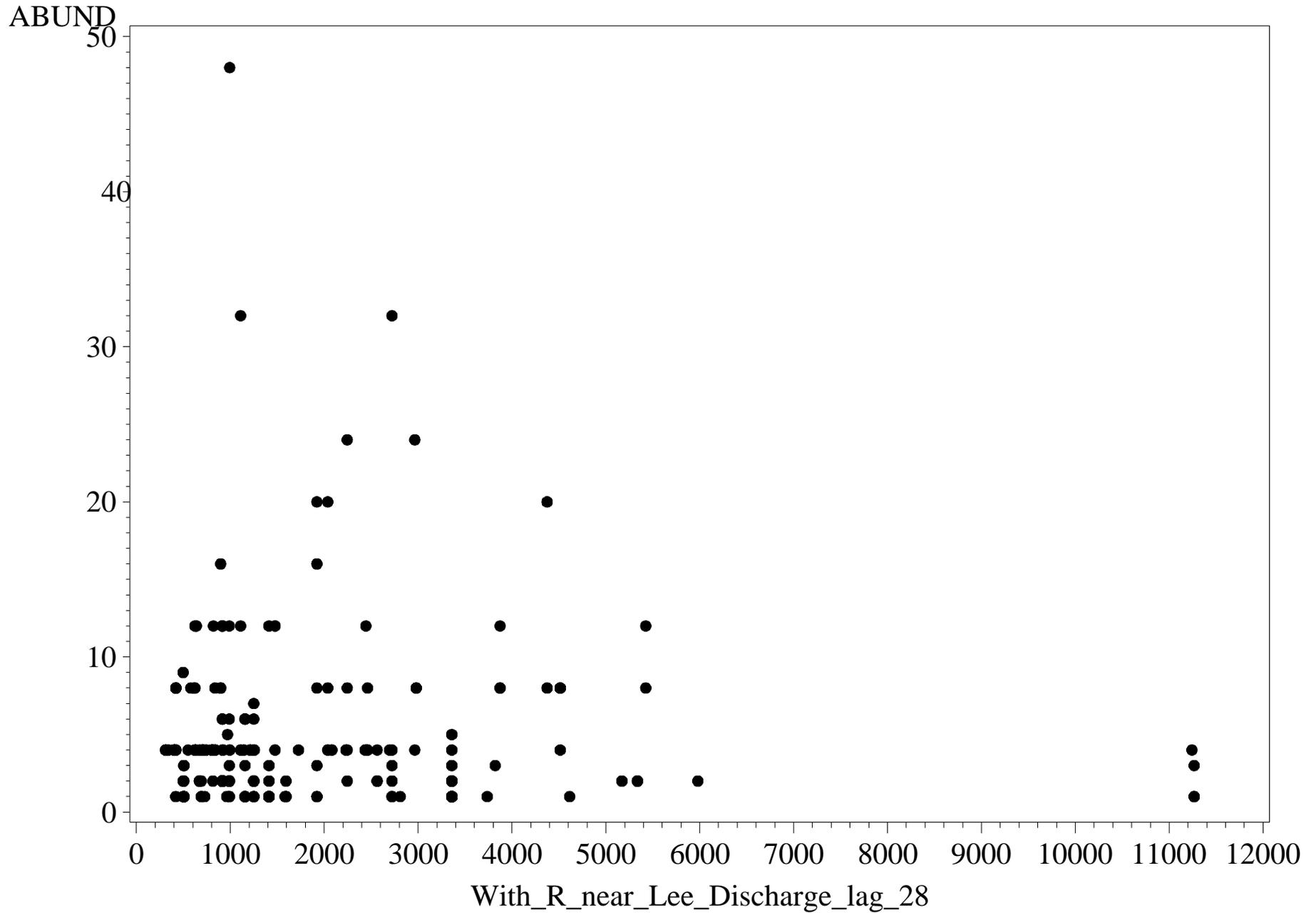
Taxonomic Family vs. 28 Day Lag of Estimated Withlacoochee Flow (at Lee)
family=Coenagrionid



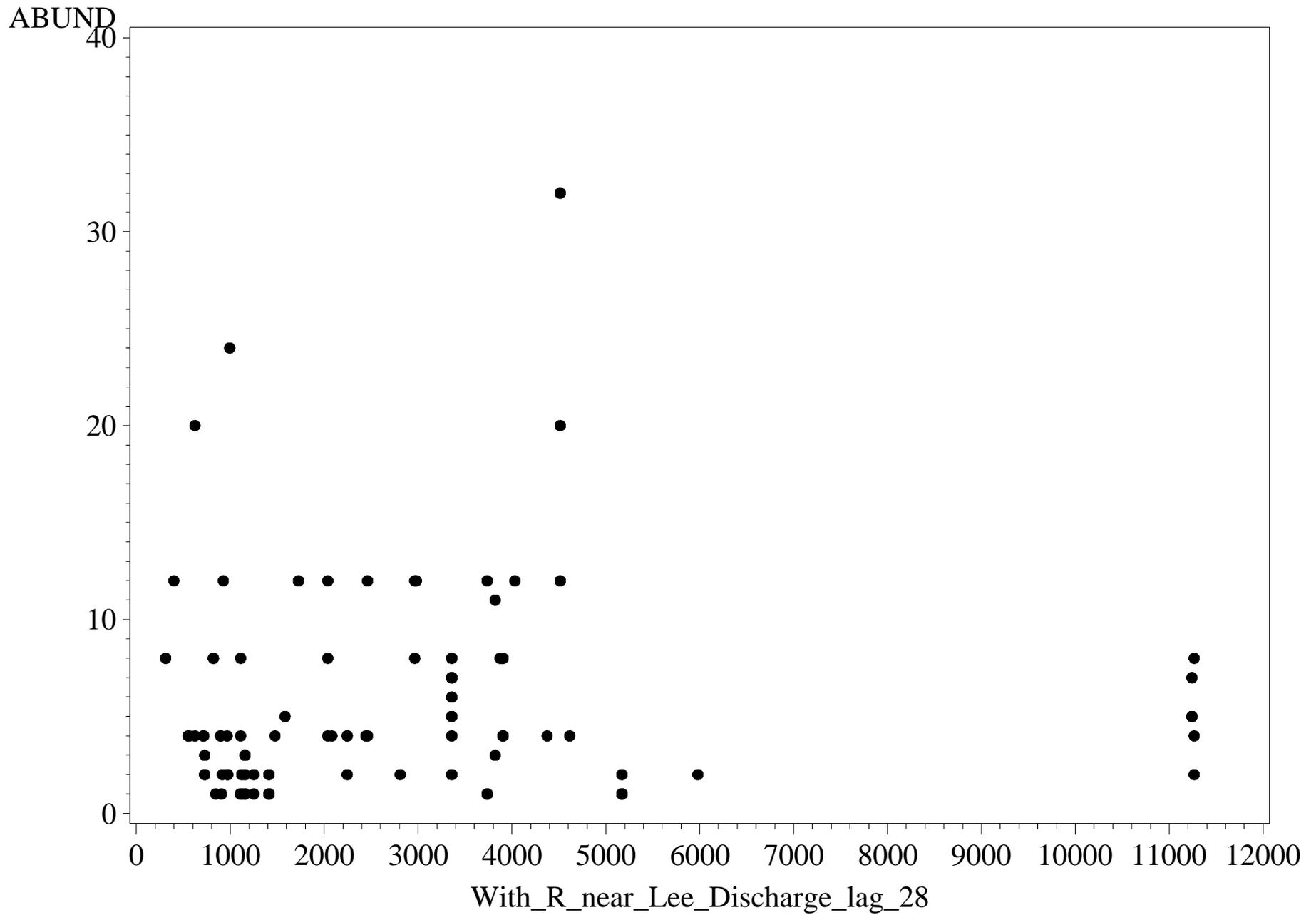
Taxonomic Family vs. 28 Day Lag of Estimated Withlacoochee Flow (at Lee)
family=Corydalidae



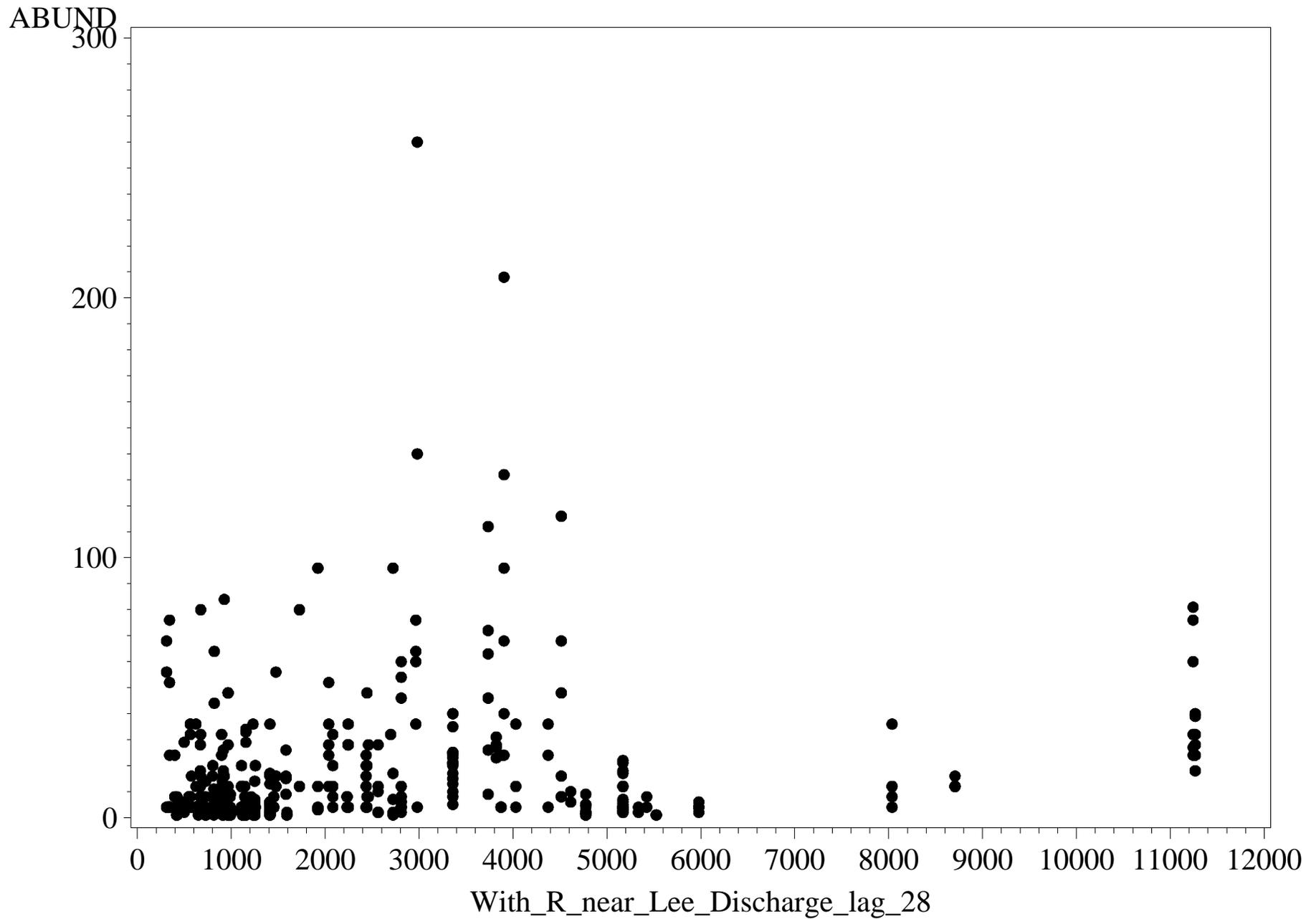
Taxonomic Family vs. 28 Day Lag of Estimated Withlacoochee Flow (at Lee)
family=Elmidae



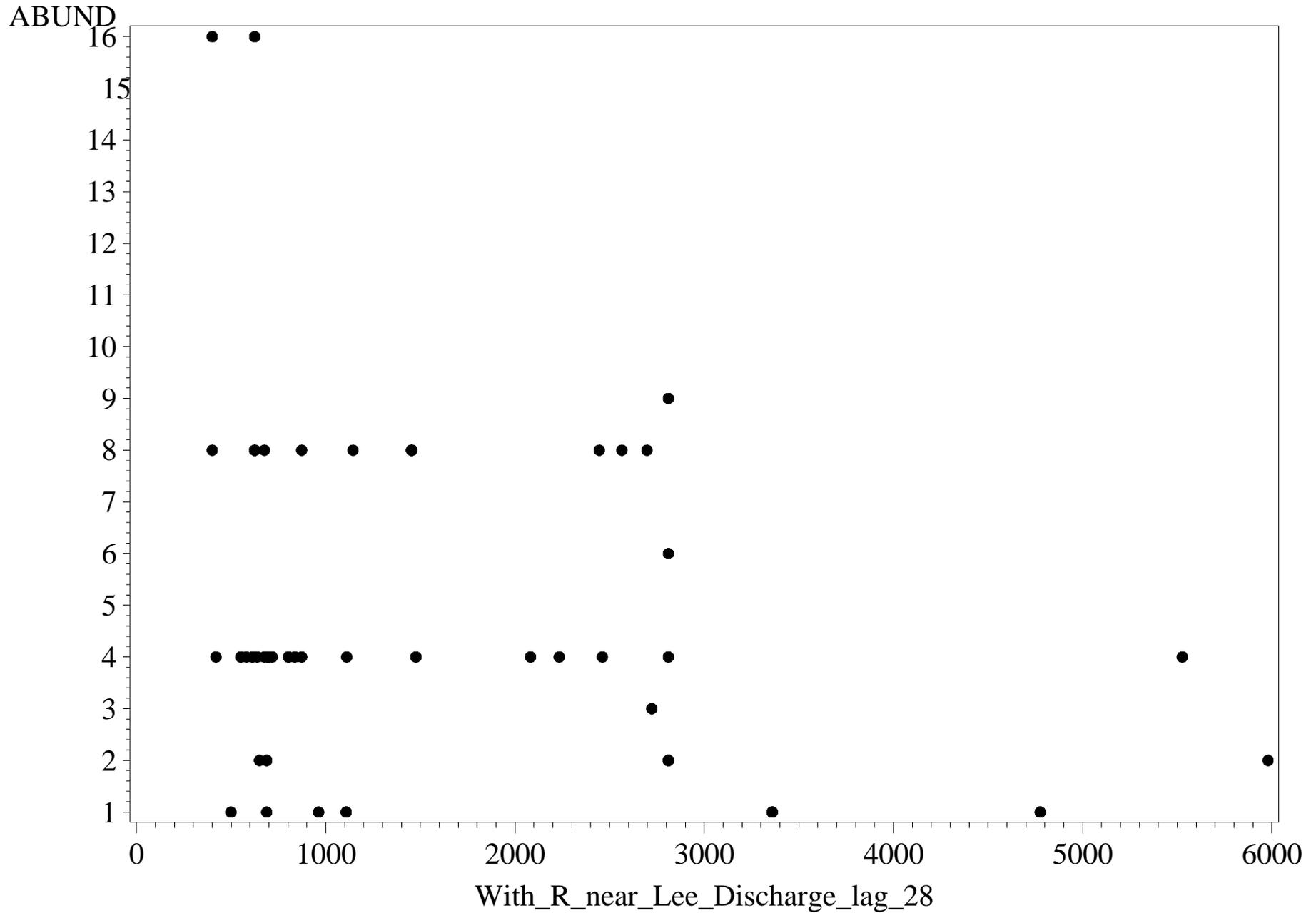
Taxonomic Family vs. 28 Day Lag of Estimated Withlacoochee Flow (at Lee)
family=Empididae



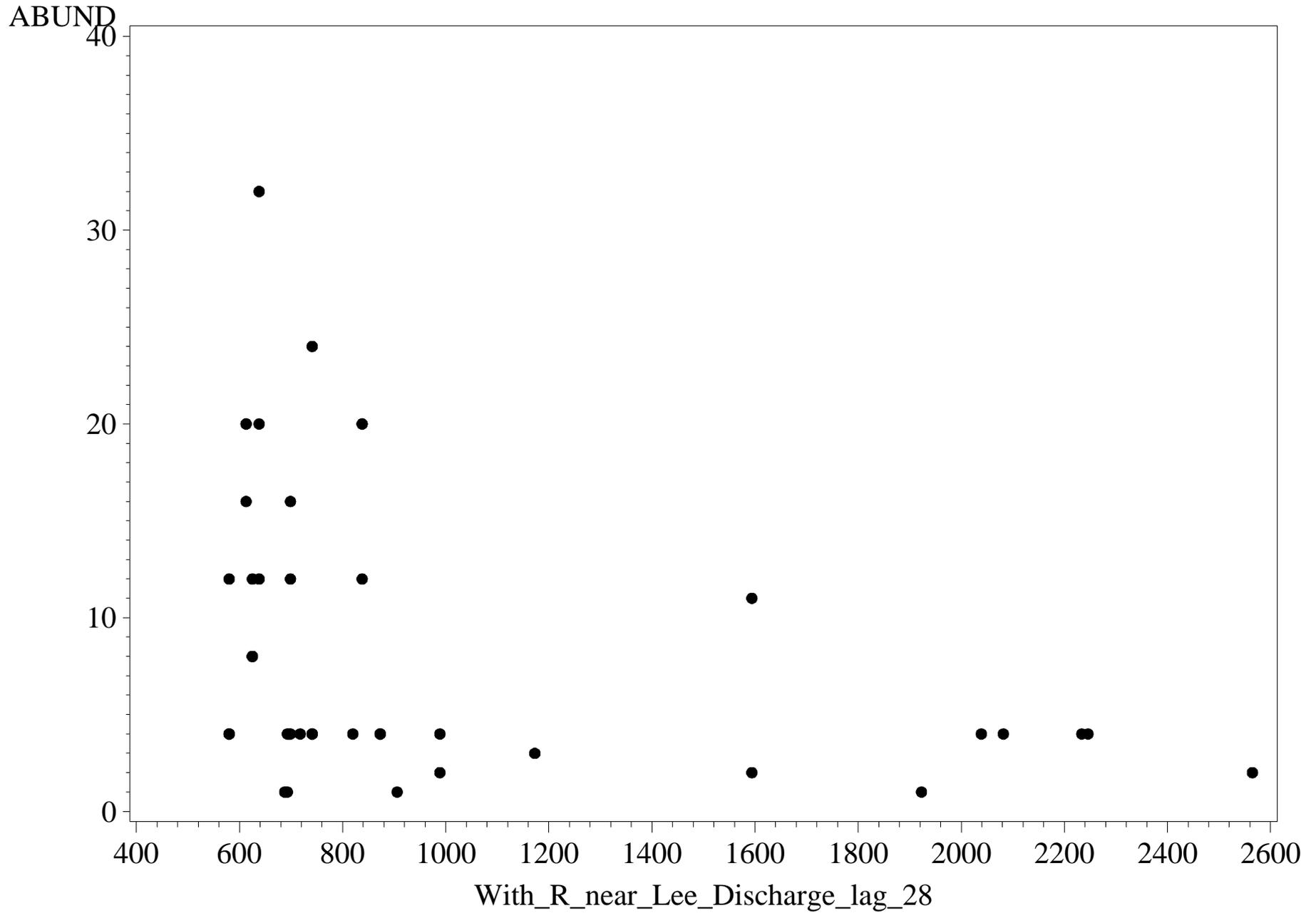
Taxonomic Family vs. 28 Day Lag of Estimated Withlacoochee Flow (at Lee)
family=Heptageniida



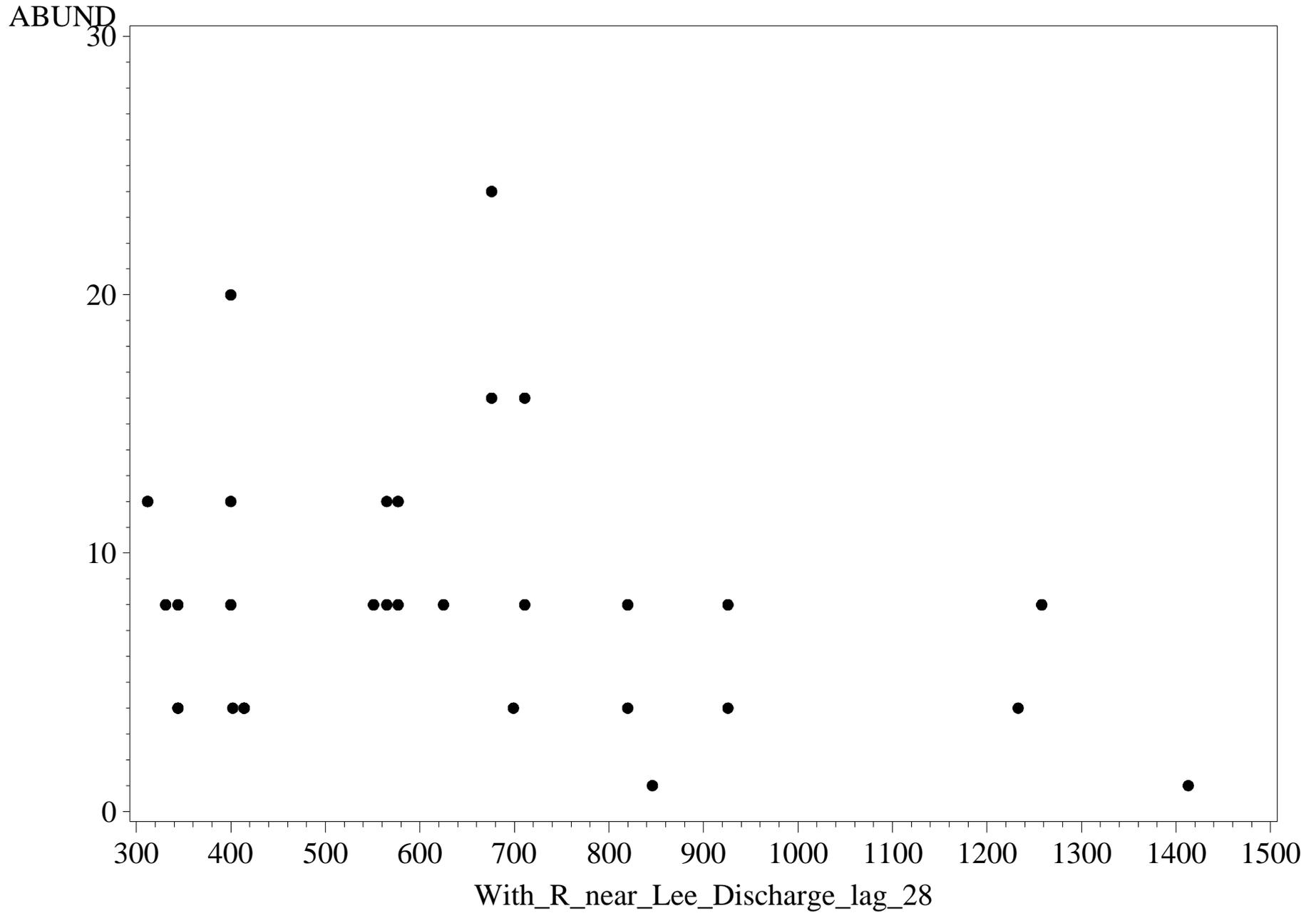
Taxonomic Family vs. 28 Day Lag of Estimated Withlacoochee Flow (at Lee)
family=Hydridae



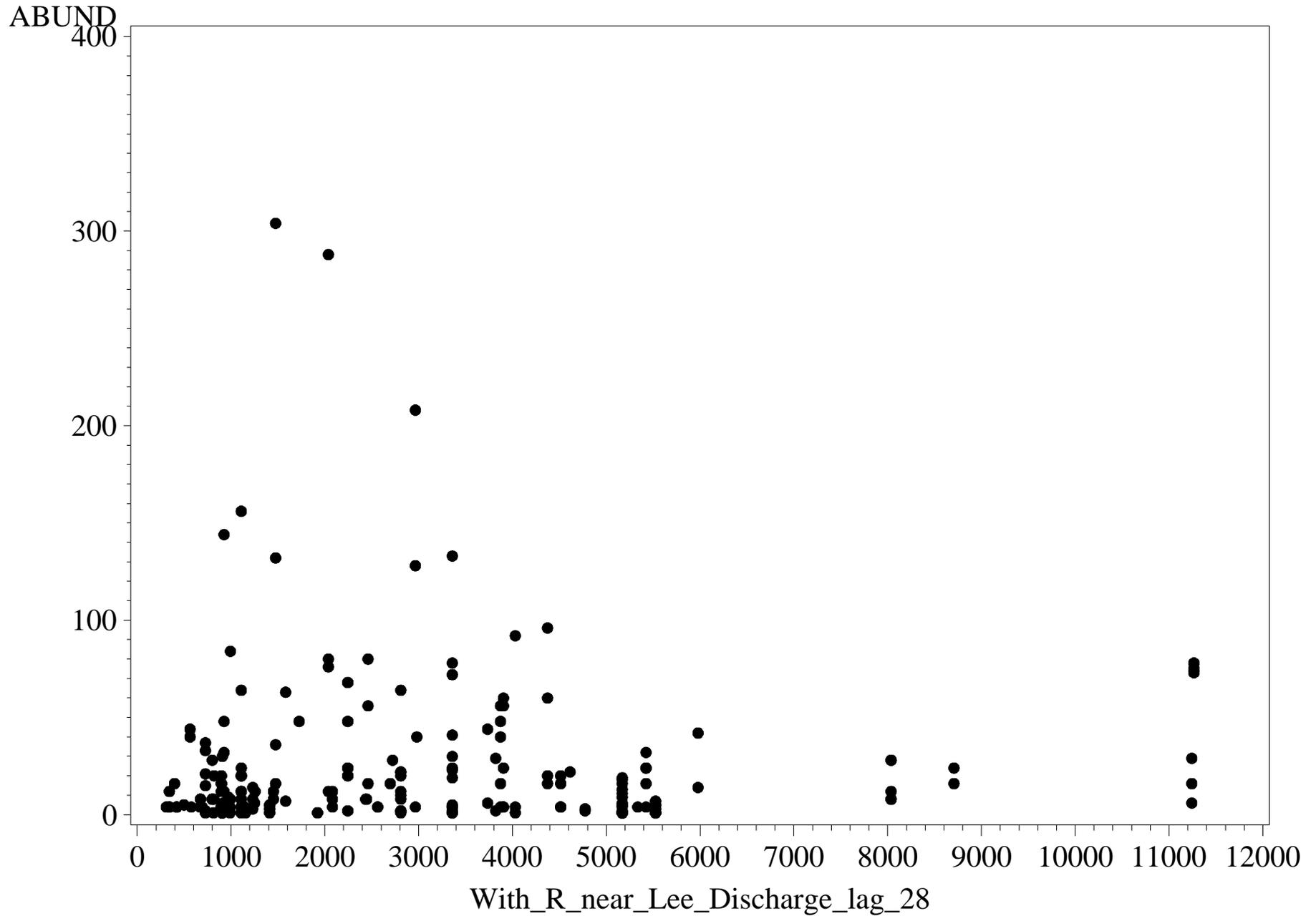
Taxonomic Family vs. 28 Day Lag of Estimated Withlacoochee Flow (at Lee)
family=Hydrobiidae



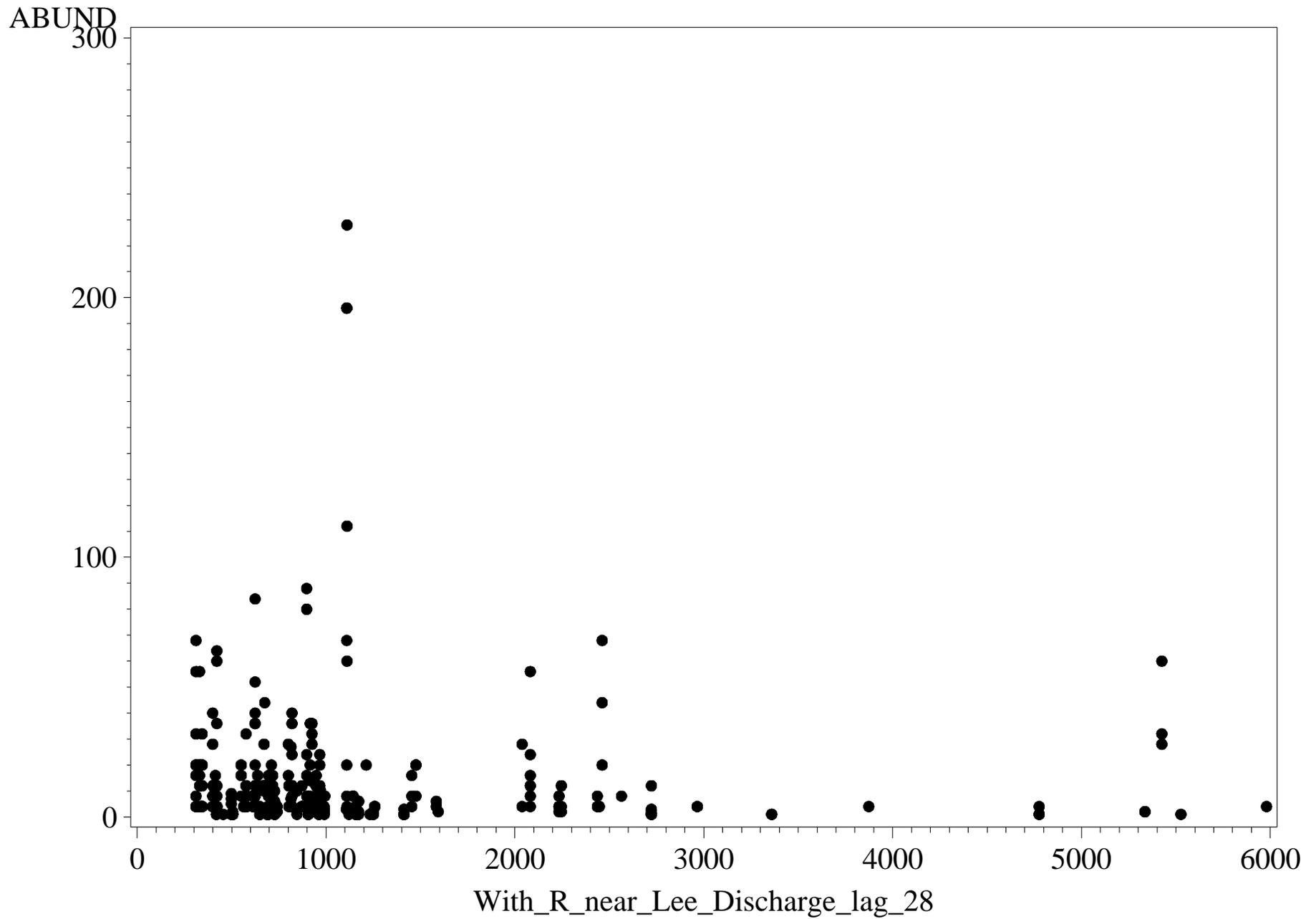
Taxonomic Family vs. 28 Day Lag of Estimated Withlacoochee Flow (at Lee)
family=Hydrodromida



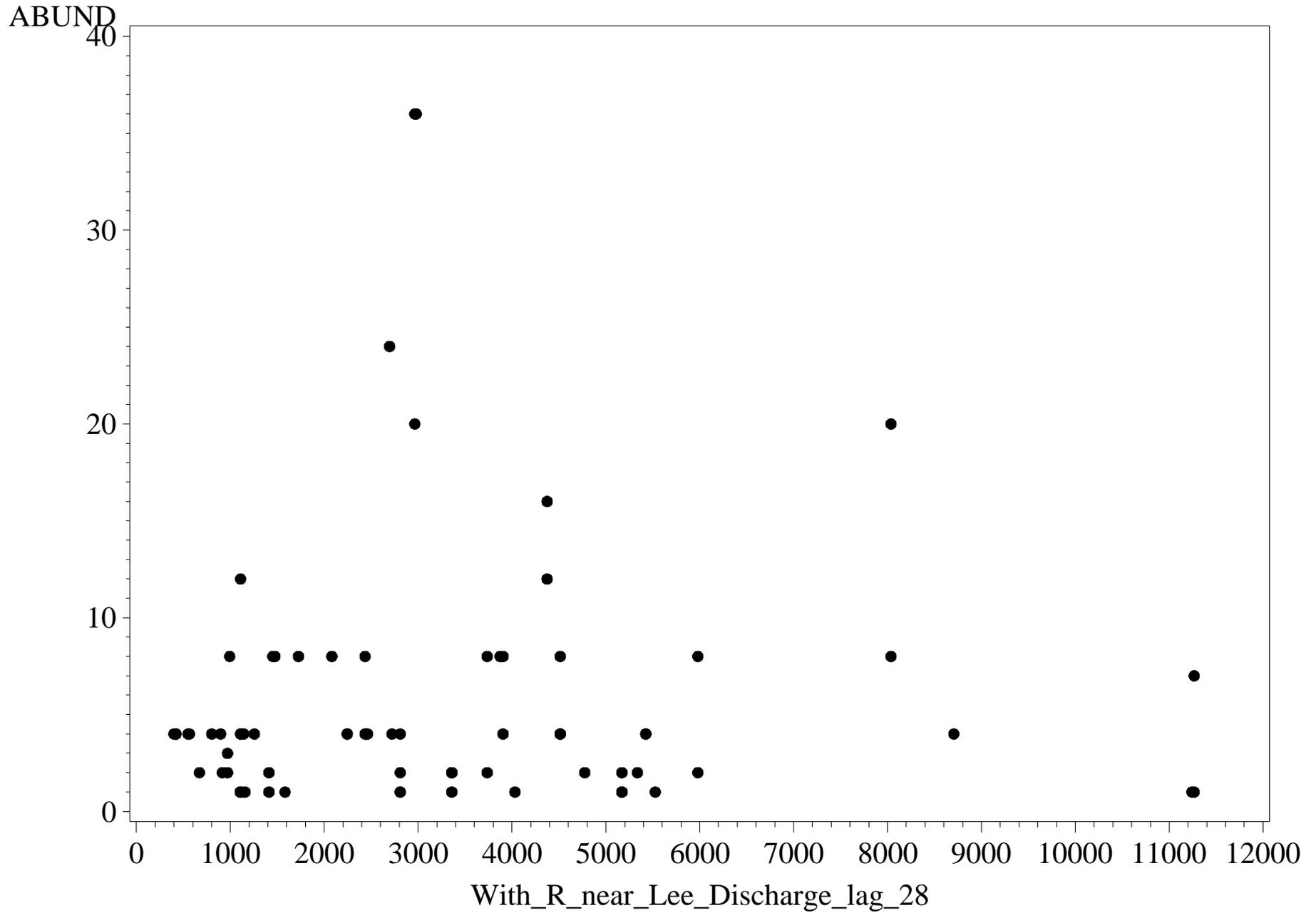
Taxonomic Family vs. 28 Day Lag of Estimated Withlacoochee Flow (at Lee)
family=Hydropsychid



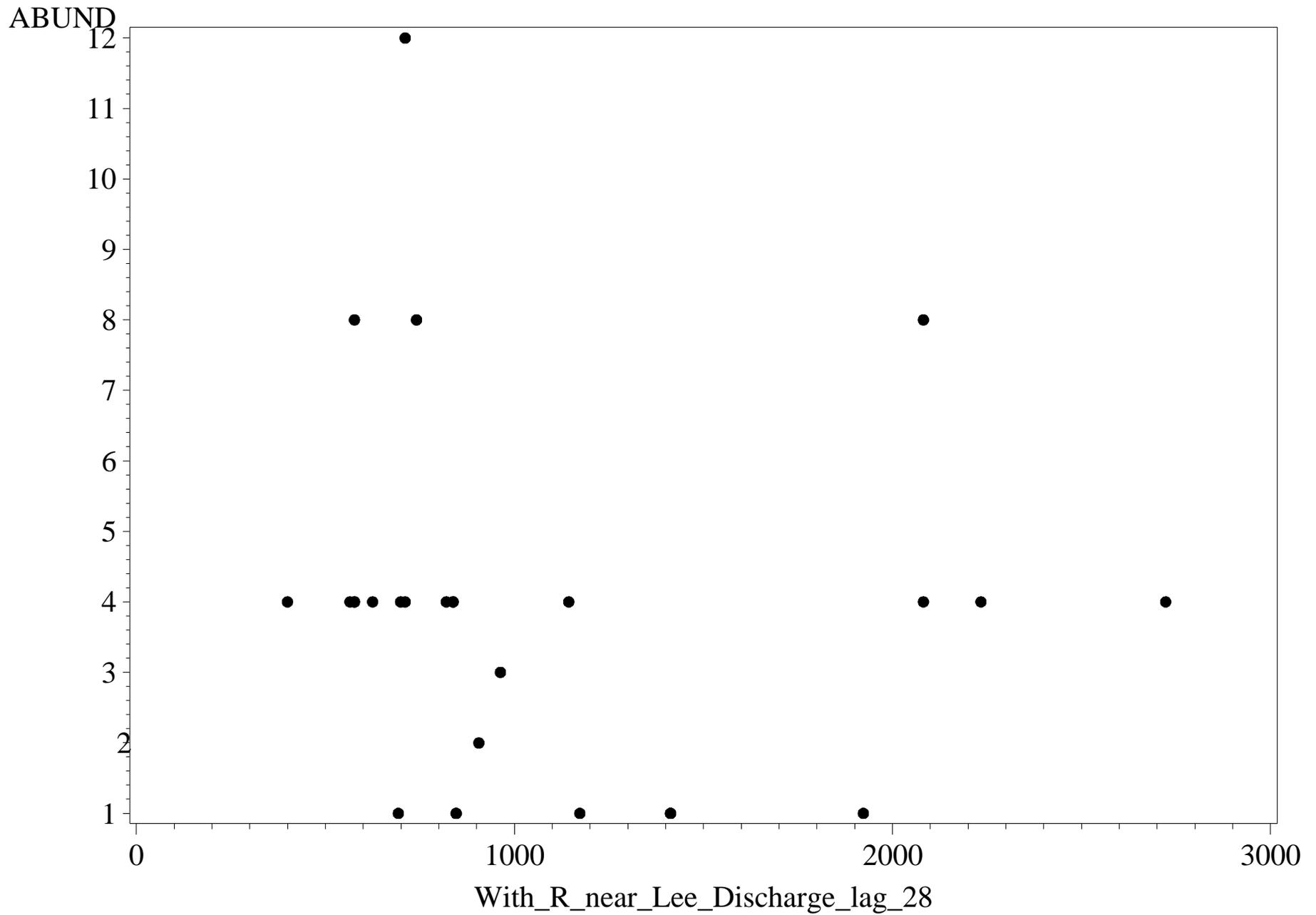
Taxonomic Family vs. 28 Day Lag of Estimated Withlacoochee Flow (at Lee)
family=Hydroptilida



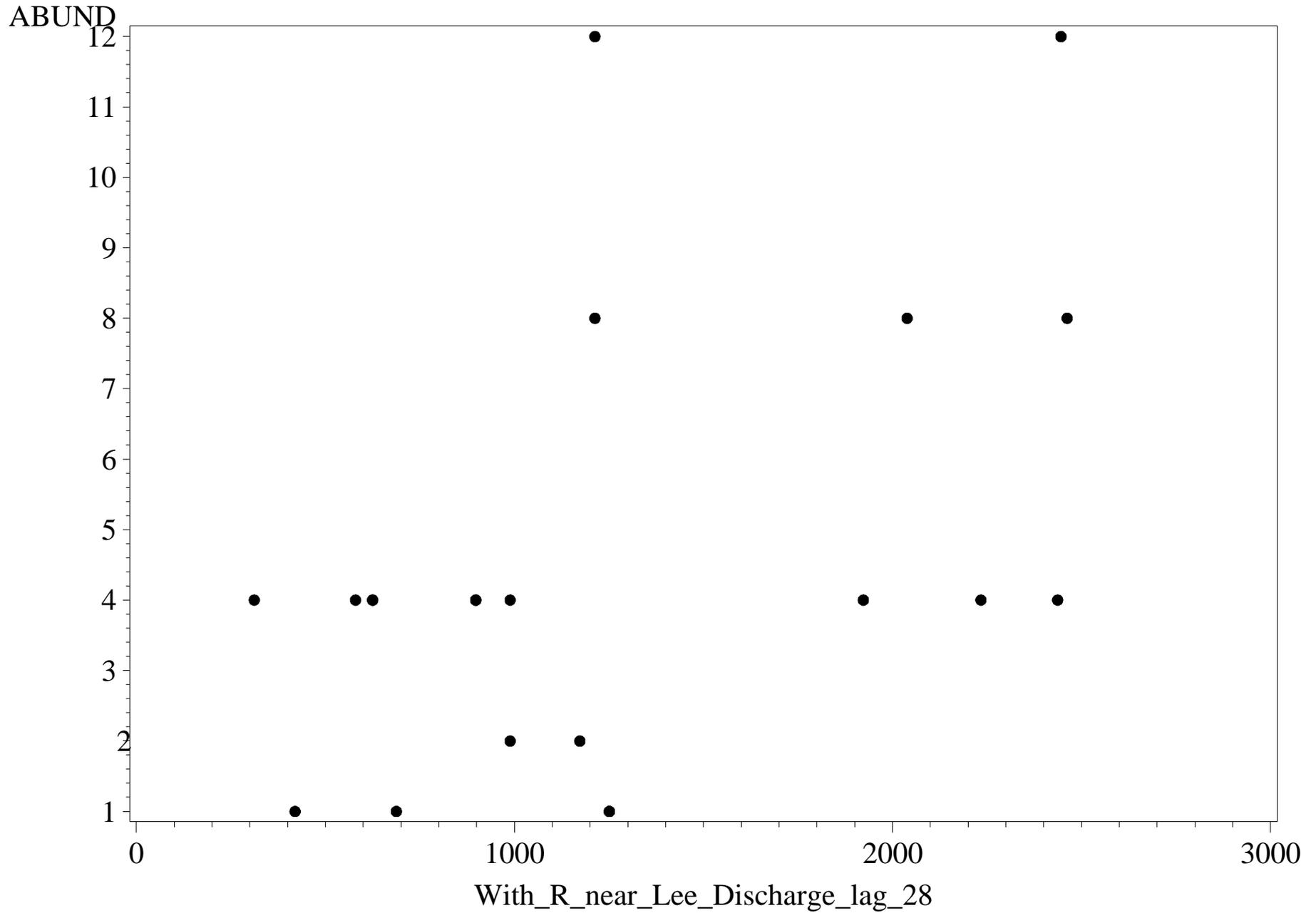
Taxonomic Family vs. 28 Day Lag of Estimated Withlacoochee Flow (at Lee)
family=Isonychiidae



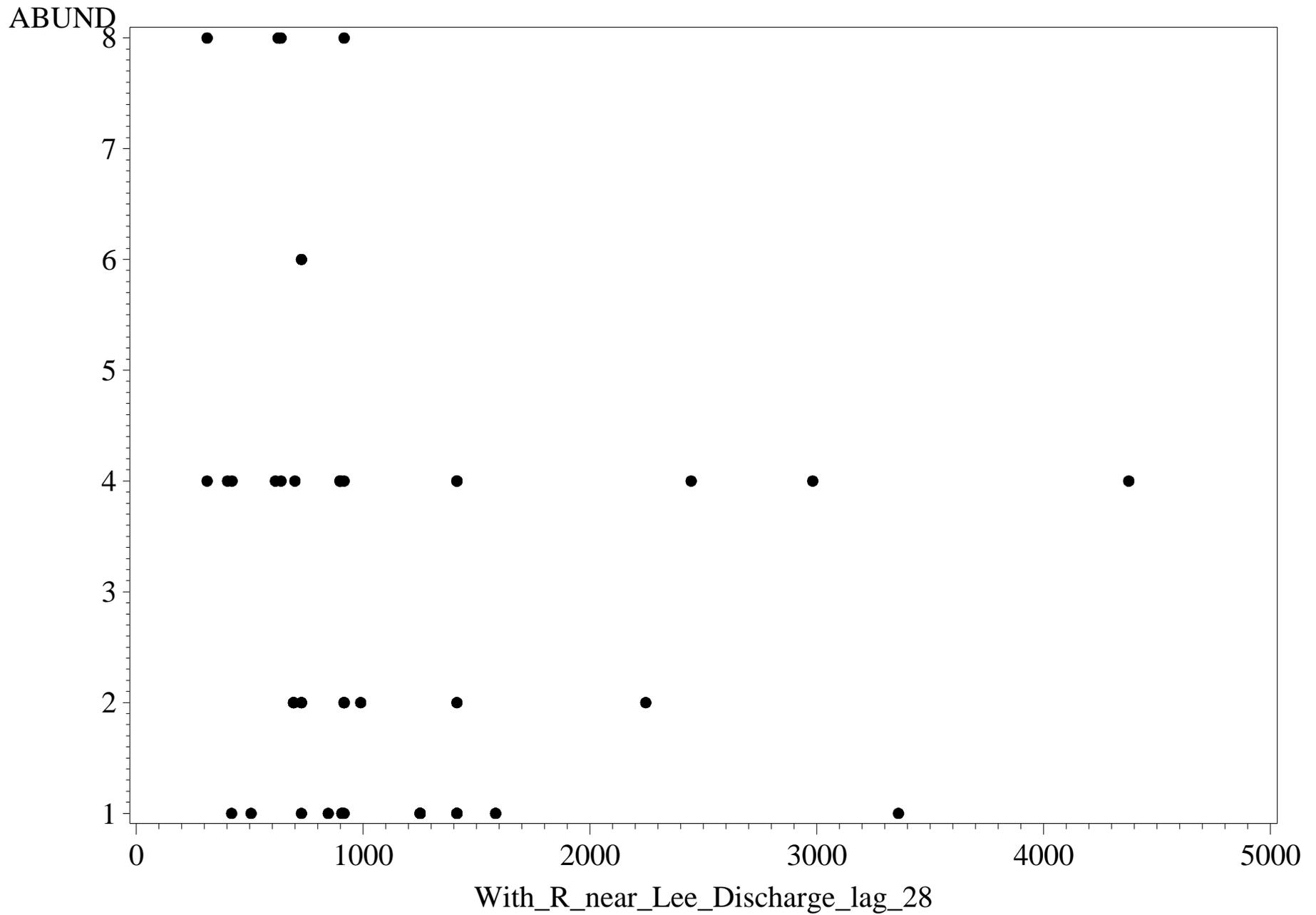
Taxonomic Family vs. 28 Day Lag of Estimated Withlacoochee Flow (at Lee)
family=Isotomidae



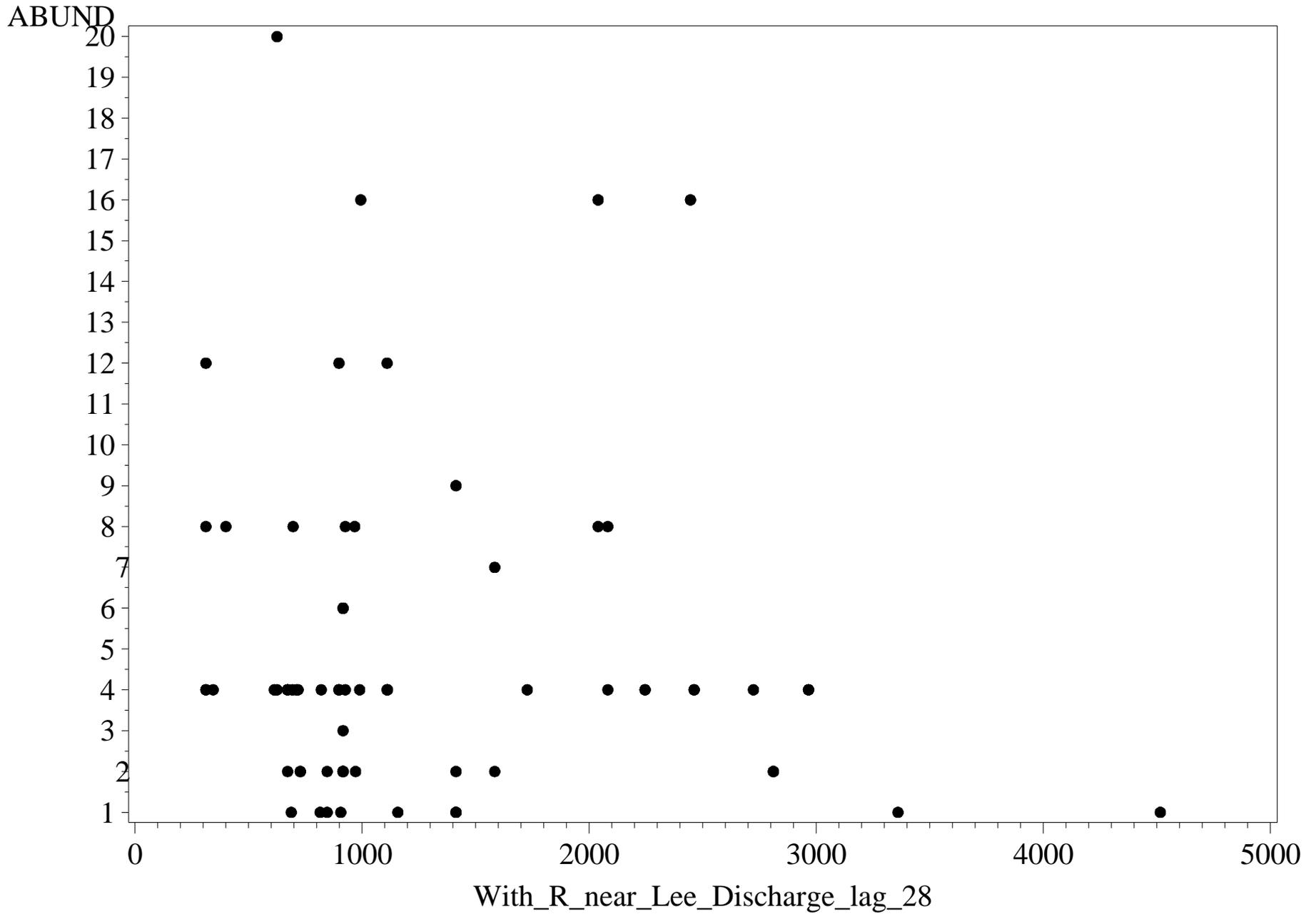
Taxonomic Family vs. 28 Day Lag of Estimated Withlacoochee Flow (at Lee)
family=Lebertiidae



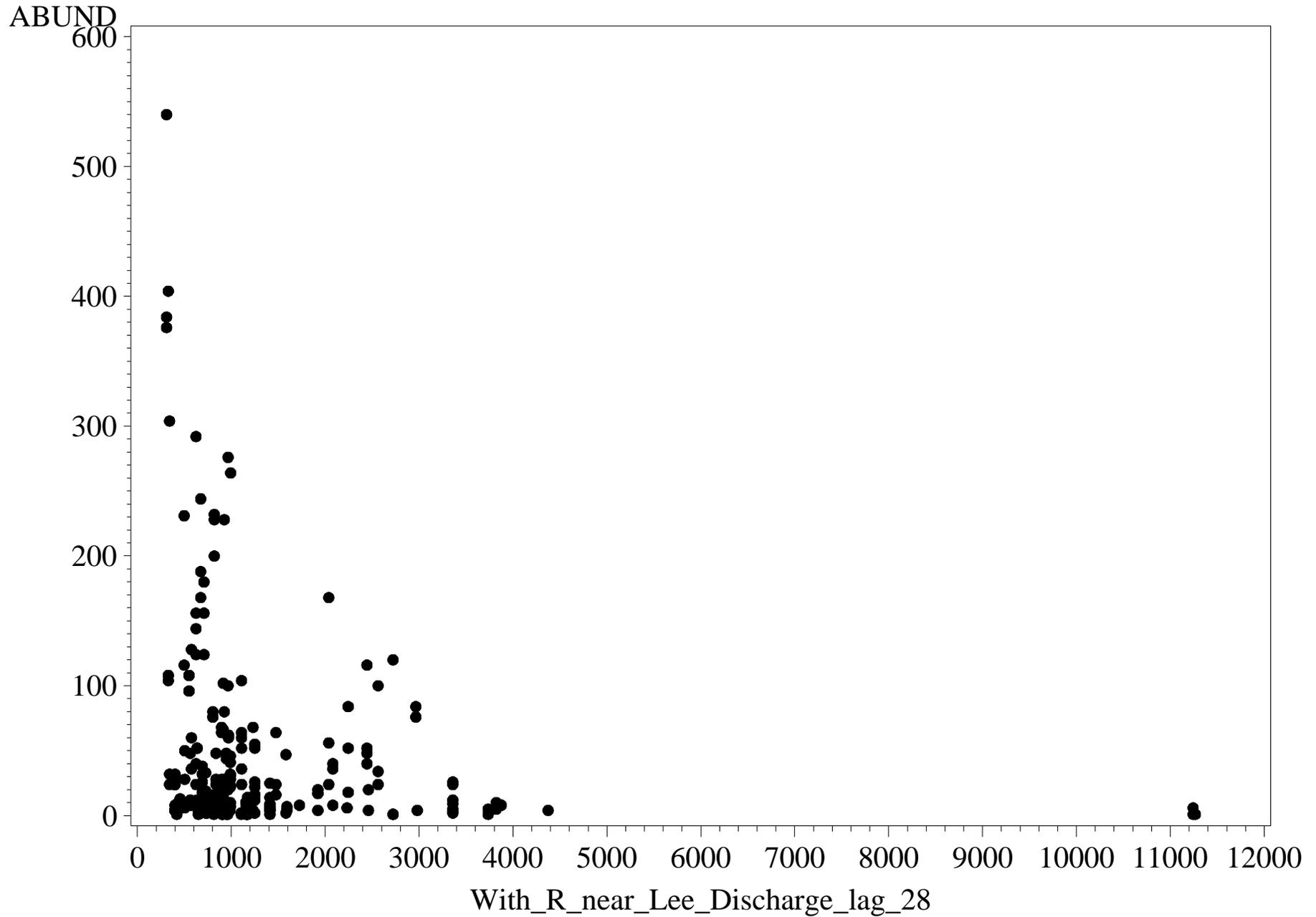
Taxonomic Family vs. 28 Day Lag of Estimated Withlacoochee Flow (at Lee)
family=Lectocerinae



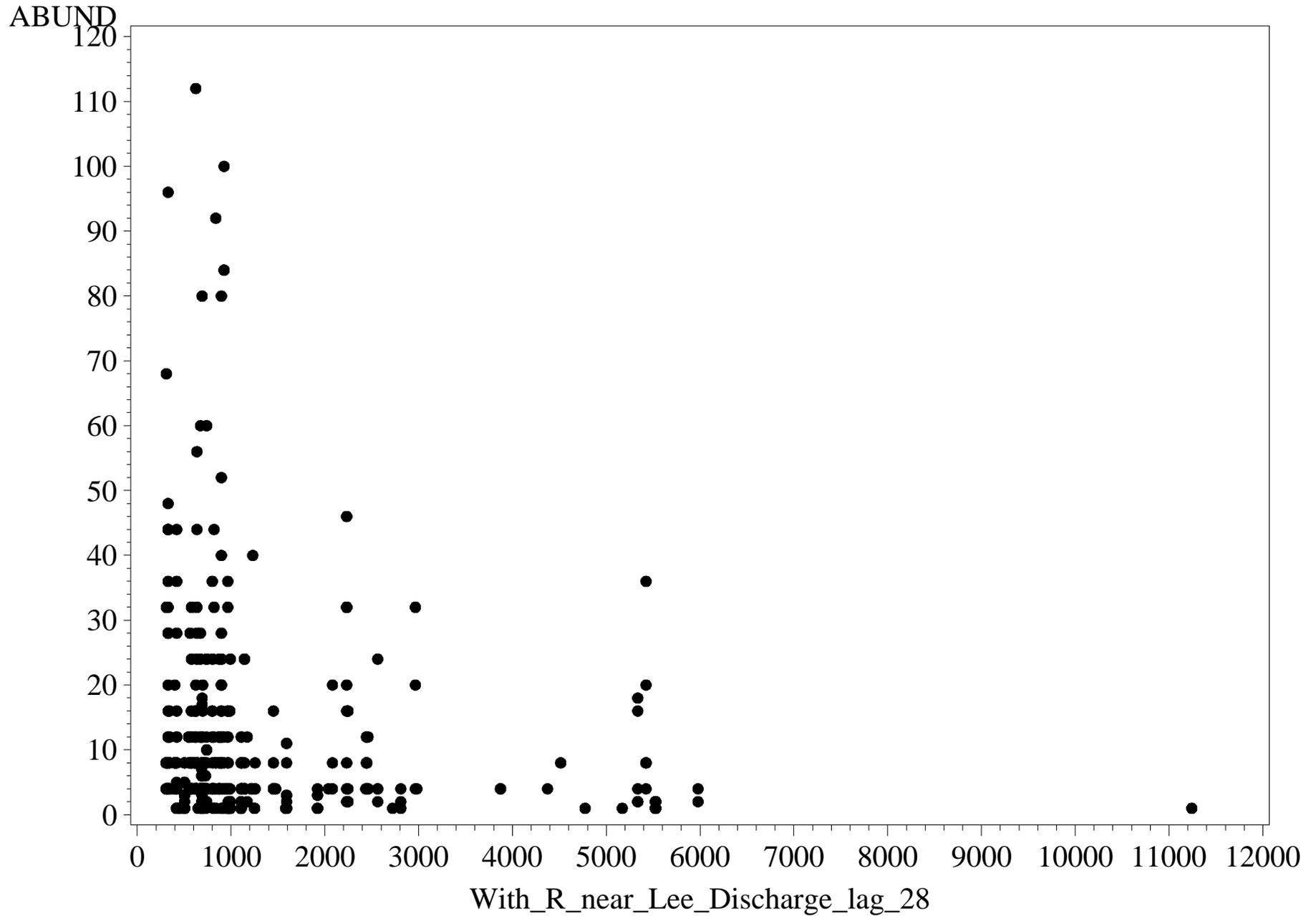
Taxonomic Family vs. 28 Day Lag of Estimated Withlacoochee Flow (at Lee)
family=Leptoceridae



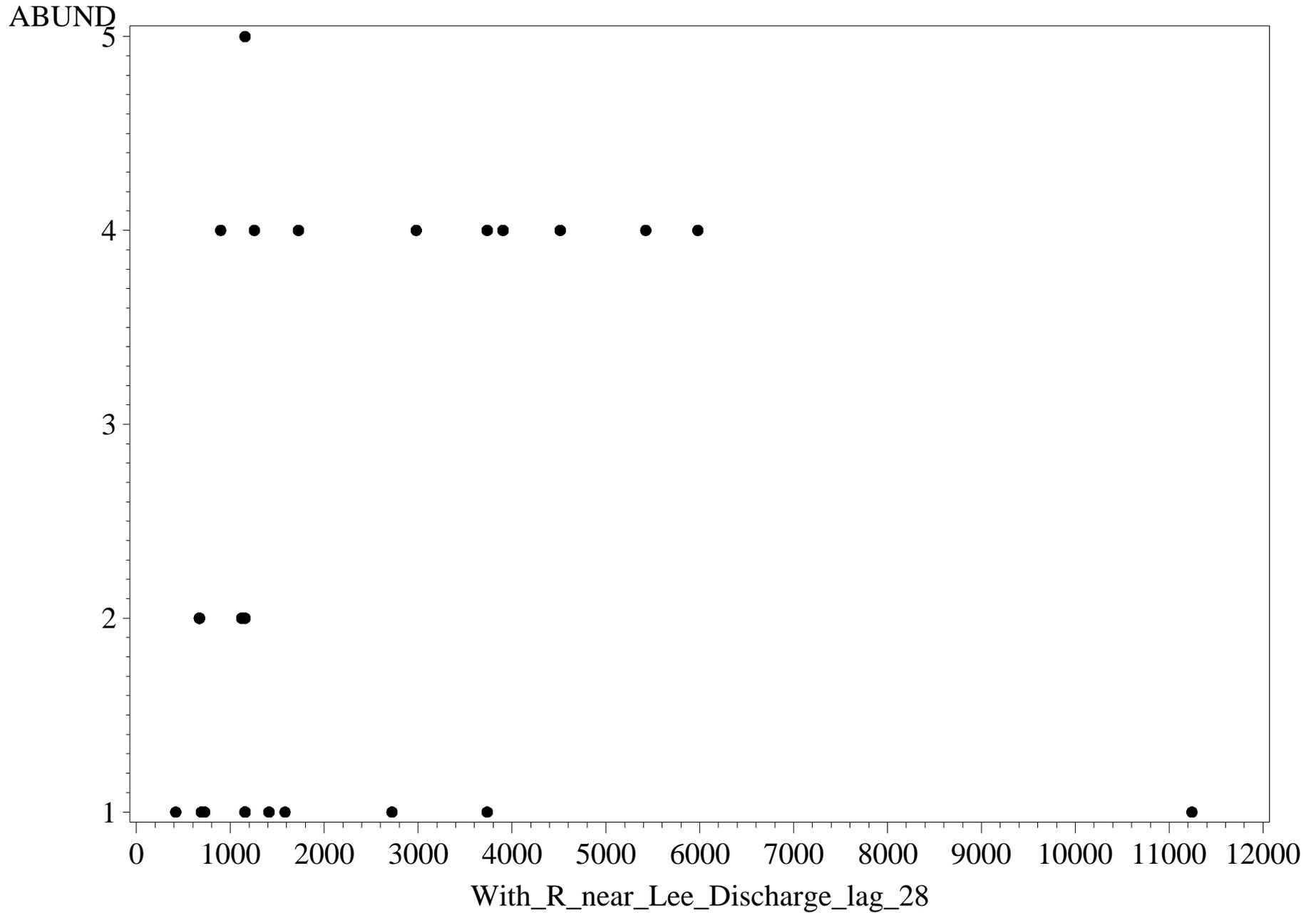
Taxonomic Family vs. 28 Day Lag of Estimated Withlacoochee Flow (at Lee)
family=Leptohyphida



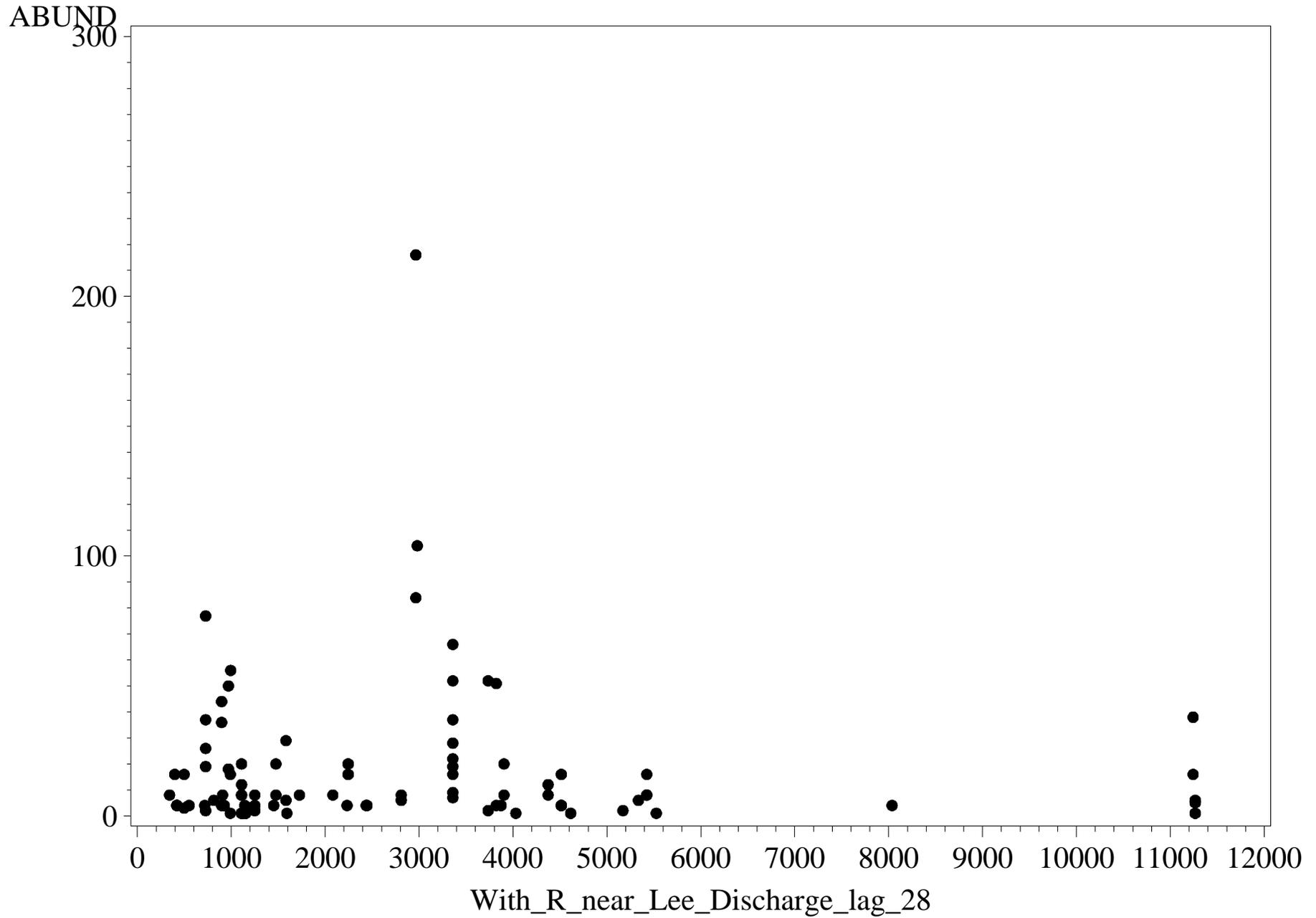
Taxonomic Family vs. 28 Day Lag of Estimated Withlacoochee Flow (at Lee)
family=Naididae



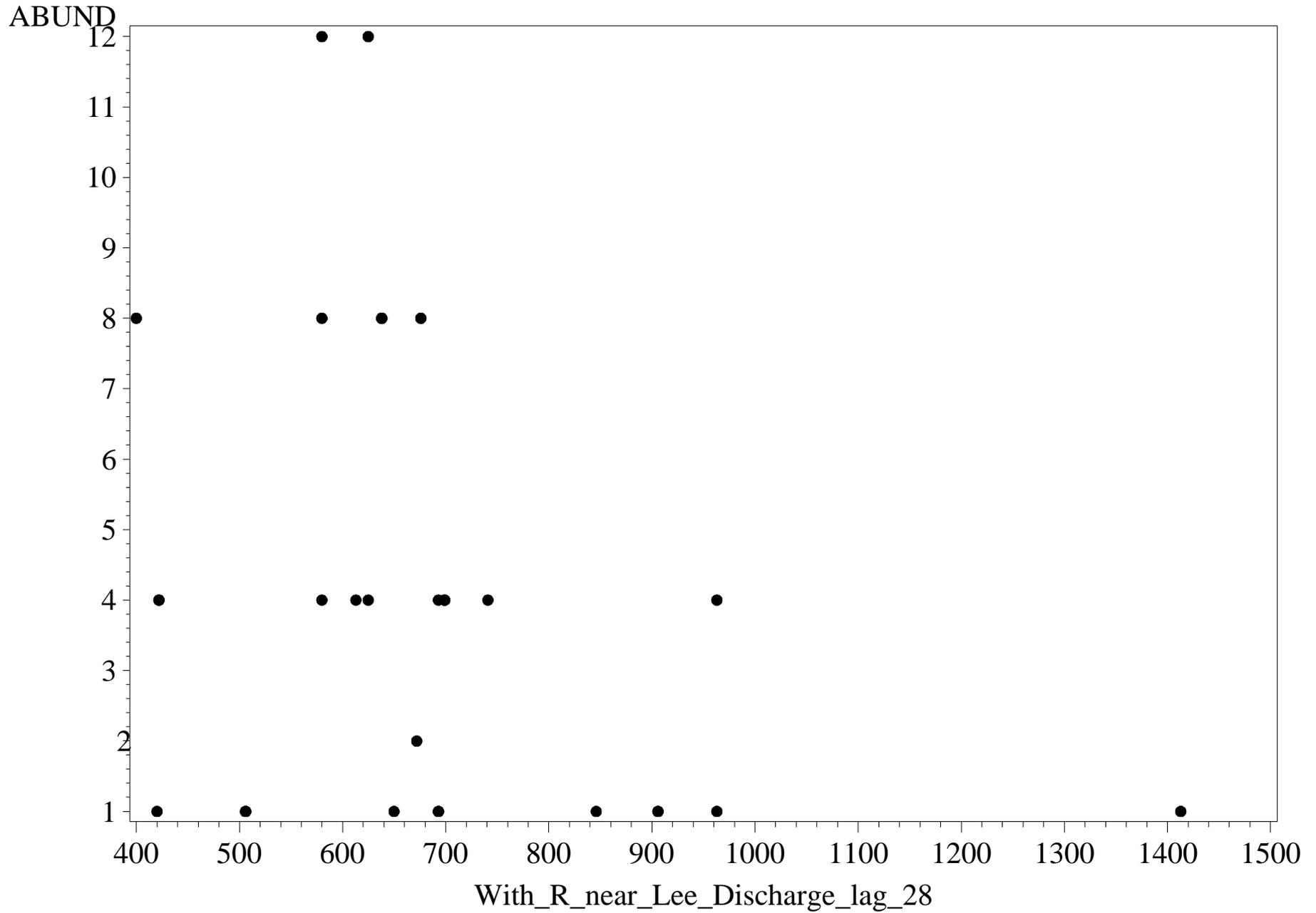
Taxonomic Family vs. 28 Day Lag of Estimated Withlacoochee Flow (at Lee)
family=Perlidae



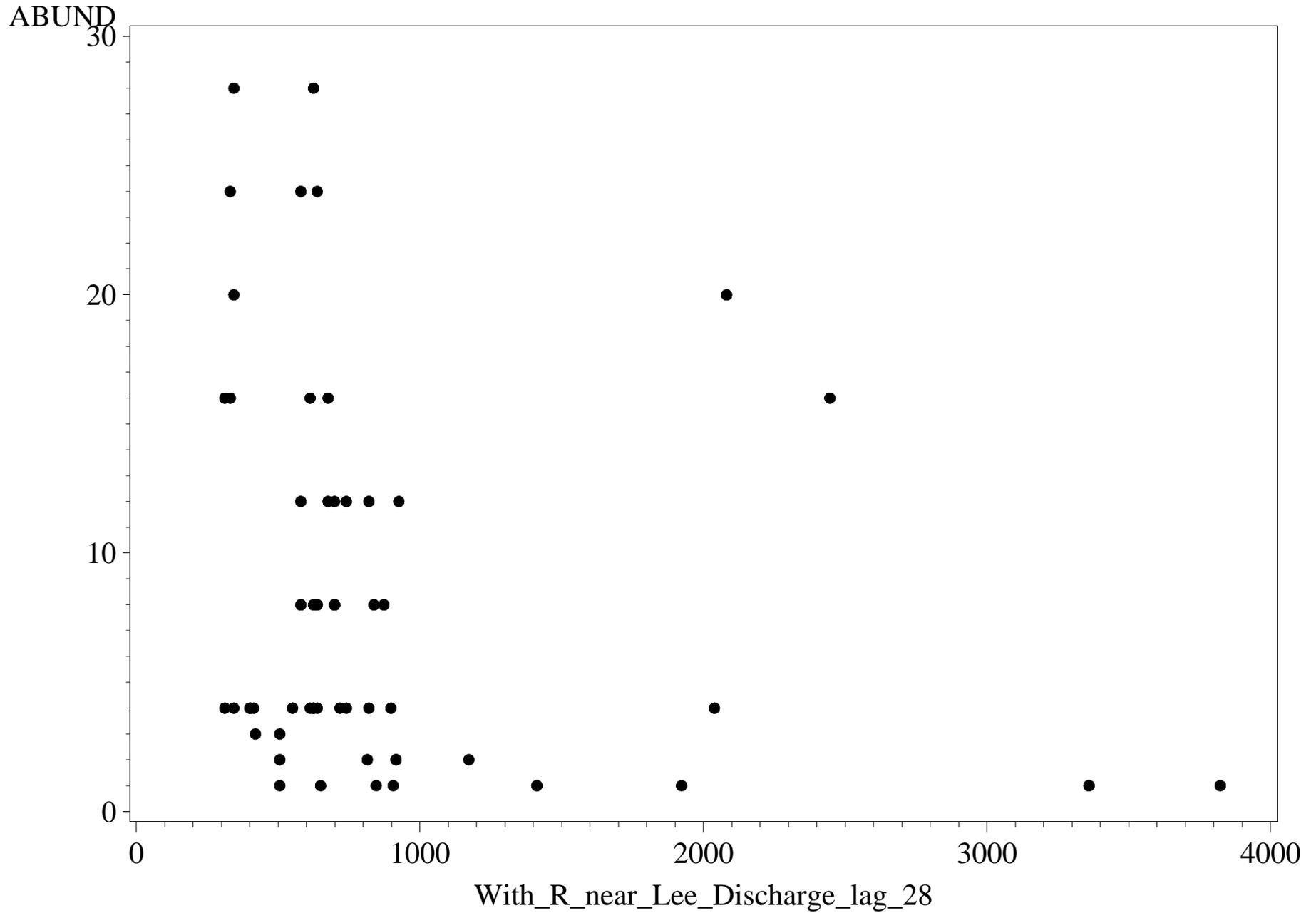
Taxonomic Family vs. 28 Day Lag of Estimated Withlacoochee Flow (at Lee)
family=Philopotamid



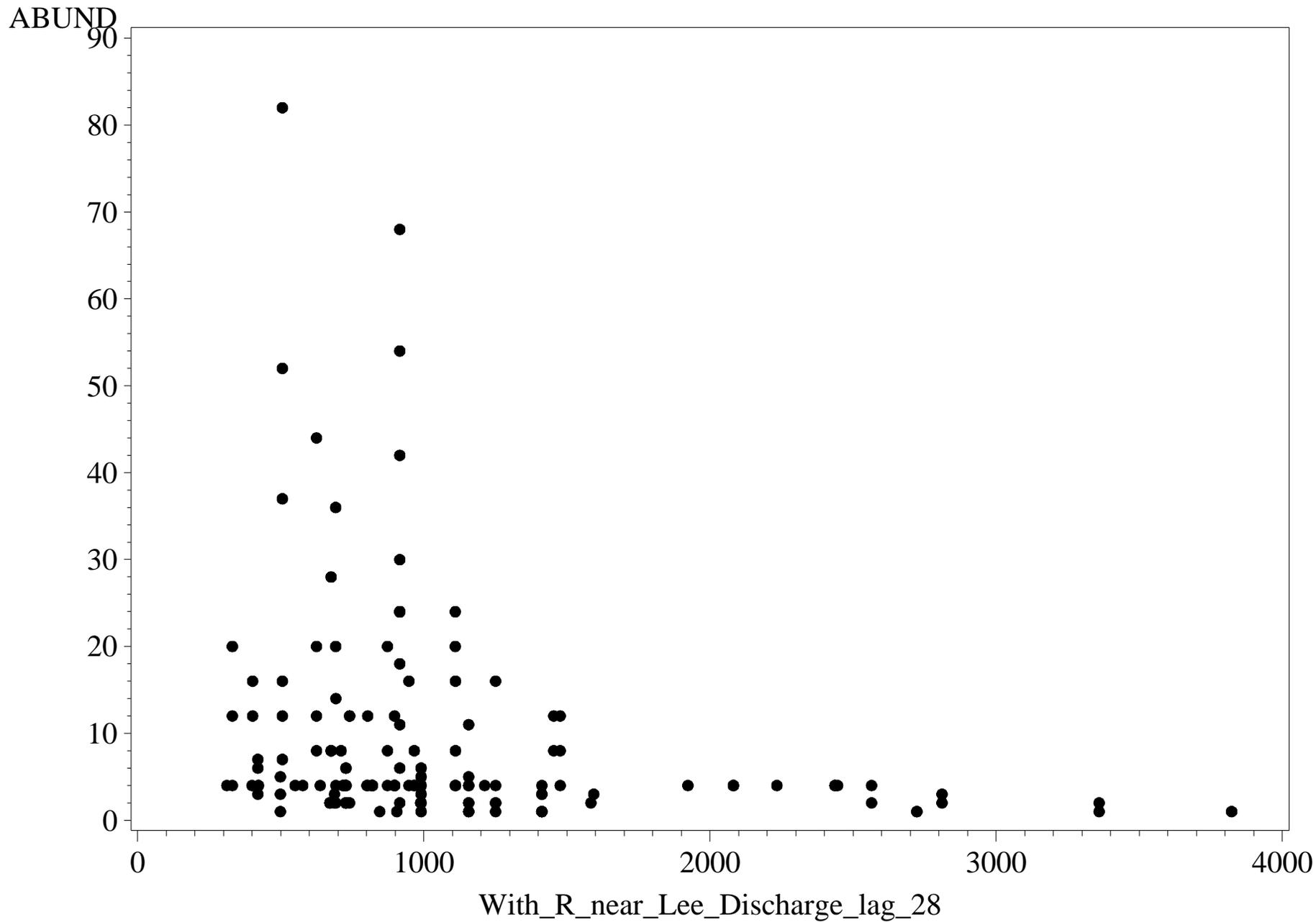
Taxonomic Family vs. 28 Day Lag of Estimated Withlacoochee Flow (at Lee)
family=Physidae



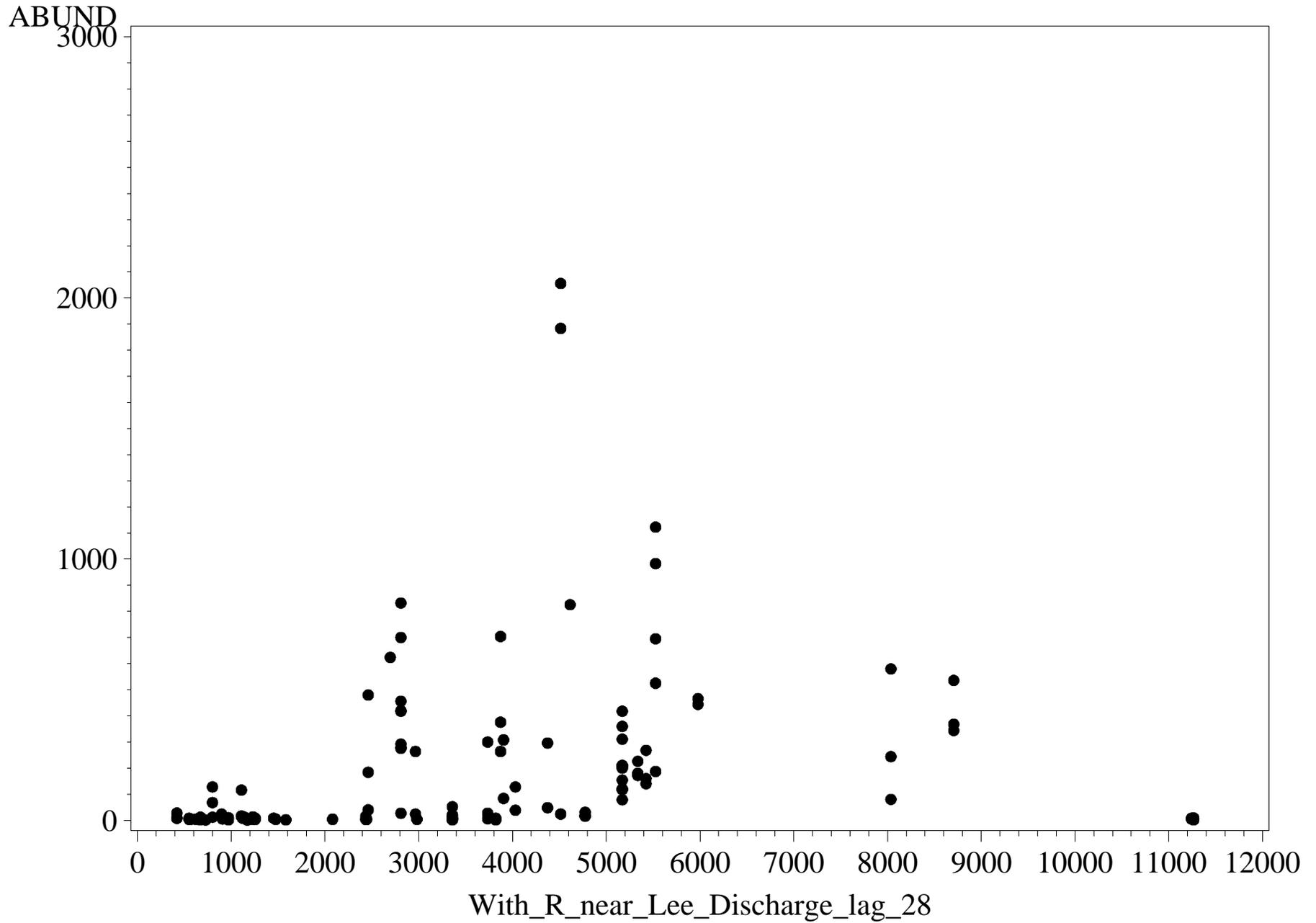
Taxonomic Family vs. 28 Day Lag of Estimated Withlacoochee Flow (at Lee)
family=Planariidae



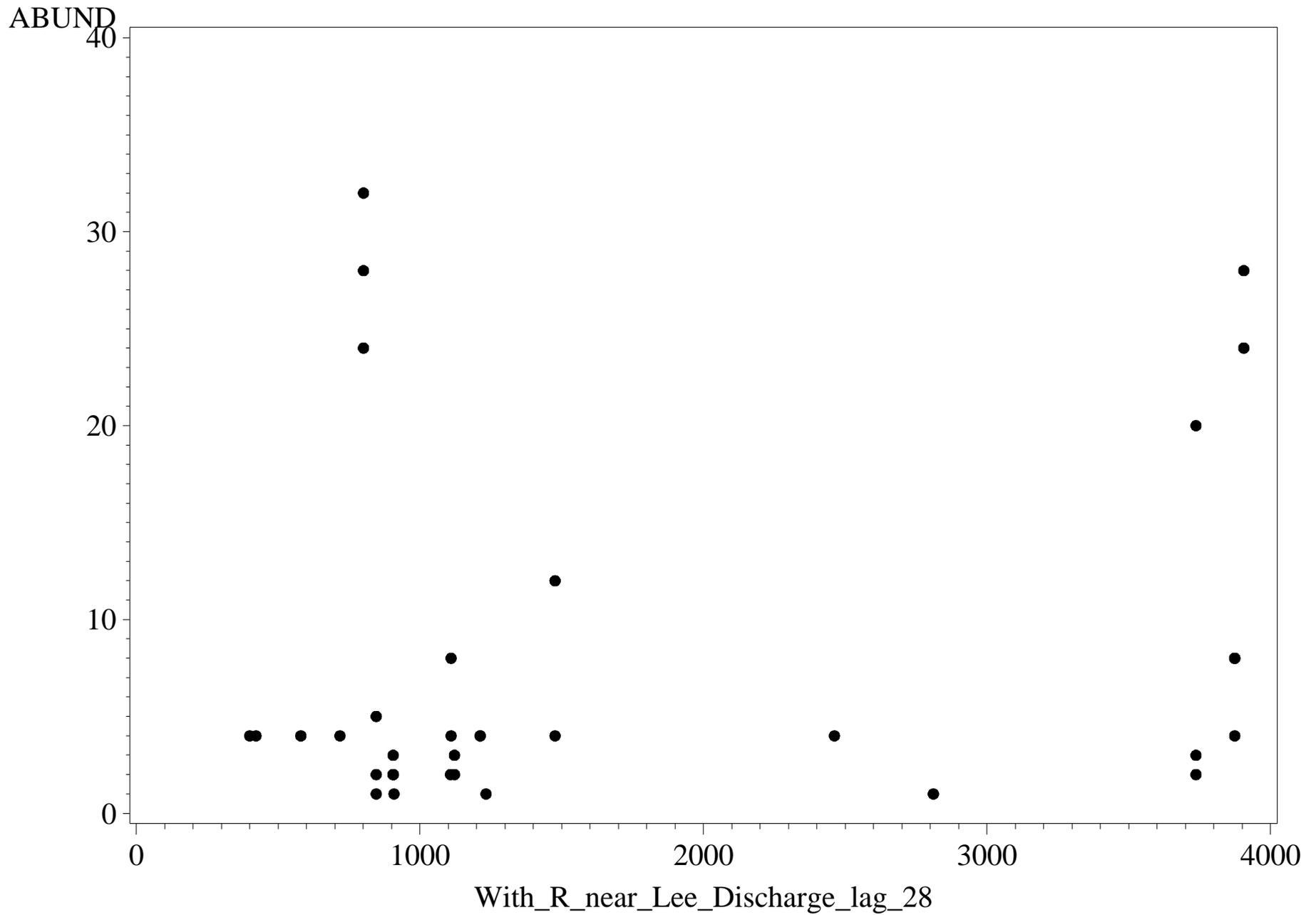
Taxonomic Family vs. 28 Day Lag of Estimated Withlacoochee Flow (at Lee)
family=Polycentropo



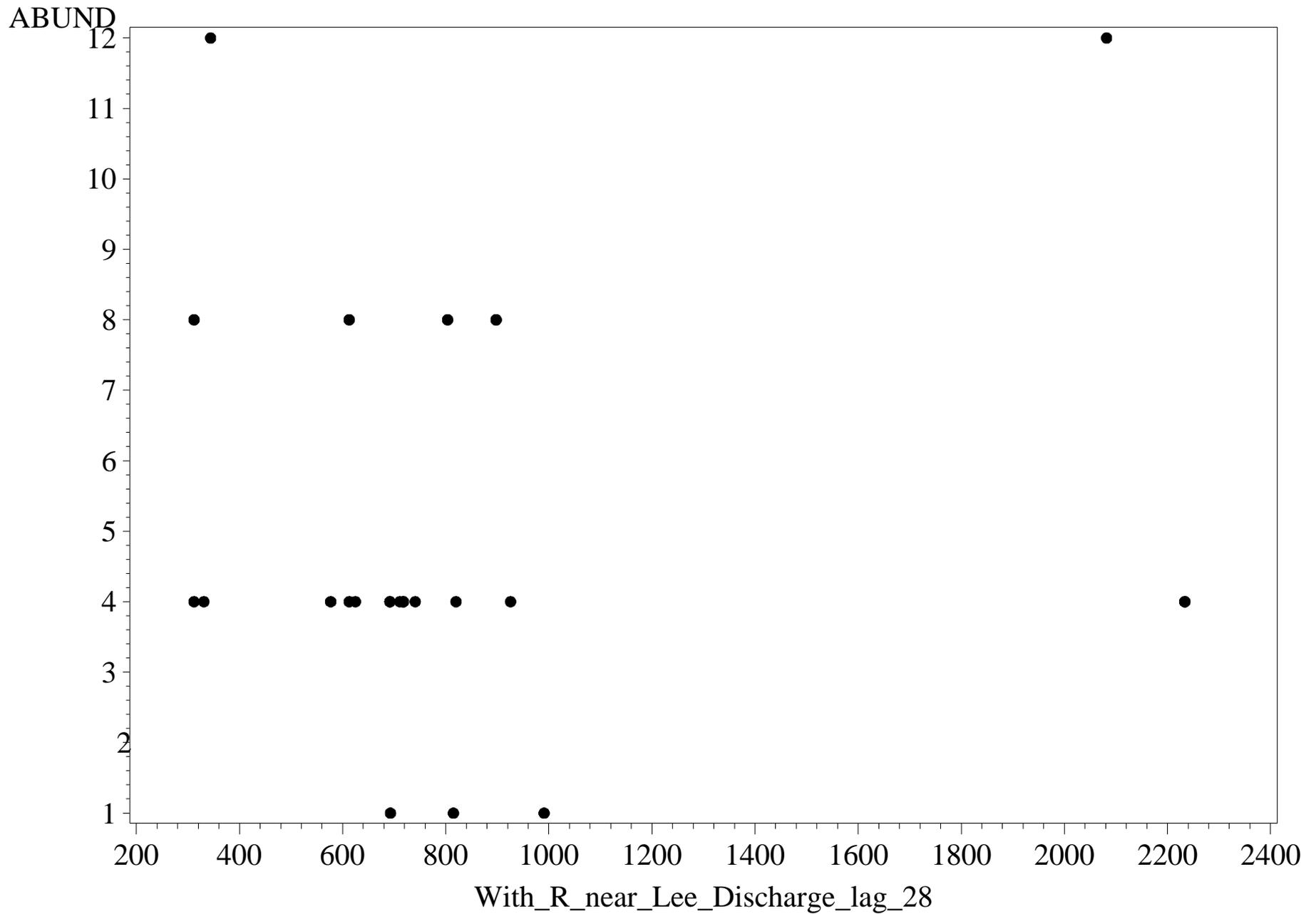
Taxonomic Family vs. 28 Day Lag of Estimated Withlacoochee Flow (at Lee)
family=Simuliidae



Taxonomic Family vs. 28 Day Lag of Estimated Withlacoochee Flow (at Lee)
family=Taeniopteryg



Taxonomic Family vs. 28 Day Lag of Estimated Withlacoochee Flow (at Lee)
family=Tetrastemmat

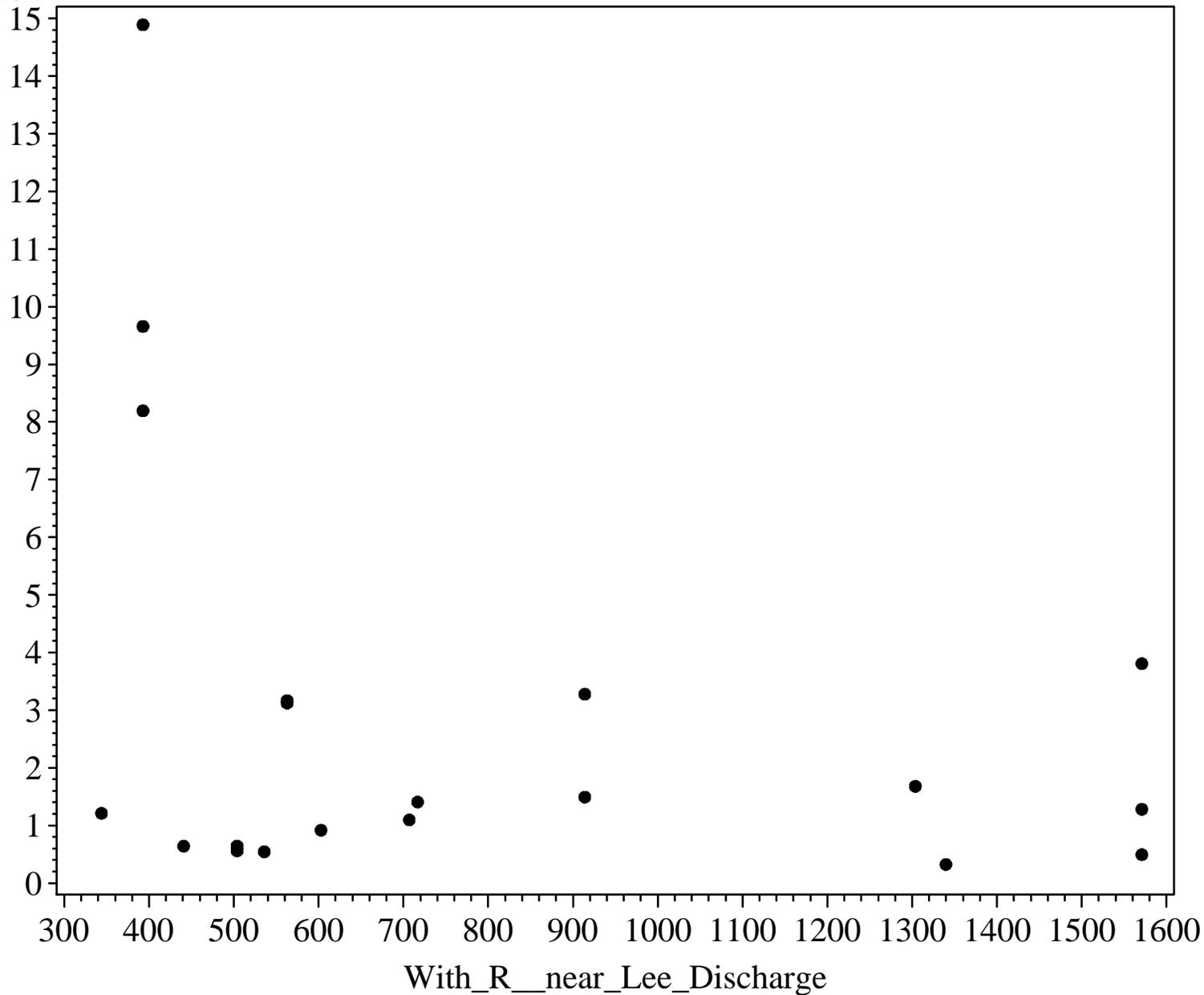


APPENDIX C3

Percent Composition of Taxonomic Families vs. Estimated Withlacoochee Flow (at Lee)

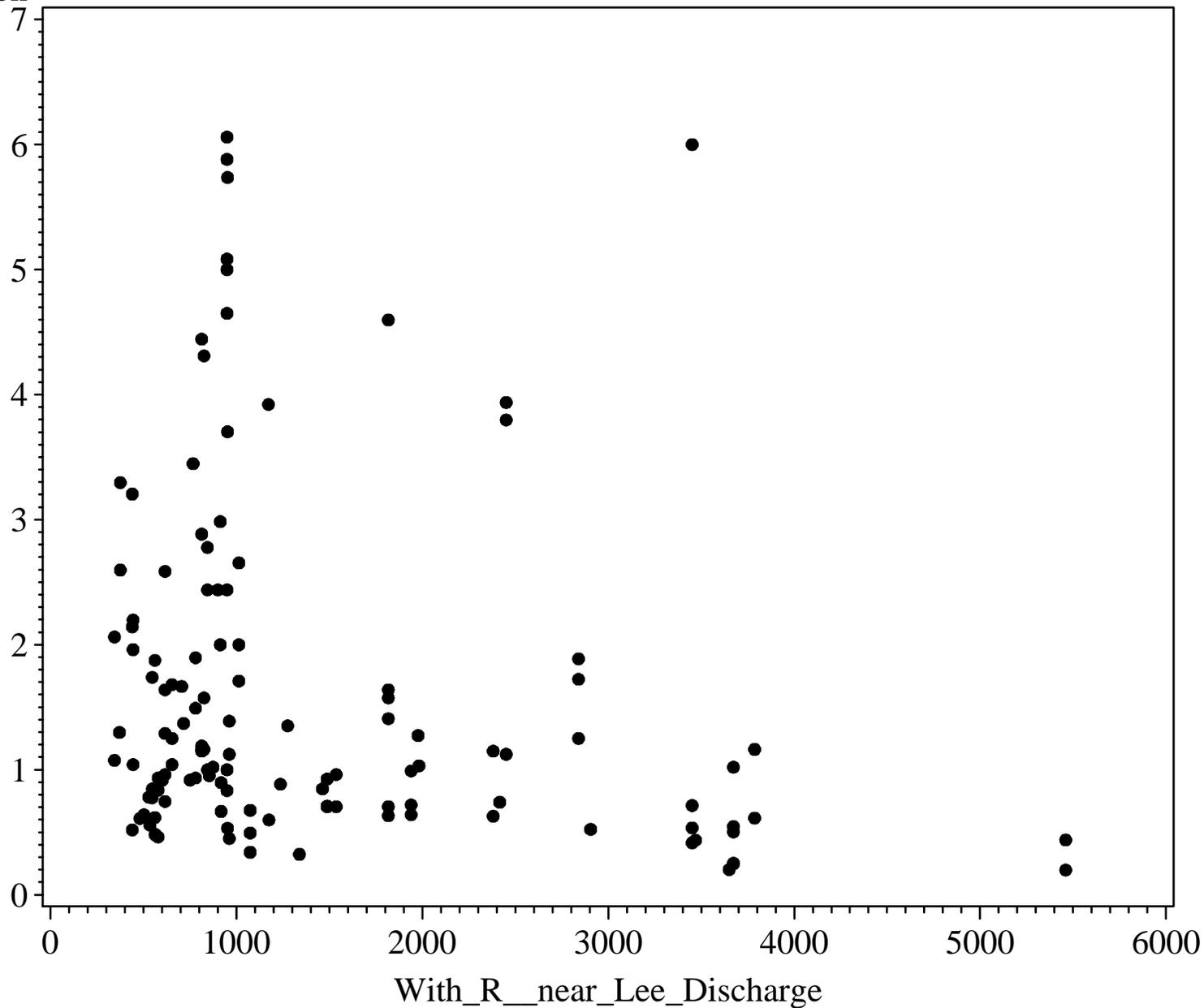
family=Aeolosomatid

Percent Composition

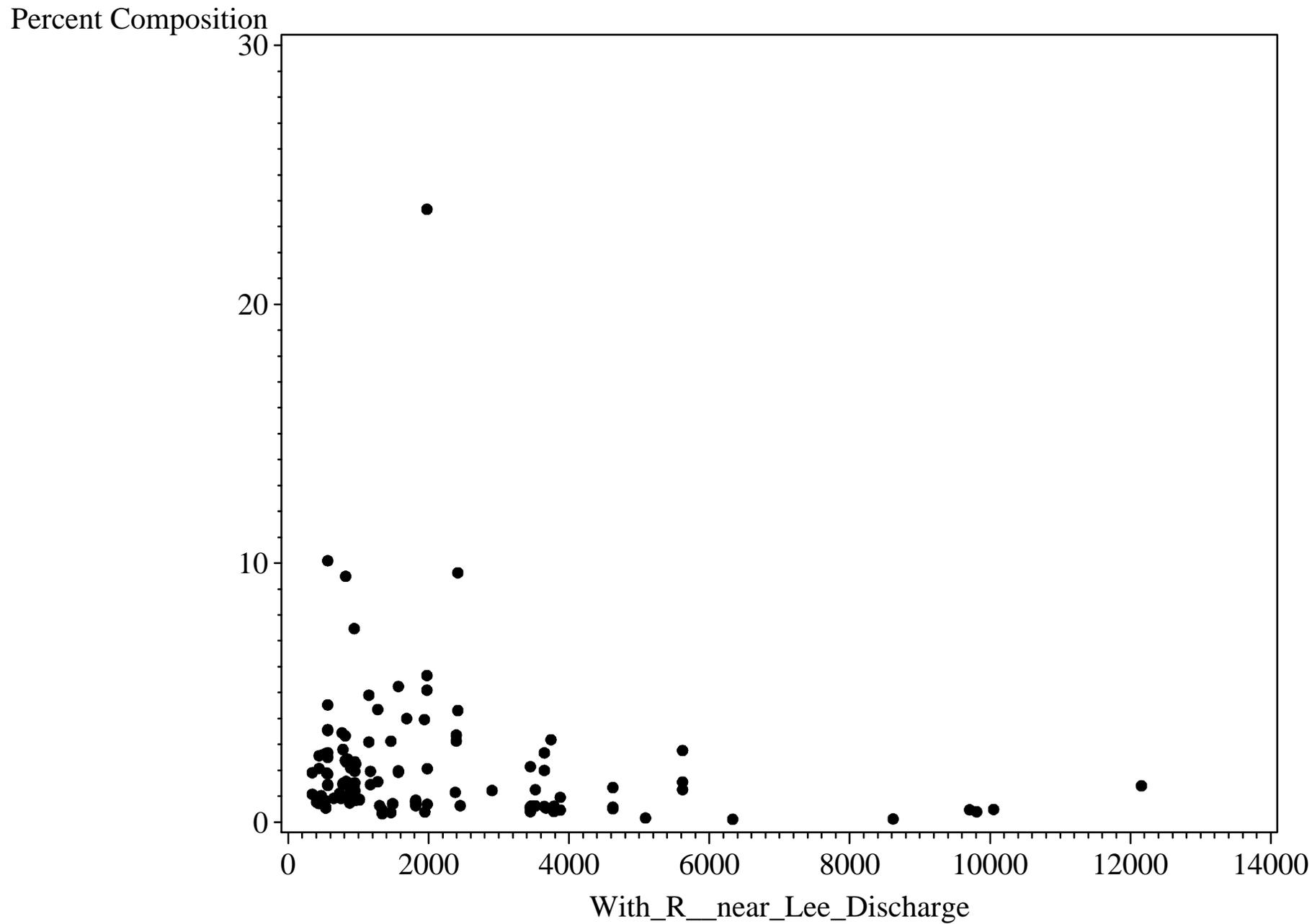


Percent Composition of Taxonomic Families vs. Estimated Withlacoochee Flow (at Lee)
family=Ancylidae

Percent Composition

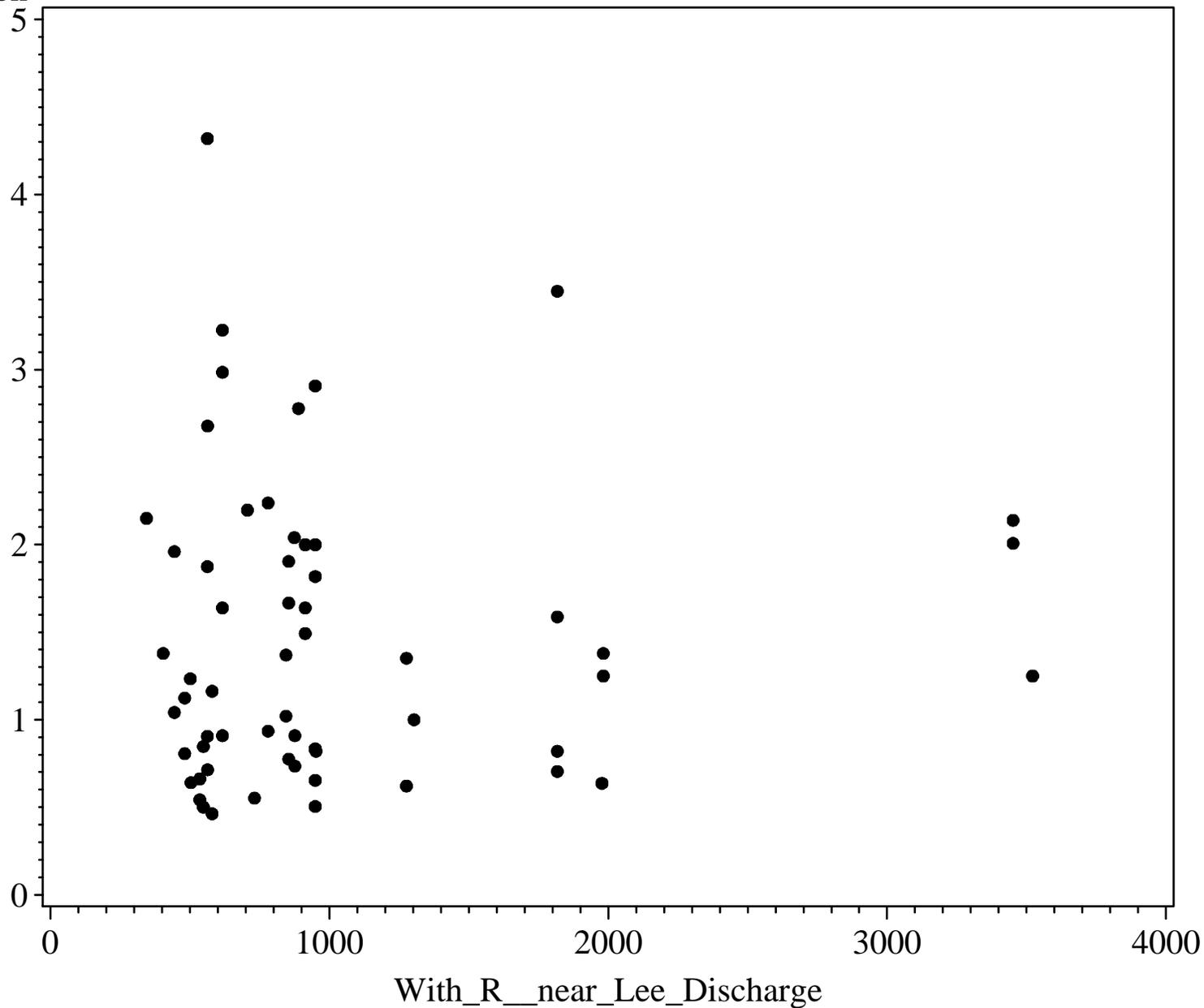


Percent Composition of Taxonomic Families vs. Estimated Withlacoochee Flow (at Lee)
family=Baetidae

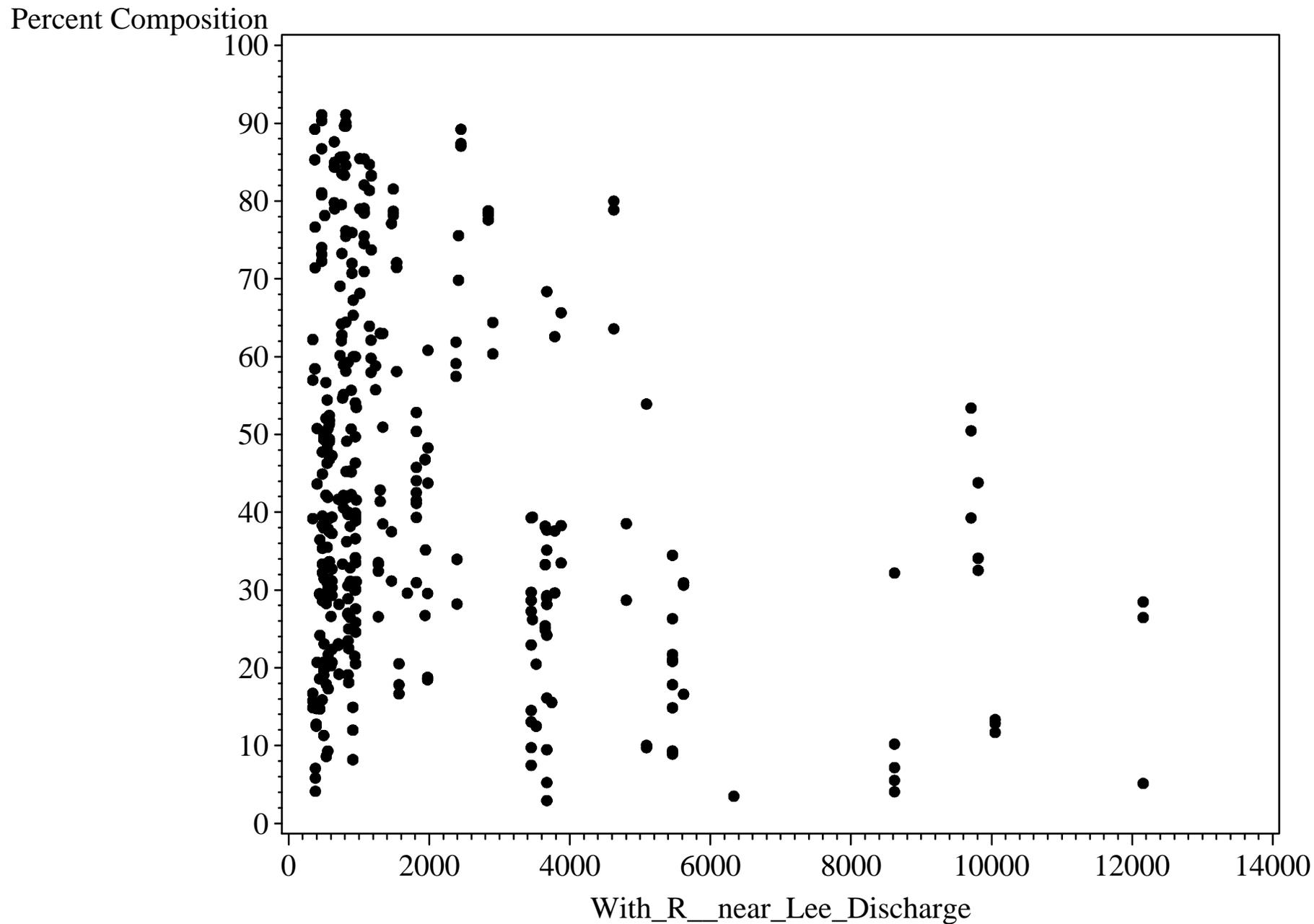


Percent Composition of Taxonomic Families vs. Estimated Withlacoochee Flow (at Lee)
family=Ceratopogoni

Percent Composition

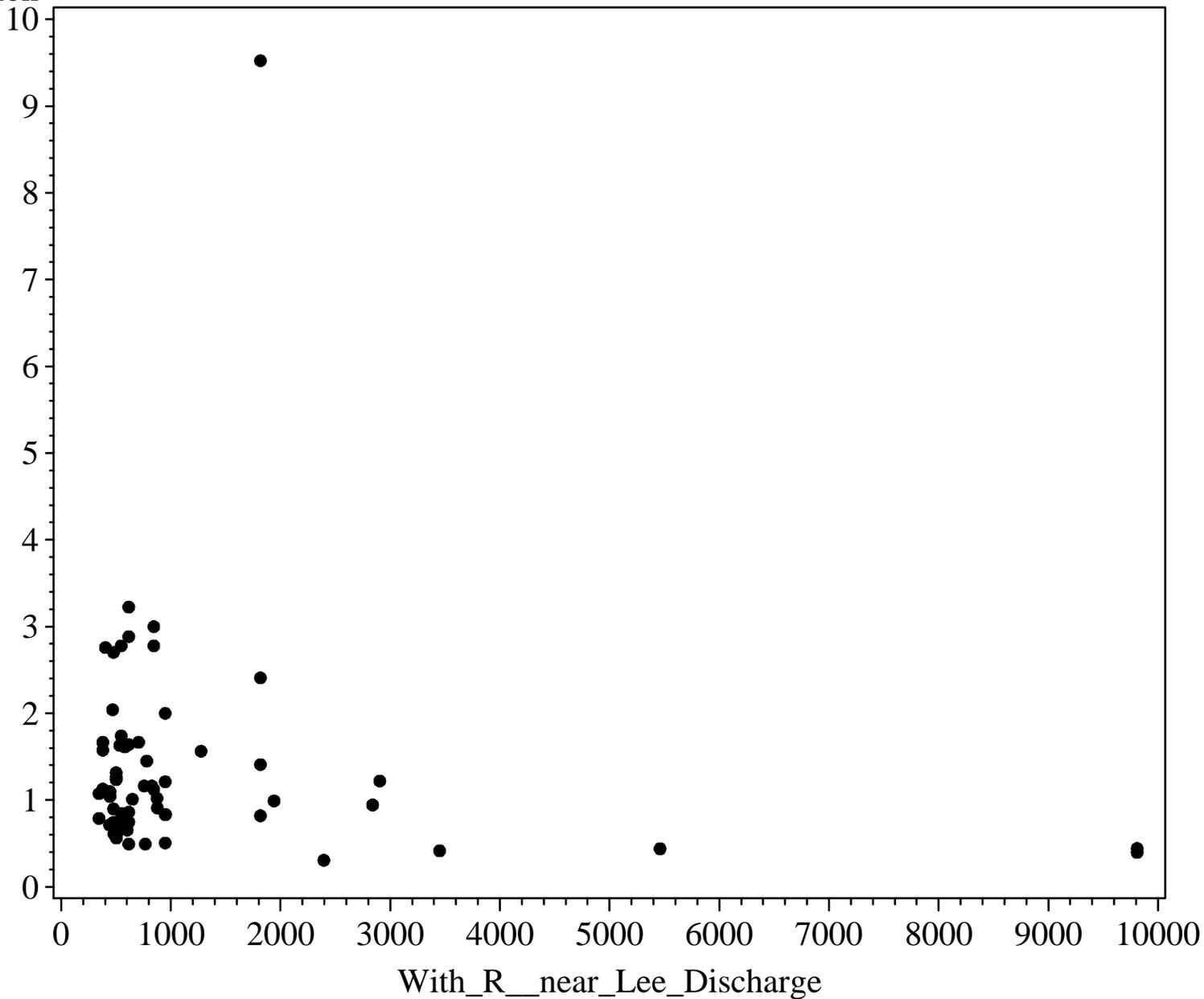


Percent Composition of Taxonomic Families vs. Estimated Withlacoochee Flow (at Lee)
family=Chironomidae



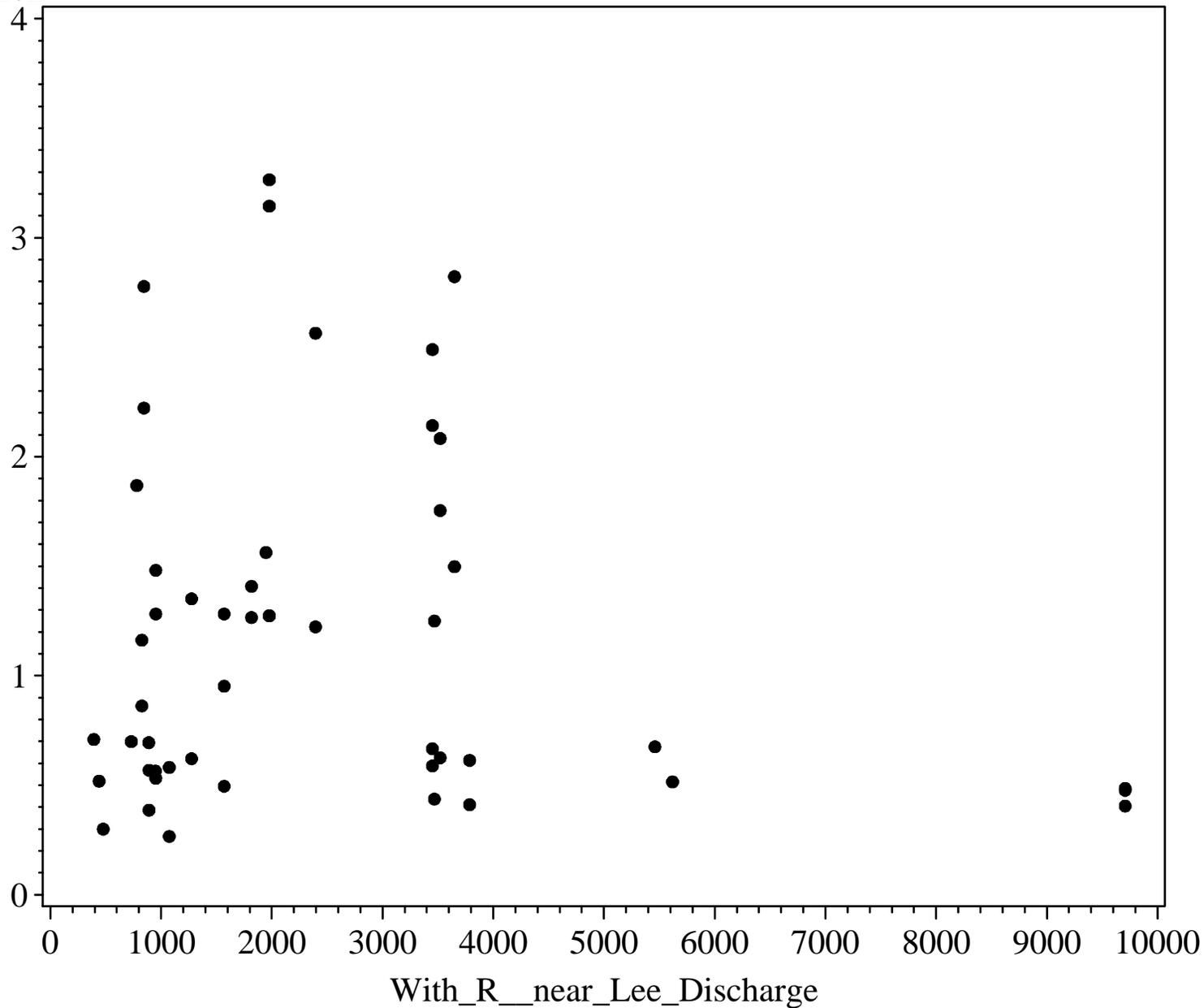
Percent Composition of Taxonomic Families vs. Estimated Withlacoochee Flow (at Lee)
family=Coenagrionid

Percent Composition



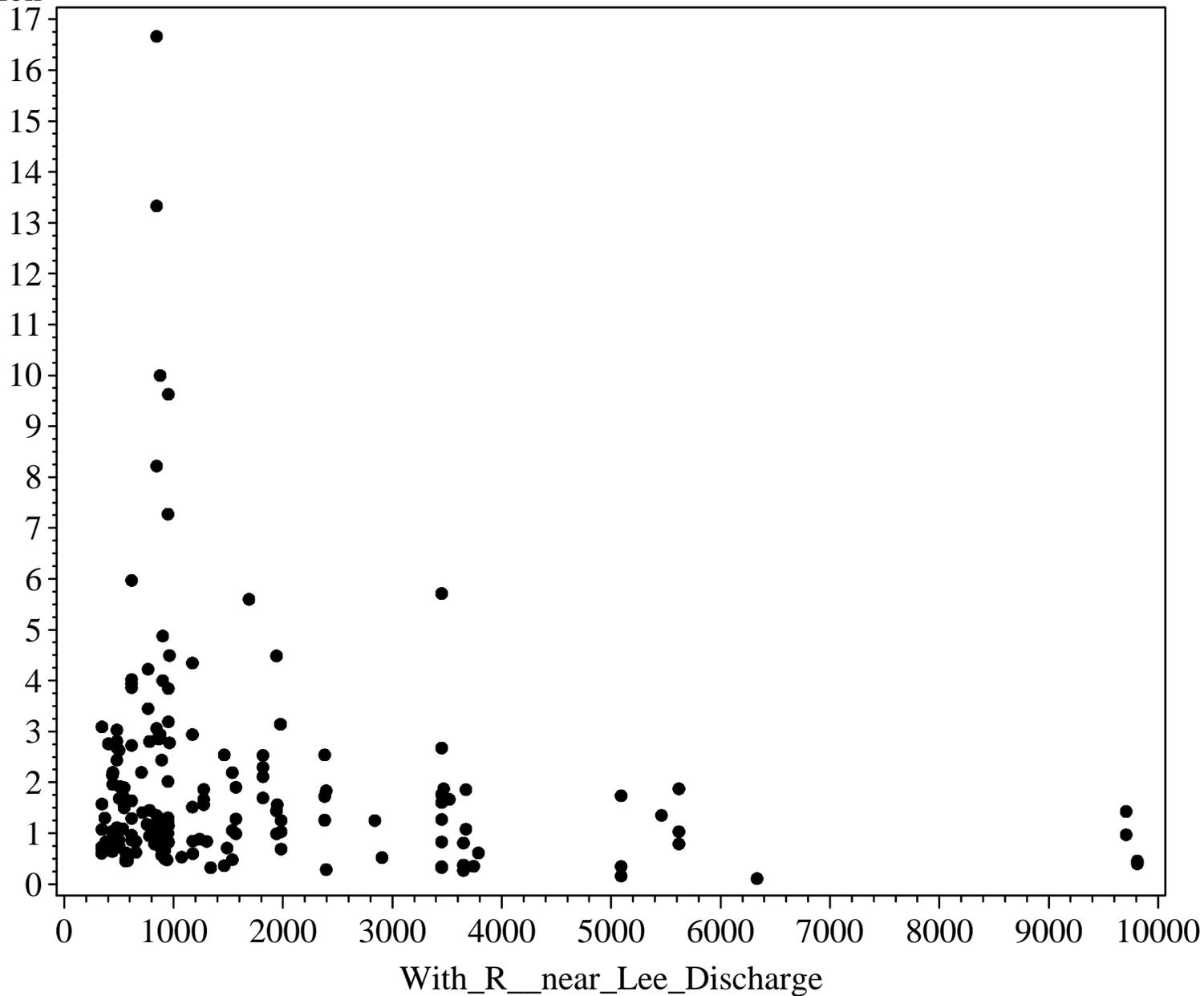
Percent Composition of Taxonomic Families vs. Estimated Withlacoochee Flow (at Lee)
family=Corydalidae

Percent Composition

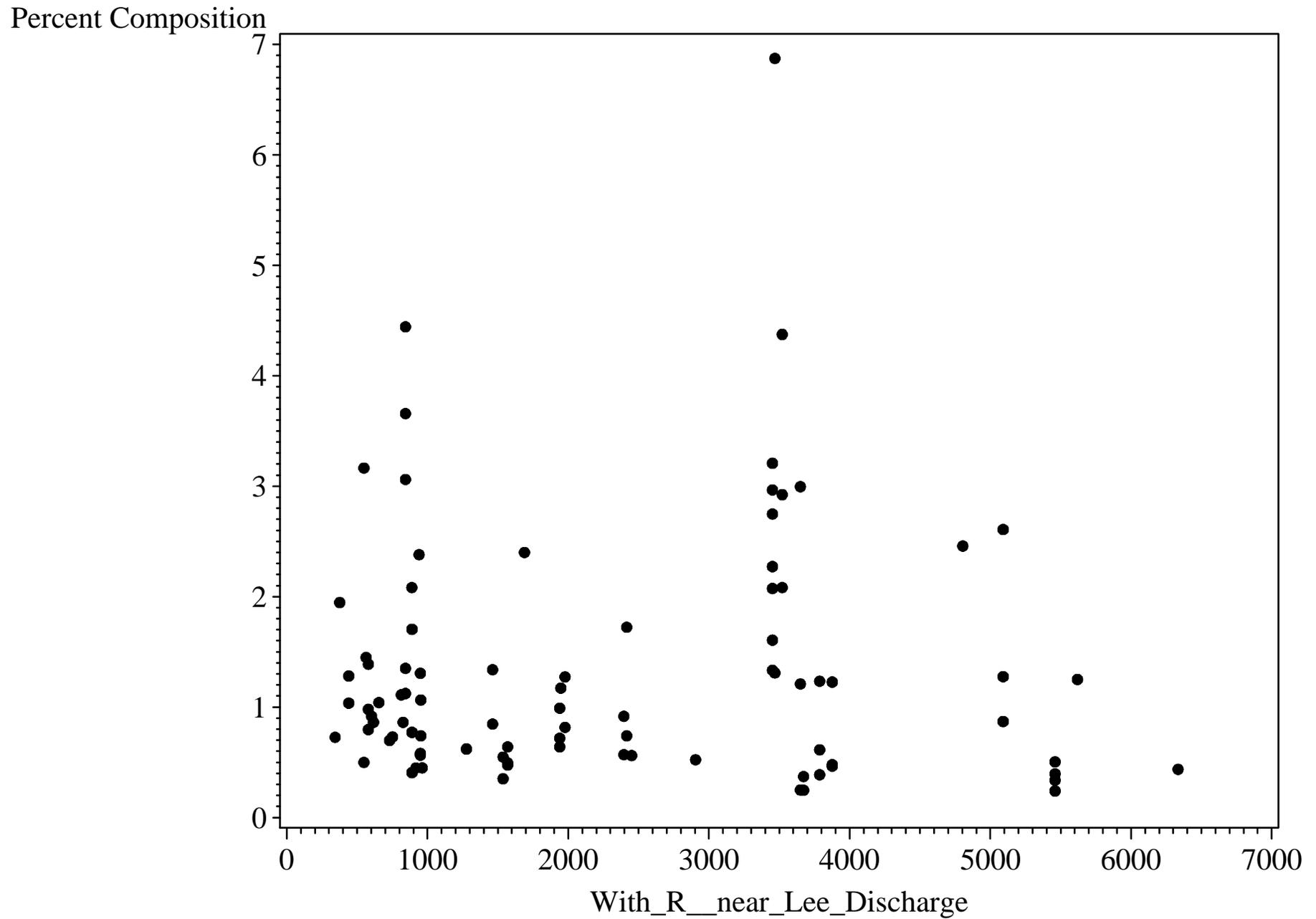


Percent Composition of Taxonomic Families vs. Estimated Withlacoochee Flow (at Lee)
family=Elmidae

Percent Composition



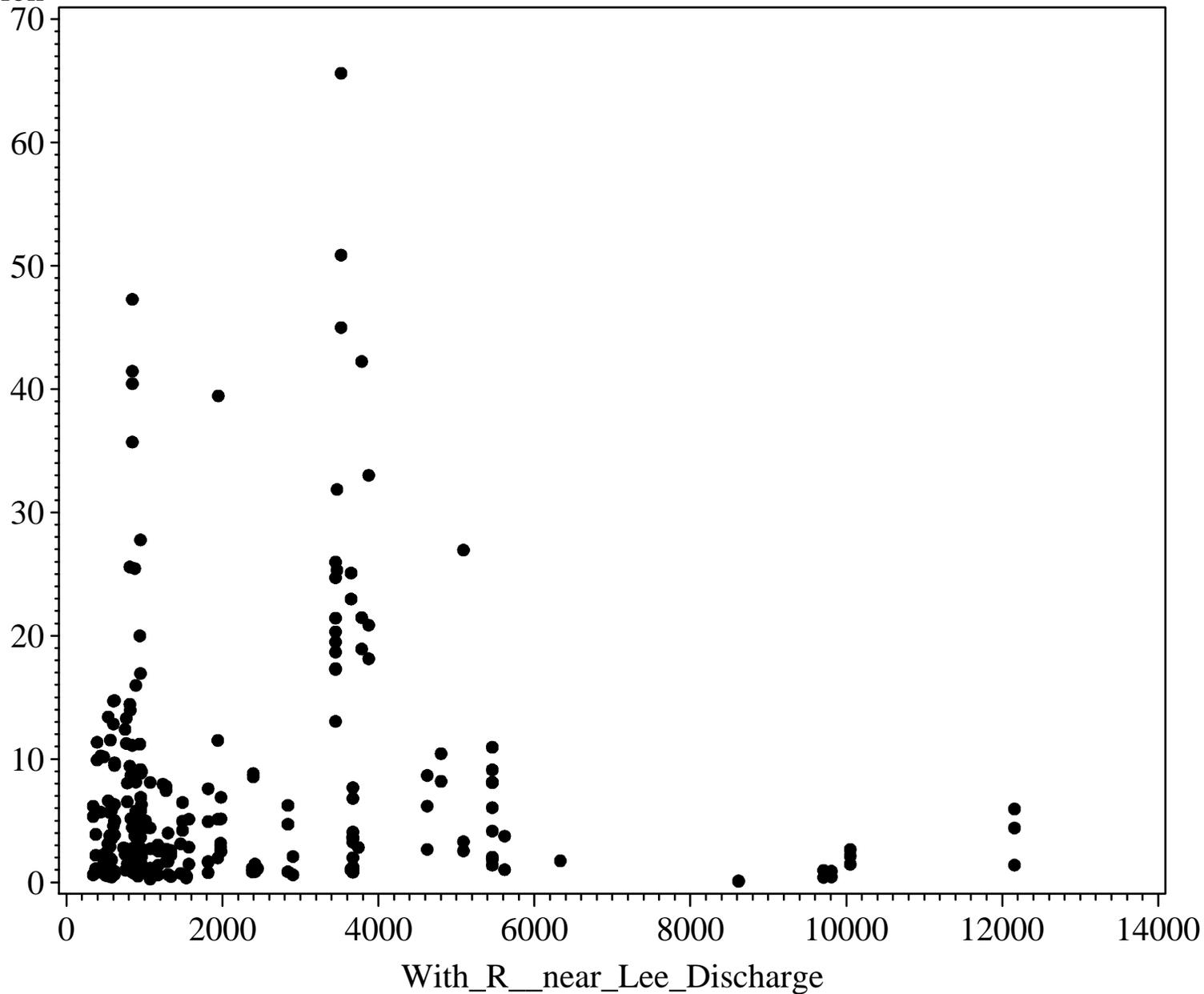
Percent Composition of Taxonomic Families vs. Estimated Withlacoochee Flow (at Lee)
family=Empididae



Percent Composition of Taxonomic Families vs. Estimated Withlacoochee Flow (at Lee)

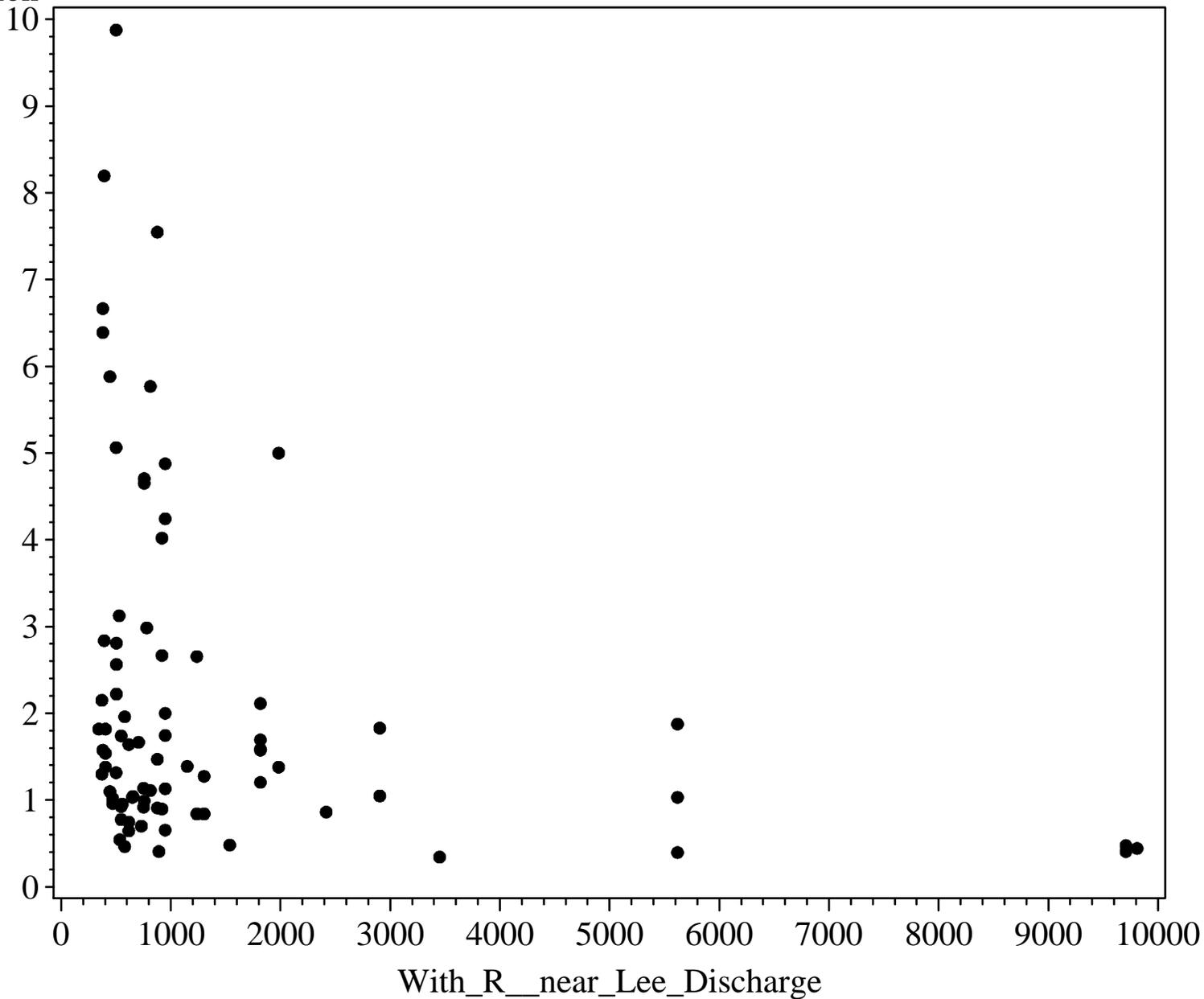
family=Heptageniida

Percent Composition



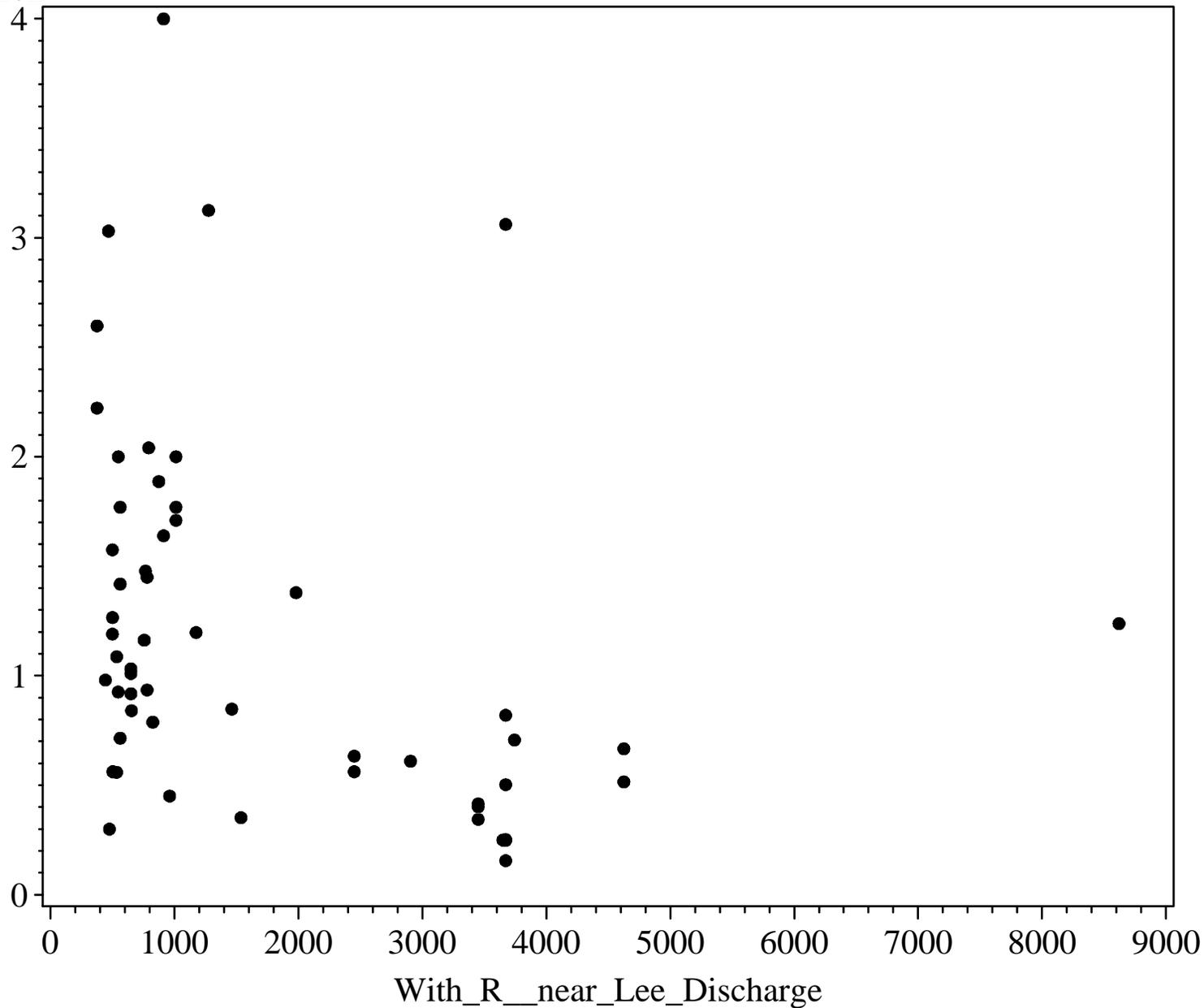
Percent Composition of Taxonomic Families vs. Estimated Withlacoochee Flow (at Lee)
family=Hyaletellidae

Percent Composition

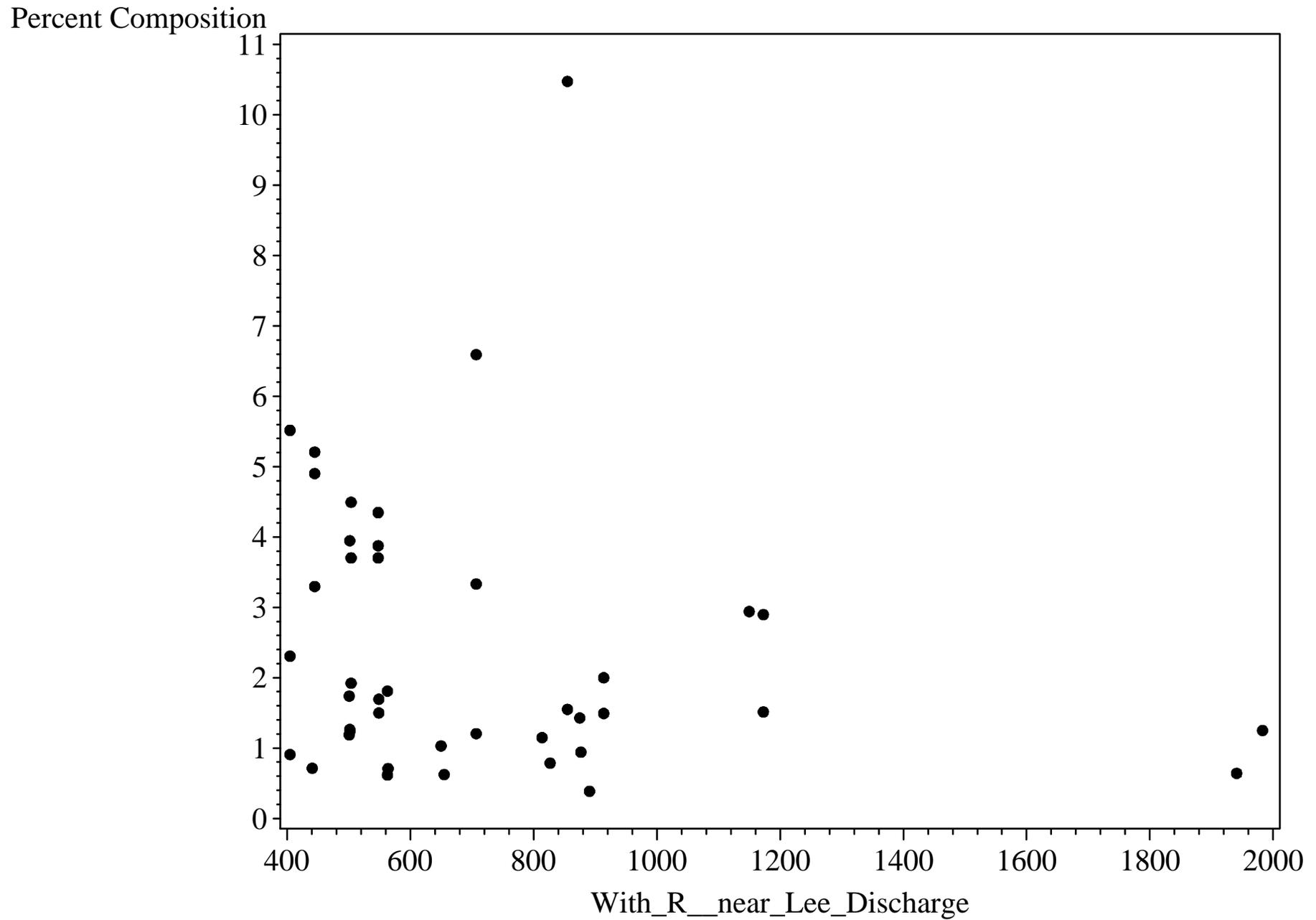


Percent Composition of Taxonomic Families vs. Estimated Withlacoochee Flow (at Lee)
family=Hydridae

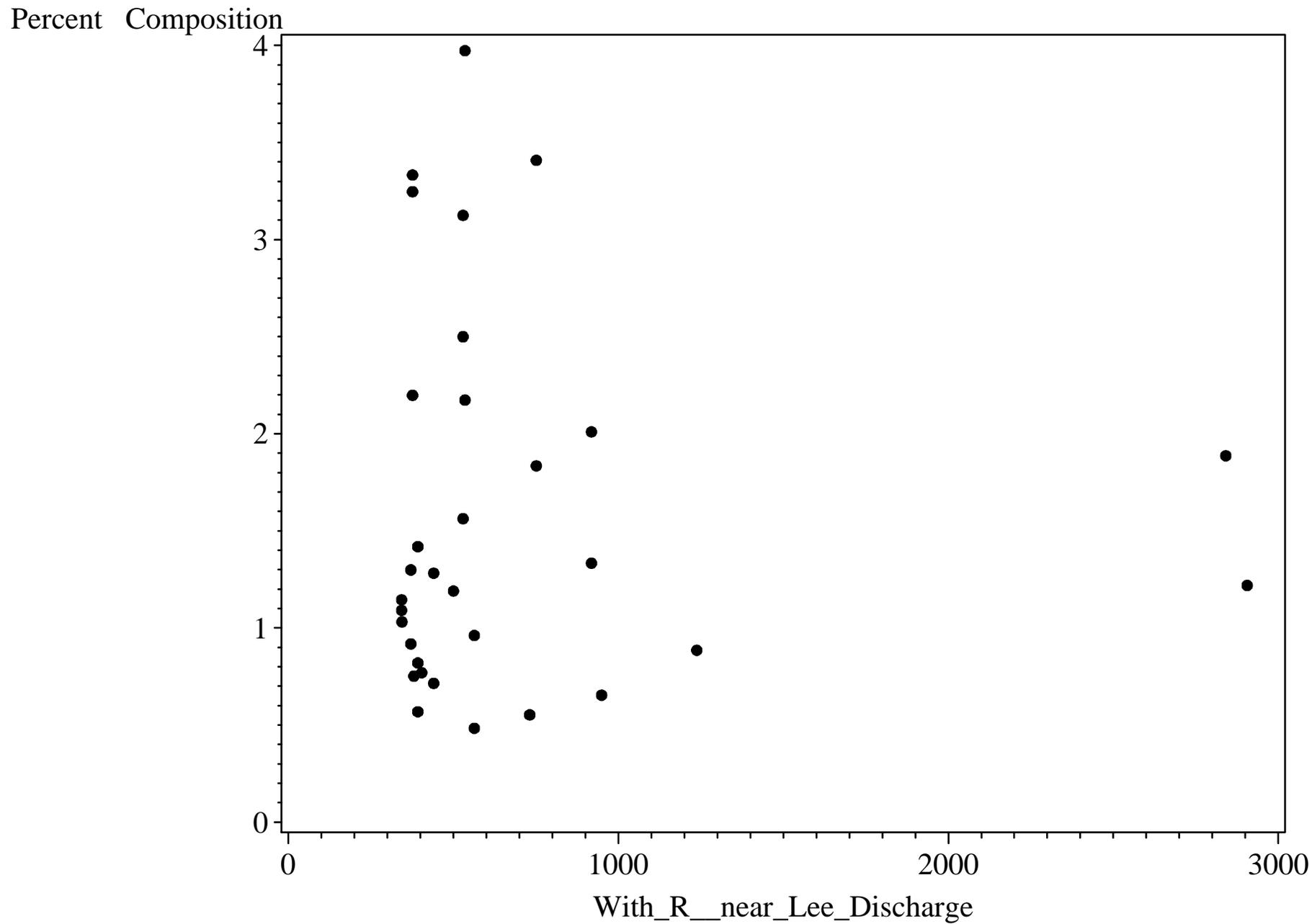
Percent Composition



Percent Composition of Taxonomic Families vs. Estimated Withlacoochee Flow (at Lee)
family=Hydrobiidae



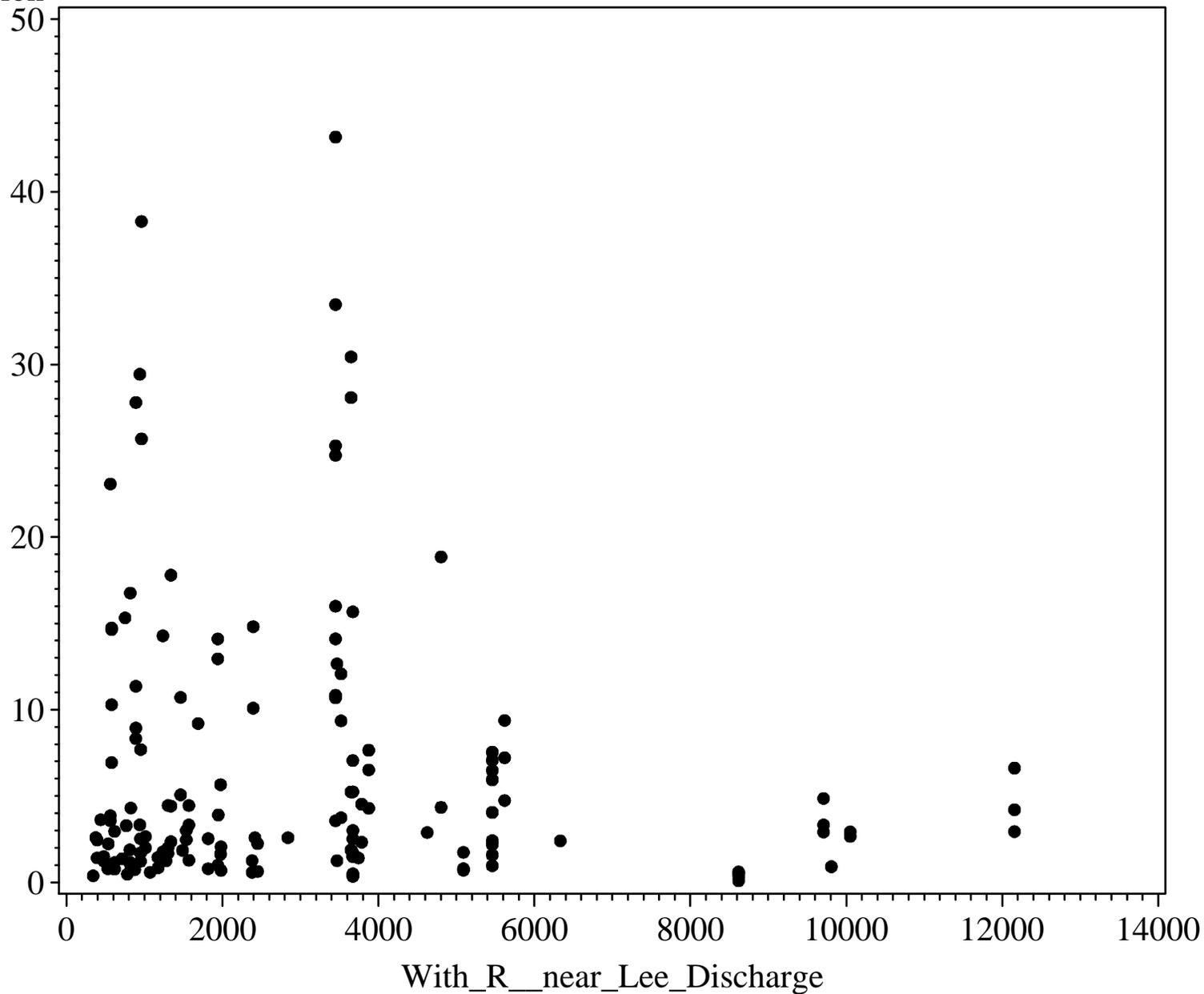
Percent Composition of Taxonomic Families vs. Estimated Withlacoochee Flow (at Lee)
family=Hydrodromida



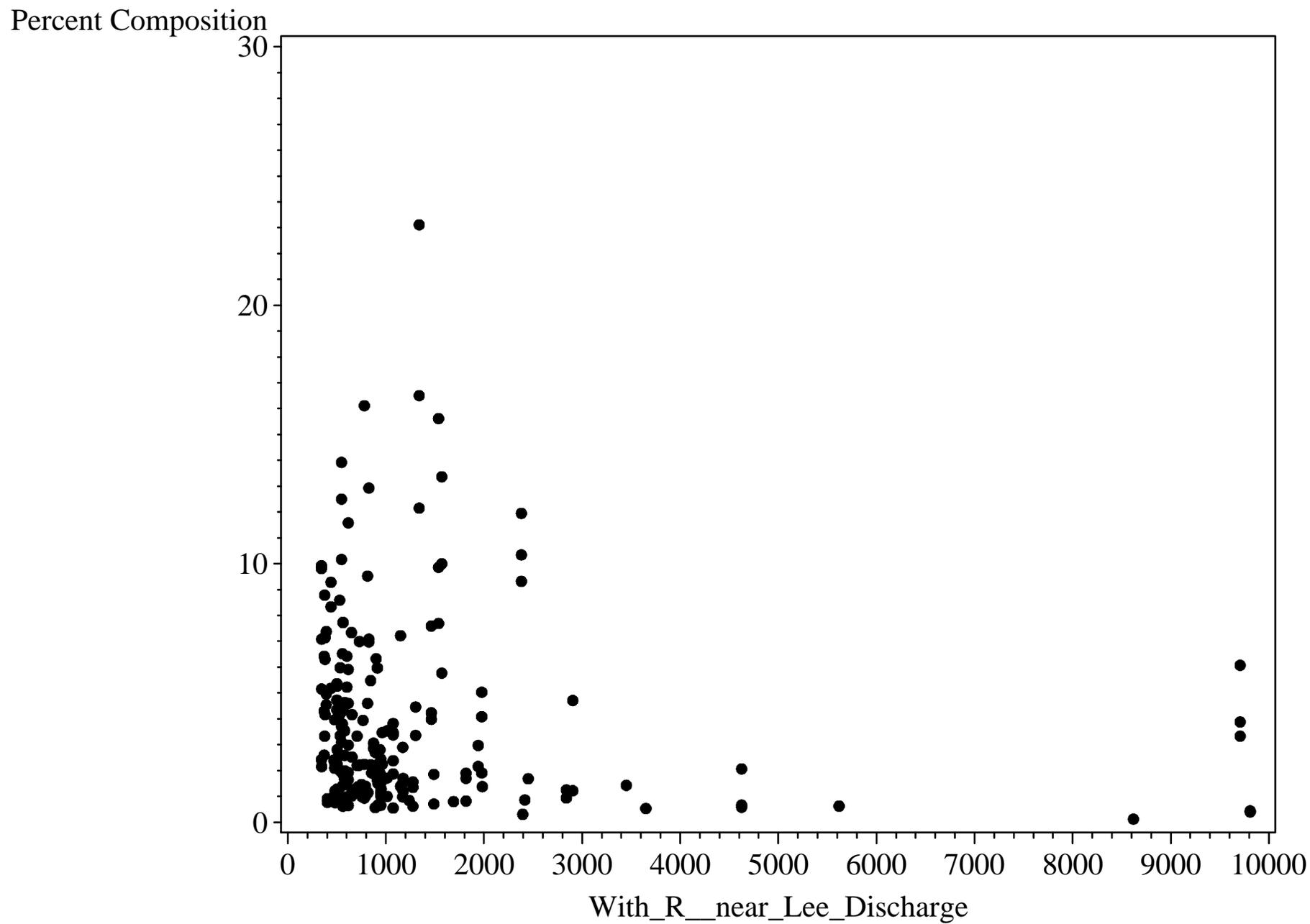
Percent Composition of Taxonomic Families vs. Estimated Withlacoochee Flow (at Lee)

family=Hydropsychid

Percent Composition

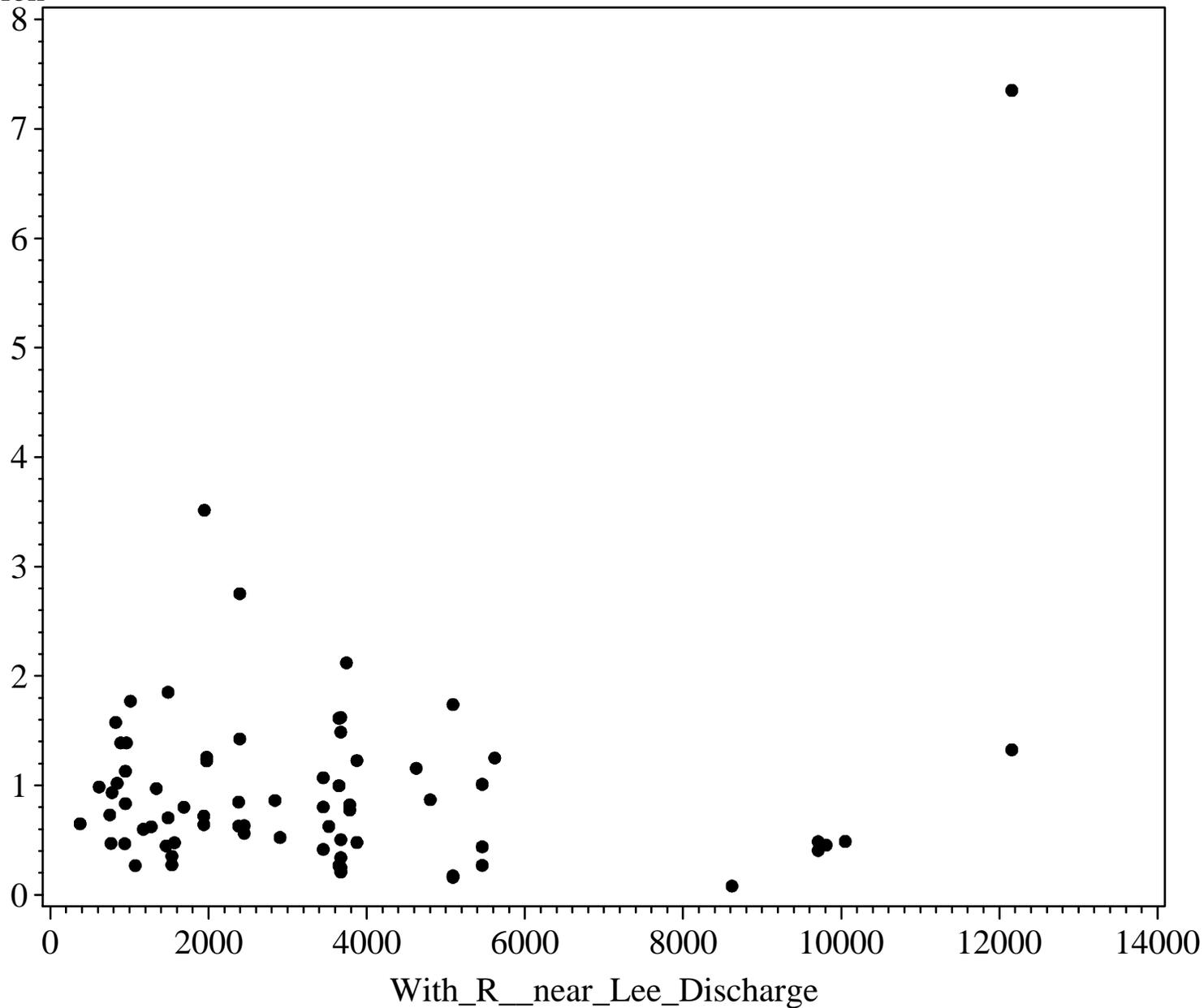


Percent Composition of Taxonomic Families vs. Estimated Withlacoochee Flow (at Lee)
family=Hydroptilida

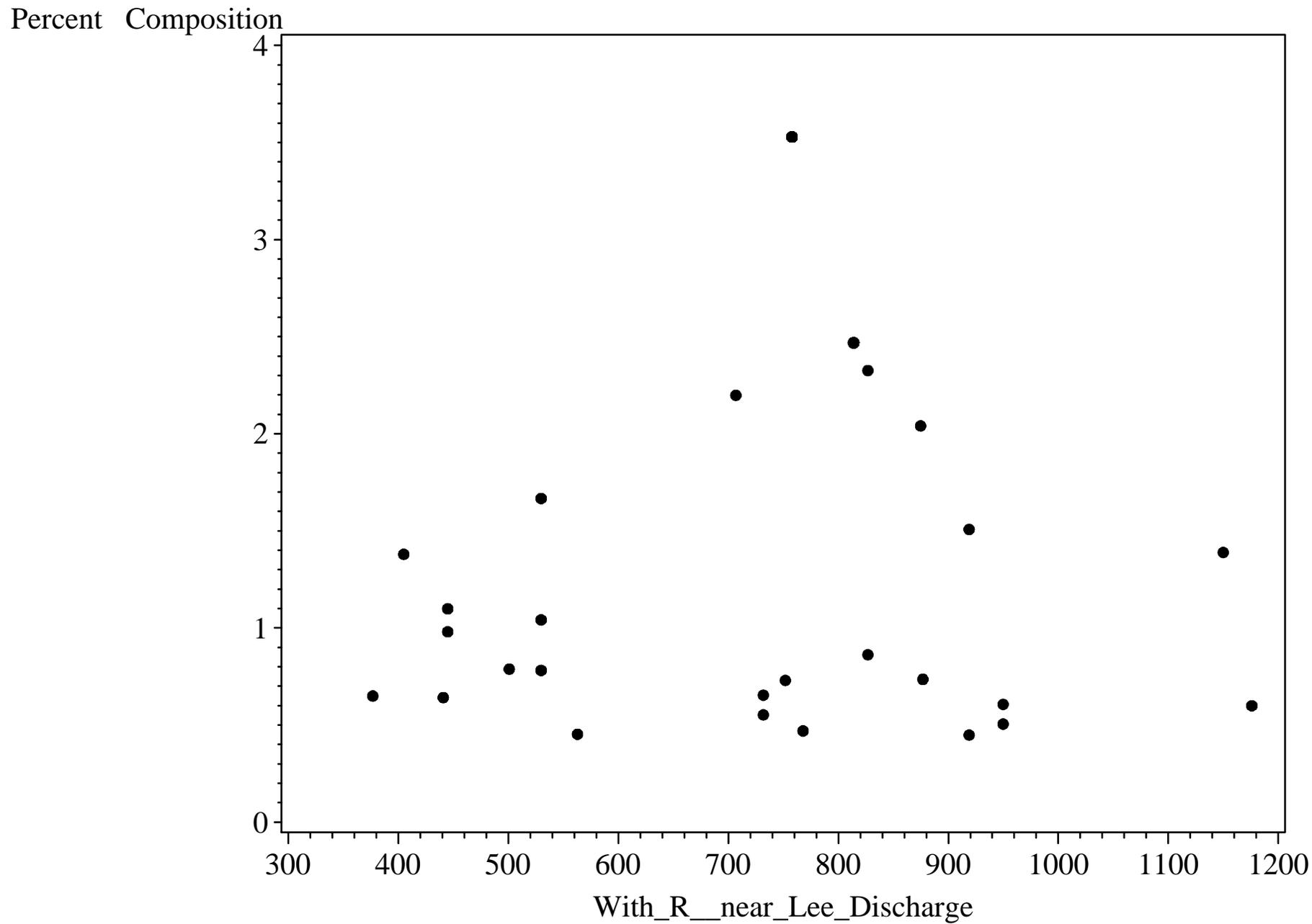


Percent Composition of Taxonomic Families vs. Estimated Withlacoochee Flow (at Lee)
family=Isonychiidae

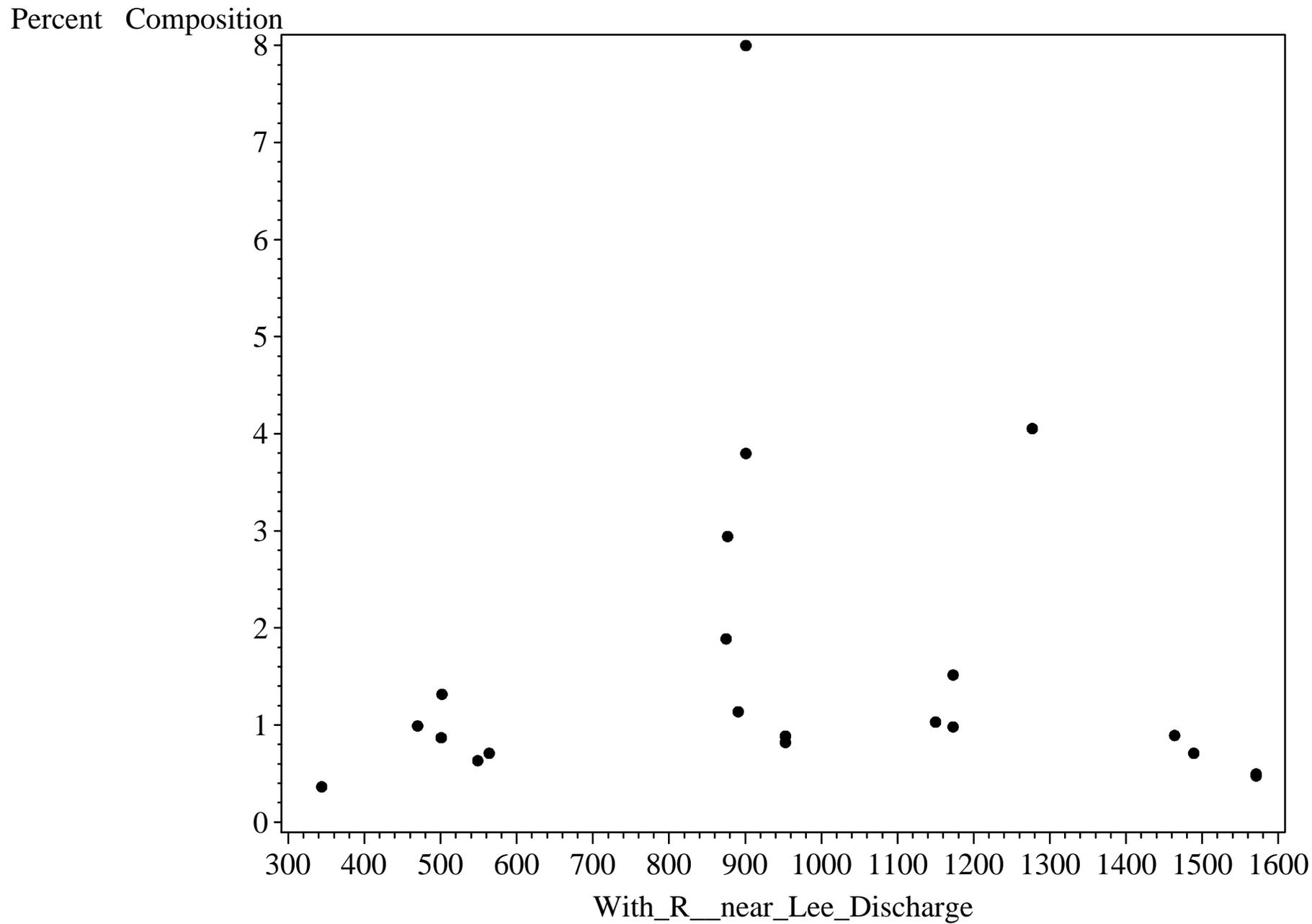
Percent Composition



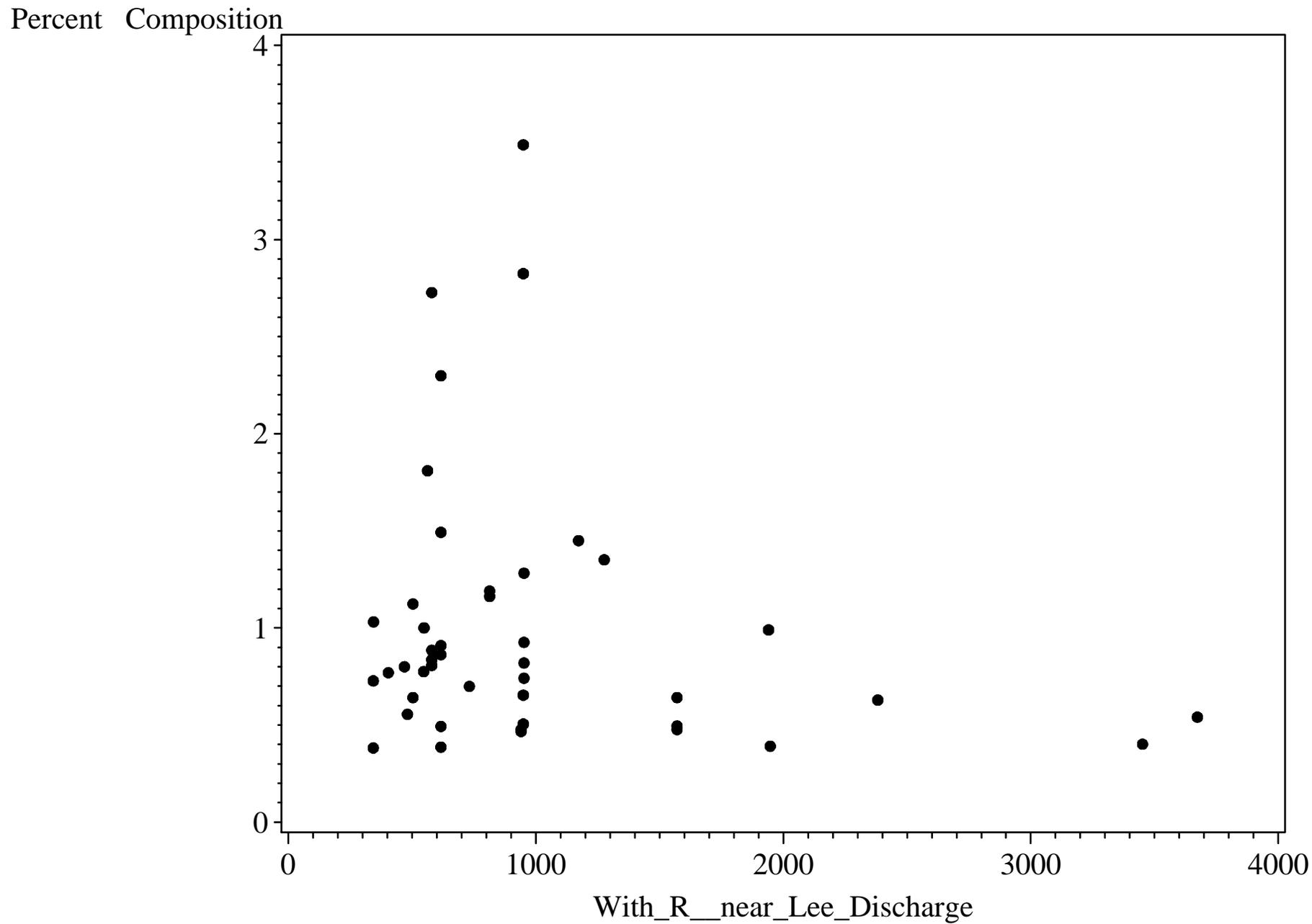
Percent Composition of Taxonomic Families vs. Estimated Withlacoochee Flow (at Lee)
family=Isotomidae



Percent Composition of Taxonomic Families vs. Estimated Withlacoochee Flow (at Lee)
family=Lebertiidae

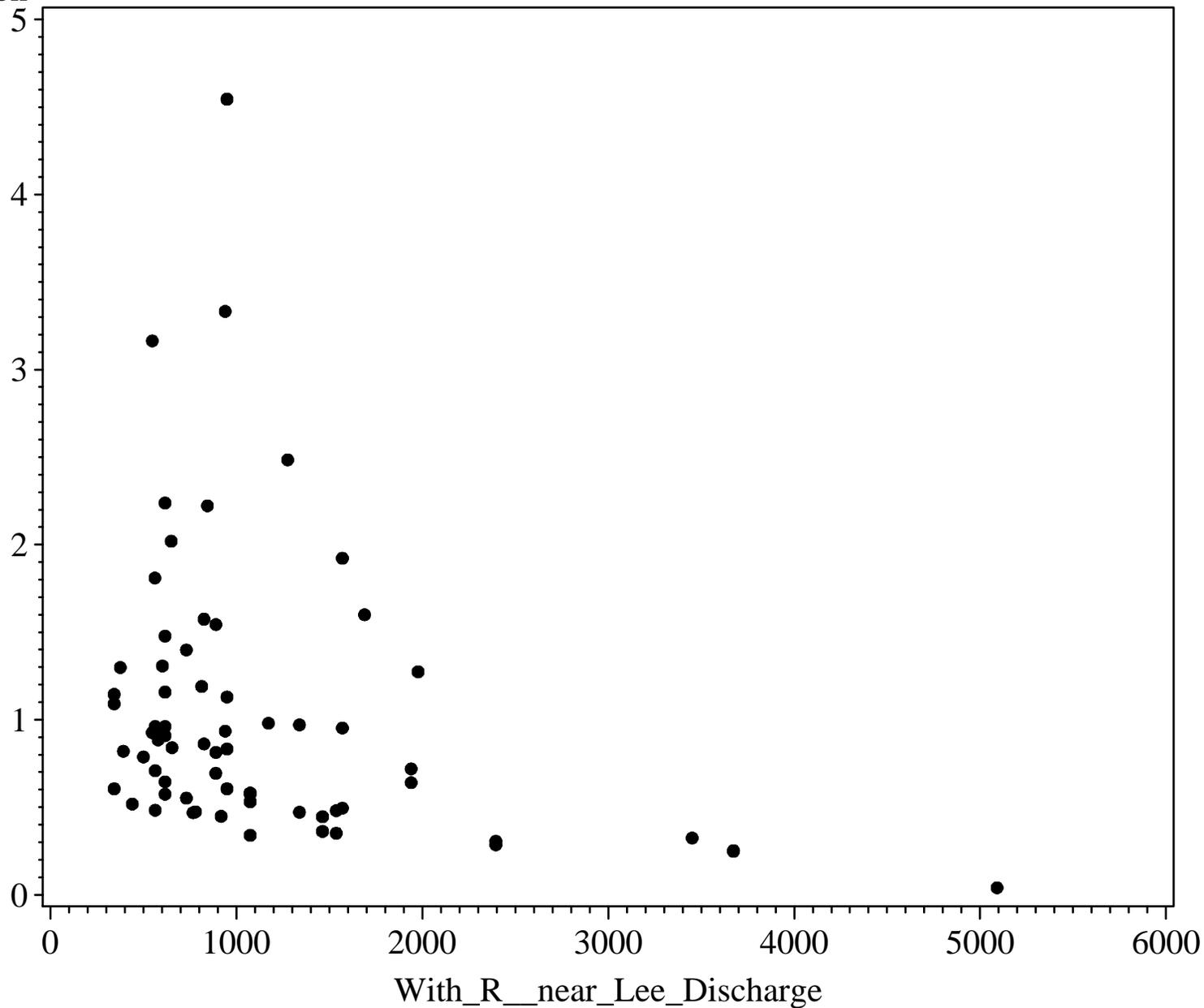


Percent Composition of Taxonomic Families vs. Estimated Withlacoochee Flow (at Lee)
family=Lectocerinae

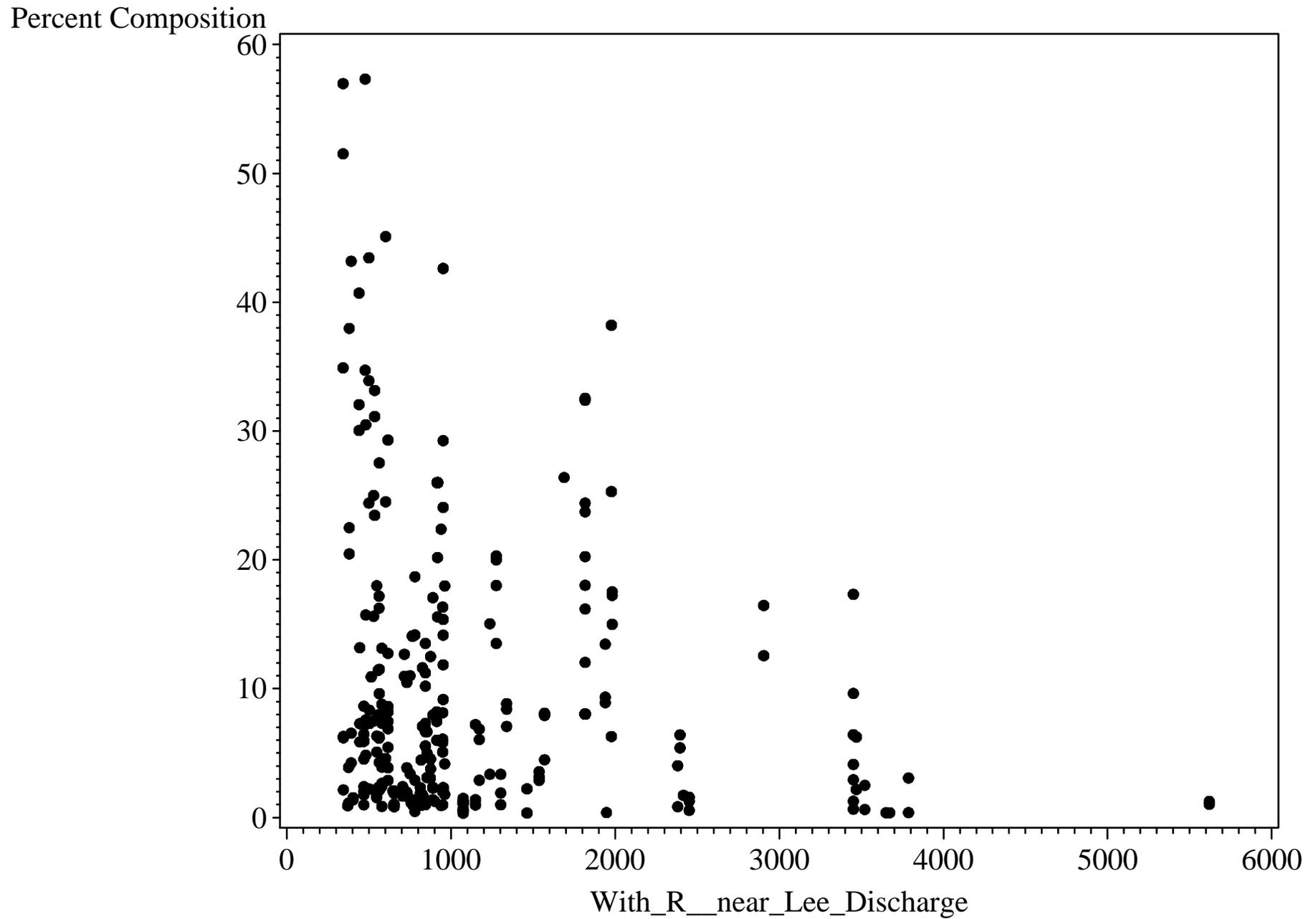


Percent Composition of Taxonomic Families vs. Estimated Withlacoochee Flow (at Lee)
family=Leptoceridae

Percent Composition



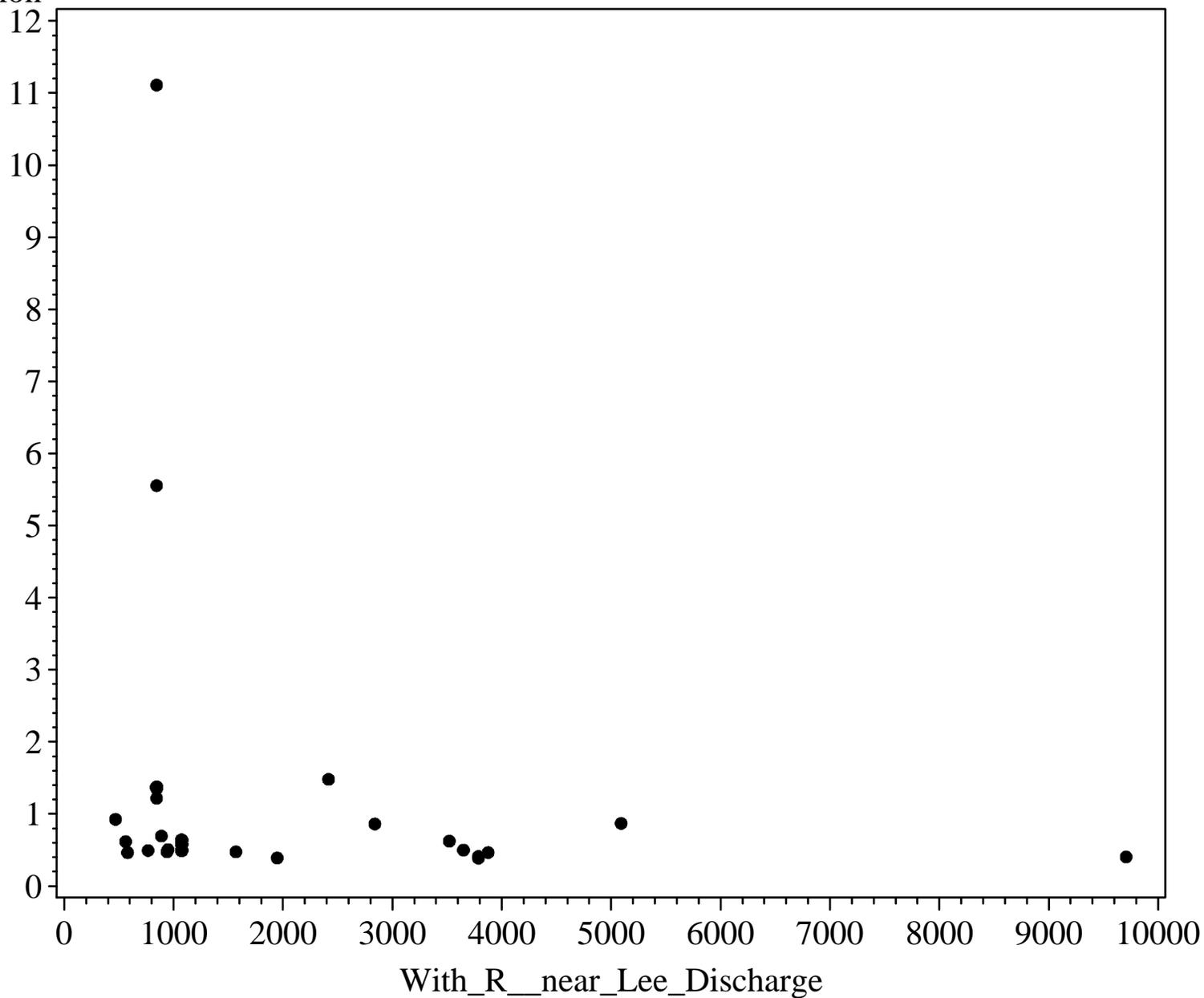
Percent Composition of Taxonomic Families vs. Estimated Withlacoochee Flow (at Lee)
family=Leptohyphida



Percent Composition of Taxonomic Families vs. Estimated Withlacoochee Flow (at Lee)

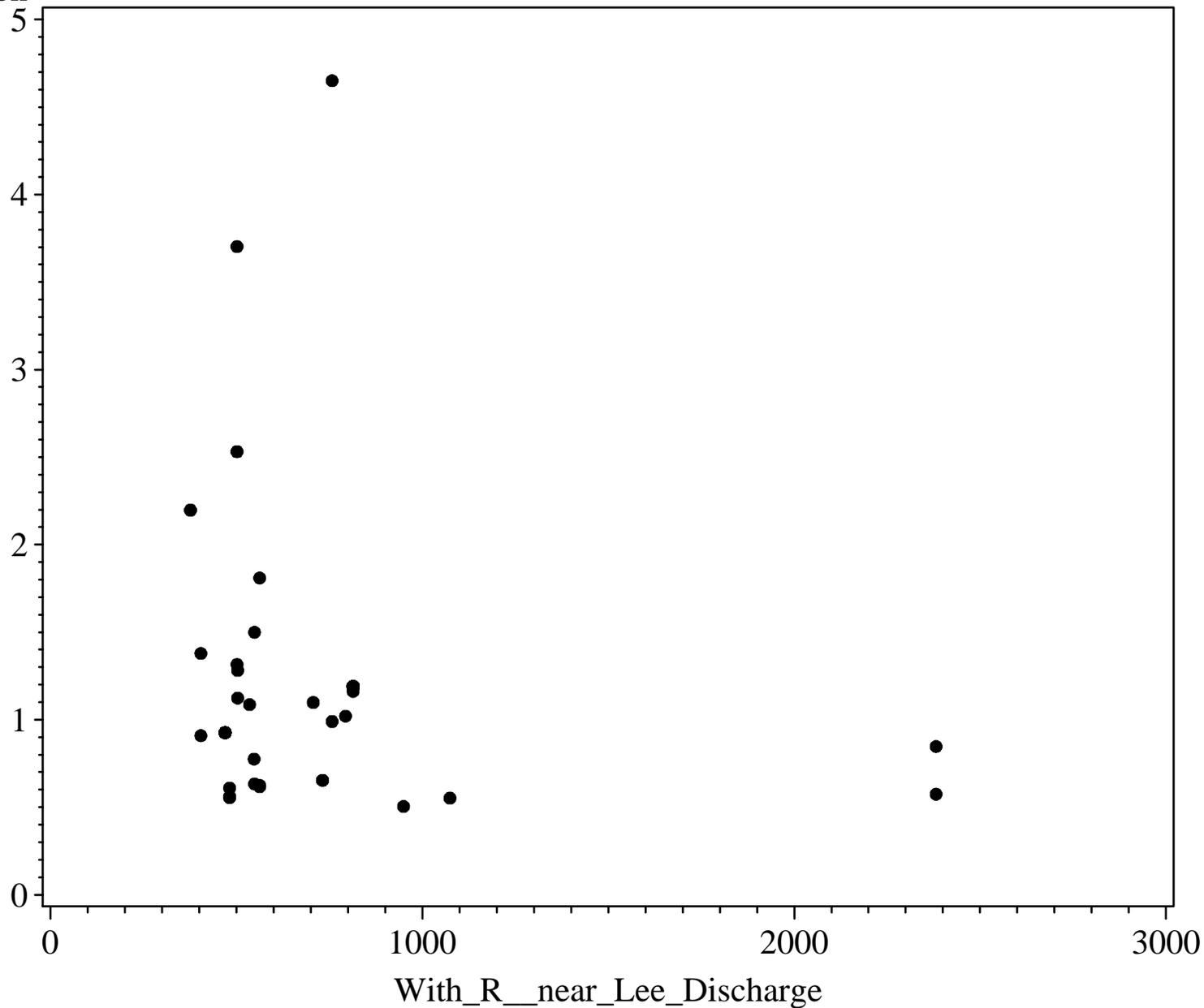
family=Perlidae

Percent Composition



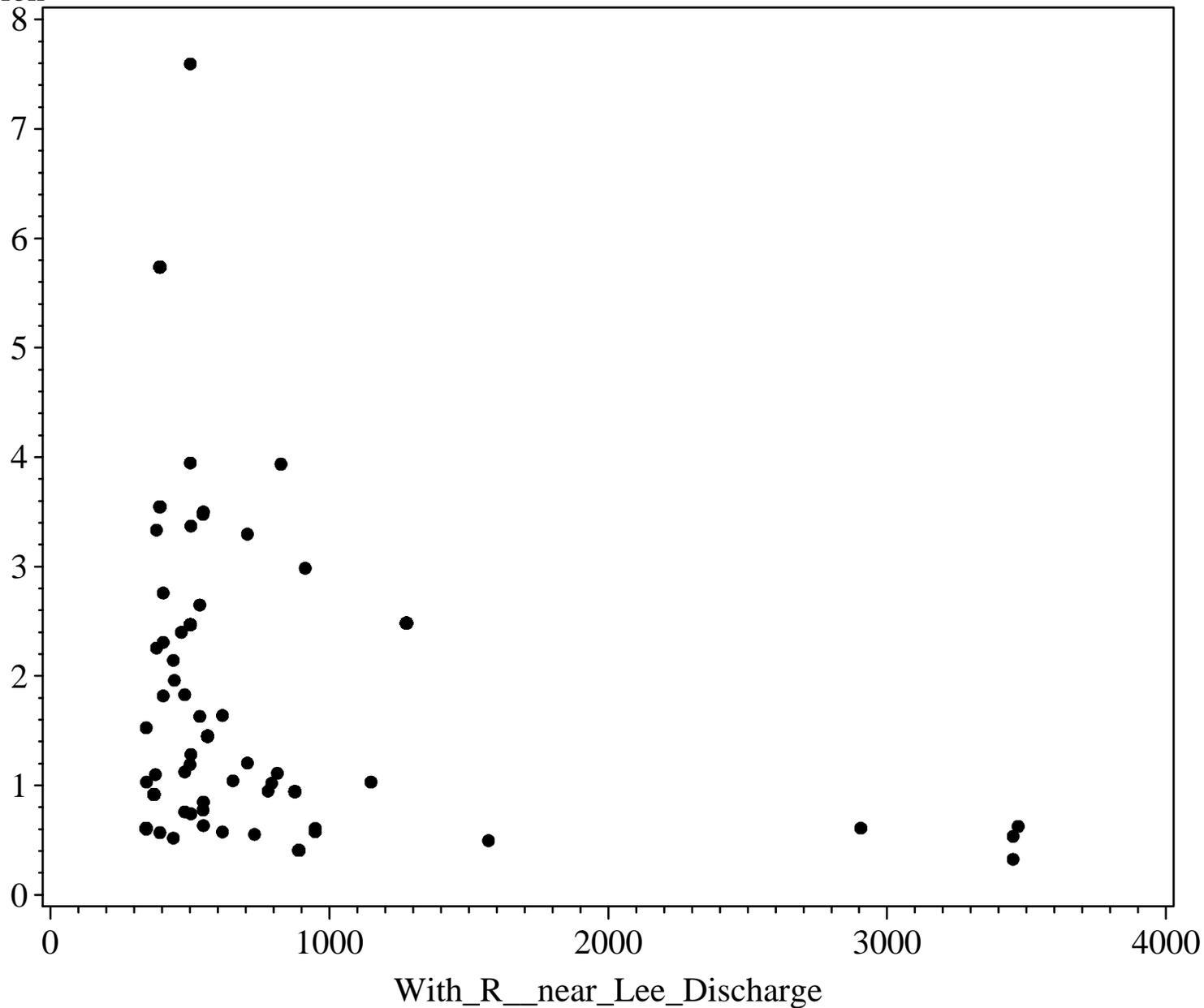
Percent Composition of Taxonomic Families vs. Estimated Withlacoochee Flow (at Lee)
family=Physidae

Percent Composition



Percent Composition of Taxonomic Families vs. Estimated Withlacoochee Flow (at Lee)
family=Planariidae

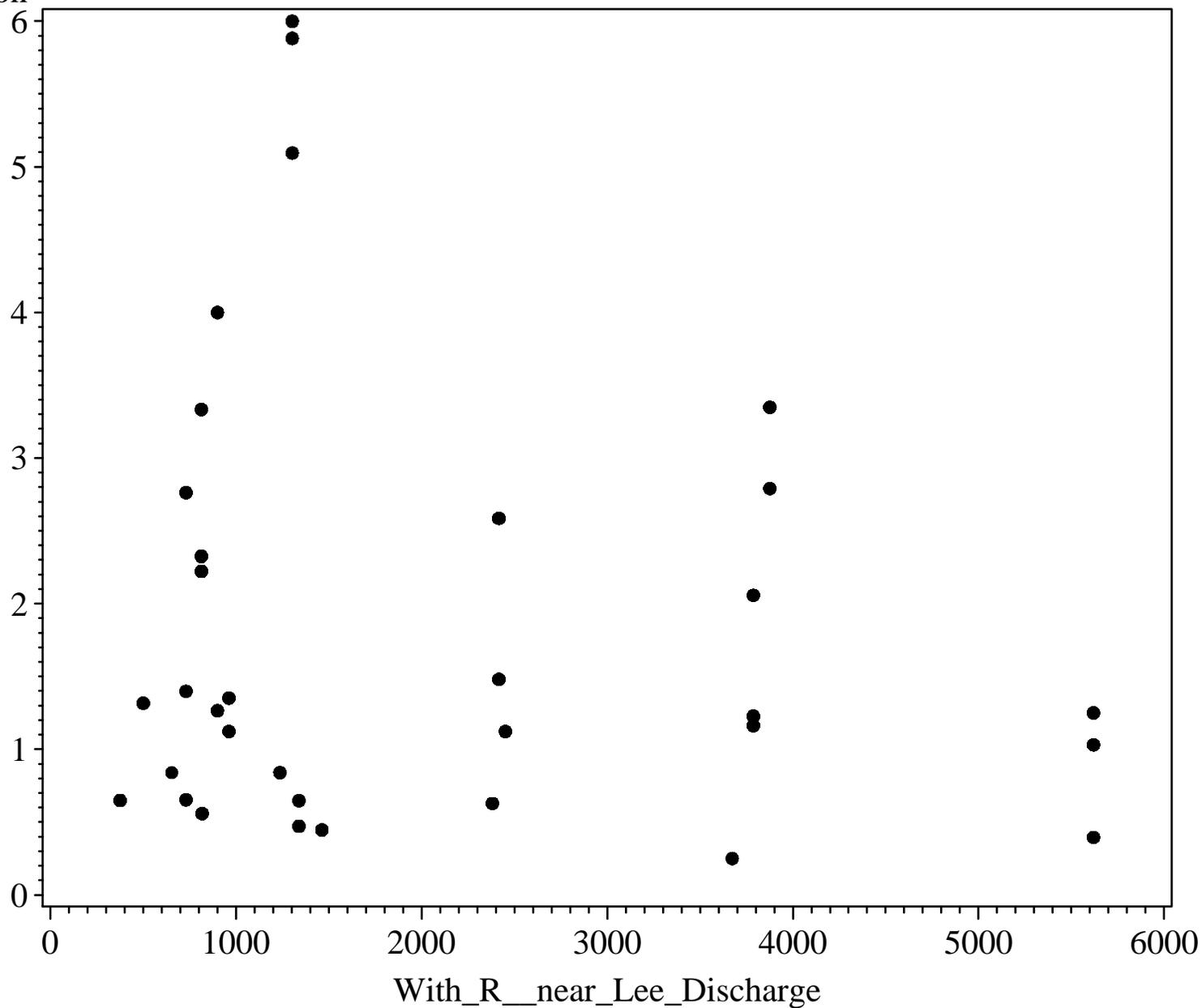
Percent Composition



Percent Composition of Taxonomic Families vs. Estimated Withlacoochee Flow (at Lee)

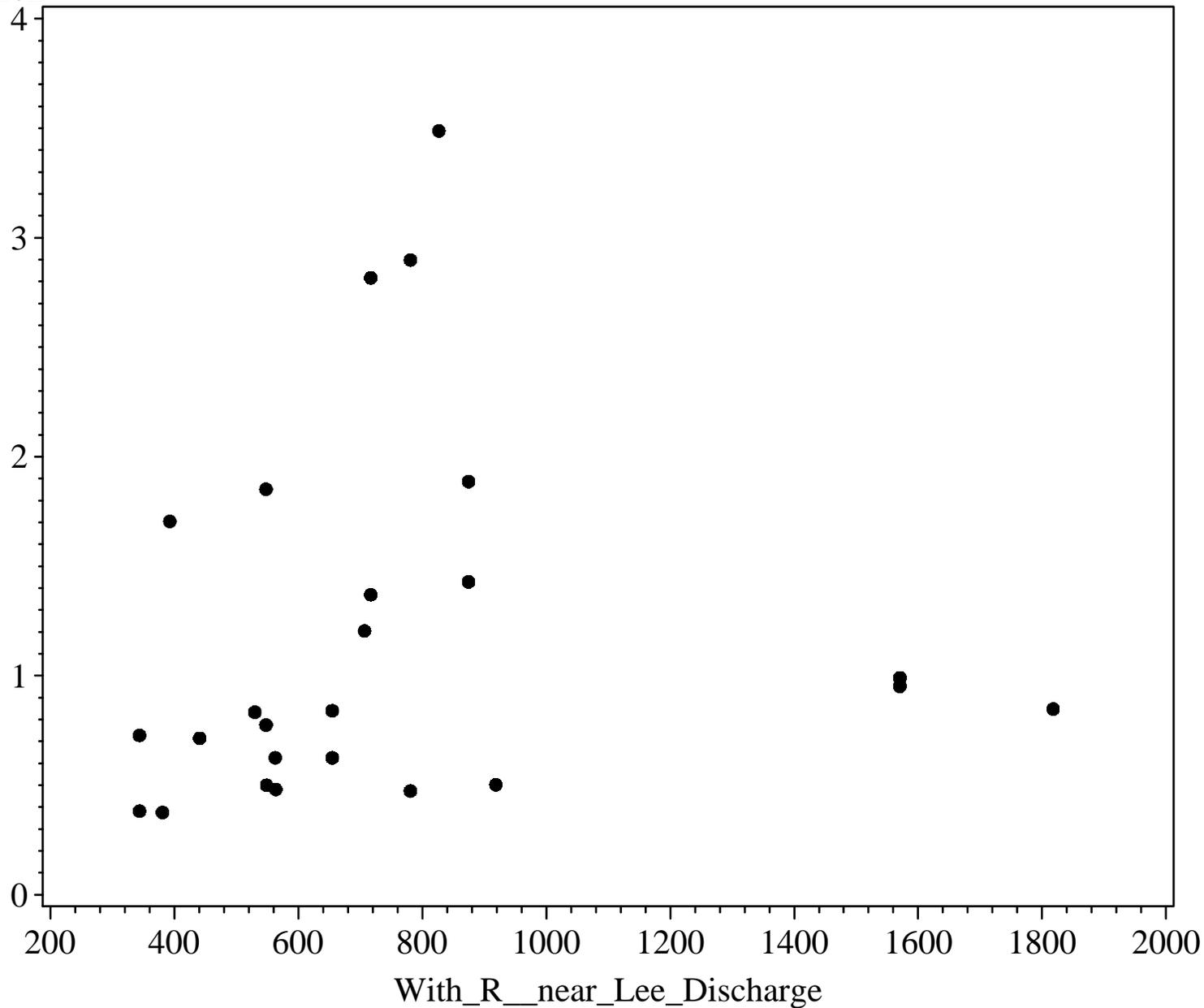
family=Taeniopteryg

Percent Composition

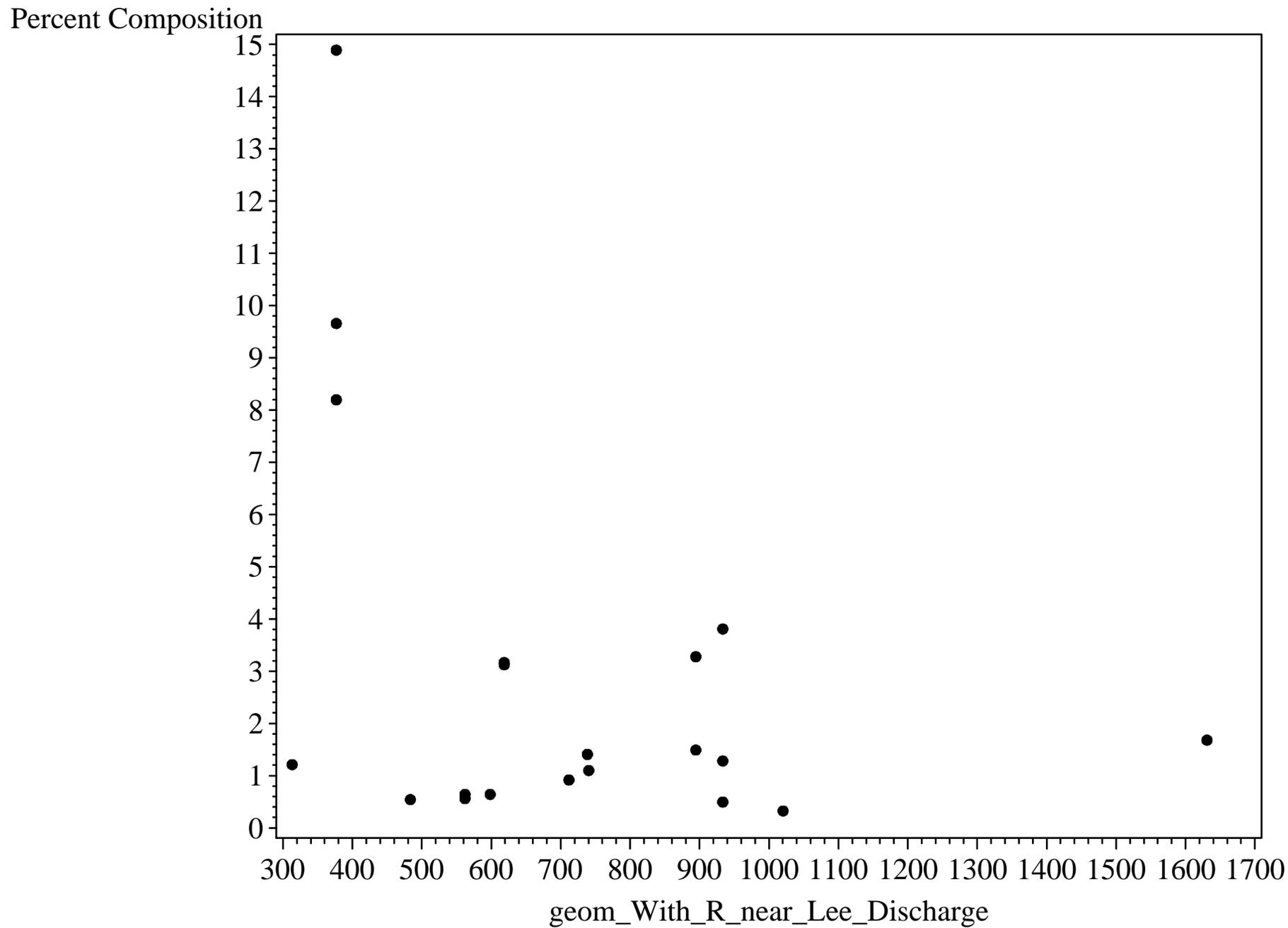


Percent Composition of Taxonomic Families vs. Estimated Withlacoochee Flow (at Lee)
family=Tetrastemmat

Percent Composition

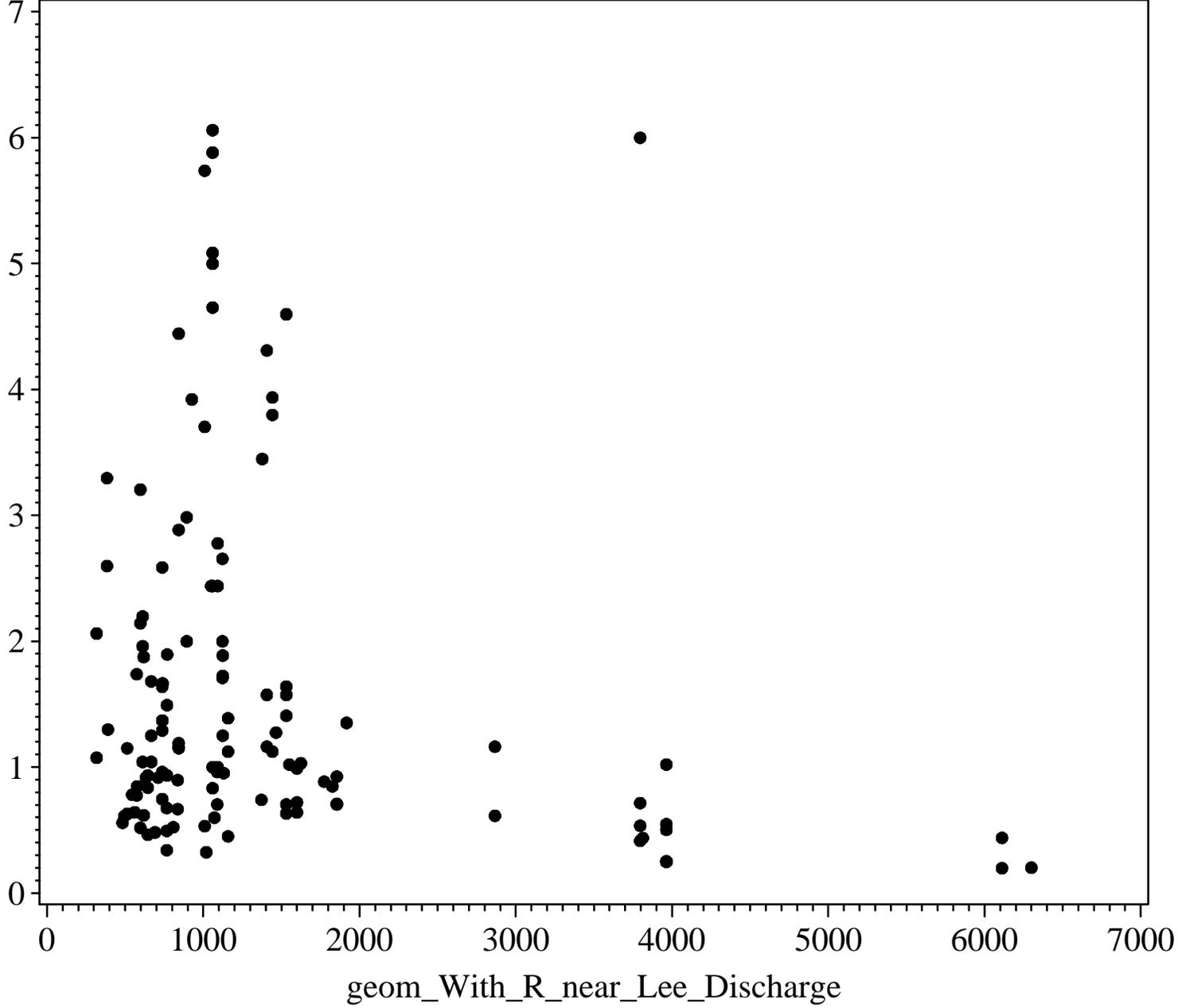


Percent Composition of Taxonomic Families vs. 30 Day Geometric Mean Withlacoochee Flow (at Lee)
family=Aeolosomatid



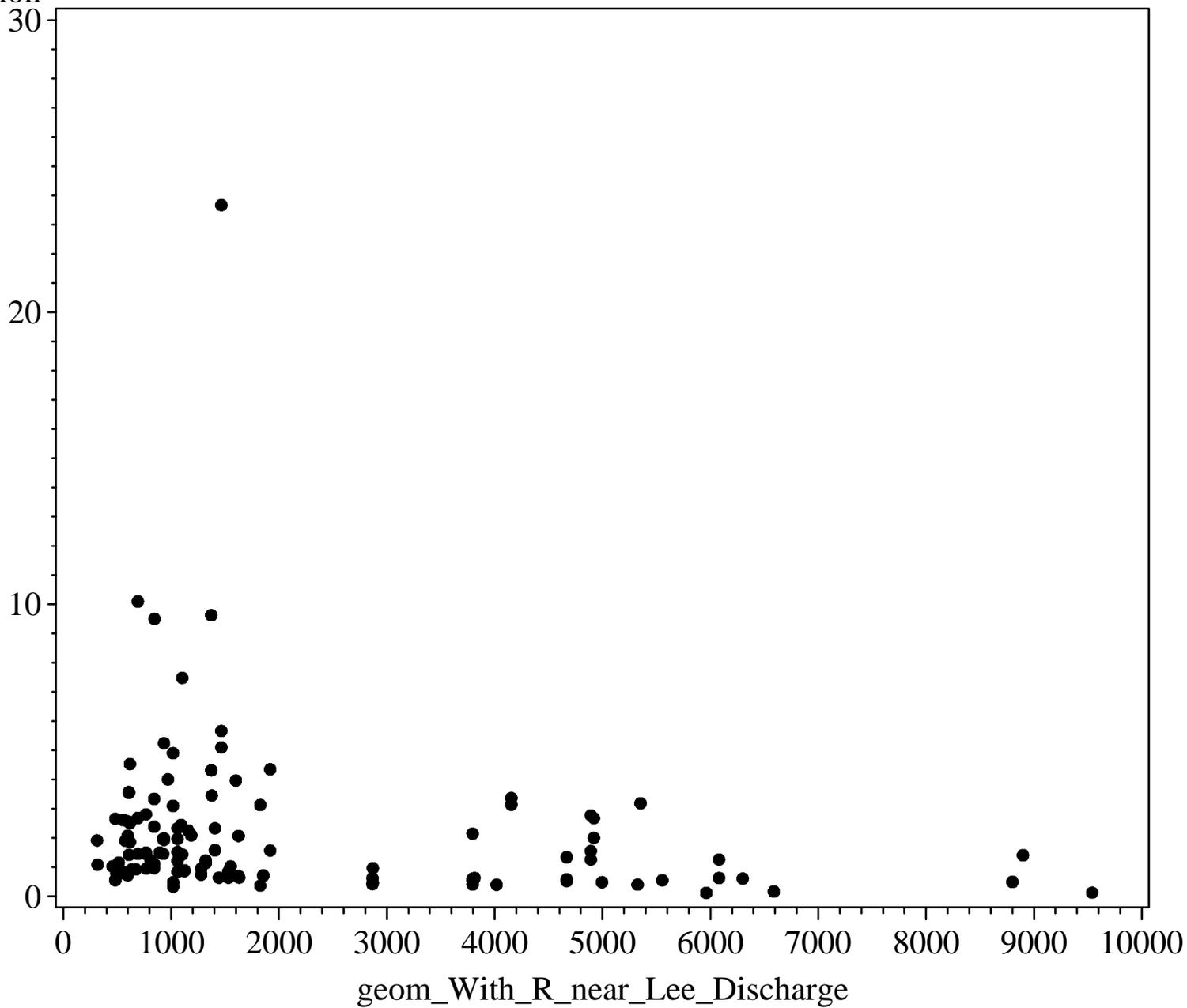
Percent Composition of Taxonomic Families vs. 30 Day Geometric Mean Withlacoochee Flow (at Lee)
family=Ancylidae

Percent Composition



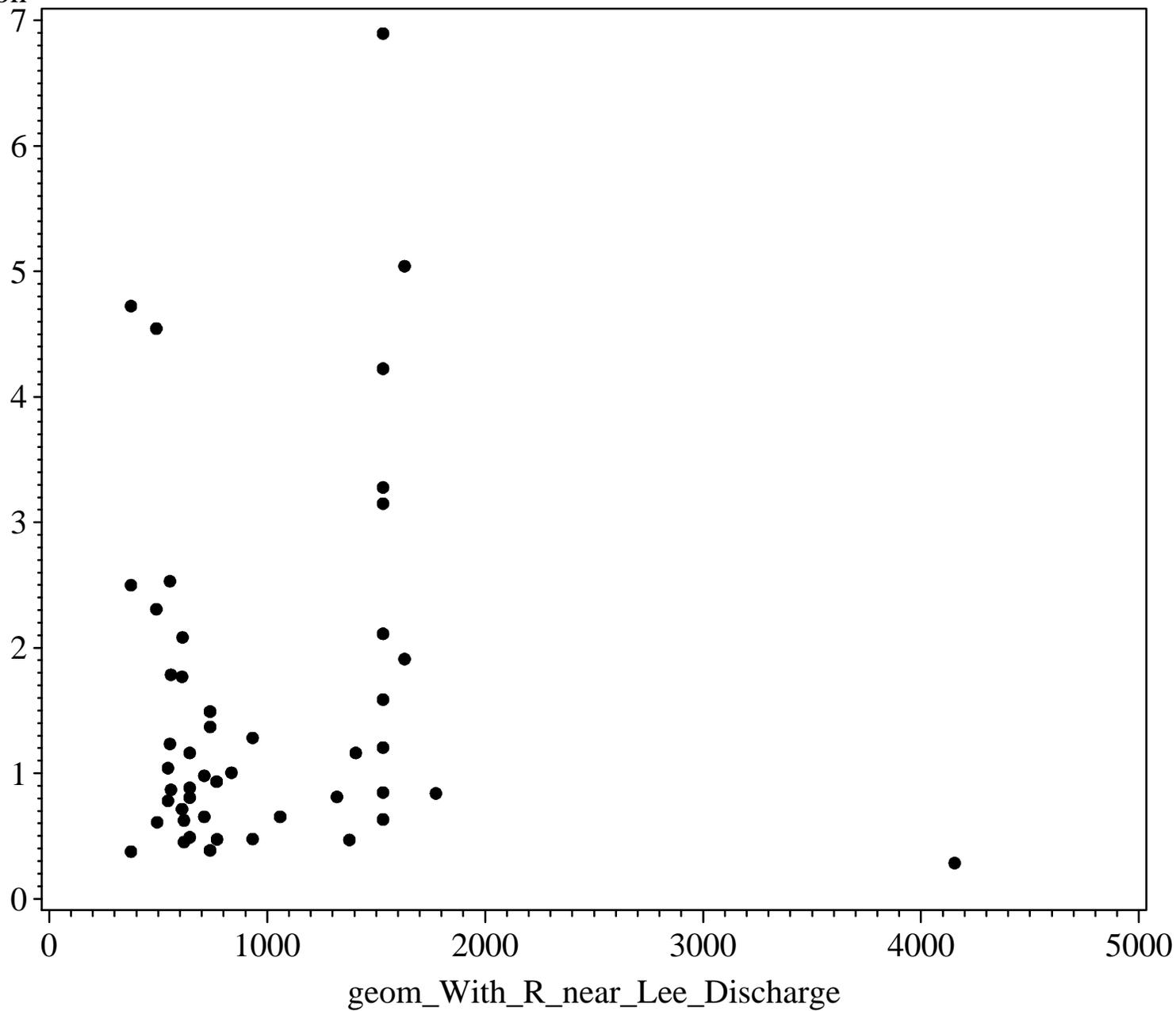
Percent Composition of Taxonomic Families vs. 30 Day Geometric Mean Withlacoochee Flow (at Lee)
family=Baetidae

Percent Composition



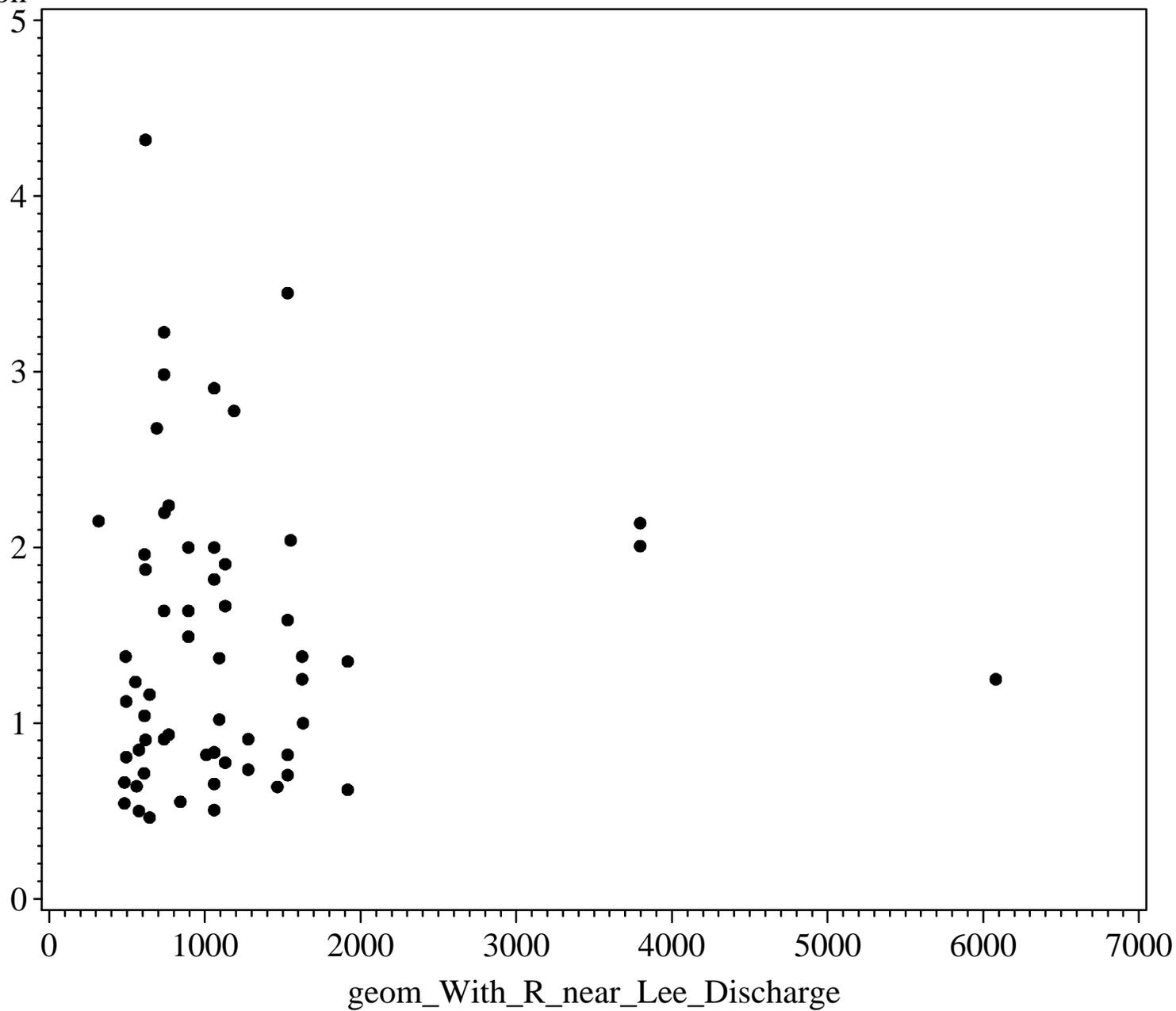
Percent Composition of Taxonomic Families vs. 30 Day Geometric Mean Withlacoochee Flow (at Lee)
family=Caenidae

Percent Composition



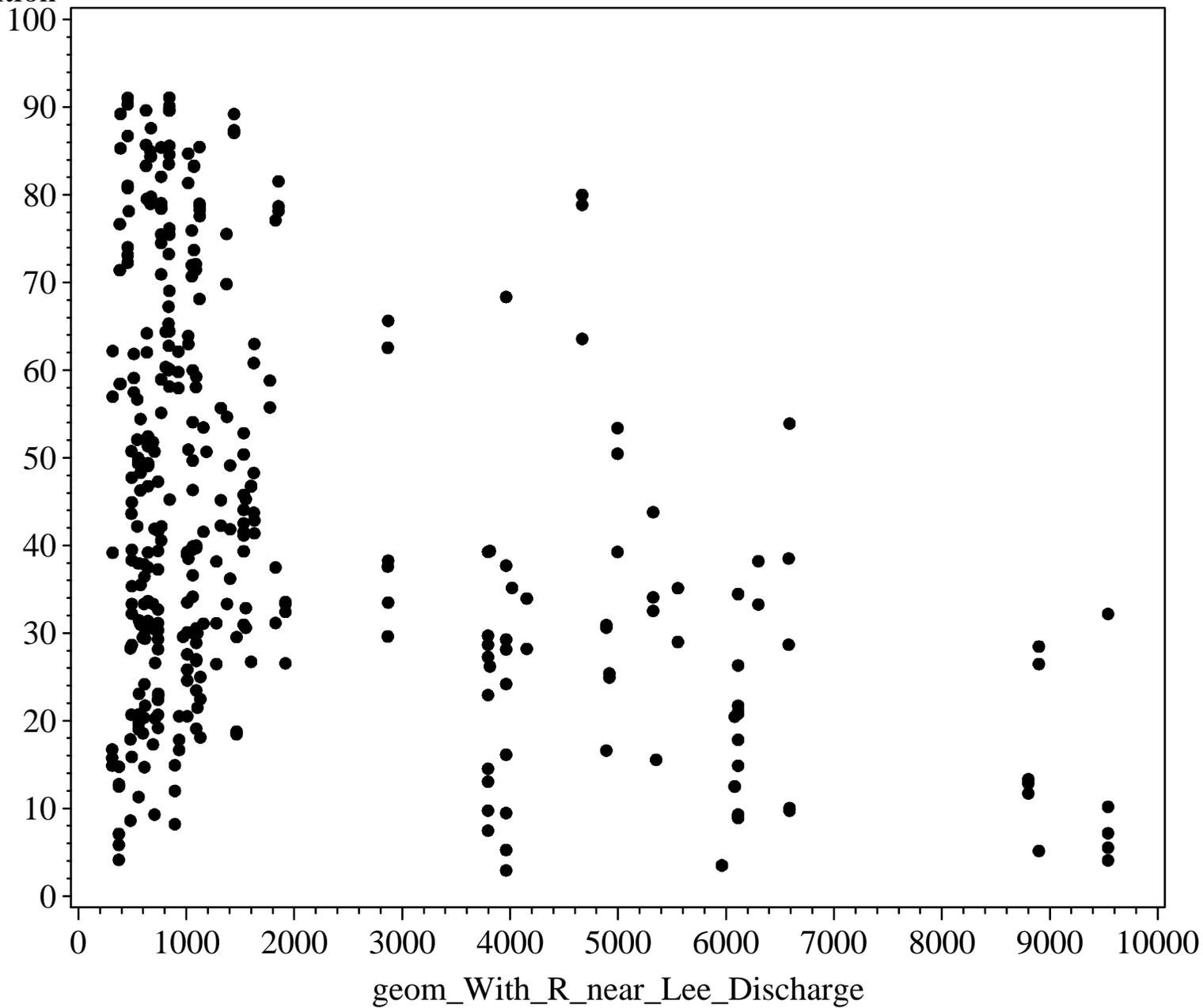
Percent Composition of Taxonomic Families vs. 30 Day Geometric Mean Withlacoochee Flow (at Lee)
family=Ceratopogoni

Percent Composition



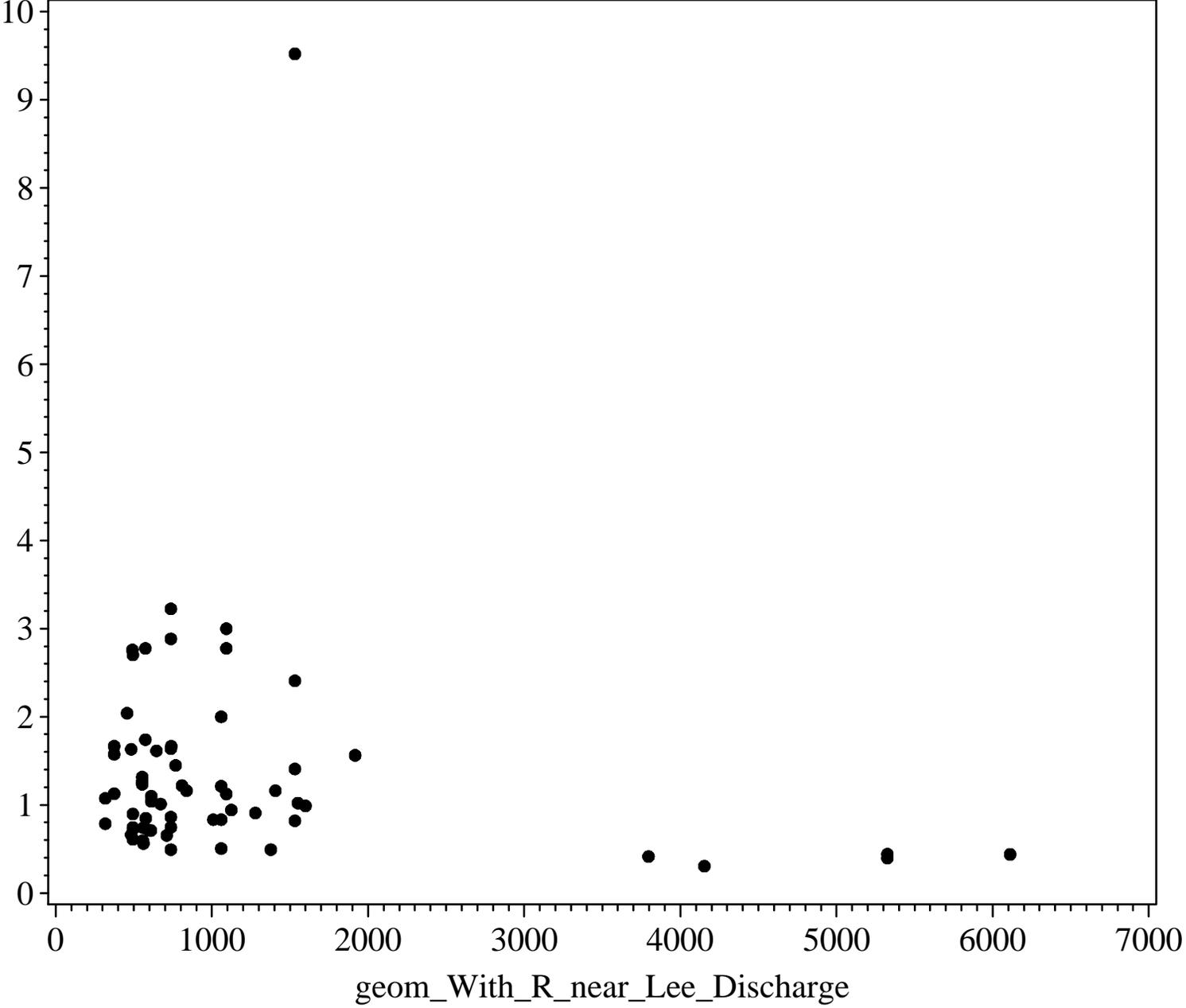
Percent Composition of Taxonomic Families vs. 30 Day Geometric Mean Withlacoochee Flow (at Lee)
family=Chironomidae

Percent Composition



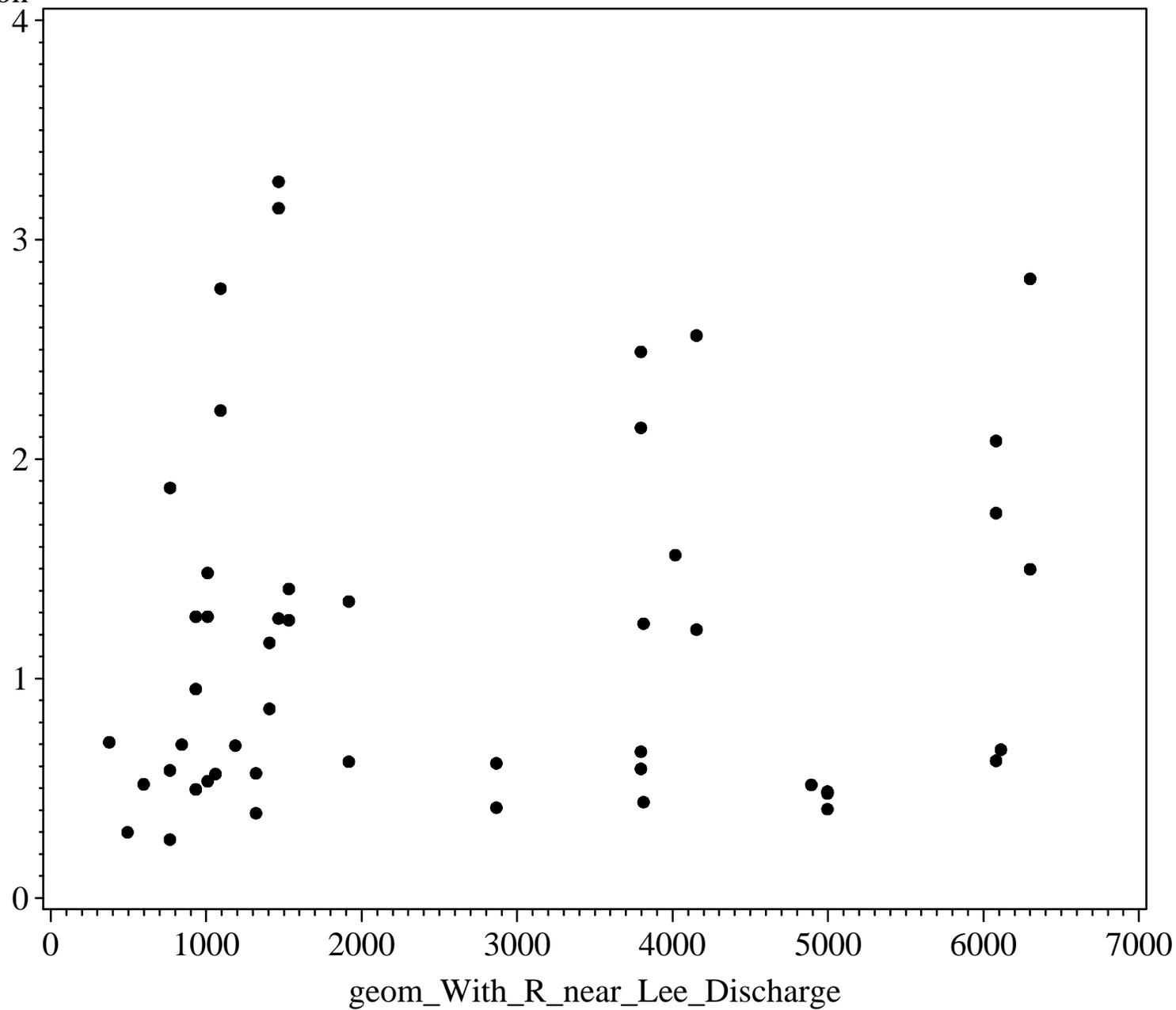
Percent Composition of Taxonomic Families vs. 30 Day Geometric Mean Withlacoochee Flow (at Lee)
family=Coenagrionid

Percent Composition



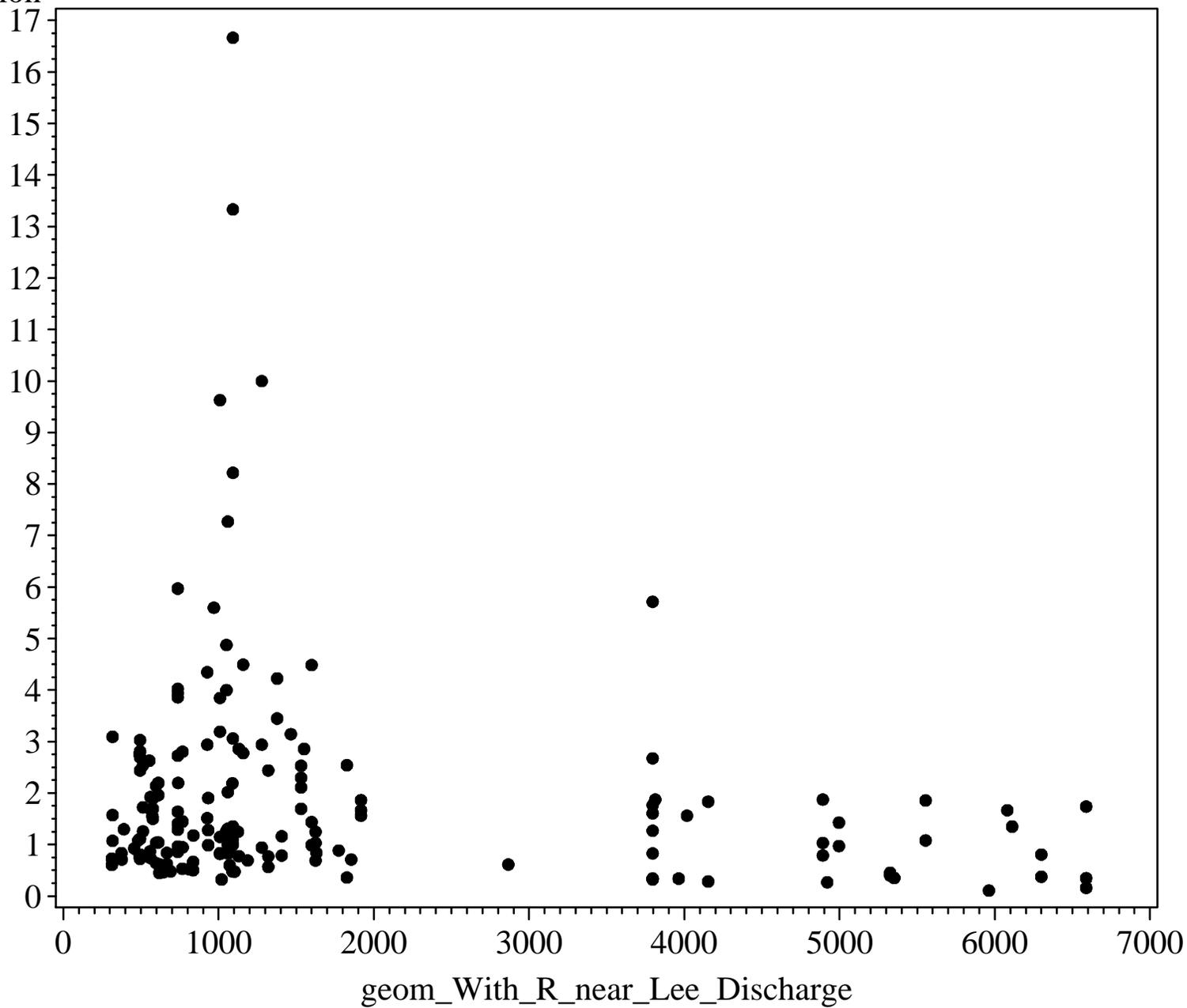
Percent Composition of Taxonomic Families vs. 30 Day Geometric Mean Withlacoochee Flow (at Lee)
family=Corydalidae

Percent Composition



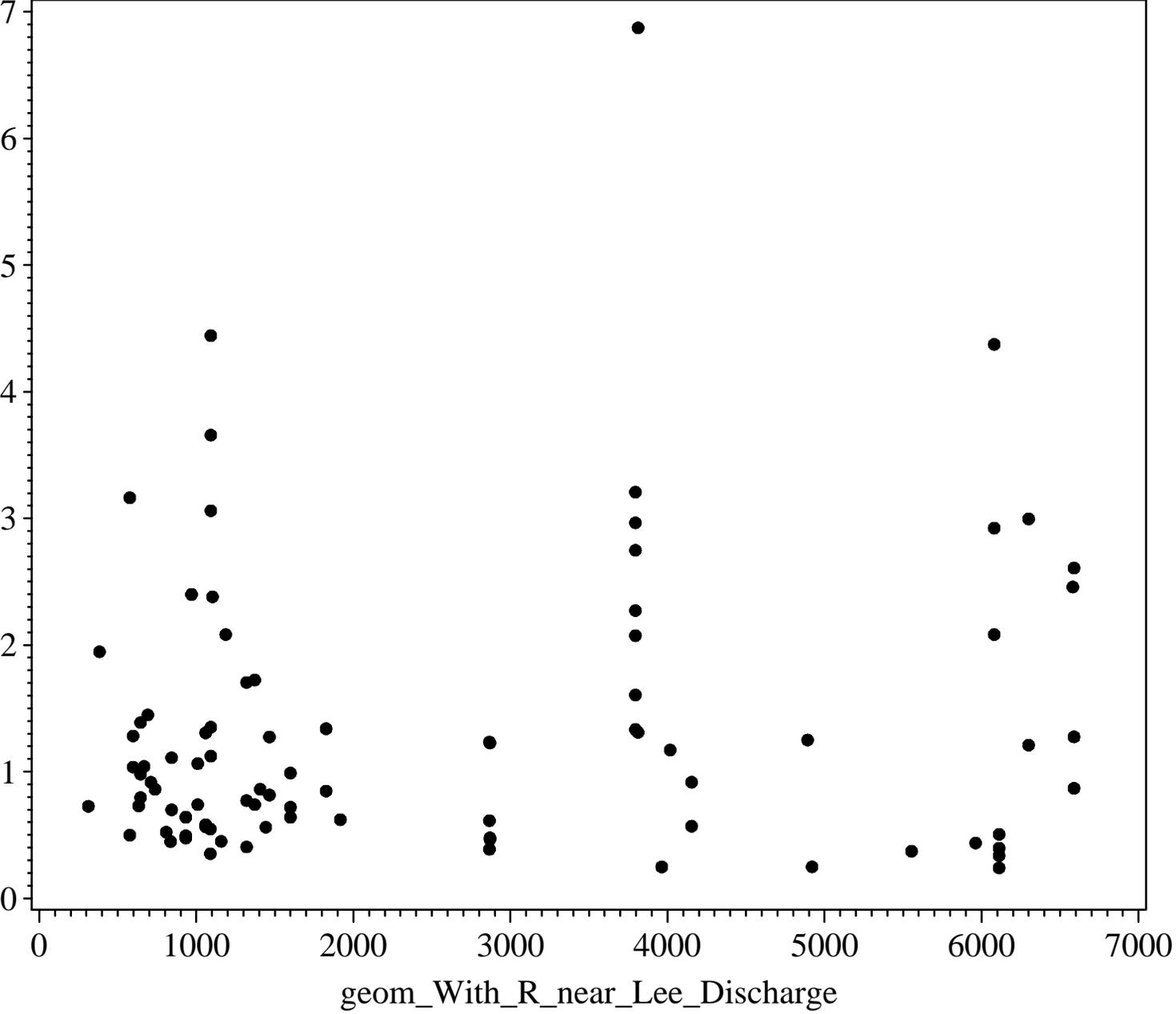
Percent Composition of Taxonomic Families vs. 30 Day Geometric Mean Withlacoochee Flow (at Lee)
family=Elmidae

Percent Composition

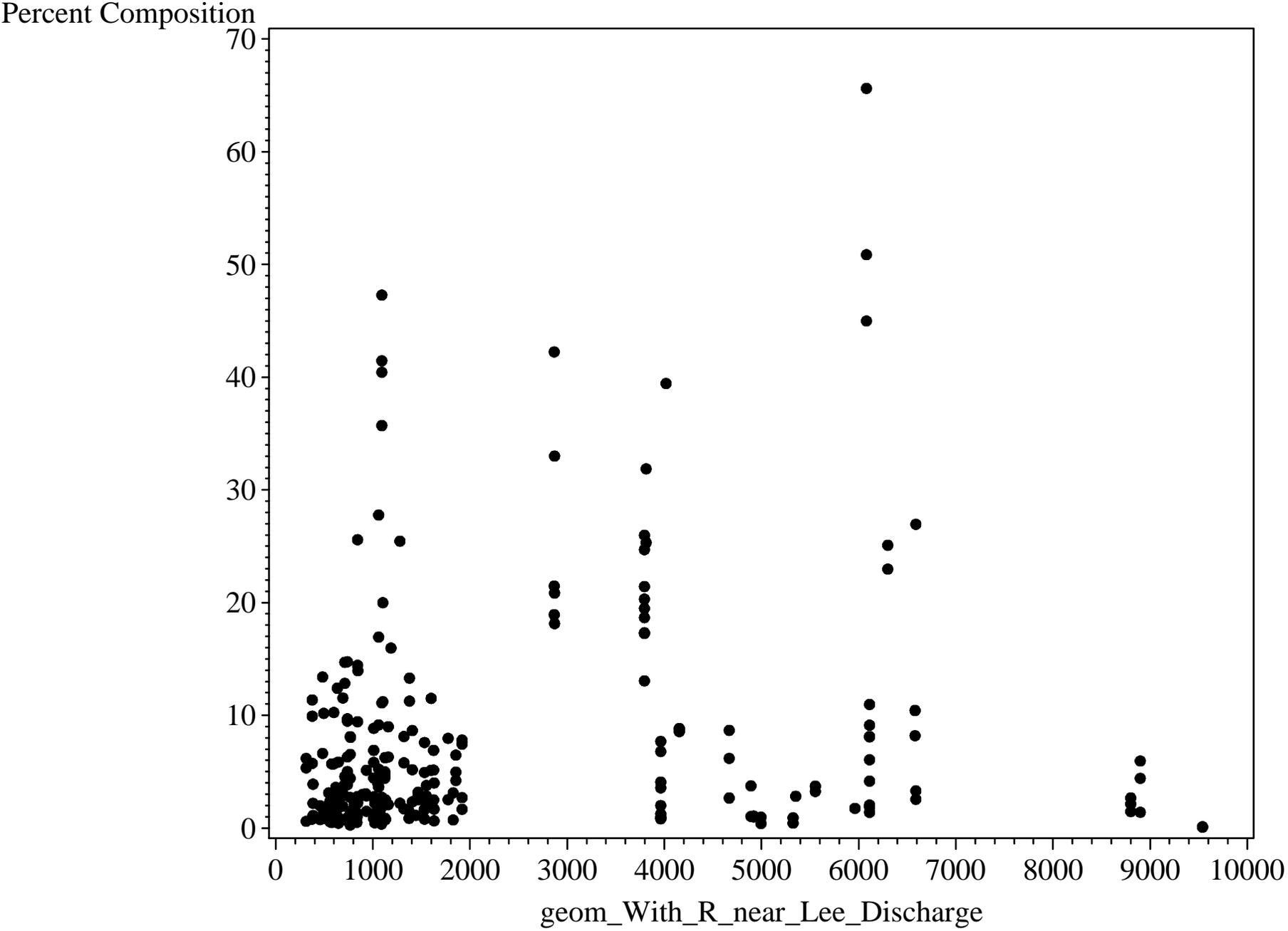


Percent Composition of Taxonomic Families vs. 30 Day Geometric Mean Withlacoochee Flow (at Lee)
family=Empididae

Percent Composition

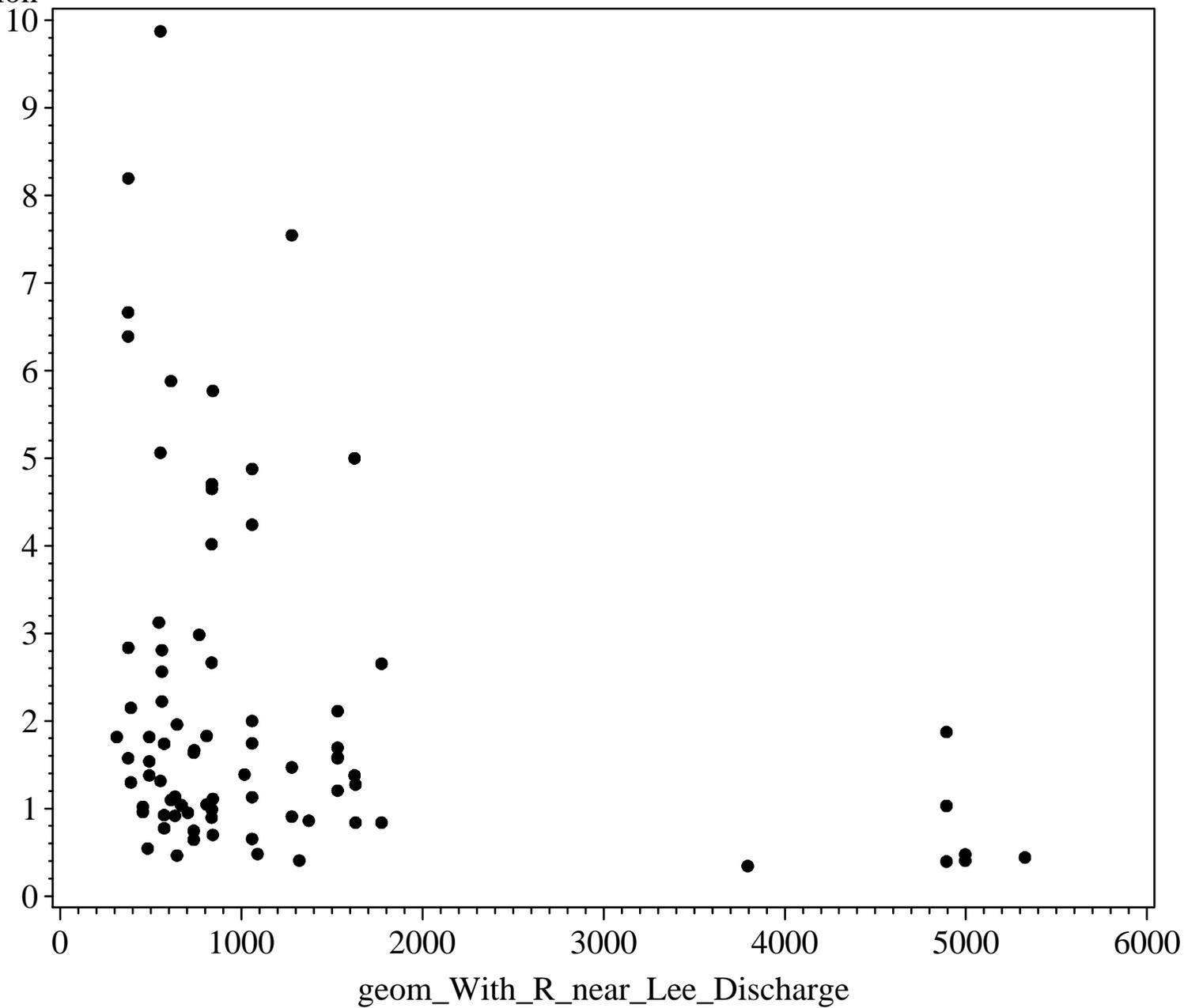


Percent Composition of Taxonomic Families vs. 30 Day Geometric Mean Withlacoochee Flow (at Lee)
family=Heptageniida

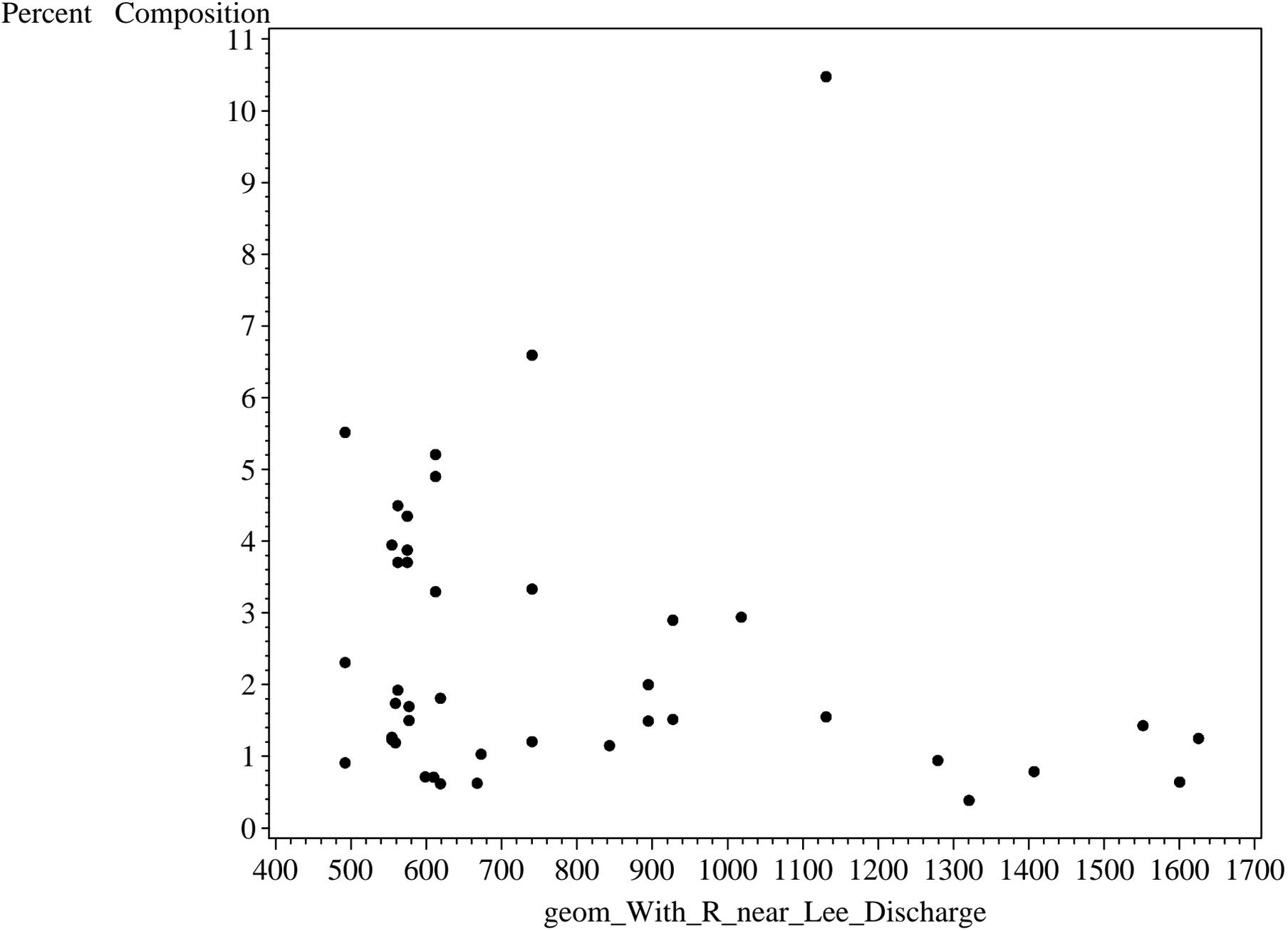


Percent Composition of Taxonomic Families vs. 30 Day Geometric Mean Withlacoochee Flow (at Lee)
family=Hyaletellidae

Percent Composition

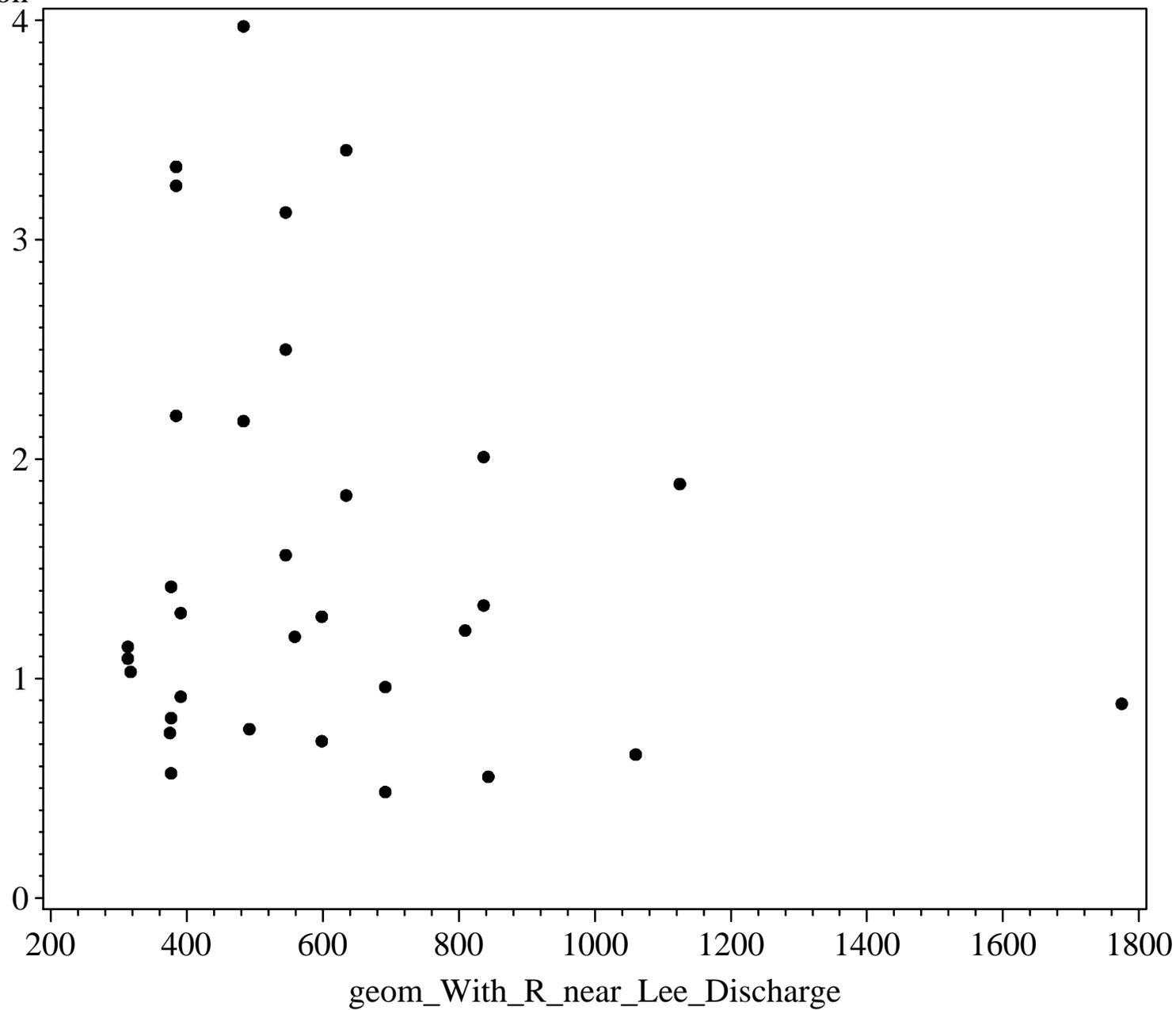


Percent Composition of Taxonomic Families vs. 30 Day Geometric Mean Withlacoochee Flow (at Lee)
family=Hydrobiidae



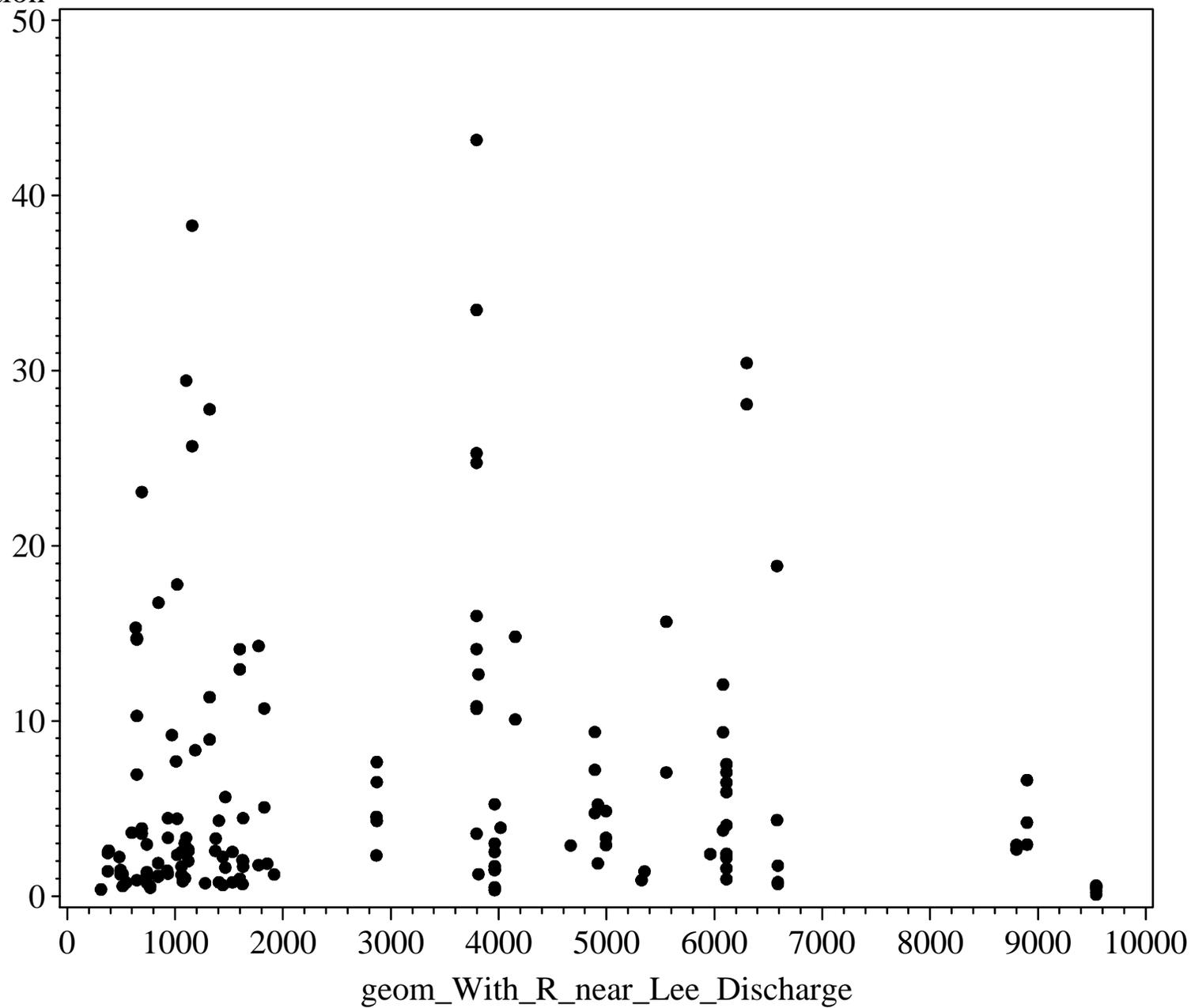
Percent Composition of Taxonomic Families vs. 30 Day Geometric Mean Withlacoochee Flow (at Lee)
family=Hydrodromida

Percent Composition



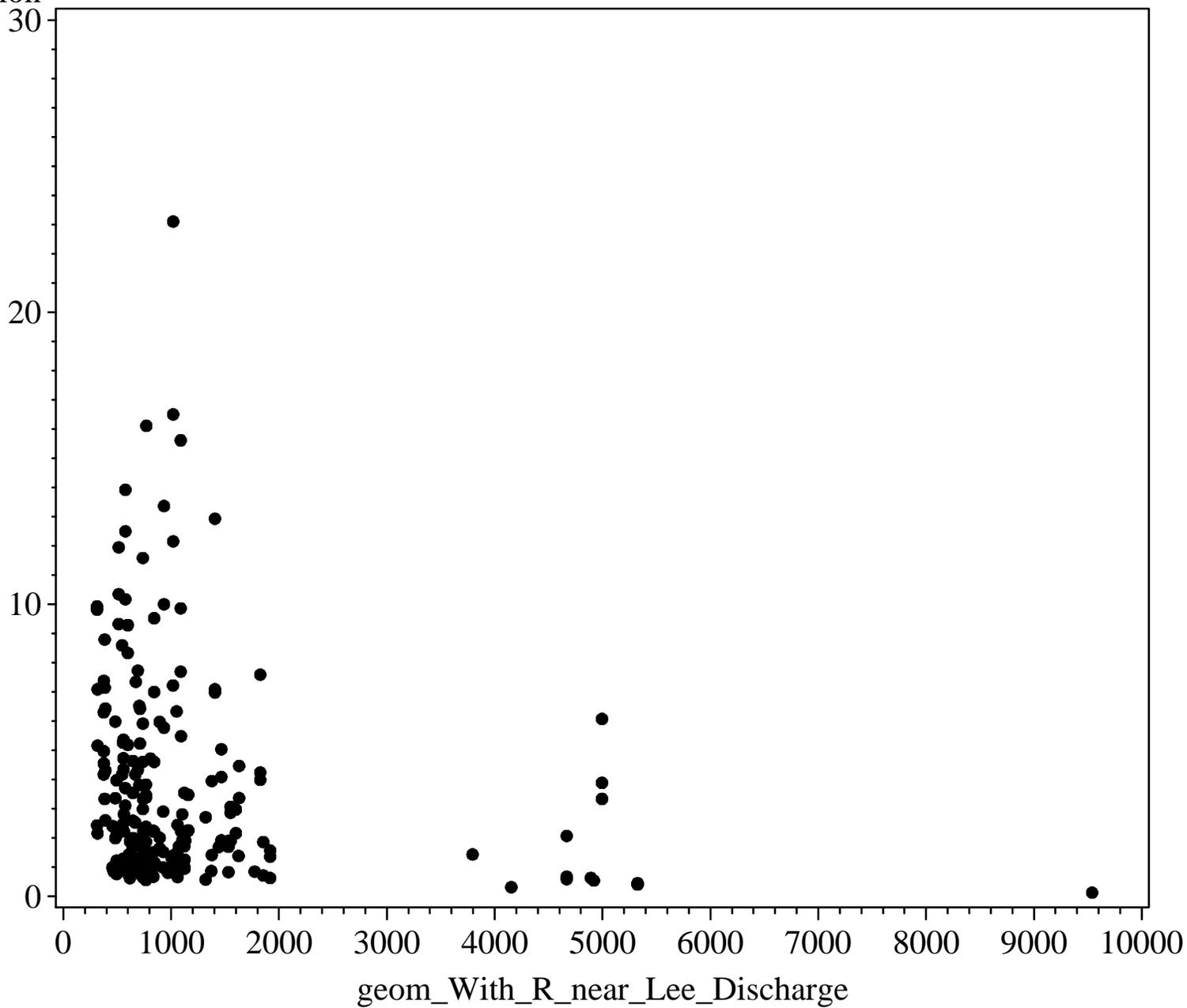
Percent Composition of Taxonomic Families vs. 30 Day Geometric Mean Withlacoochee Flow (at Lee)
family=Hydropsychid

Percent Composition



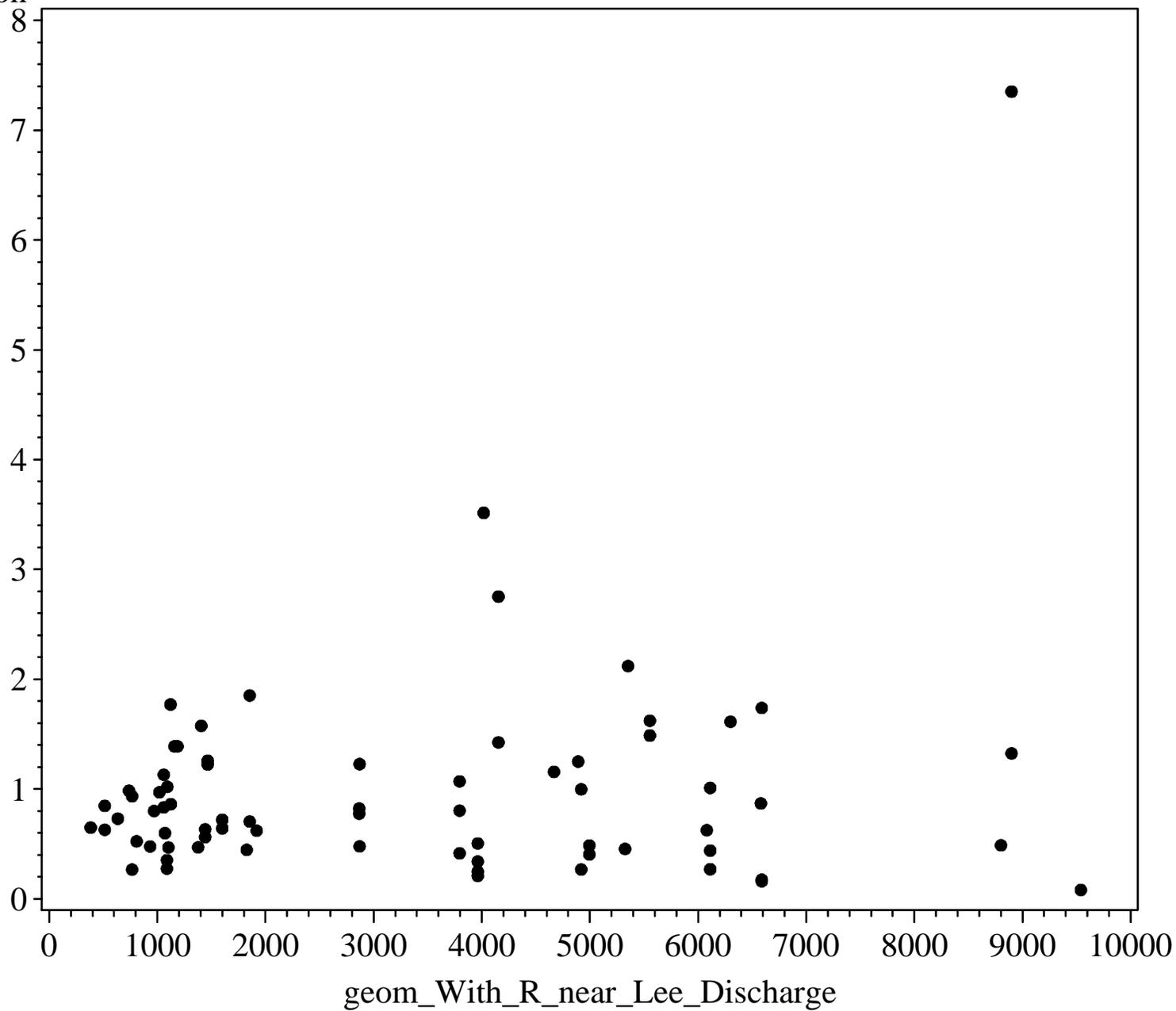
Percent Composition of Taxonomic Families vs. 30 Day Geometric Mean Withlacoochee Flow (at Lee)
family=Hydroptilida

Percent Composition



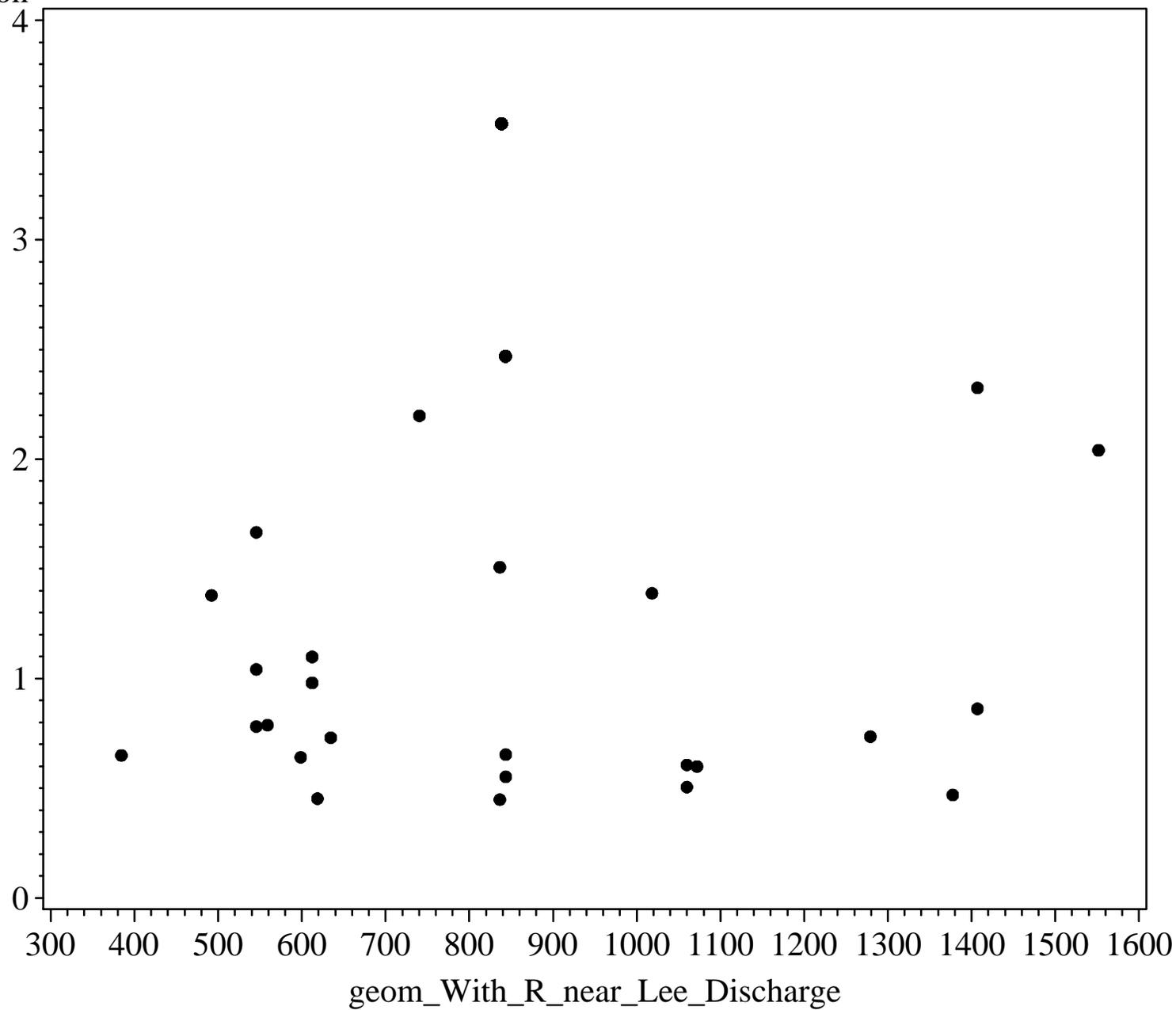
Percent Composition of Taxonomic Families vs. 30 Day Geometric Mean Withlacoochee Flow (at Lee)
family=Isonychiidae

Percent Composition



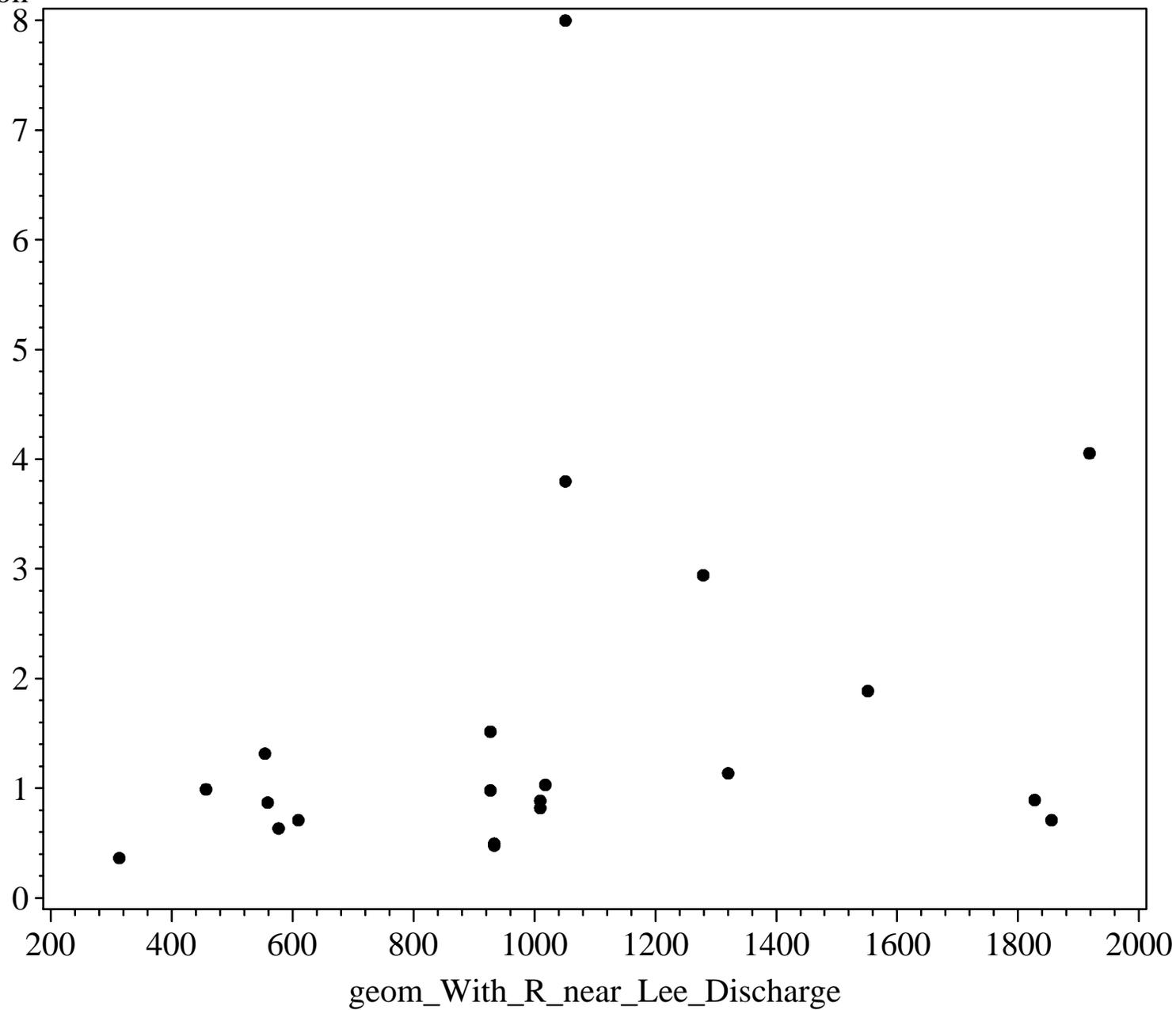
Percent Composition of Taxonomic Families vs. 30 Day Geometric Mean Withlacoochee Flow (at Lee)
family=Isotomidae

Percent Composition



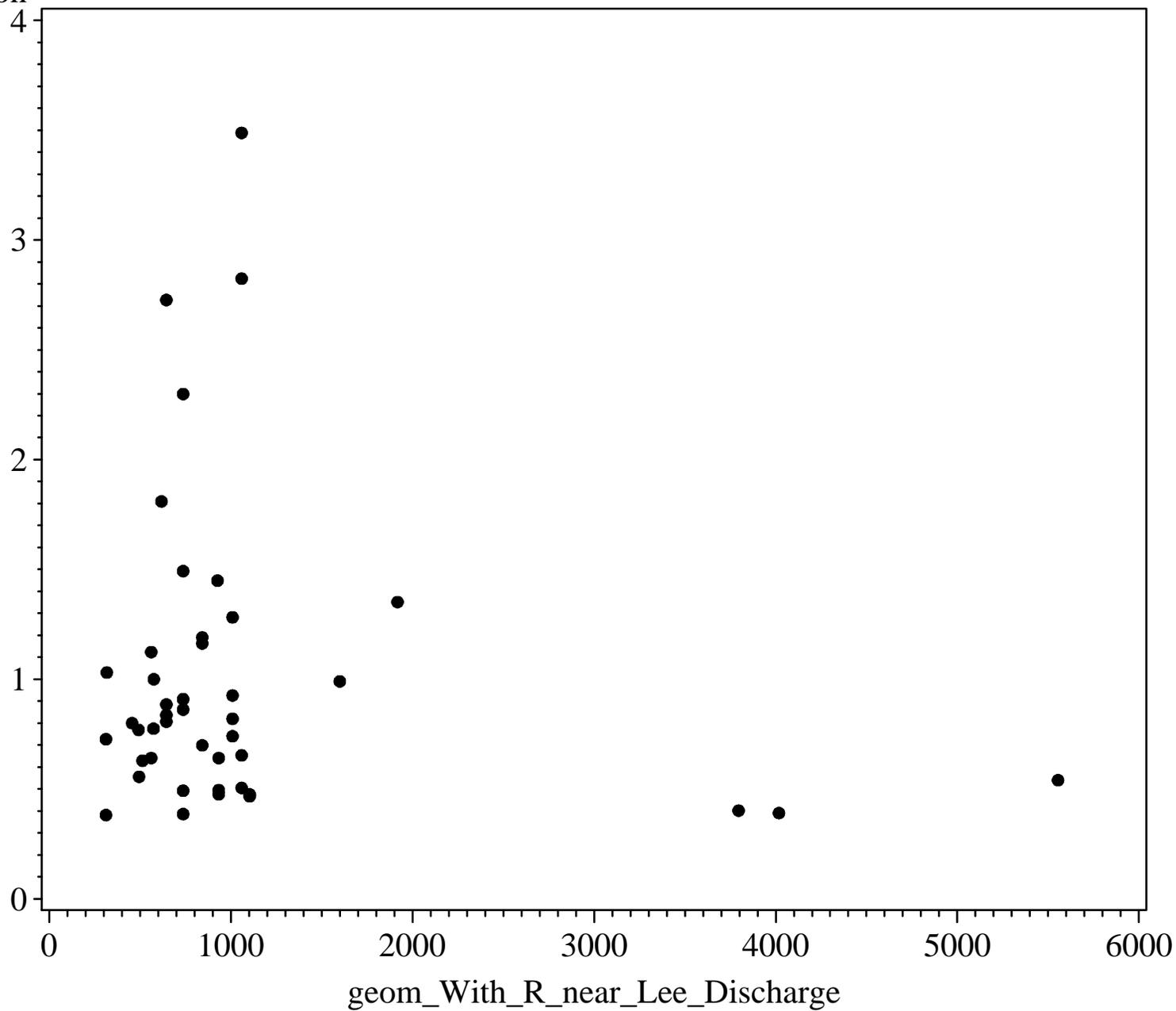
Percent Composition of Taxonomic Families vs. 30 Day Geometric Mean Withlacoochee Flow (at Lee)
family=Lebertiidae

Percent Composition



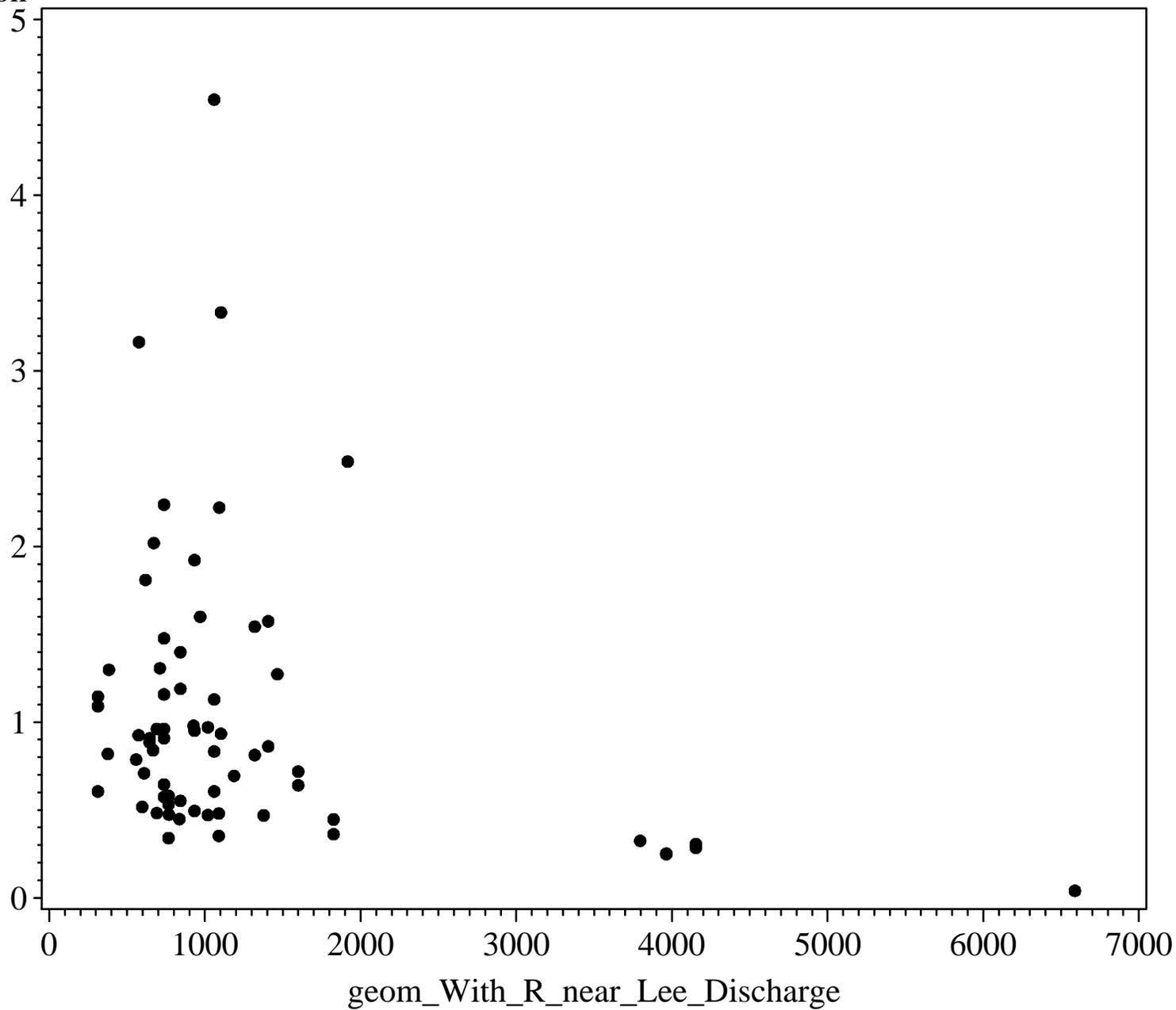
Percent Composition of Taxonomic Families vs. 30 Day Geometric Mean Withlacoochee Flow (at Lee)
family=Lectocerinae

Percent Composition

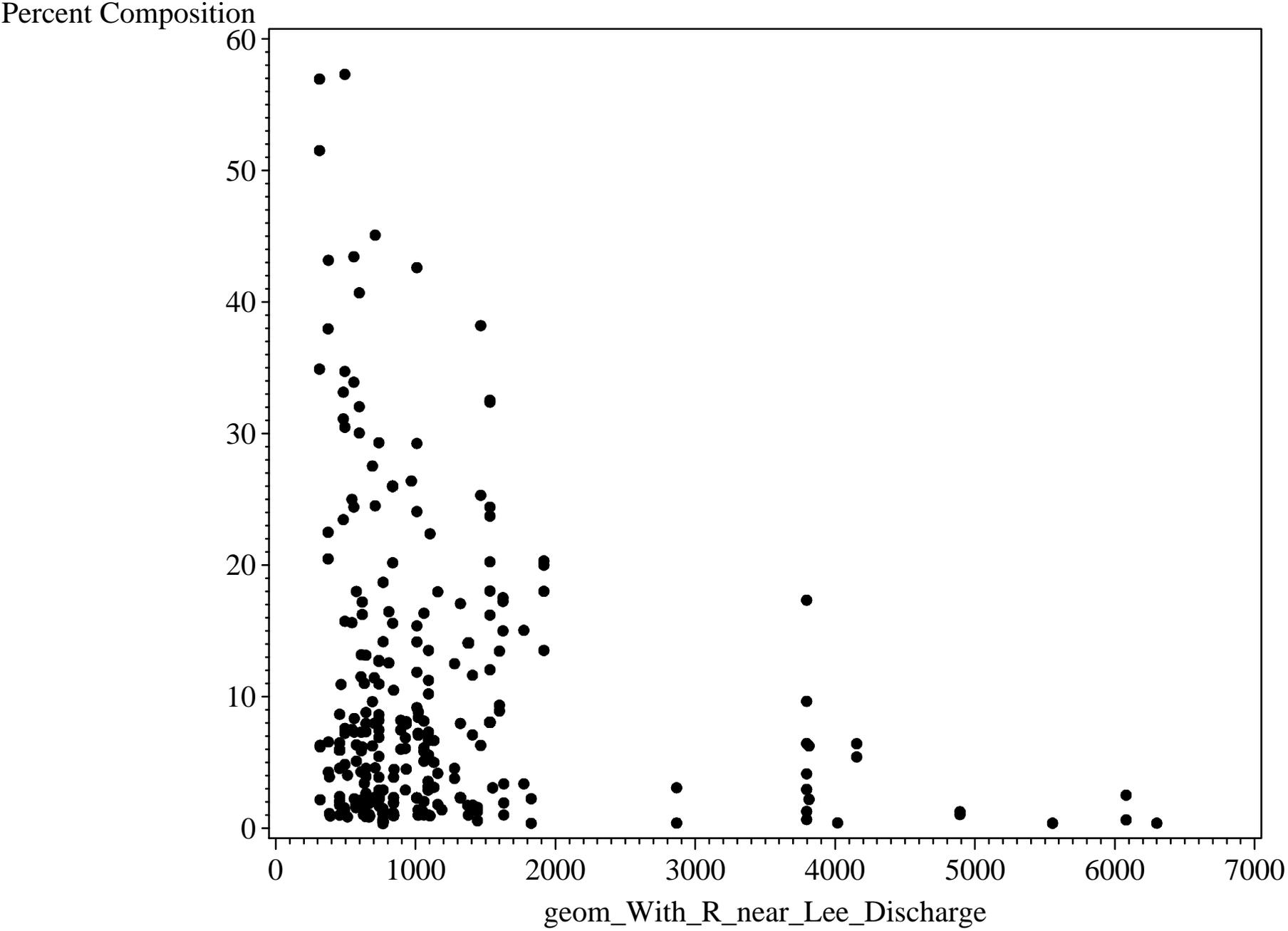


Percent Composition of Taxonomic Families vs. 30 Day Geometric Mean Withlacoochee Flow (at Lee)
family=Leptoceridae

Percent Composition

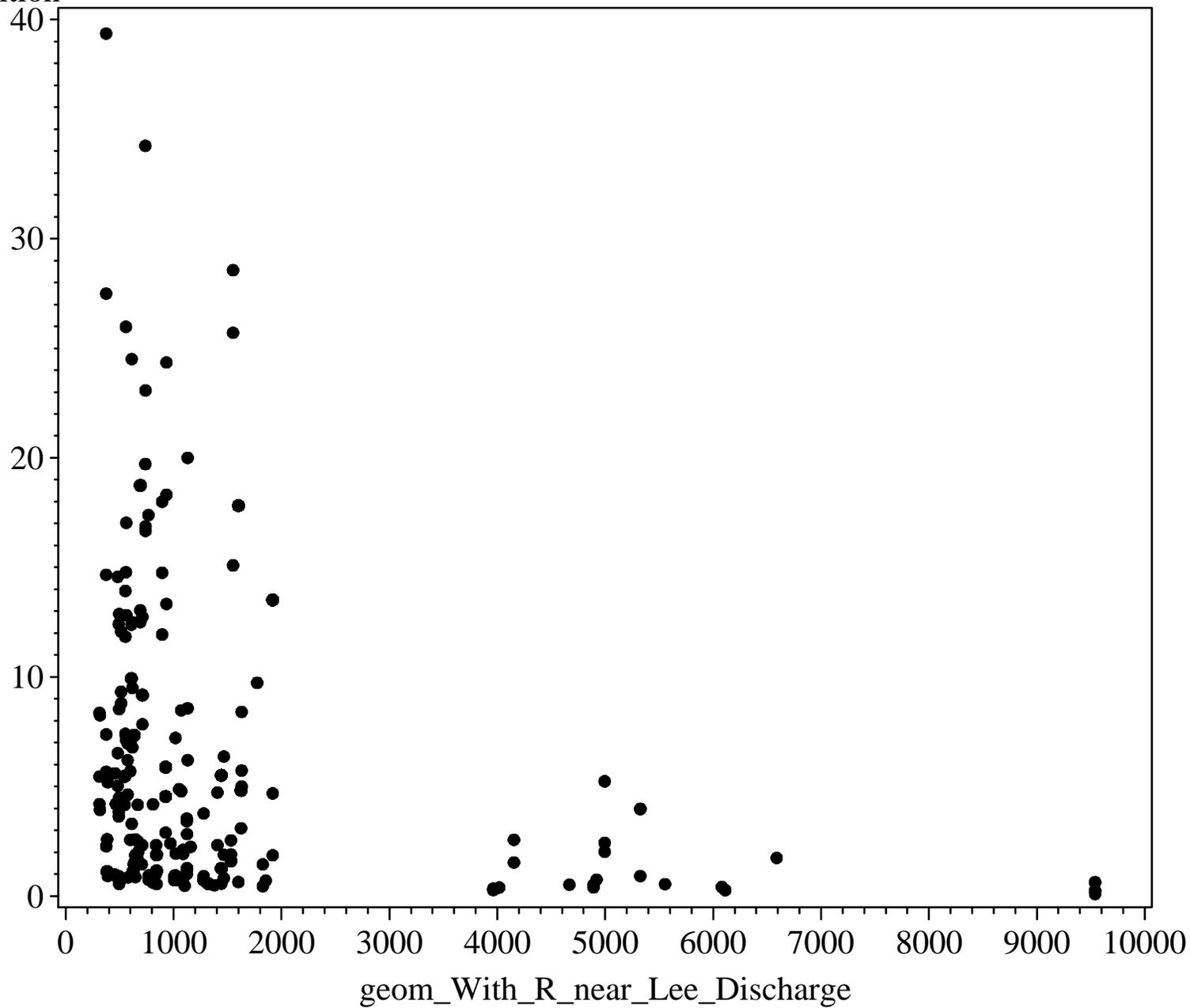


Percent Composition of Taxonomic Families vs. 30 Day Geometric Mean Withlacoochee Flow (at Lee)
family=Leptohyphida



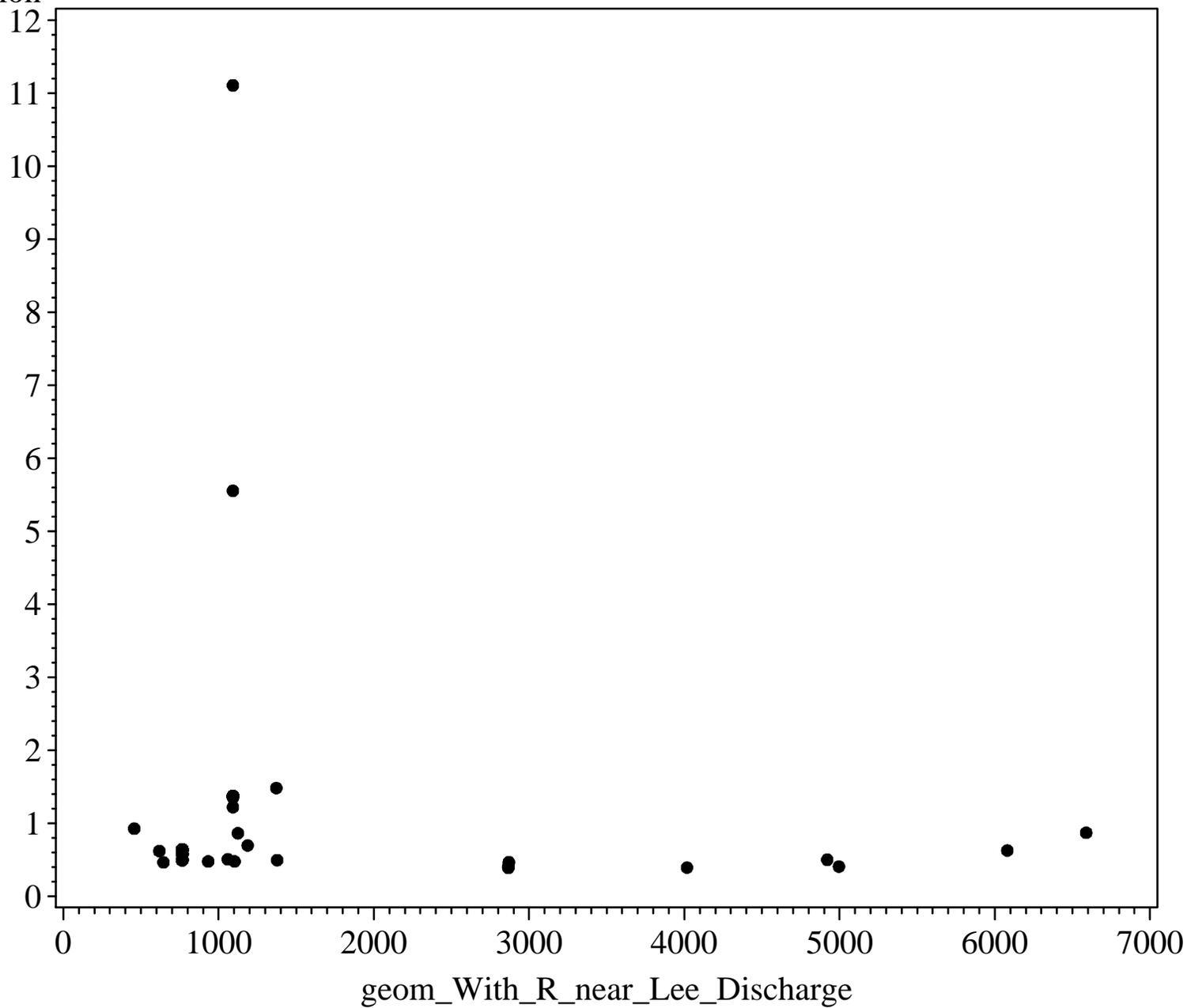
Percent Composition of Taxonomic Families vs. 30 Day Geometric Mean Withlacoochee Flow (at Lee)
family=Naididae

Percent Composition

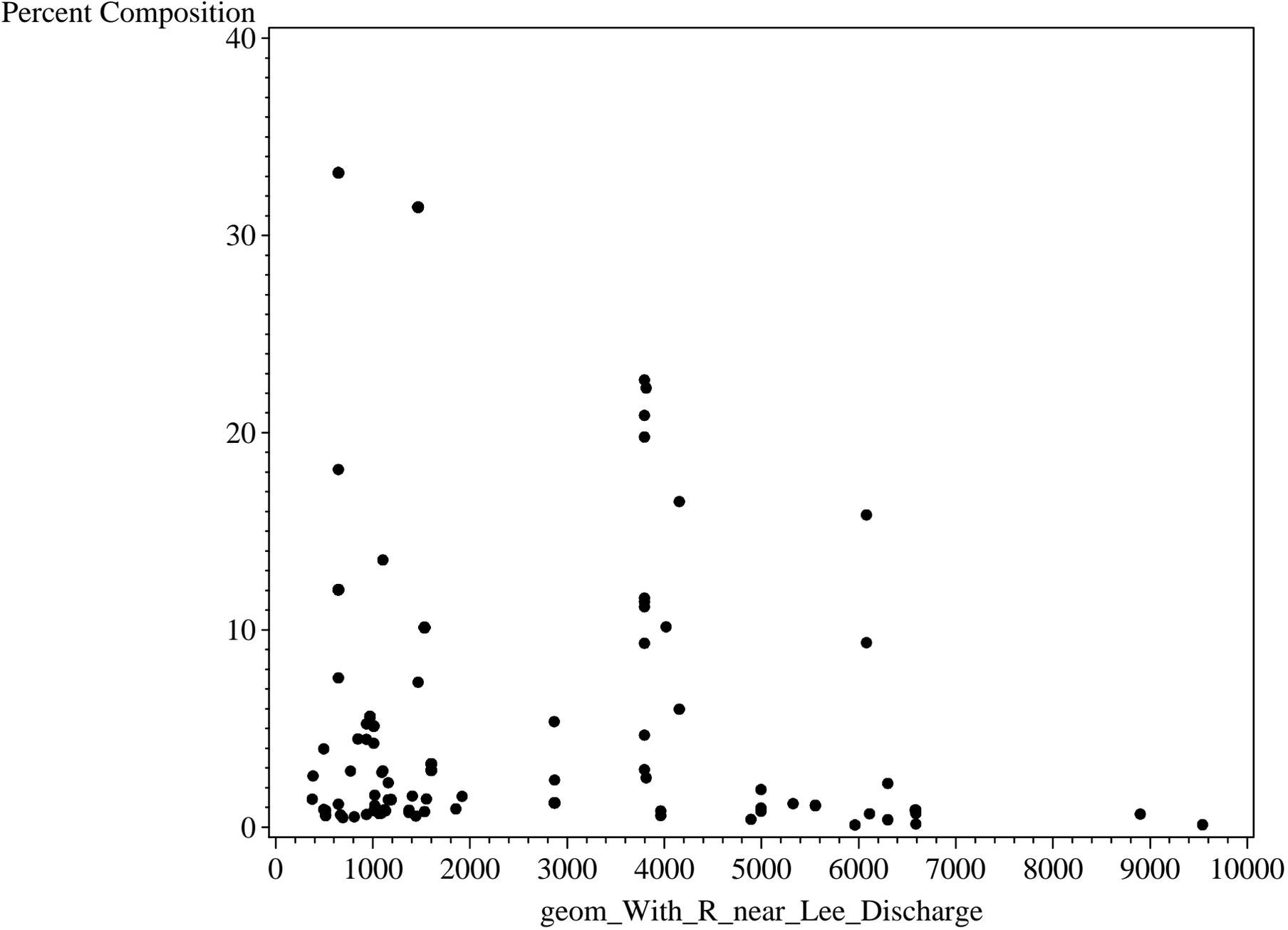


Percent Composition of Taxonomic Families vs. 30 Day Geometric Mean Withlacoochee Flow (at Lee)
family=Perlidae

Percent Composition

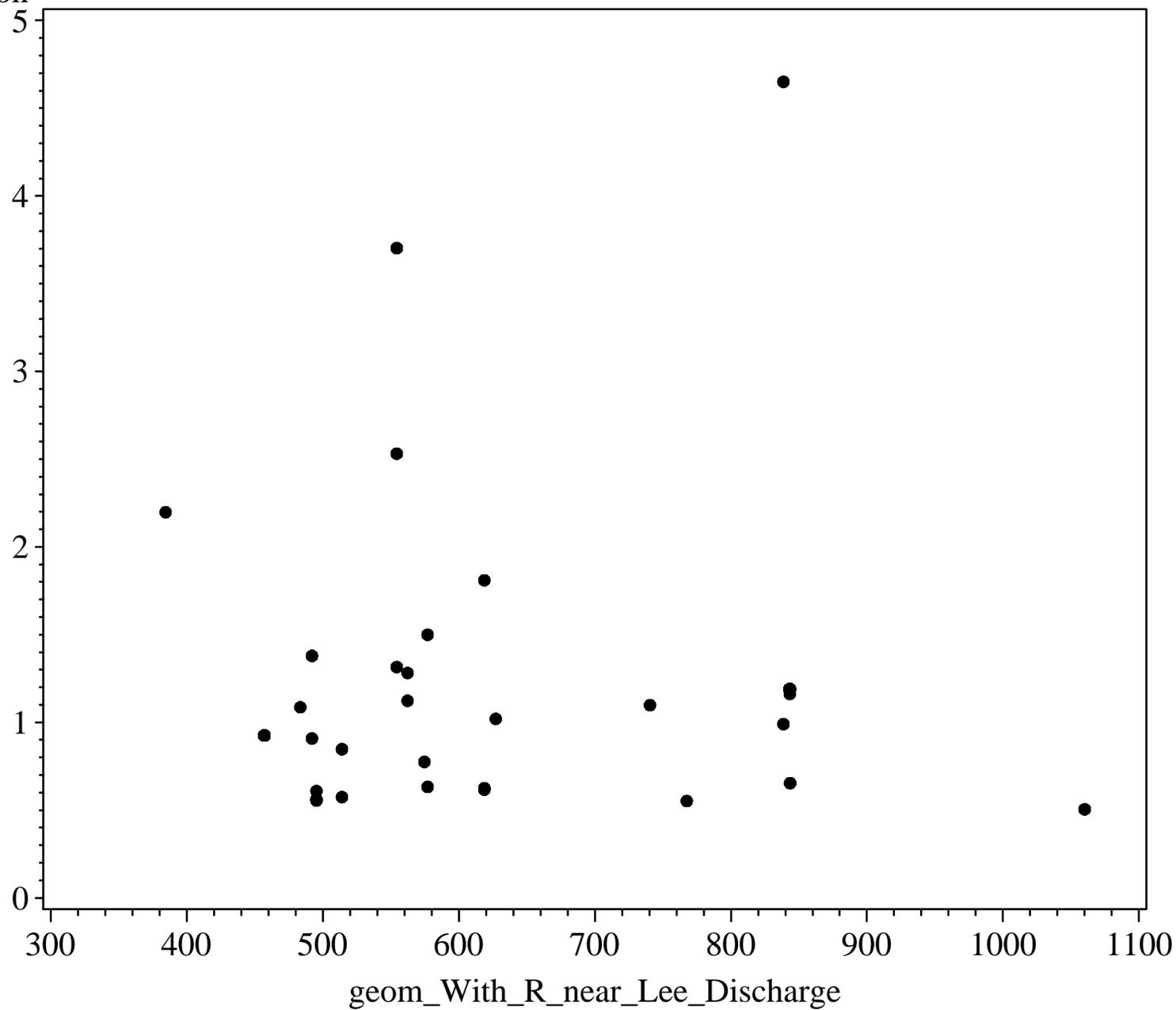


Percent Composition of Taxonomic Families vs. 30 Day Geometric Mean Withlacoochee Flow (at Lee)
family=Philopotamid



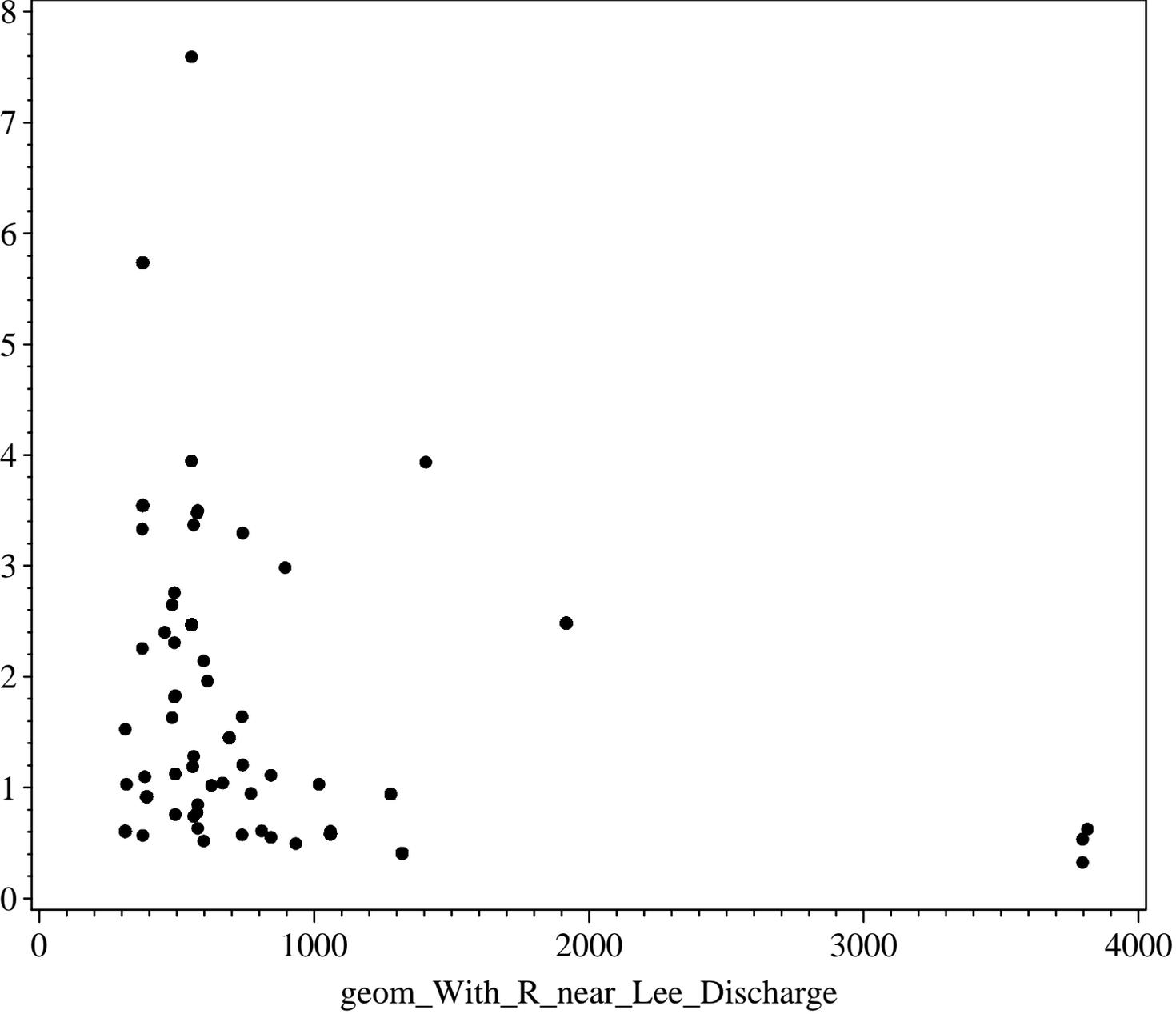
Percent Composition of Taxonomic Families vs. 30 Day Geometric Mean Withlacoochee Flow (at Lee)
family=Physidae

Percent Composition

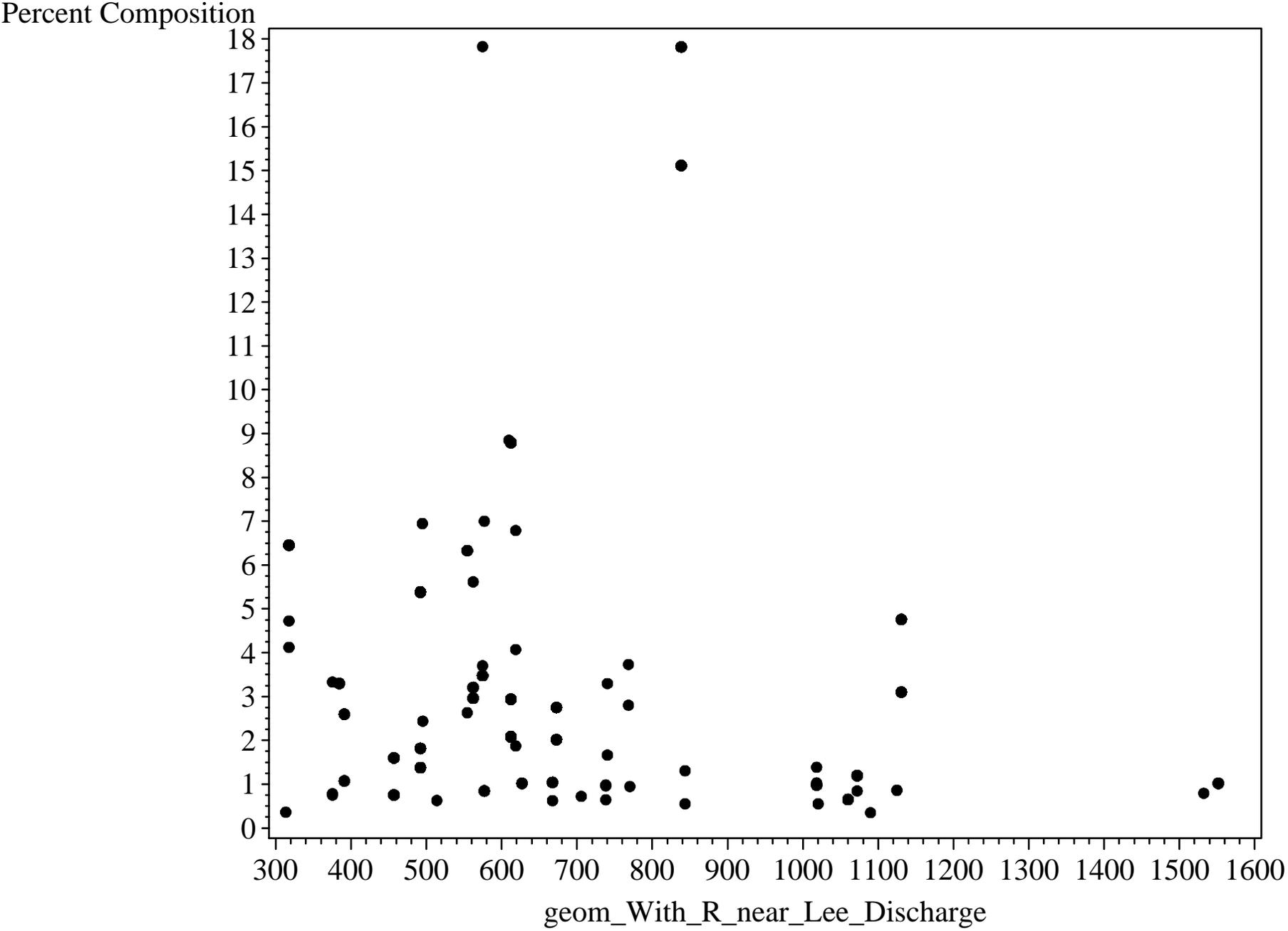


Percent Composition of Taxonomic Families vs. 30 Day Geometric Mean Withlacoochee Flow (at Lee)
family=Planariidae

Percent Composition

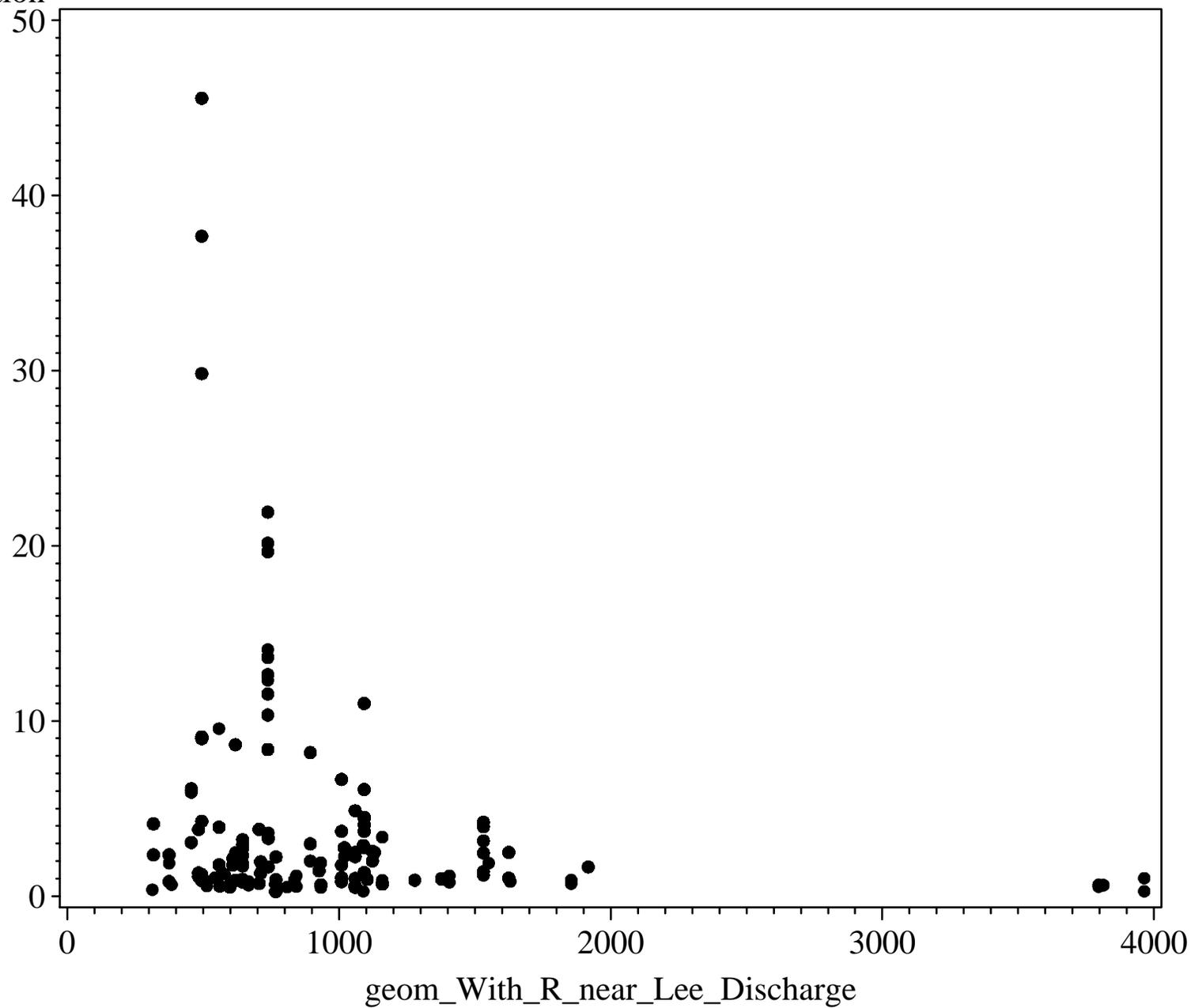


Percent Composition of Taxonomic Families vs. 30 Day Geometric Mean Withlacoochee Flow (at Lee)
family=Planorbidae

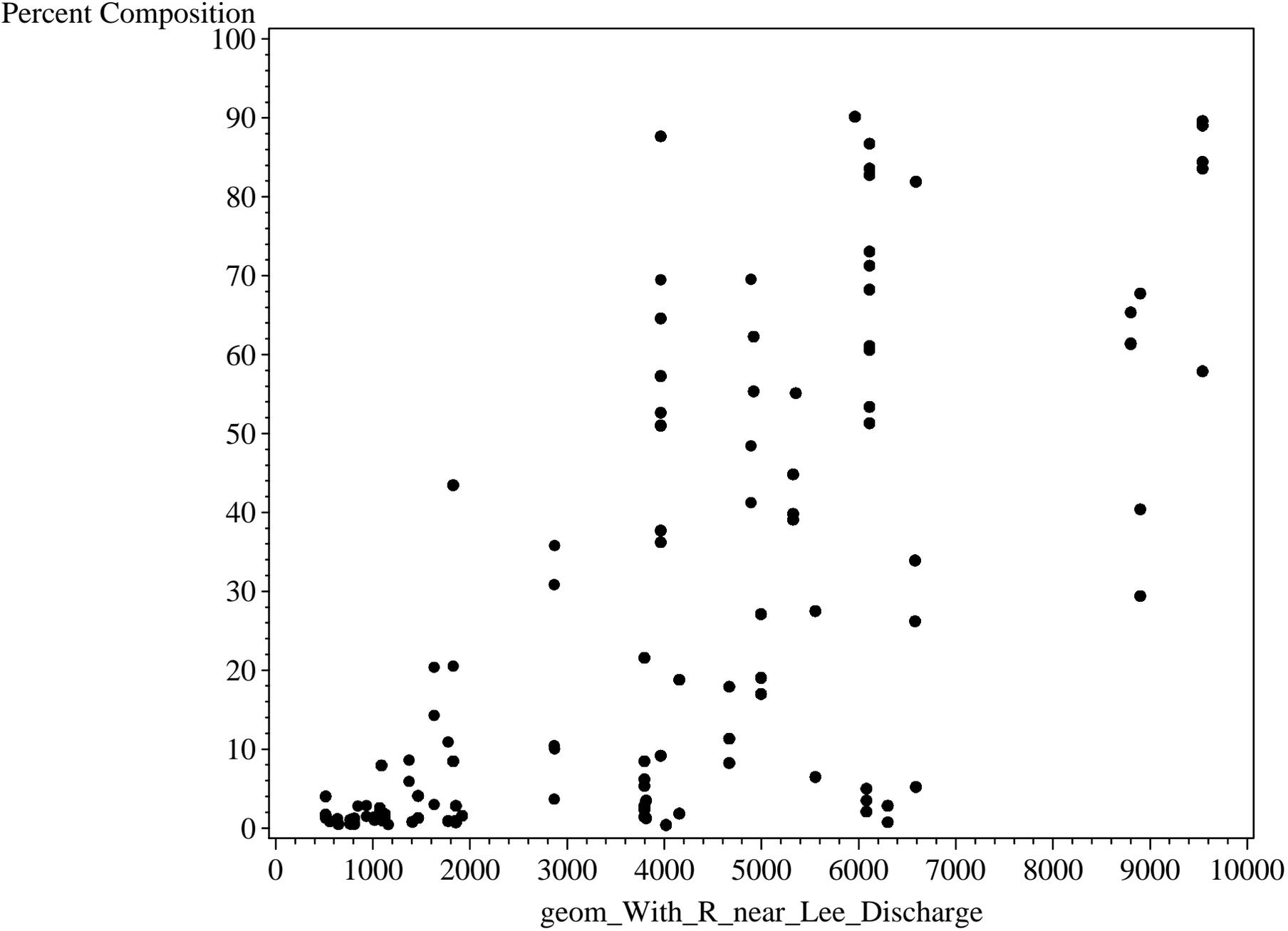


Percent Composition of Taxonomic Families vs. 30 Day Geometric Mean Withlacoochee Flow (at Lee)
family=Polycentropo

Percent Composition

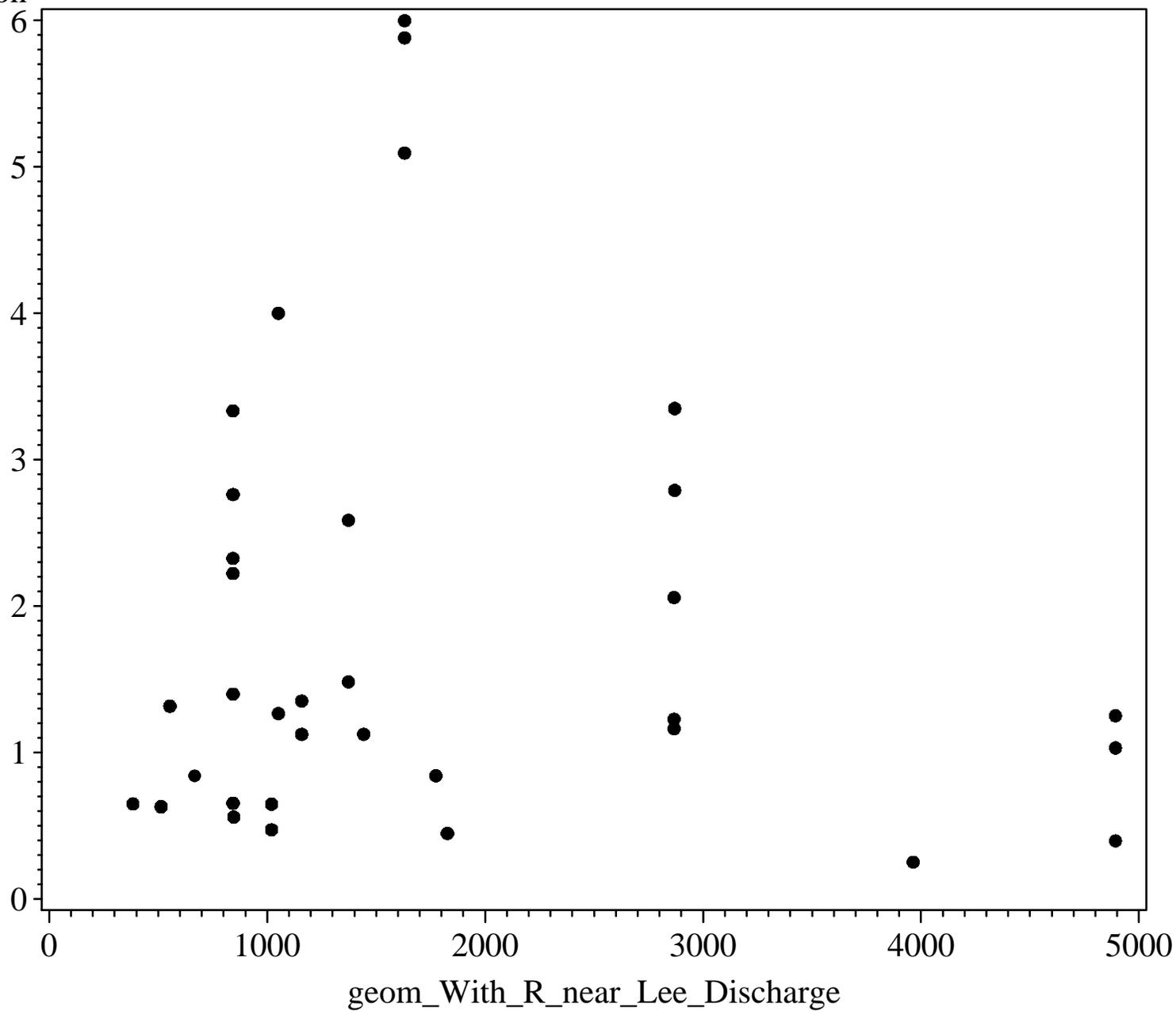


Percent Composition of Taxonomic Families vs. 30 Day Geometric Mean Withlacoochee Flow (at Lee)
family=Simuliidae



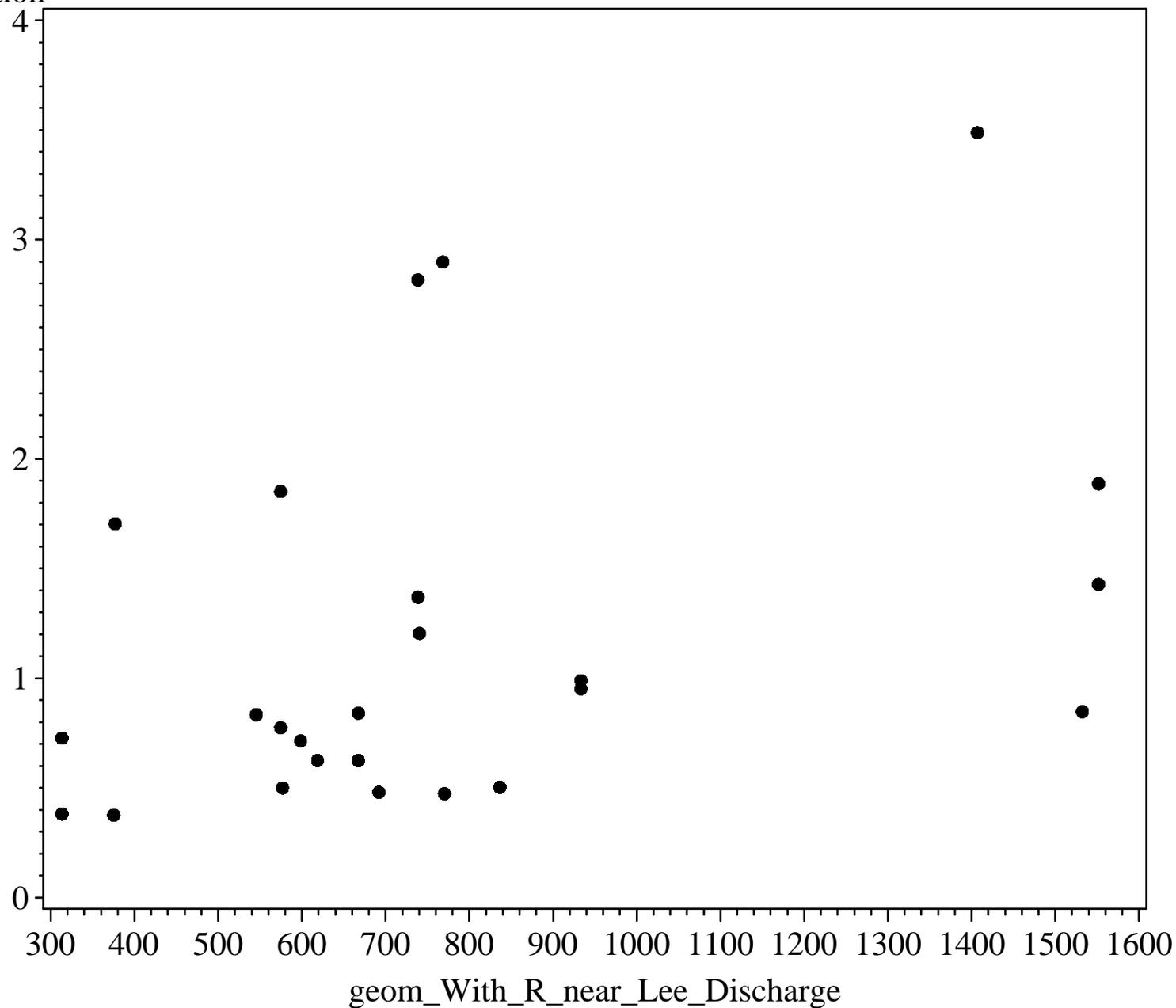
Percent Composition of Taxonomic Families vs. 30 Day Geometric Mean Withlacoochee Flow (at Lee)
family=Taeniopteryg

Percent Composition



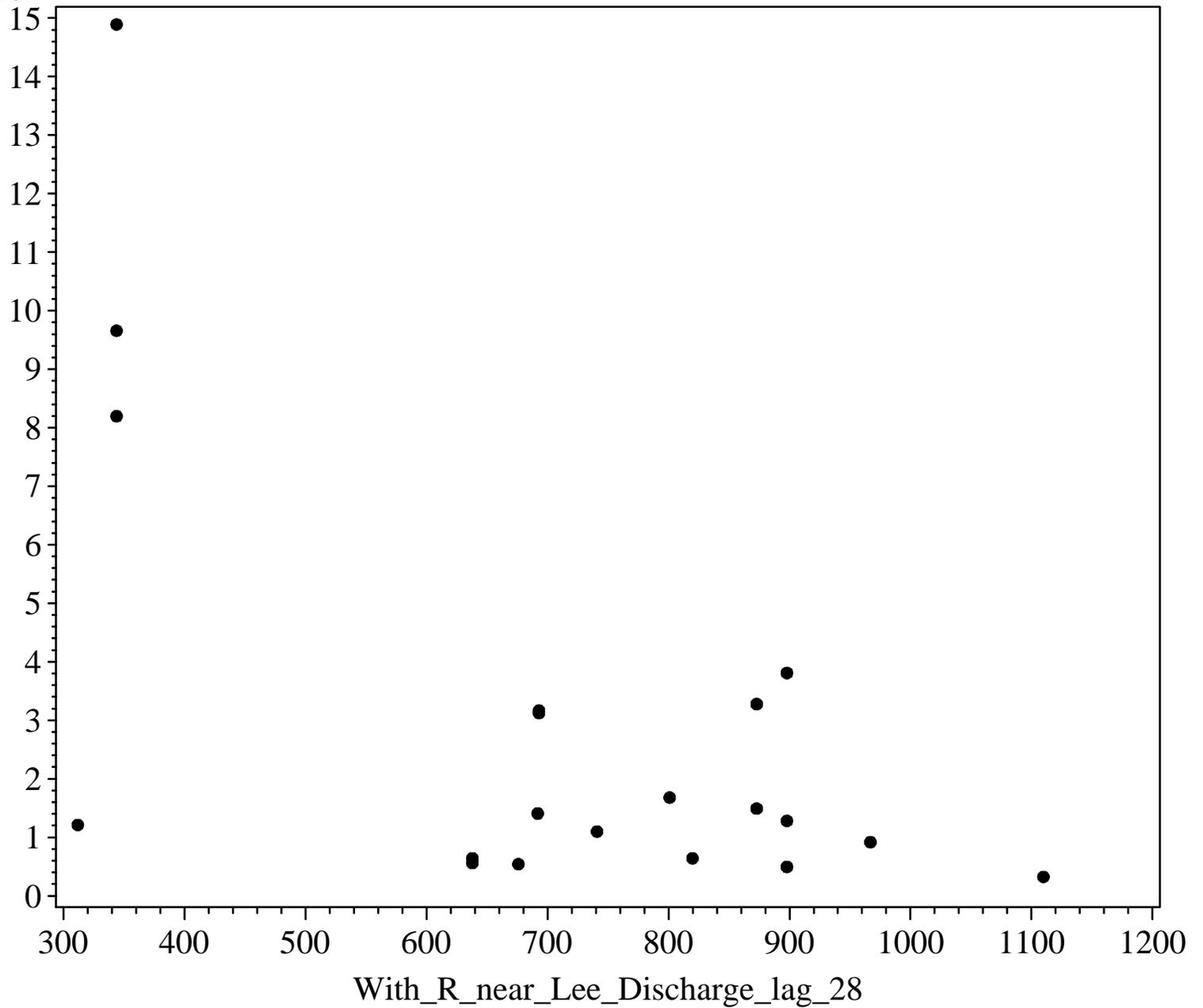
Percent Composition of Taxonomic Families vs. 30 Day Geometric Mean Withlacoochee Flow (at Lee)
family=Tetrastemmat

Percent Composition



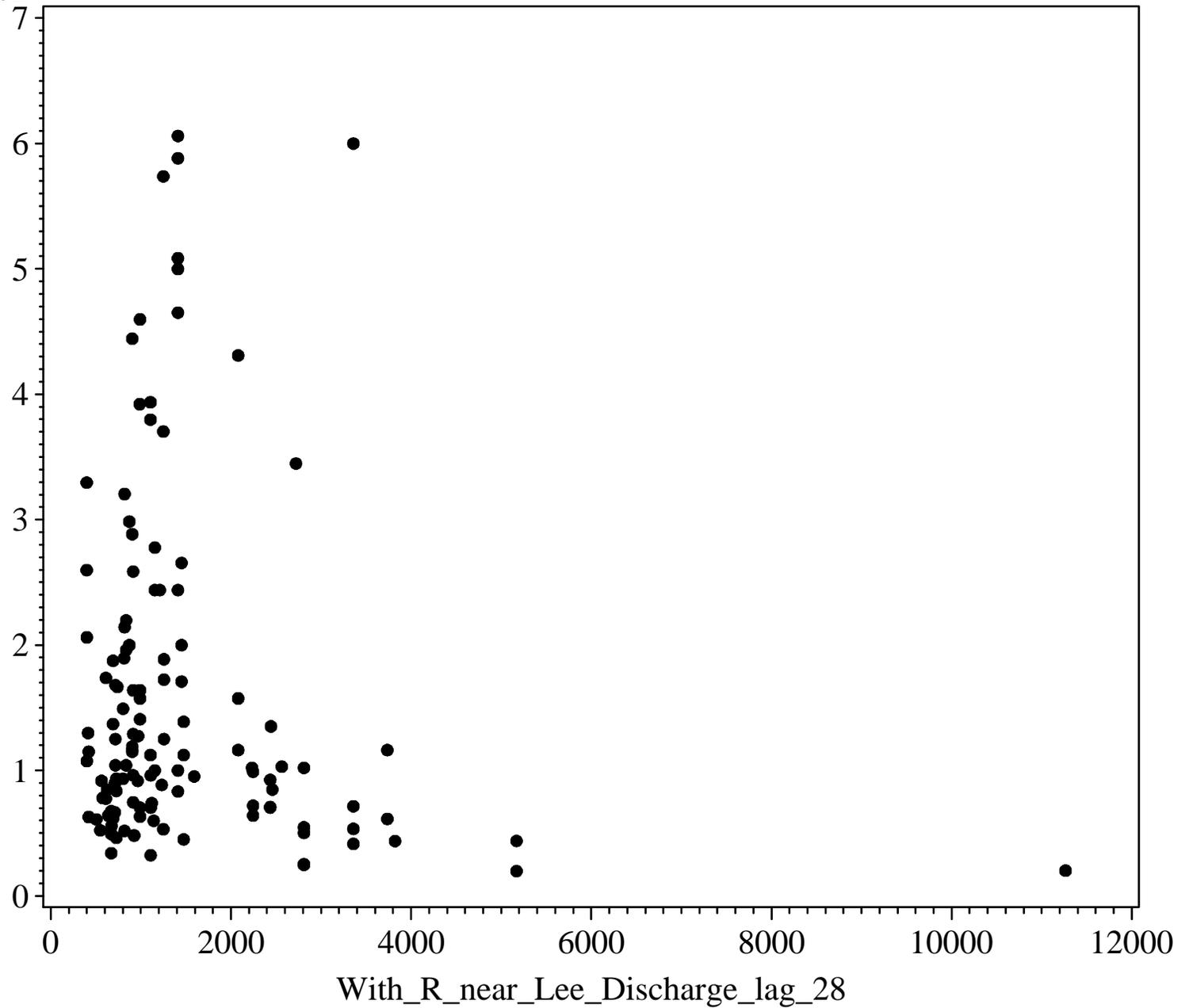
Percent Composition of Taxonomic Families vs. 28 Day Lag Withlacoochee Flow (at Lee)
family=Aeolosomatid

Percent Composition



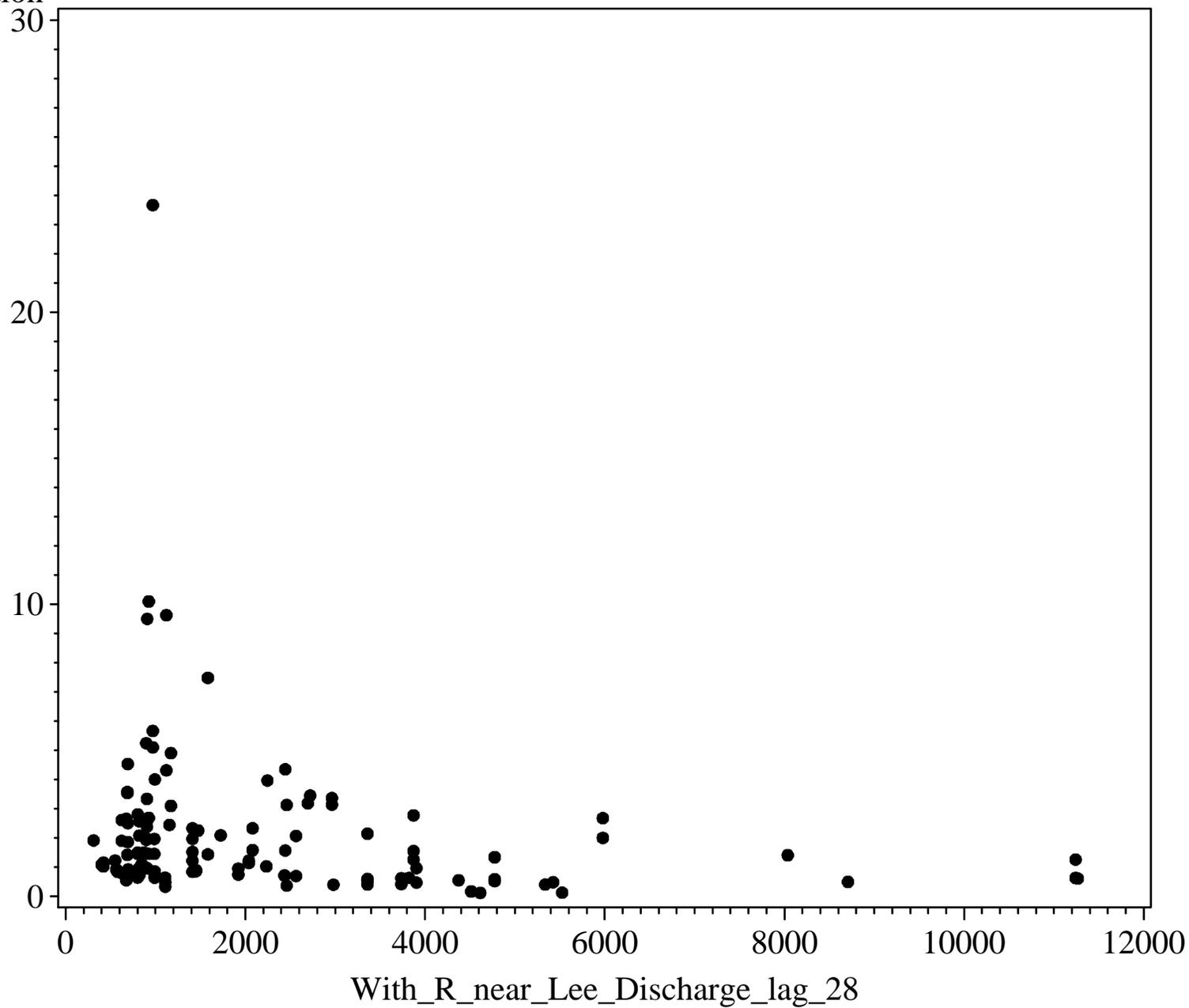
Percent Composition of Taxonomic Families vs. 28 Day Lag Withlacoochee Flow (at Lee)
family=Ancylidae

Percent Composition



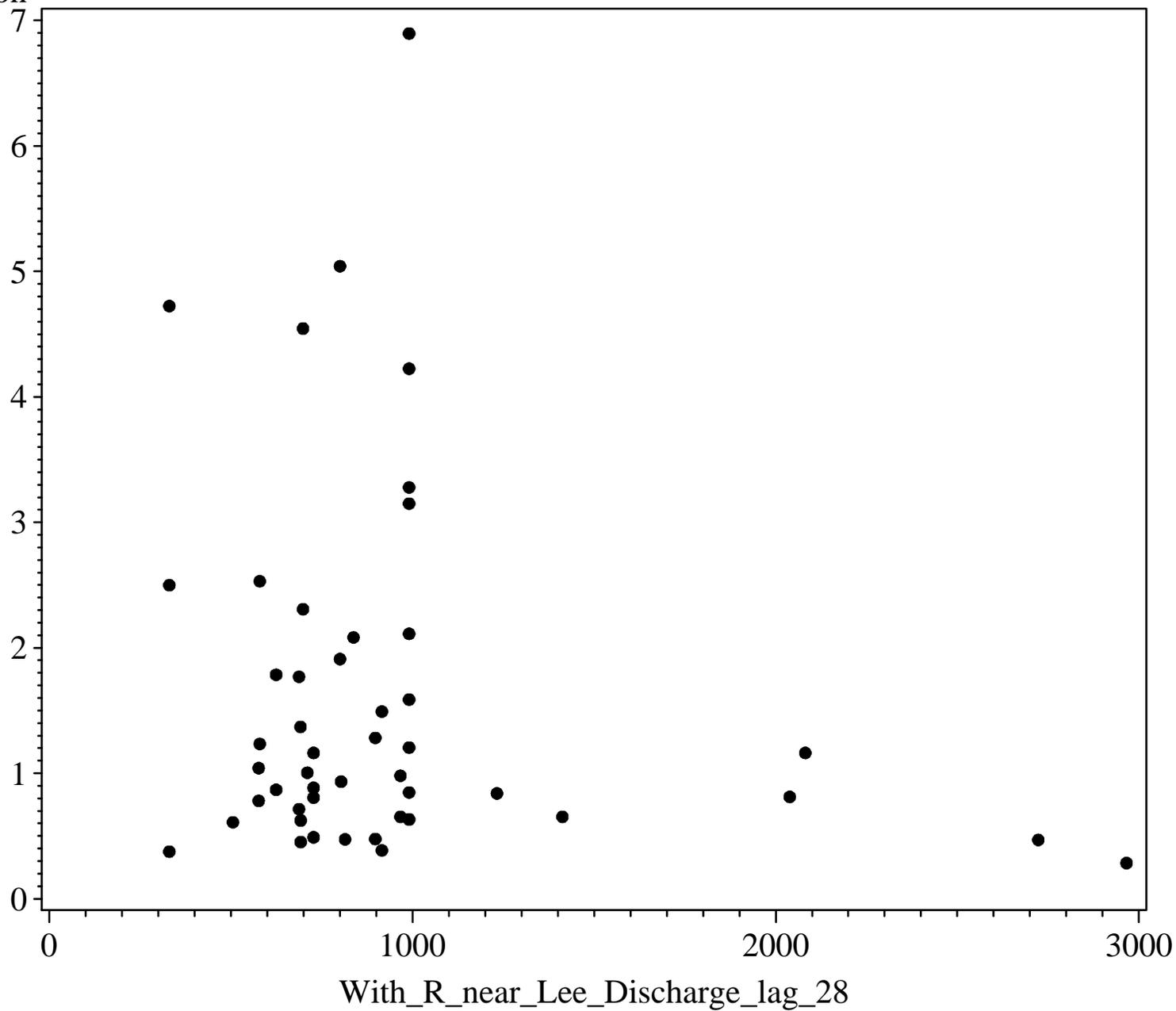
Percent Composition of Taxonomic Families vs. 28 Day Lag Withlacoochee Flow (at Lee)
family=Baetidae

Percent Composition



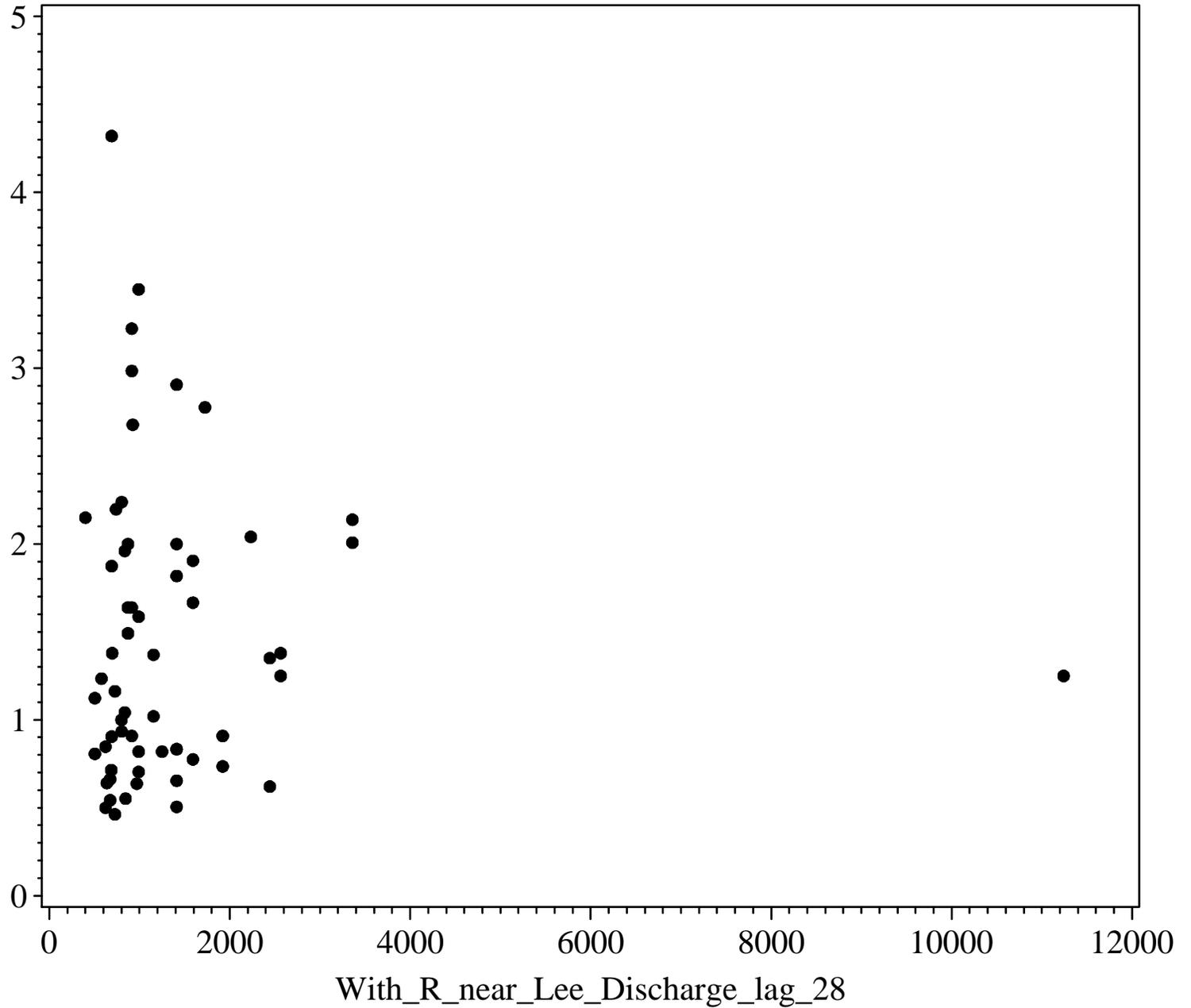
Percent Composition of Taxonomic Families vs. 28 Day Lag Withlacoochee Flow (at Lee)
family=Caenidae

Percent Composition



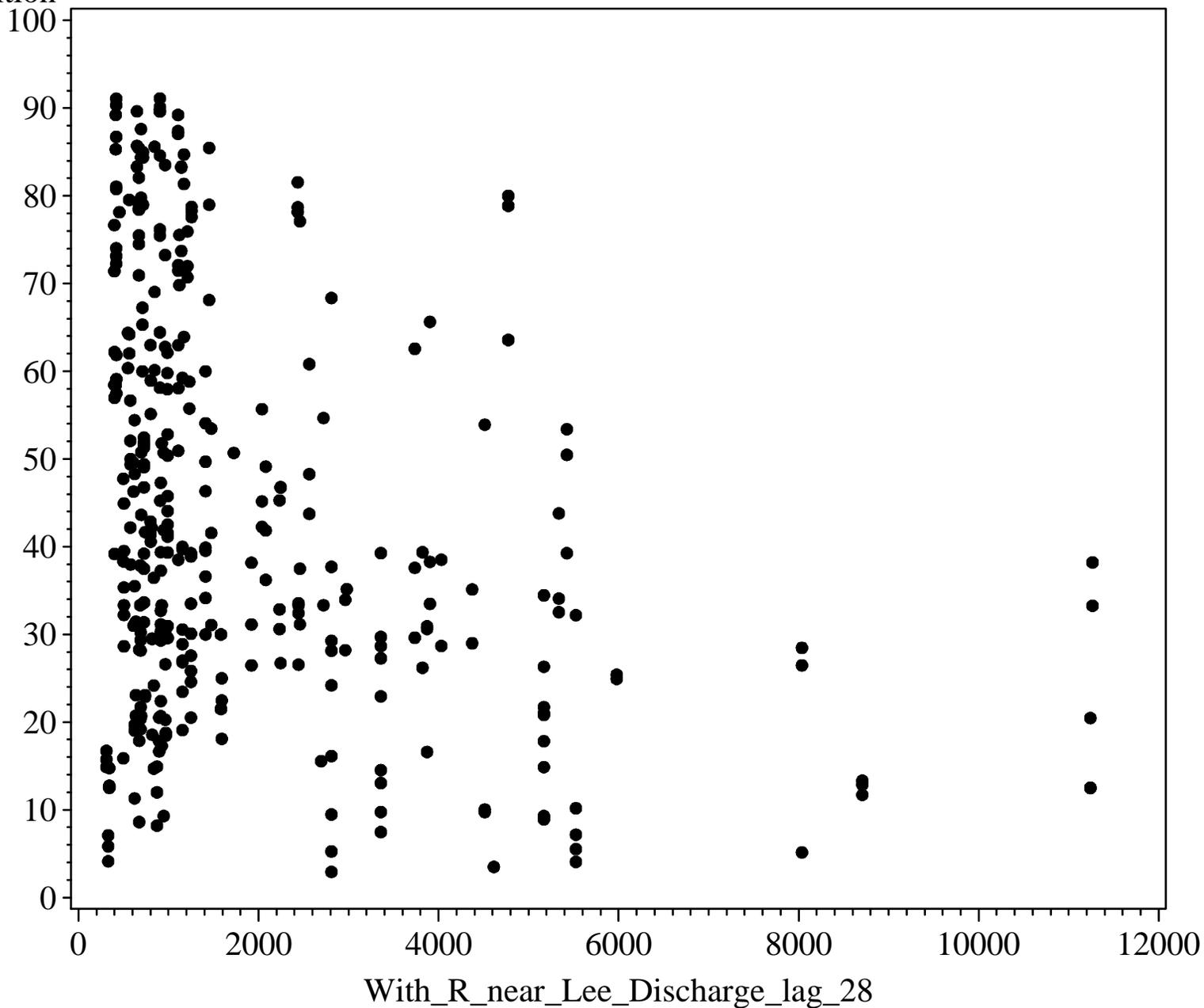
Percent Composition of Taxonomic Families vs. 28 Day Lag Withlacoochee Flow (at Lee)
family=Ceratopogoni

Percent Composition



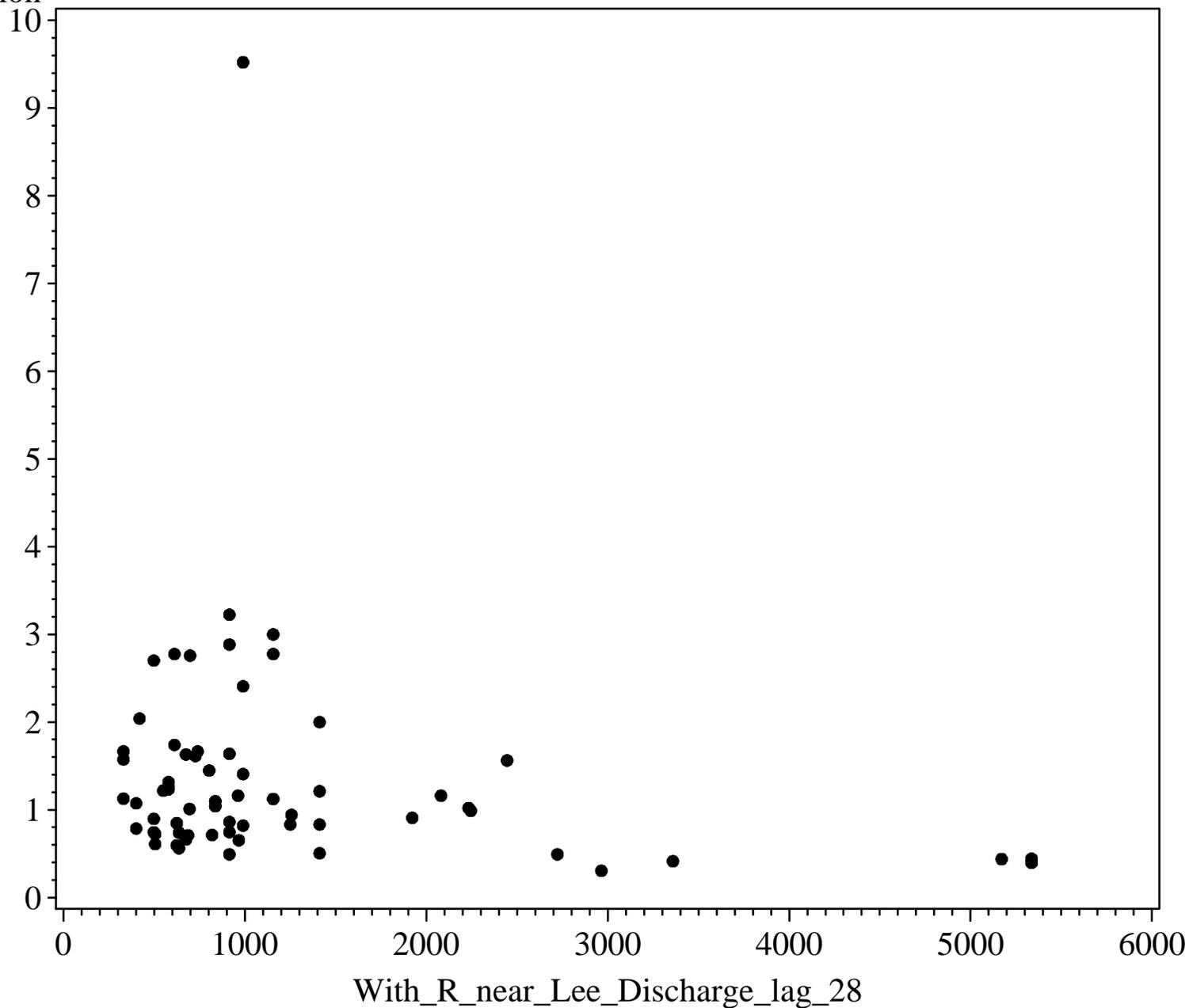
Percent Composition of Taxonomic Families vs. 28 Day Lag Withlacoochee Flow (at Lee)
family=Chironomidae

Percent Composition



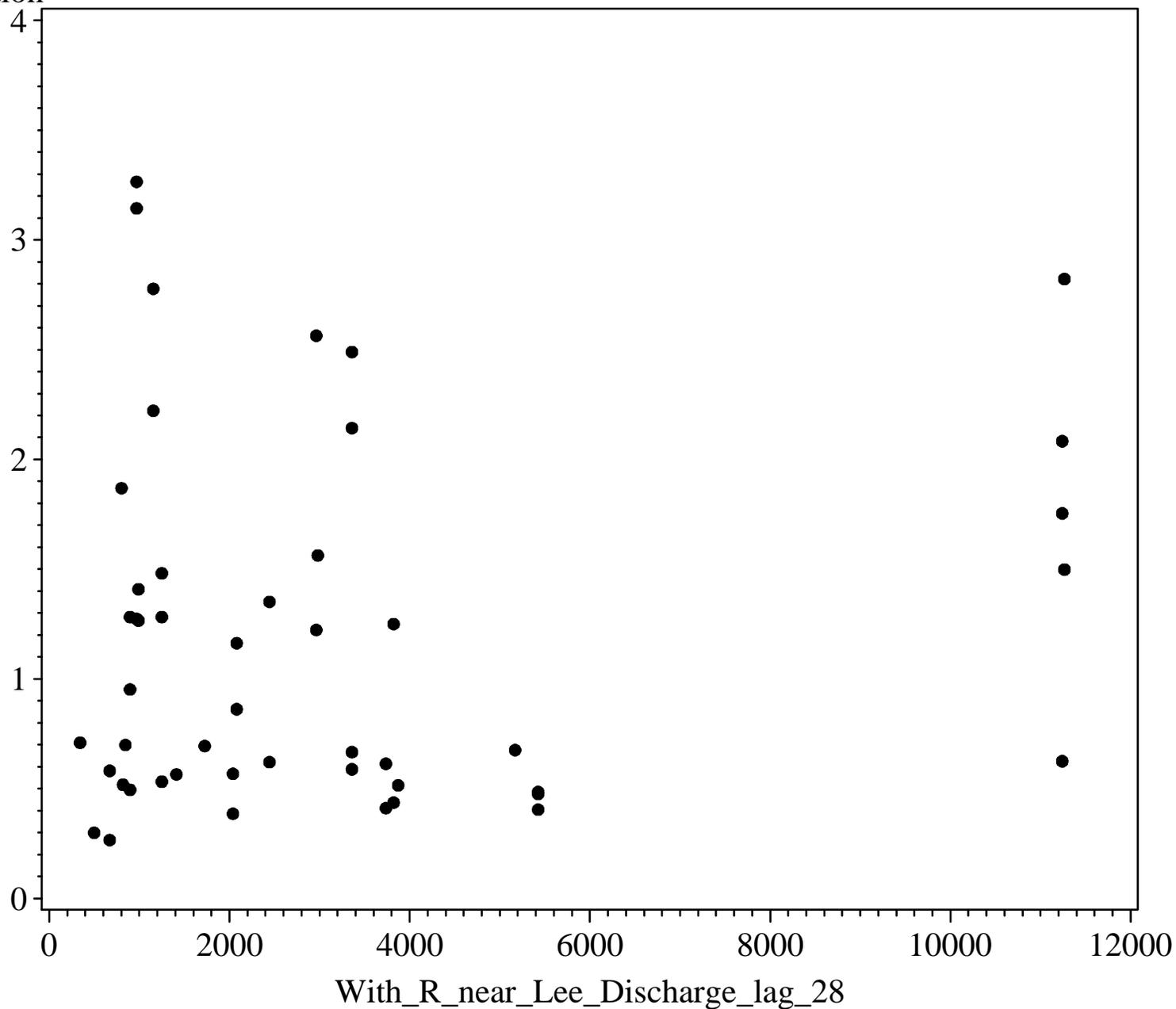
Percent Composition of Taxonomic Families vs. 28 Day Lag Withlacoochee Flow (at Lee)
family=Coenagrionid

Percent Composition



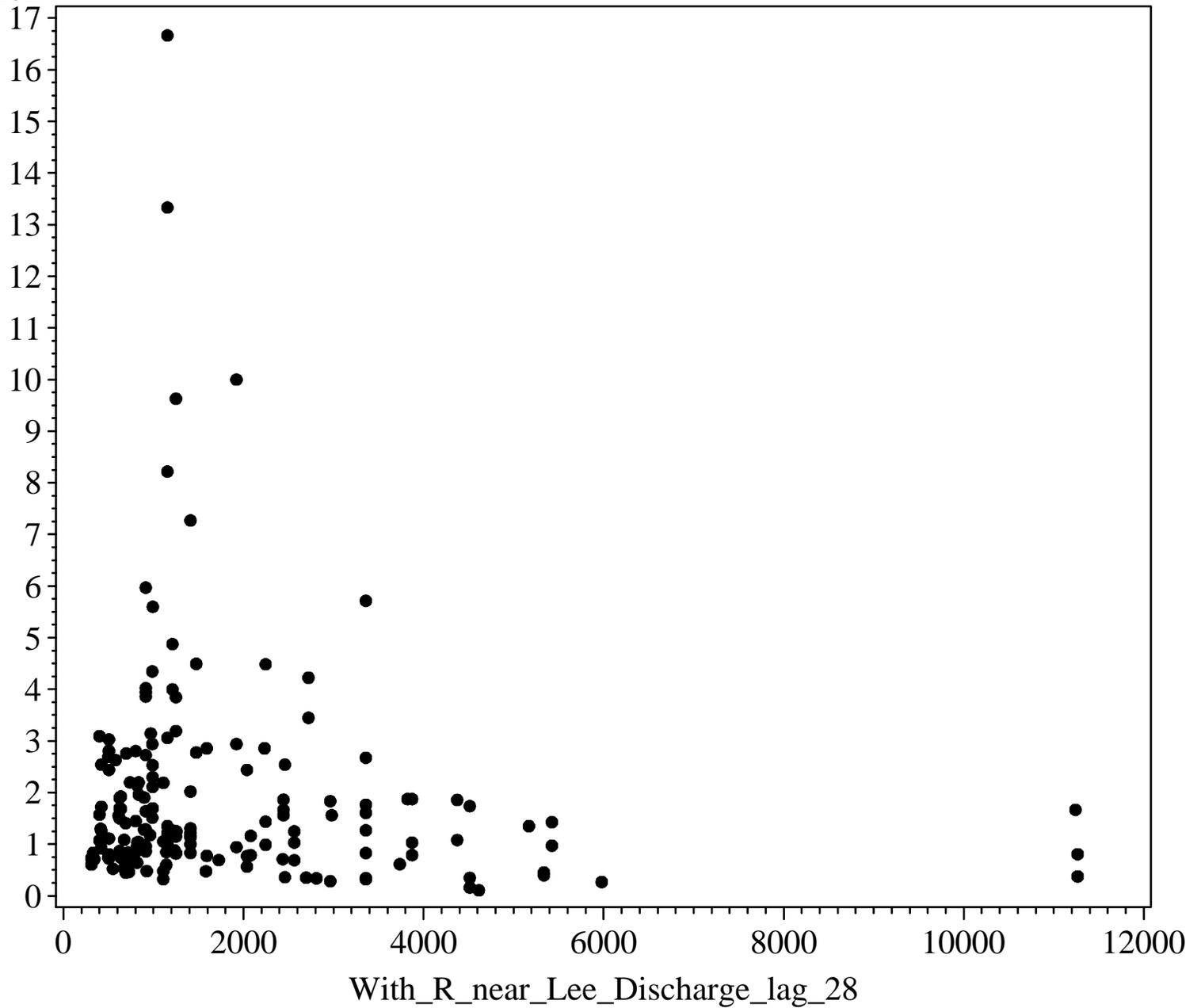
Percent Composition of Taxonomic Families vs. 28 Day Lag Withlacoochee Flow (at Lee)
family=Corydalidae

Percent Composition



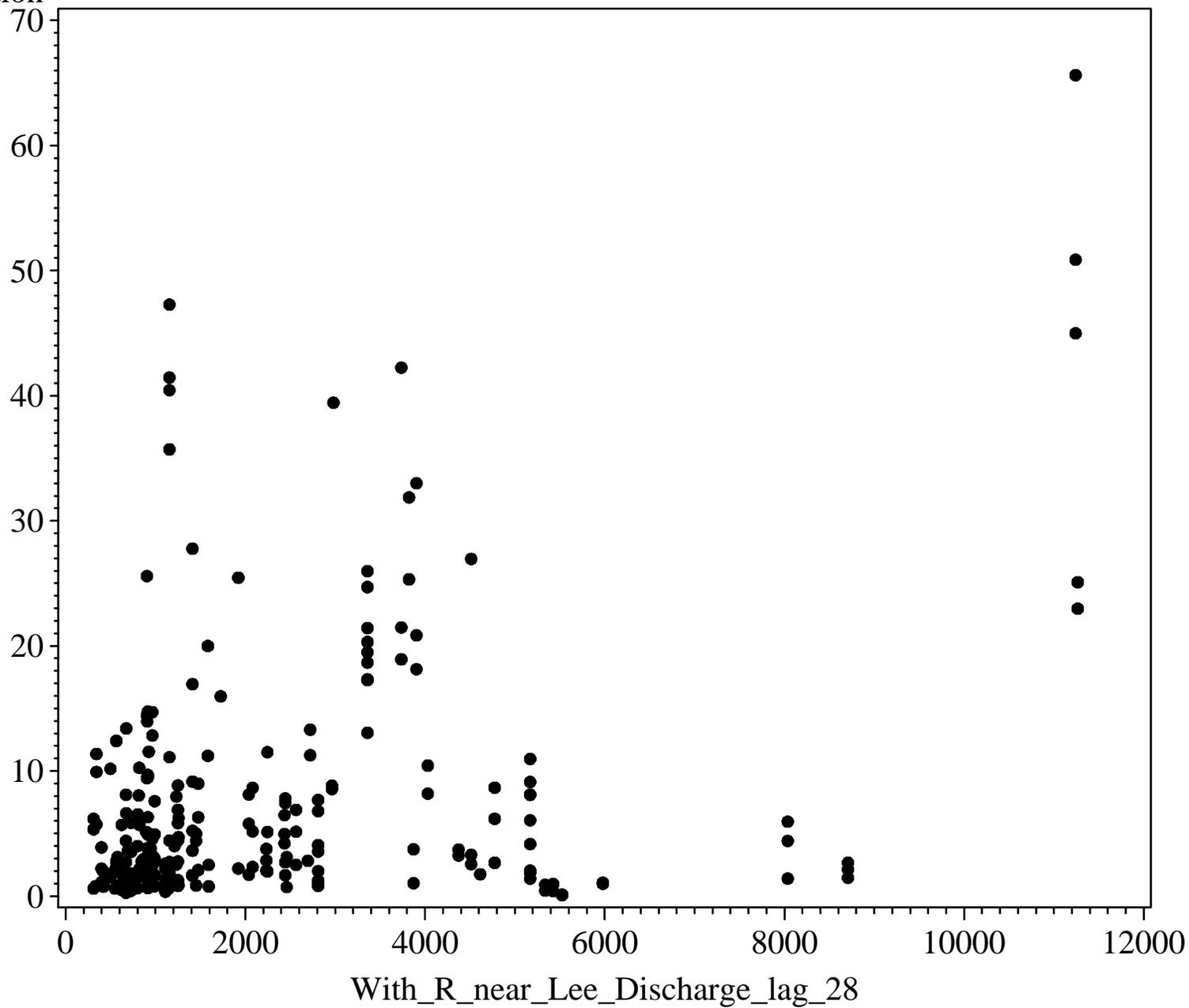
Percent Composition of Taxonomic Families vs. 28 Day Lag Withlacoochee Flow (at Lee)
family=Elmidae

Percent Composition



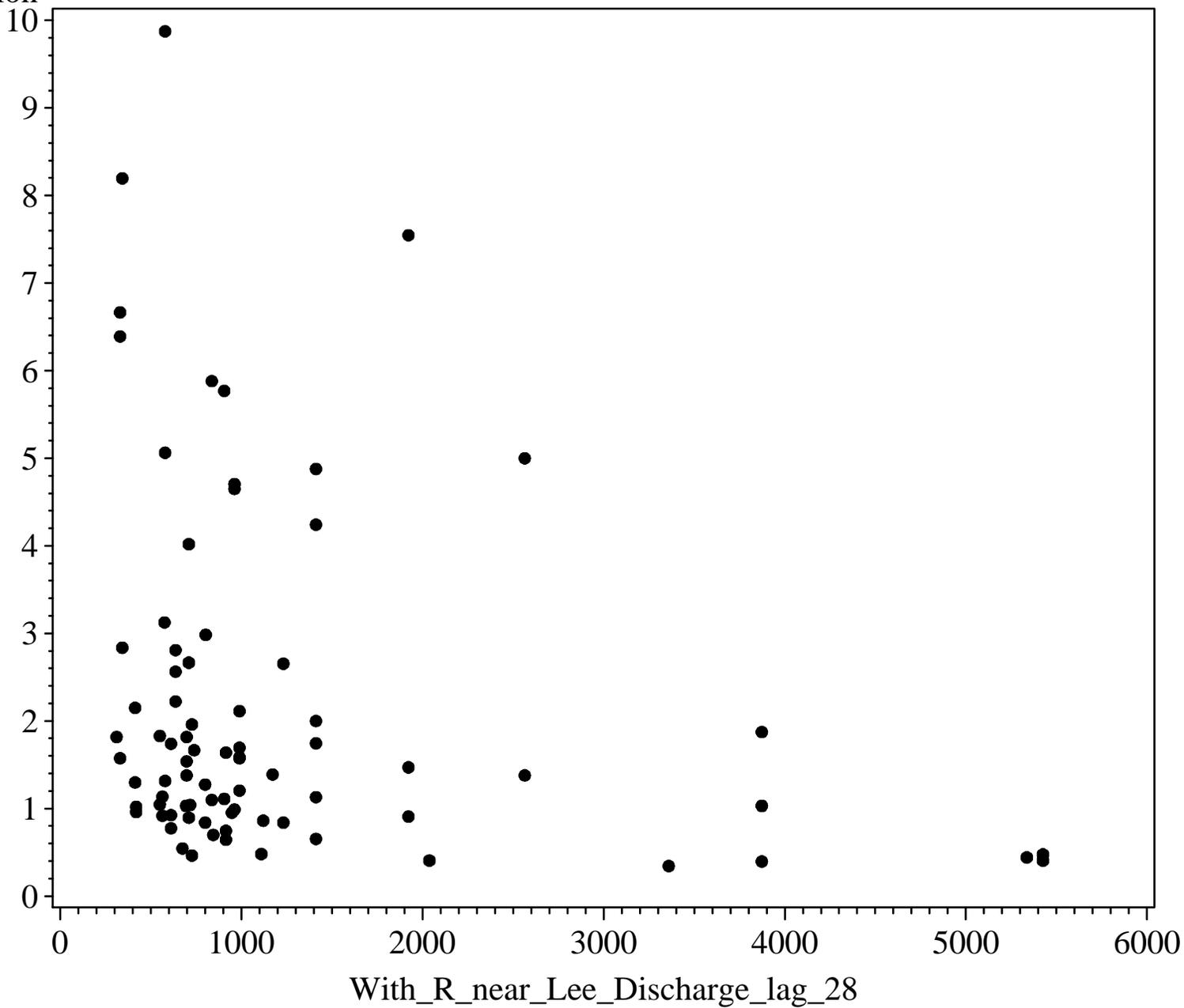
Percent Composition of Taxonomic Families vs. 28 Day Lag Withlacoochee Flow (at Lee)
family=Heptageniida

Percent Composition



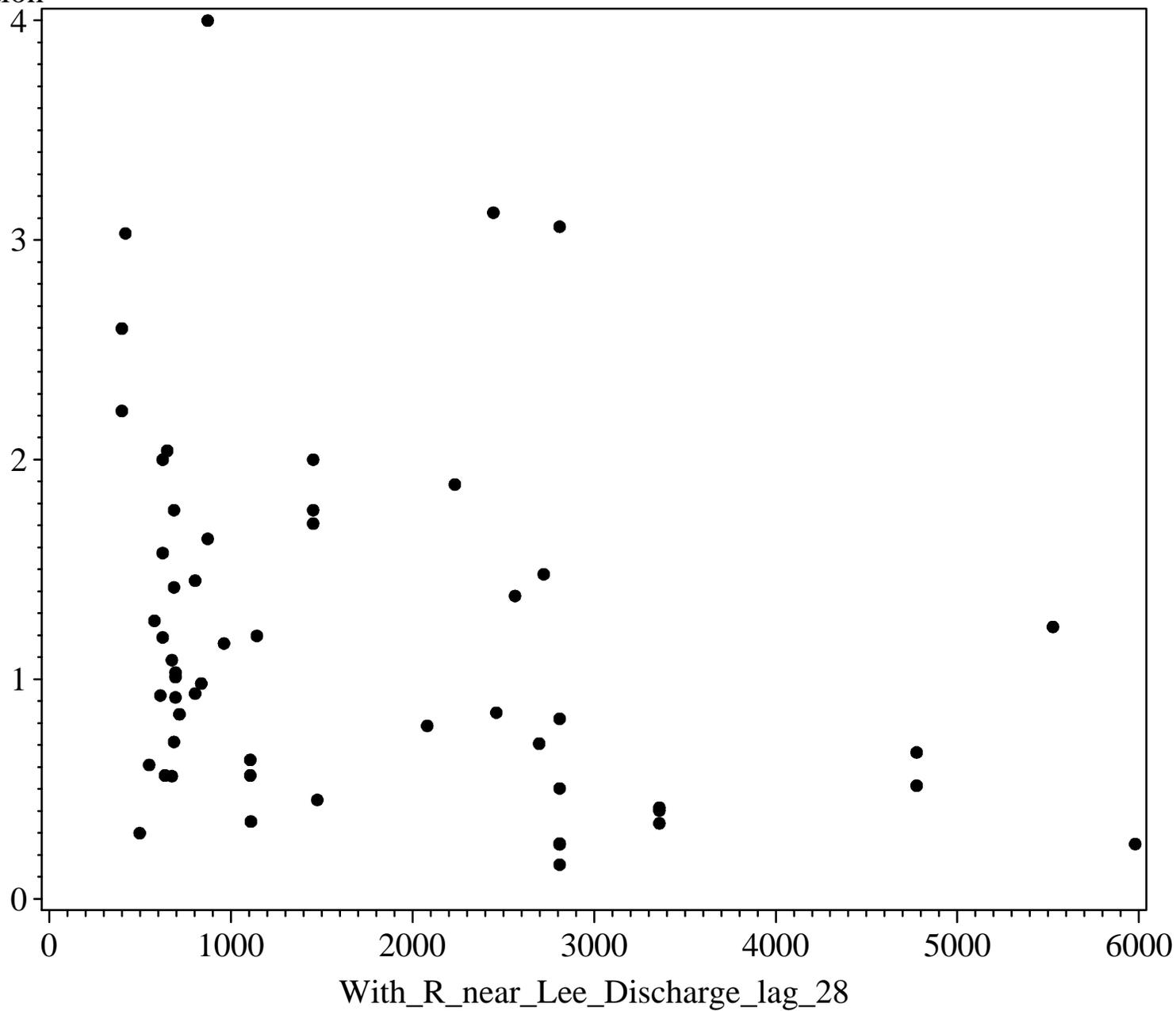
Percent Composition of Taxonomic Families vs. 28 Day Lag Withlacoochee Flow (at Lee)
family=Hyaletellidae

Percent Composition



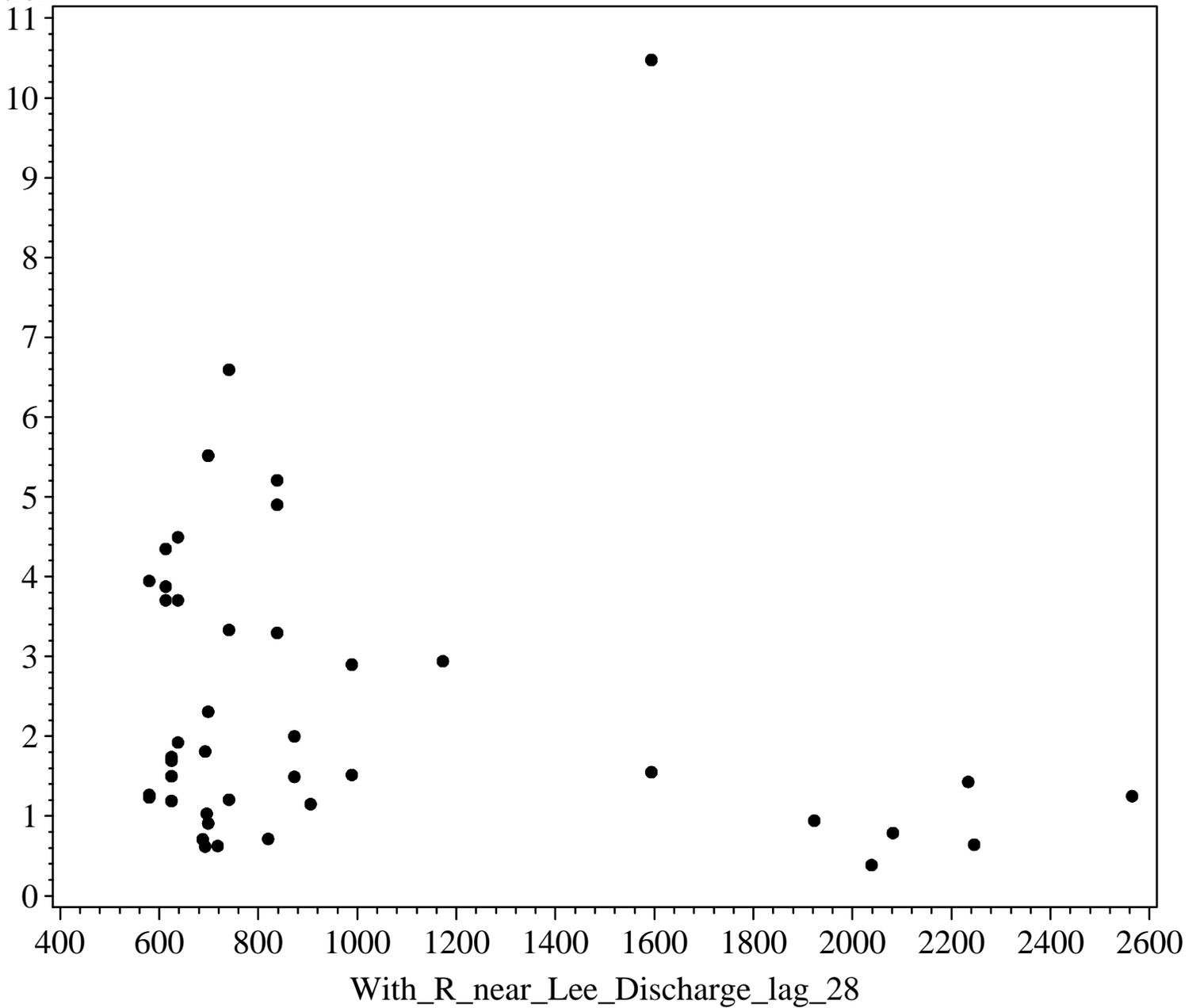
Percent Composition of Taxonomic Families vs. 28 Day Lag Withlacoochee Flow (at Lee)
family=Hydridae

Percent Composition



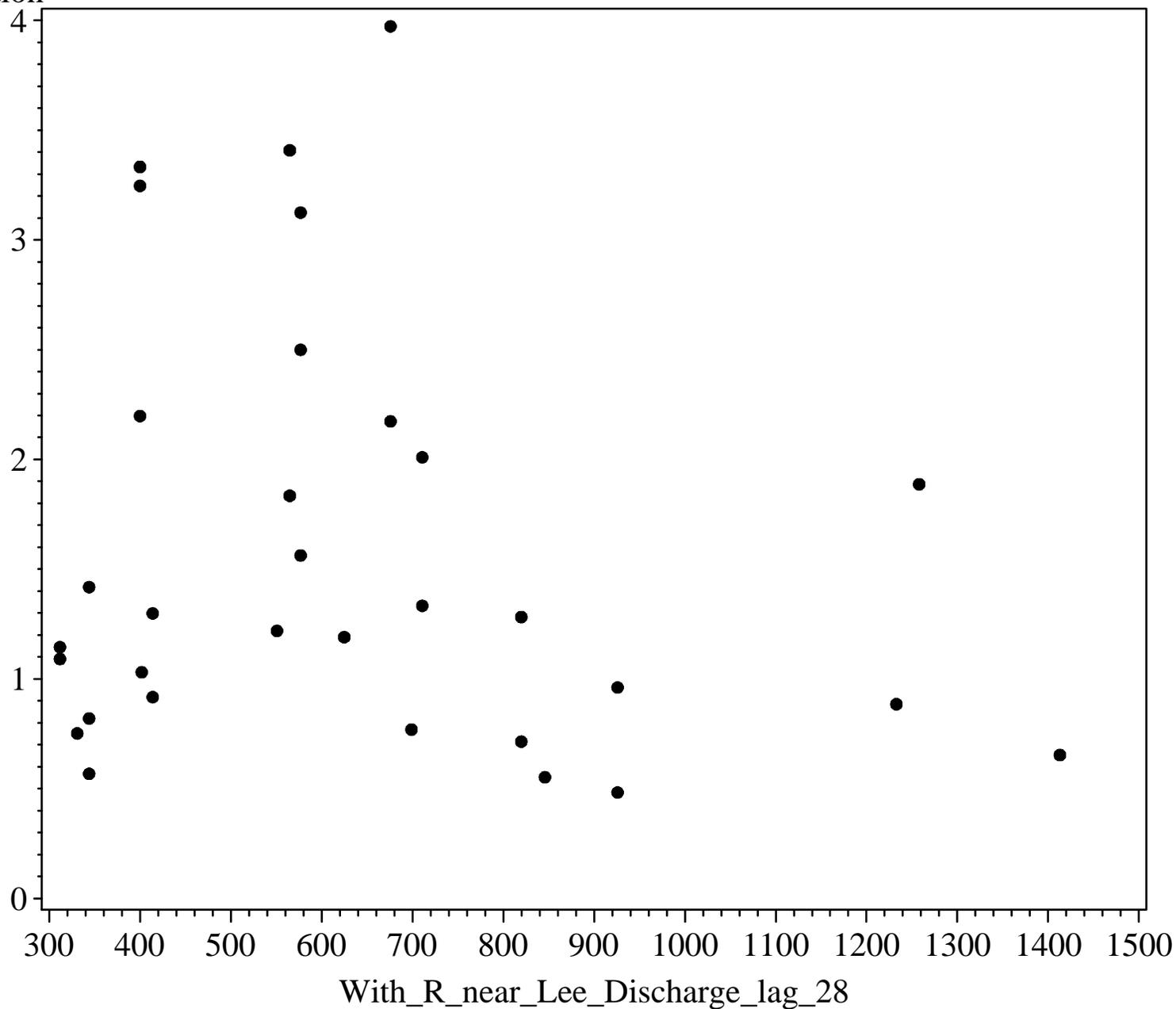
Percent Composition of Taxonomic Families vs. 28 Day Lag Withlacoochee Flow (at Lee)
family=Hydrobiidae

Percent Composition

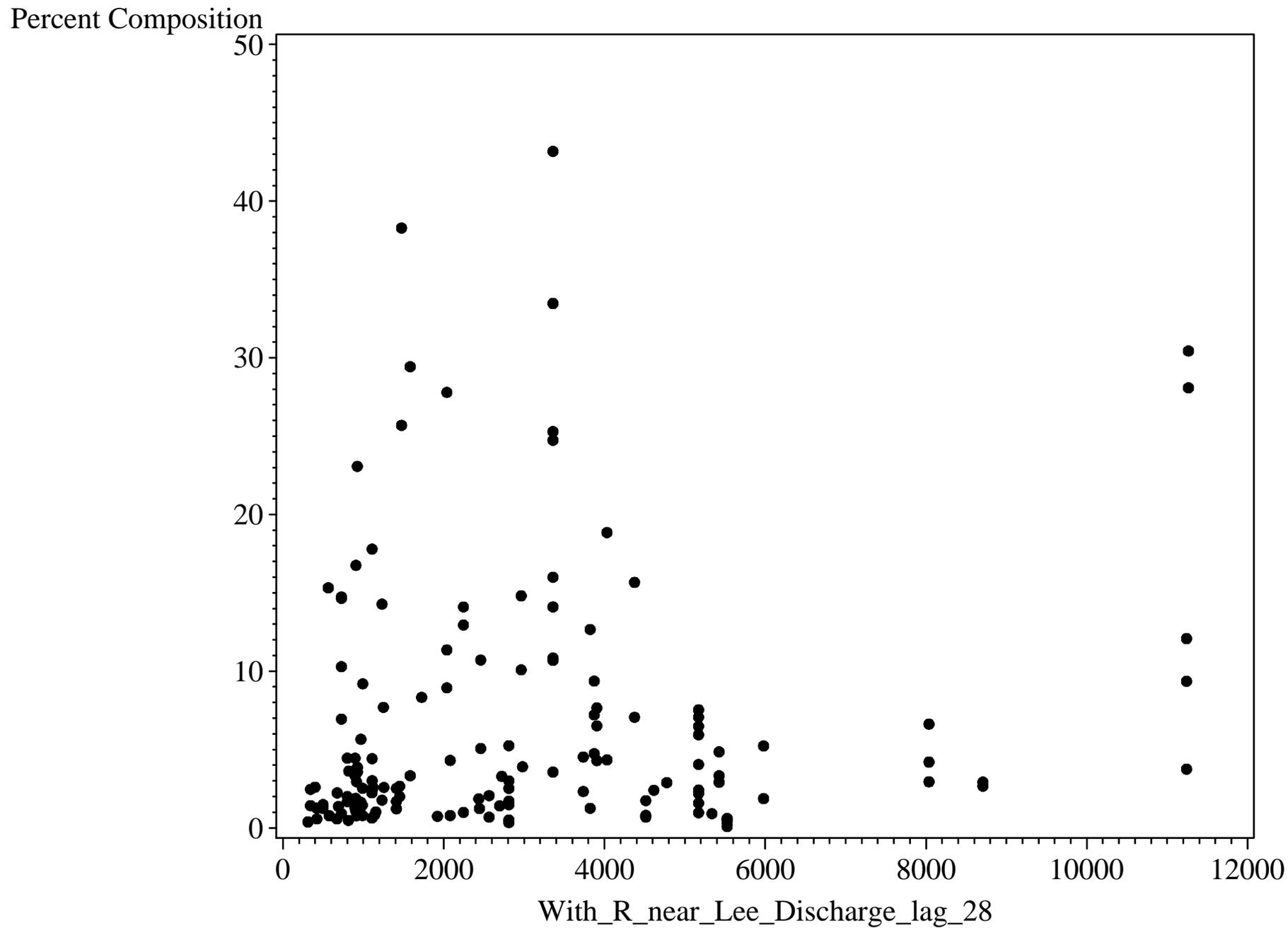


Percent Composition of Taxonomic Families vs. 28 Day Lag Withlacoochee Flow (at Lee)
family=Hydrodromida

Percent Composition

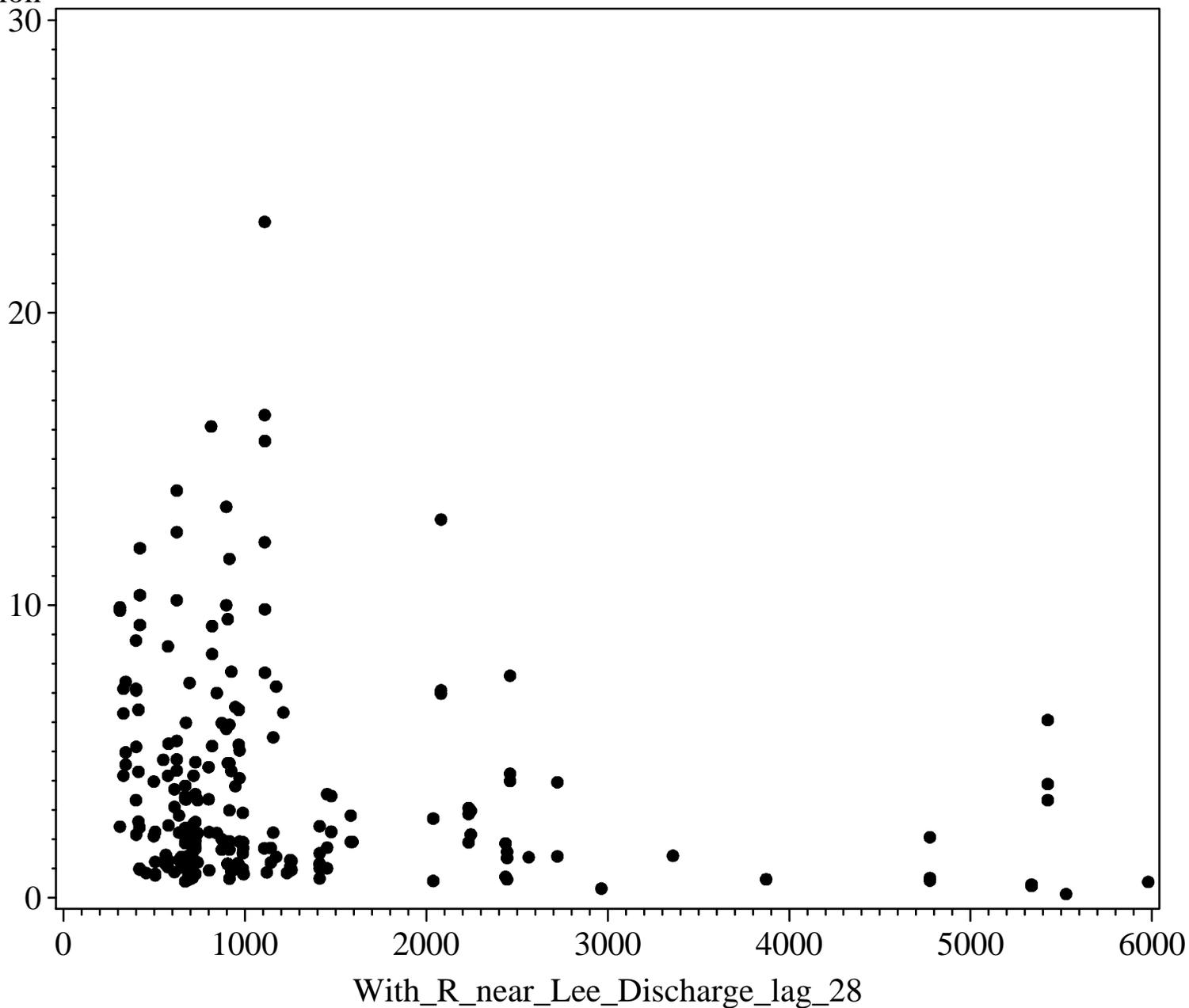


Percent Composition of Taxonomic Families vs. 28 Day Lag Withlacoochee Flow (at Lee)
family=Hydropsychid



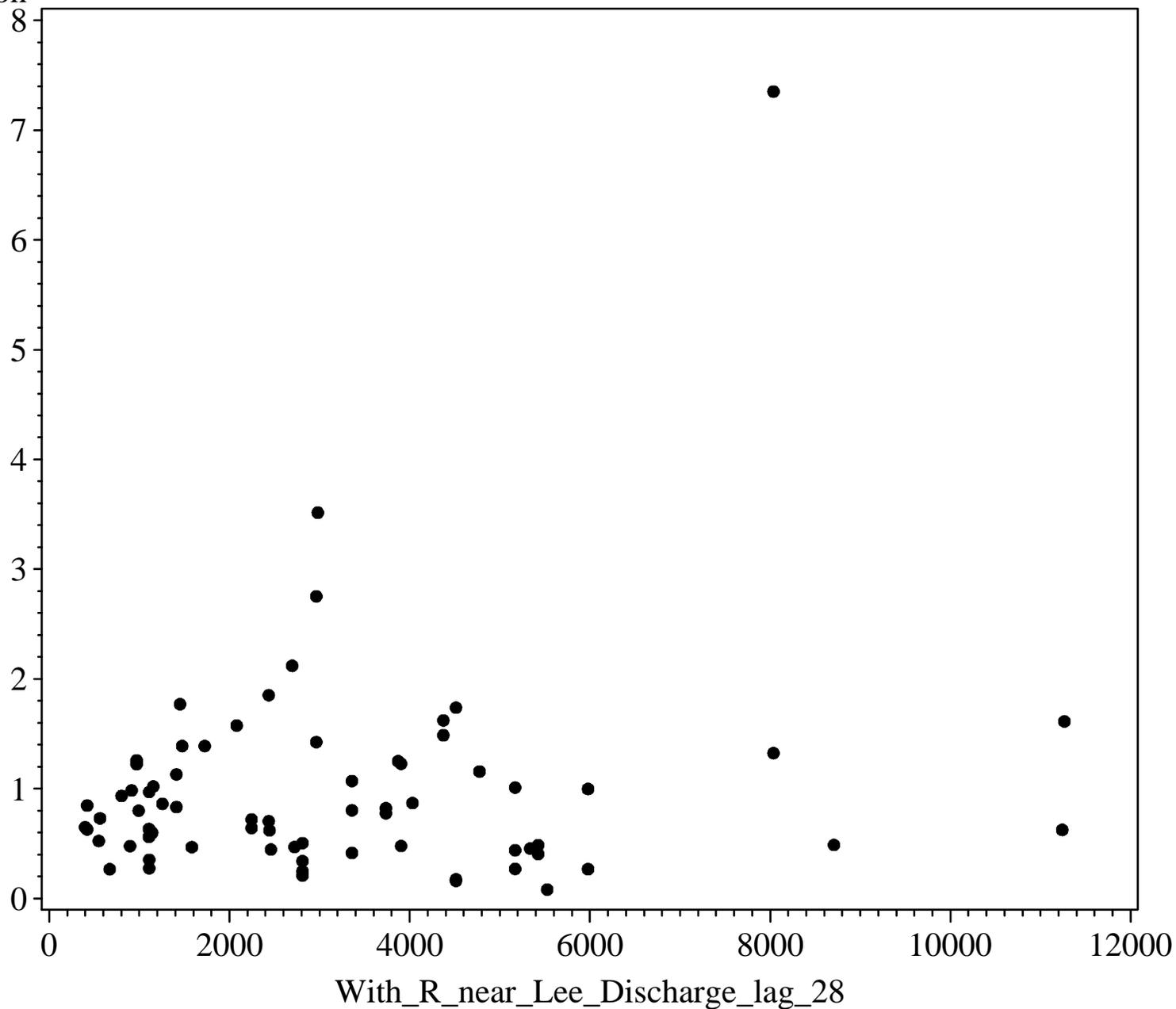
Percent Composition of Taxonomic Families vs. 28 Day Lag Withlacoochee Flow (at Lee)
family=Hydroptilida

Percent Composition



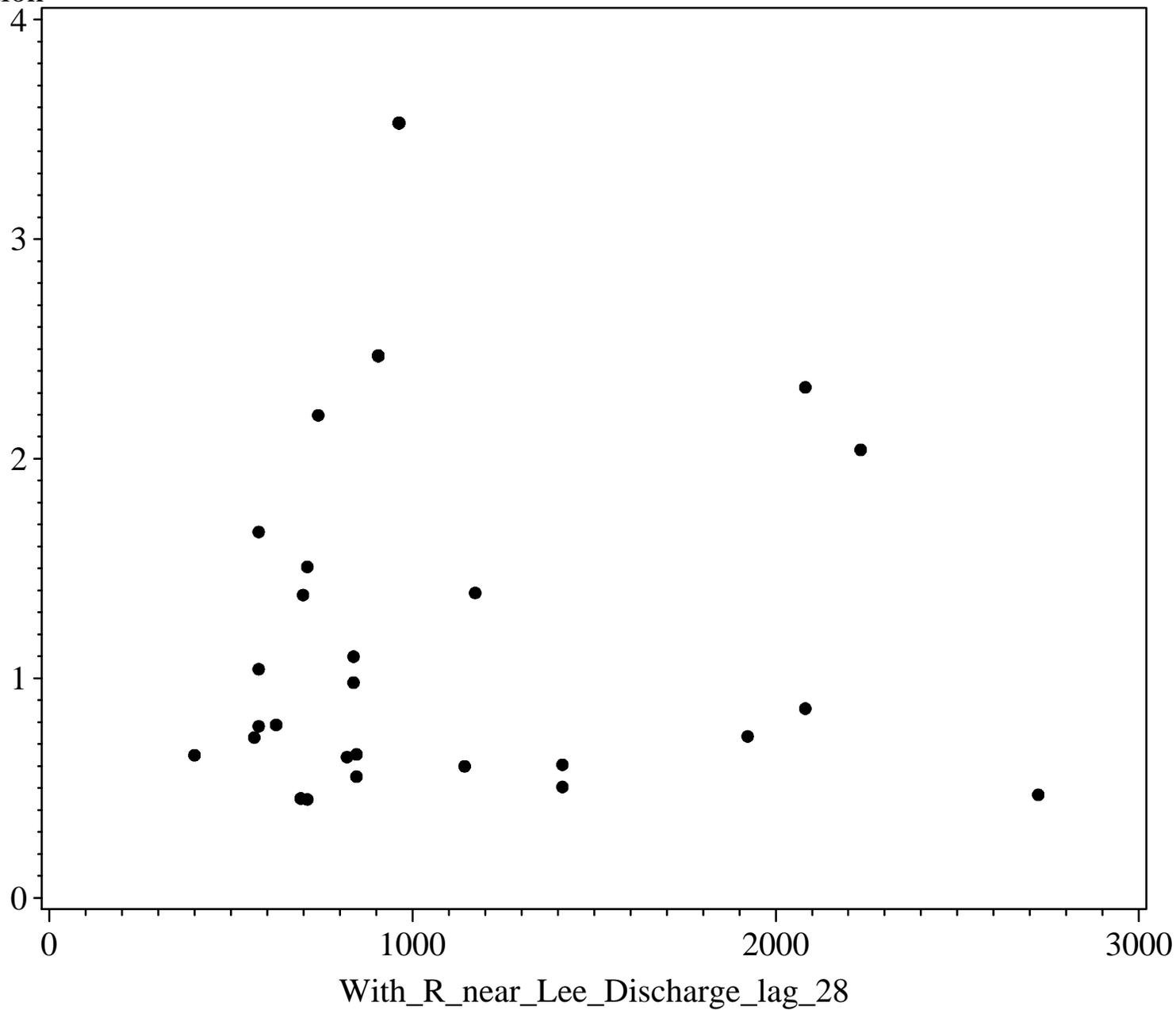
Percent Composition of Taxonomic Families vs. 28 Day Lag Withlacoochee Flow (at Lee)
family=Isonychiidae

Percent Composition



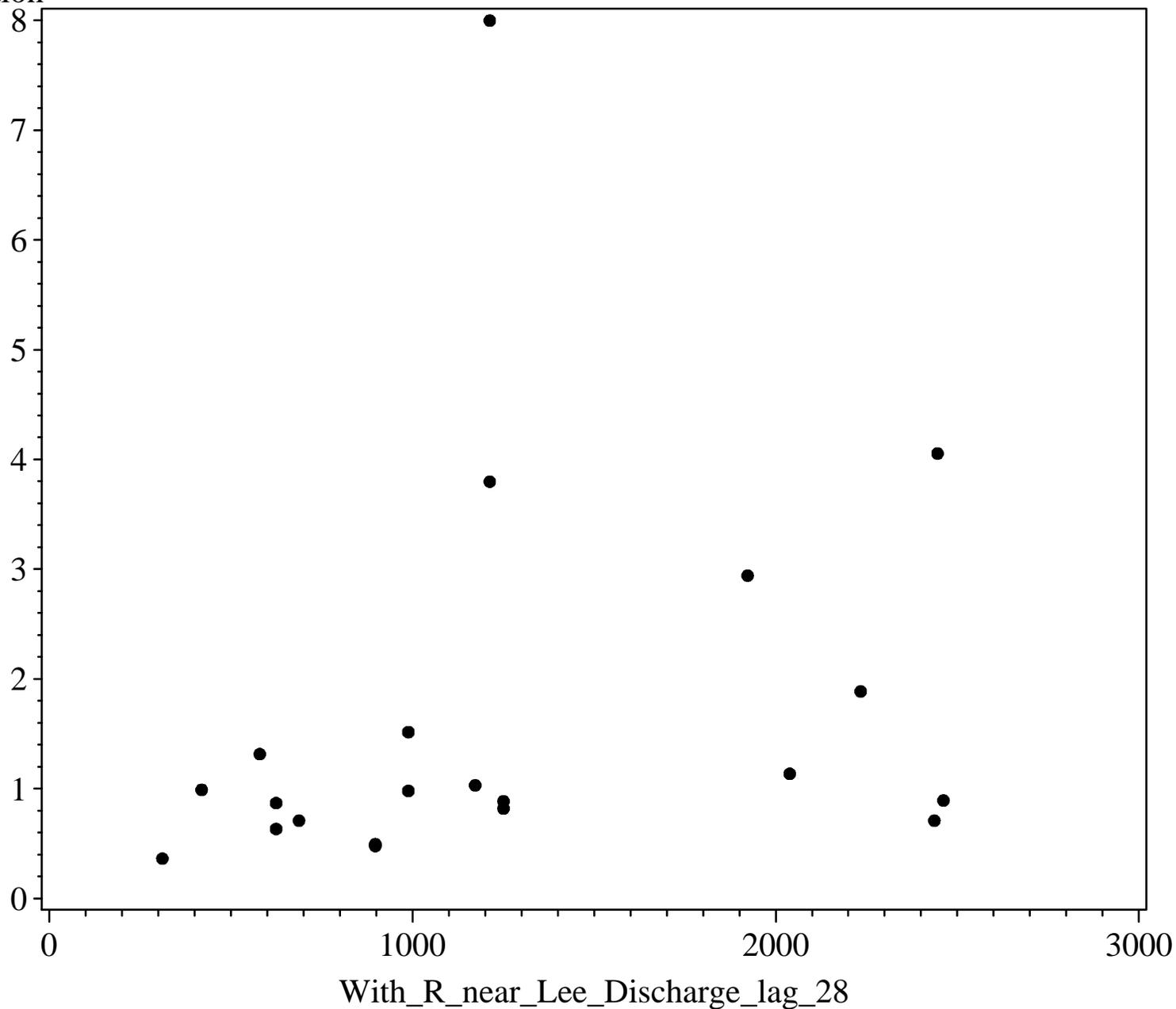
Percent Composition of Taxonomic Families vs. 28 Day Lag Withlacoochee Flow (at Lee)
family=Isotomidae

Percent Composition



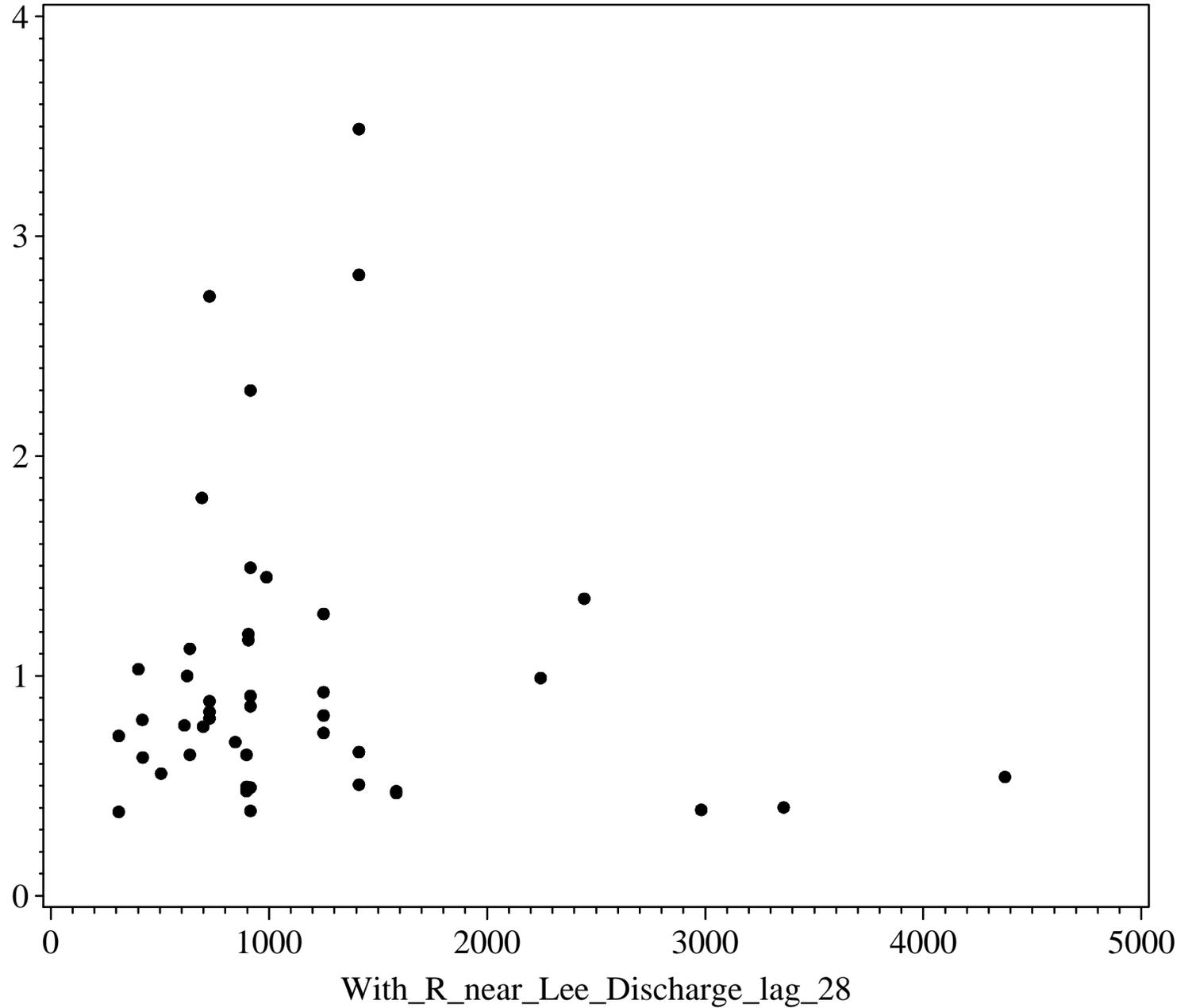
Percent Composition of Taxonomic Families vs. 28 Day Lag Withlacoochee Flow (at Lee)
family=Lebertiidae

Percent Composition



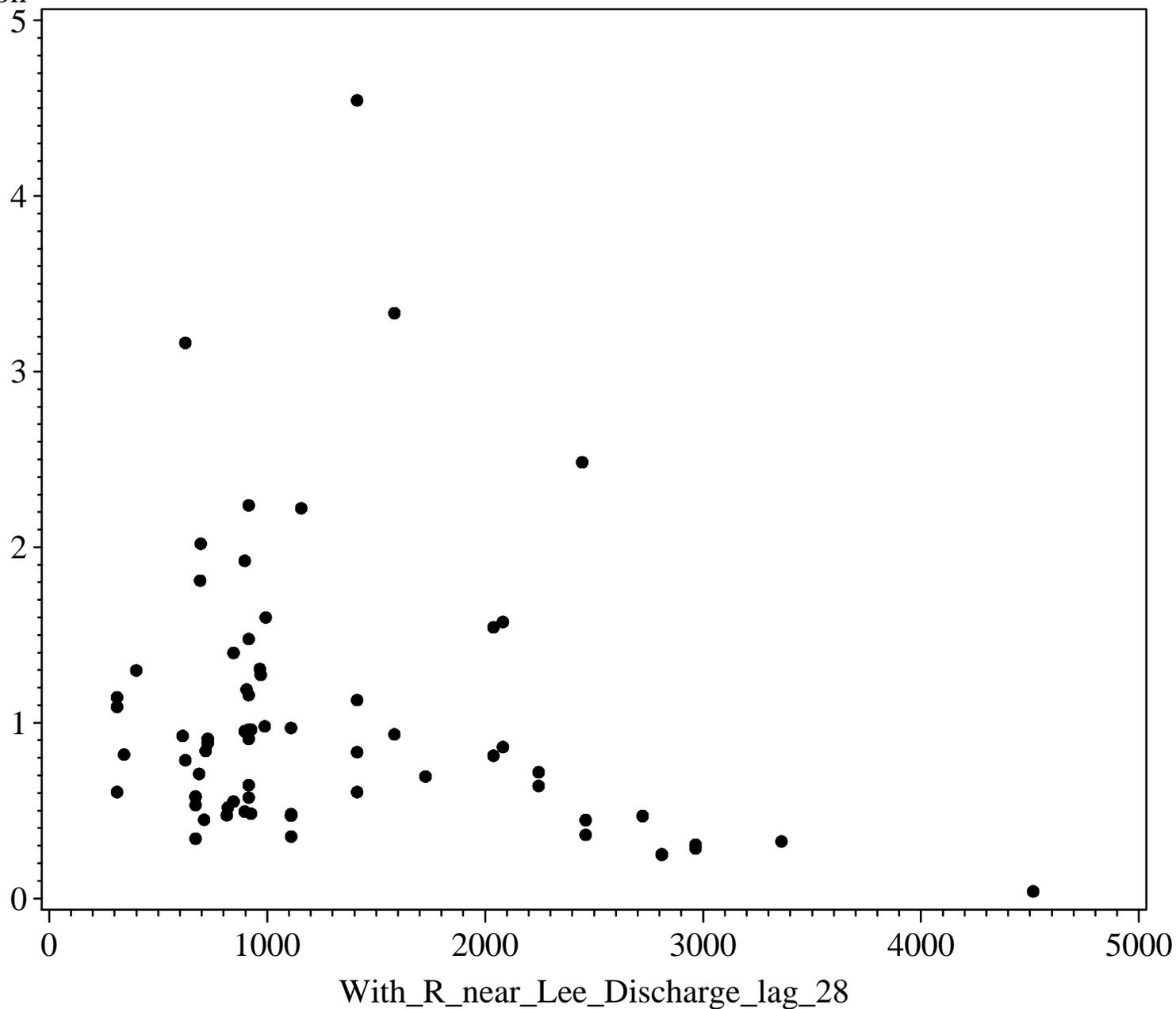
Percent Composition of Taxonomic Families vs. 28 Day Lag Withlacoochee Flow (at Lee)
family=Lectocerinae

Percent Composition



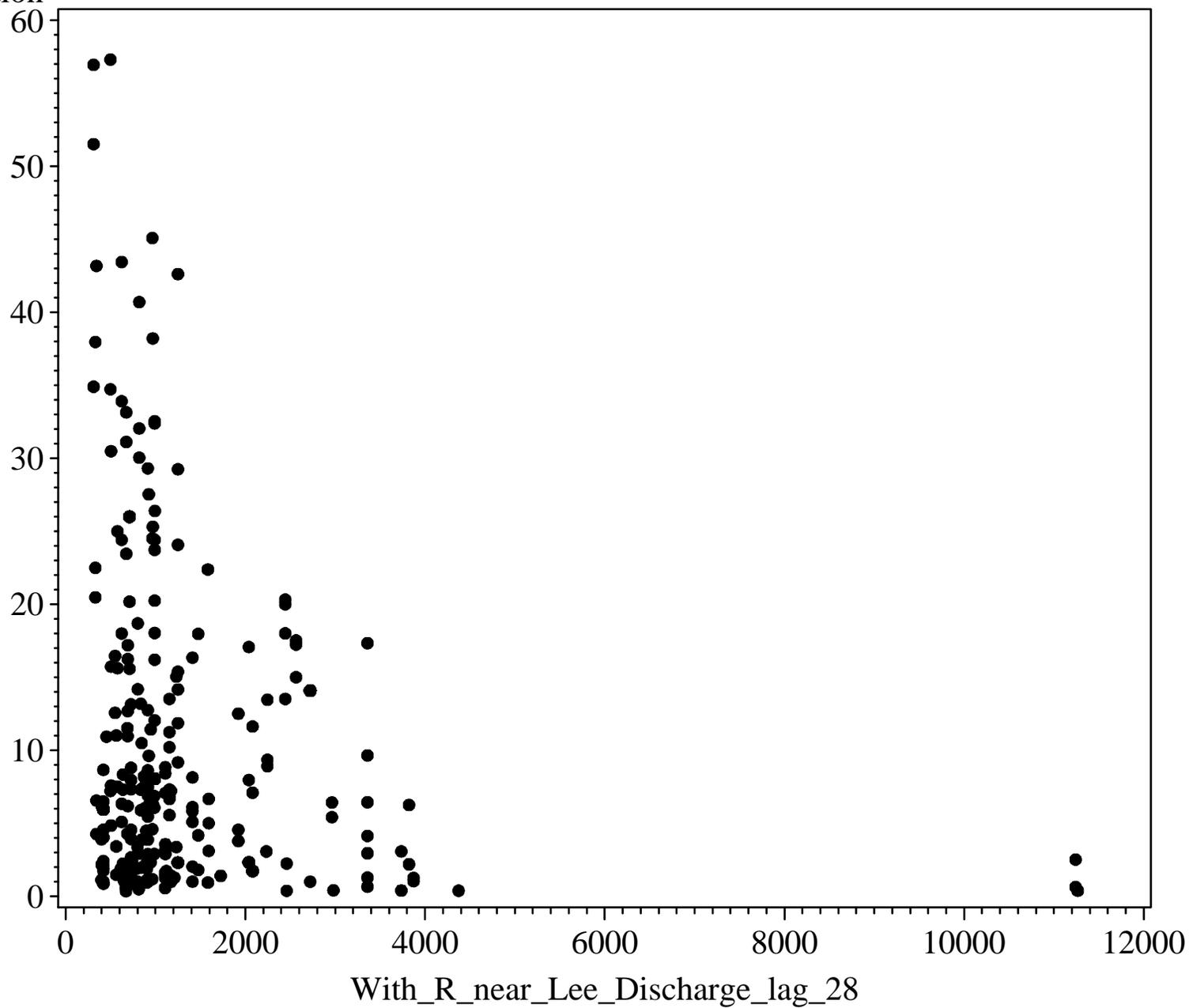
Percent Composition of Taxonomic Families vs. 28 Day Lag Withlacoochee Flow (at Lee)
family=Leptoceridae

Percent Composition



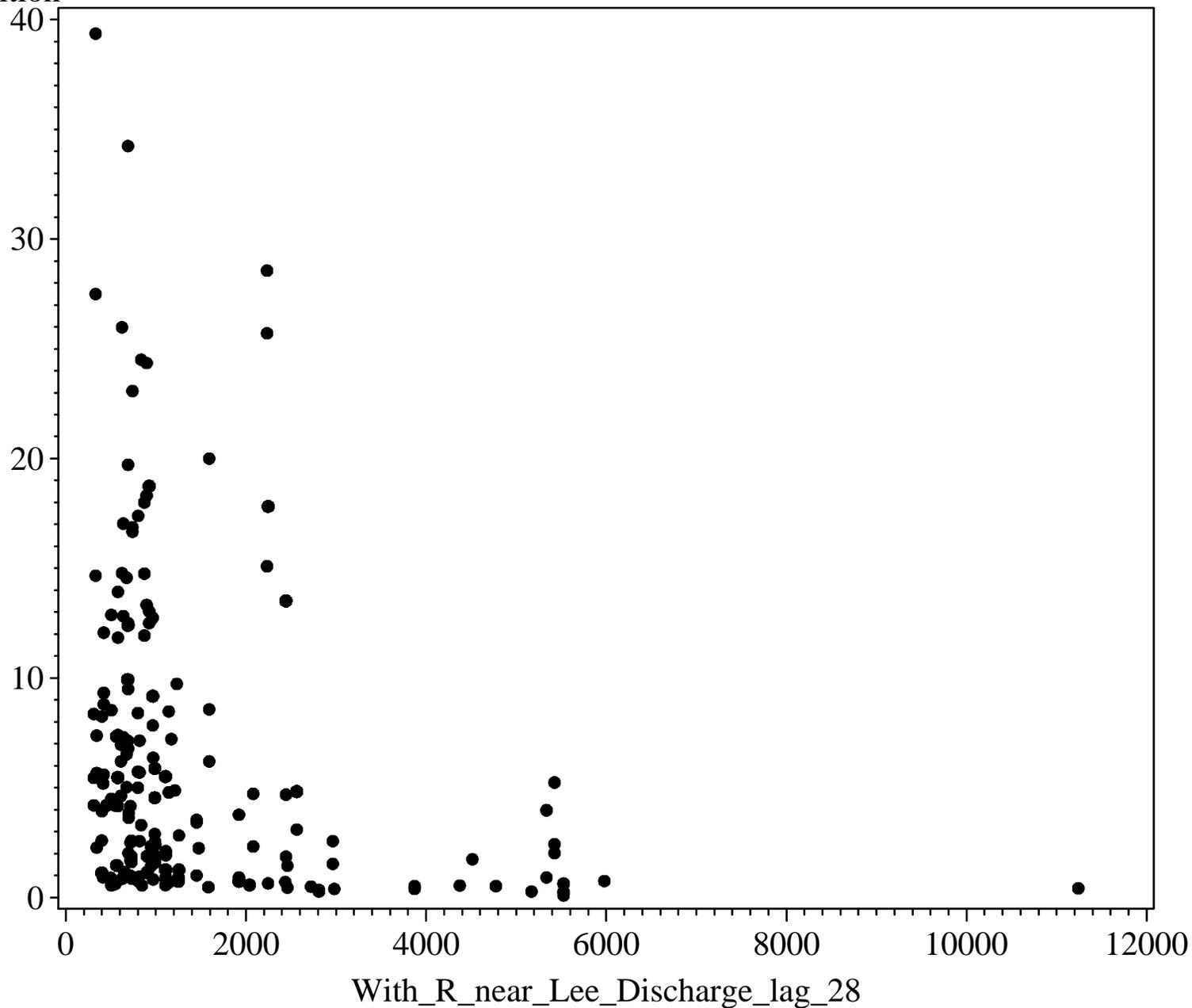
Percent Composition of Taxonomic Families vs. 28 Day Lag Withlacoochee Flow (at Lee)
family=Leptohyphida

Percent Composition



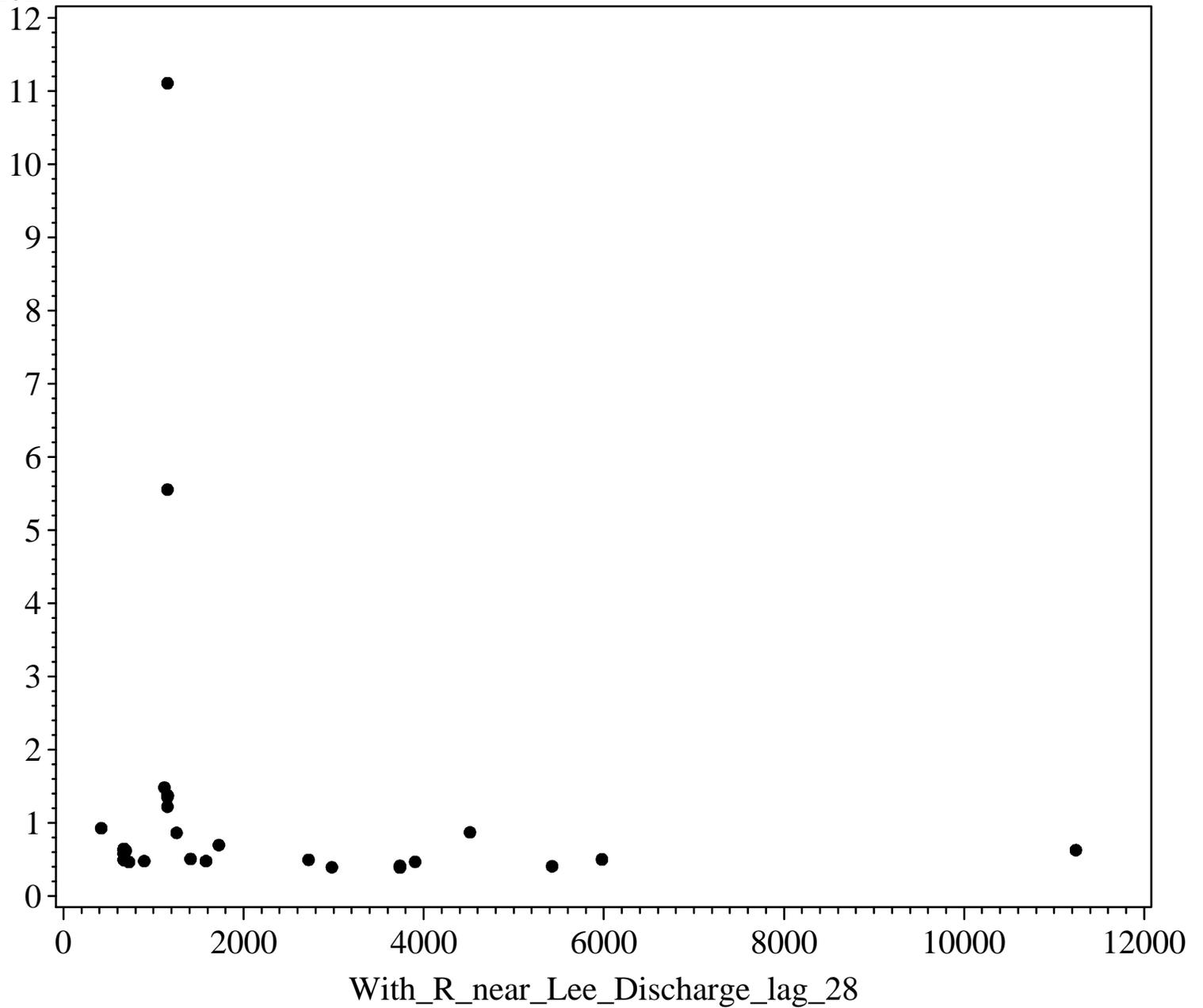
Percent Composition of Taxonomic Families vs. 28 Day Lag Withlacoochee Flow (at Lee)
family=Naididae

Percent Composition



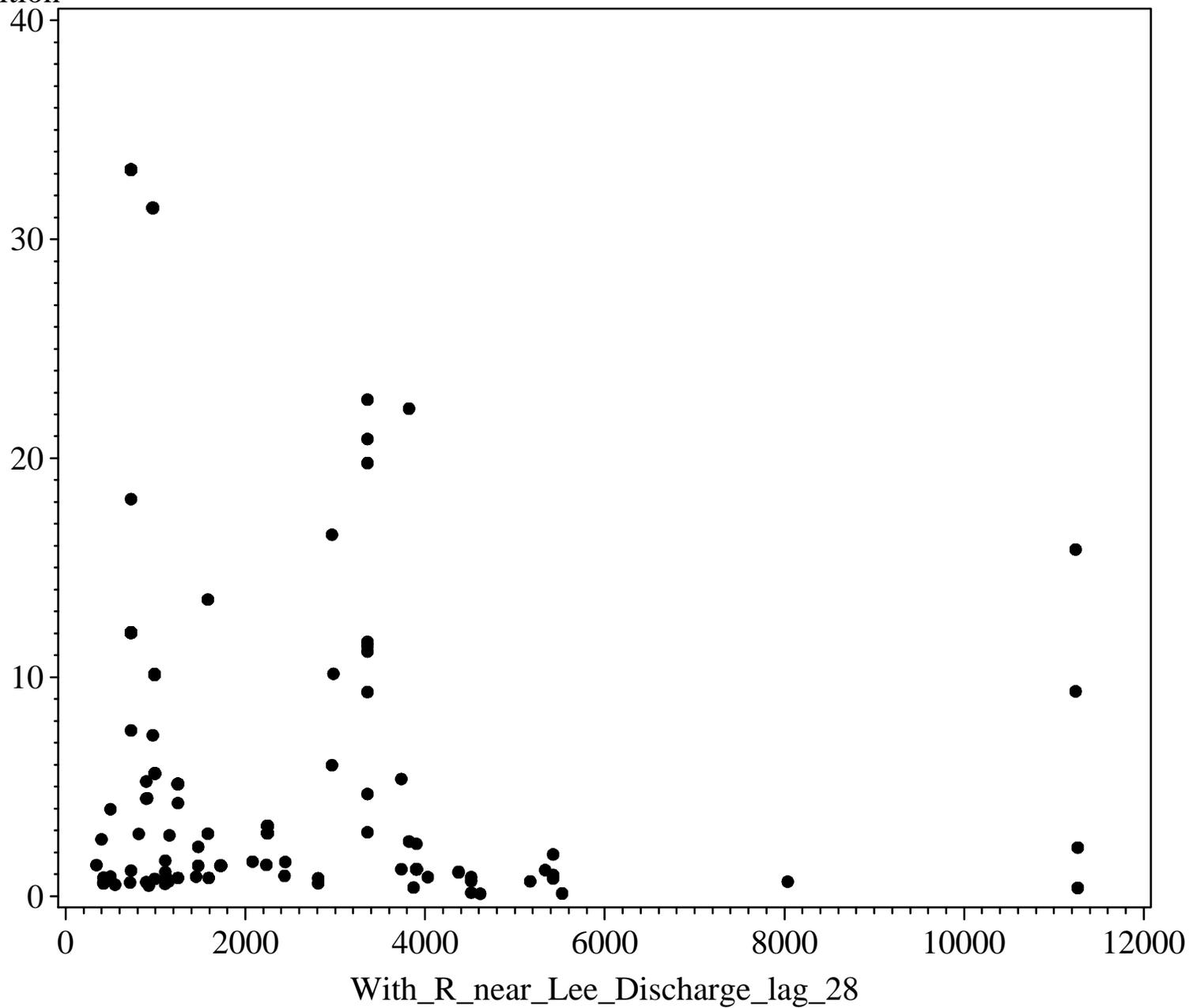
Percent Composition of Taxonomic Families vs. 28 Day Lag Withlacoochee Flow (at Lee)
family=Perlidae

Percent Composition



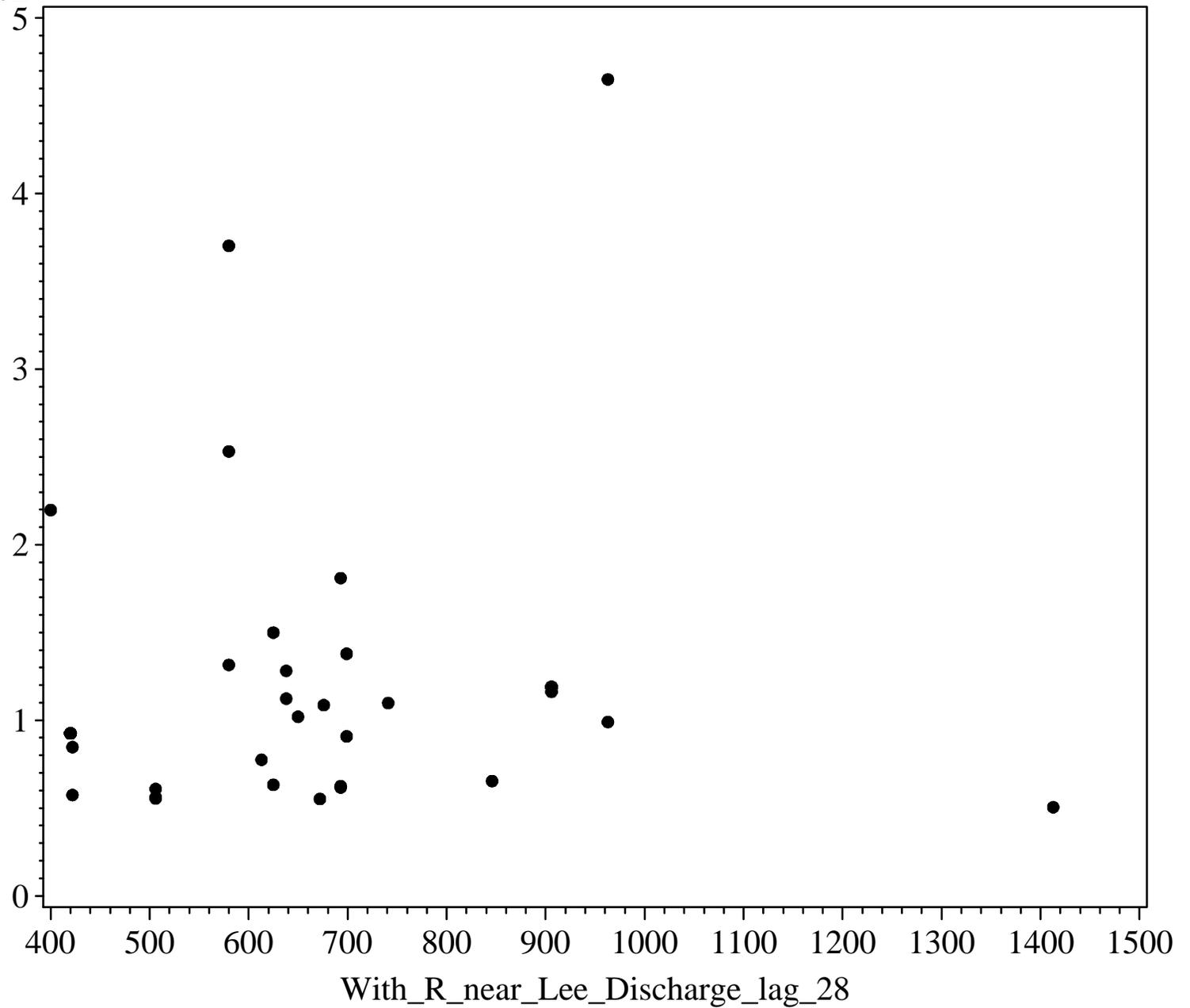
Percent Composition of Taxonomic Families vs. 28 Day Lag Withlacoochee Flow (at Lee)
family=Philopotamid

Percent Composition



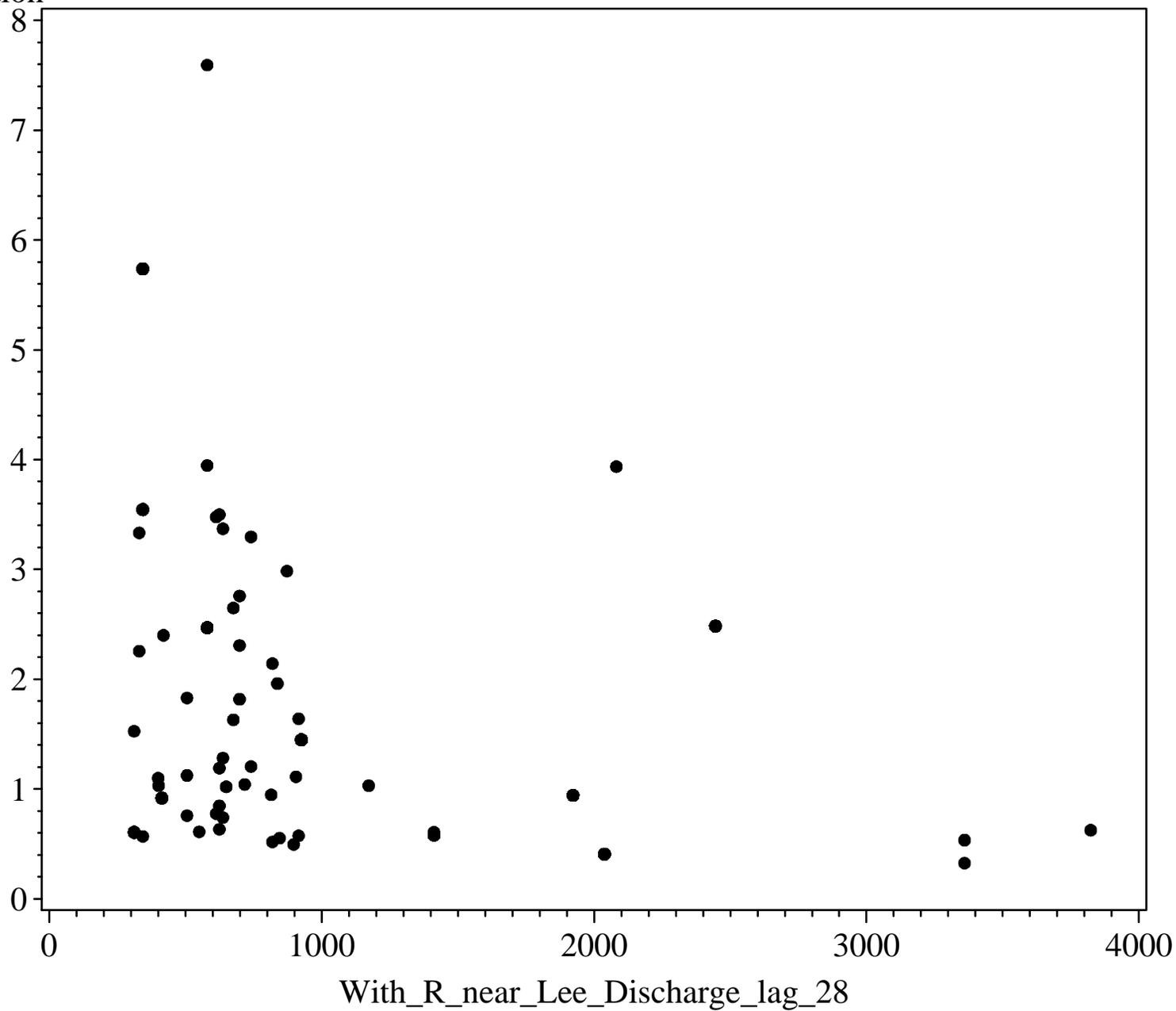
Percent Composition of Taxonomic Families vs. 28 Day Lag Withlacoochee Flow (at Lee)
family=Physidae

Percent Composition



Percent Composition of Taxonomic Families vs. 28 Day Lag Withlacoochee Flow (at Lee)
family=Planariidae

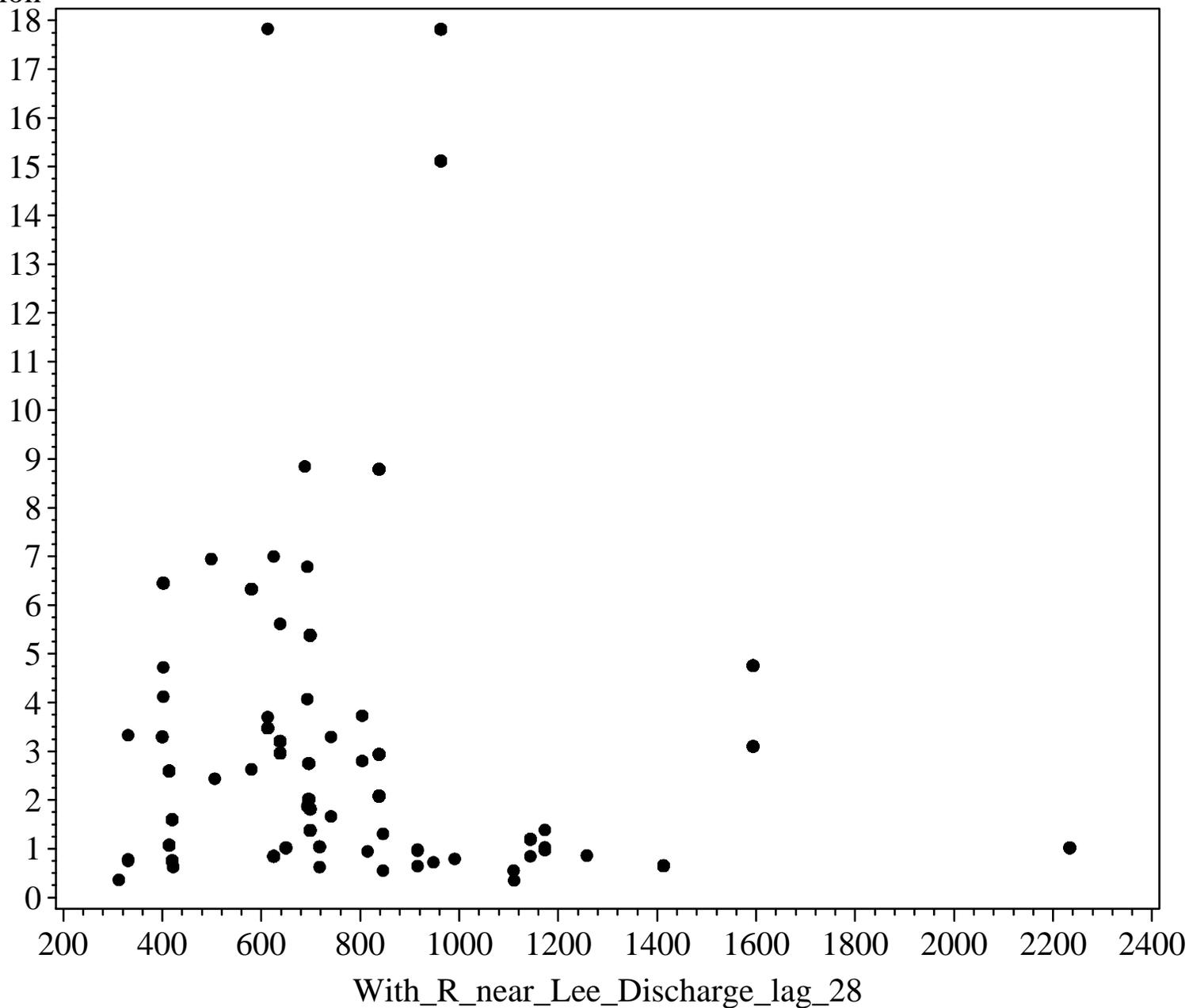
Percent Composition



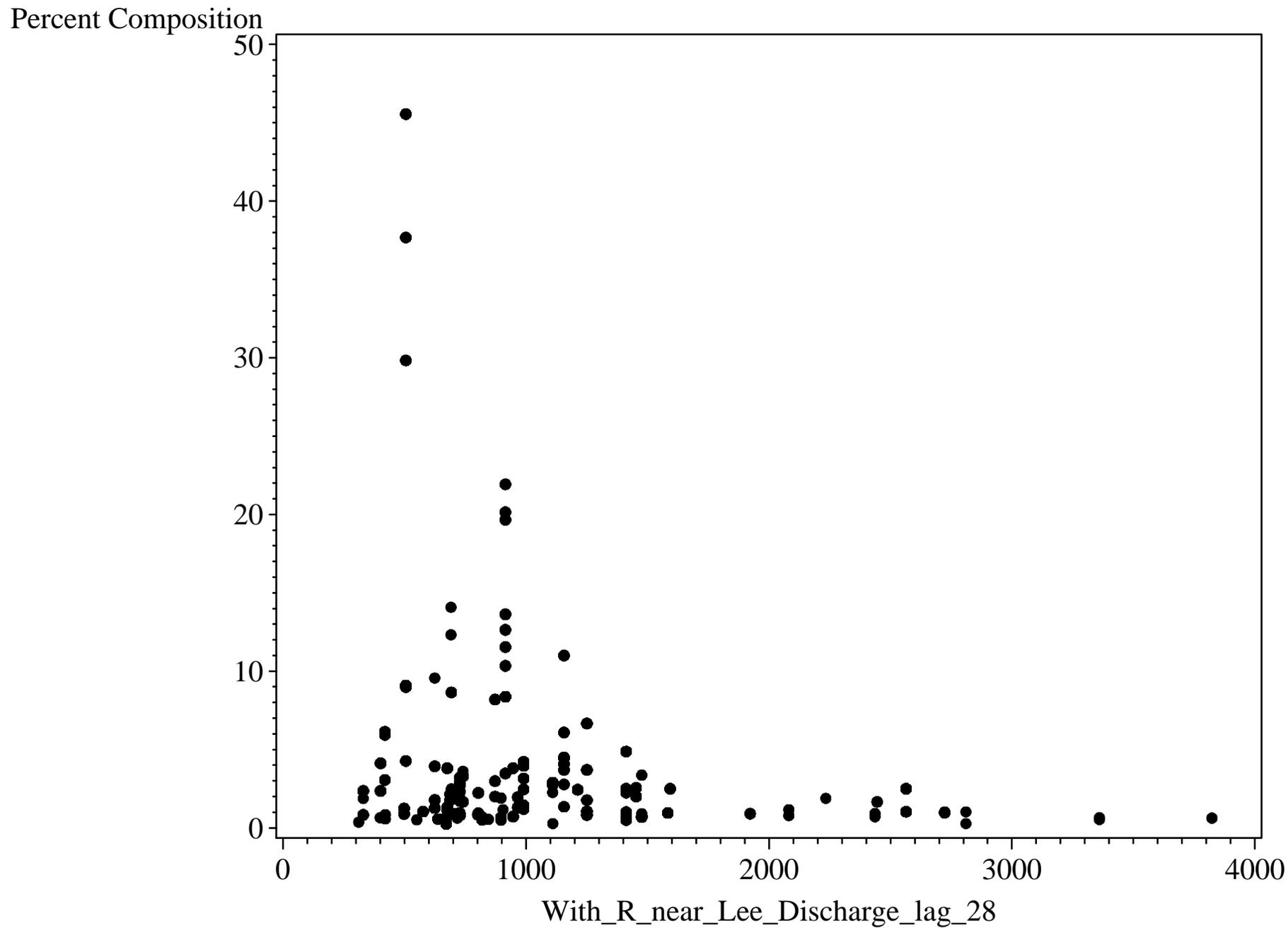
Percent Composition of Taxonomic Families vs. 28 Day Lag Withlacoochee Flow (at Lee)

family=Planorbidae

Percent Composition



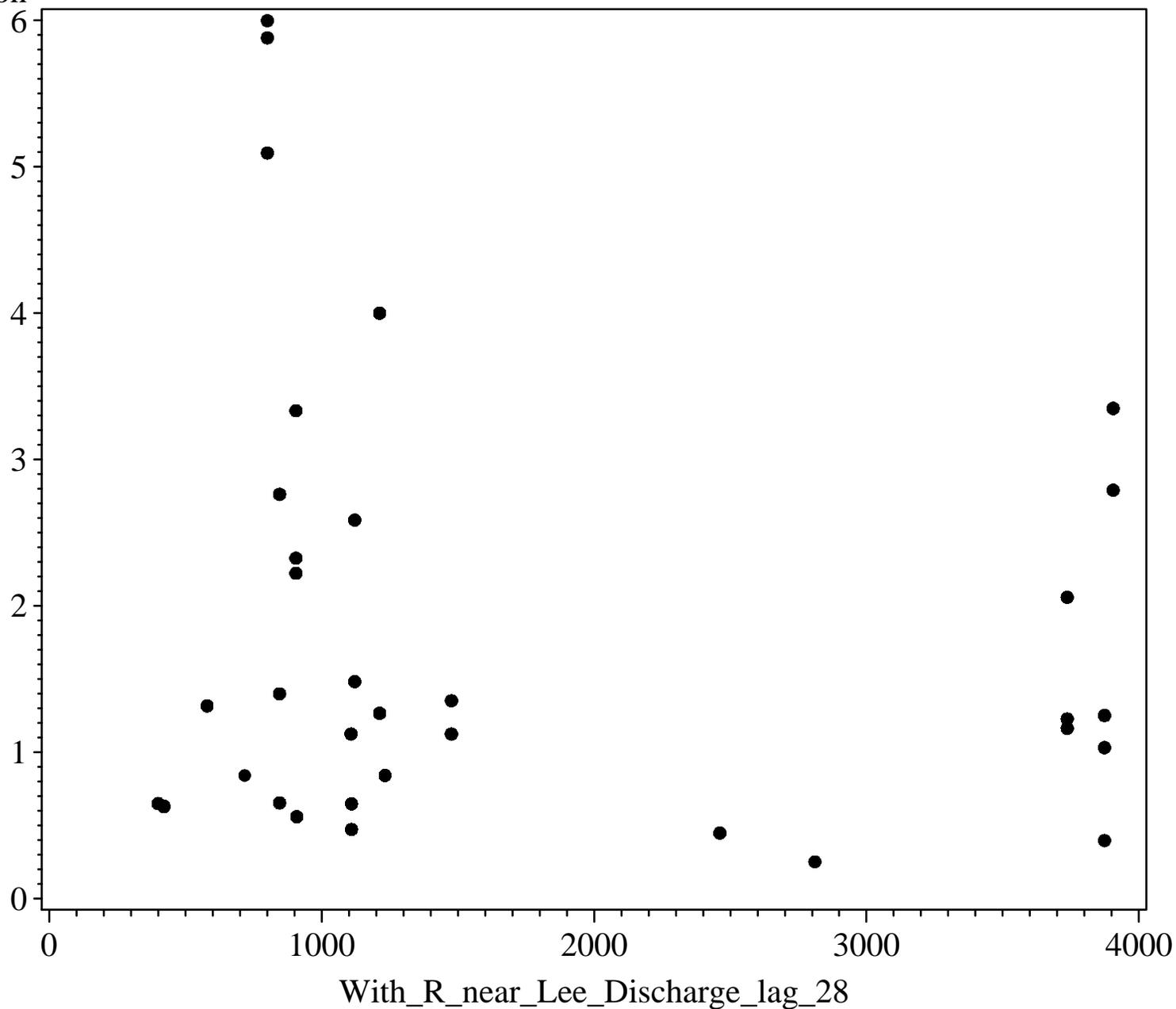
Percent Composition of Taxonomic Families vs. 28 Day Lag Withlacoochee Flow (at Lee)
family=Polycentropo



Percent Composition of Taxonomic Families vs. 28 Day Lag Withlacoochee Flow (at Lee)

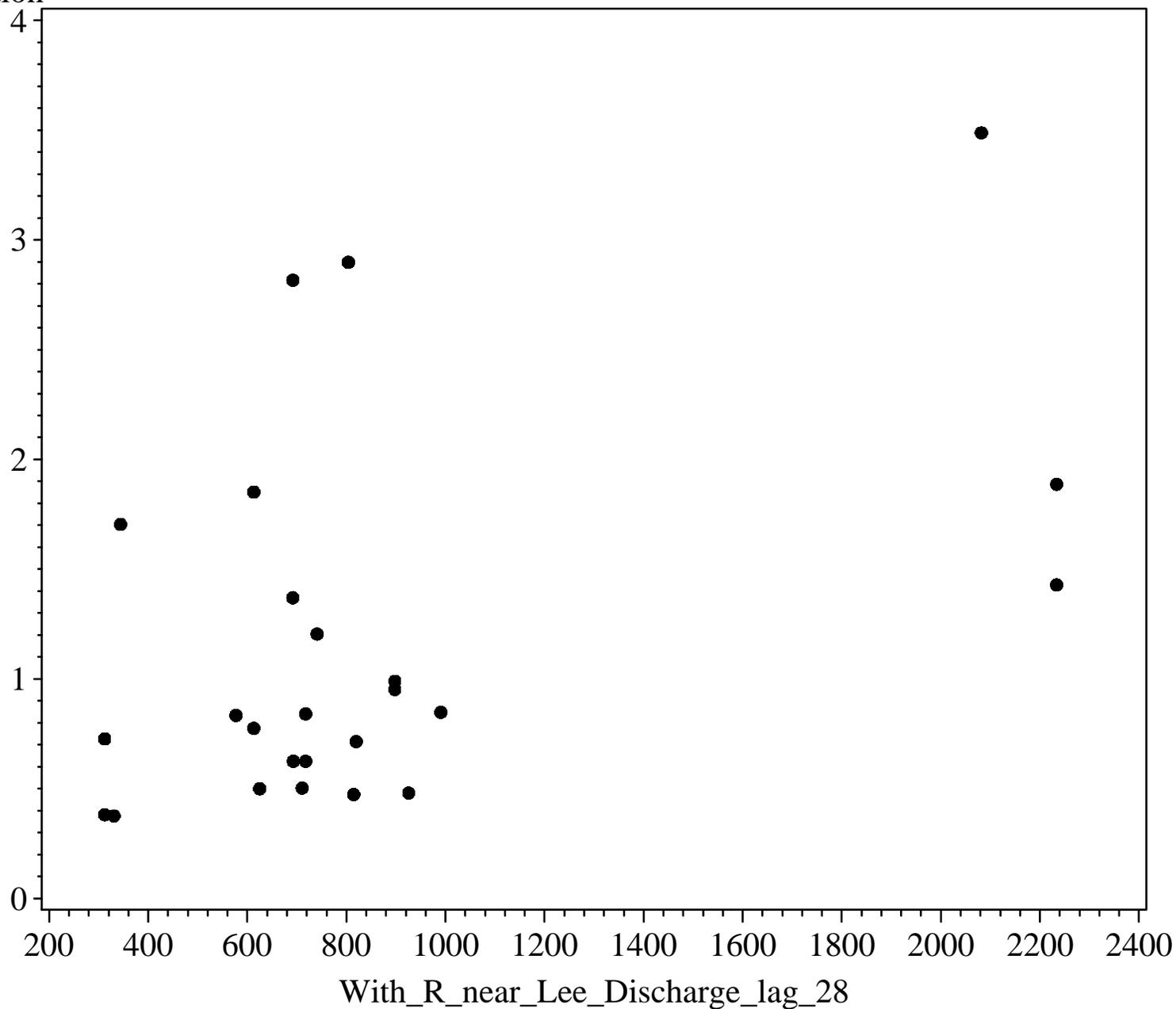
family=Taeniopteryg

Percent Composition



Percent Composition of Taxonomic Families vs. 28 Day Lag Withlacoochee Flow (at Lee)
family=Tetrastemmat

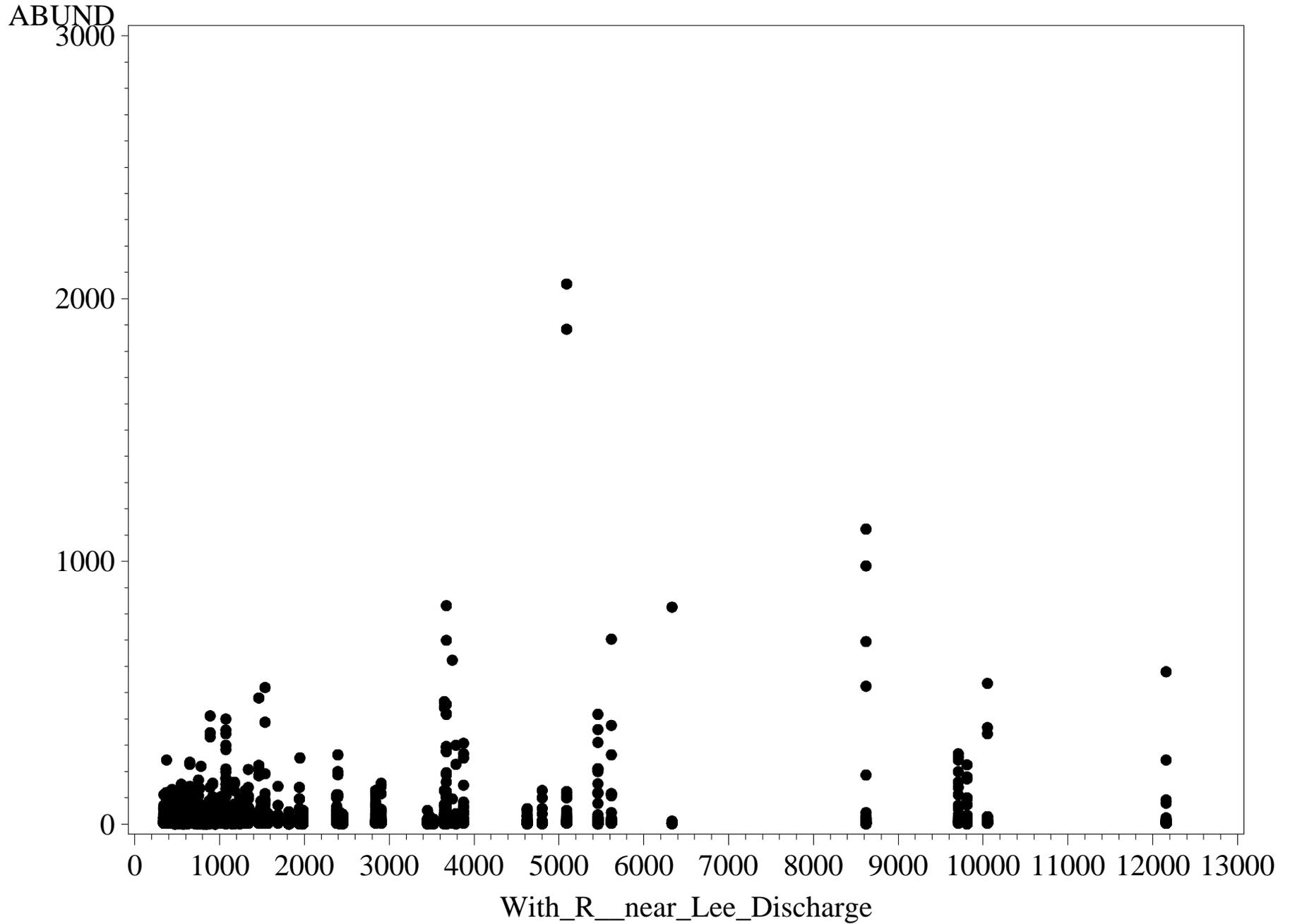
Percent Composition



APPENDIX C4

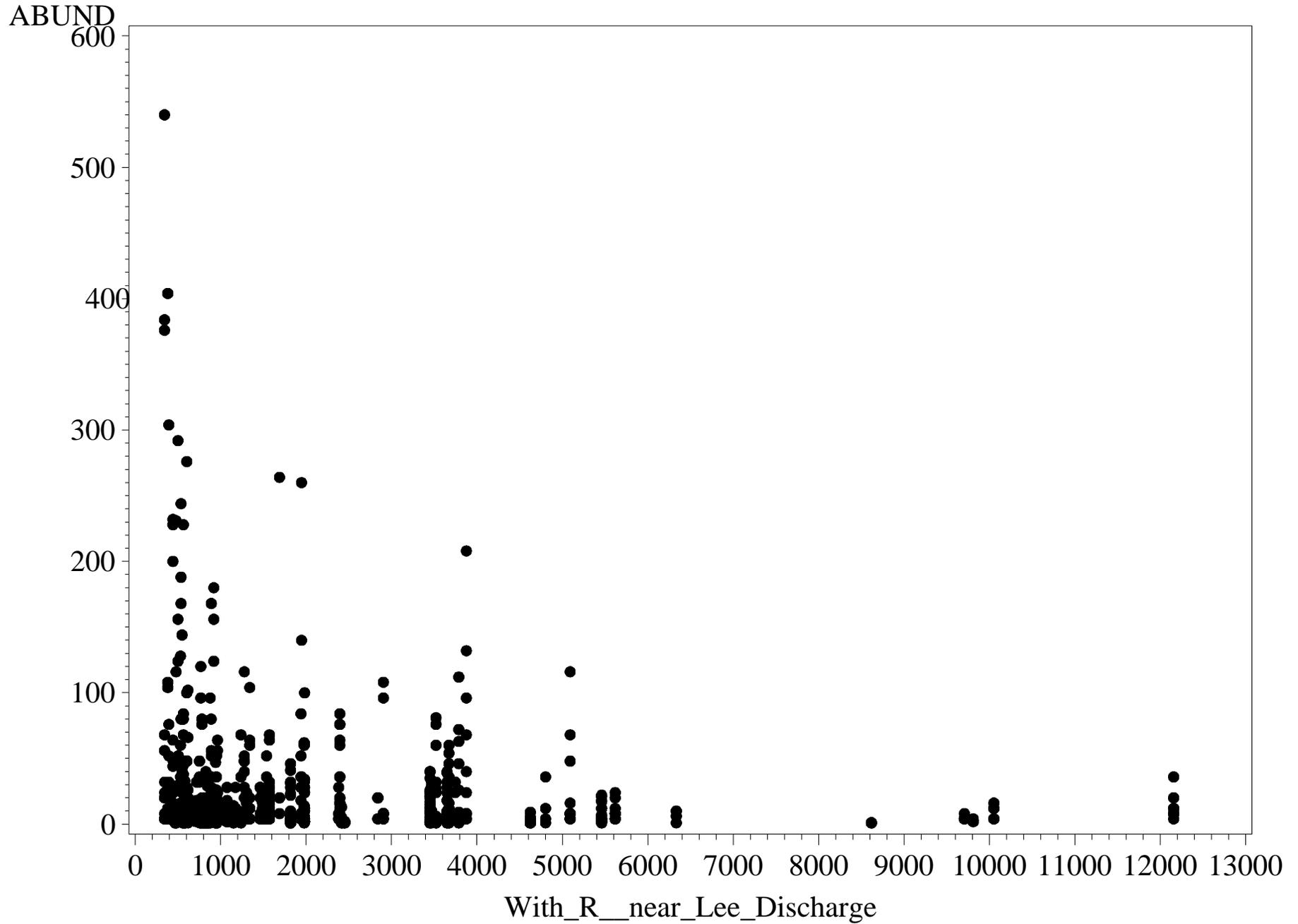
Taxonomic Order vs. Estimated Withlacoochee Flow (at Lee)

order=Diptera



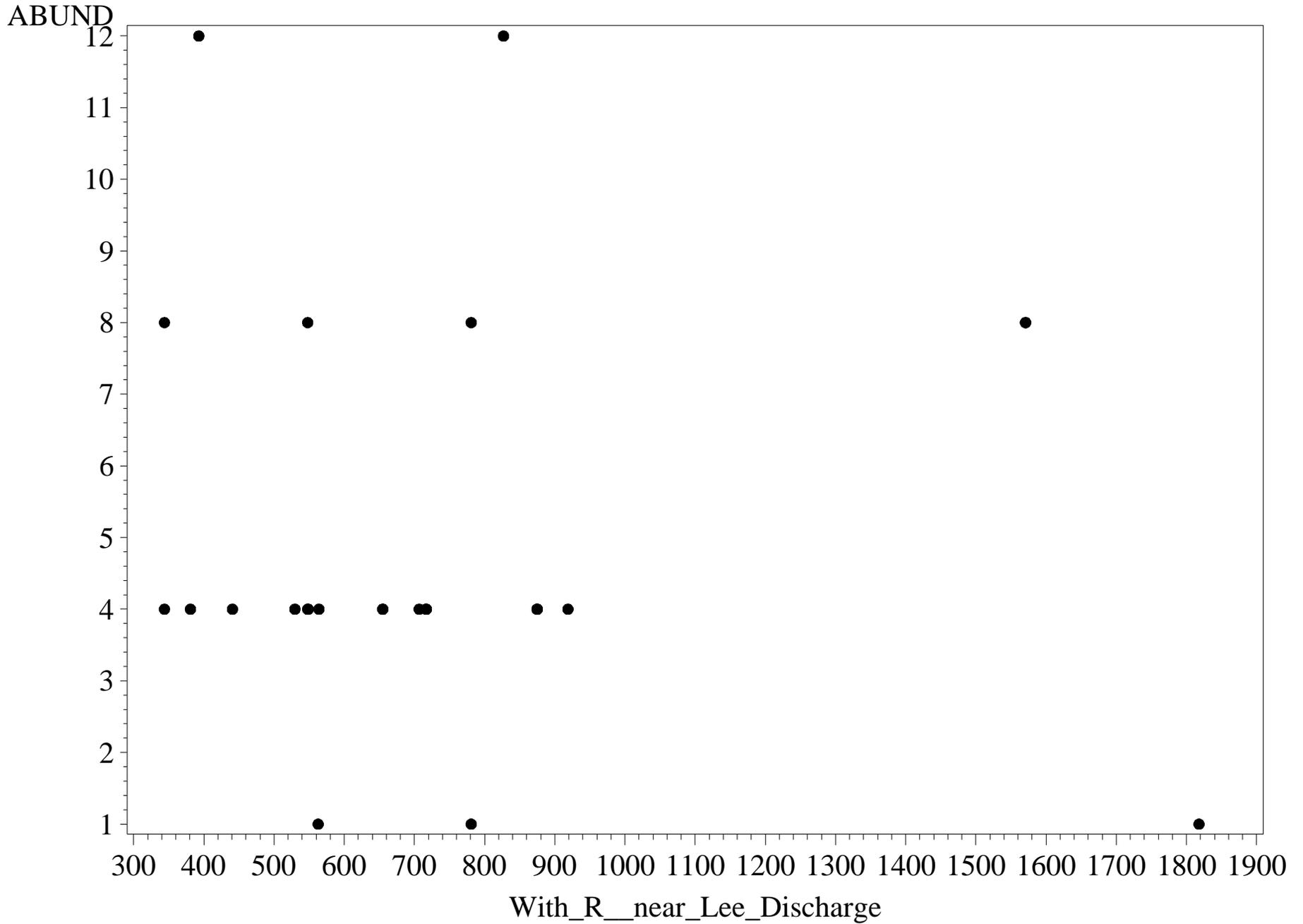
Taxonomic Order vs. Estimated Withlacoochee Flow (at Lee)

order=Ephemer



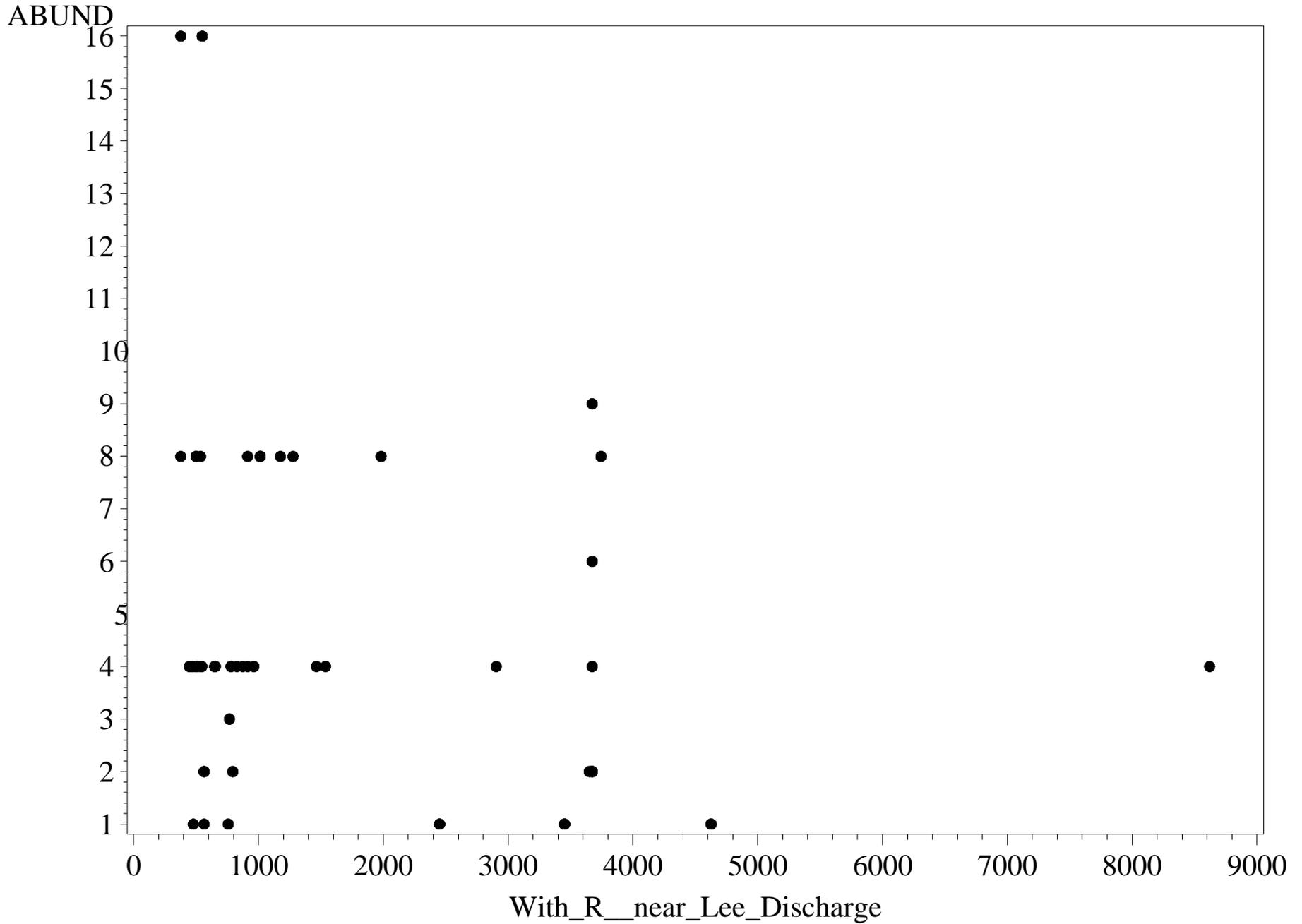
Taxonomic Order vs. Estimated Withlacoochee Flow (at Lee)

order=Hoplone



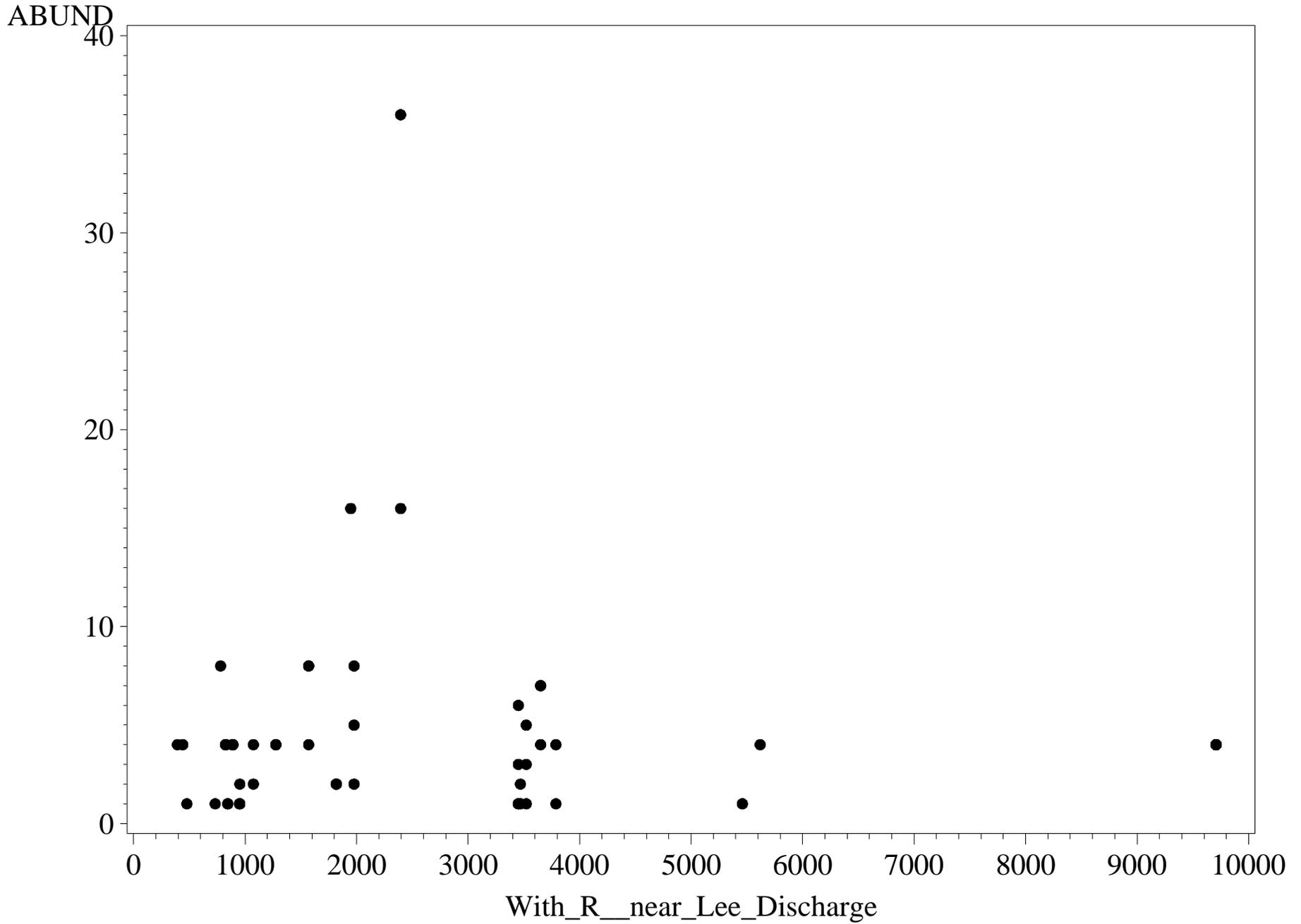
Taxonomic Order vs. Estimated Withlacoochee Flow (at Lee)

order=Hydroid



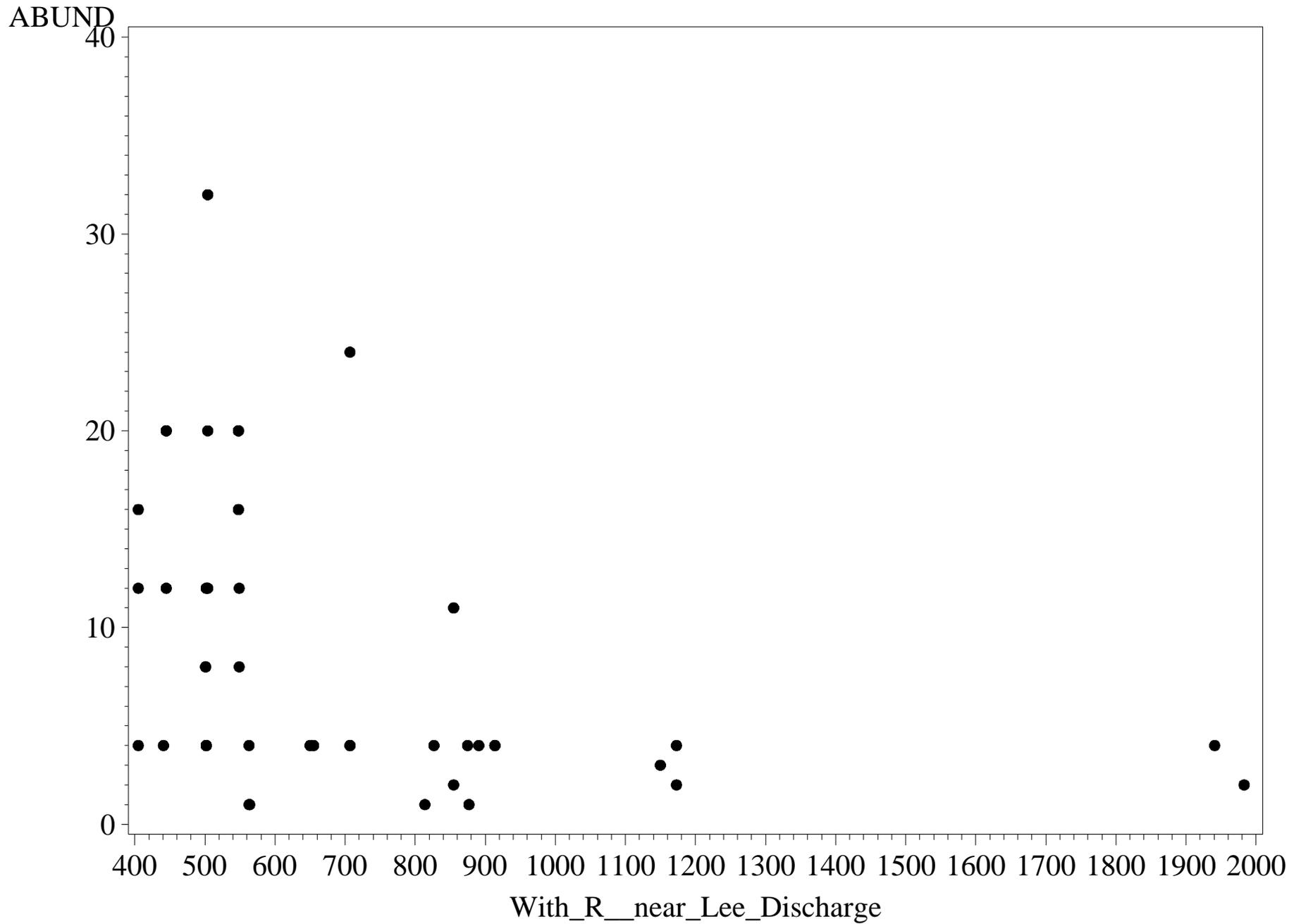
Taxonomic Order vs. Estimated Withlacoochee Flow (at Lee)

order=Megalop



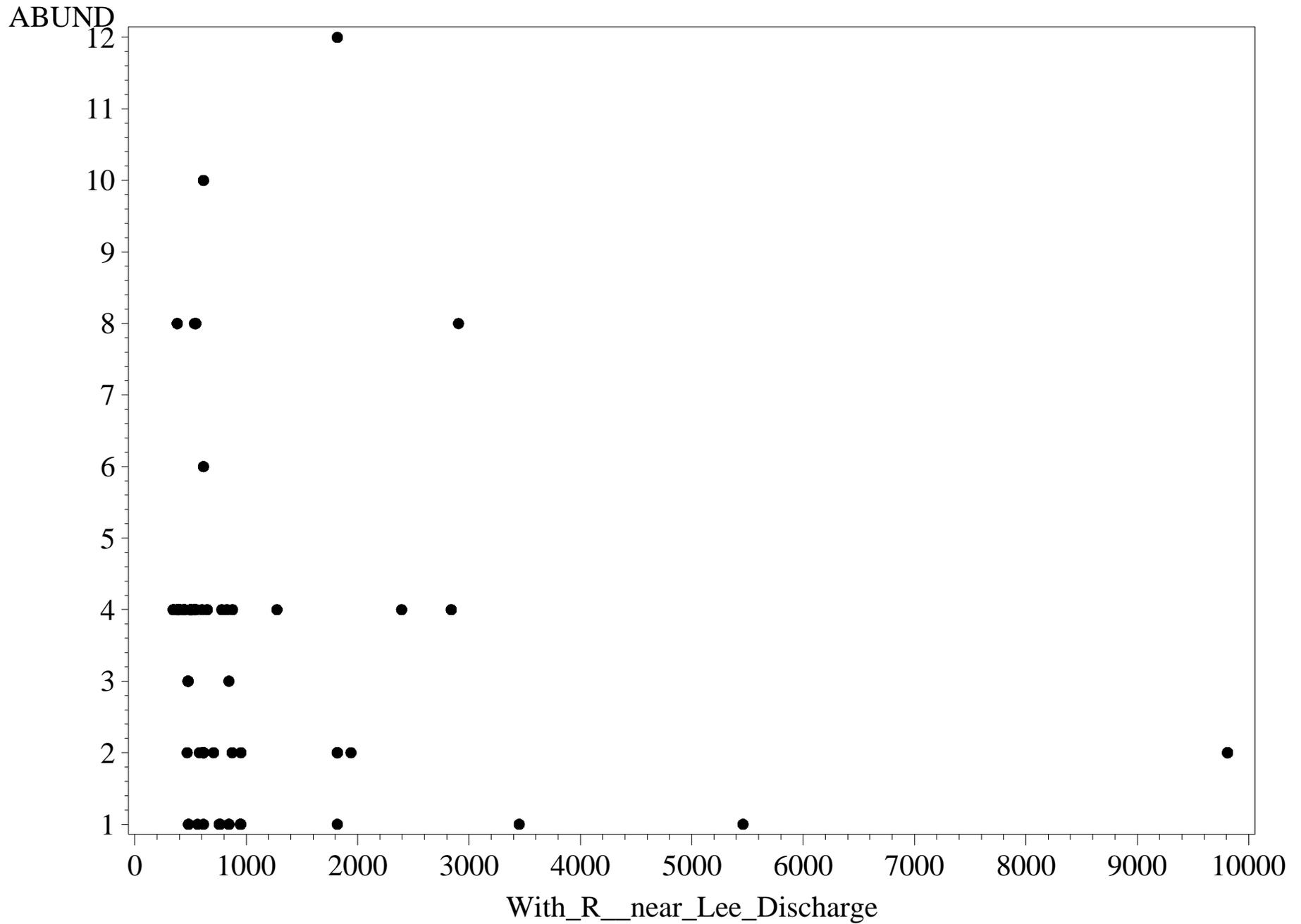
Taxonomic Order vs. Estimated Withlacoochee Flow (at Lee)

order=Neotaen

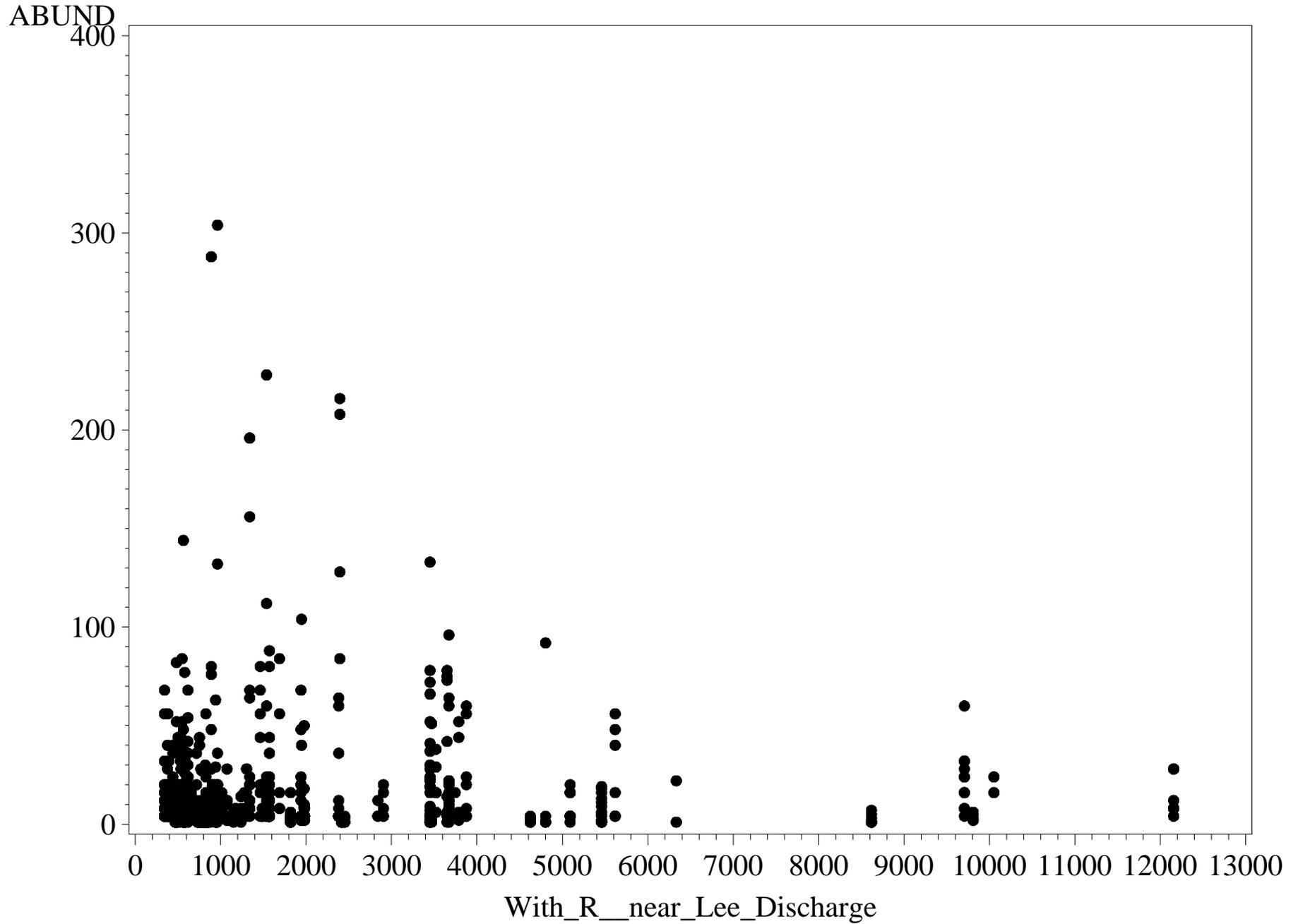


Taxonomic Order vs. Estimated Withlacoochee Flow (at Lee)

order=Odonata

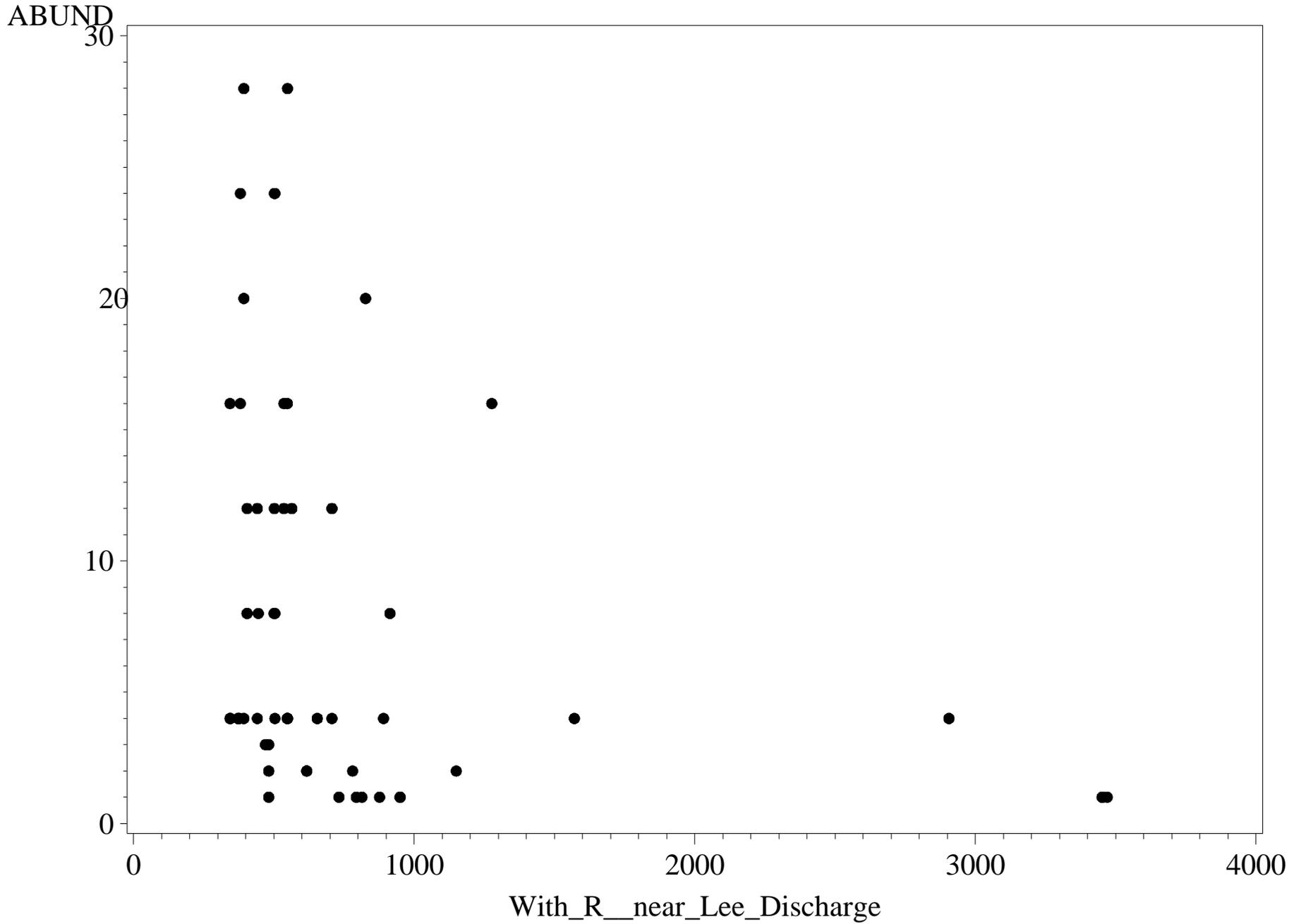


Taxonomic Order vs. Estimated Withlacoochee Flow (at Lee)
order=Trichop



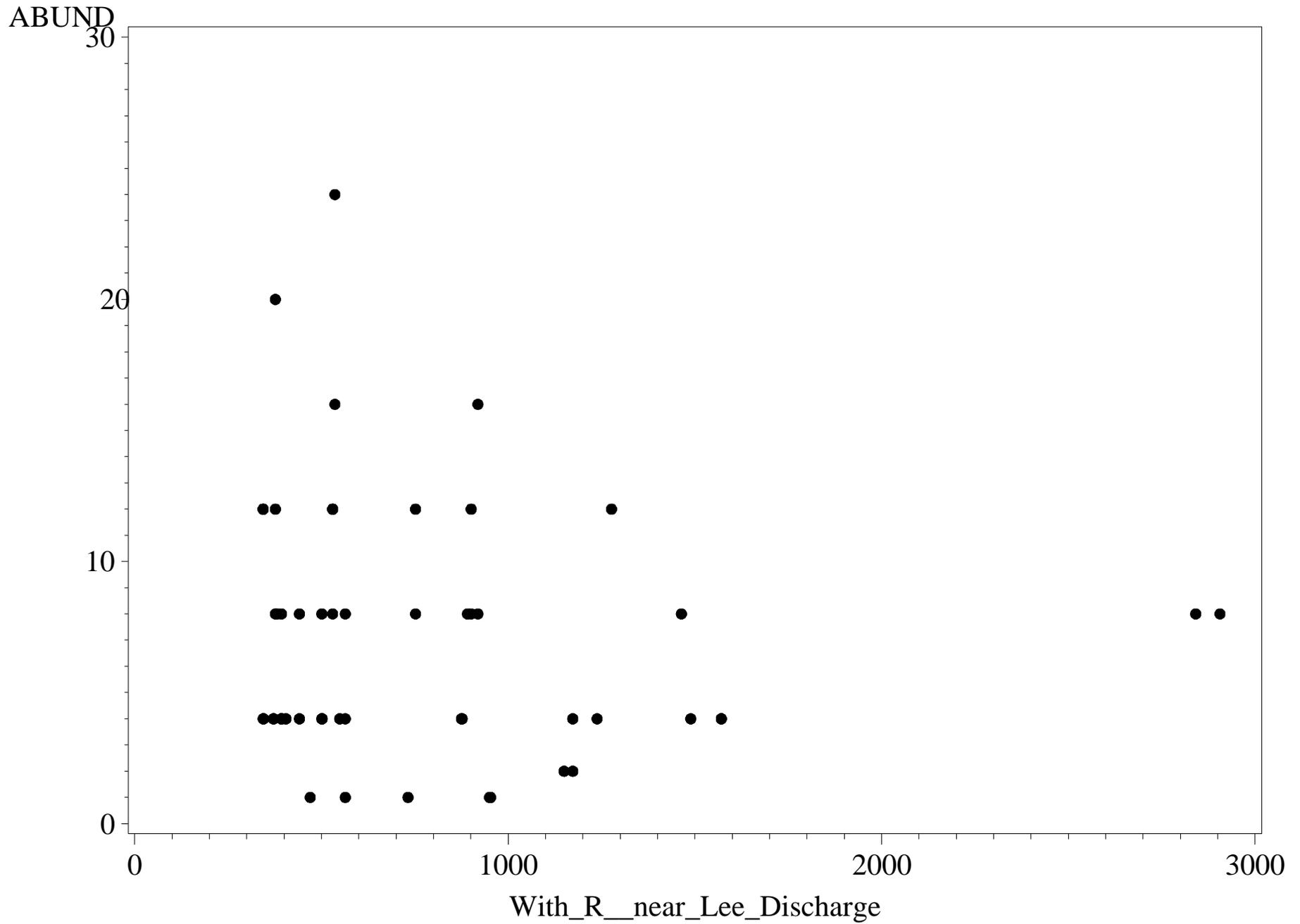
Taxonomic Order vs. Estimated Withlacoochee Flow (at Lee)

order=Triclad

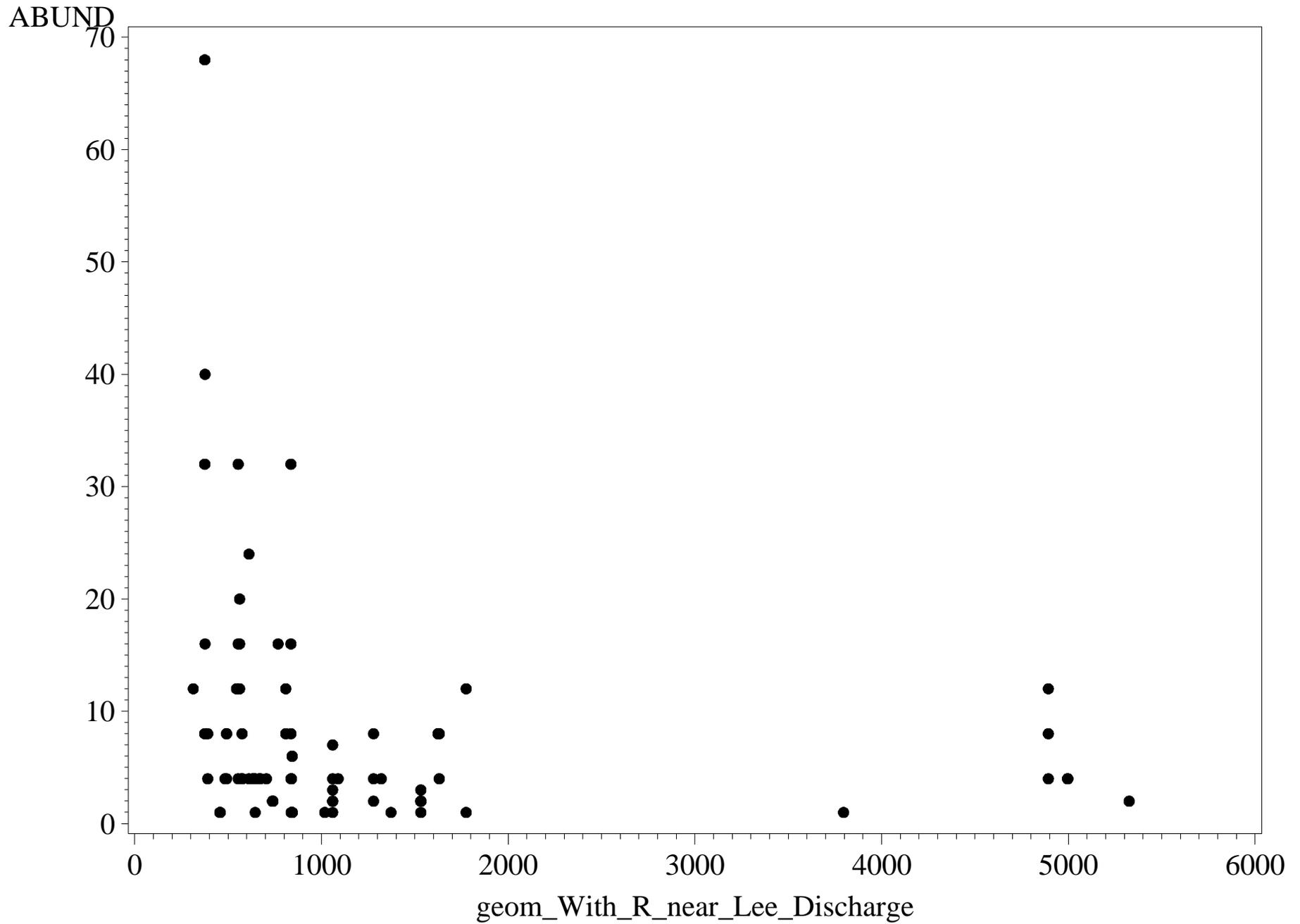


Taxonomic Order vs. Estimated Withlacoochee Flow (at Lee)

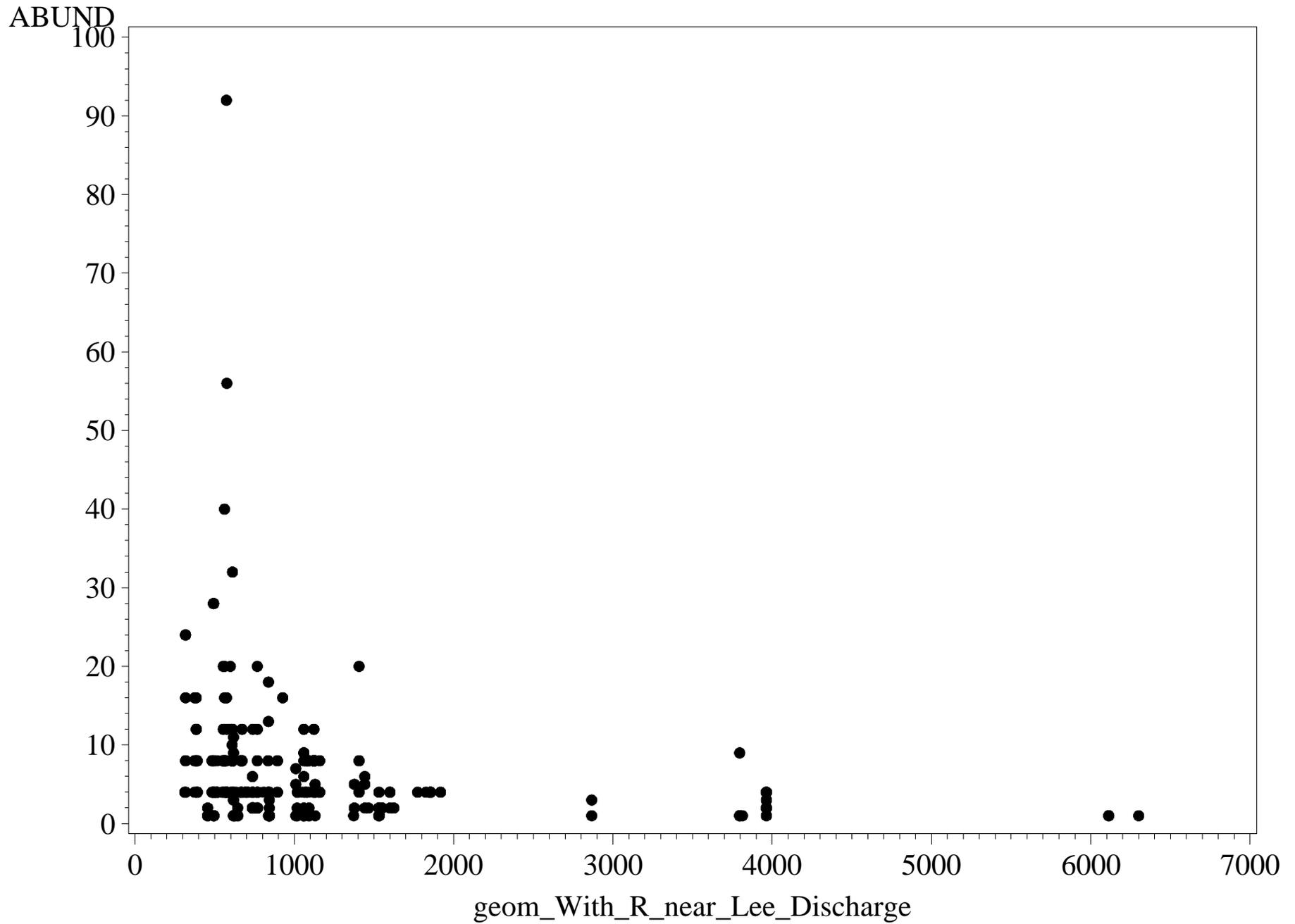
order=Trombid



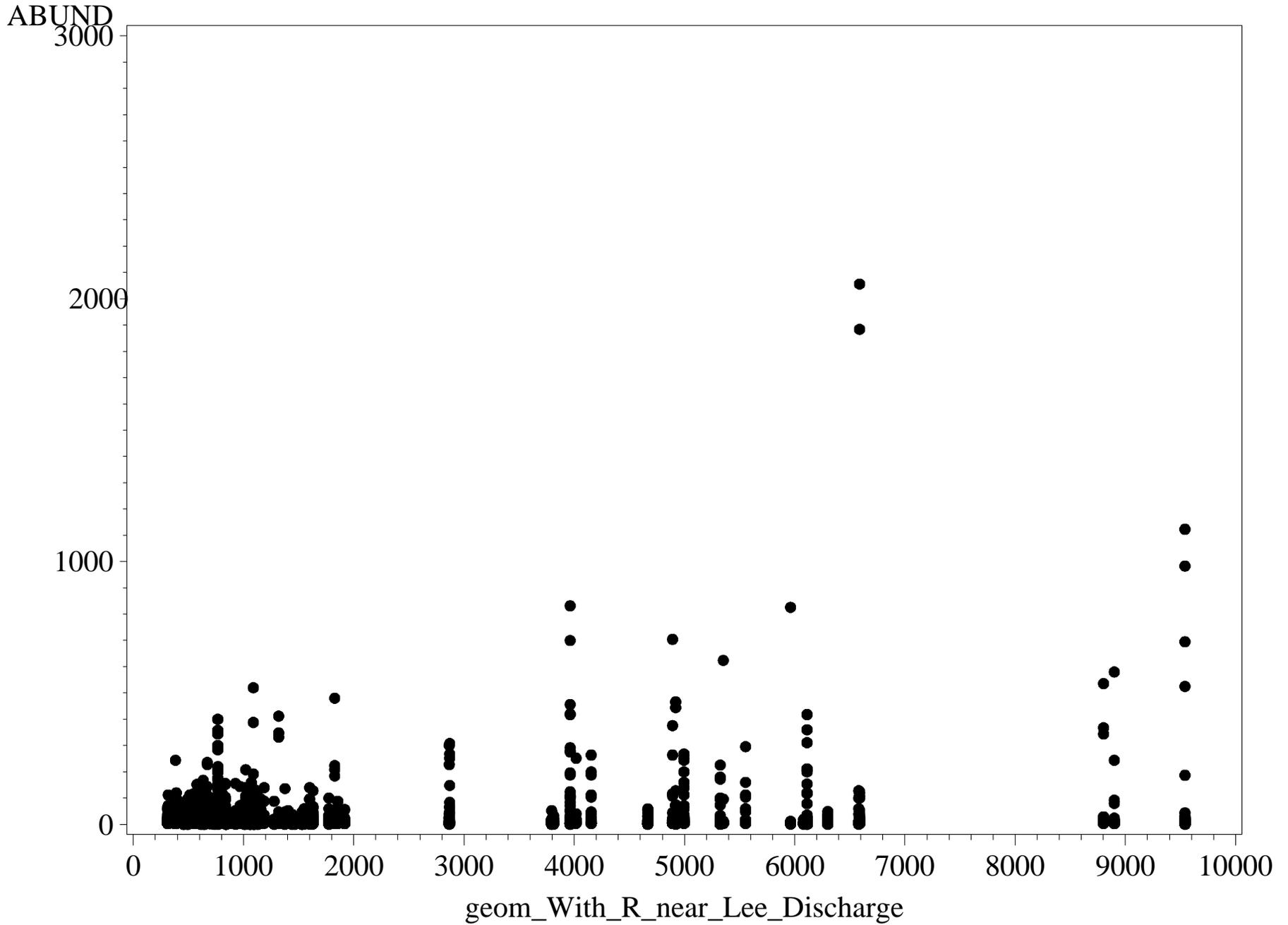
Taxonomic Order vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)
order=Amphipo



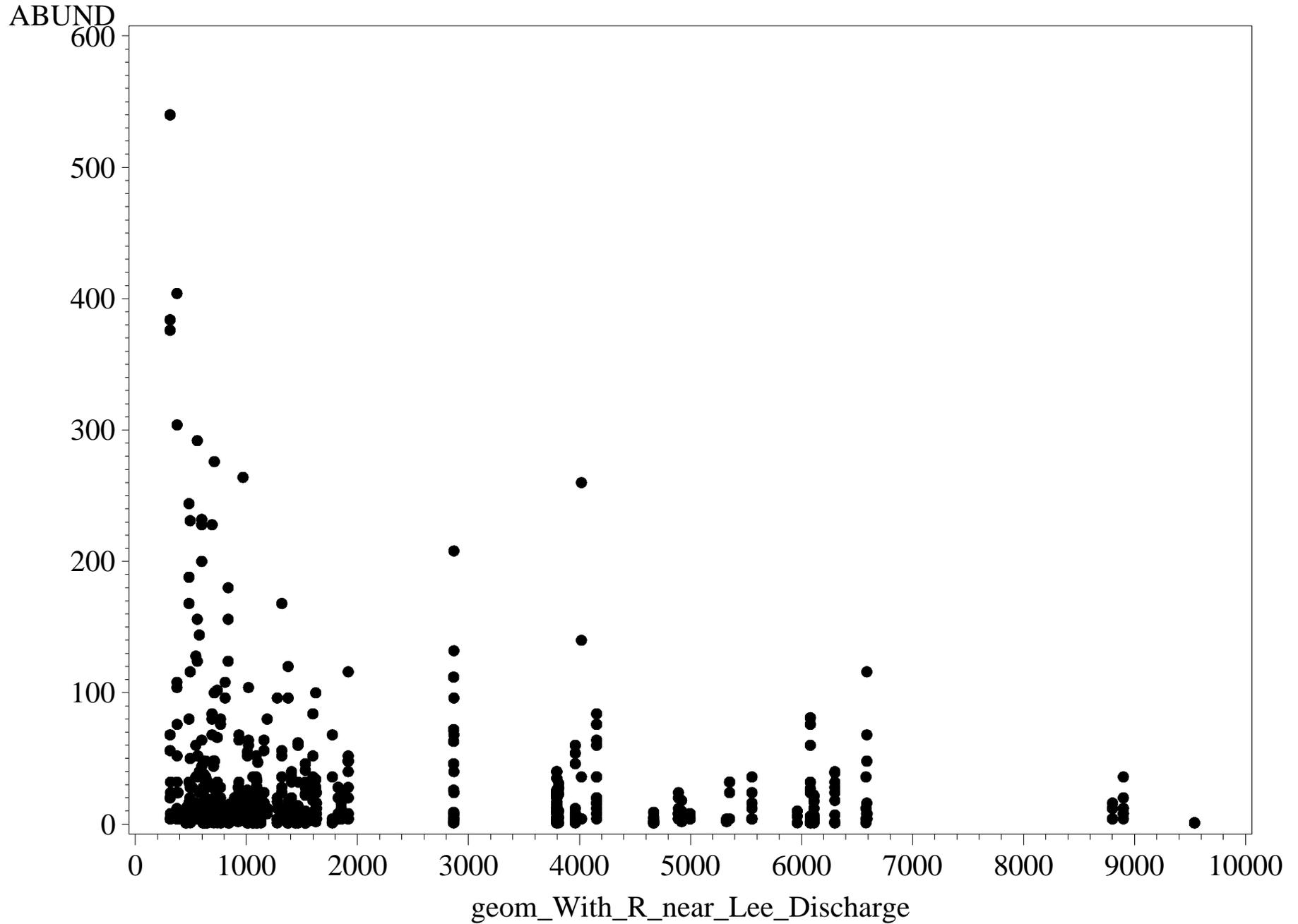
Taxonomic Order vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)
order=Basomma



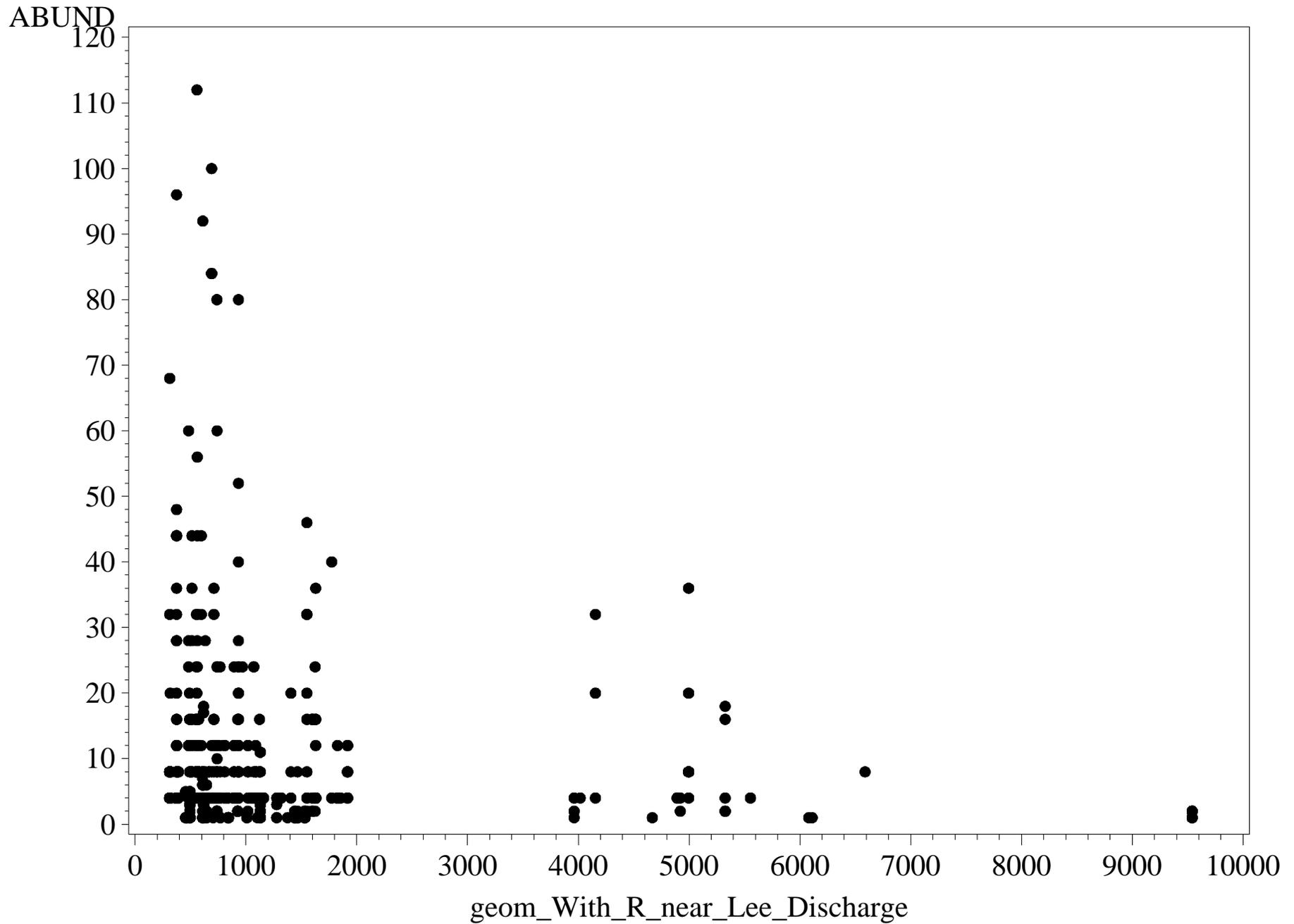
Taxonomic Order vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)
order=Diptera



Taxonomic Order vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)
order=Ephemer

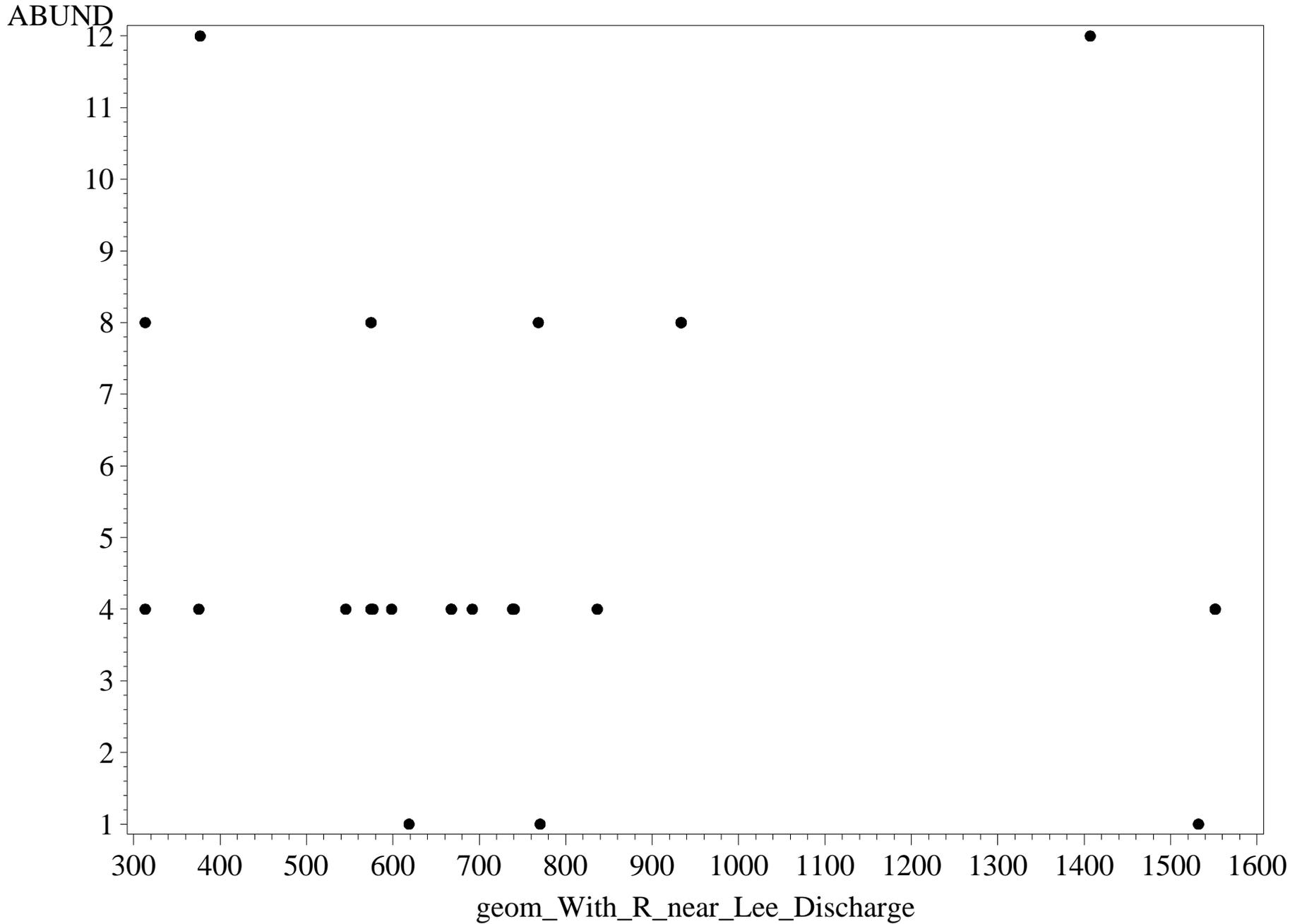


Taxonomic Order vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)
order=Haplota

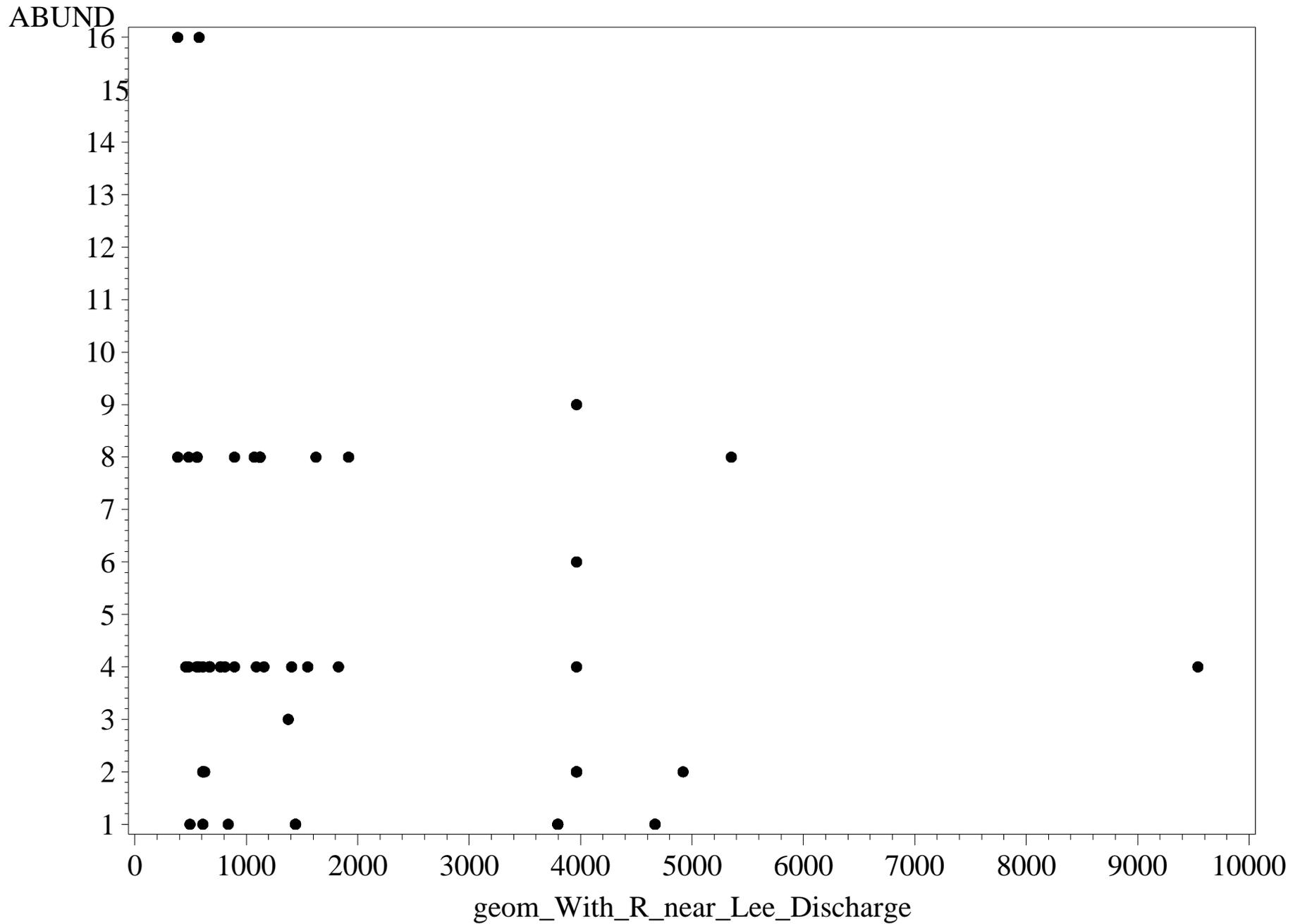


Taxonomic Order vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)

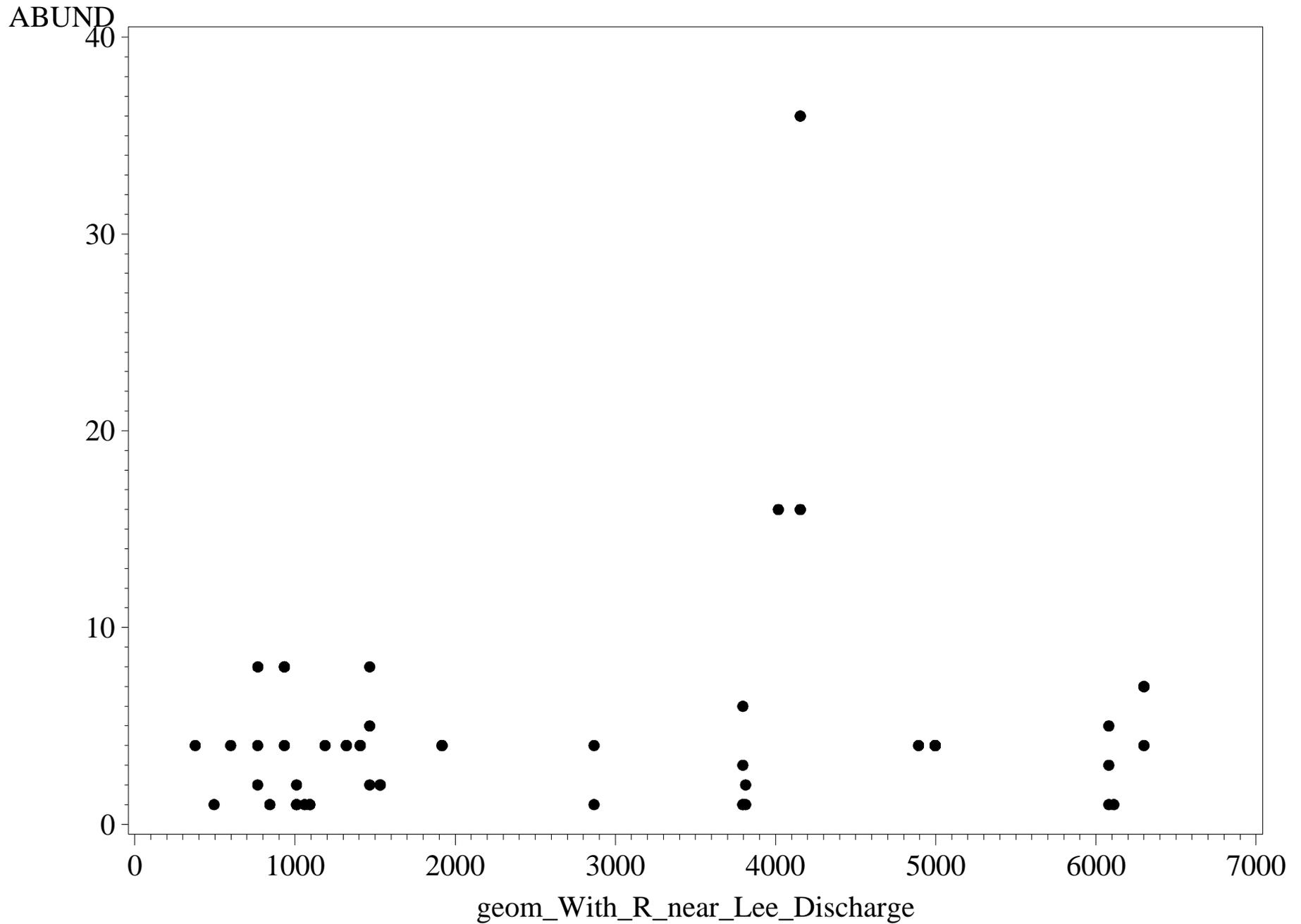
order=Hoplone



Taxonomic Order vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)
order=Hydroid

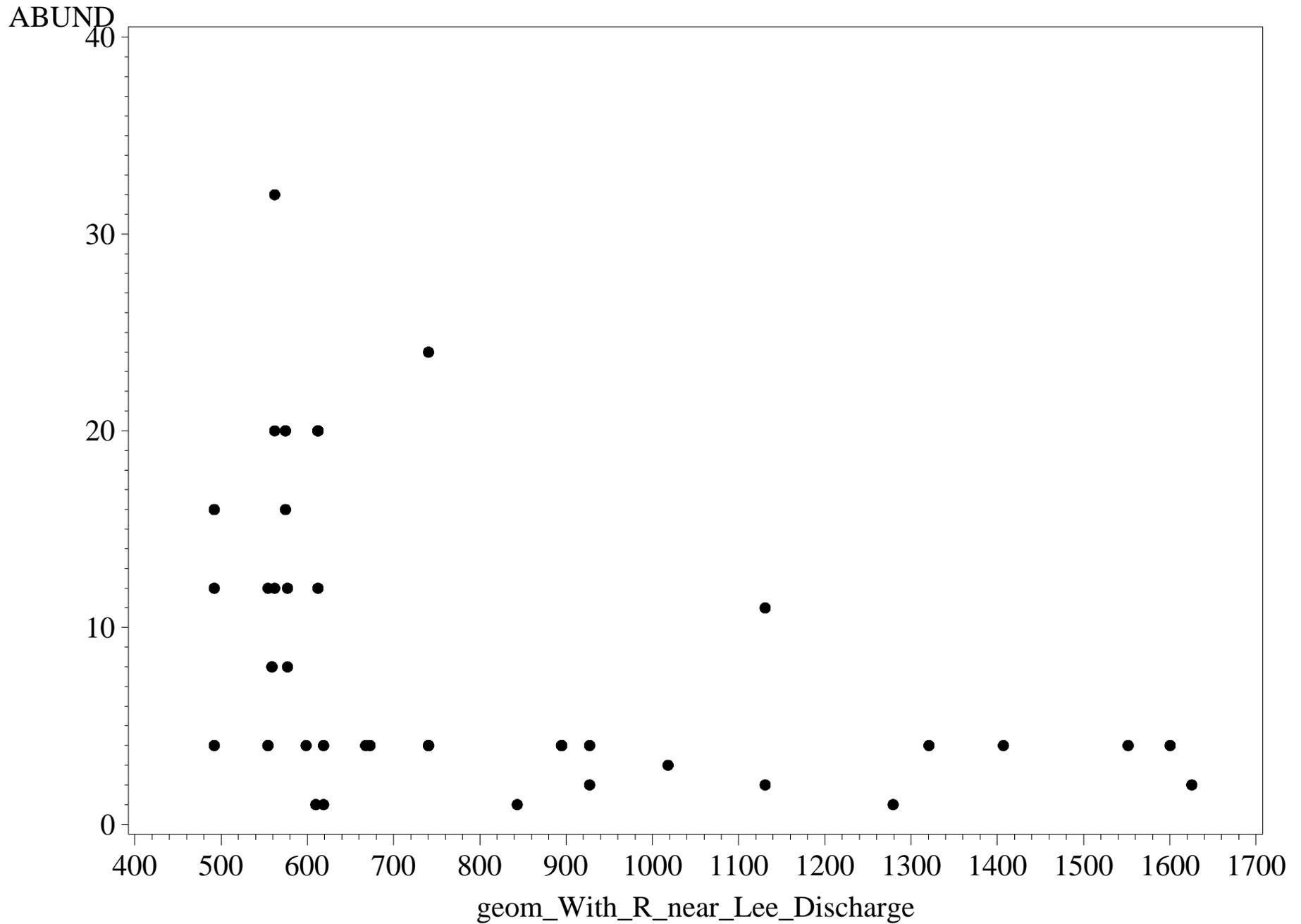


Taxonomic Order vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)
order=Megalop

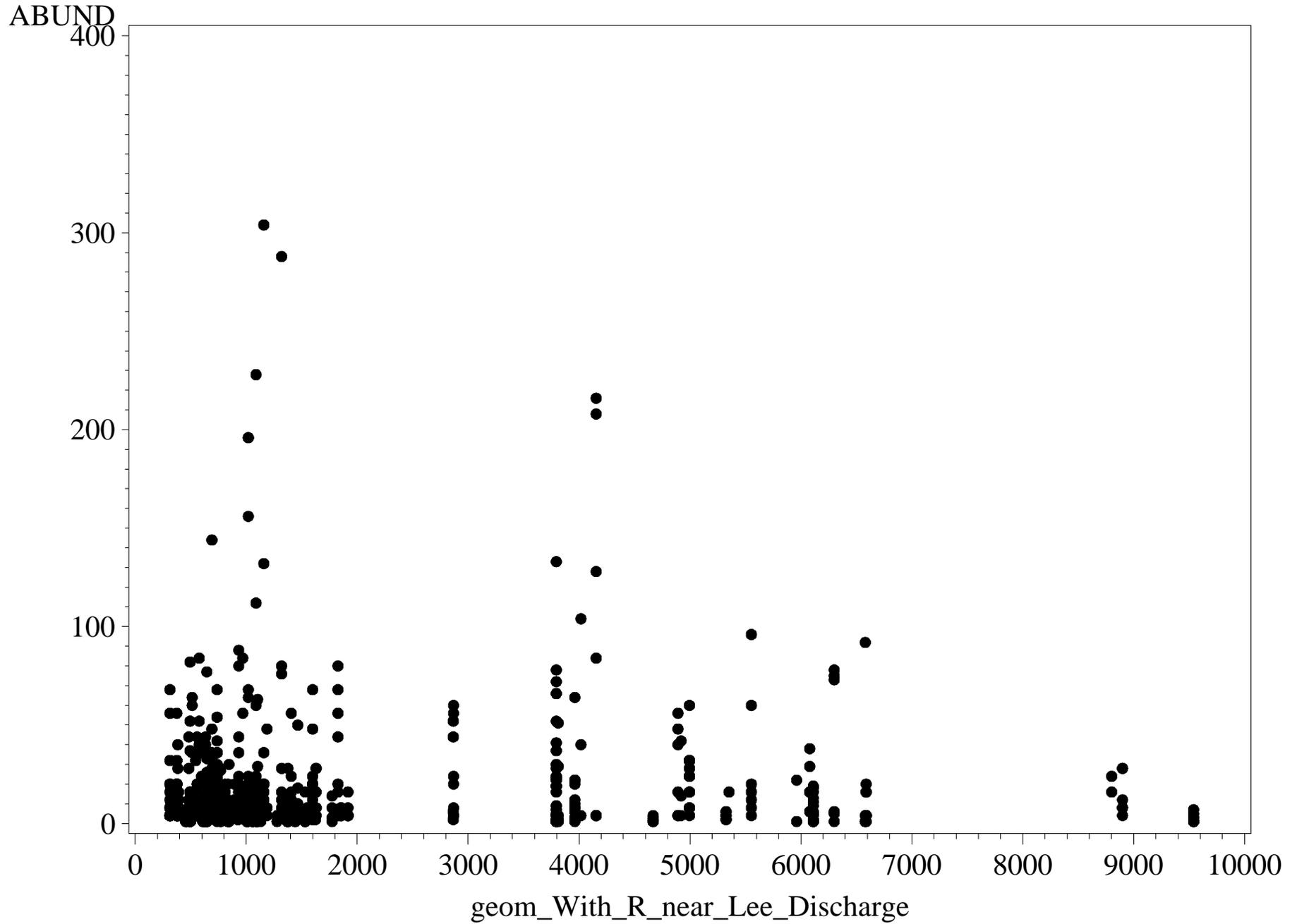


Taxonomic Order vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)

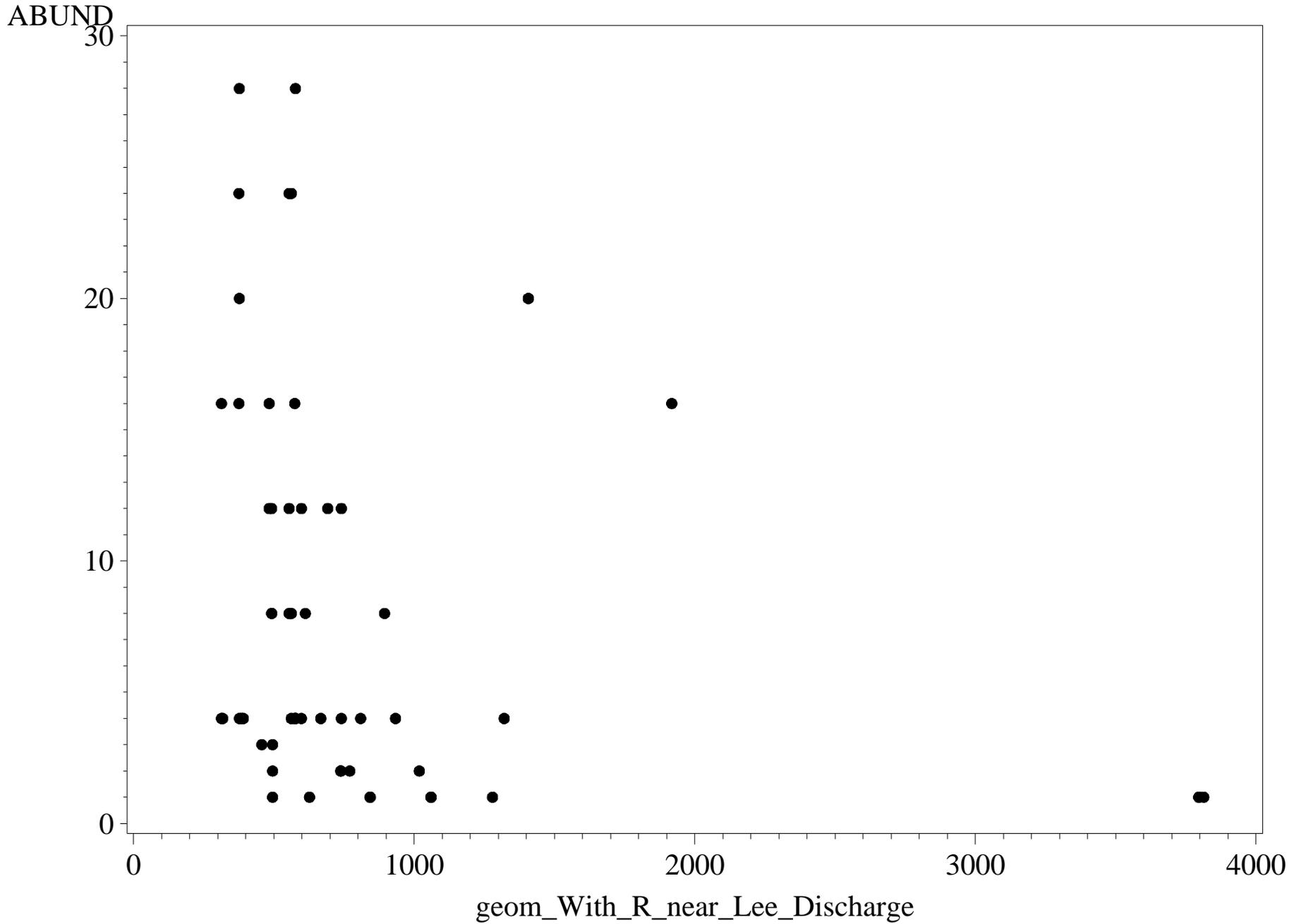
order=Neotaen



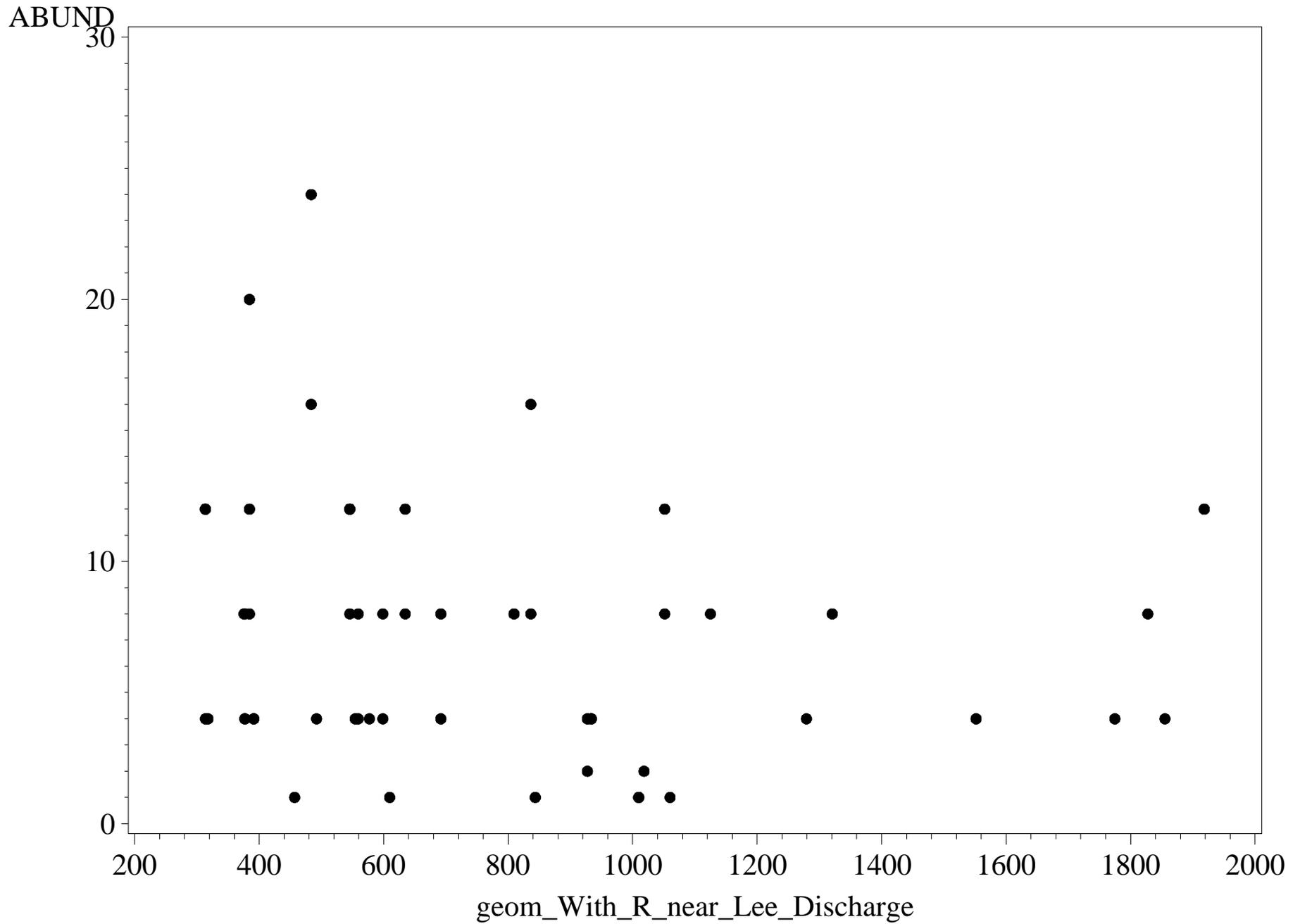
Taxonomic Order vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)
order=Trichop



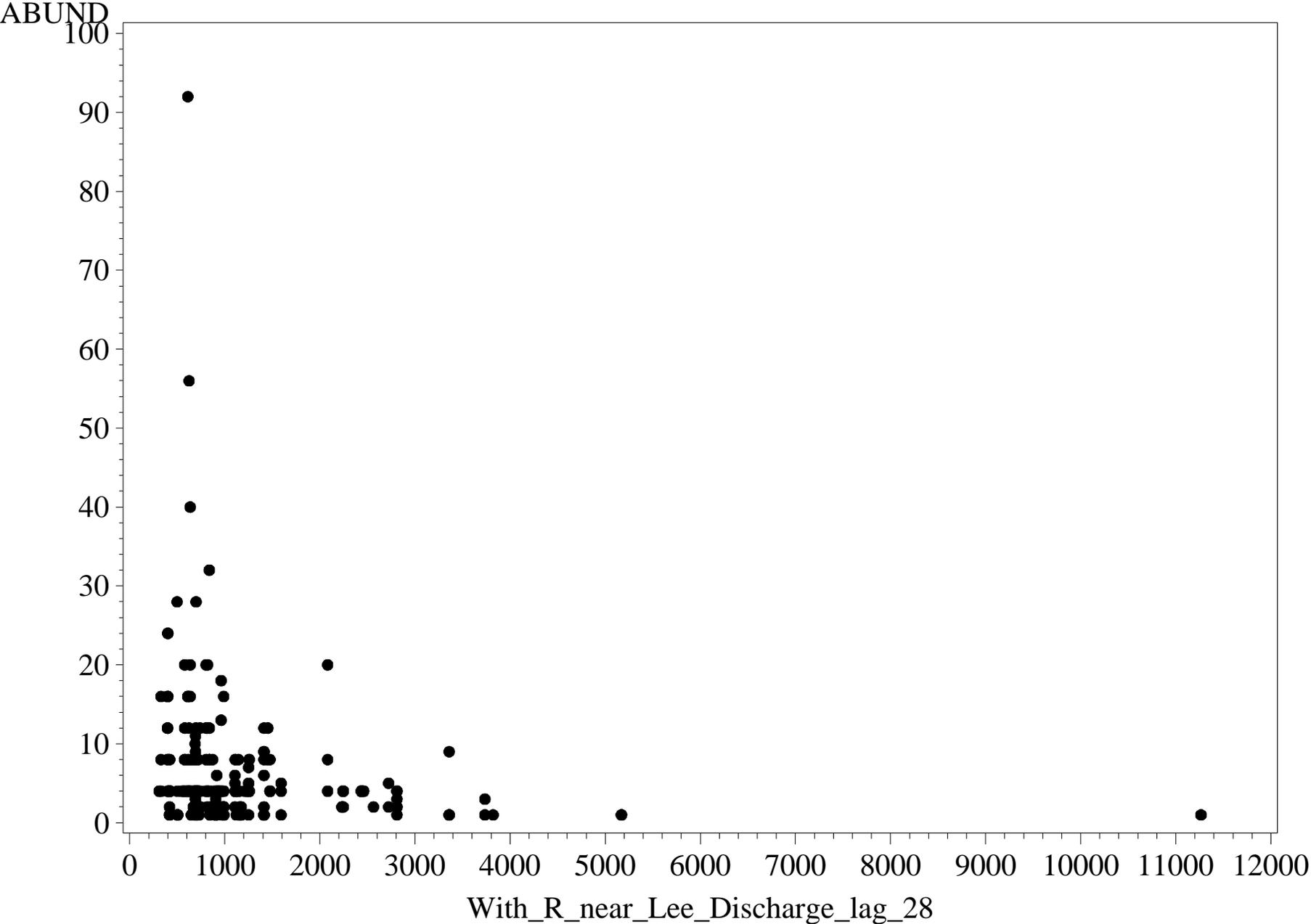
Taxonomic Order vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)
order=Triclad



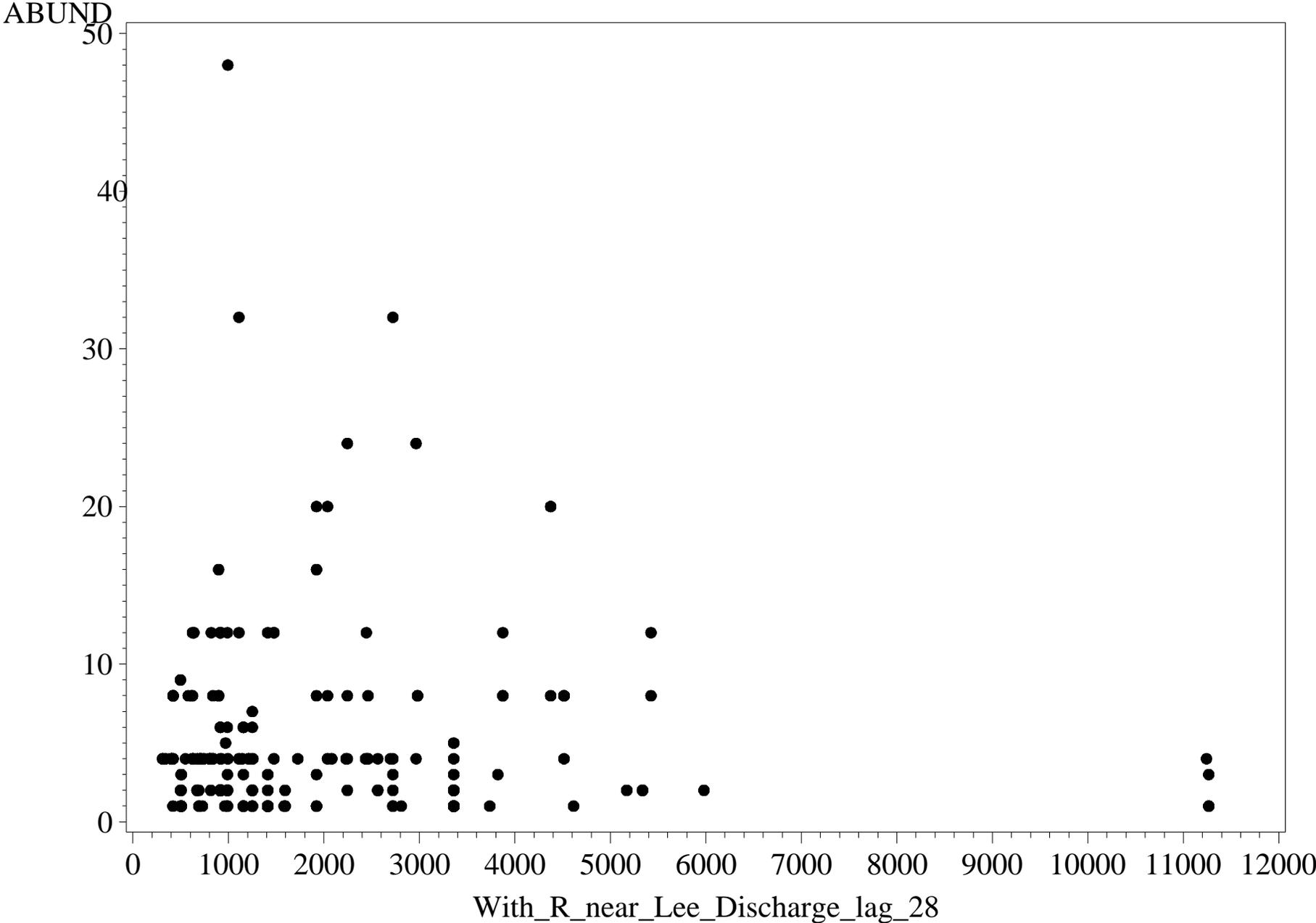
Taxonomic Order vs. 30 Day Geometric Mean of Estimated Withlacoochee Flow (at Lee)
order=Trombid



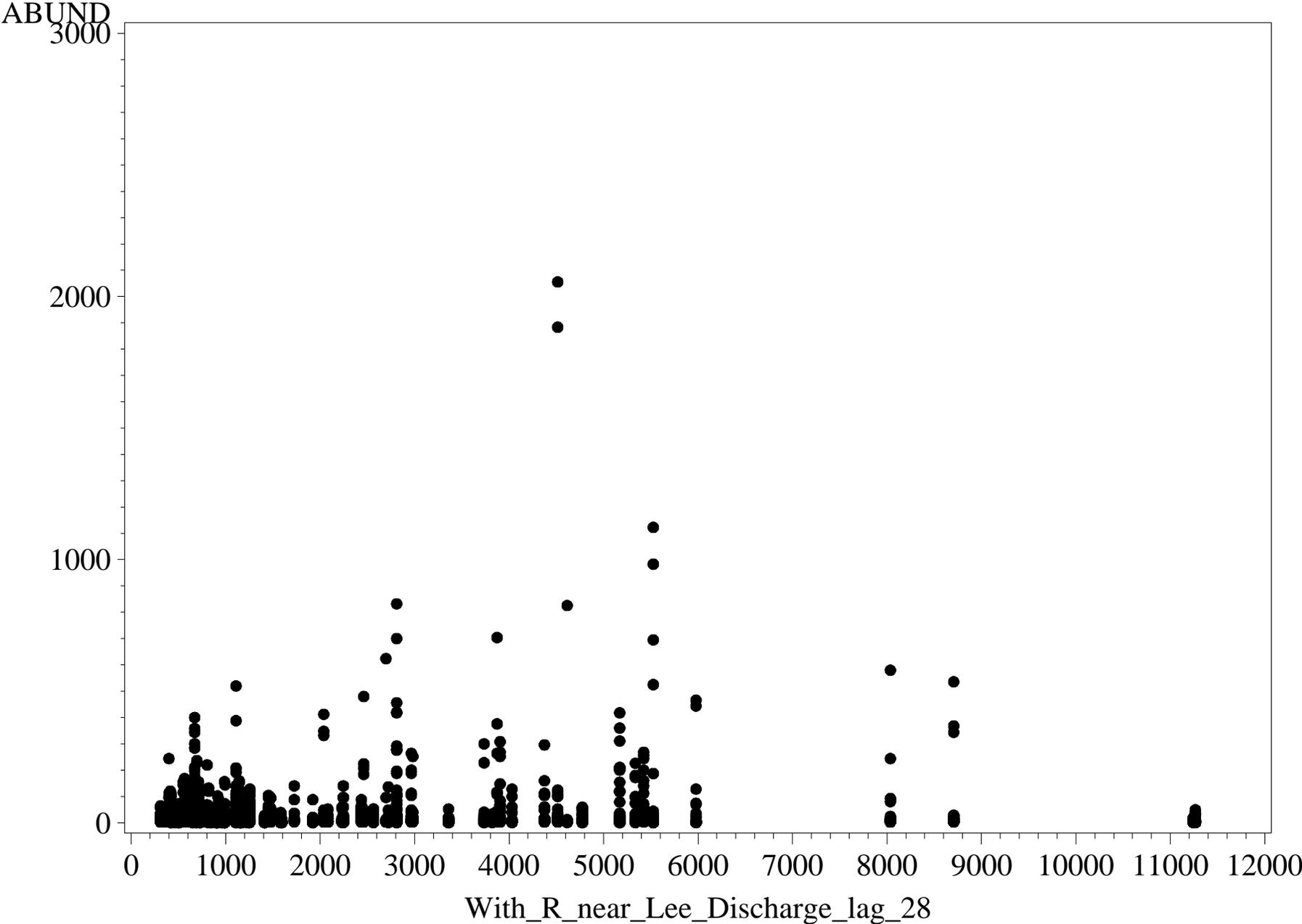
Taxonomic Order vs. 28 Day Lag of Estimated Withlacoochee Flow (at Lee)
order=Basomma



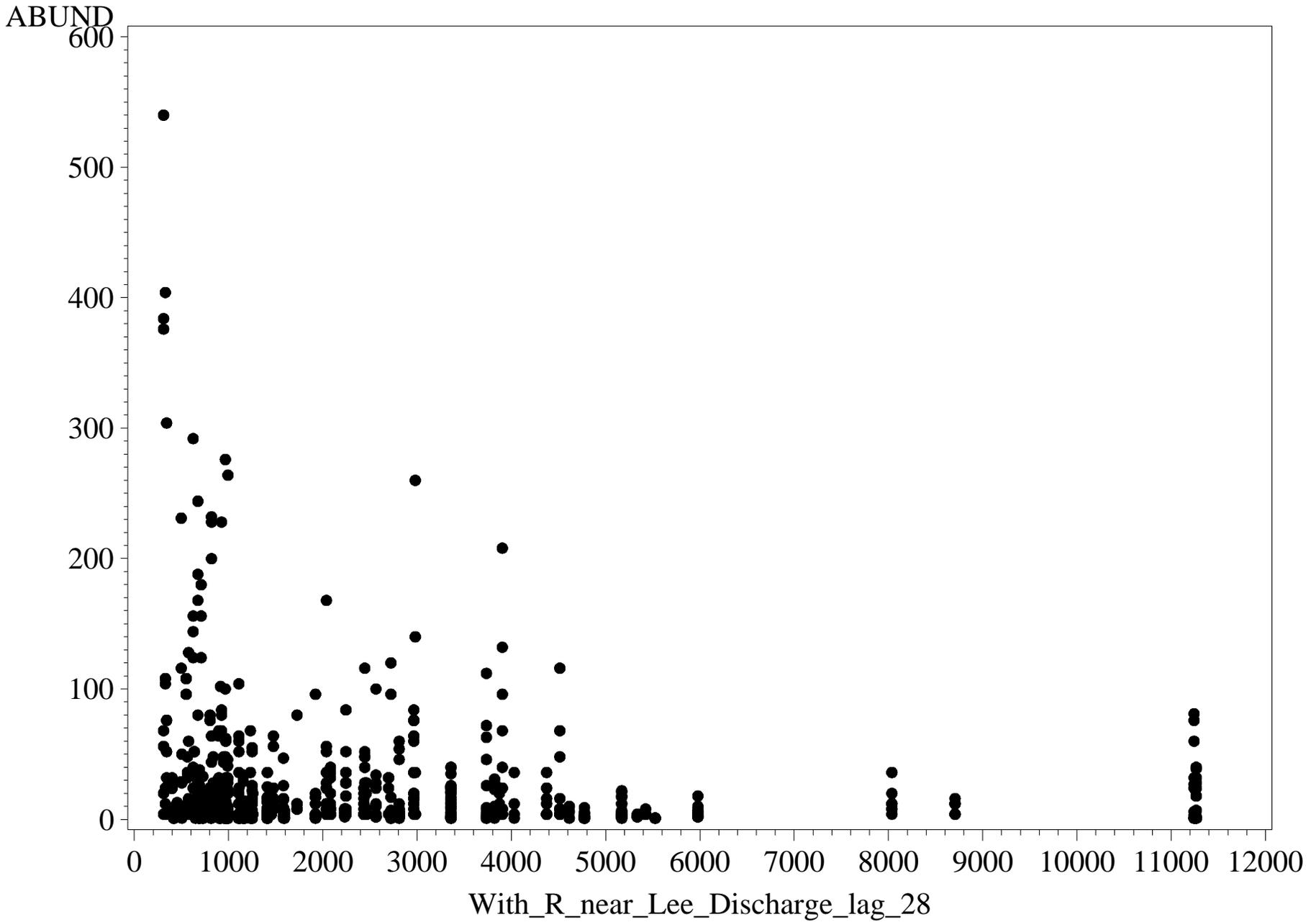
Taxonomic Order vs. 28 Day Lag of Estimated Withlacoochee Flow (at Lee)
order=Coleopt



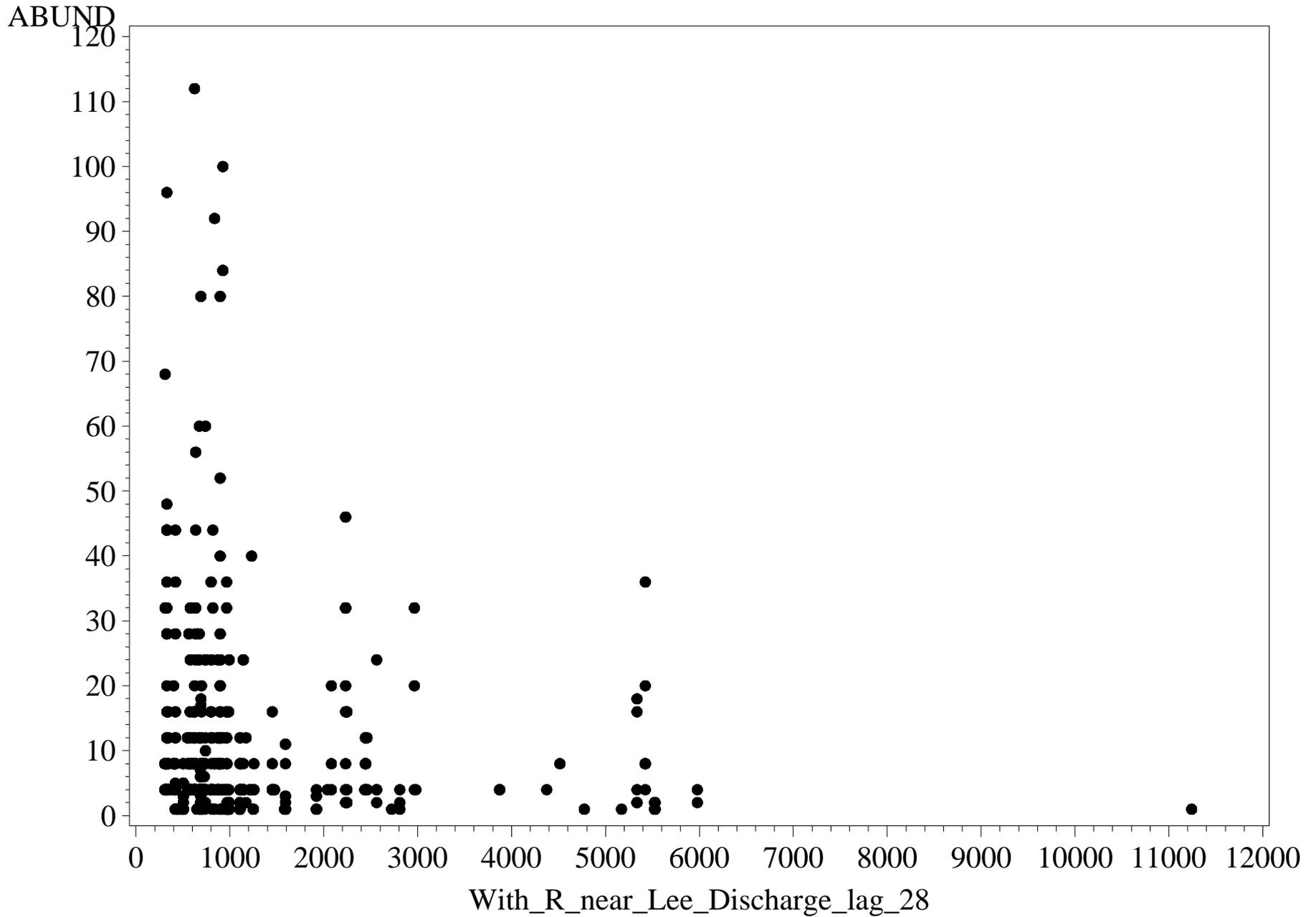
Taxonomic Order vs. 28 Day Lag of Estimated Withlacoochee Flow (at Lee)
order=Diptera



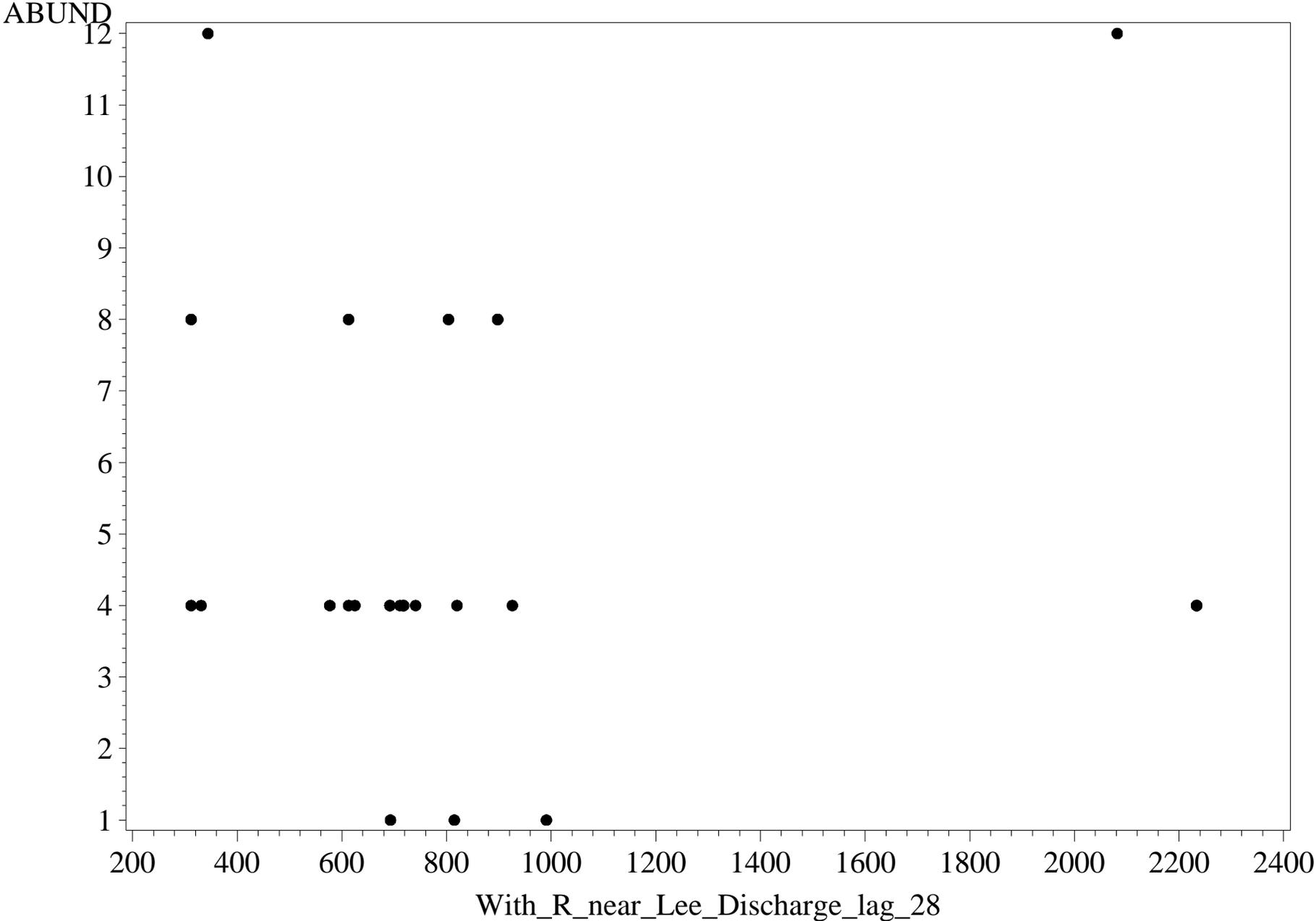
Taxonomic Order vs. 28 Day Lag of Estimated Withlacoochee Flow (at Lee)
order=Ephemer



Taxonomic Order vs. 28 Day Lag of Estimated Withlacoochee Flow (at Lee)
order=Haplota

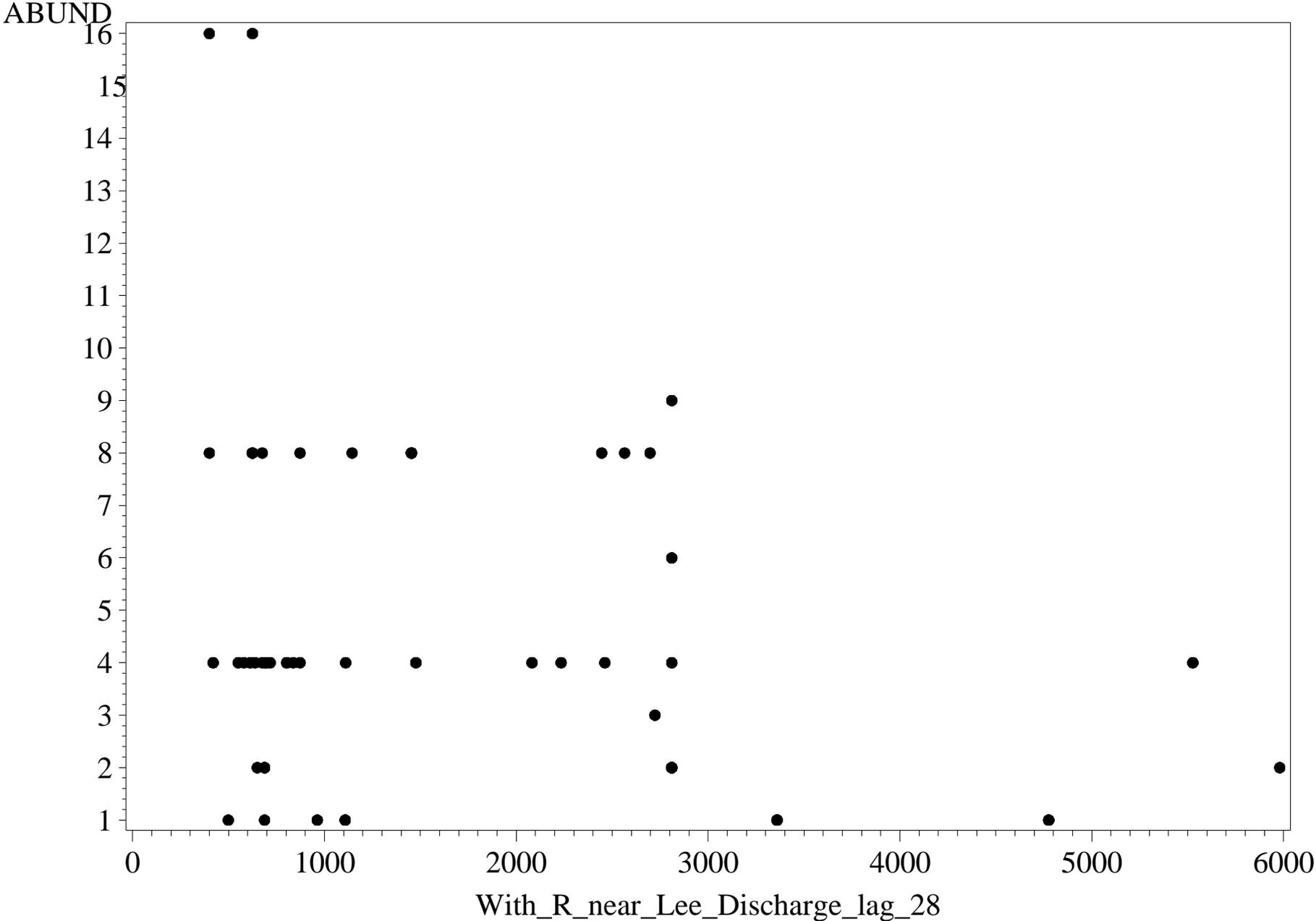


Taxonomic Order vs. 28 Day Lag of Estimated Withlacoochee Flow (at Lee)
order=Hoplone

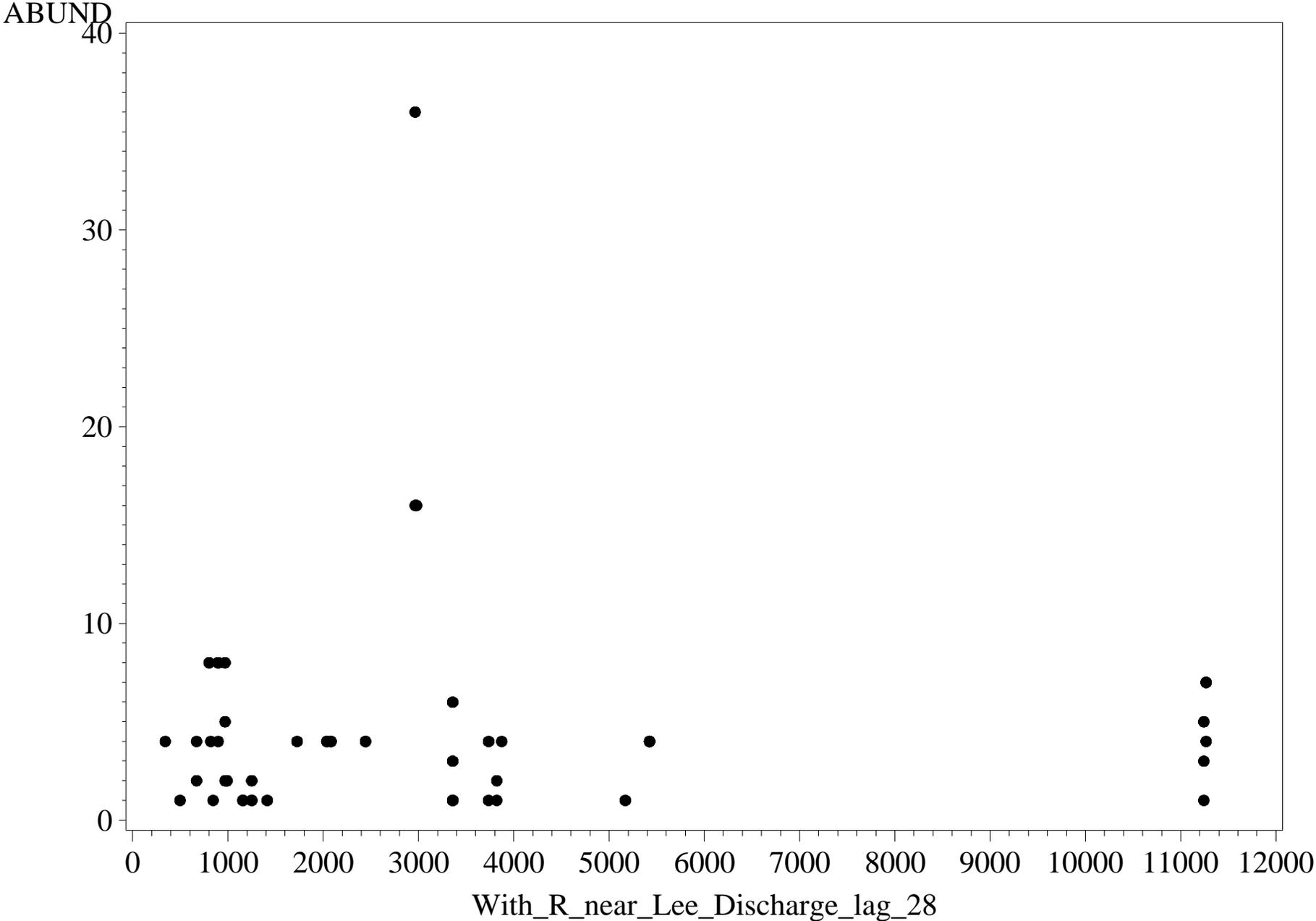


Taxonomic Order vs. 28 Day Lag of Estimated Withlacoochee Flow (at Lee)

order=Hydroid

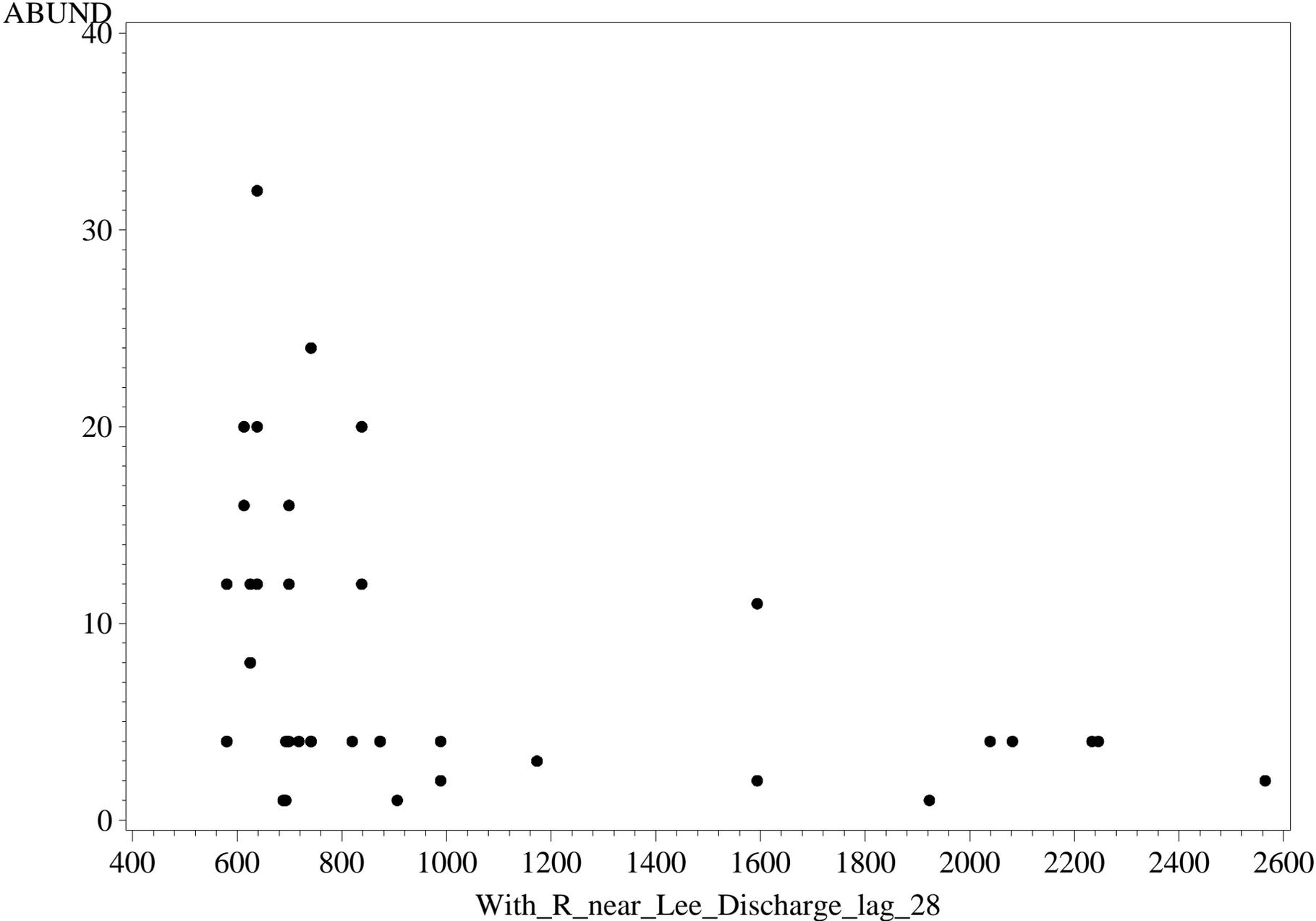


Taxonomic Order vs. 28 Day Lag of Estimated Withlacoochee Flow (at Lee)
order=Megalop

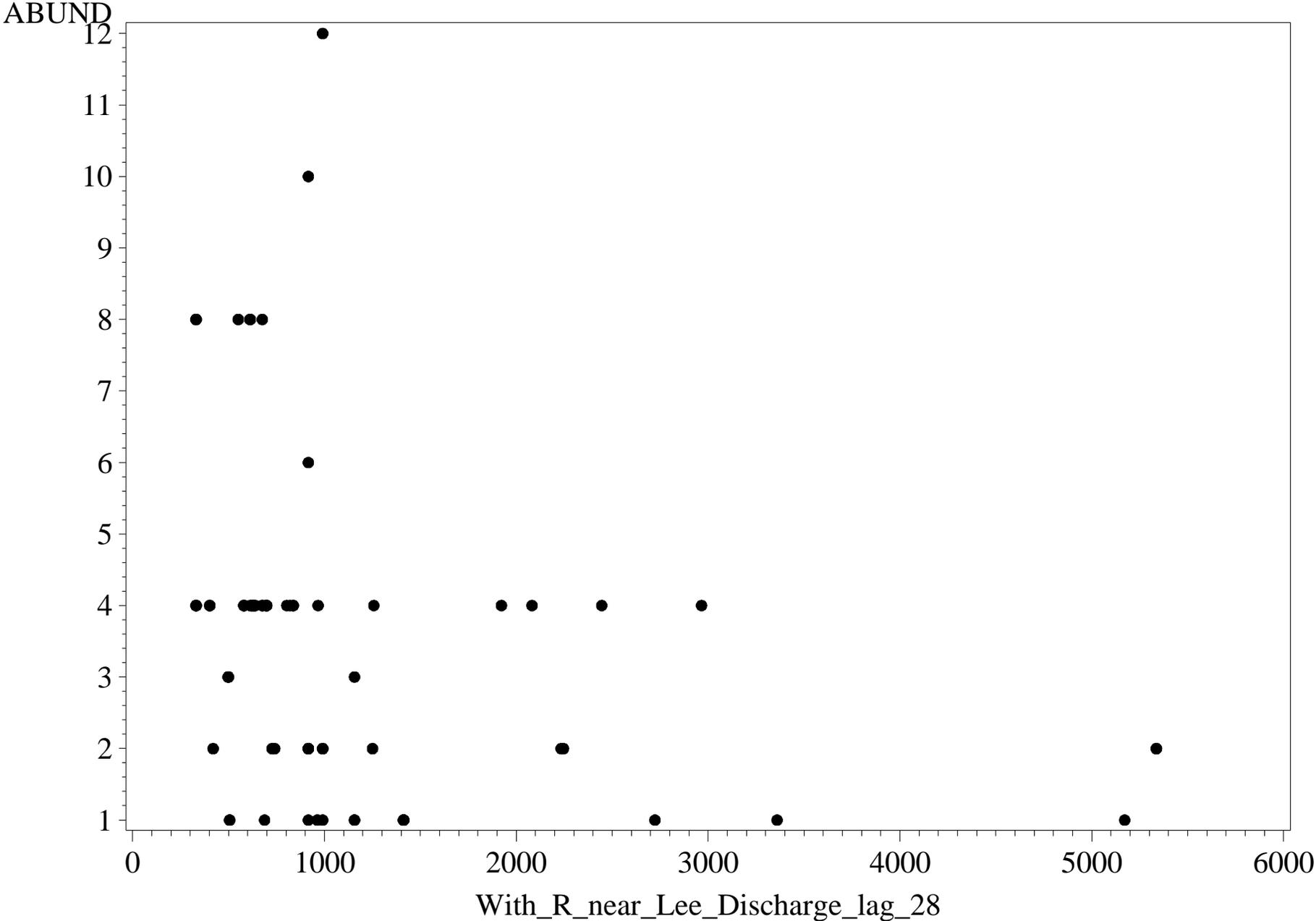


Taxonomic Order vs. 28 Day Lag of Estimated Withlacoochee Flow (at Lee)

order=Neotaen

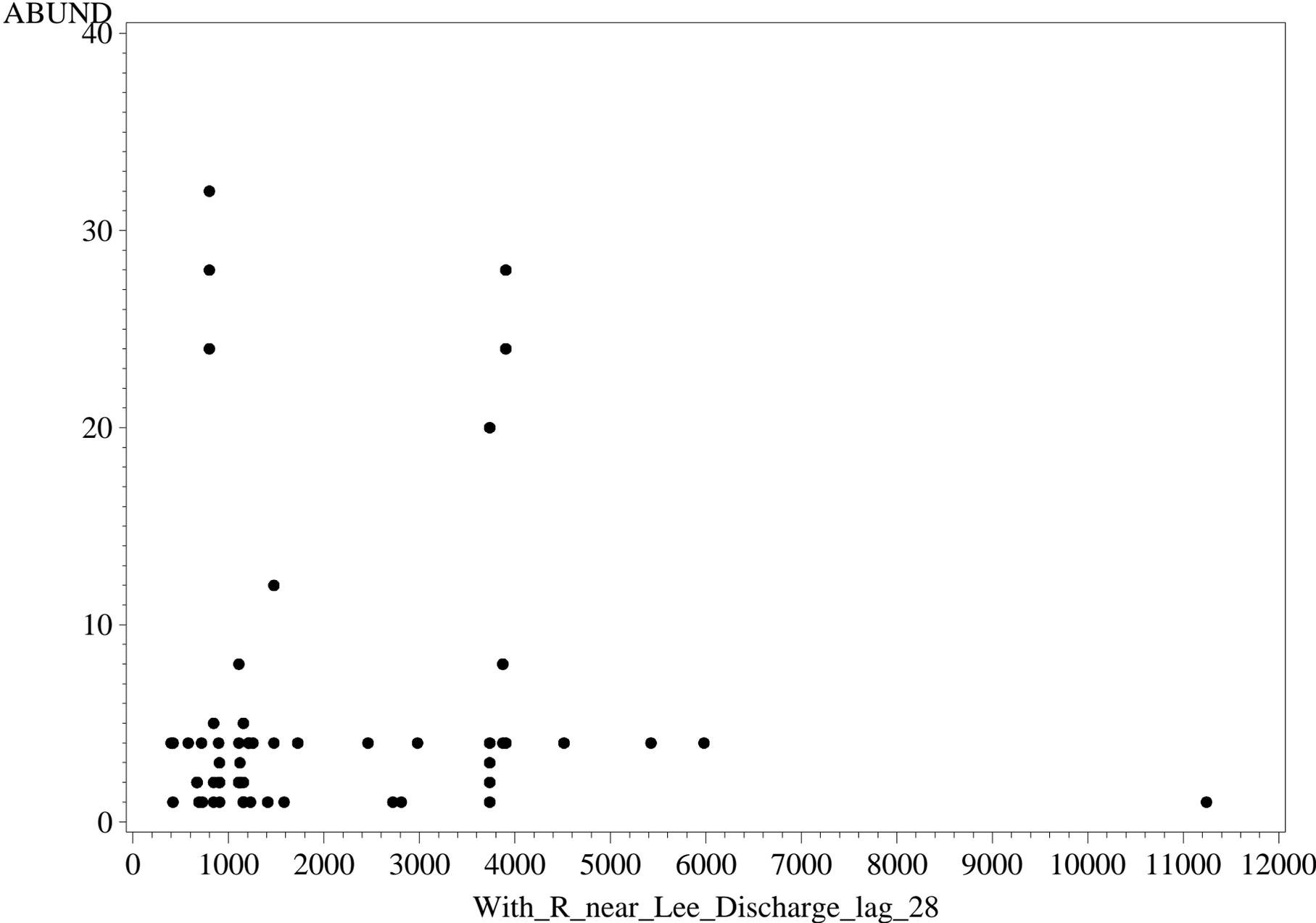


Taxonomic Order vs. 28 Day Lag of Estimated Withlacoochee Flow (at Lee)
order=Odonata



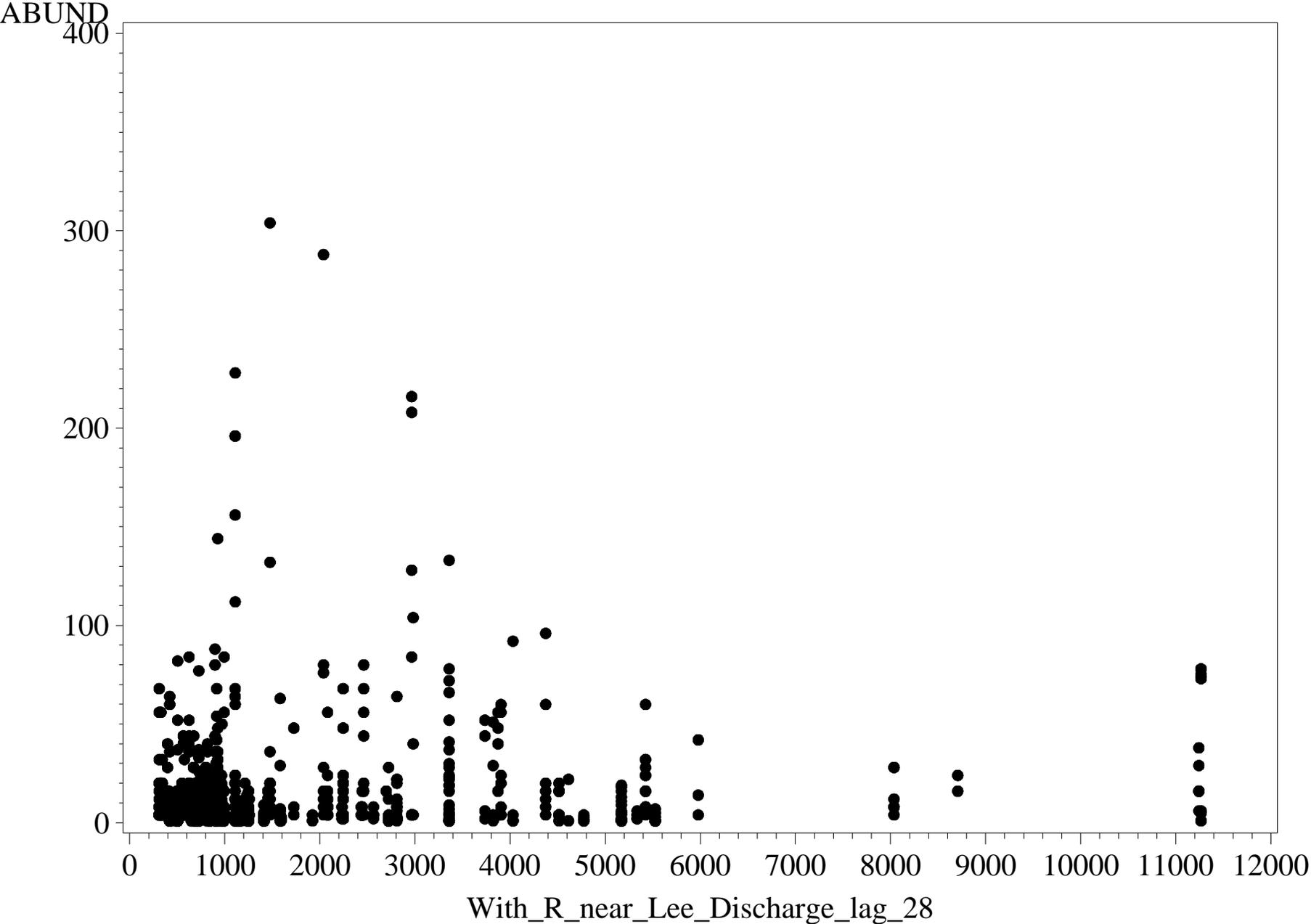
Taxonomic Order vs. 28 Day Lag of Estimated Withlacoochee Flow (at Lee)

order=Plecopt

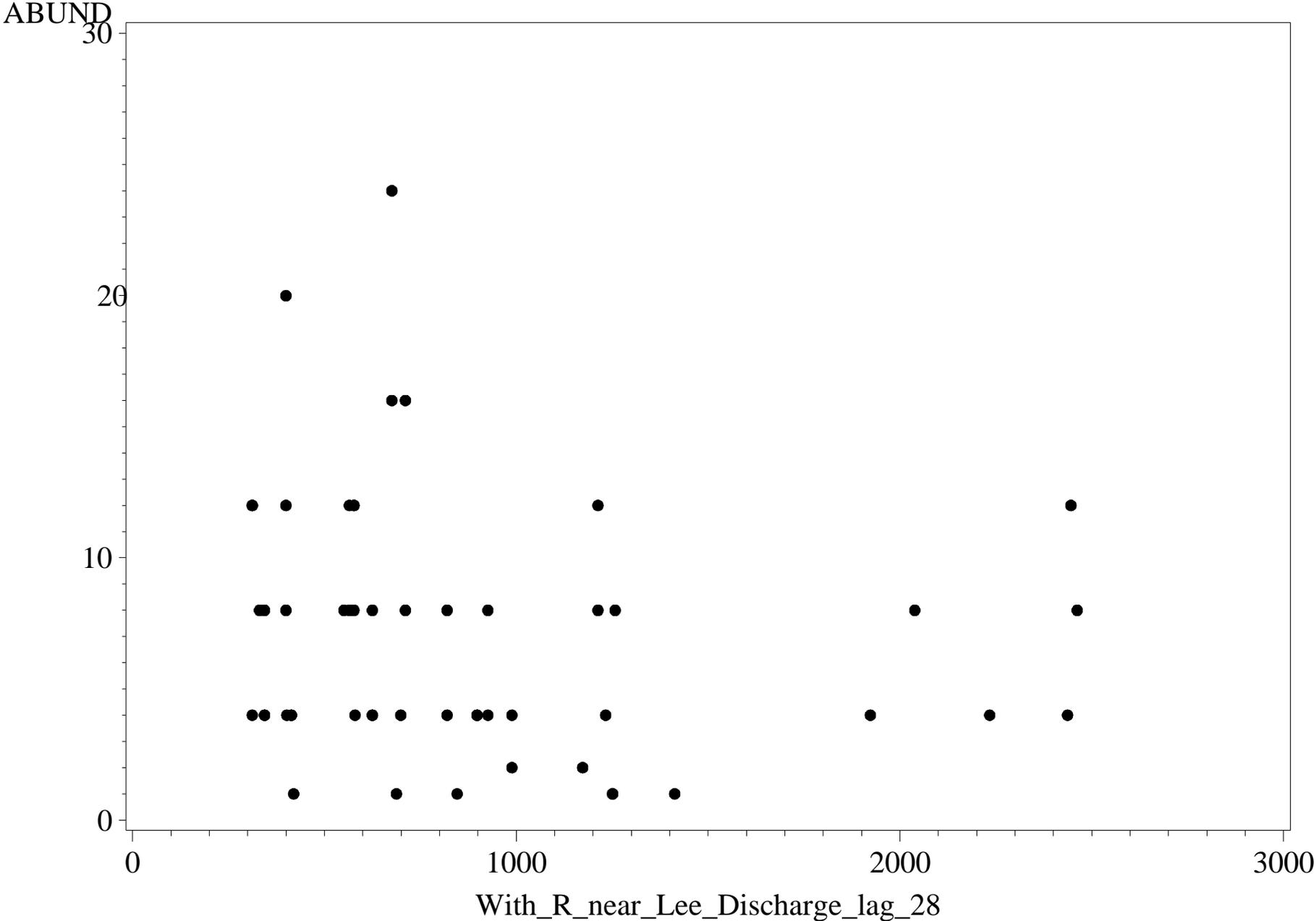


Taxonomic Order vs. 28 Day Lag of Estimated Withlacoochee Flow (at Lee)

order=Trichop



Taxonomic Order vs. 28 Day Lag of Estimated Withlacoochee Flow (at Lee)
order=Trombid

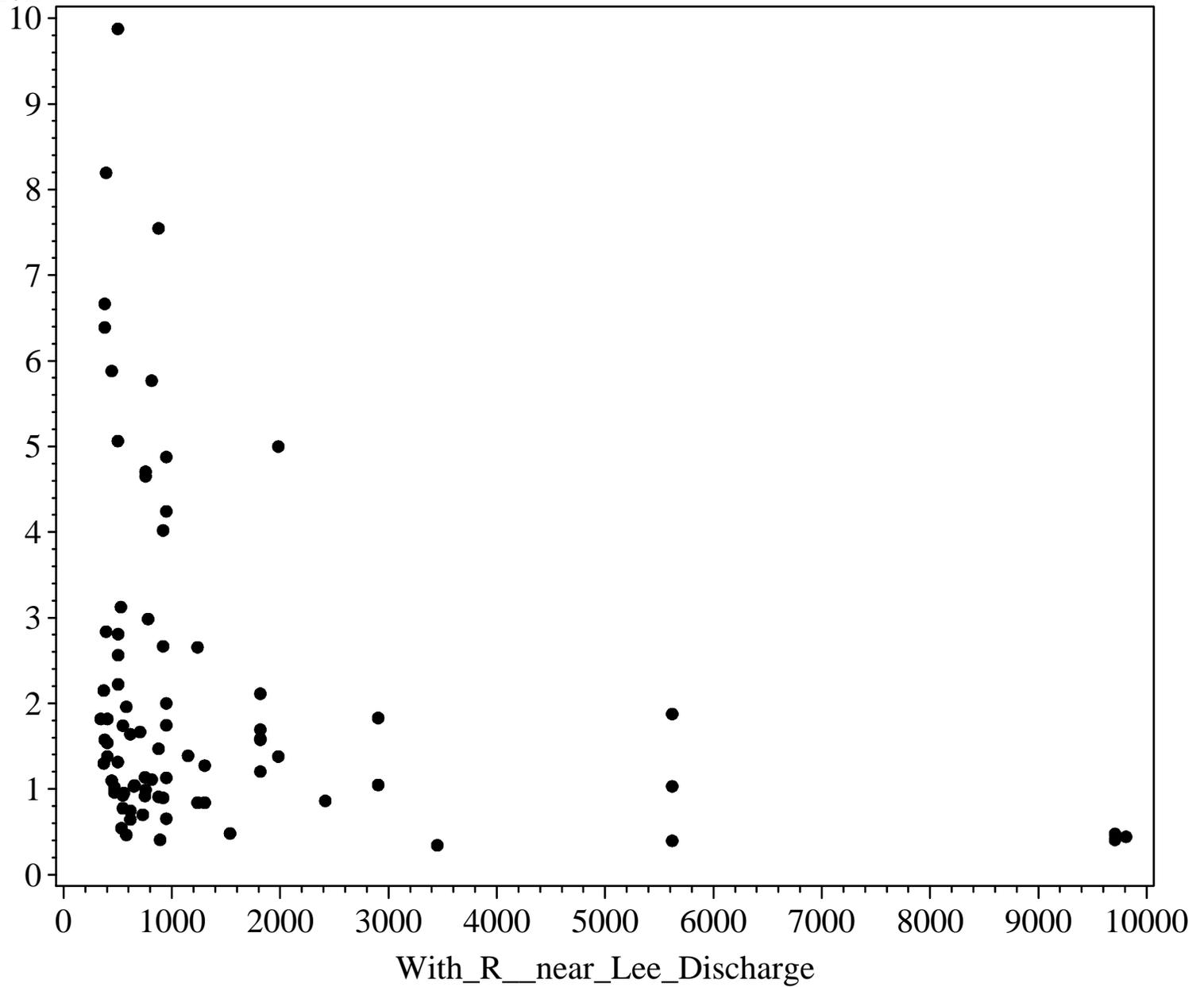


APPENDIX C5

Percent Composition of Taxonomic Order vs. Estimated Withlacoochee Flow (at Lee)

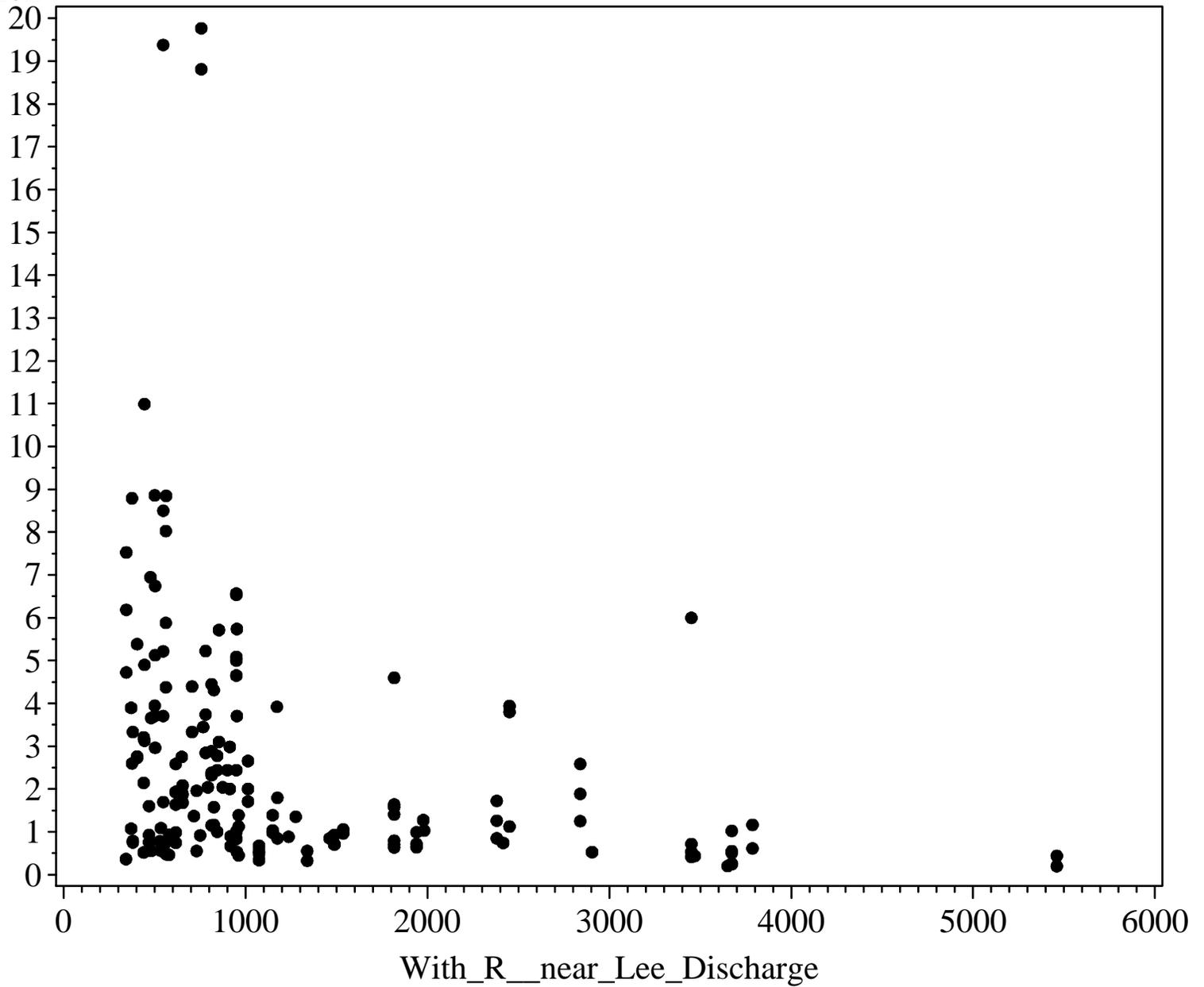
order=Amphipo

Percent Composition



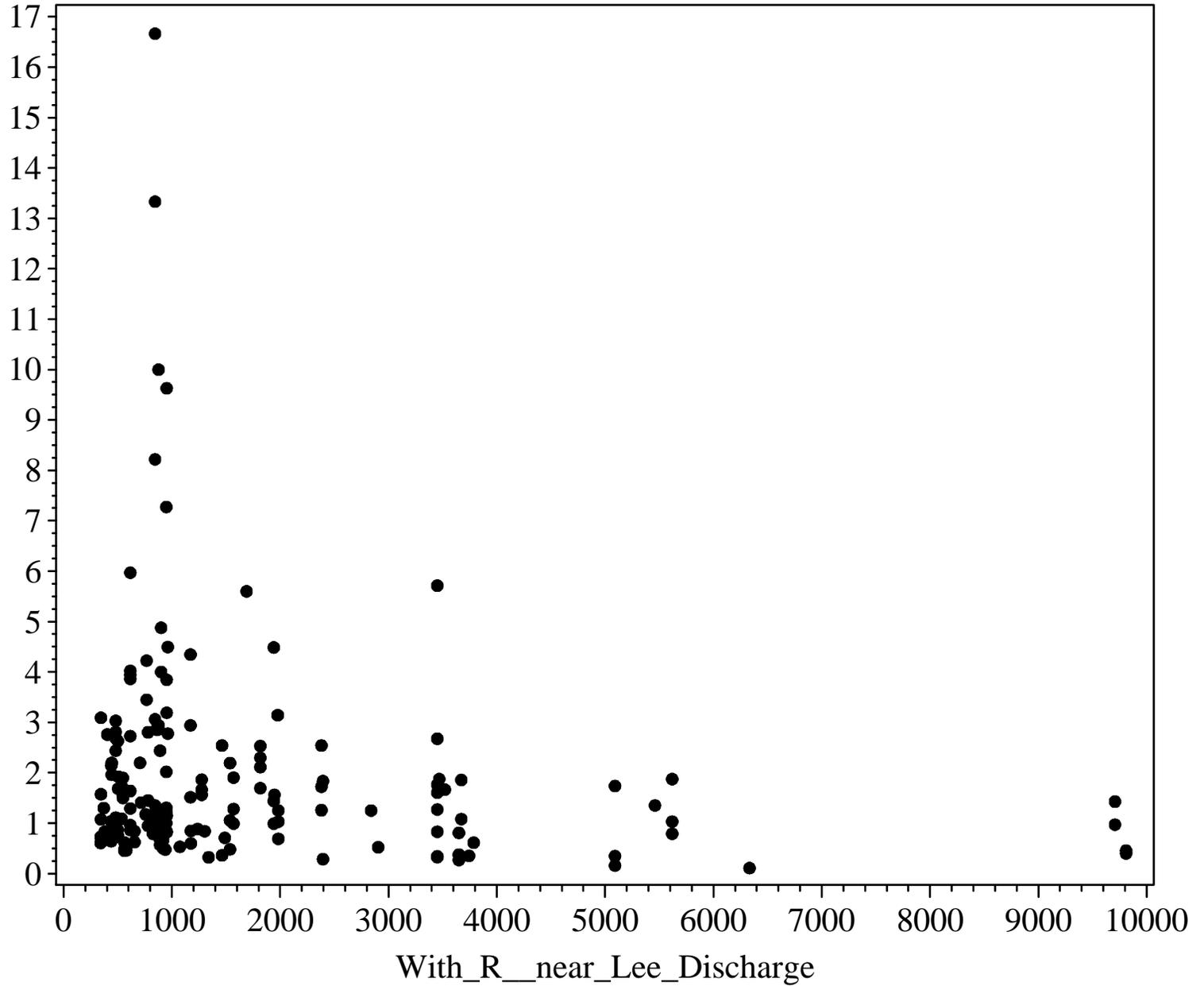
Percent Composition of Taxonomic Order vs. Estimated Withlacoochee Flow (at Lee)
order=Basomma

Percent Composition

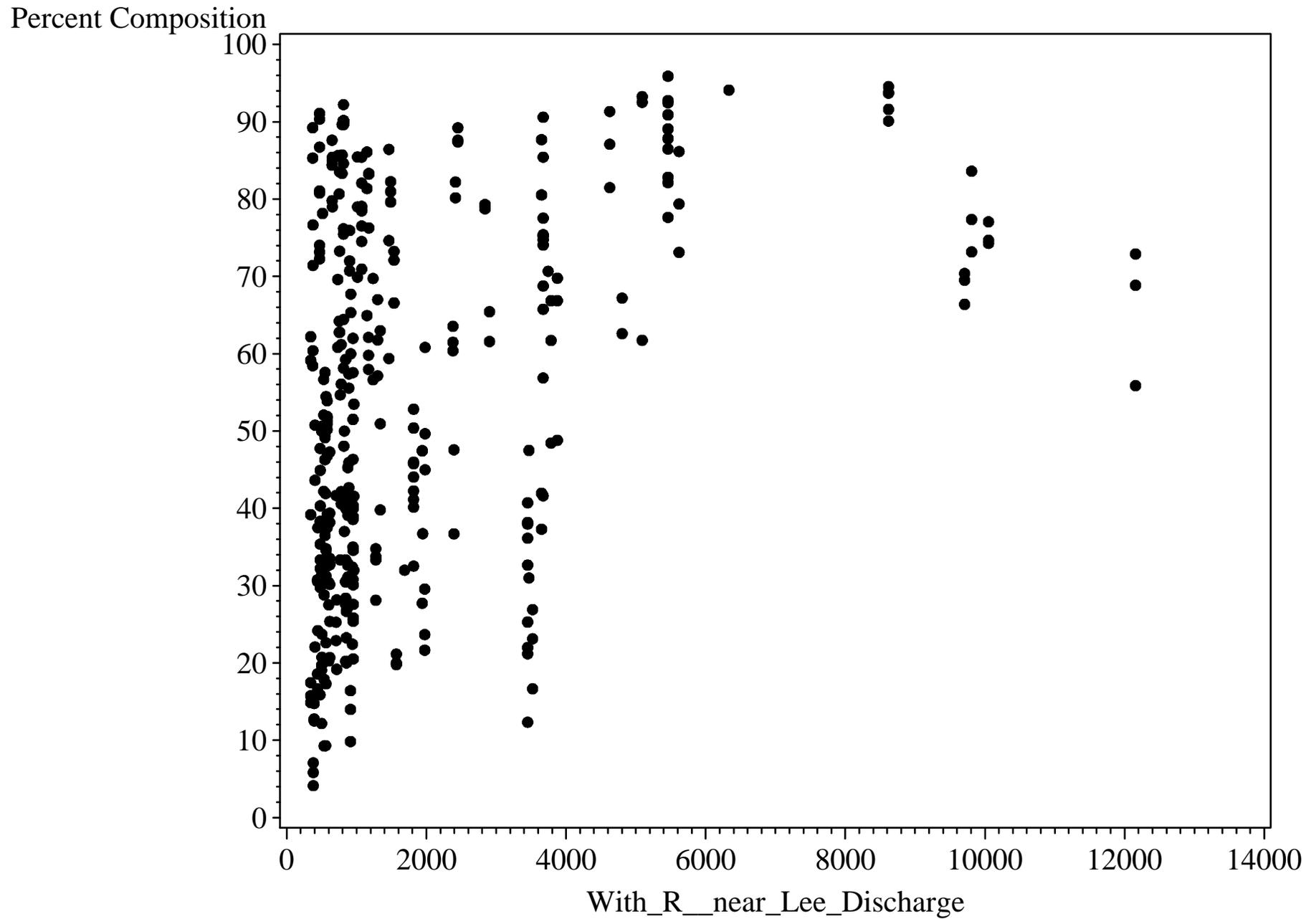


Percent Composition of Taxonomic Order vs. Estimated Withlacoochee Flow (at Lee)
order=Coleopt

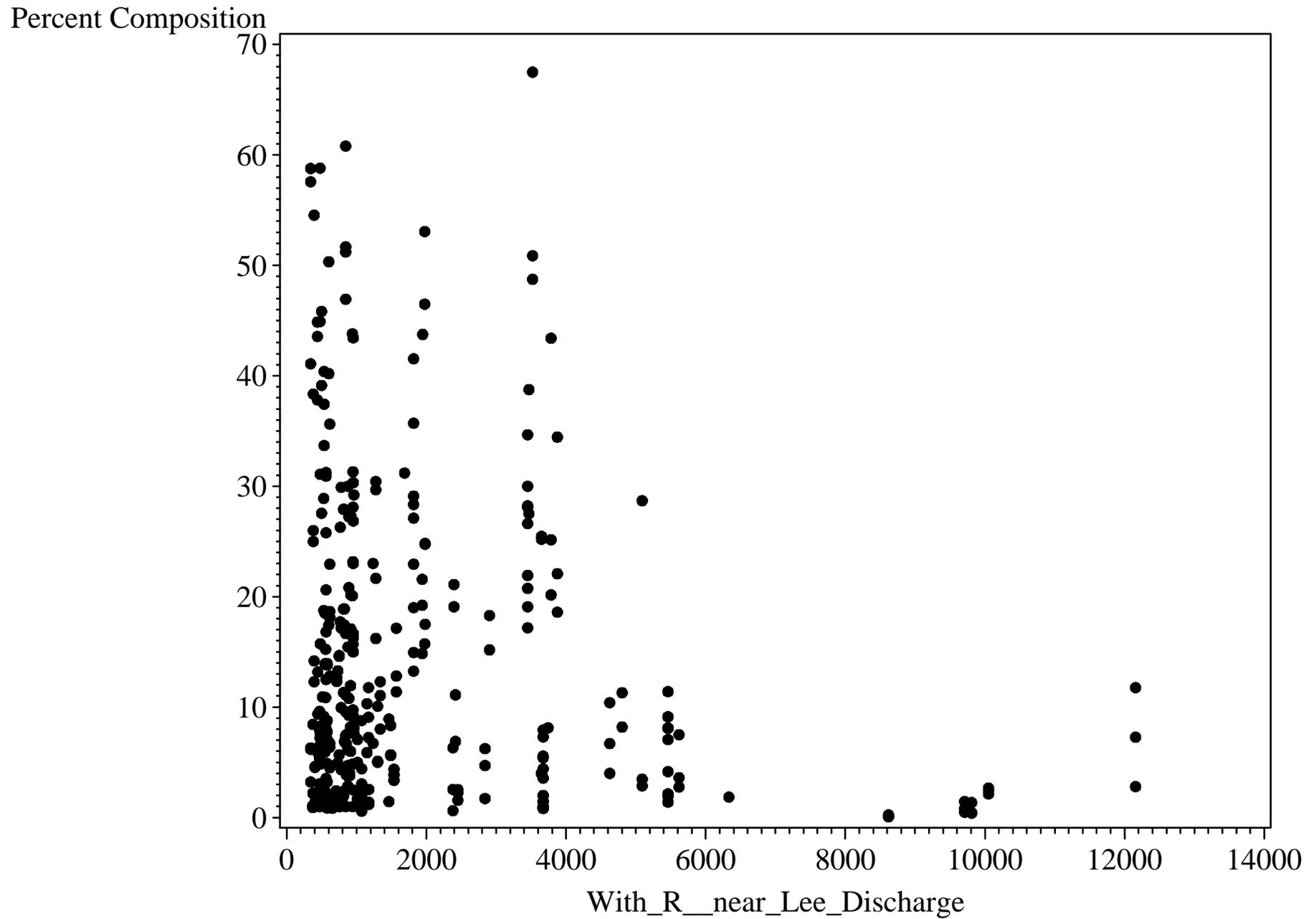
Percent Composition



Percent Composition of Taxonomic Order vs. Estimated Withlacoochee Flow (at Lee)
order=Diptera



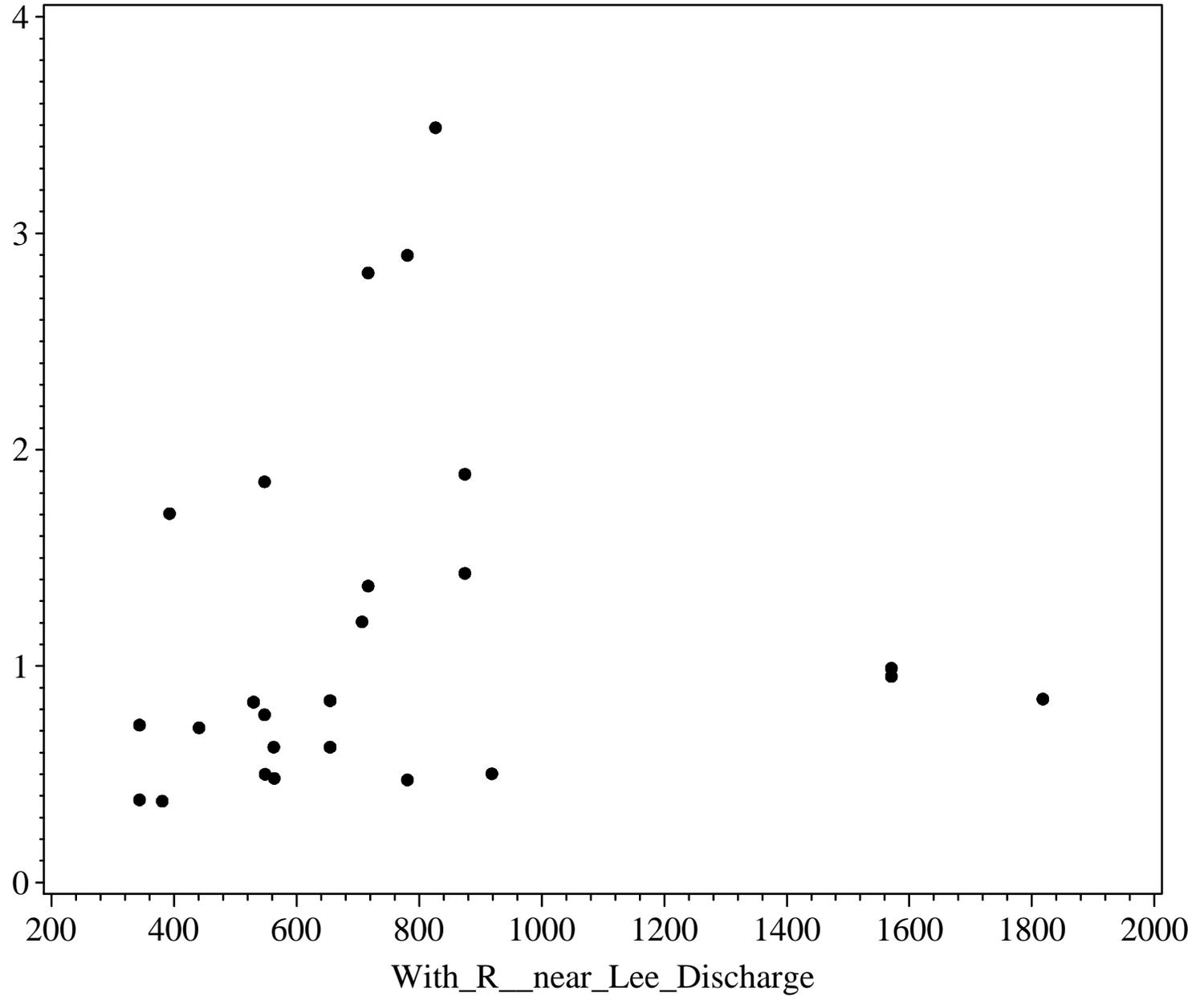
Percent Composition of Taxonomic Order vs. Estimated Withlacoochee Flow (at Lee)
order=Ephemer



Percent Composition of Taxonomic Order vs. Estimated Withlacoochee Flow (at Lee)

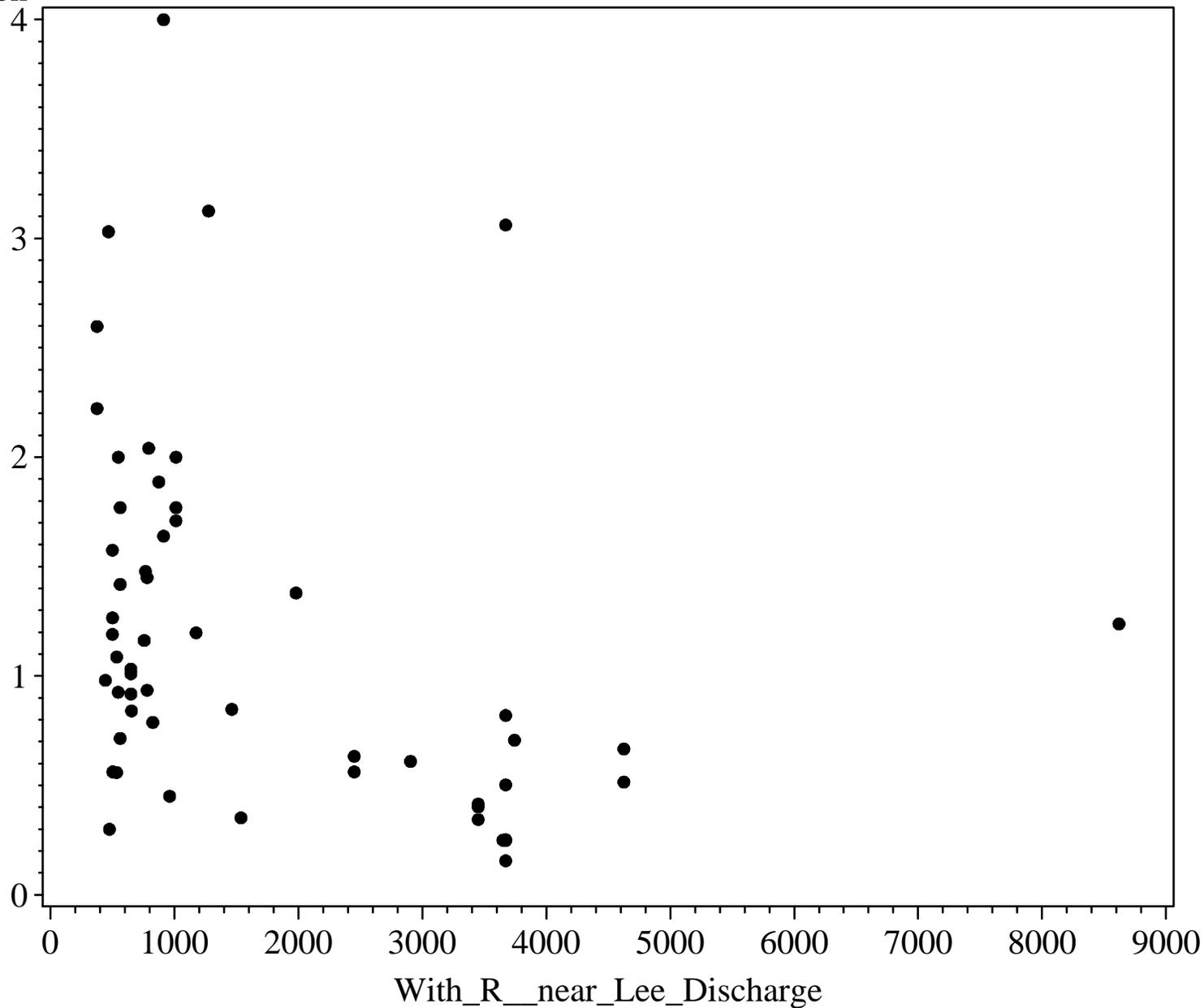
order=Hoplone

Percent Composition



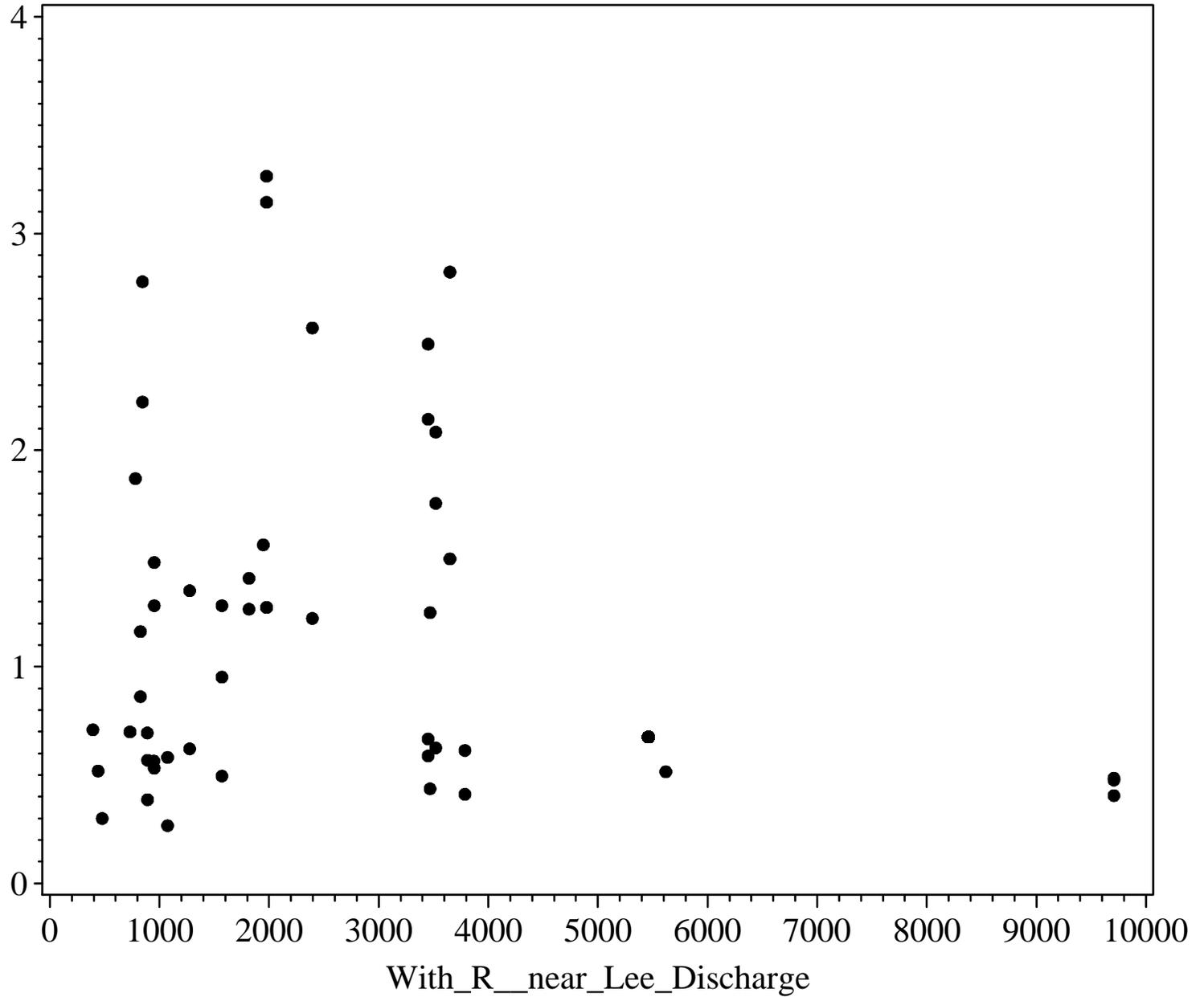
Percent Composition of Taxonomic Order vs. Estimated Withlacoochee Flow (at Lee)
order=Hydroid

Percent Composition



Percent Composition of Taxonomic Order vs. Estimated Withlacoochee Flow (at Lee)
order=Megalop

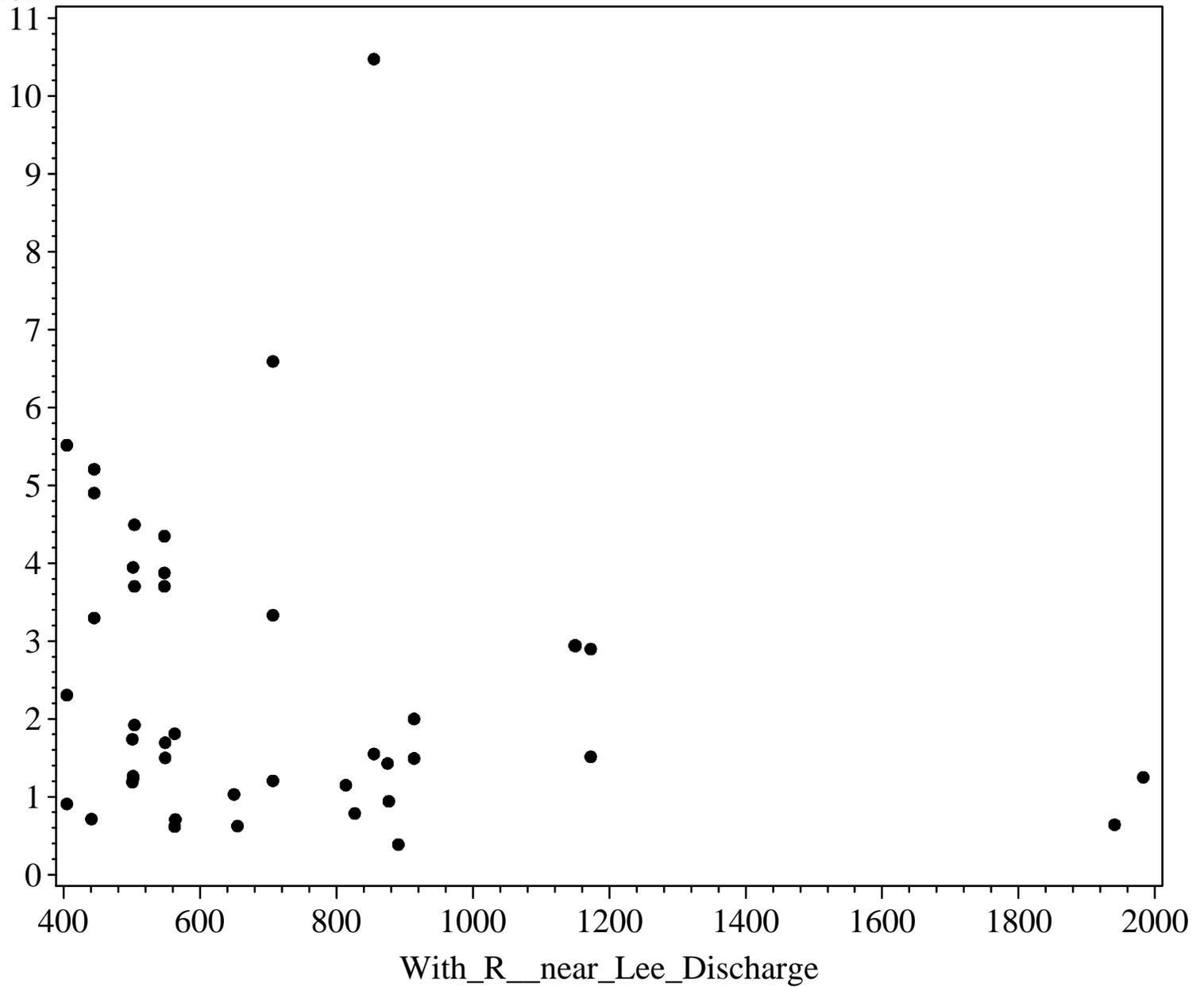
Percent Composition



Percent Composition of Taxonomic Order vs. Estimated Withlacoochee Flow (at Lee)

order=Neotaen

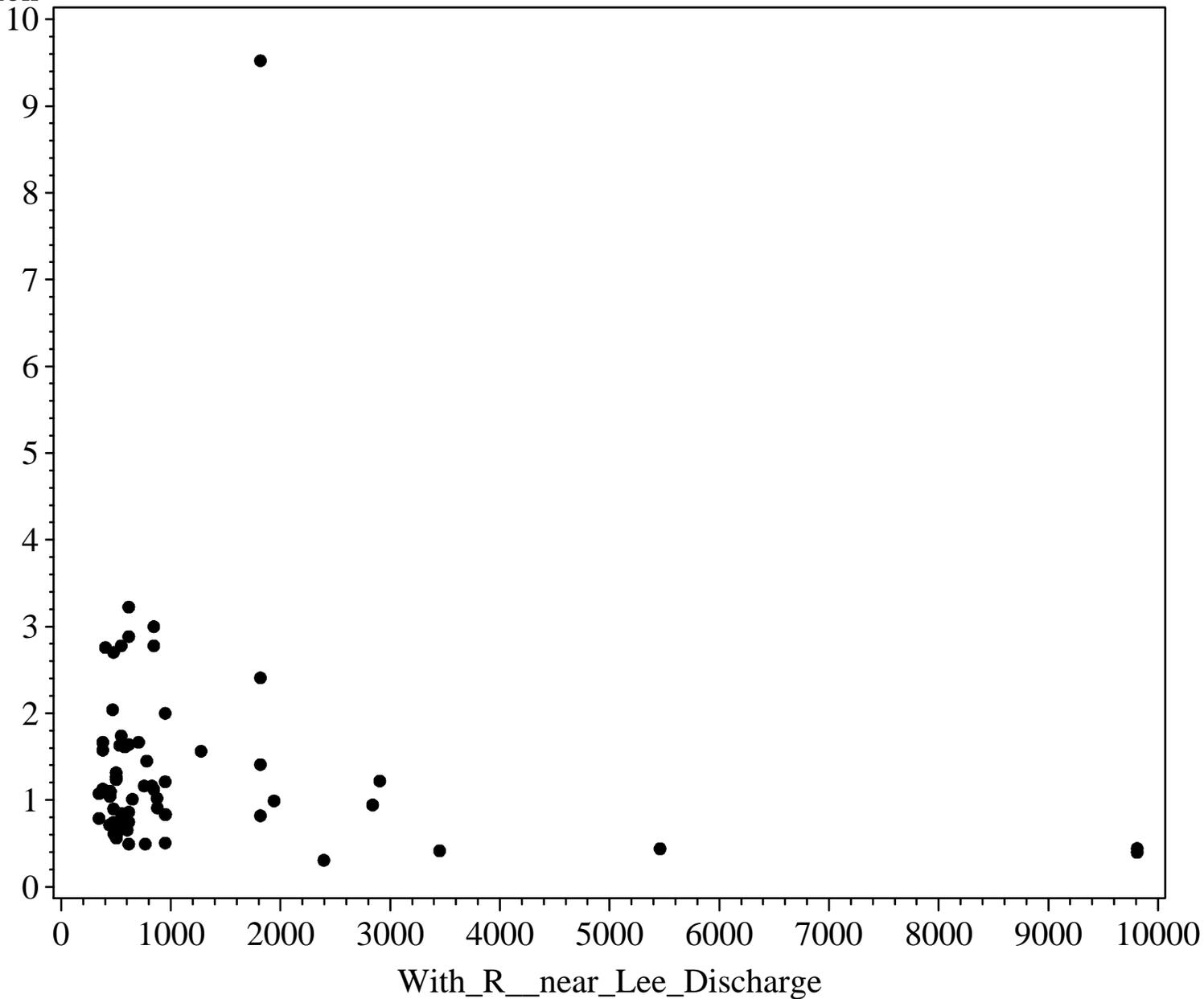
Percent Composition



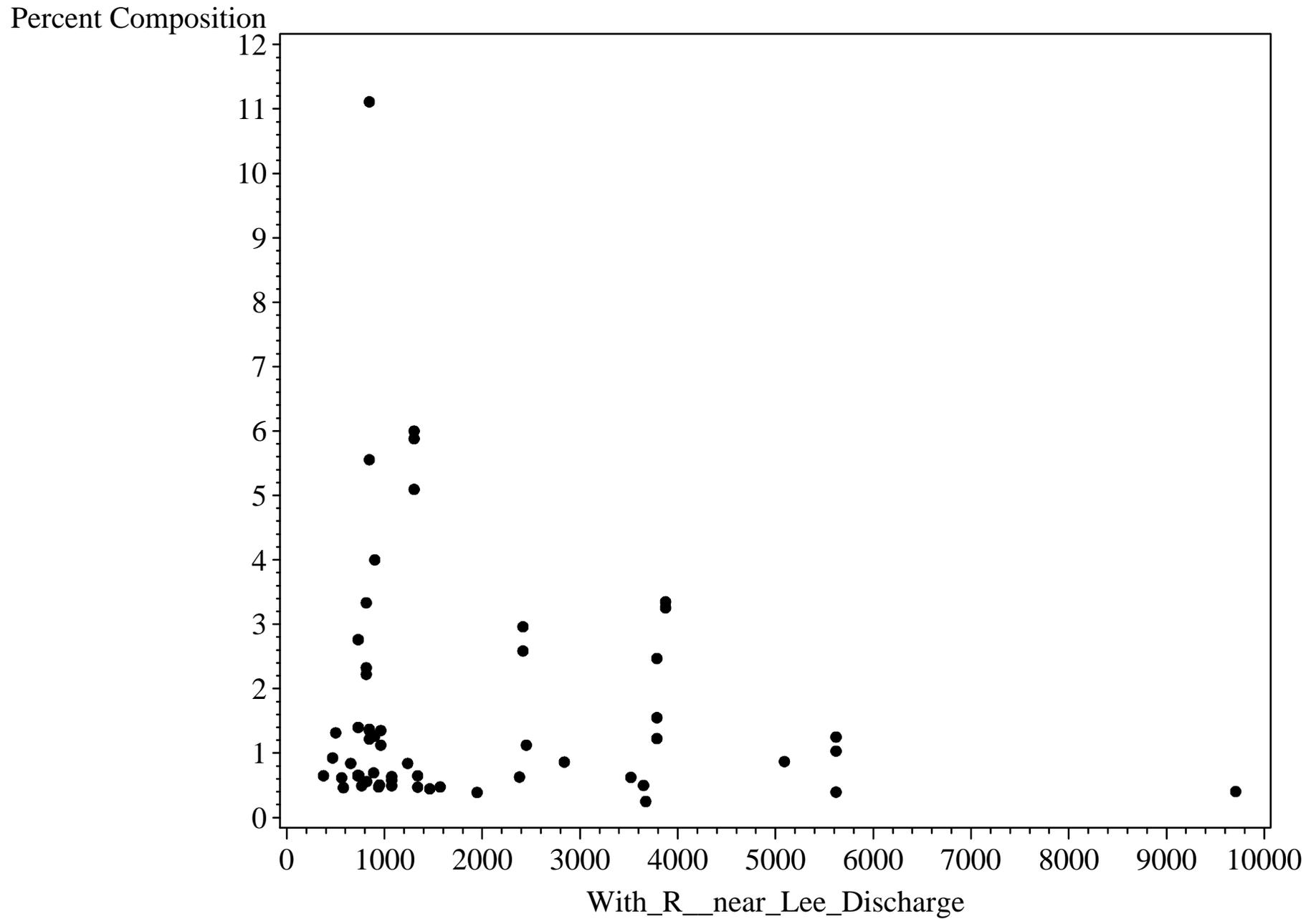
Percent Composition of Taxonomic Order vs. Estimated Withlacoochee Flow (at Lee)

order=Odonata

Percent Composition



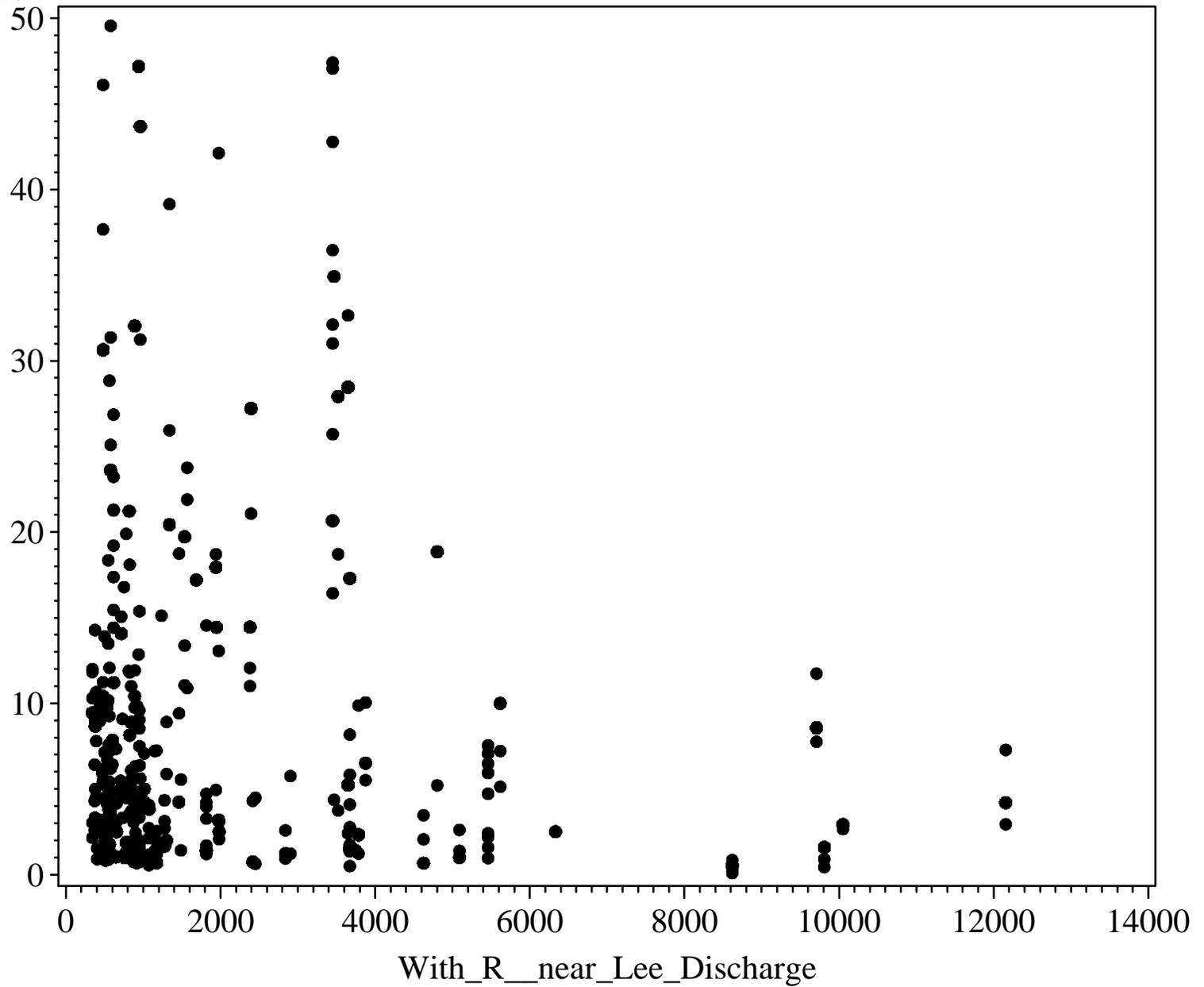
Percent Composition of Taxonomic Order vs. Estimated Withlacoochee Flow (at Lee)
order=Plecopt



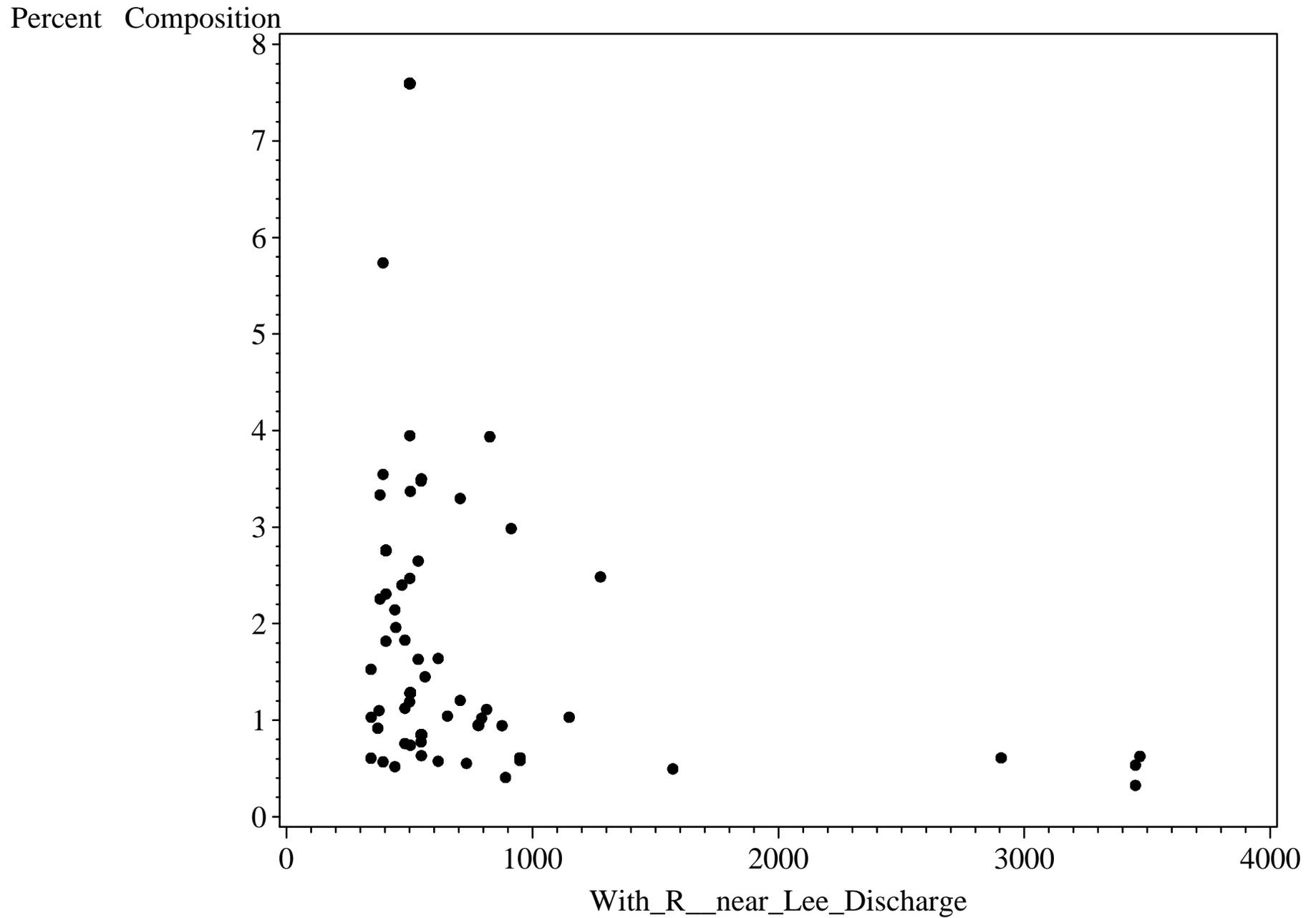
Percent Composition of Taxonomic Order vs. Estimated Withlacoochee Flow (at Lee)

order=Trichop

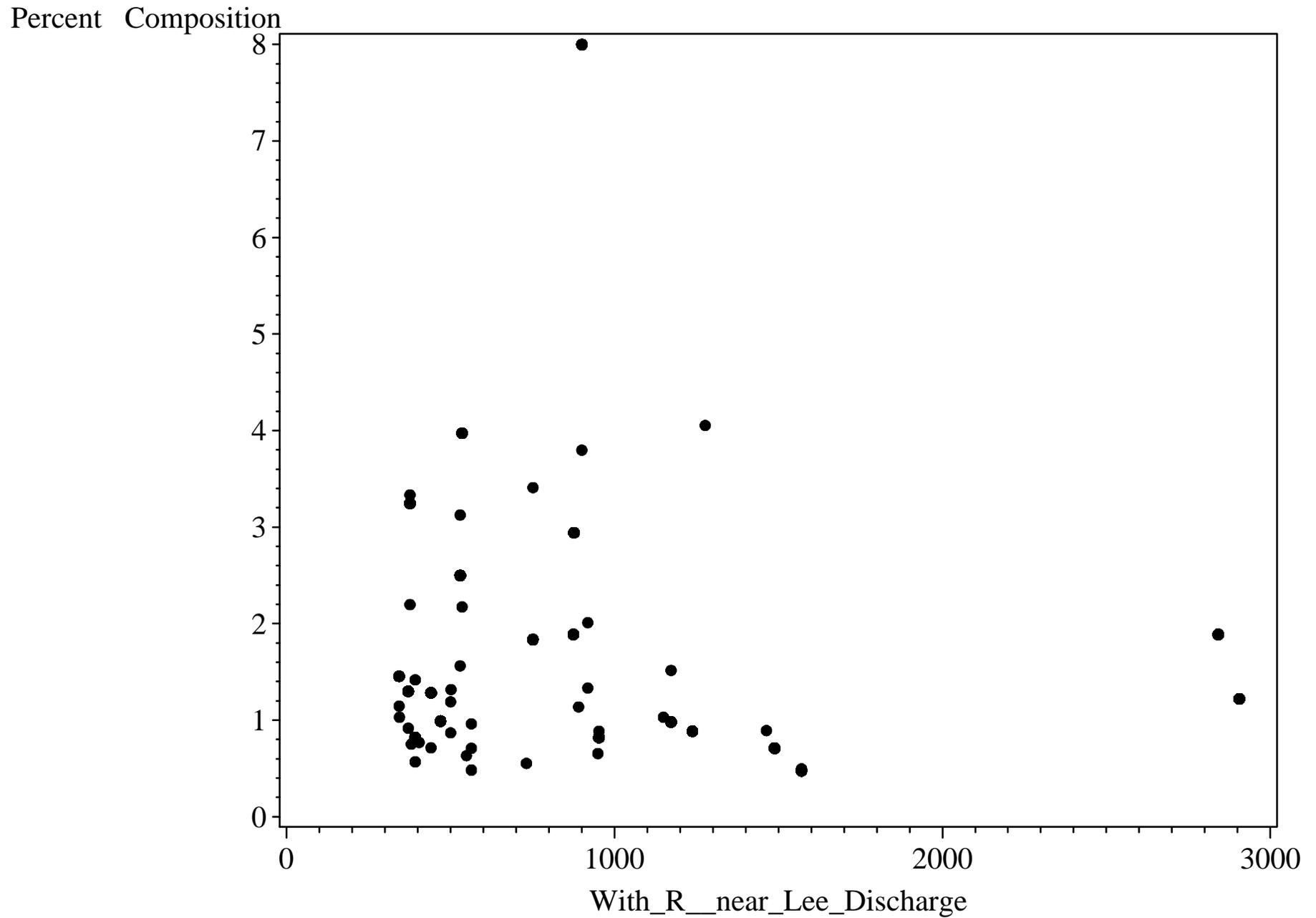
Percent Composition



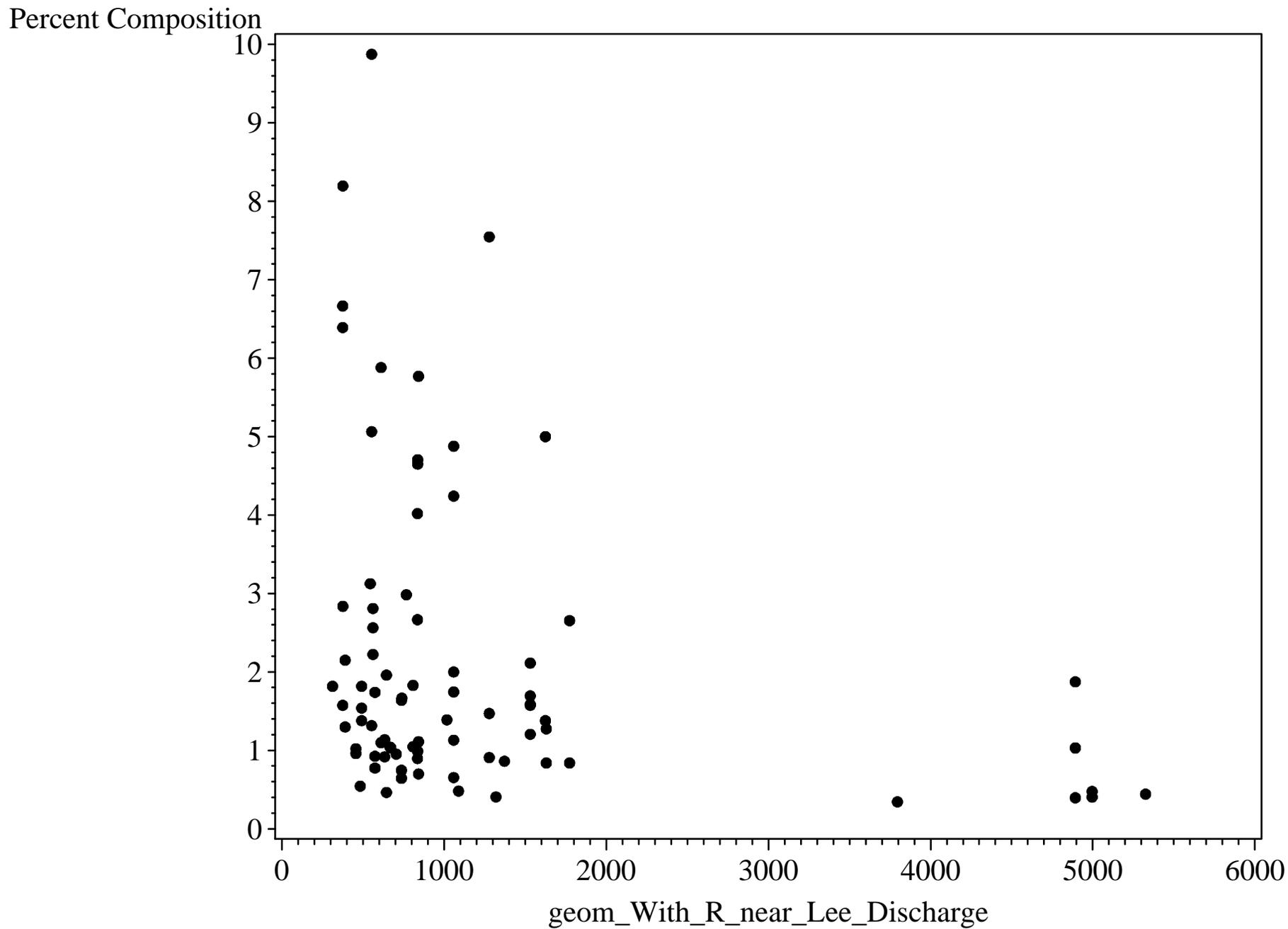
Percent Composition of Taxonomic Order vs. Estimated Withlacoochee Flow (at Lee)
order=Triclad



Percent Composition of Taxonomic Order vs. Estimated Withlacoochee Flow (at Lee)
order=Trombid

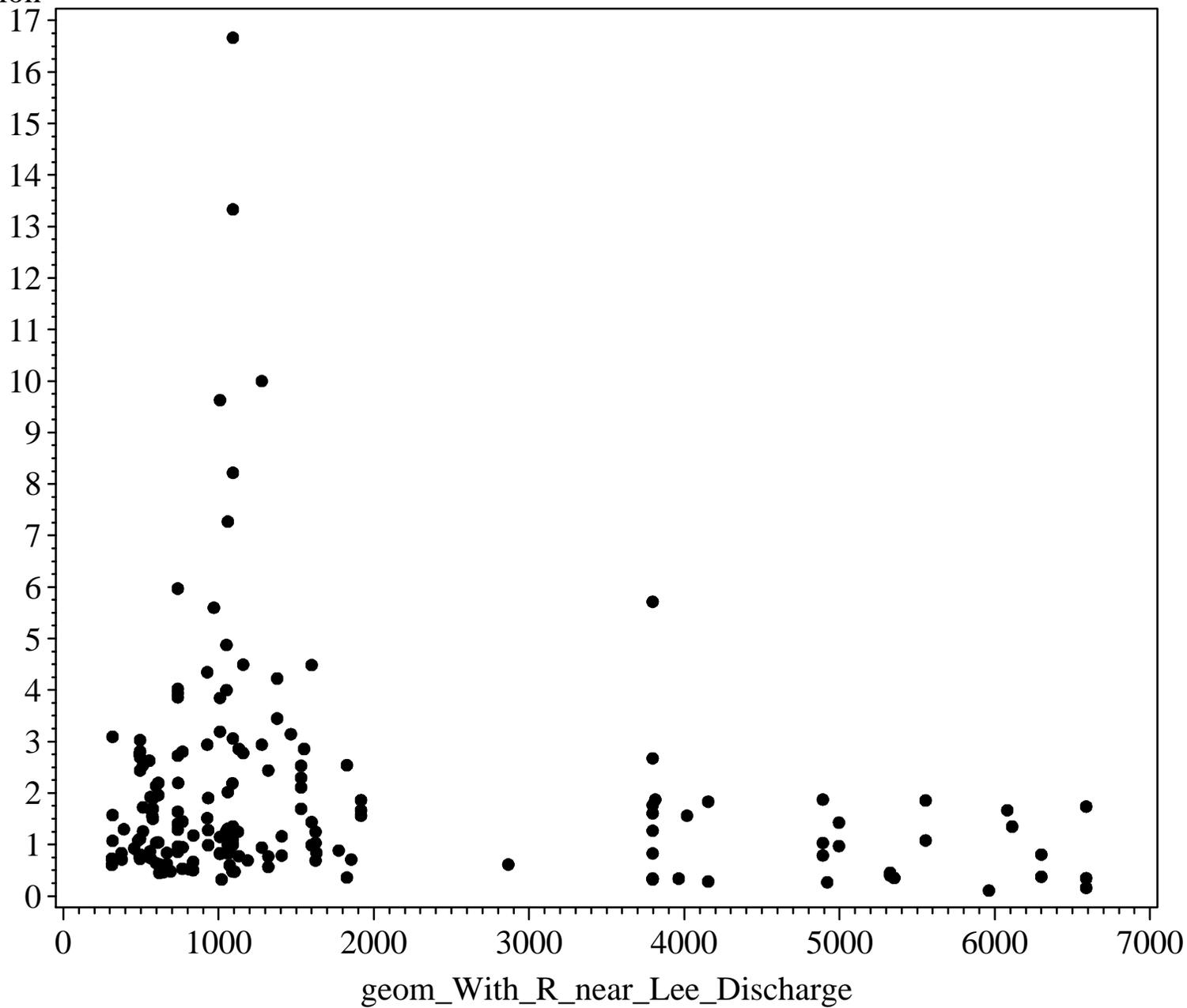


Percent Composition of Taxonomic Order vs. 30 Day Geometric Mean Withlacoochee Flow (at Lee)
order=Amphipo



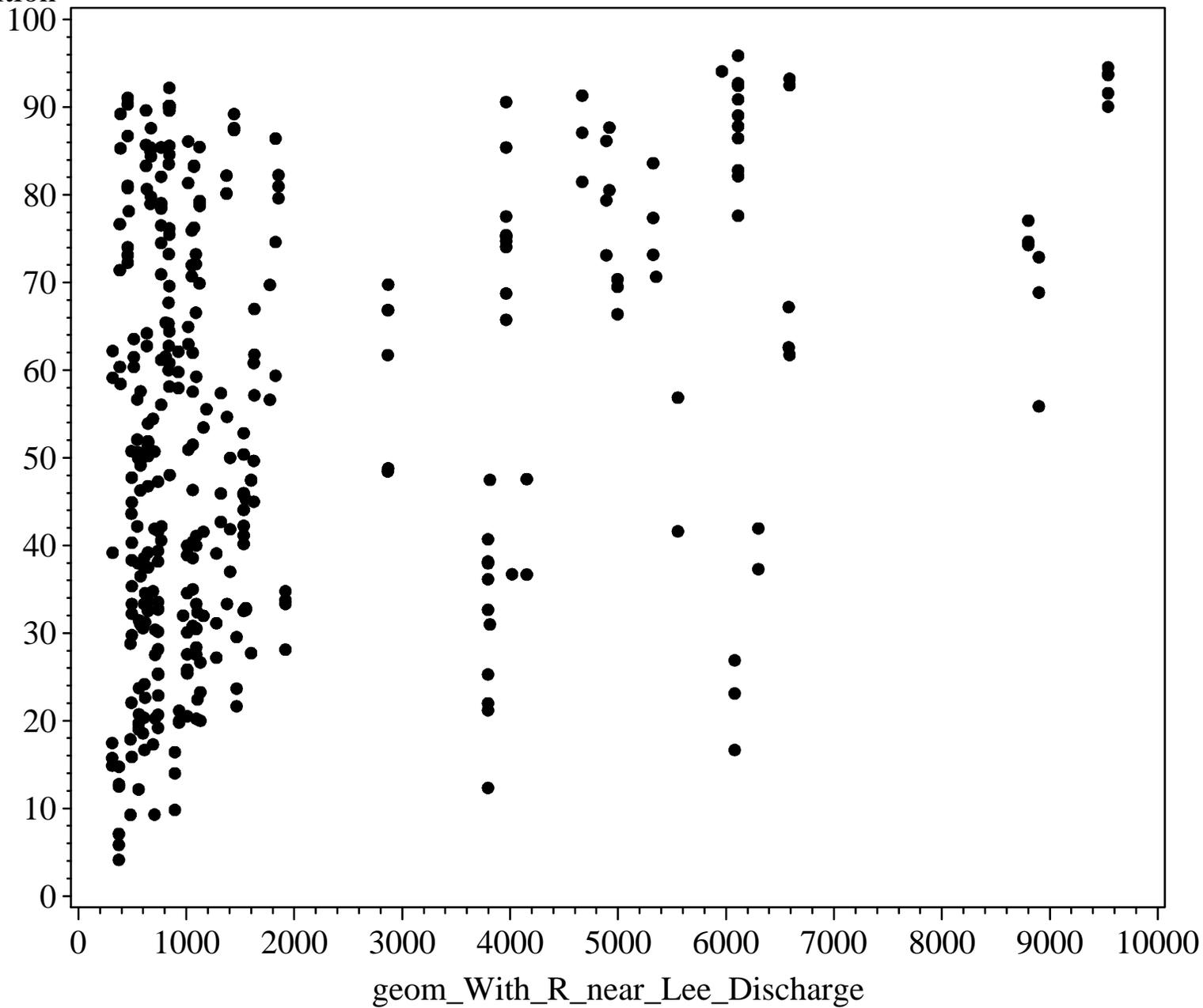
Percent Composition of Taxonomic Order vs. 30 Day Geometric Mean Withlacoochee Flow (at Lee)
order=Coleopt

Percent Composition



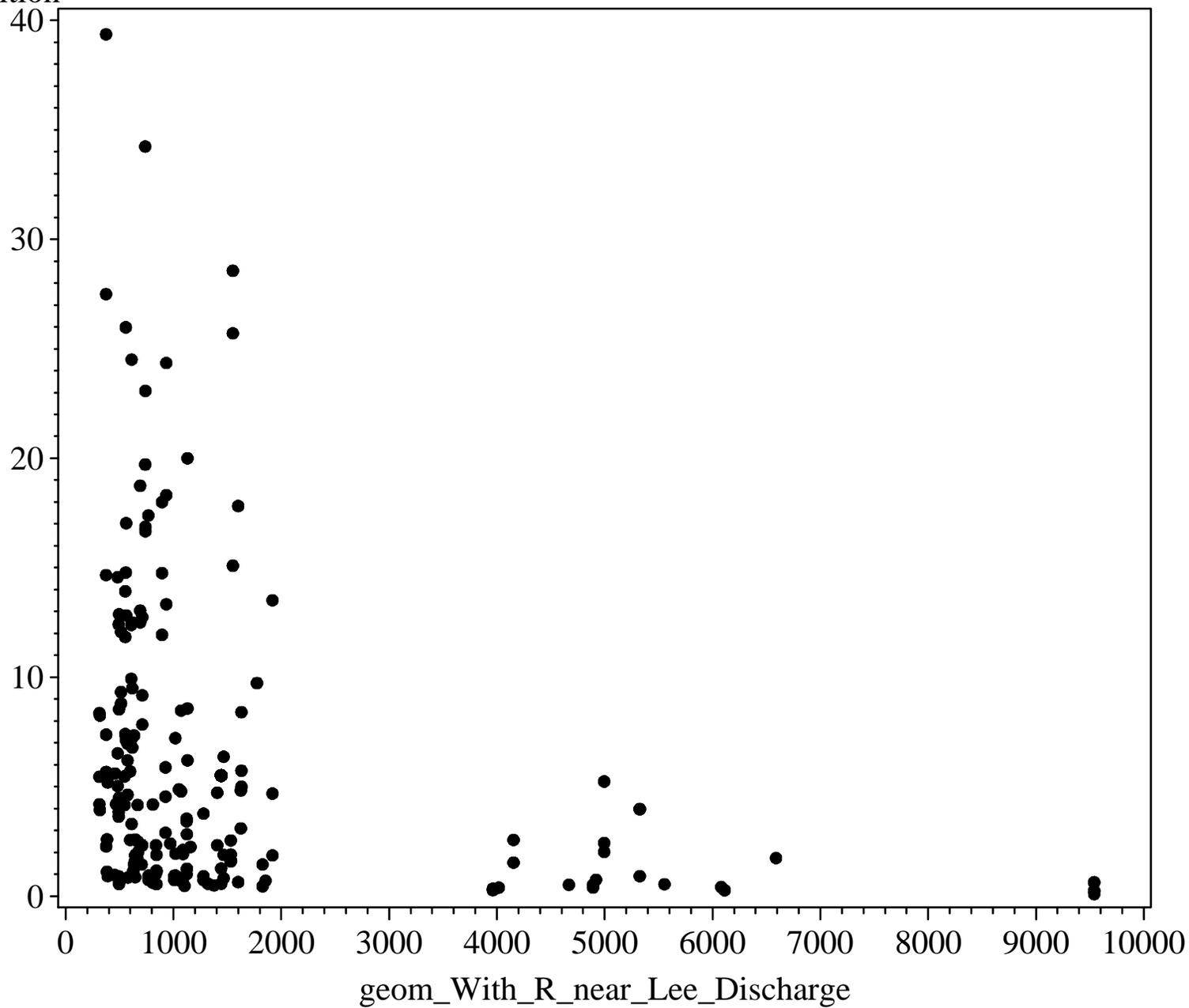
Percent Composition of Taxonomic Order vs. 30 Day Geometric Mean Withlacoochee Flow (at Lee)
order=Diptera

Percent Composition



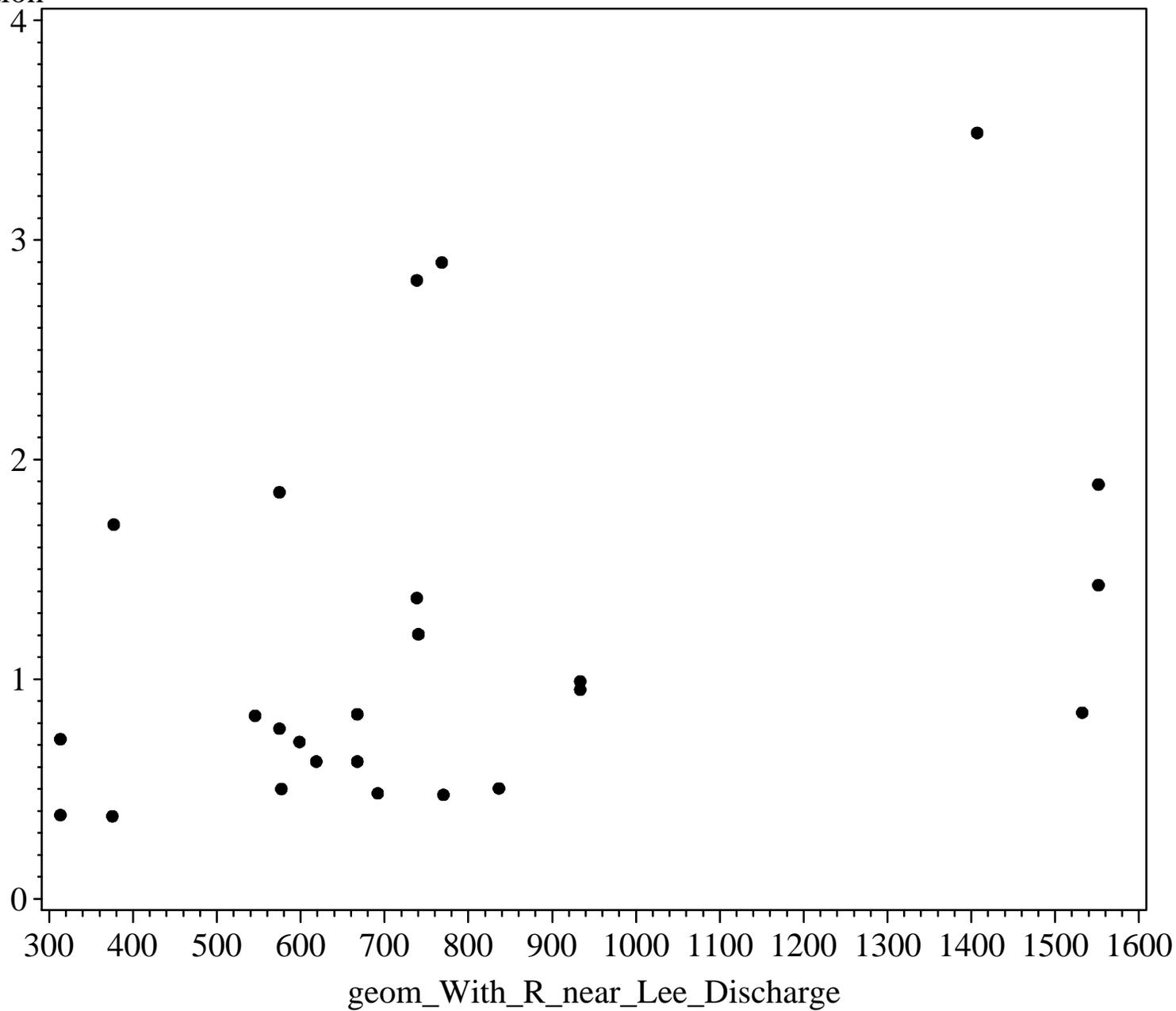
Percent Composition of Taxonomic Order vs. 30 Day Geometric Mean Withlacoochee Flow (at Lee)
order=Haplota

Percent Composition



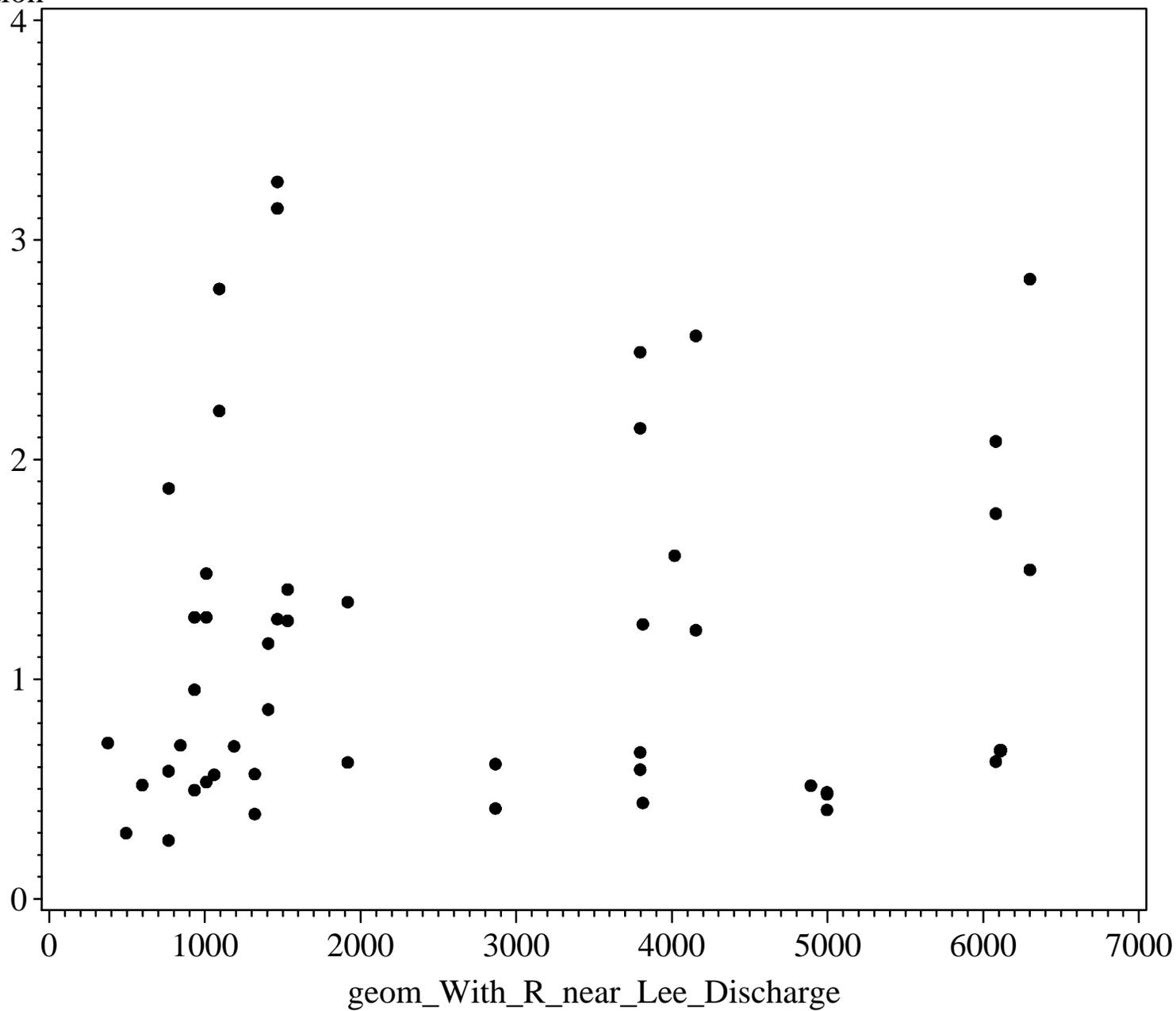
Percent Composition of Taxonomic Order vs. 30 Day Geometric Mean Withlacoochee Flow (at Lee)
order=Hoplone

Percent Composition



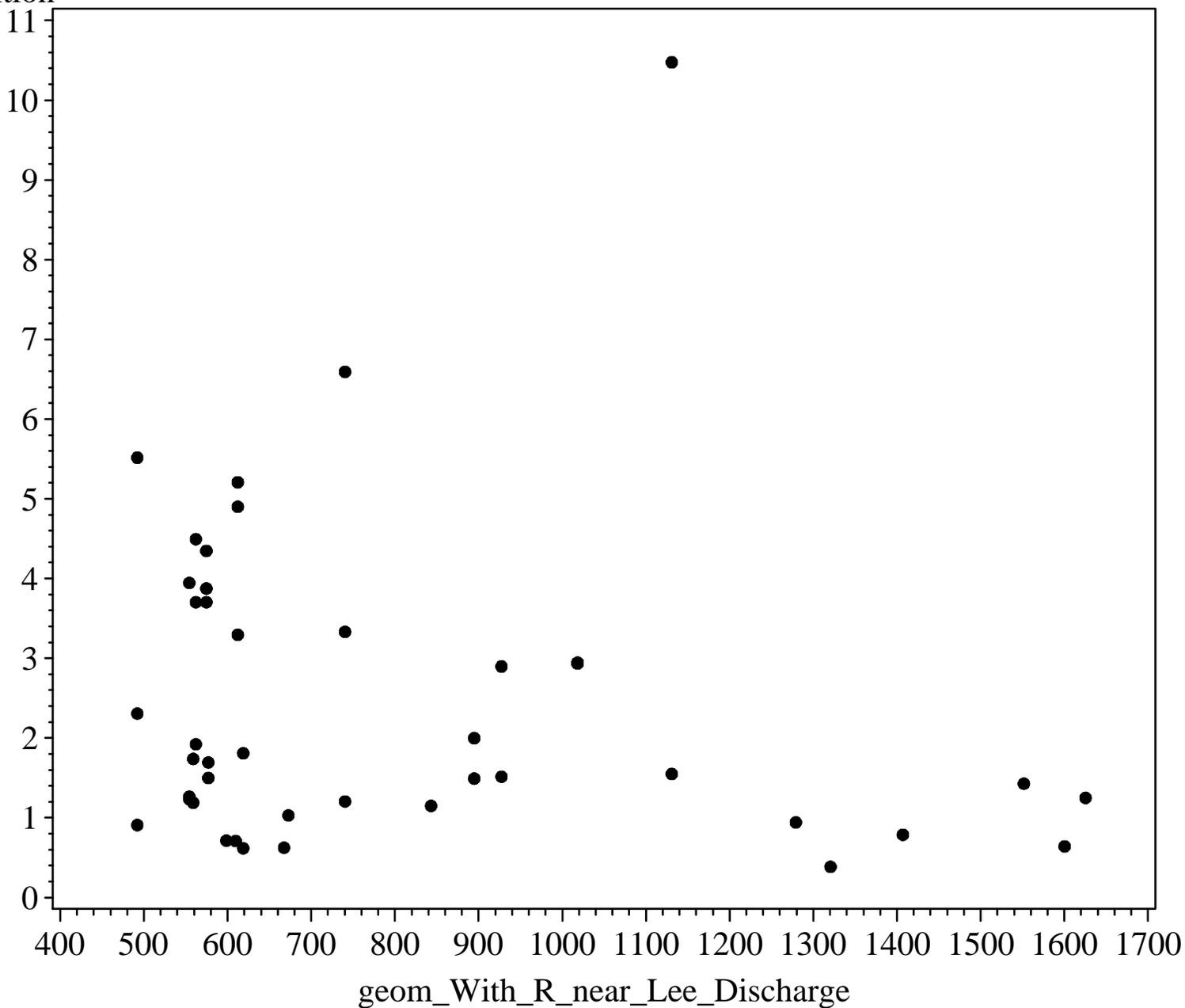
Percent Composition of Taxonomic Order vs. 30 Day Geometric Mean Withlacoochee Flow (at Lee)
order=Megalop

Percent Composition



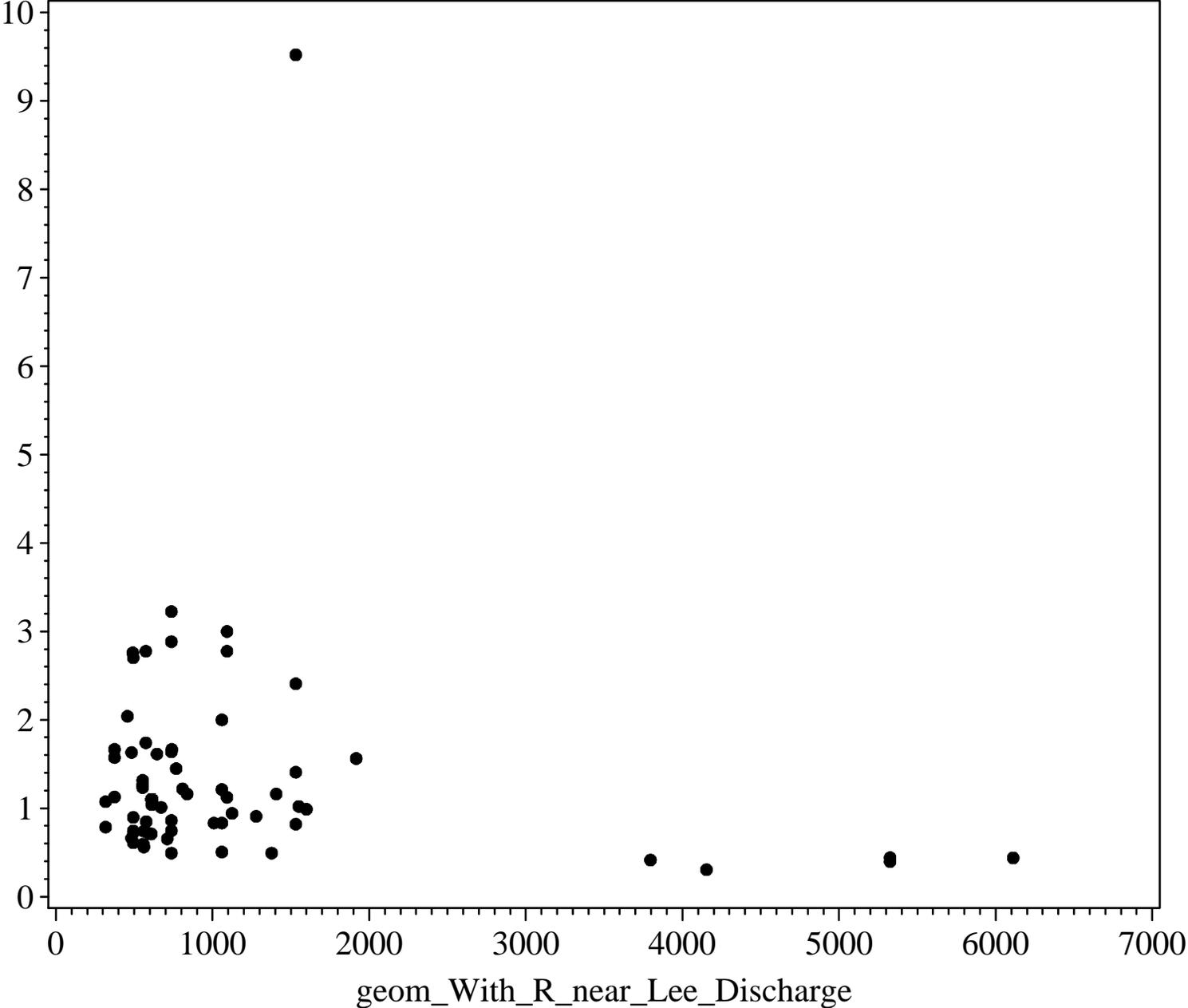
Percent Composition of Taxonomic Order vs. 30 Day Geometric Mean Withlacoochee Flow (at Lee)
order=Neotaen

Percent Composition



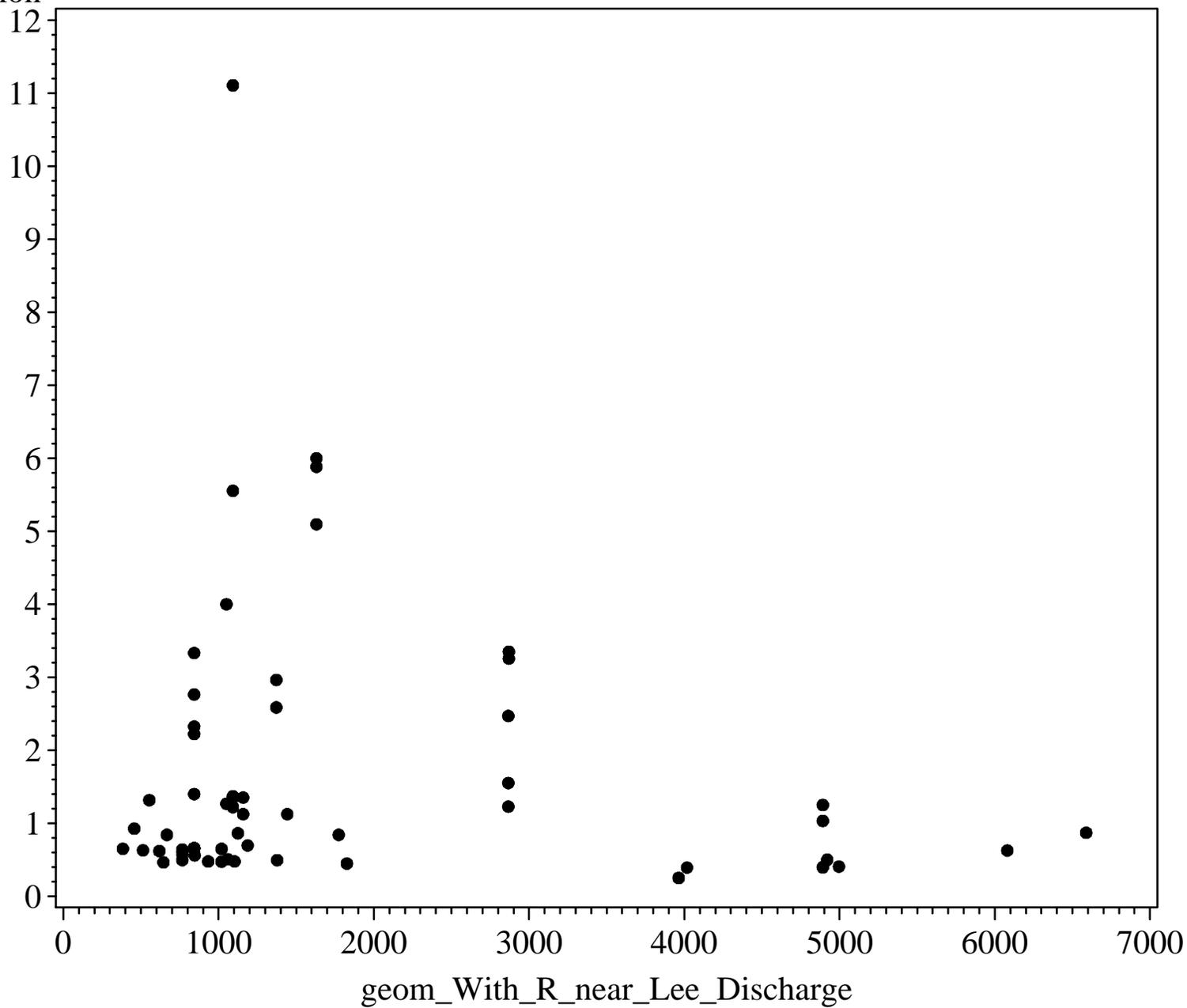
Percent Composition of Taxonomic Order vs. 30 Day Geometric Mean Withlacoochee Flow (at Lee)
order=Odonata

Percent Composition



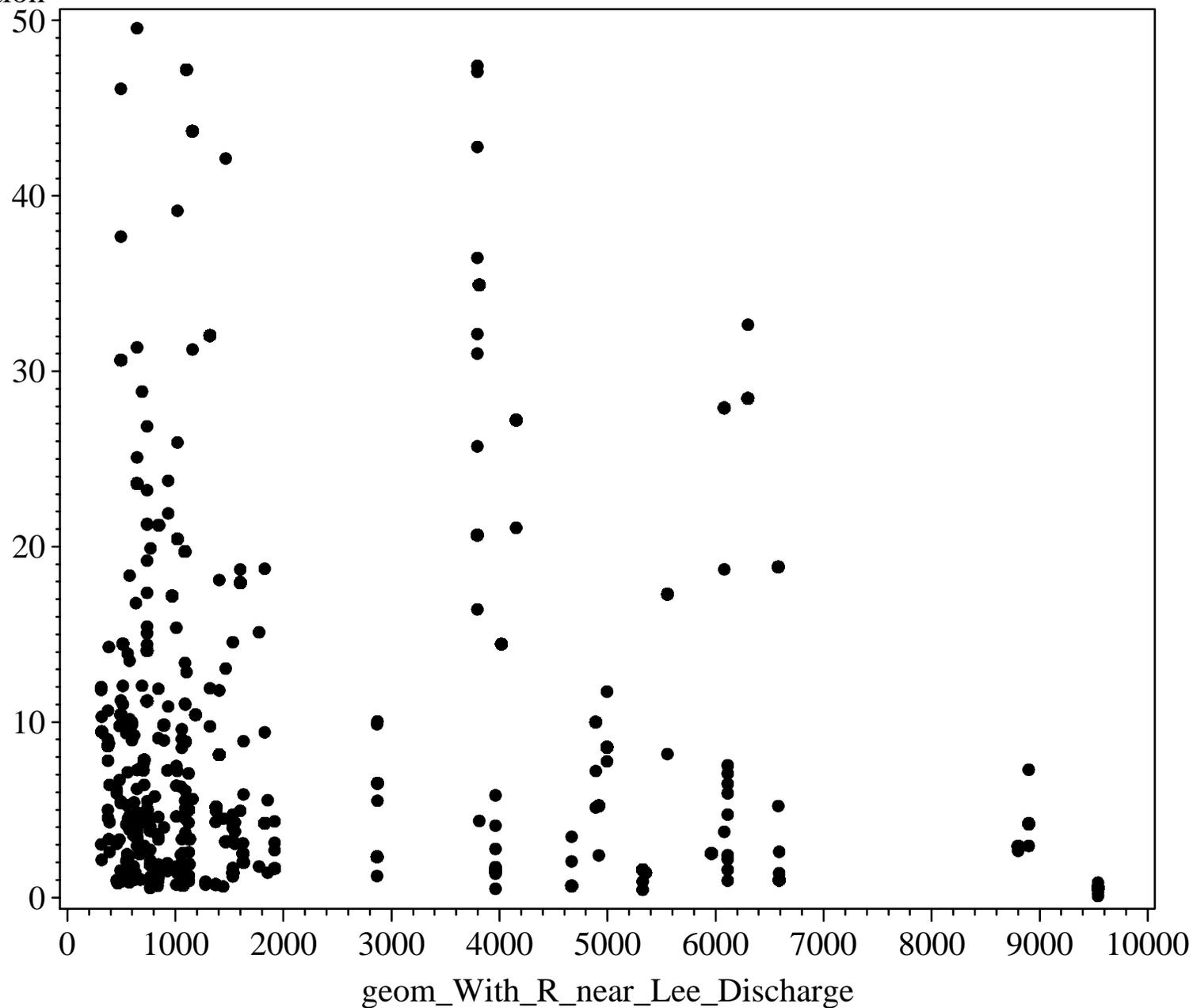
Percent Composition of Taxonomic Order vs. 30 Day Geometric Mean Withlacoochee Flow (at Lee)
order=Plecopt

Percent Composition



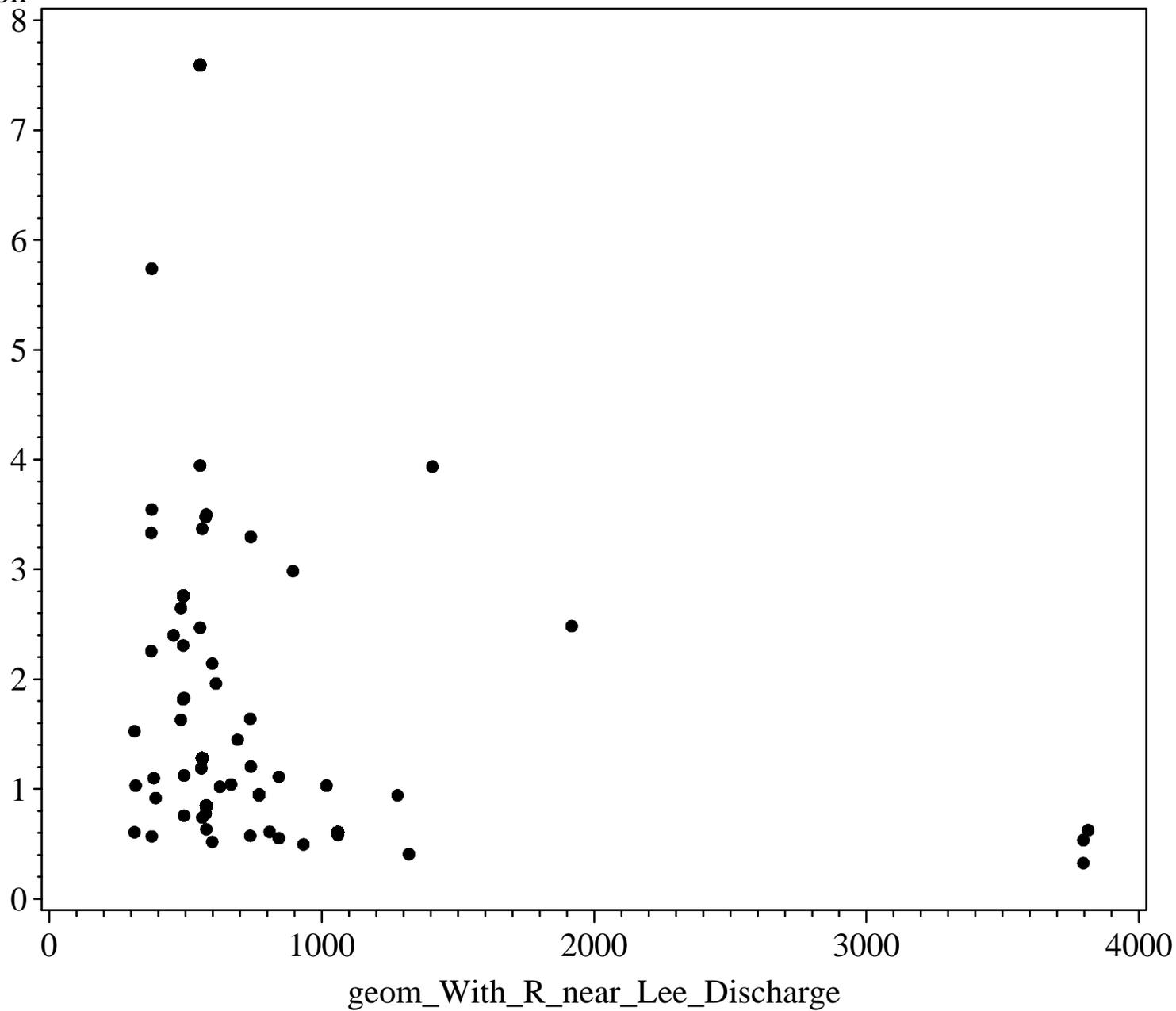
Percent Composition of Taxonomic Order vs. 30 Day Geometric Mean Withlacoochee Flow (at Lee)
order=Trichop

Percent Composition



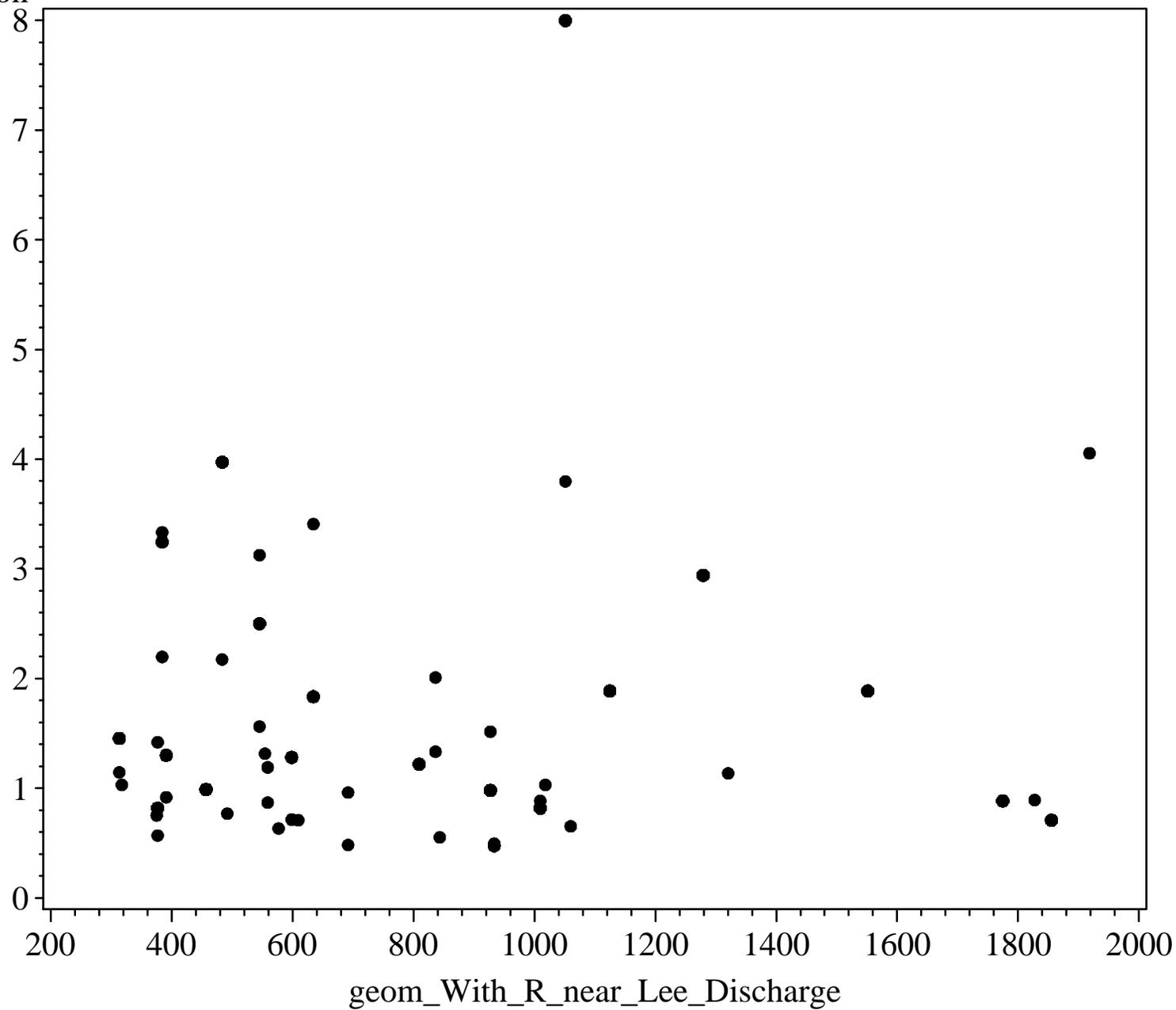
Percent Composition of Taxonomic Order vs. 30 Day Geometric Mean Withlacoochee Flow (at Lee)
order=Triclad

Percent Composition

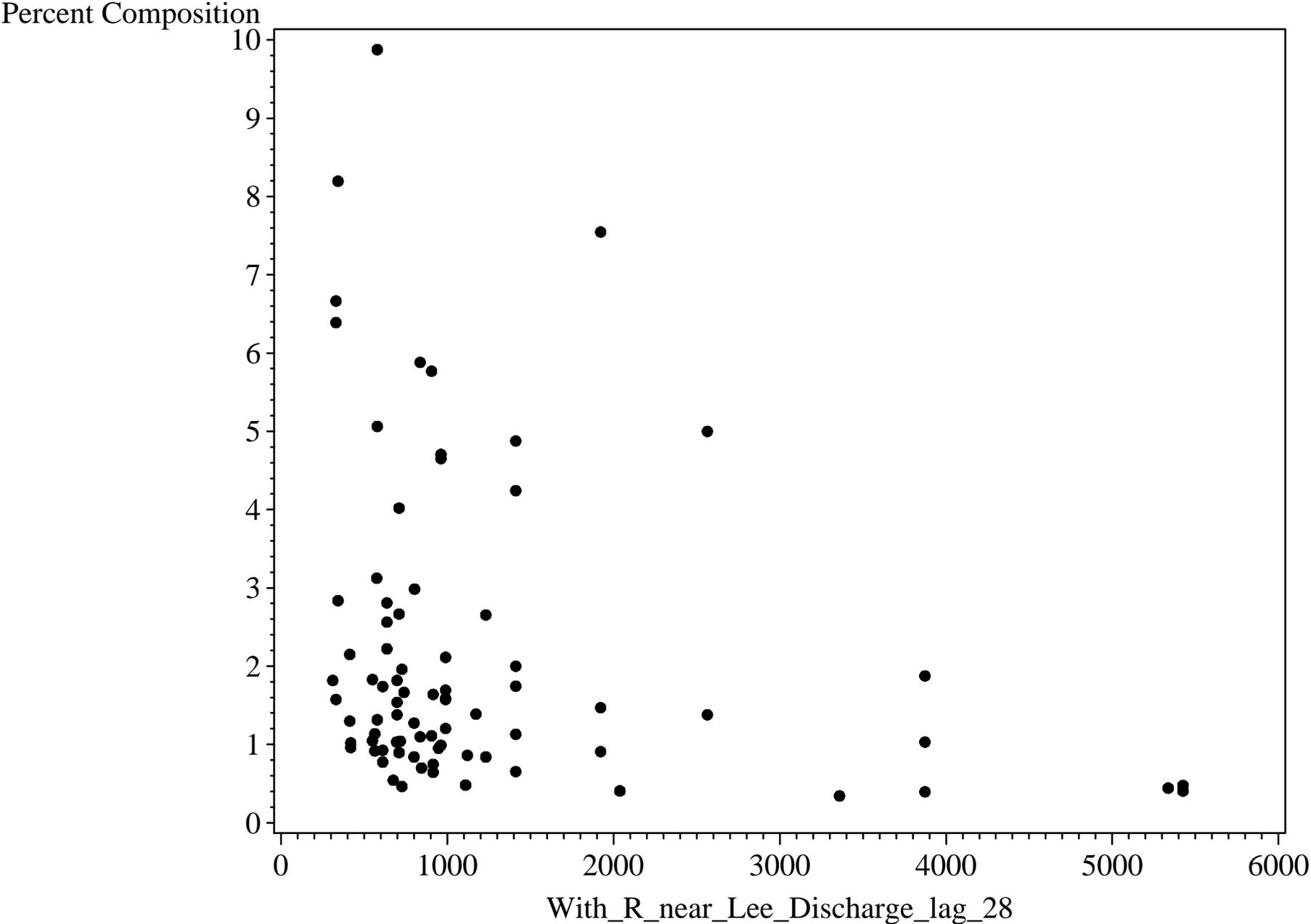


Percent Composition of Taxonomic Order vs. 30 Day Geometric Mean Withlacoochee Flow (at Lee)
order=Trombid

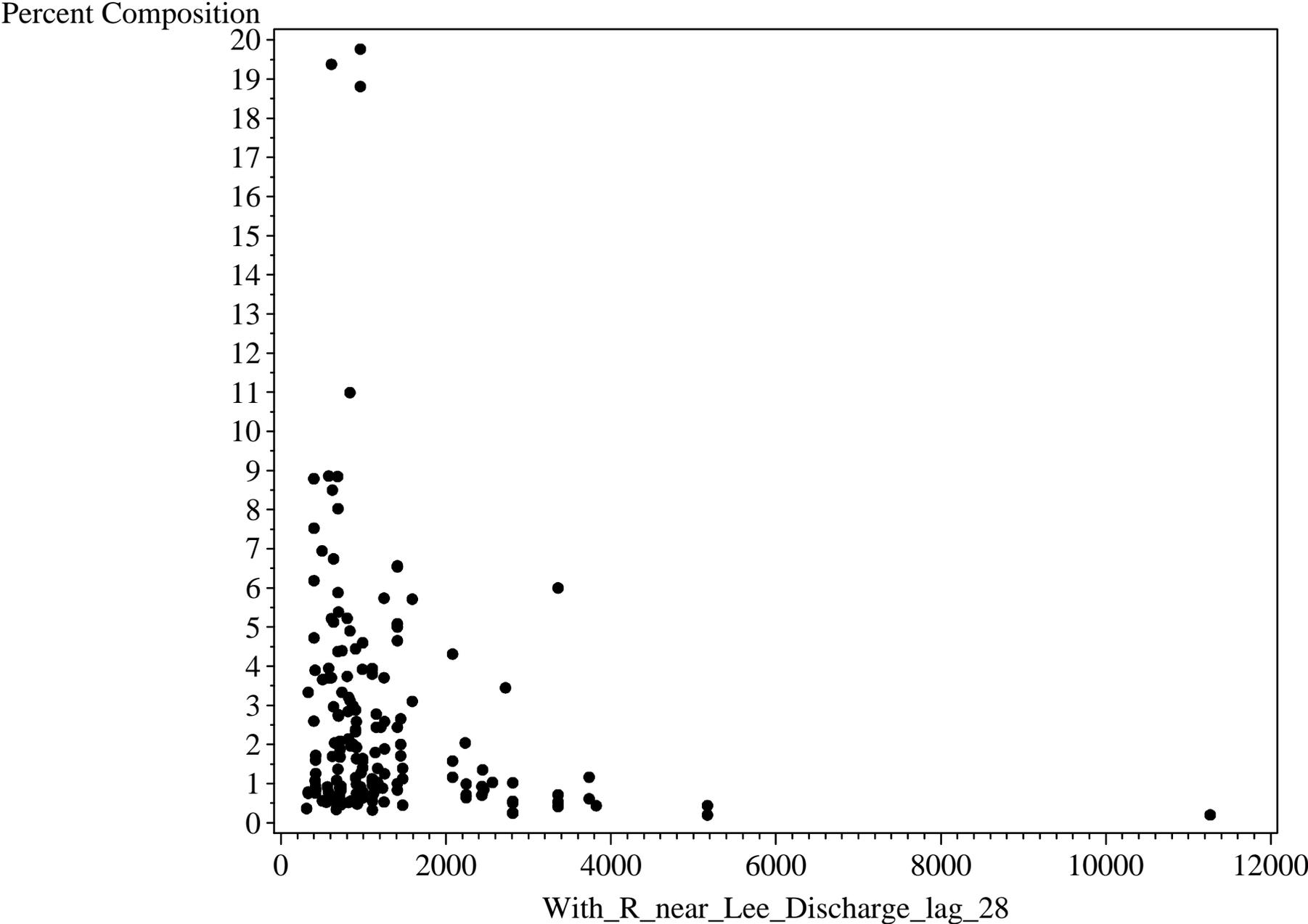
Percent Composition



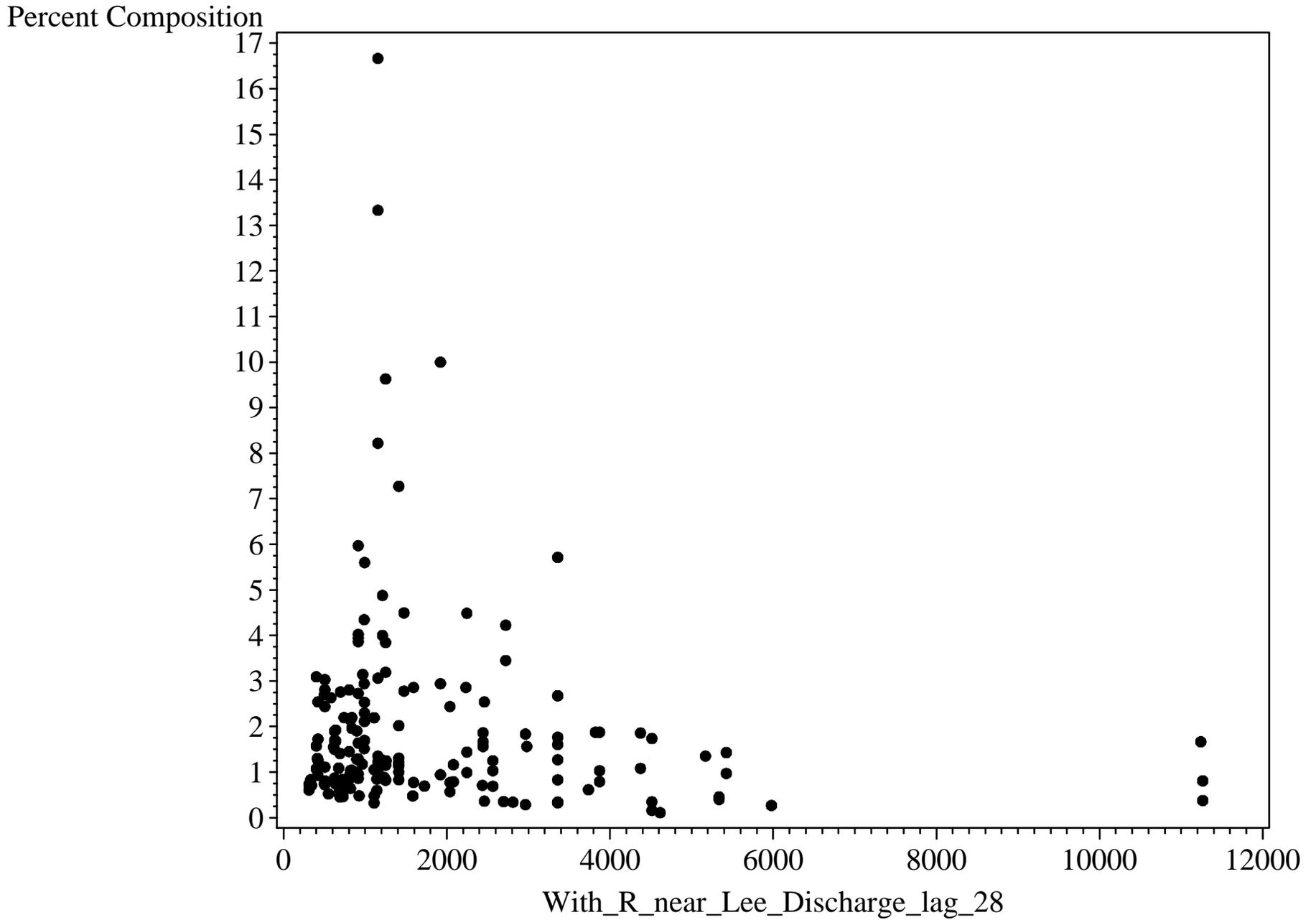
Percent Composition of Taxonomic Order vs. 28 Day Lag Withlacoochee Flow (at Lee)
order=Amphipo



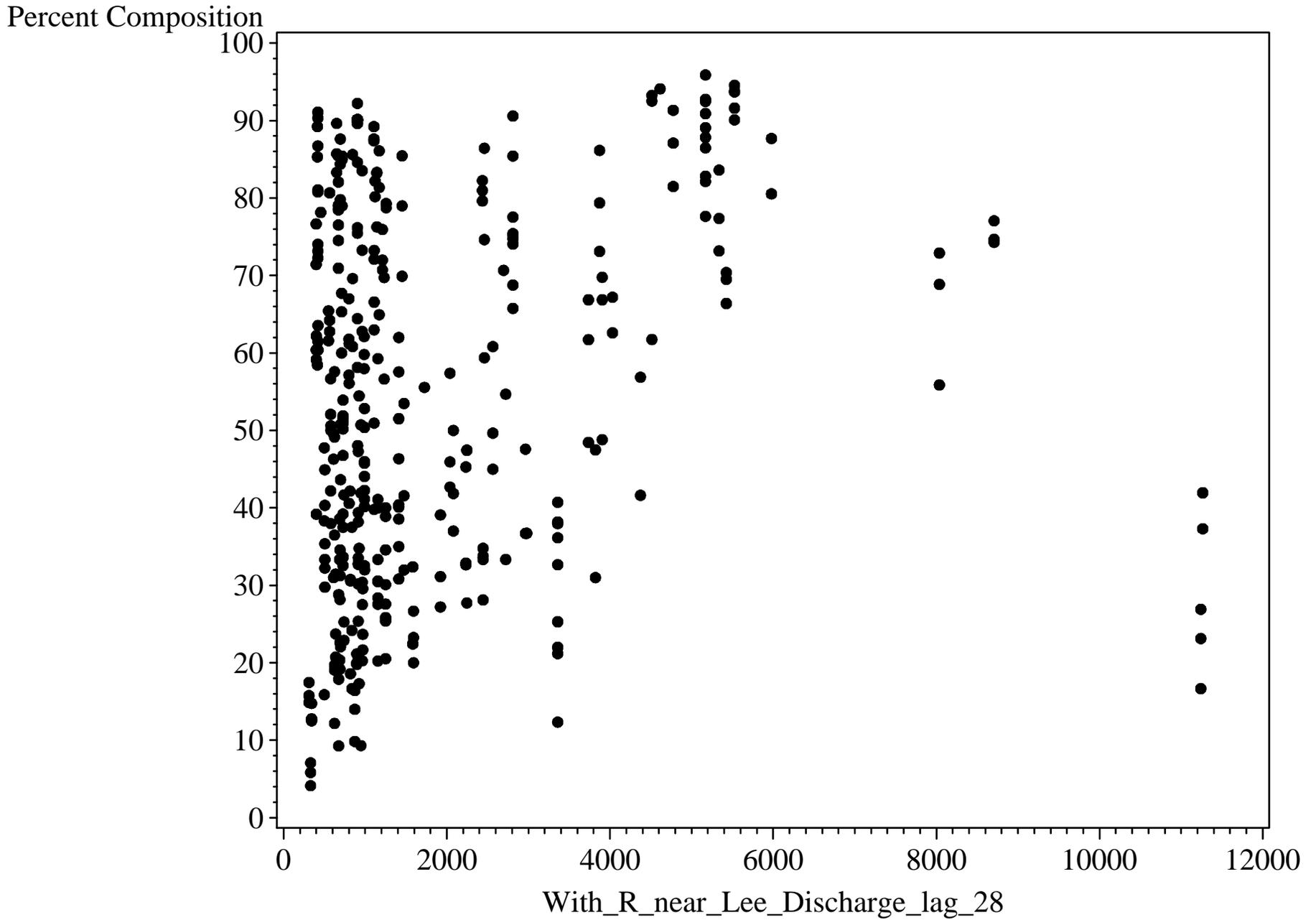
Percent Composition of Taxonomic Order vs. 28 Day Lag Withlacoochee Flow (at Lee)
order=Basomma



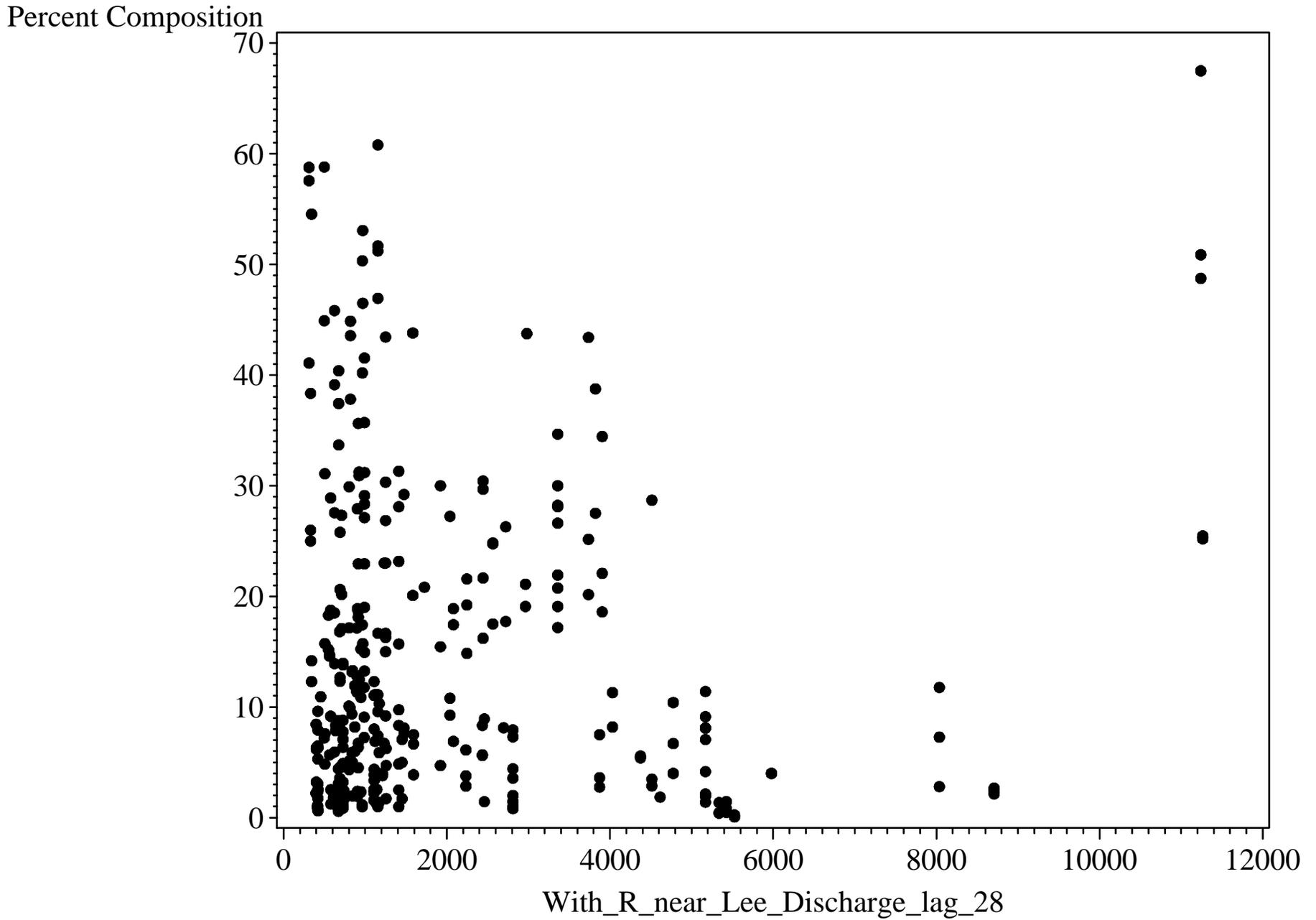
Percent Composition of Taxonomic Order vs. 28 Day Lag Withlacoochee Flow (at Lee)
order=Coleopt



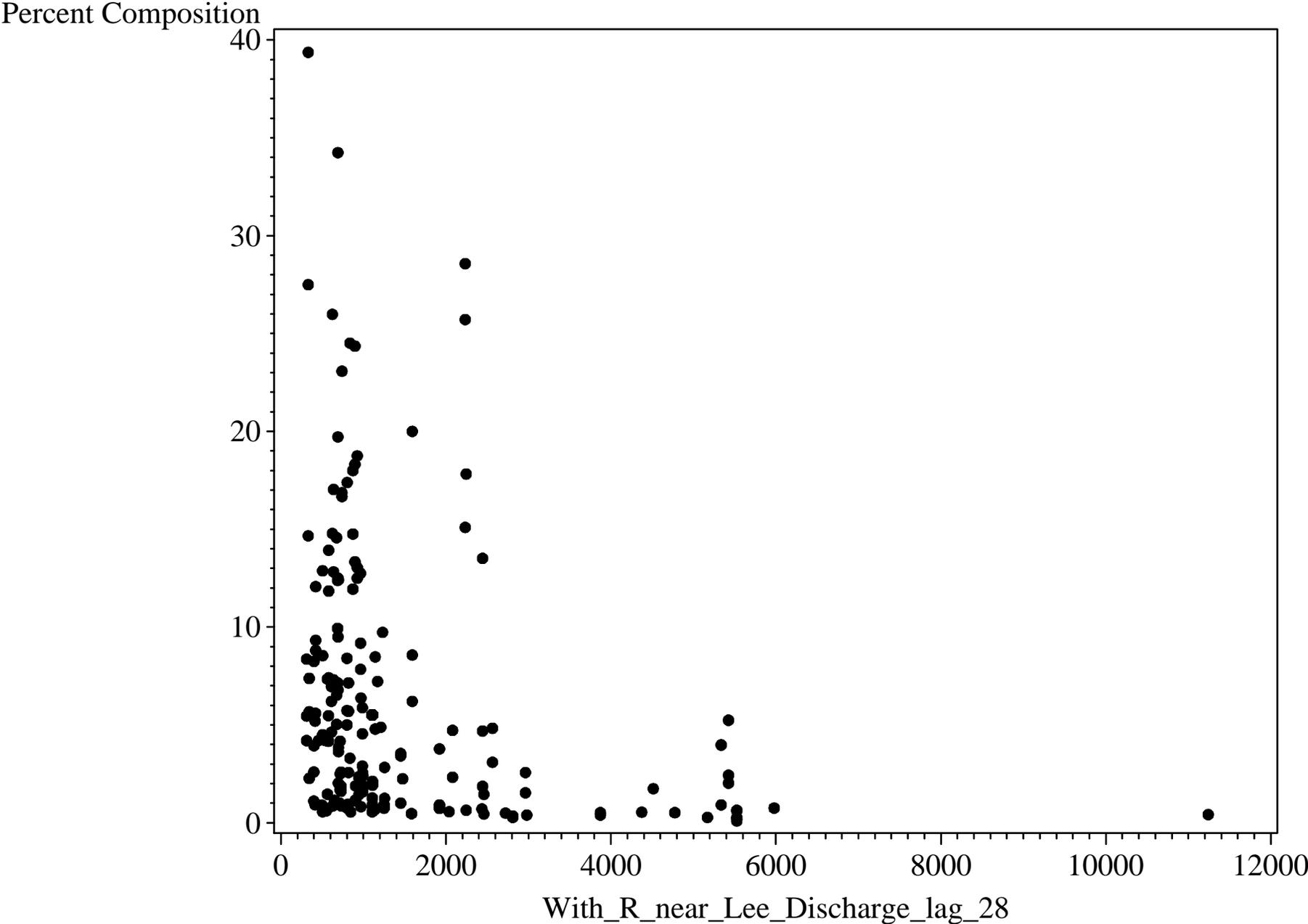
Percent Composition of Taxonomic Order vs. 28 Day Lag Withlacoochee Flow (at Lee)
order=Diptera



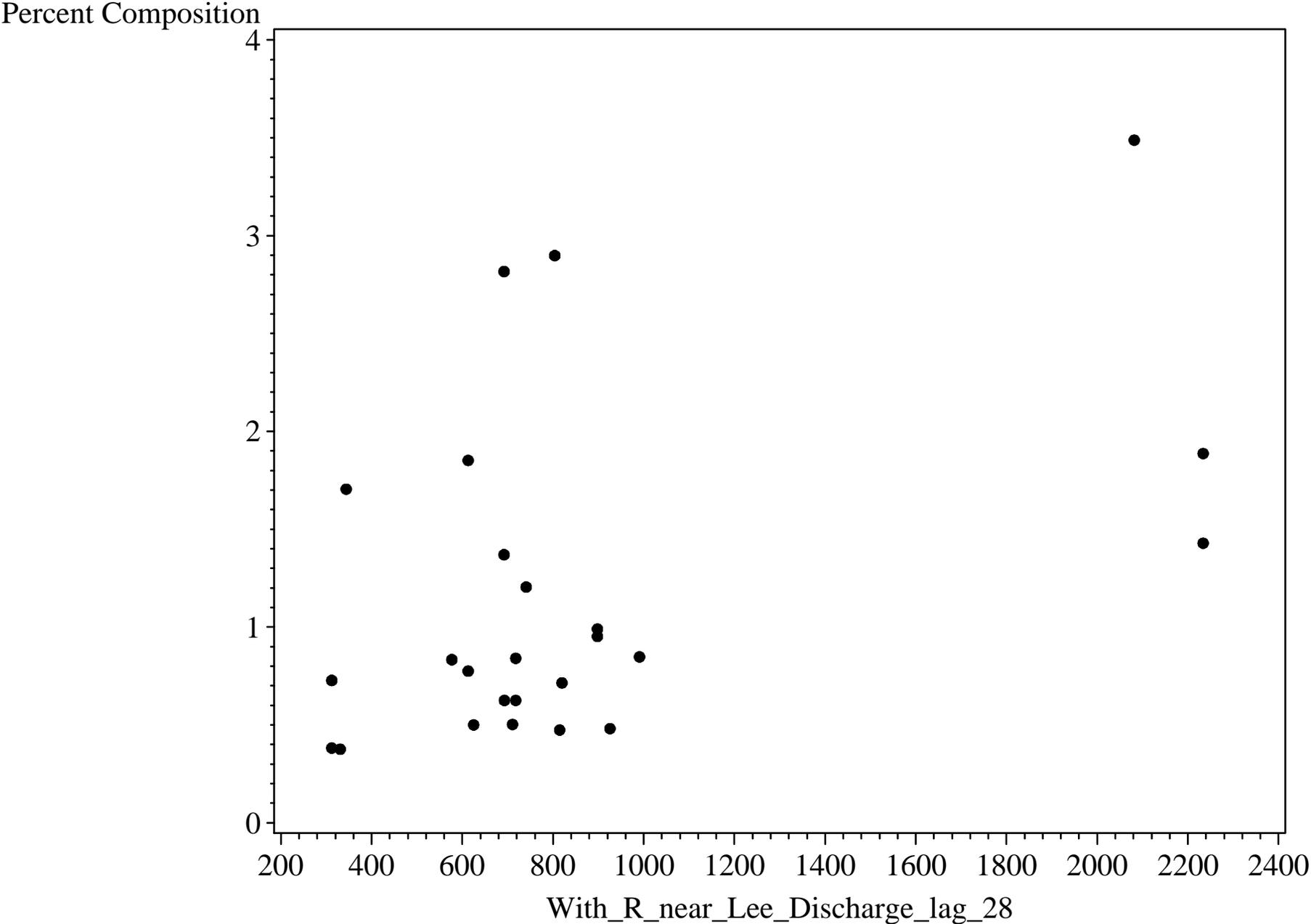
Percent Composition of Taxonomic Order vs. 28 Day Lag Withlacoochee Flow (at Lee)
order=Ephemer



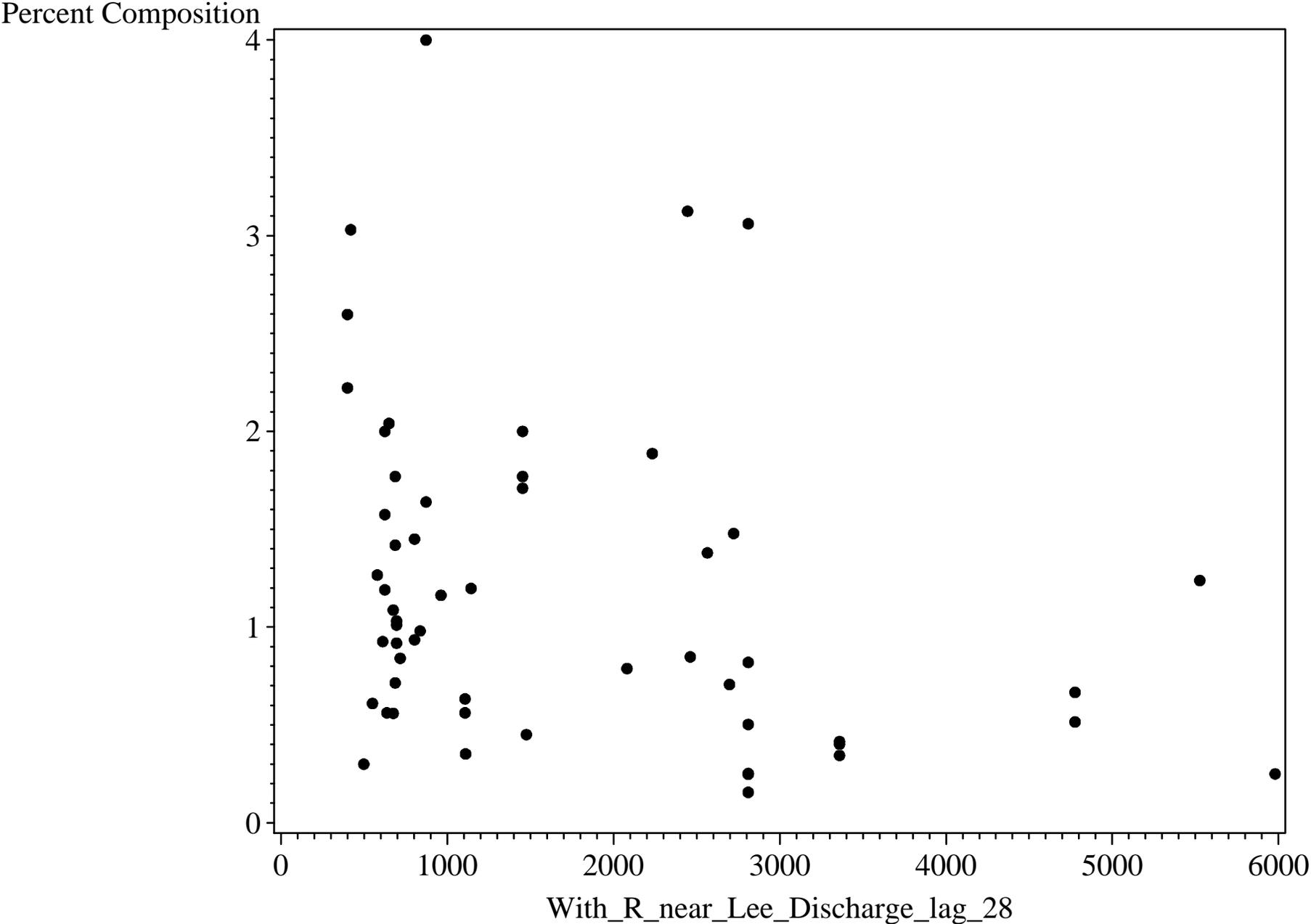
Percent Composition of Taxonomic Order vs. 28 Day Lag Withlacoochee Flow (at Lee)
order=Haplota



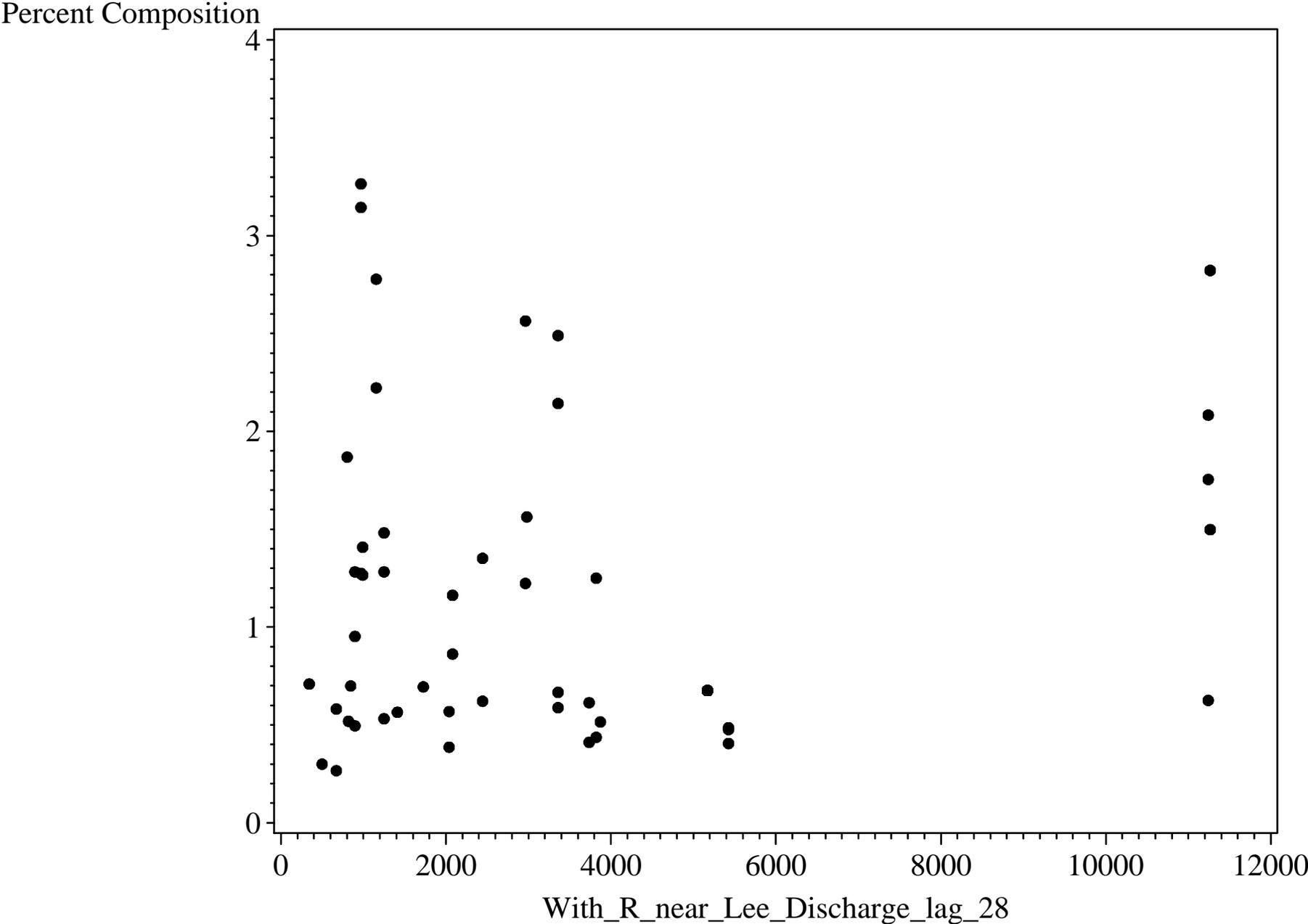
Percent Composition of Taxonomic Order vs. 28 Day Lag Withlacoochee Flow (at Lee)
order=Hoplone



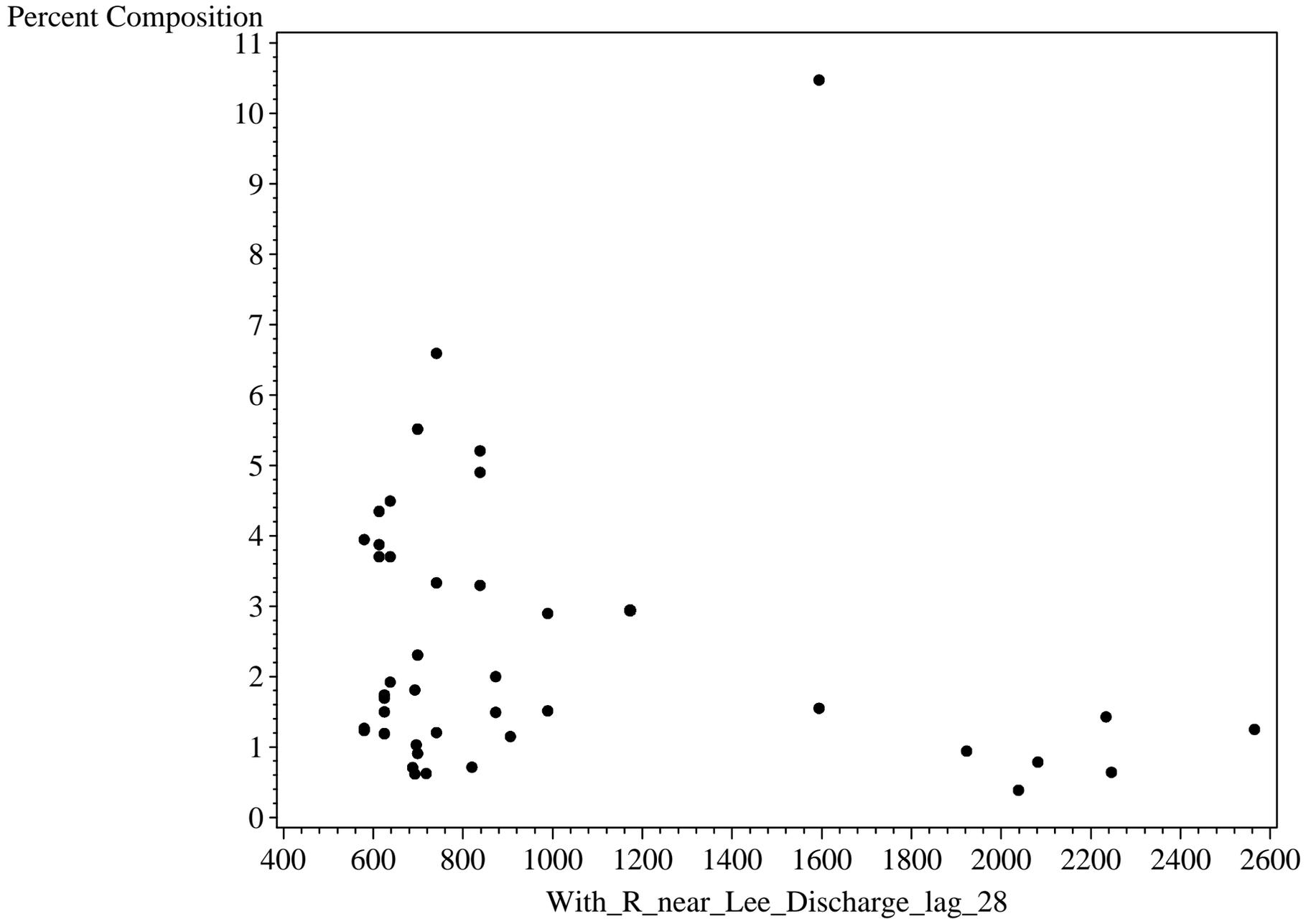
Percent Composition of Taxonomic Order vs. 28 Day Lag Withlacoochee Flow (at Lee)
order=Hydroid



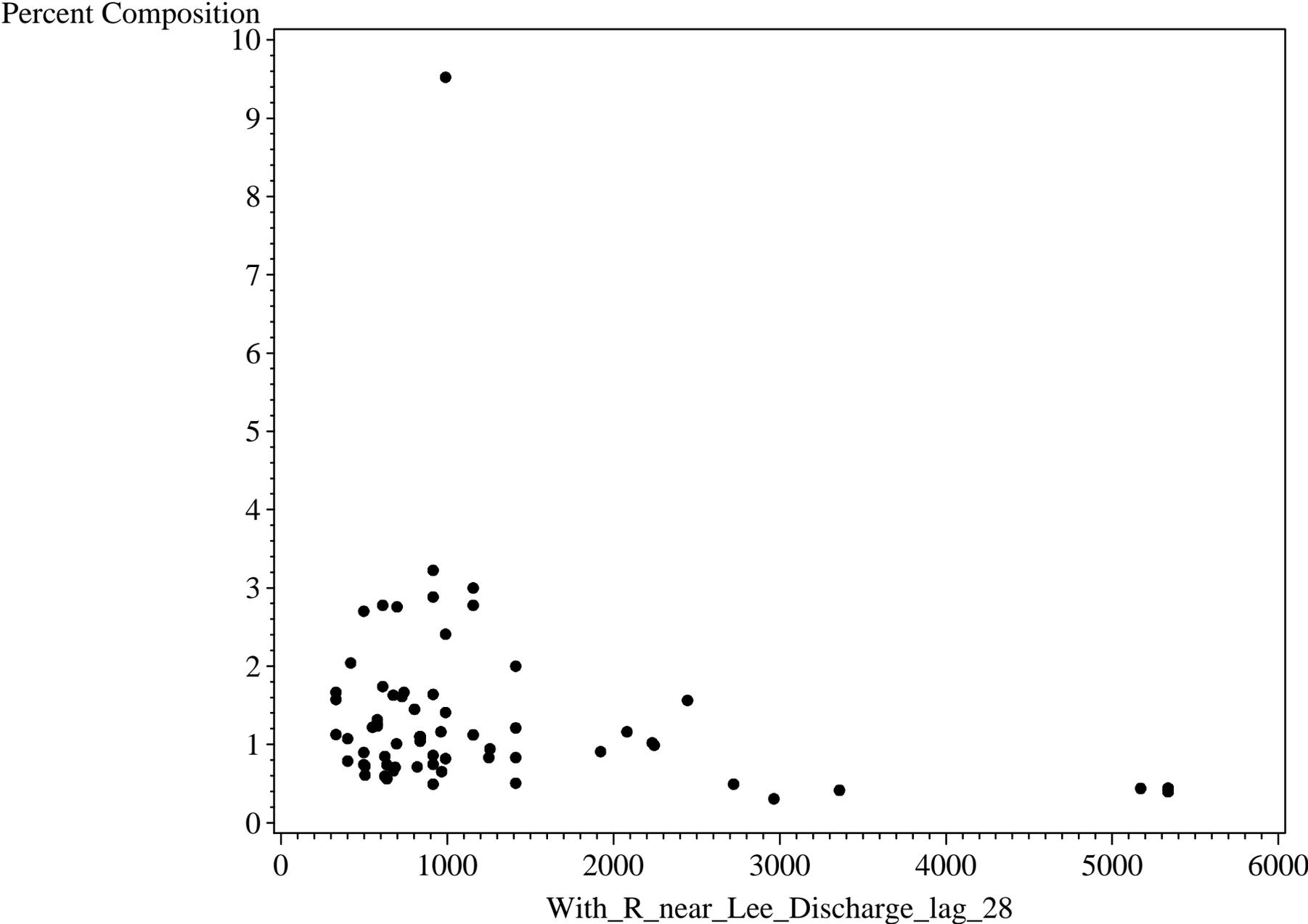
Percent Composition of Taxonomic Order vs. 28 Day Lag Withlacoochee Flow (at Lee)
order=Megalop



Percent Composition of Taxonomic Order vs. 28 Day Lag Withlacoochee Flow (at Lee)
order=Neotaen

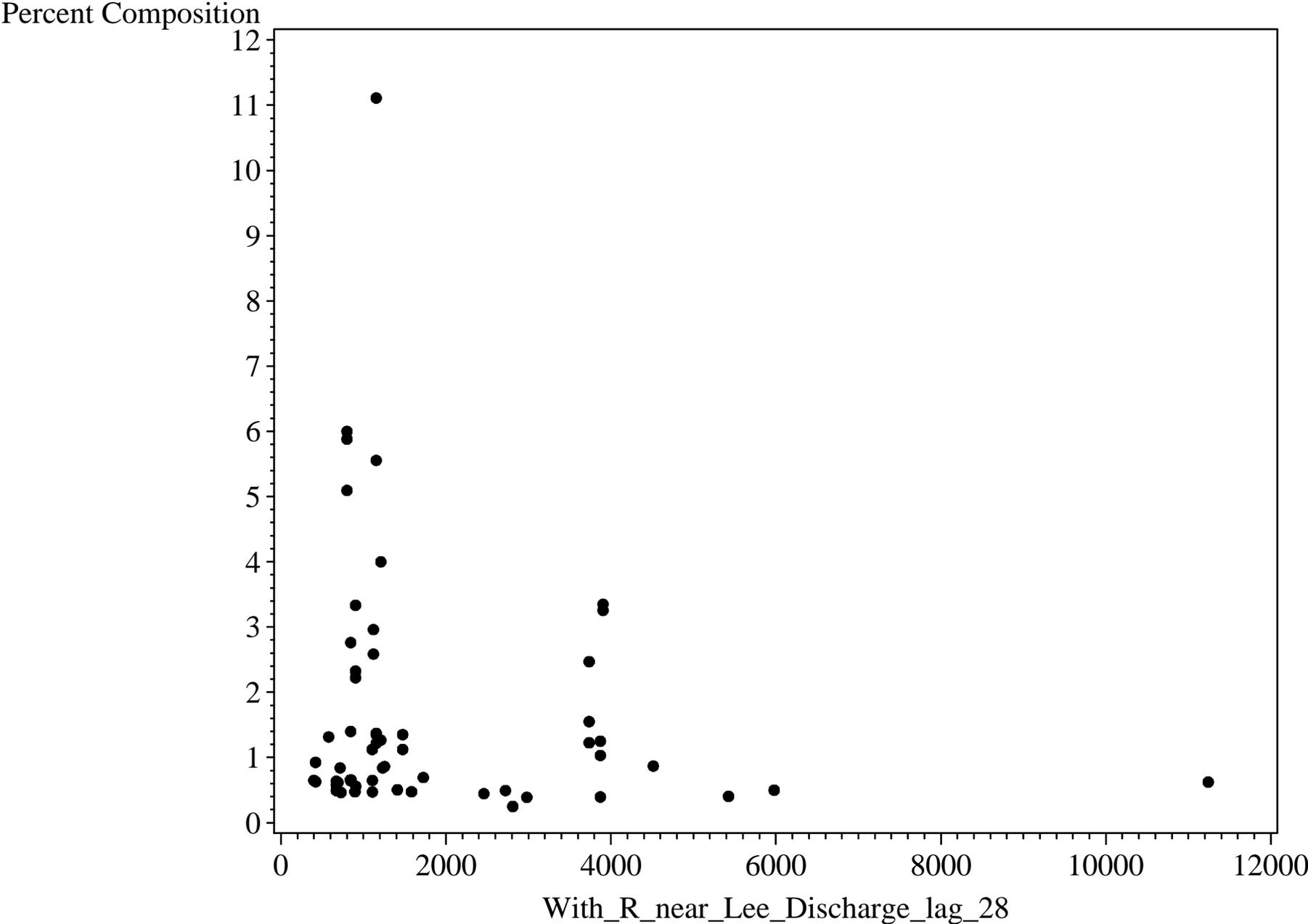


Percent Composition of Taxonomic Order vs. 28 Day Lag Withlacoochee Flow (at Lee)
order=Odonata

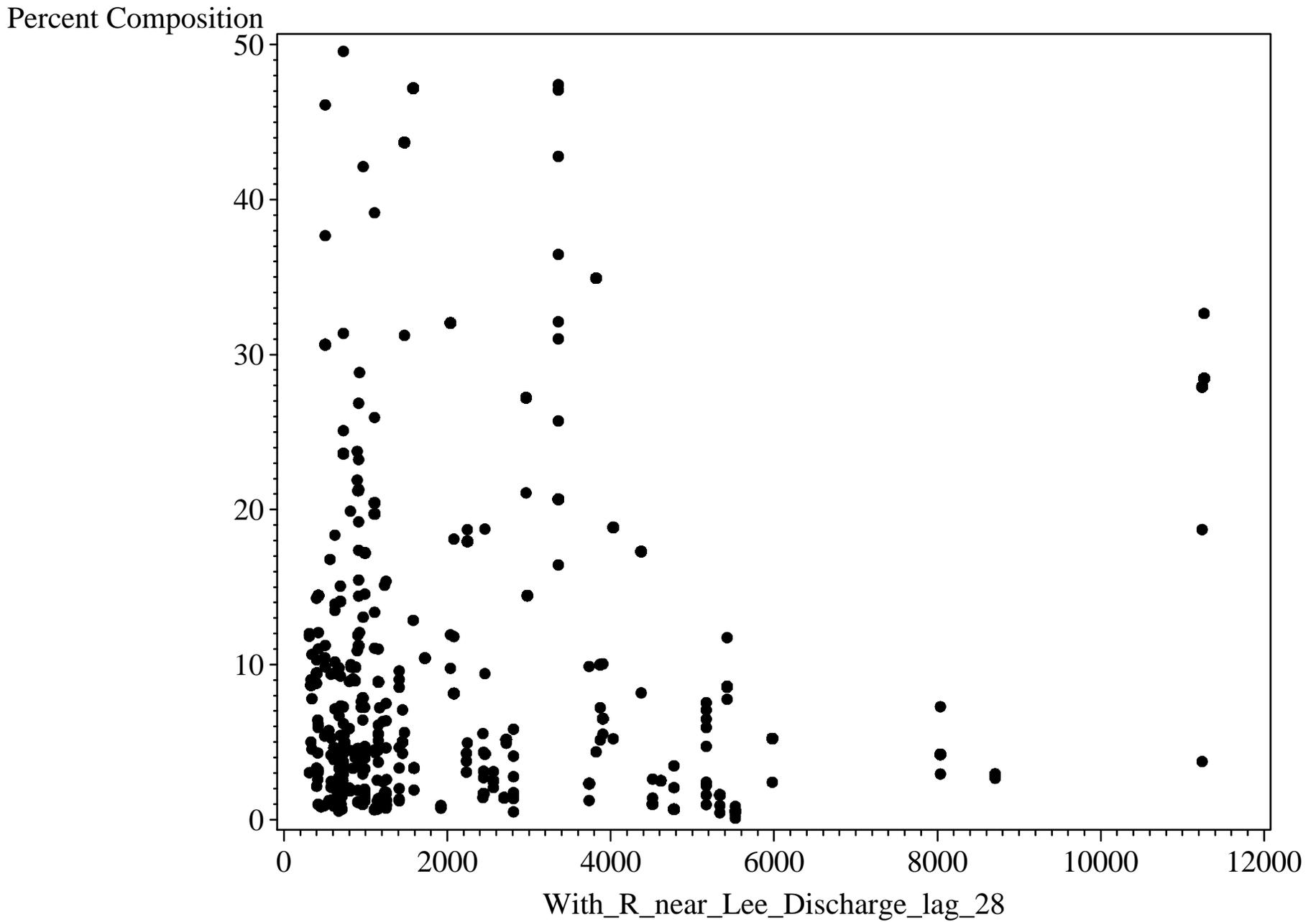


Percent Composition of Taxonomic Order vs. 28 Day Lag Withlacoochee Flow (at Lee)

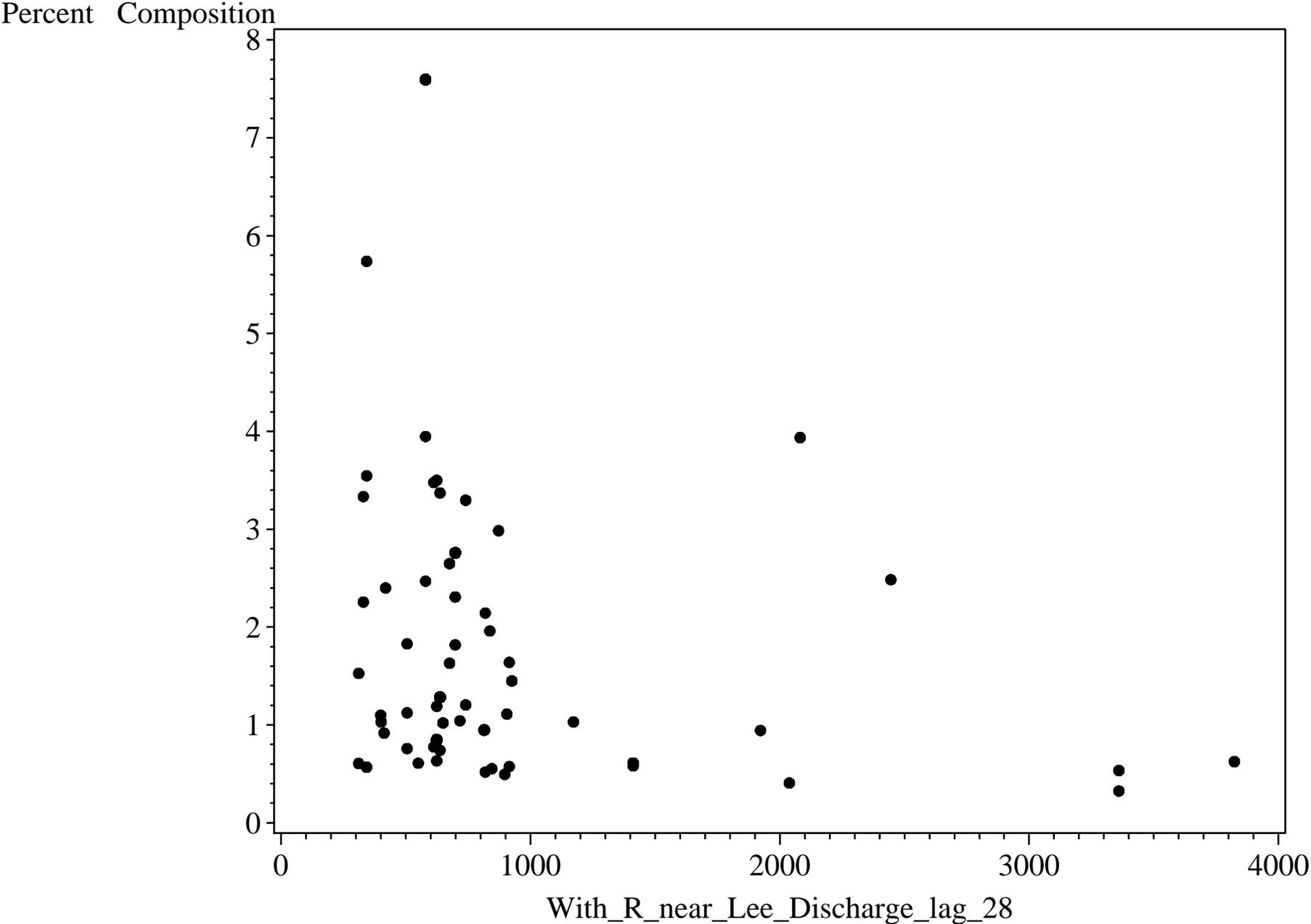
order=Plecopt



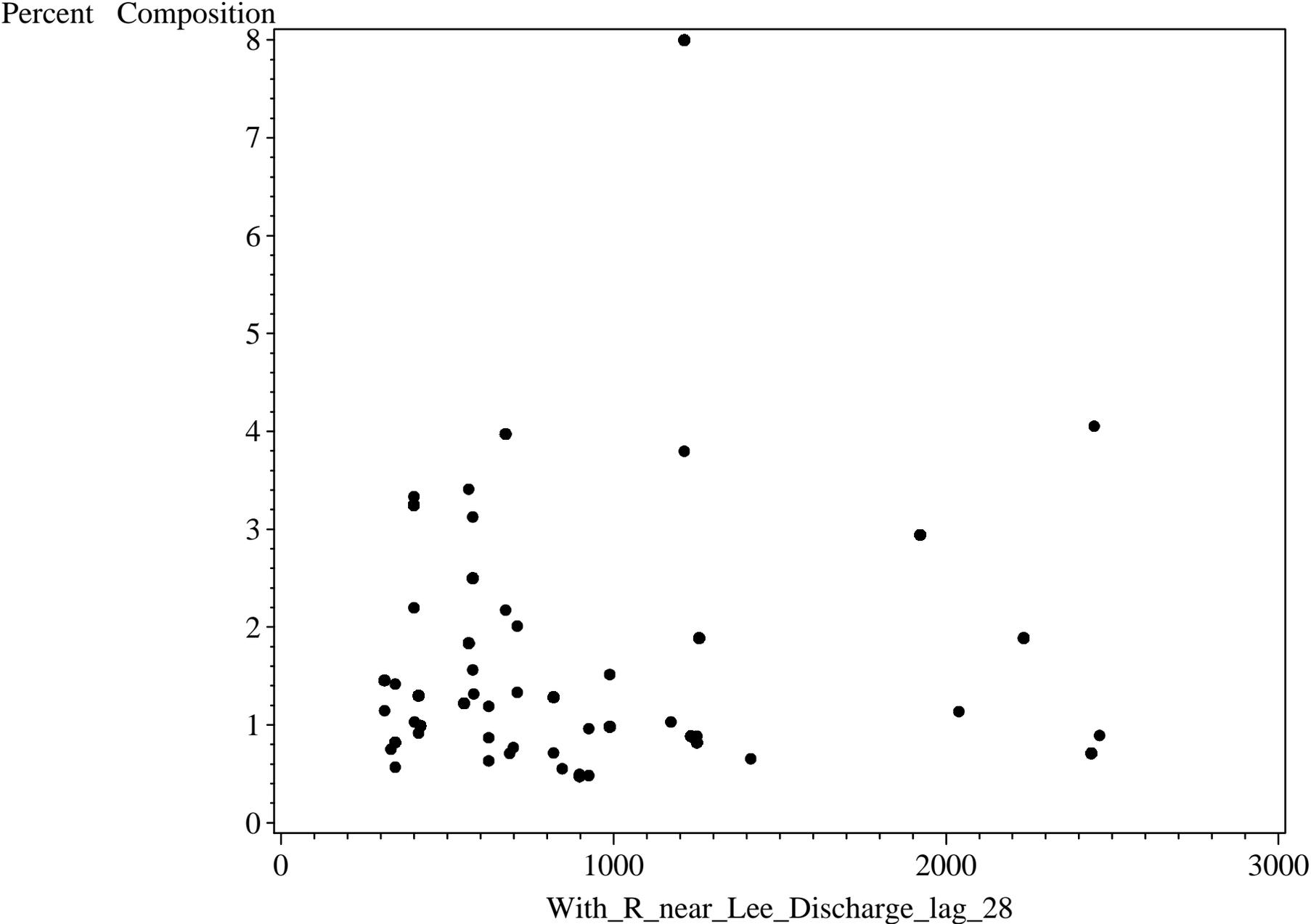
Percent Composition of Taxonomic Order vs. 28 Day Lag Withlacoochee Flow (at Lee)
order=Trichop



Percent Composition of Taxonomic Order vs. 28 Day Lag Withlacoochee Flow (at Lee)
order=Triclad

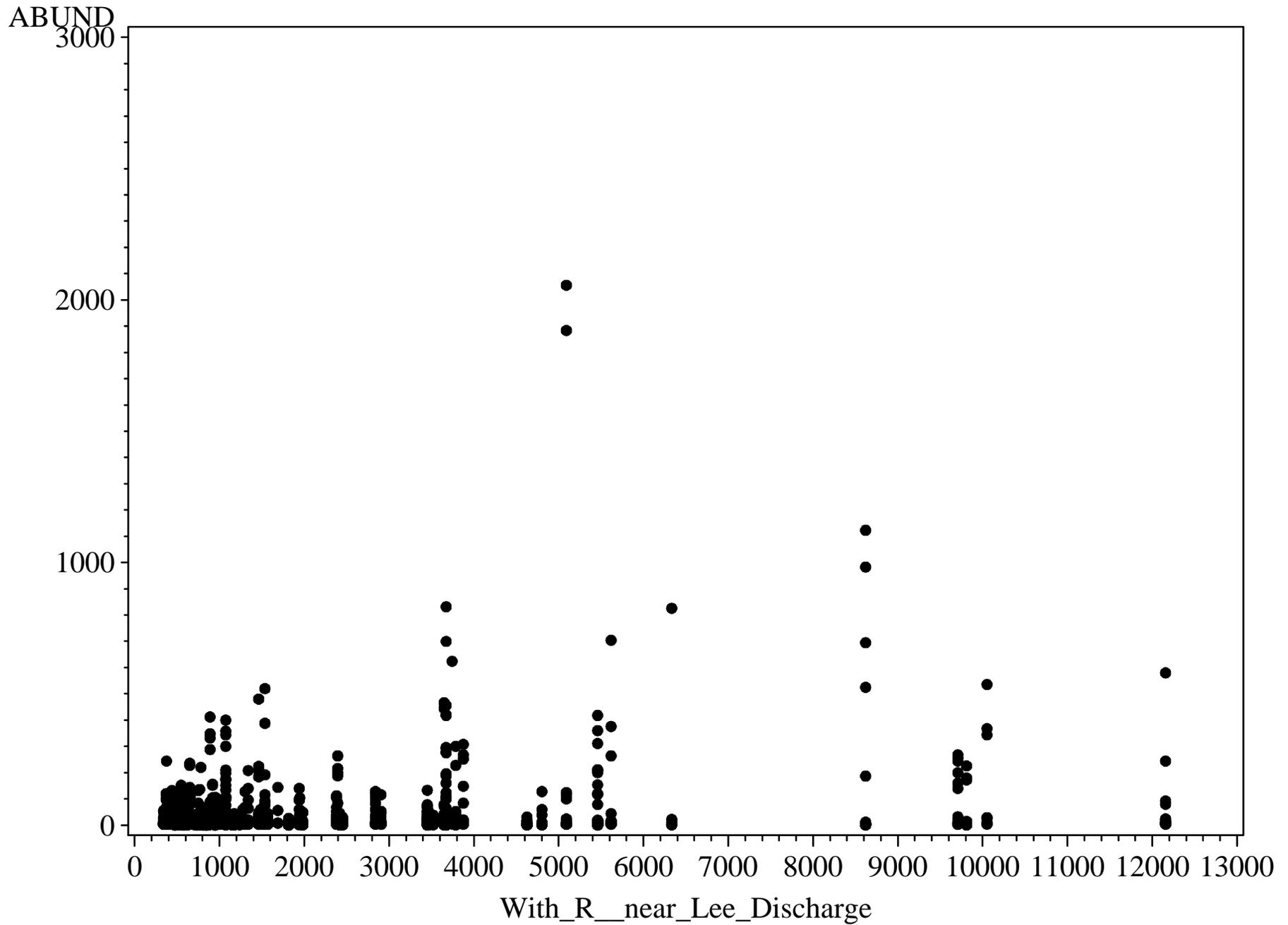


Percent Composition of Taxonomic Order vs. 28 Day Lag Withlacoochee Flow (at Lee)
order=Trombid



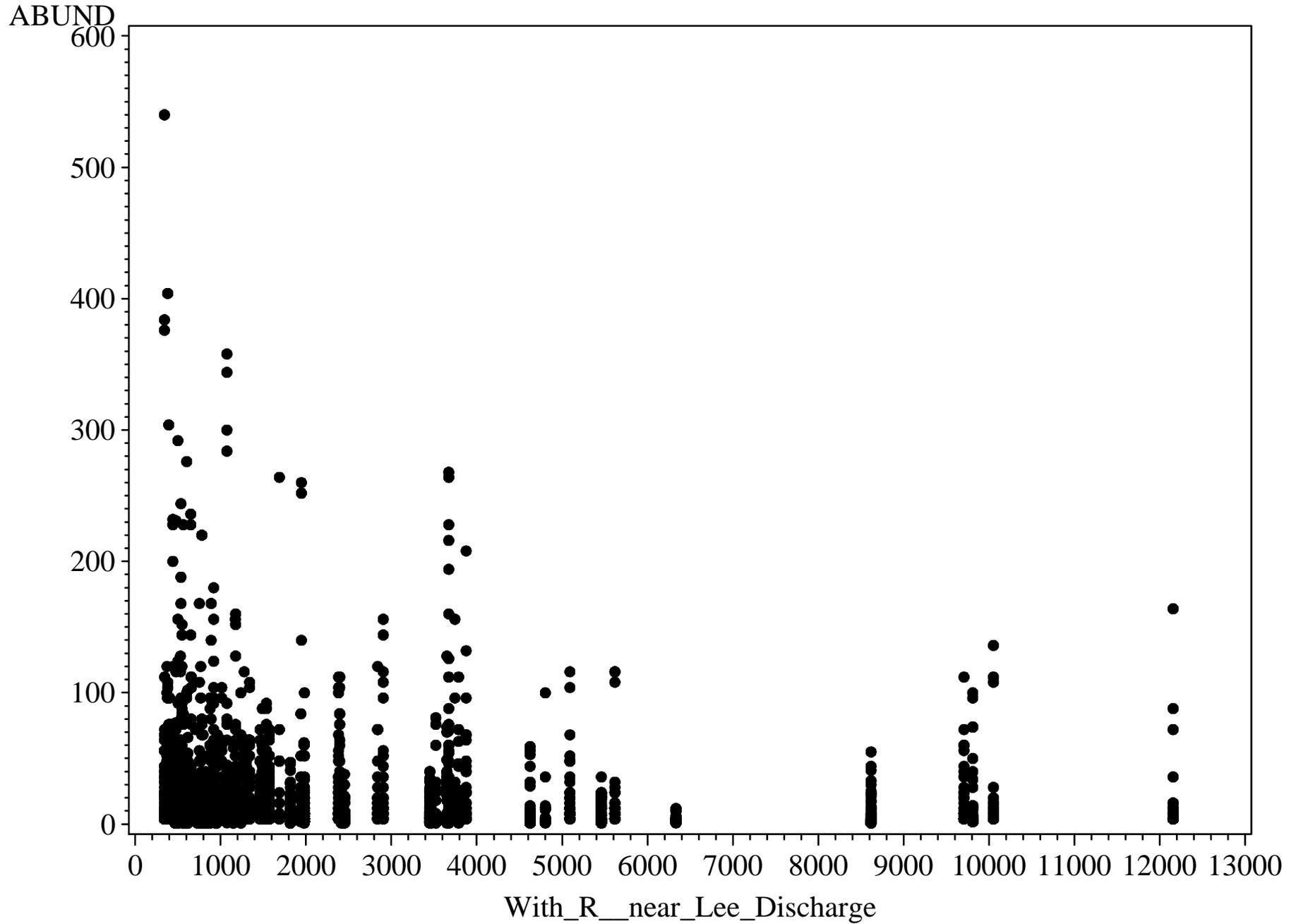
APPENDIX C6

Functional Feeding Group Abundance vs. Estimated Withlacoochee Flow (at Lee)
Collector-filter (suspension feeding) Invertebrates



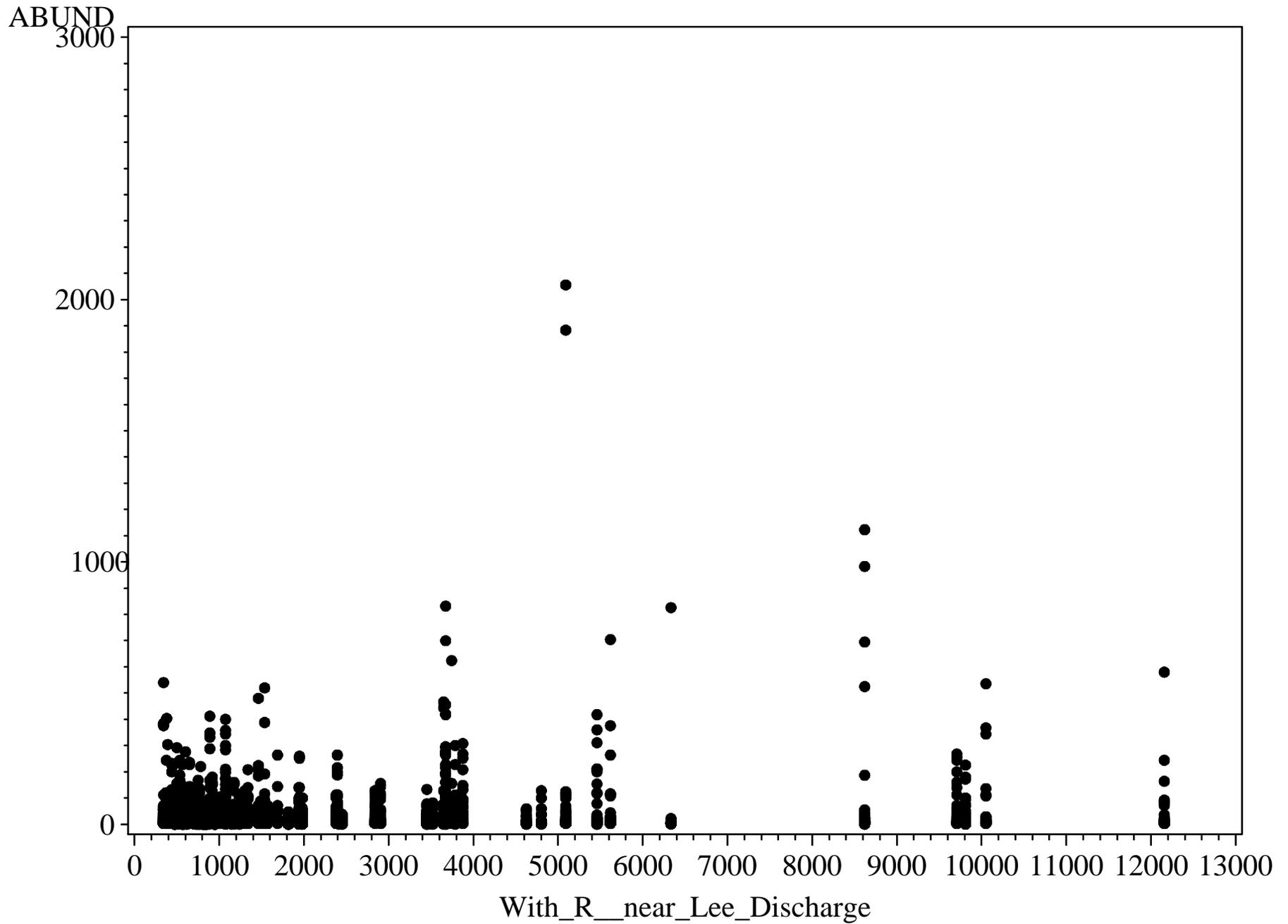
Functional Feeding Group Abundance vs. Estimated Withlacoochee Flow (at Lee)

Collector-gatherer (deposit feeding) Invertebrates

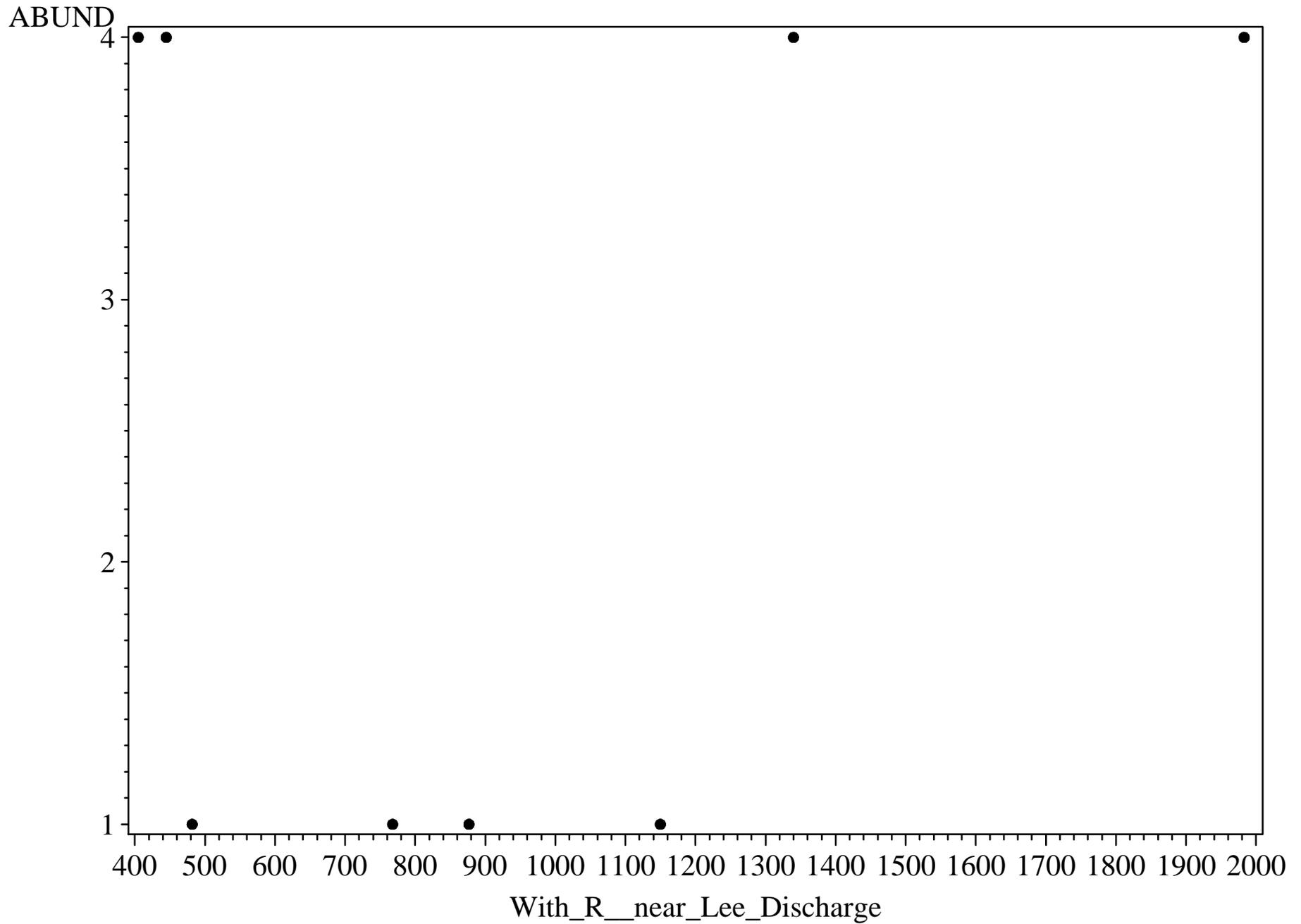


Functional Feeding Group Abundance vs. Estimated Withlacoochee Flow (at Lee)

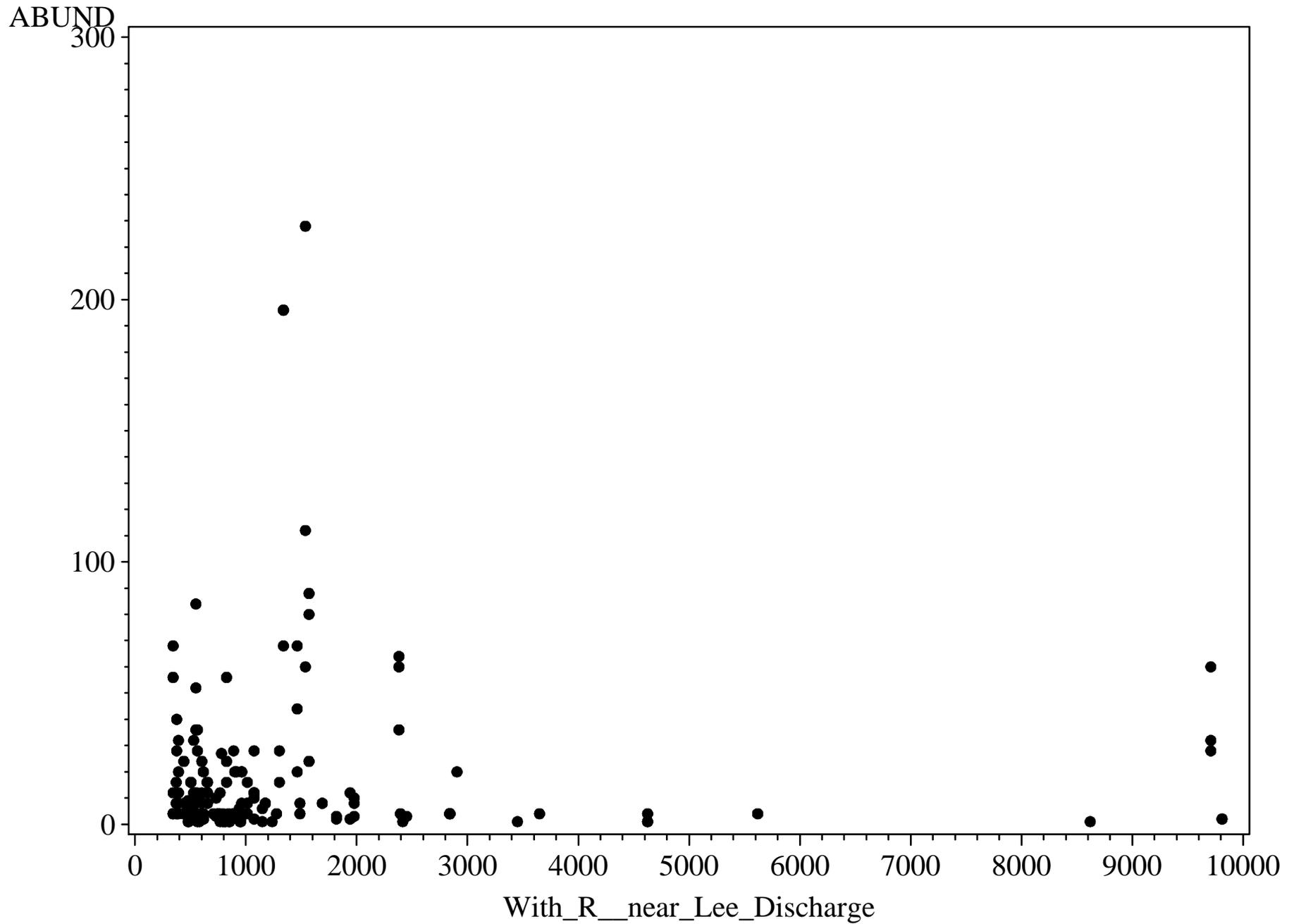
All Collectors (filter-suspension feeding + gatherer-deposit feeding) Invertebrates



Functional Feeding Group Abundance vs. Estimated Withlacoochee Flow (at Lee) Parasitic Invertebrates

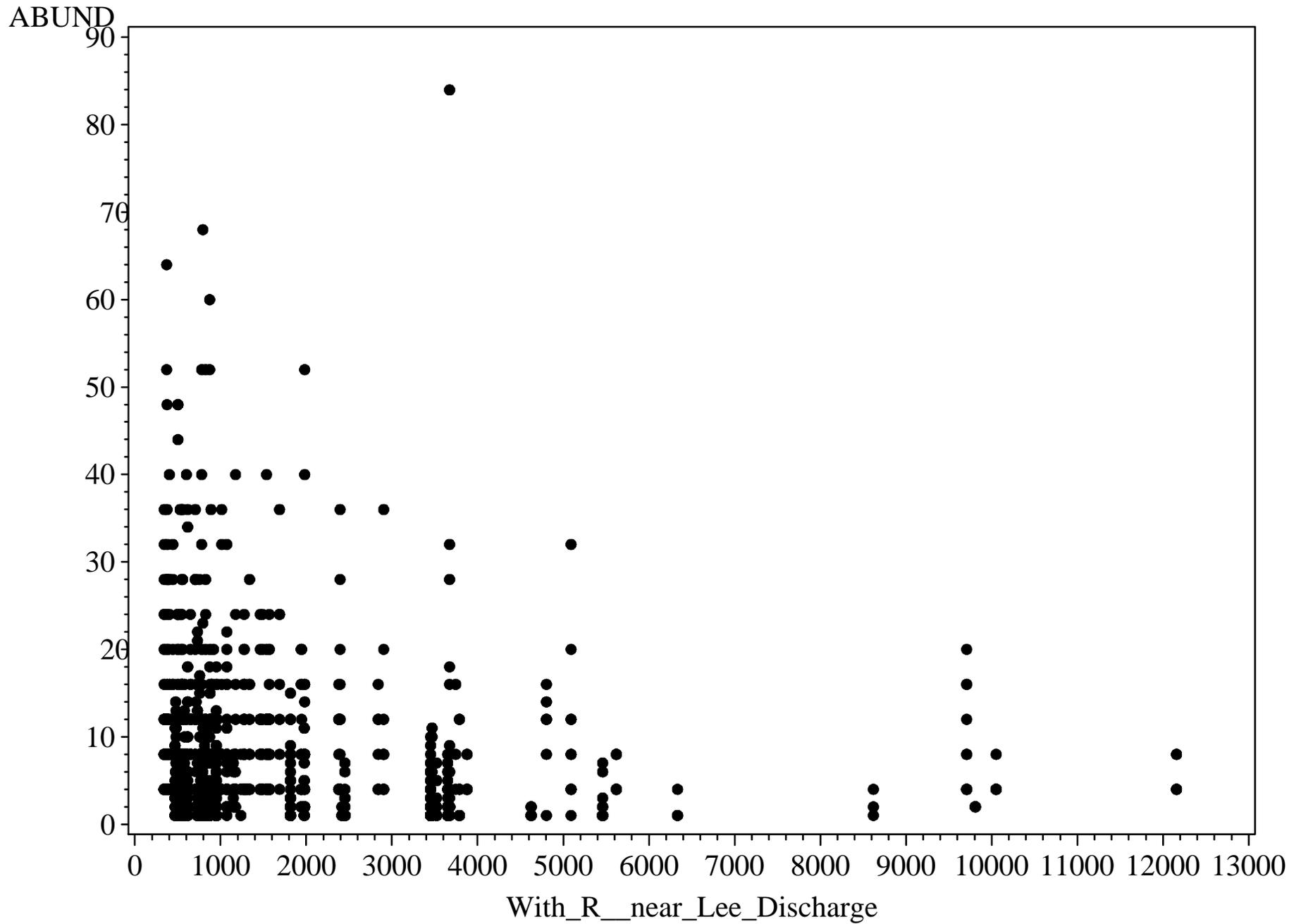


Functional Feeding Group Abundance vs. Estimated Withlacoochee Flow (at Lee) Plant Piercing Invertebrates

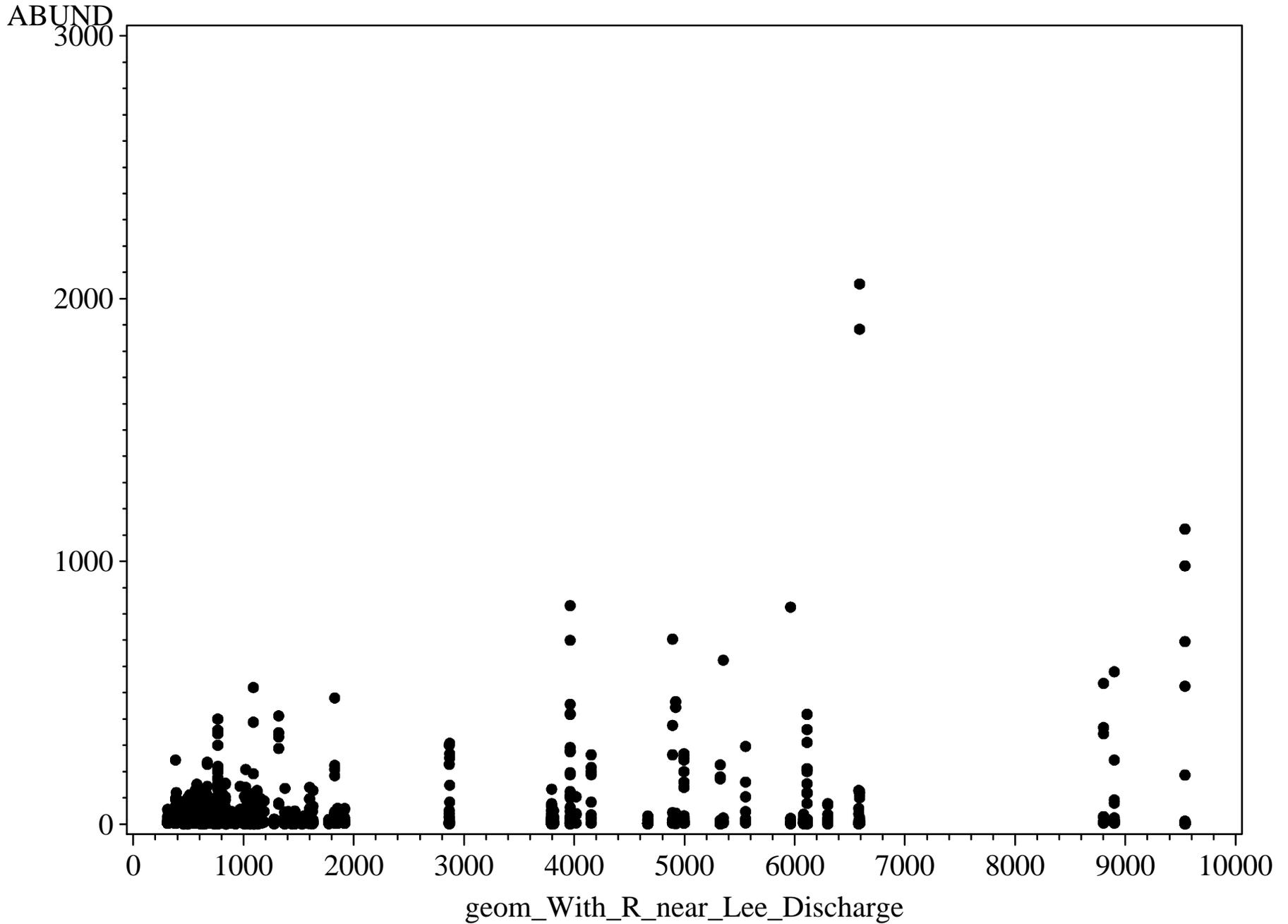


Functional Feeding Group Abundance vs. Estimated Withlacoochee Flow (at Lee)

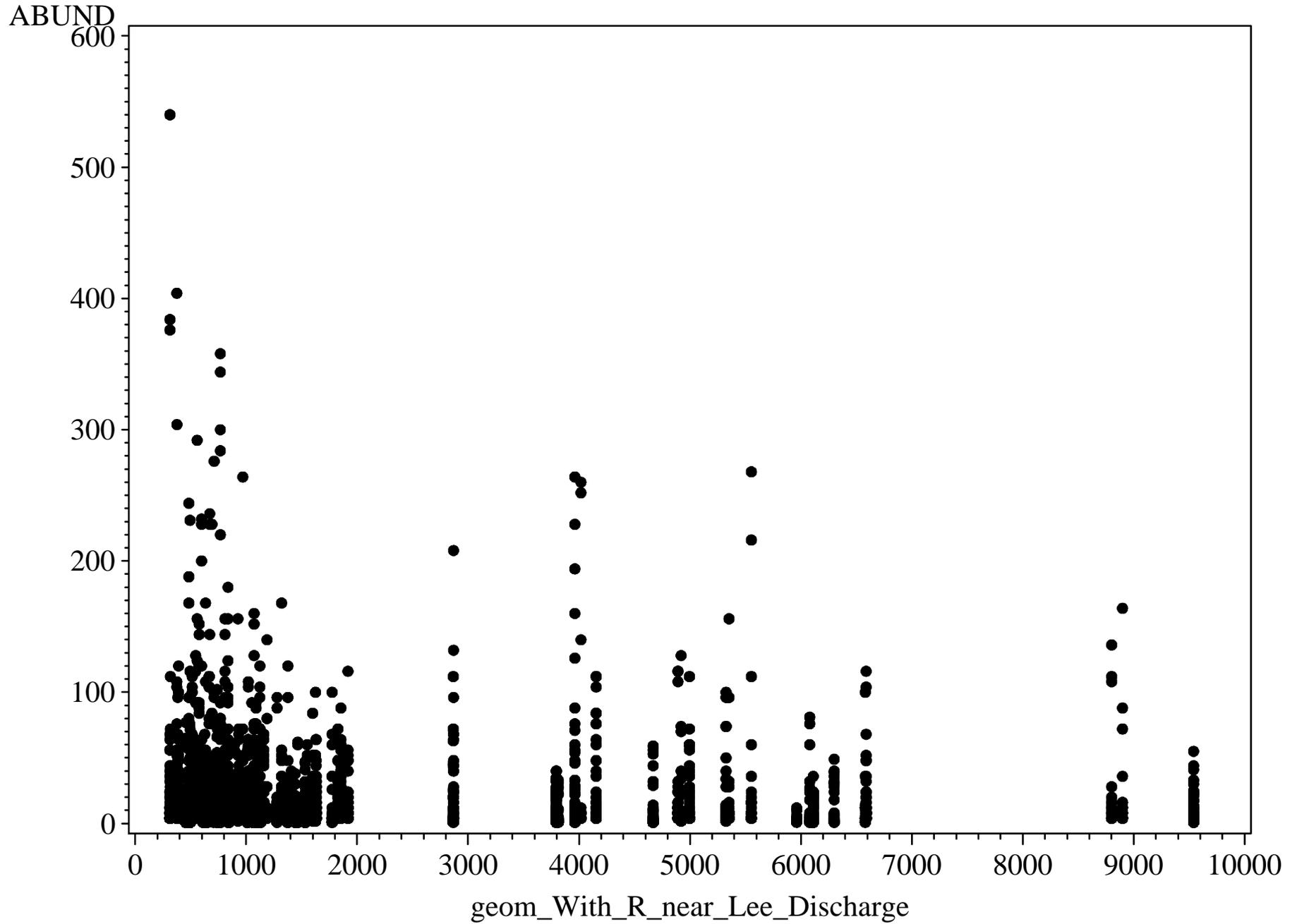
Predatory-Carnivorous Invertebrates



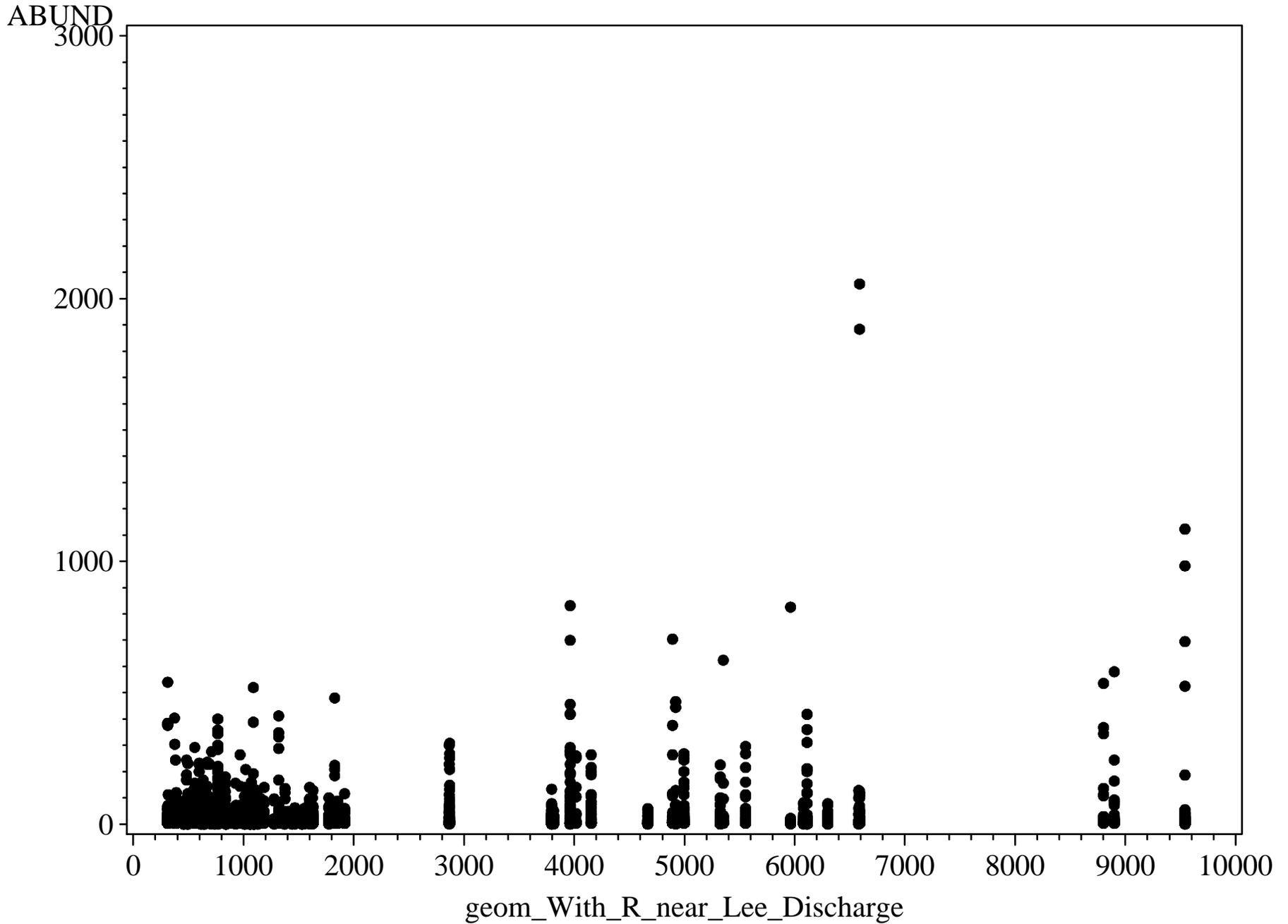
Functional Feeding Group Abundance vs. 30 Day Geometric Mean Withlacoochee Flow (at Lee)
Collector-filter (suspension feeding) Invertebrates



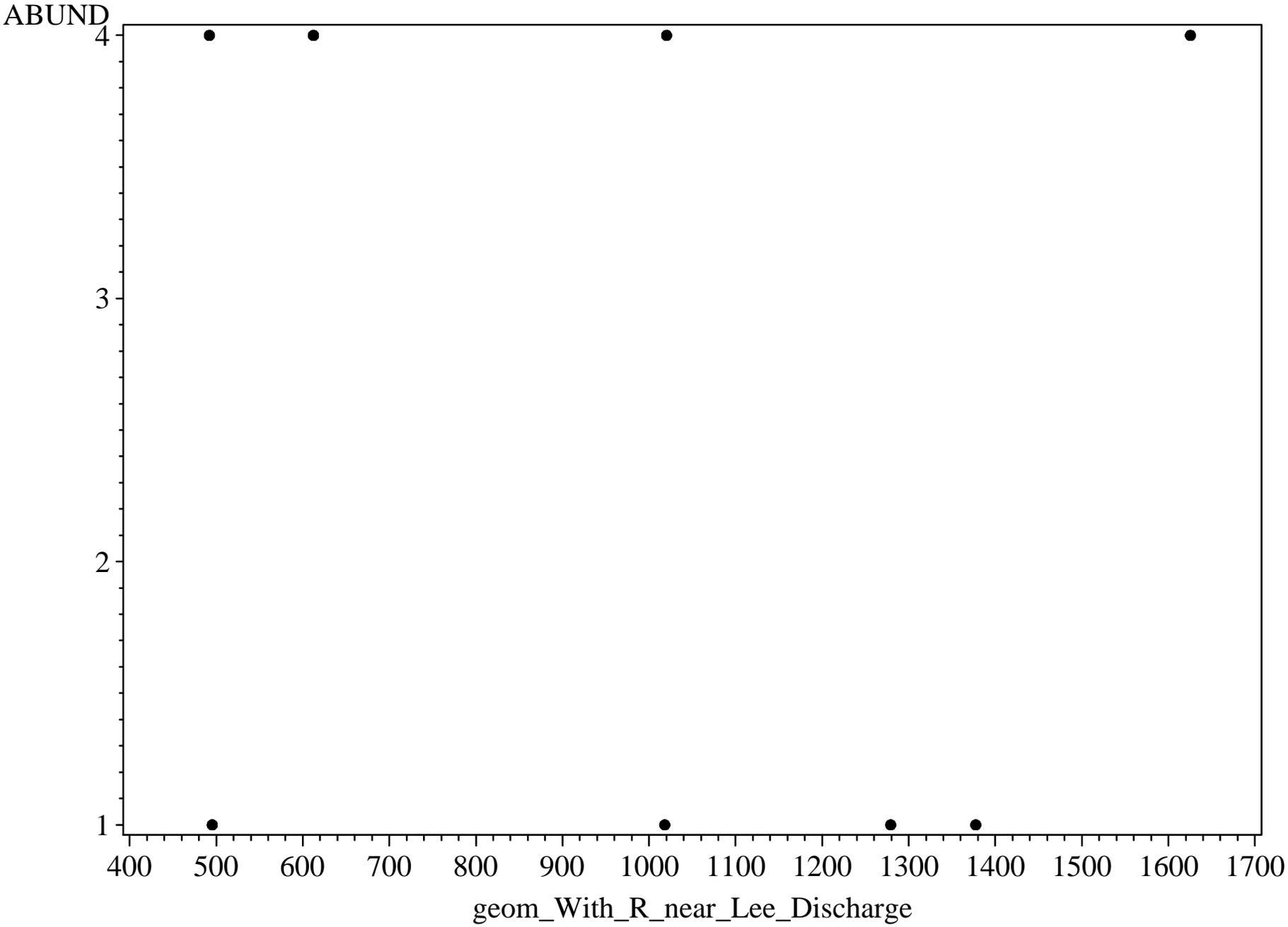
Functional Feeding Group Abundance vs. 30 Day Geometric Mean Withlacoochee Flow (at Lee)
Collector-gatherer (deposit feeding) Invertebrates



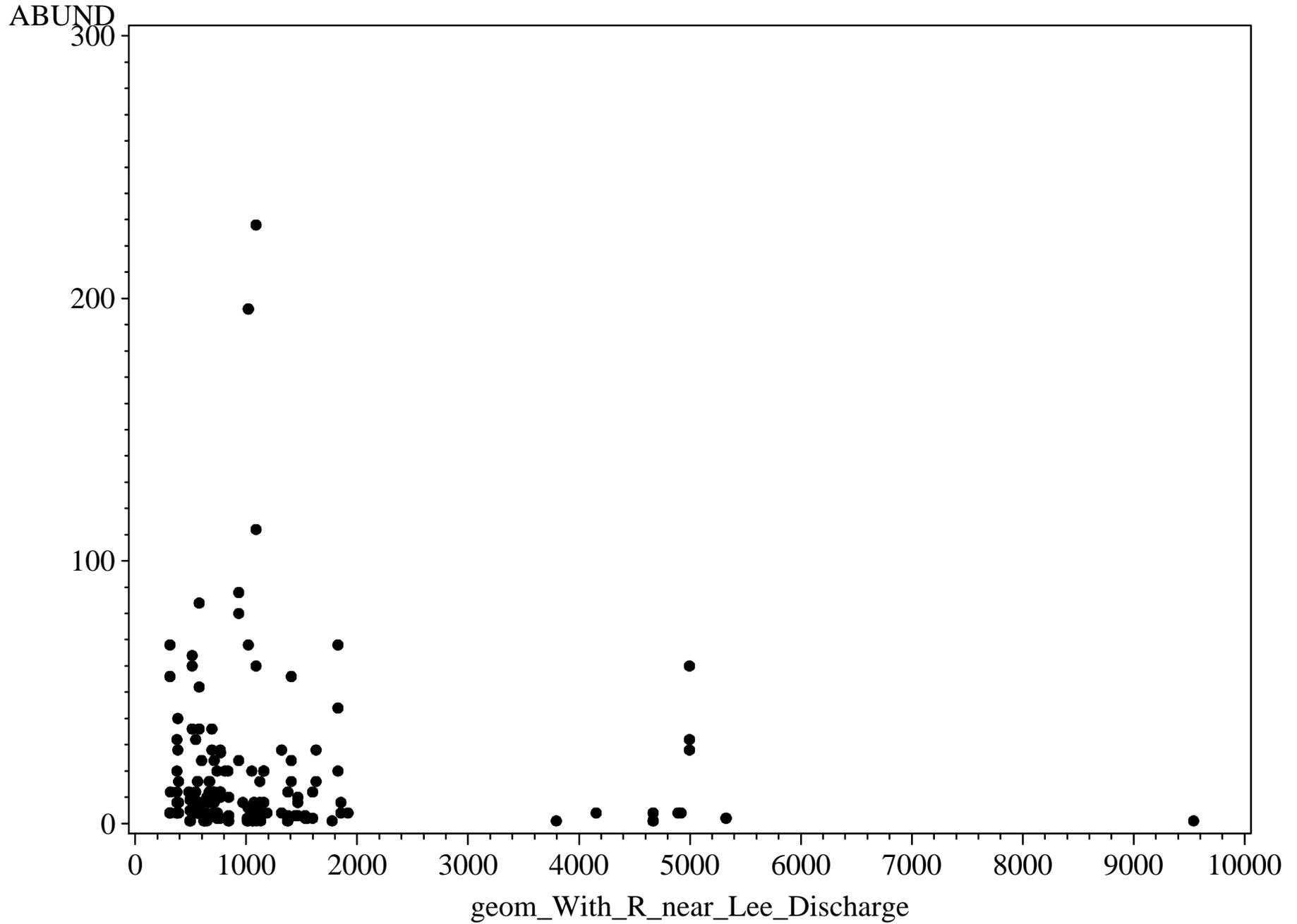
Functional Feeding Group Abundance vs. 30 Day Geometric Mean Withlacoochee Flow (at Lee)
All Collectors (filter-suspension feeding + gatherer-deposit feeding) Invertebrates



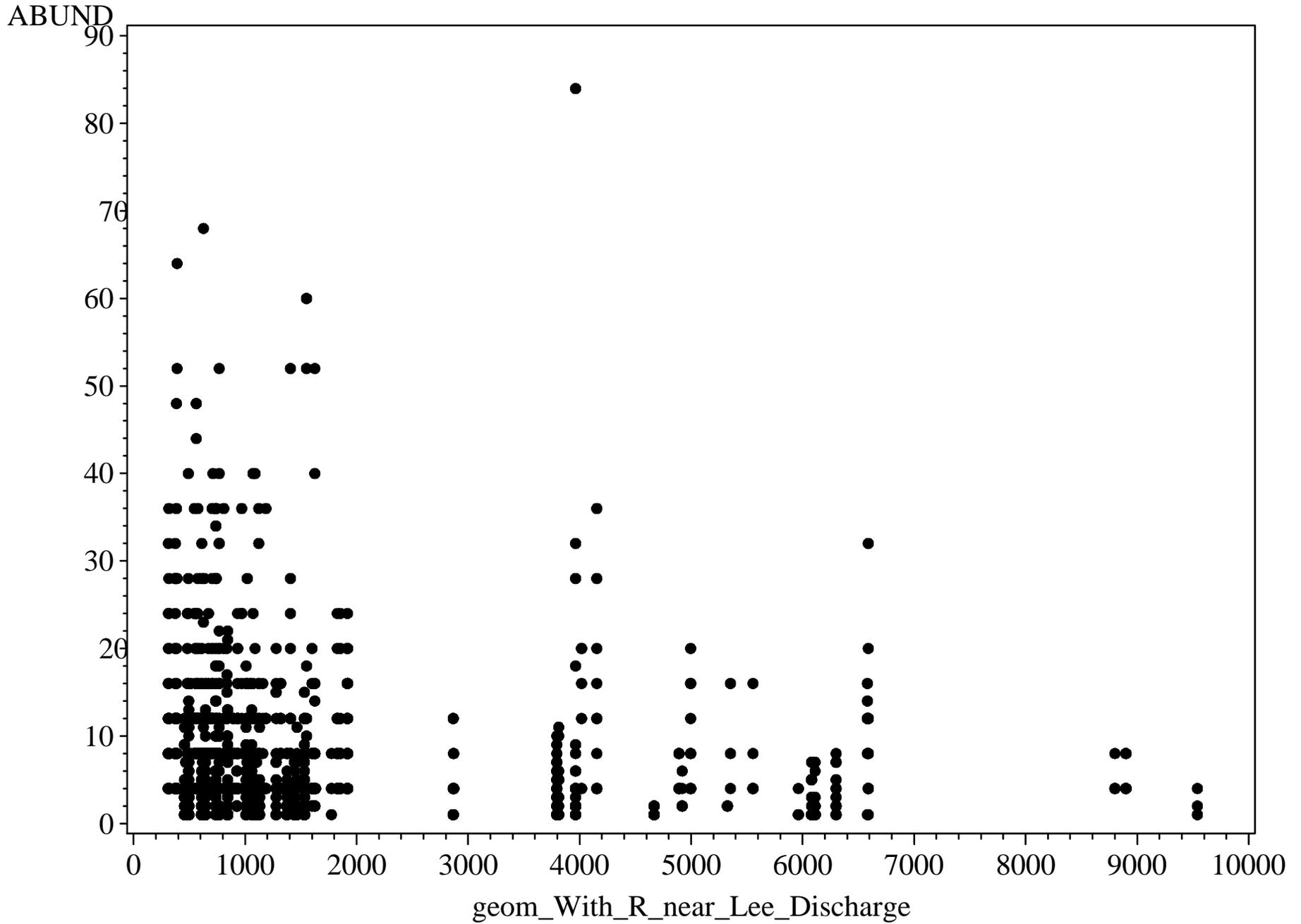
Functional Feeding Group Abundance vs. 30 Day Geometric Mean Withlacoochee Flow (at Lee)
Parasitic Invertebrates



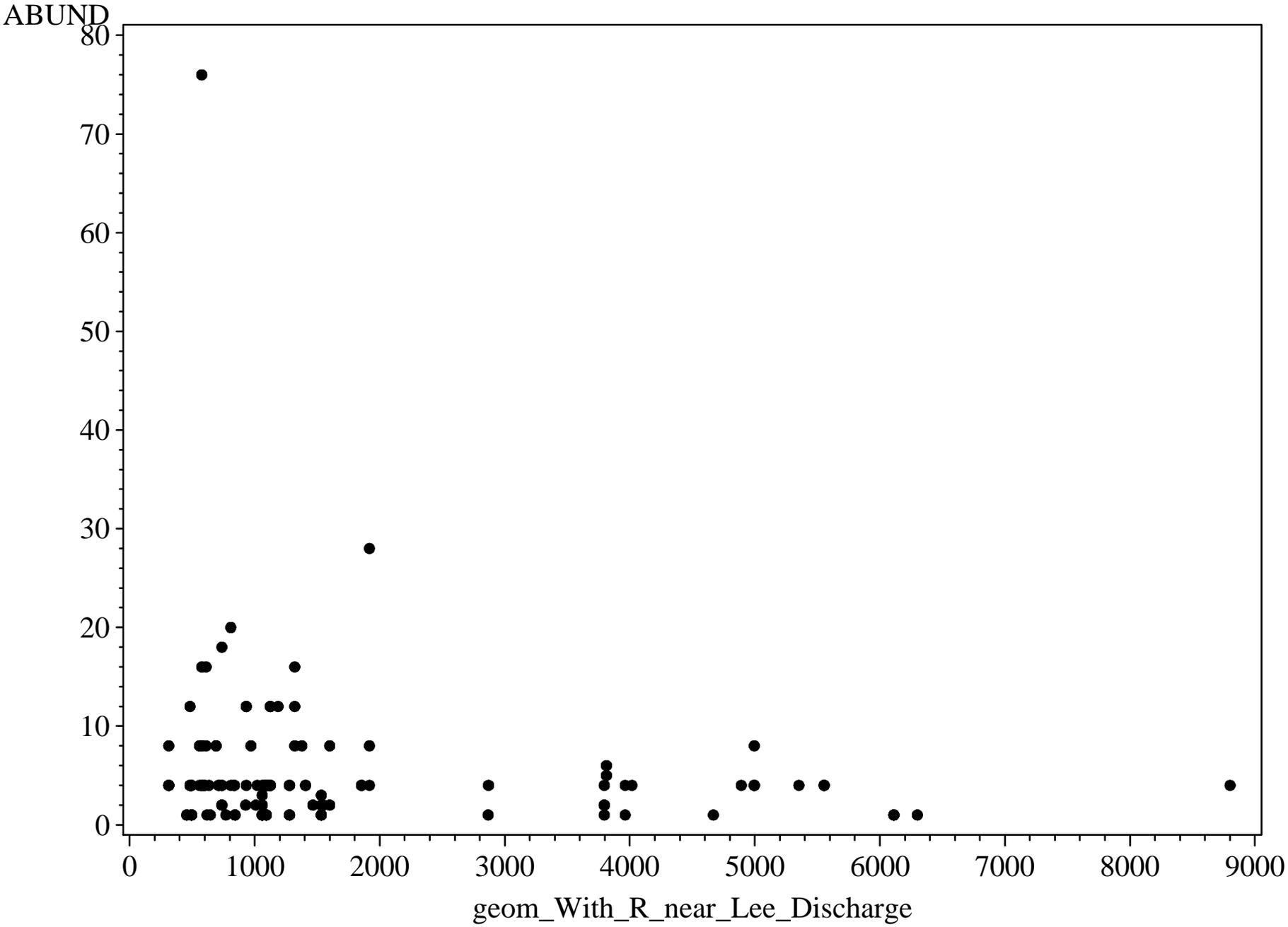
Functional Feeding Group Abundance vs. 30 Day Geometric Mean Withlacoochee Flow (at Lee)
Plant Piercing Invertebrates



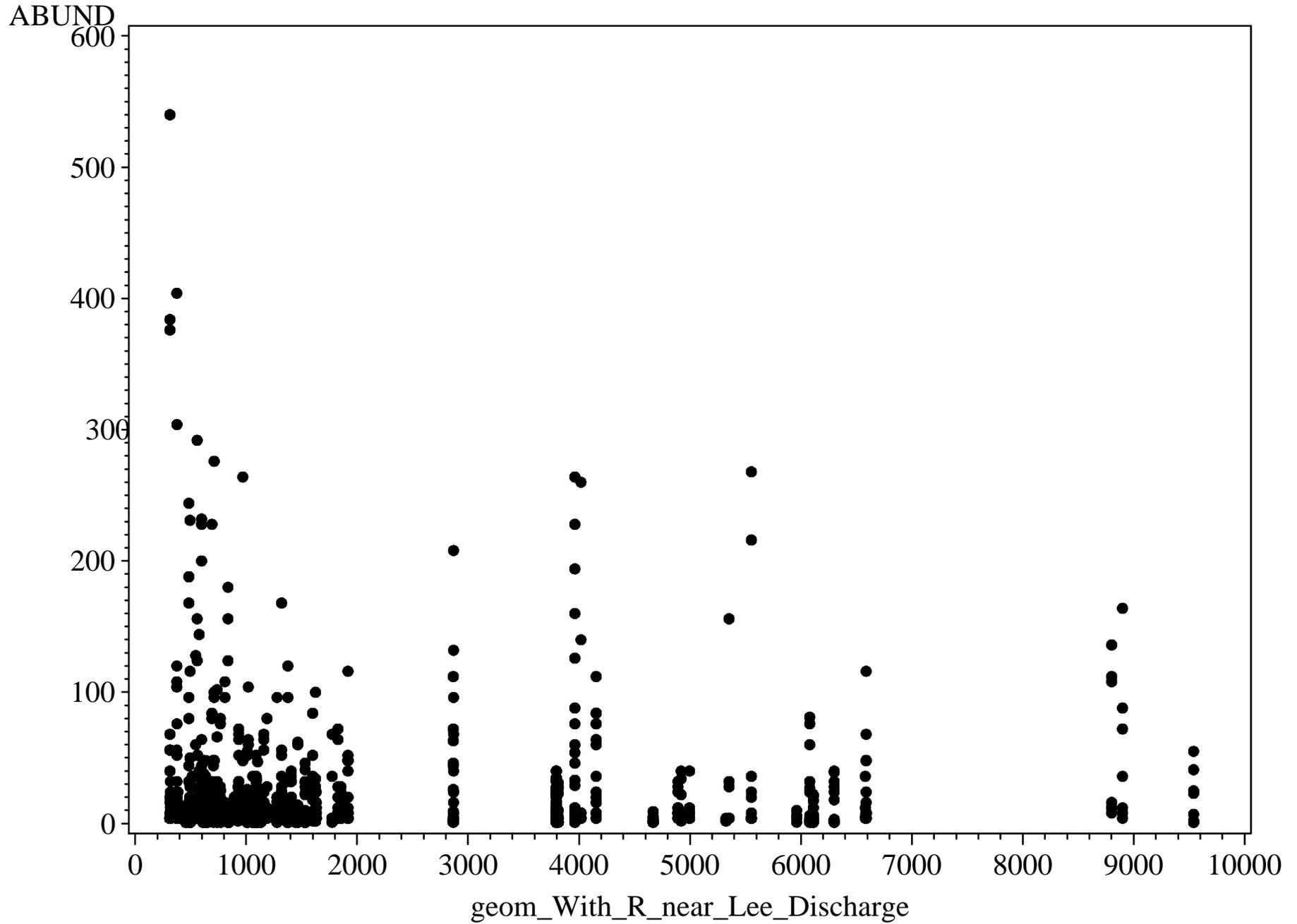
Functional Feeding Group Abundance vs. 30 Day Geometric Mean Withlacoochee Flow (at Lee)
Predatory-Carnivorous Invertebrates



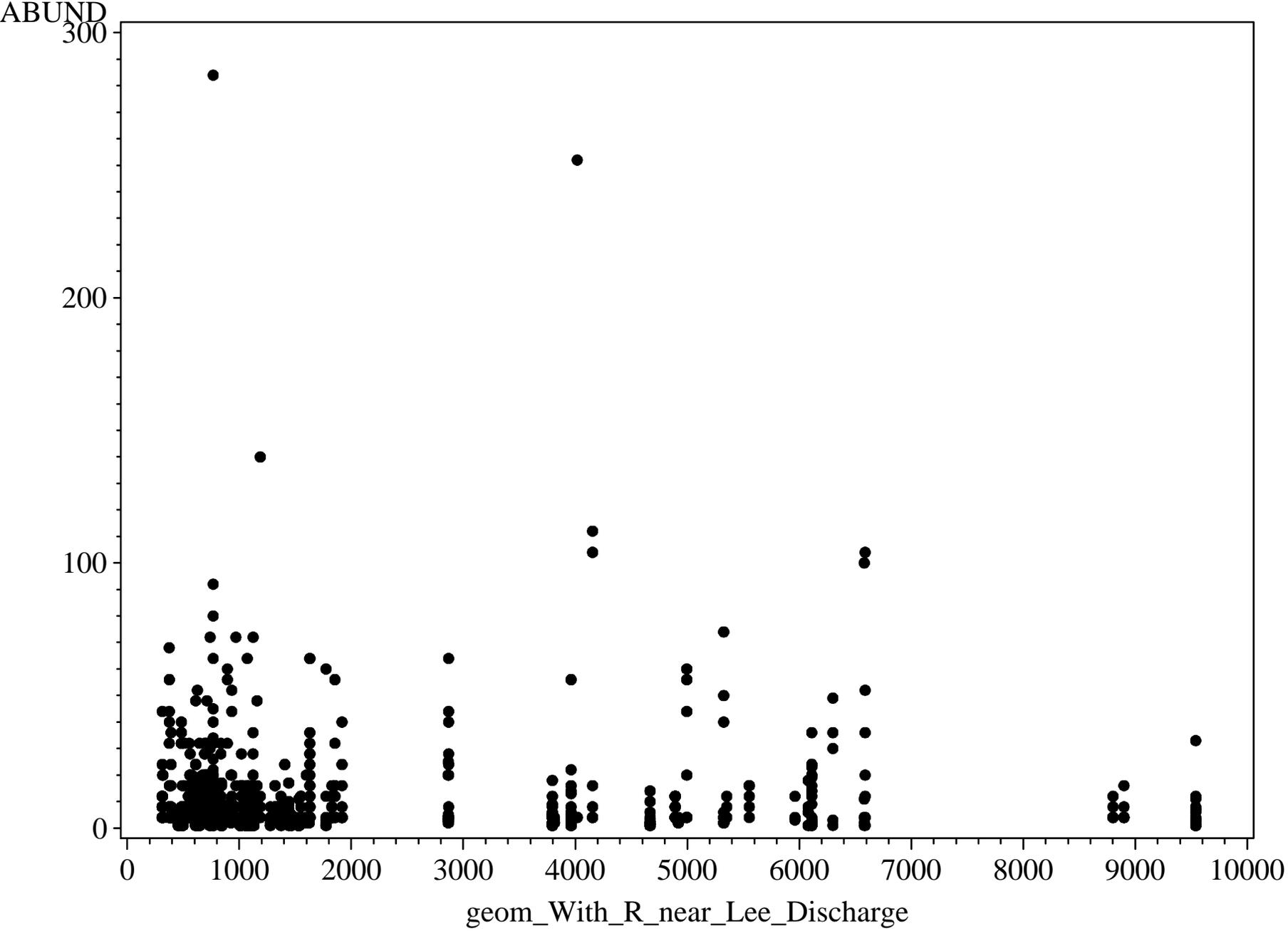
Functional Feeding Group Abundance vs. 30 Day Geometric Mean Withlacoochee Flow (at Lee)
Scavenger Invertebrates



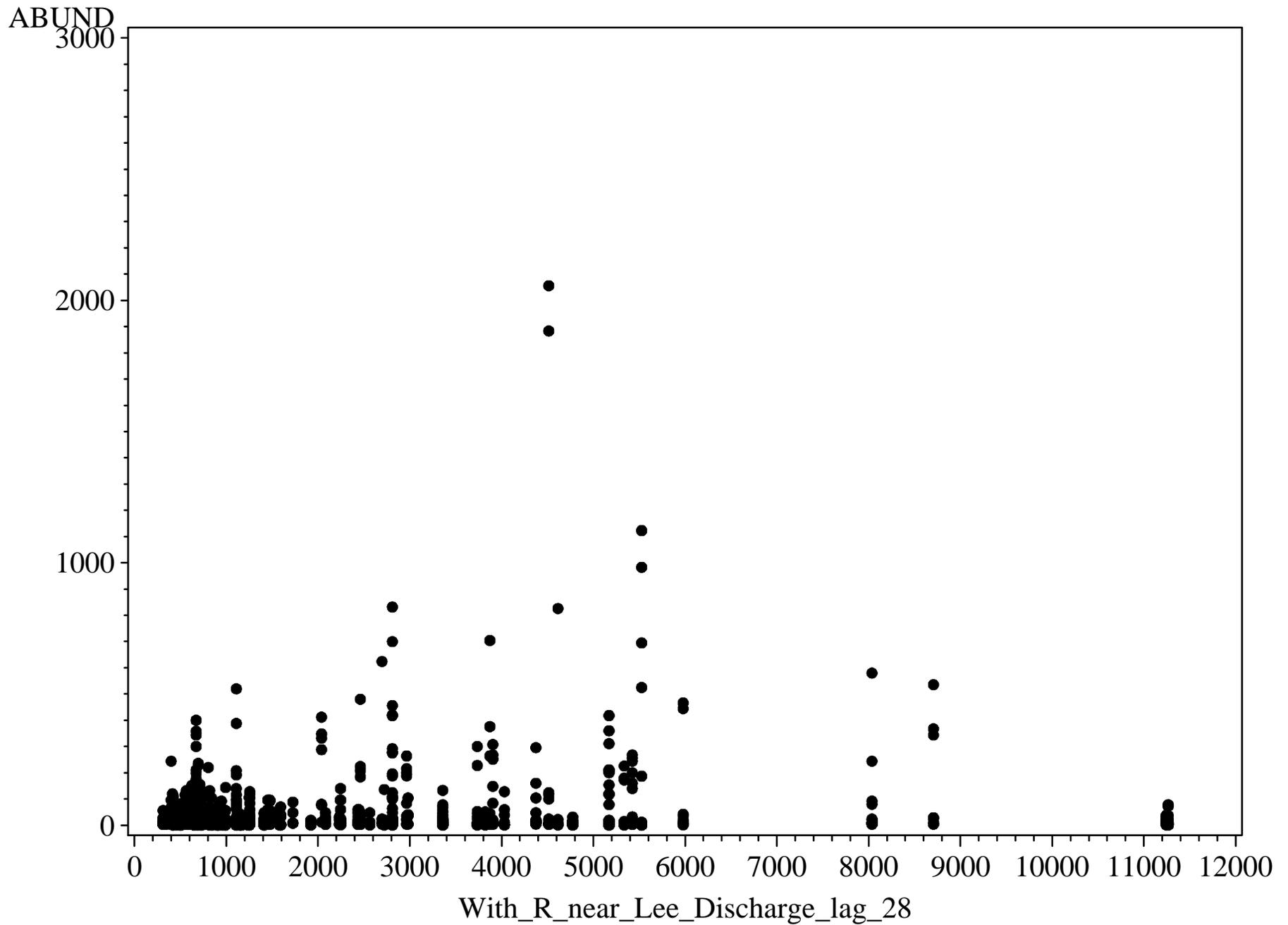
Functional Feeding Group Abundance vs. 30 Day Geometric Mean Withlacoochee Flow (at Lee)
Scraper Invertebrates



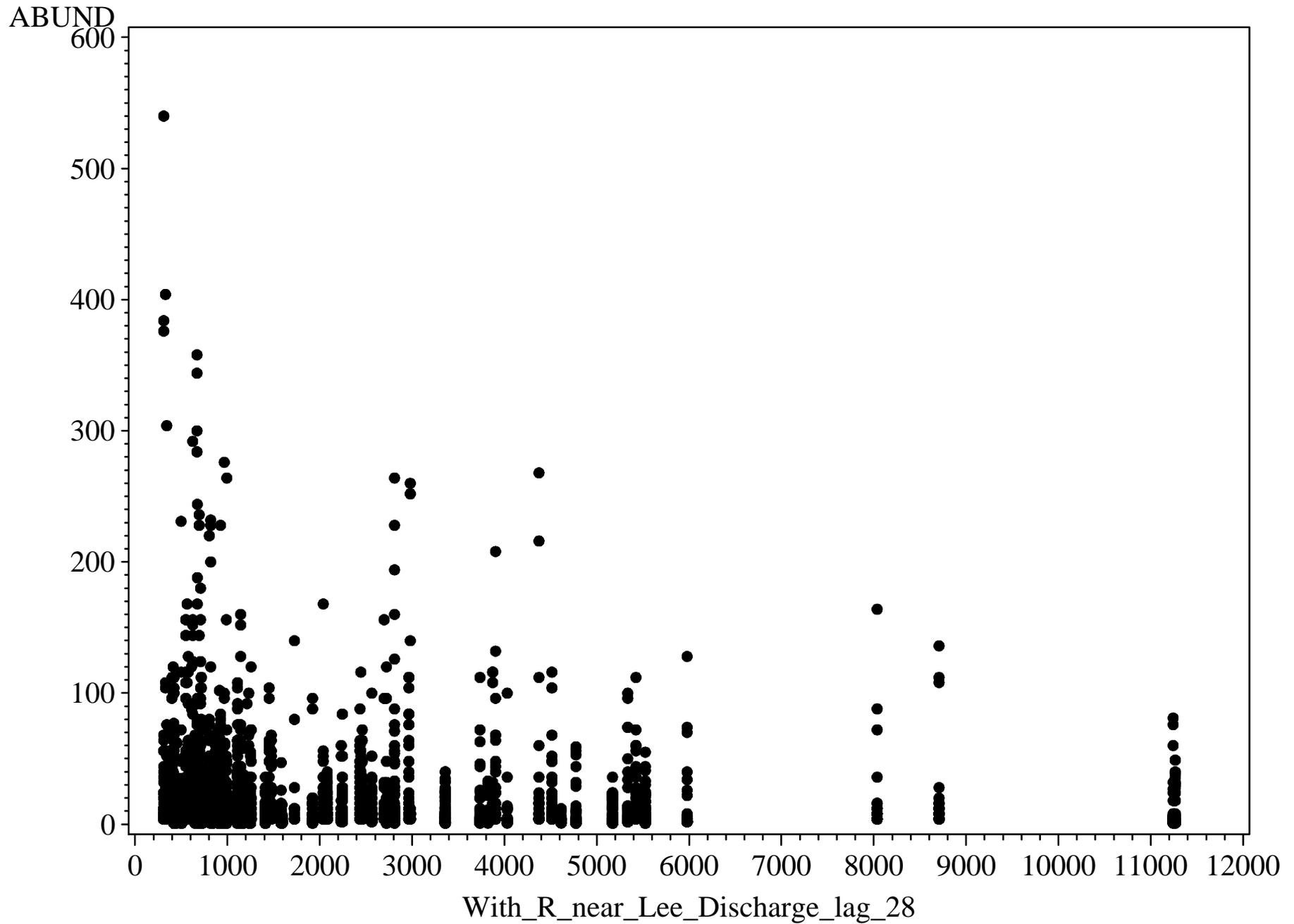
Functional Feeding Group Abundance vs. 30 Day Geometric Mean Withlacoochee Flow (at Lee) Shredder Invertebrates



Functional Feeding Group Abundance vs. 28 Day Lag Withlacoochee Flow (at Lee)
Collector-filter (suspension feeding) Invertebrates

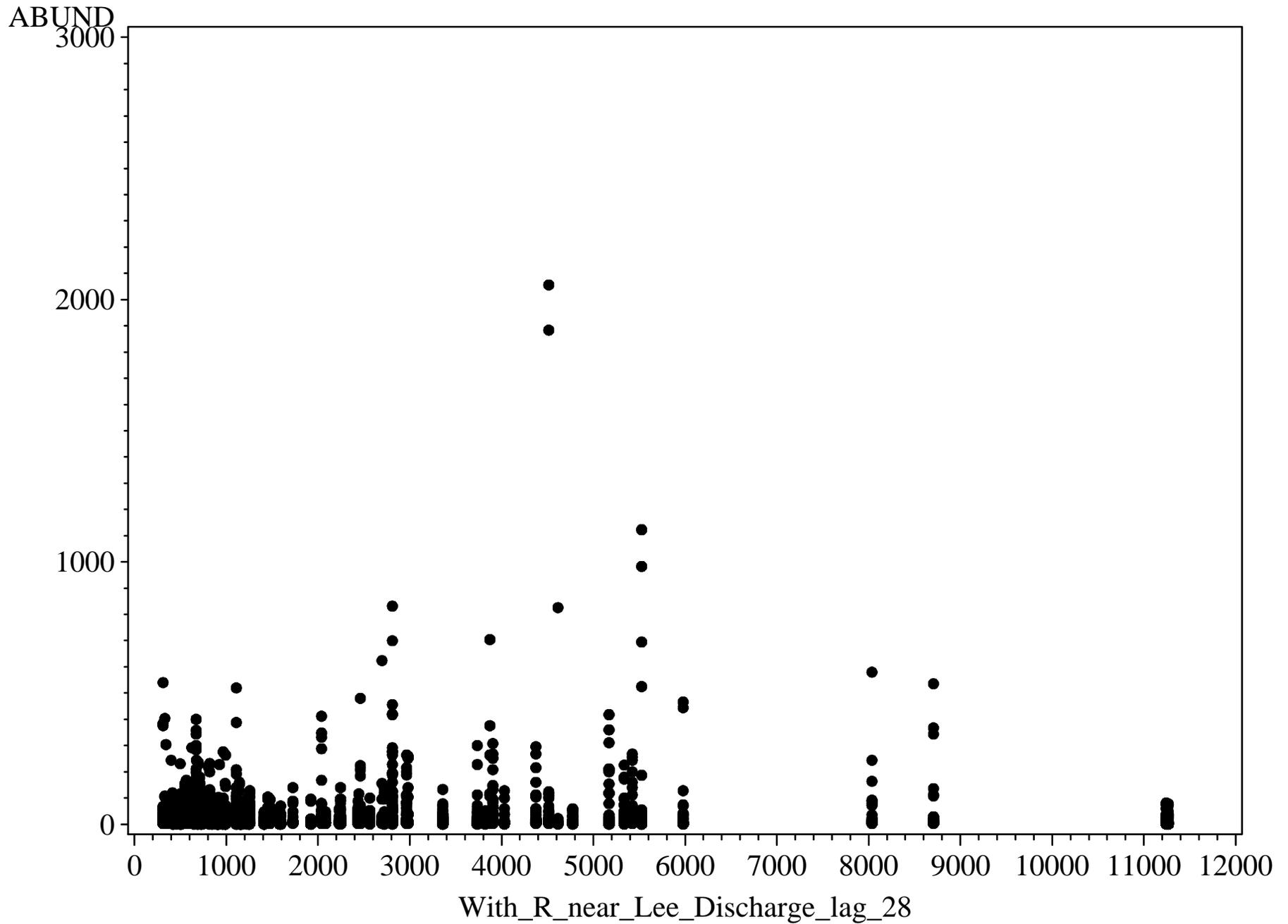


Functional Feeding Group Abundance vs. 28 Day Lag Withlacoochee Flow (at Lee)
Collector-gatherer (deposit feeding) Invertebrates

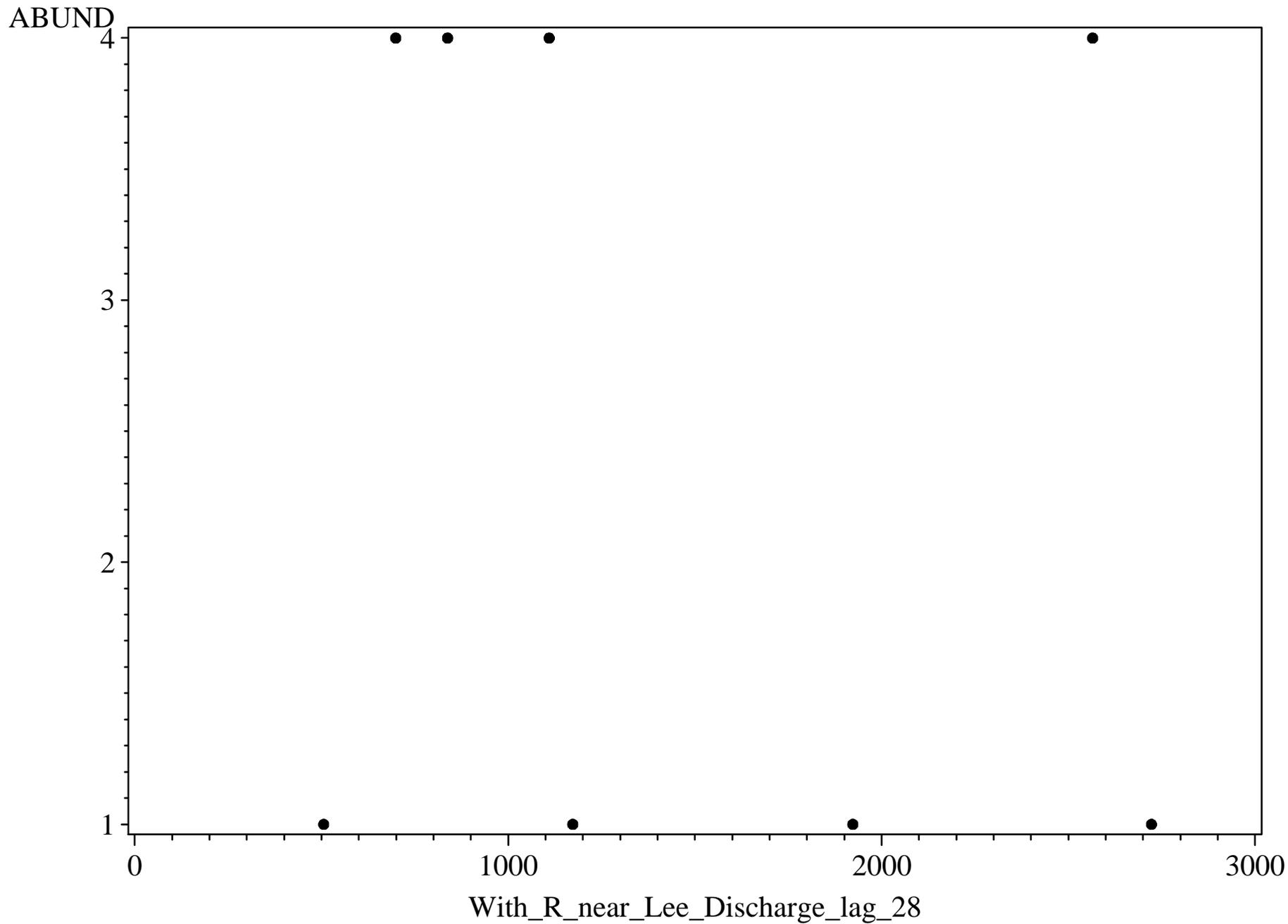


Functional Feeding Group Abundance vs. 28 Day Lag Withlacoochee Flow (at Lee)

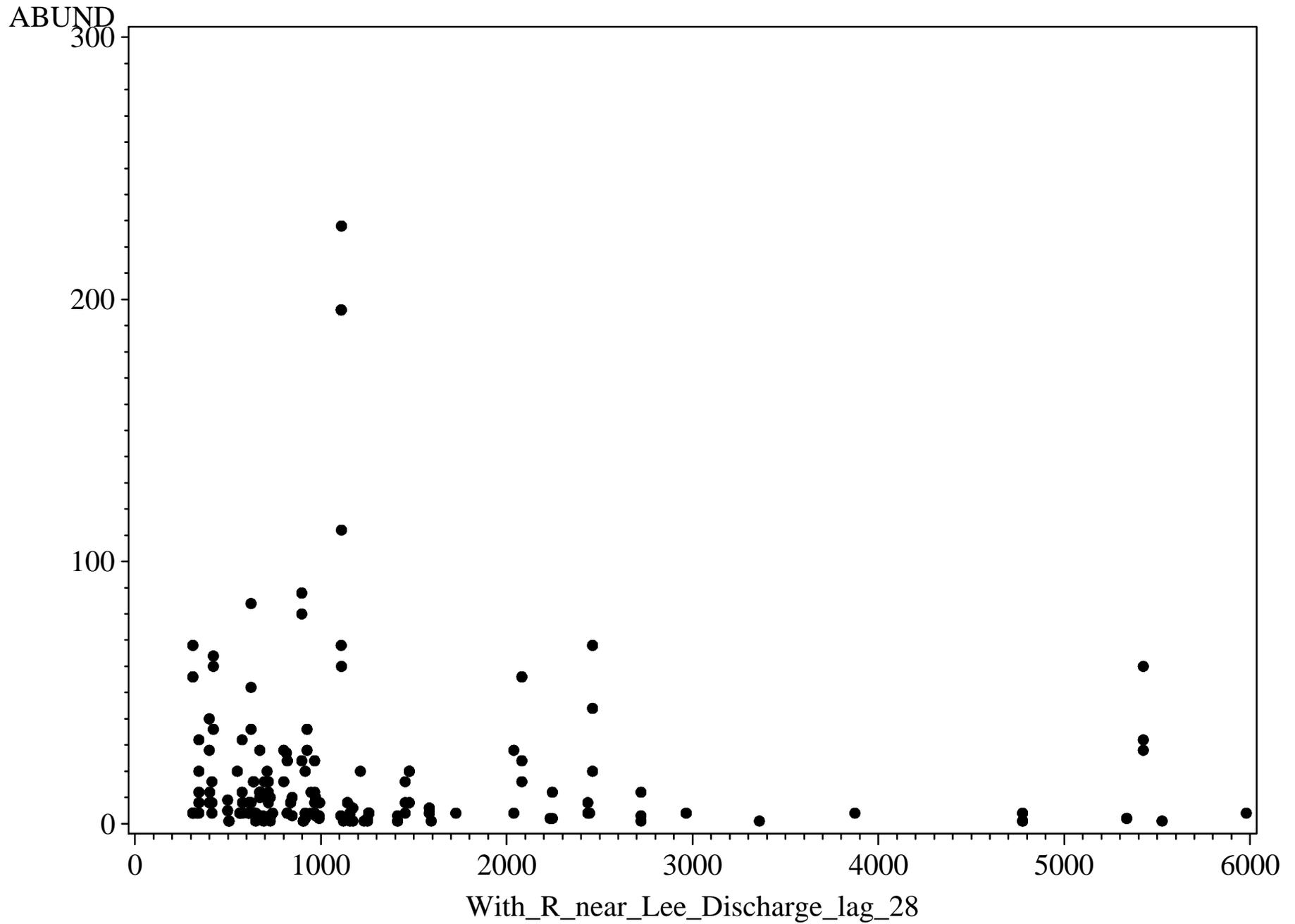
All Collectors (filter-suspension feeding + gatherer-deposit feeding) Invertebrates



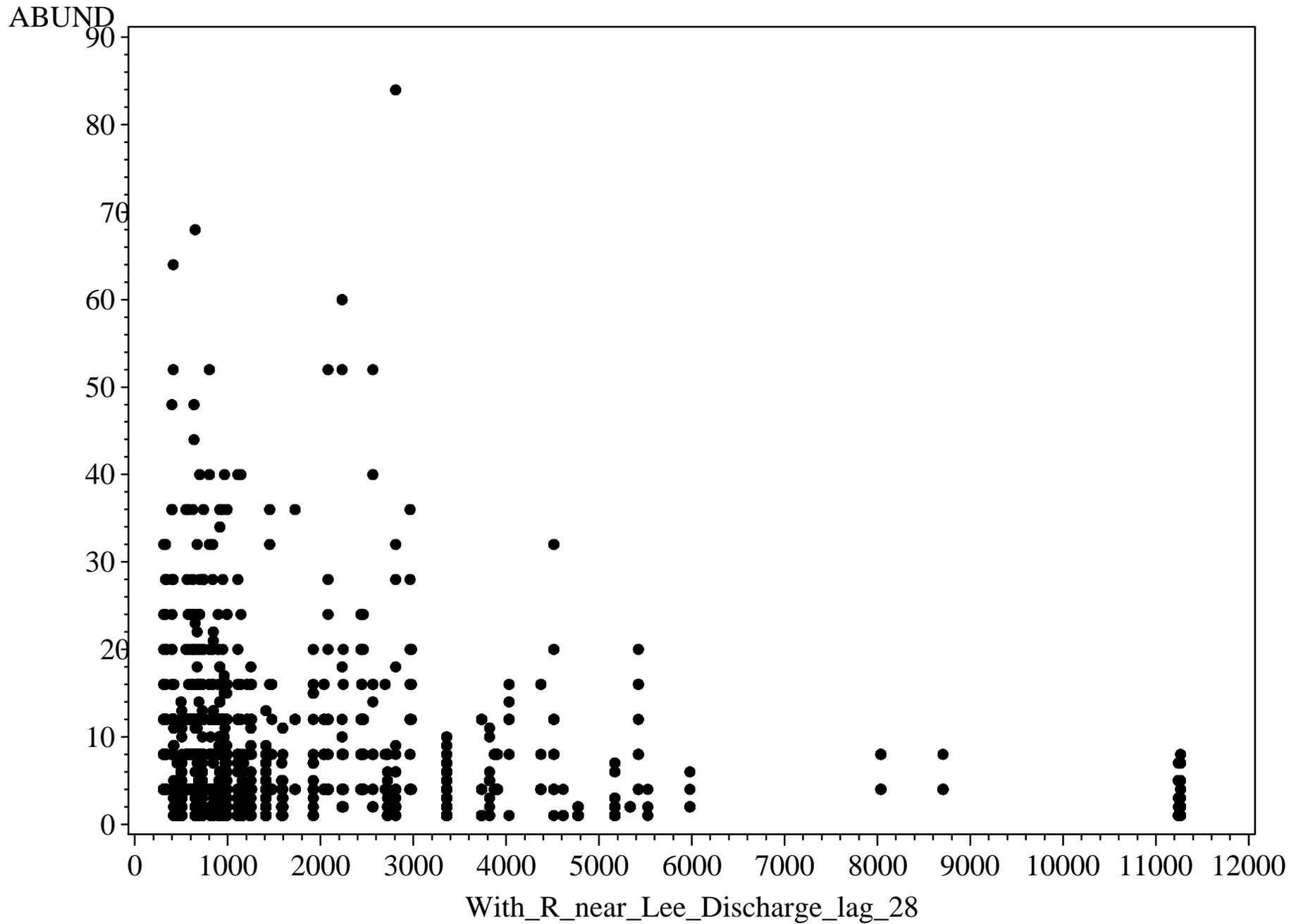
Functional Feeding Group Abundance vs. 28 Day Lag Withlacoochee Flow (at Lee) Parasitic Invertebrates



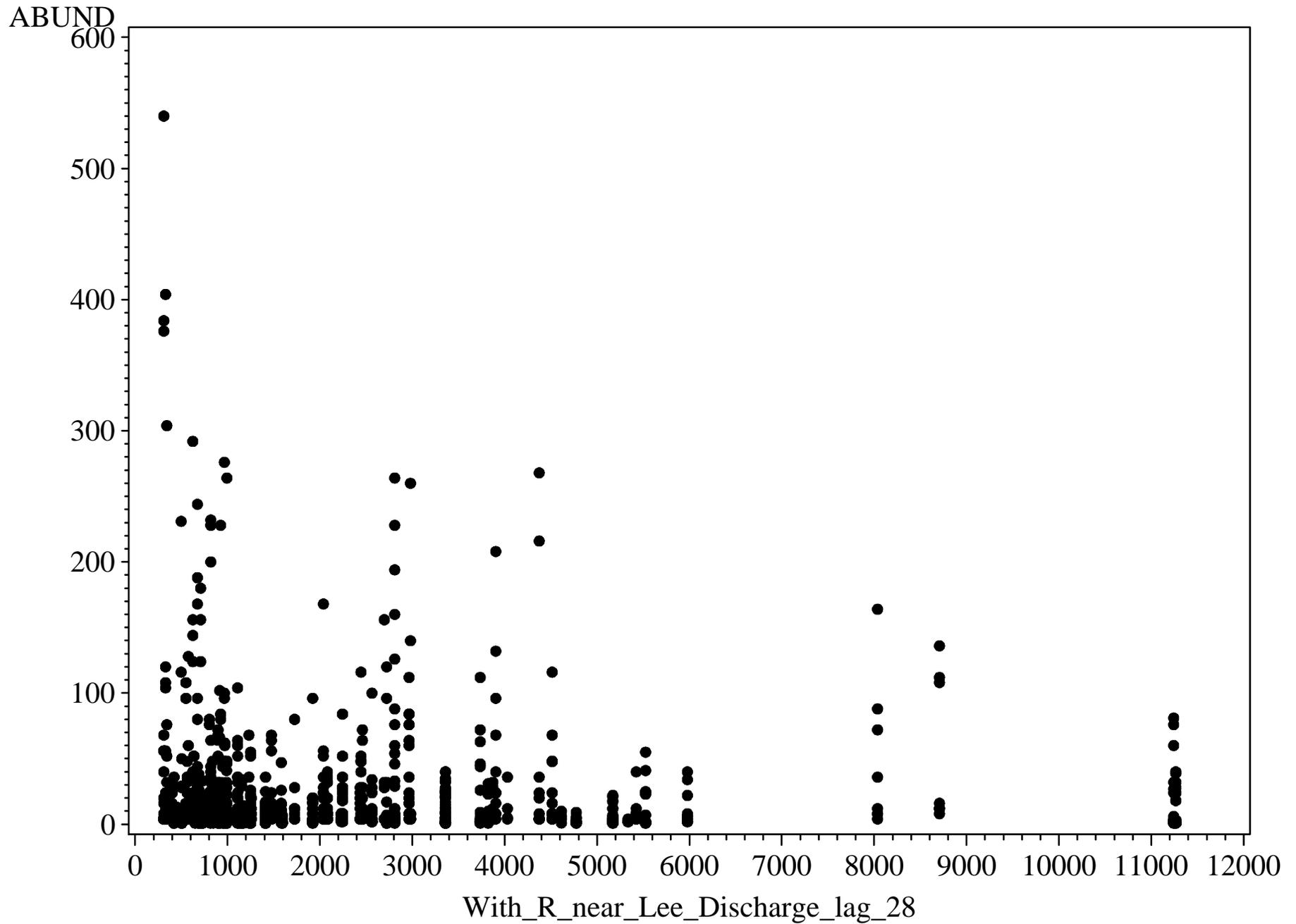
Functional Feeding Group Abundance vs. 28 Day Lag Withlacoochee Flow (at Lee)
Plant Piercing Invertebrates



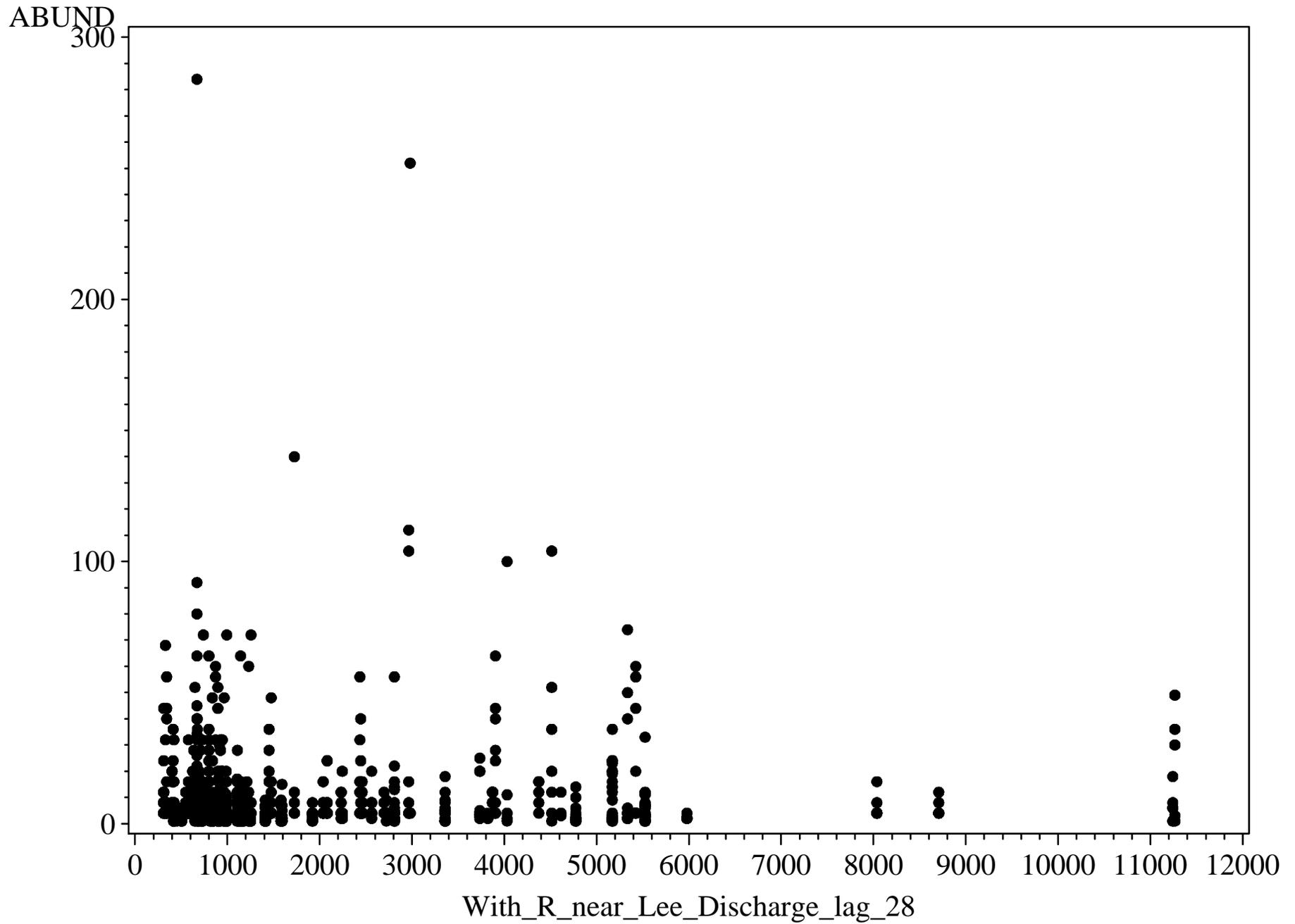
Functional Feeding Group Abundance vs. 28 Day Lag Withlacoochee Flow (at Lee)
Predatory-Carnivorous Invertebrates



Functional Feeding Group Abundance vs. 28 Day Lag Withlacoochee Flow (at Lee) Scraper Invertebrates



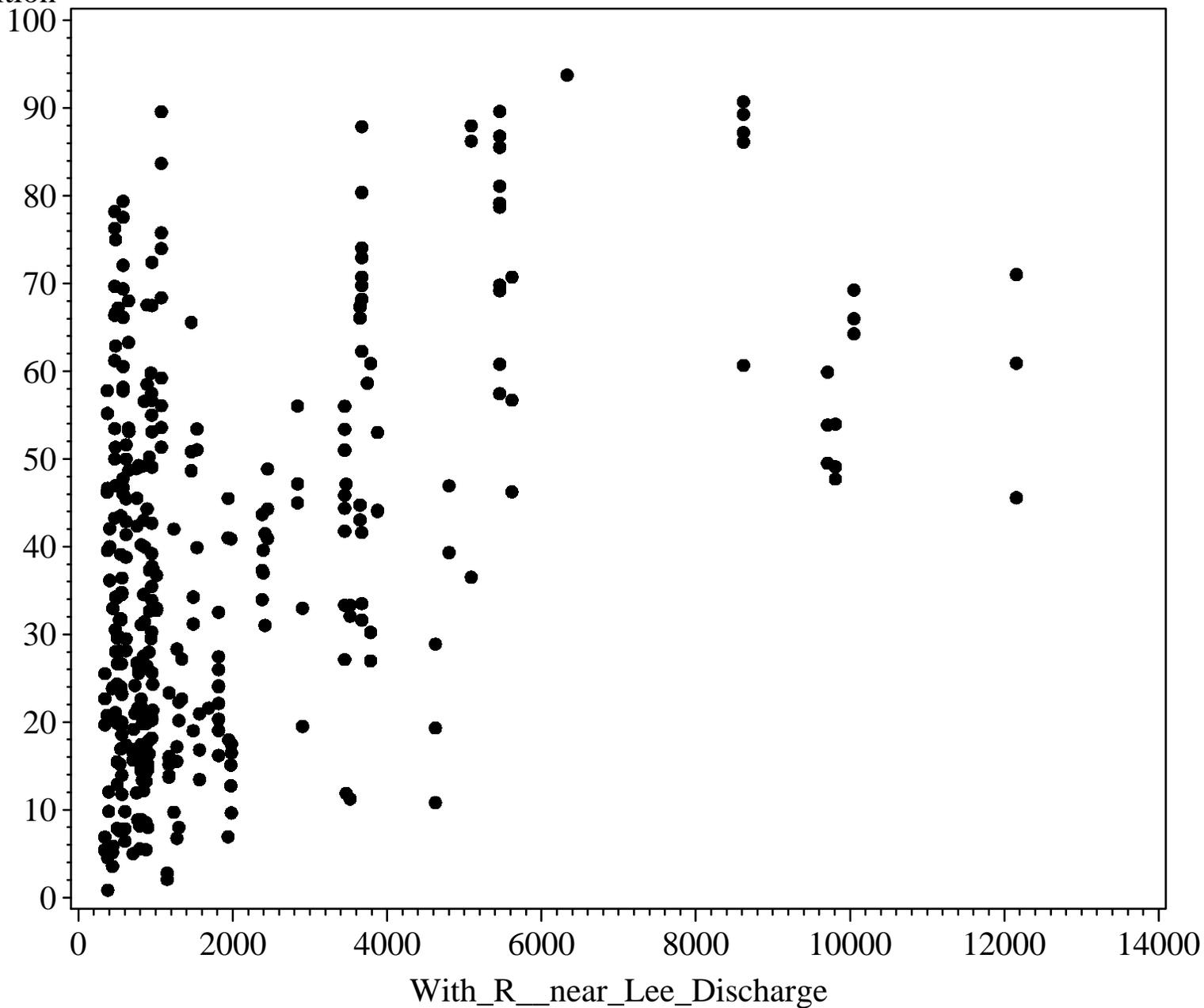
Functional Feeding Group Abundance vs. 28 Day Lag Withlacoochee Flow (at Lee)
Shredder Invertebrates



APPENDIX C7

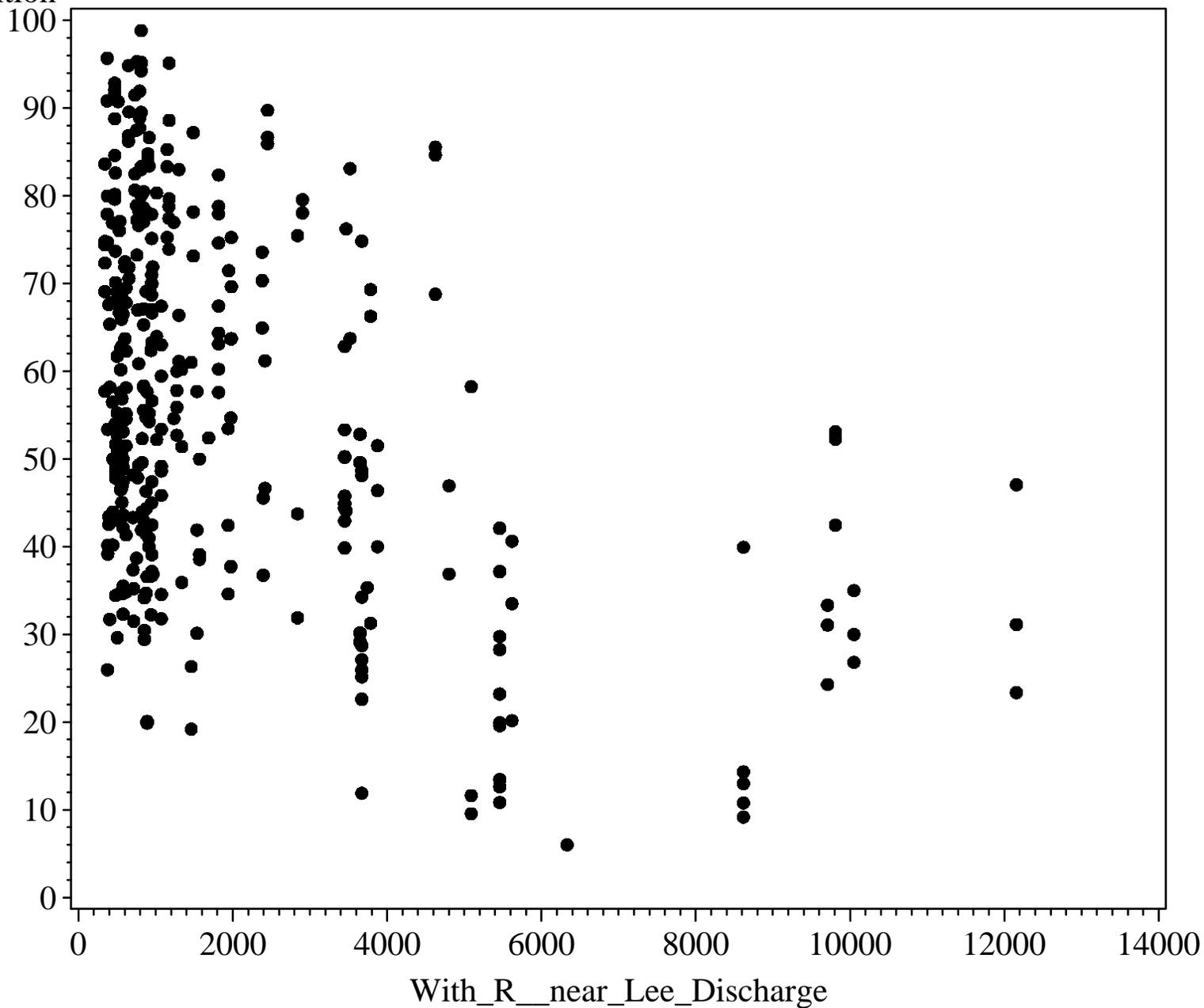
Percent Composition of Functional Feeding Group vs. Estimated Withlacoochee Flow (at Lee)
Collector-filter (suspension feeding) Invertebrates

Percent Composition



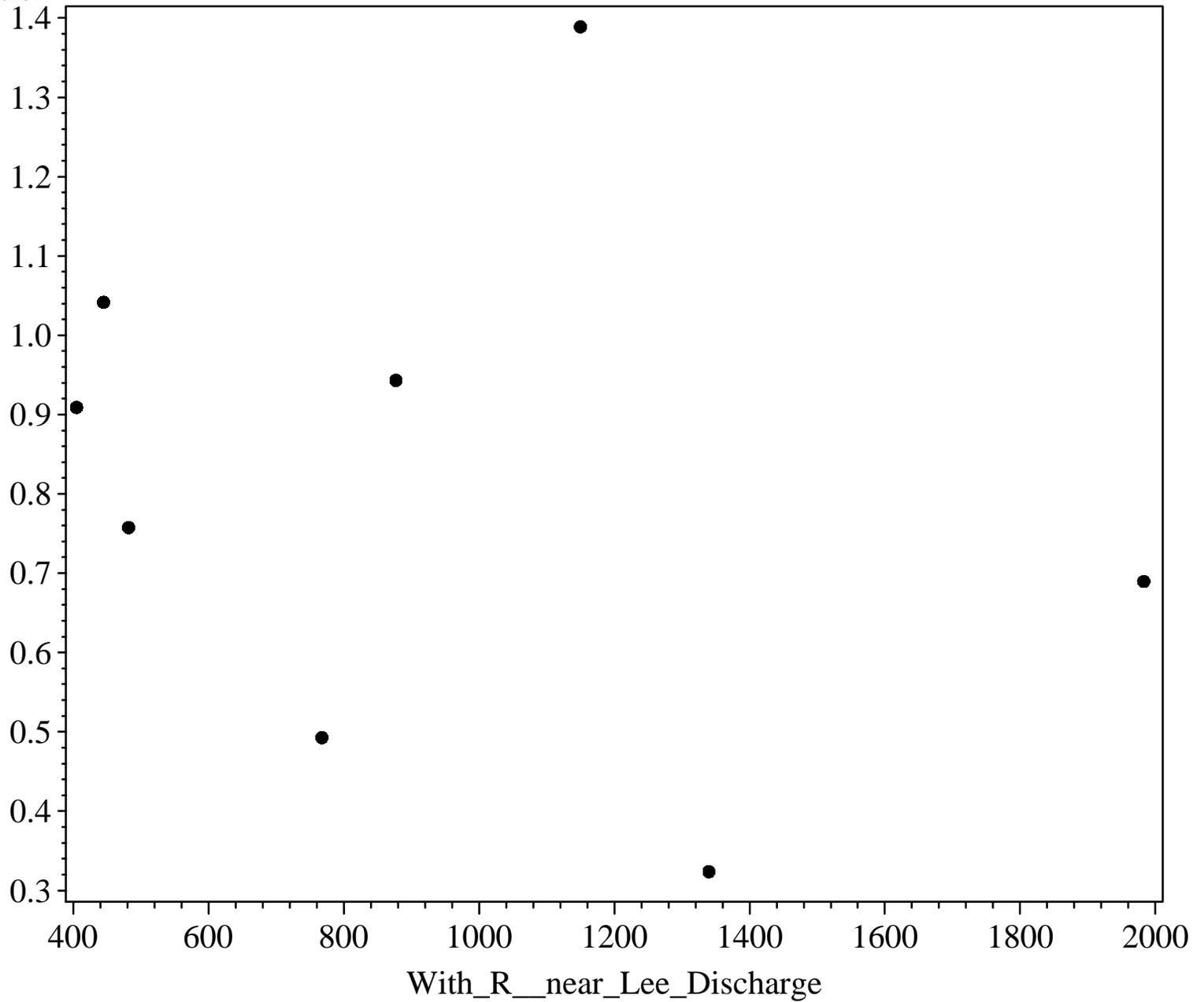
Percent Composition of Functional Feeding Group vs. Estimated Withlacoochee Flow (at Lee)
Collector-gatherer (deposit feeding) Invertebrates

Percent Composition



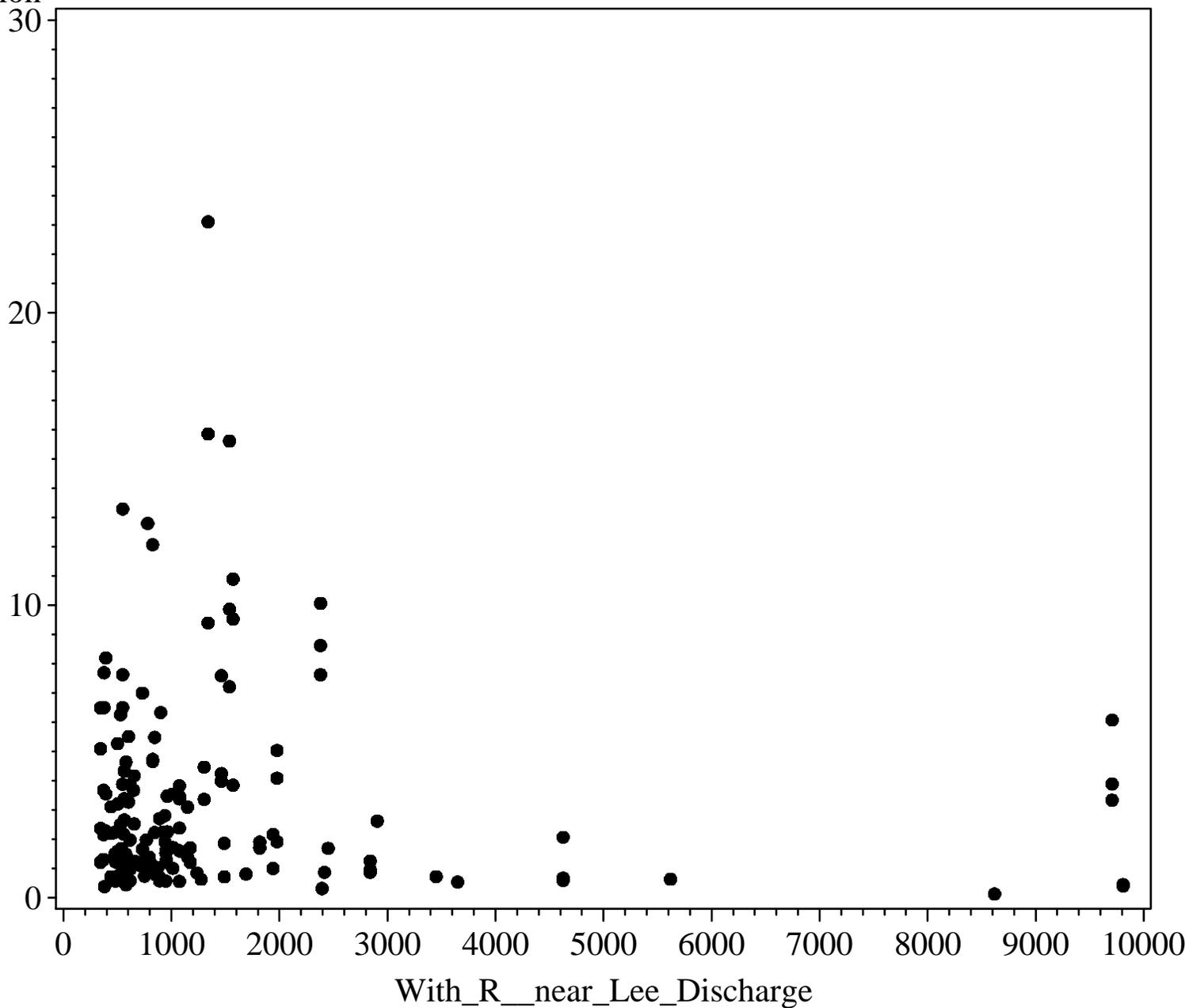
Percent Composition of Functional Feeding Group vs. Estimated Withlacoochee Flow (at Lee) Parasitic Invertebrates

Percent Composition



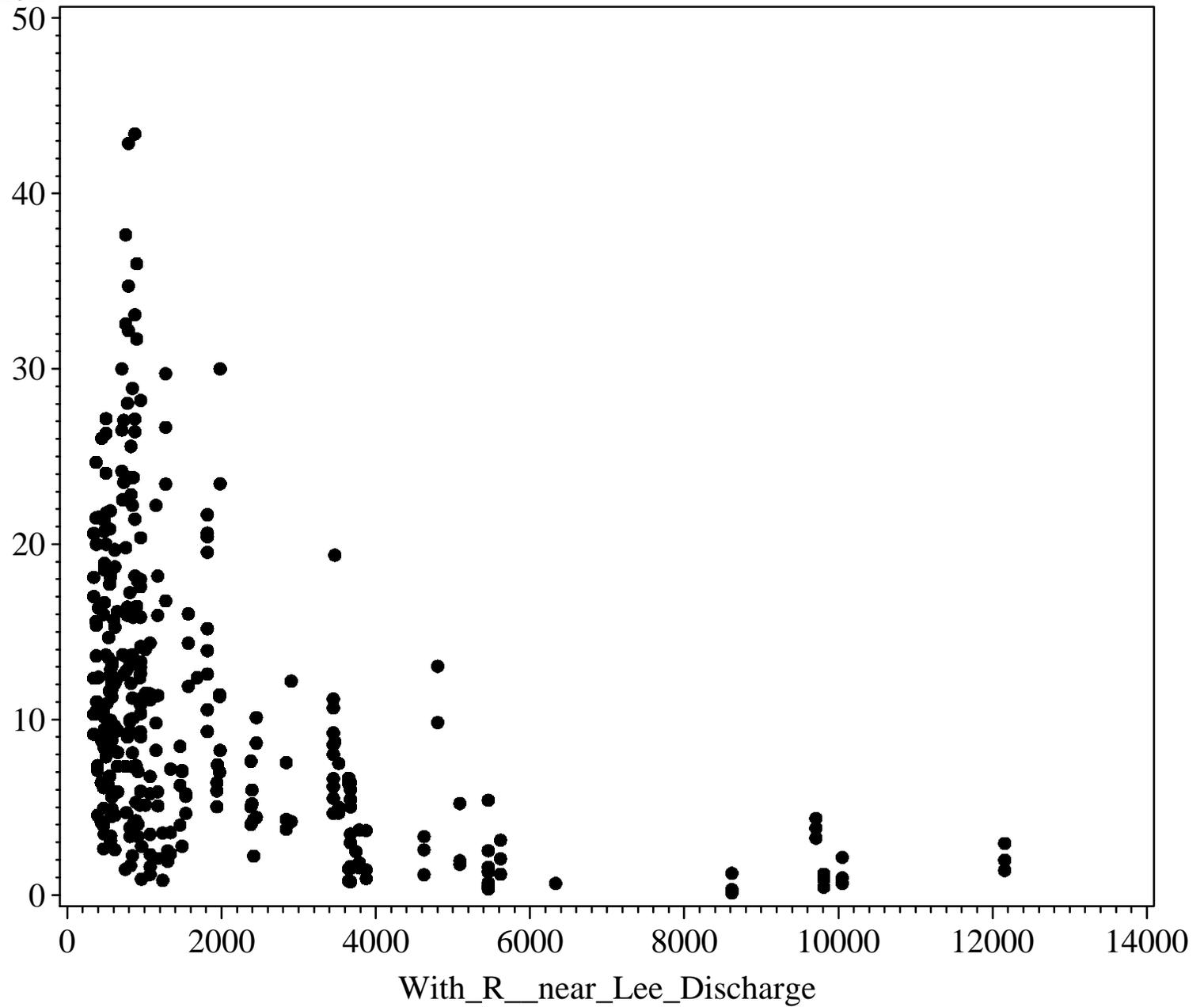
Percent Composition of Functional Feeding Group vs. Estimated Withlacoochee Flow (at Lee) Plant Piercing Invertebrates

Percent Composition



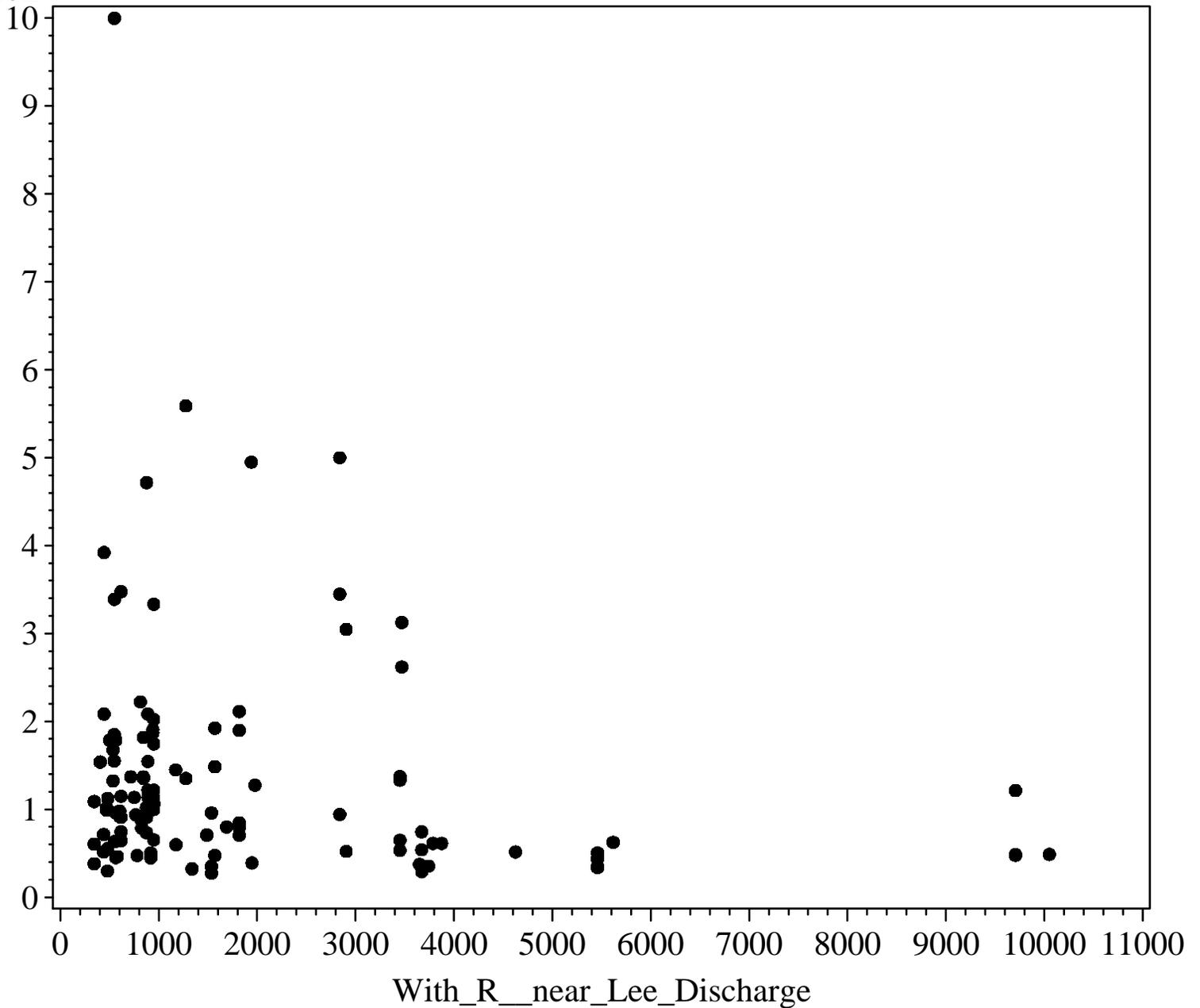
Percent Composition of Functional Feeding Group vs. Estimated Withlacoochee Flow (at Lee) Predatory-Carnivorous Invertebrates

Percent Composition



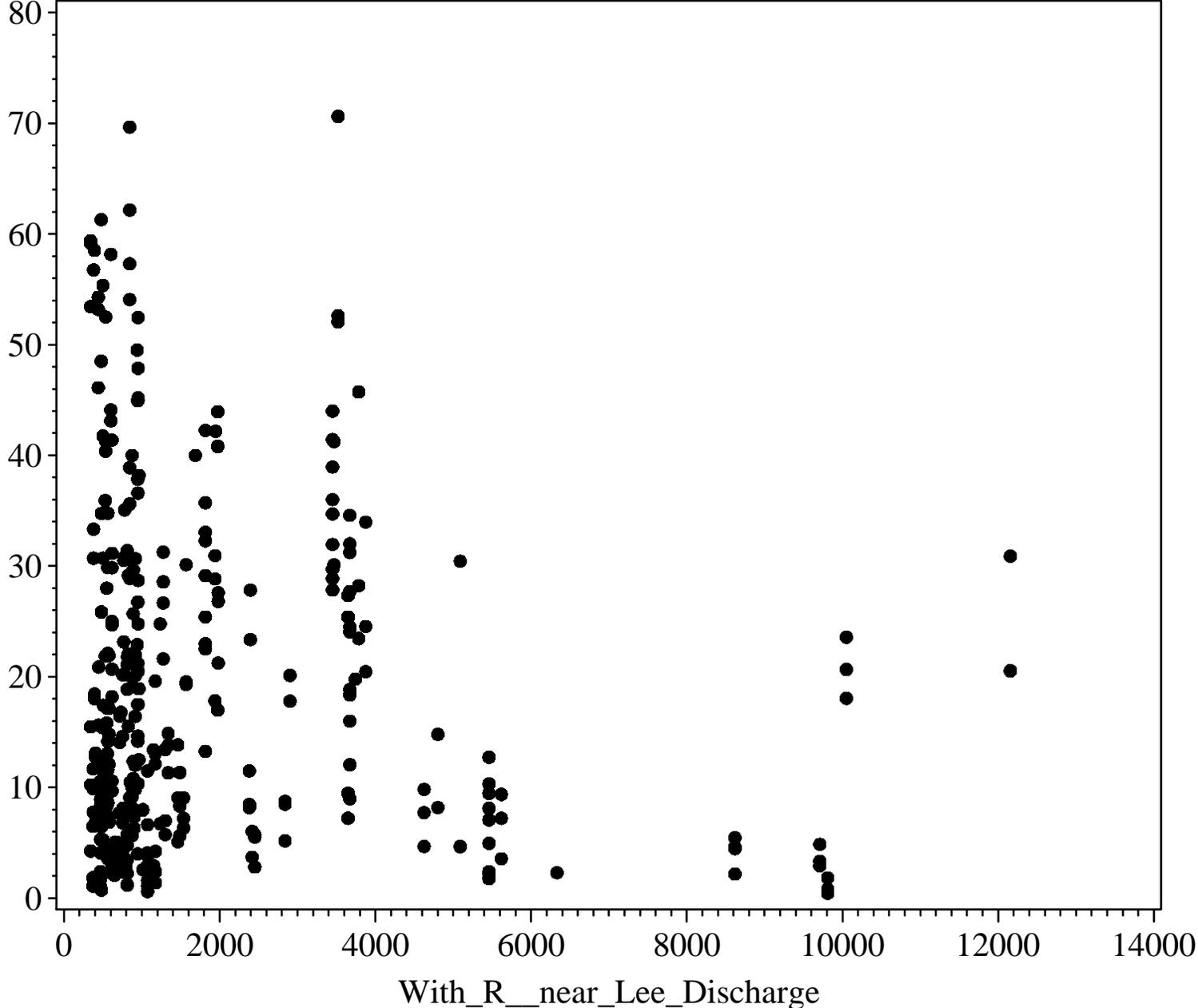
Percent Composition of Functional Feeding Group vs. Estimated Withlacoochee Flow (at Lee) Scavenger Invertebrates

Percent Composition



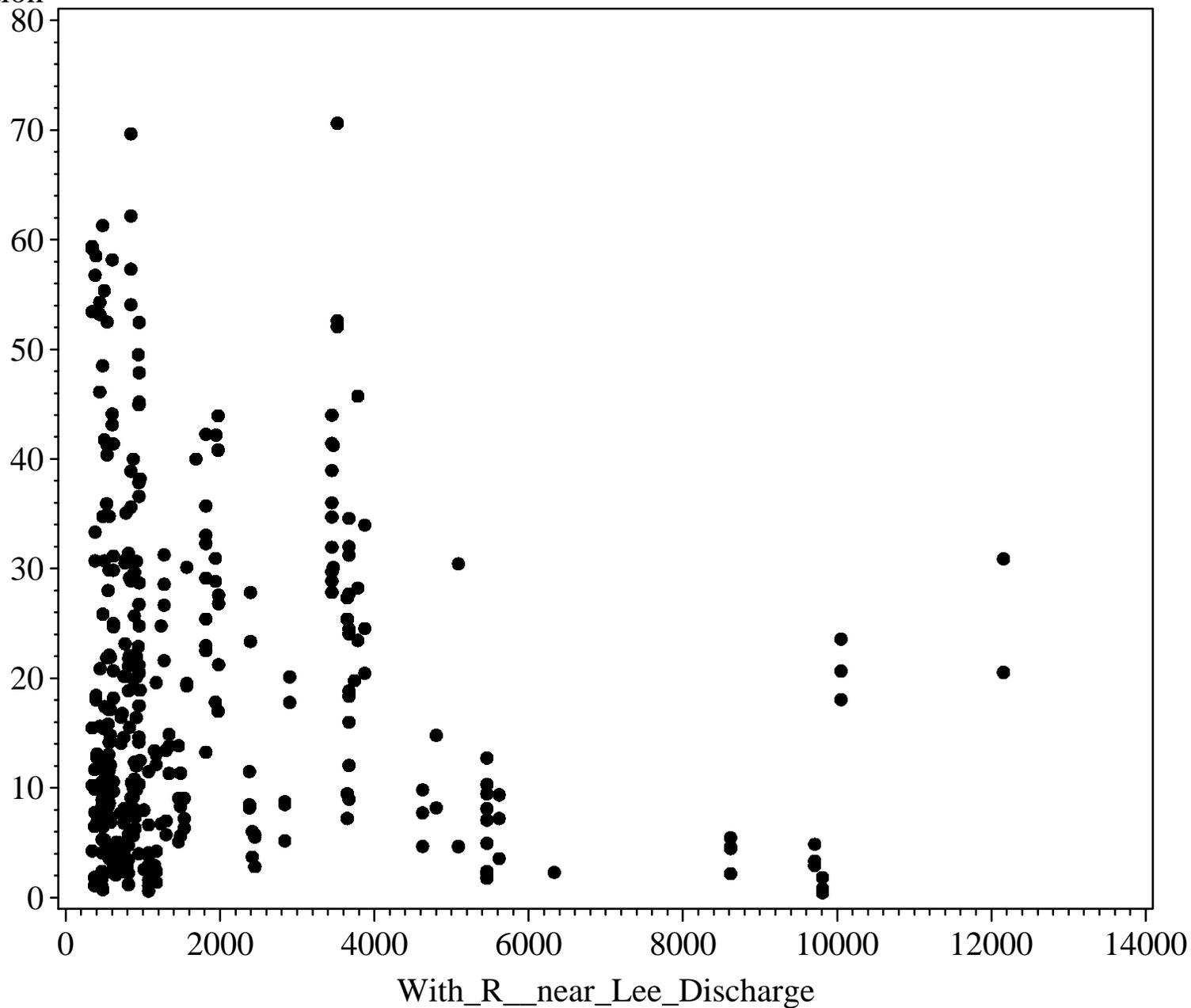
Percent Composition of Functional Feeding Group vs. Estimated Withlacoochee Flow (at Lee) Scraper Invertebrates

Percent Composition

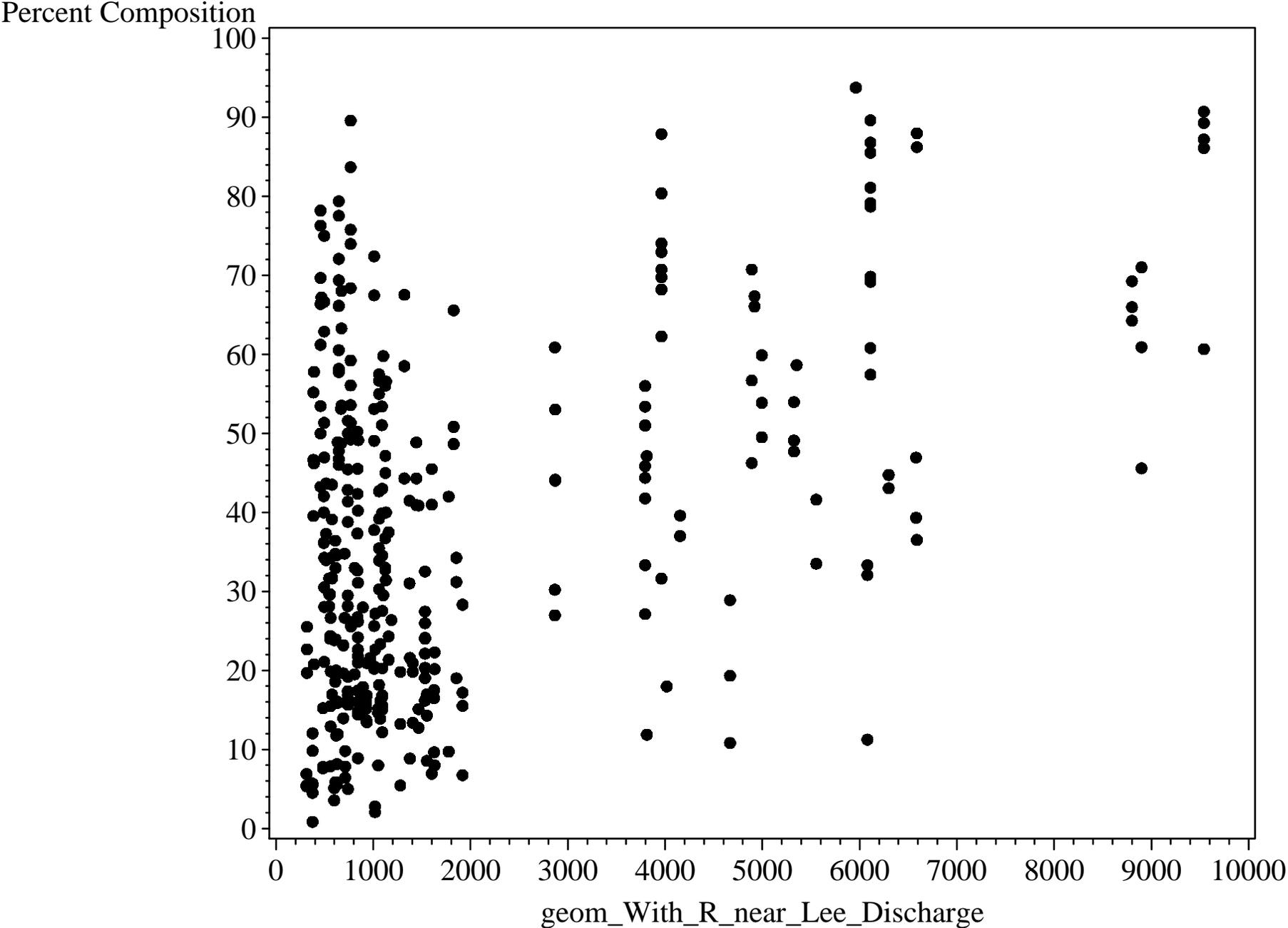


Percent Composition of Functional Feeding Group vs. Estimated Withlacoochee Flow (at Lee) Shredder Invertebrates

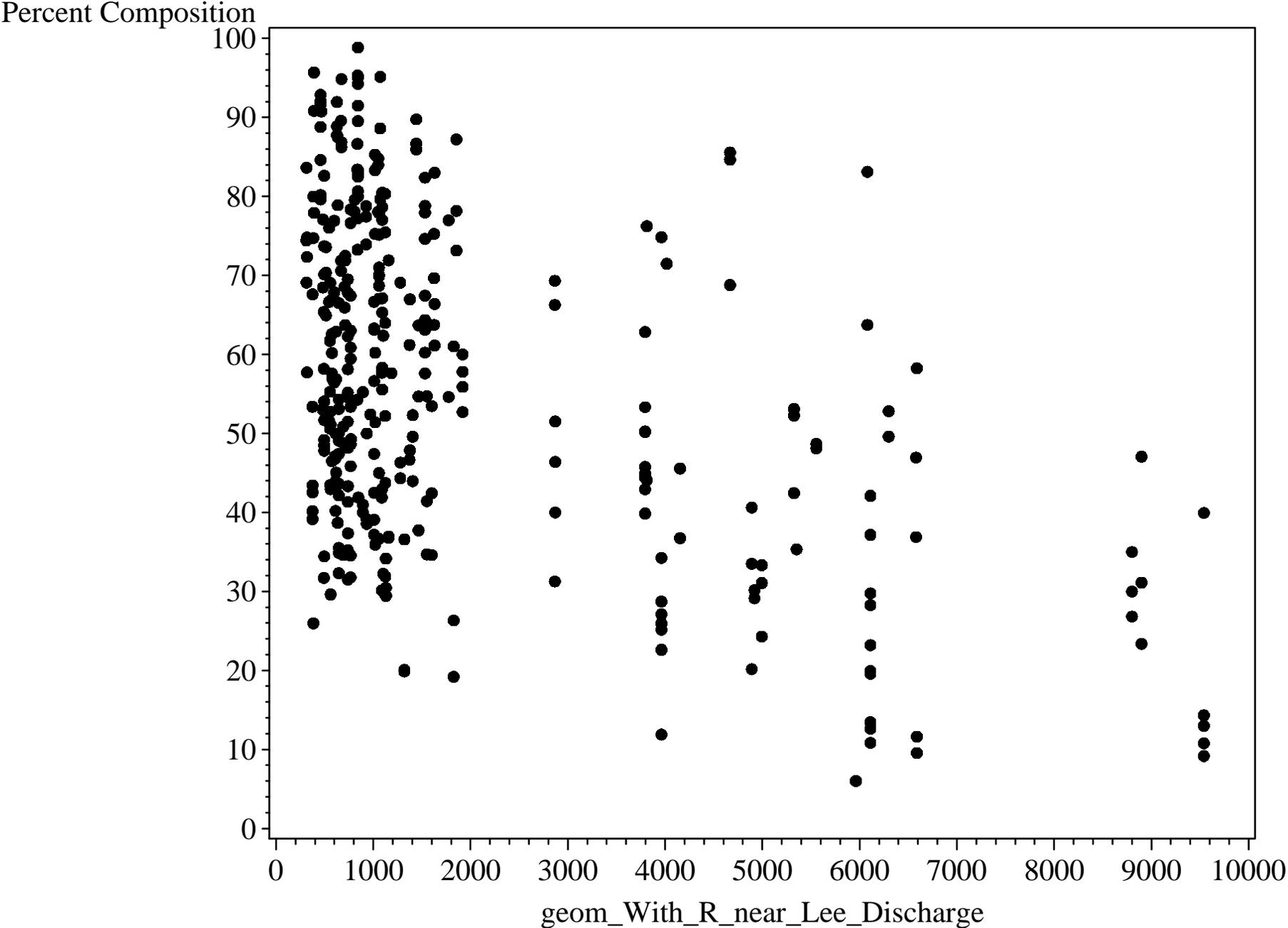
Percent Composition



Percent Composition of Functional Feeding Group vs. 30 Day Geometric Mean Withlacoochee Flow (at Lee)
Collector-filter (suspension feeding) Invertebrates

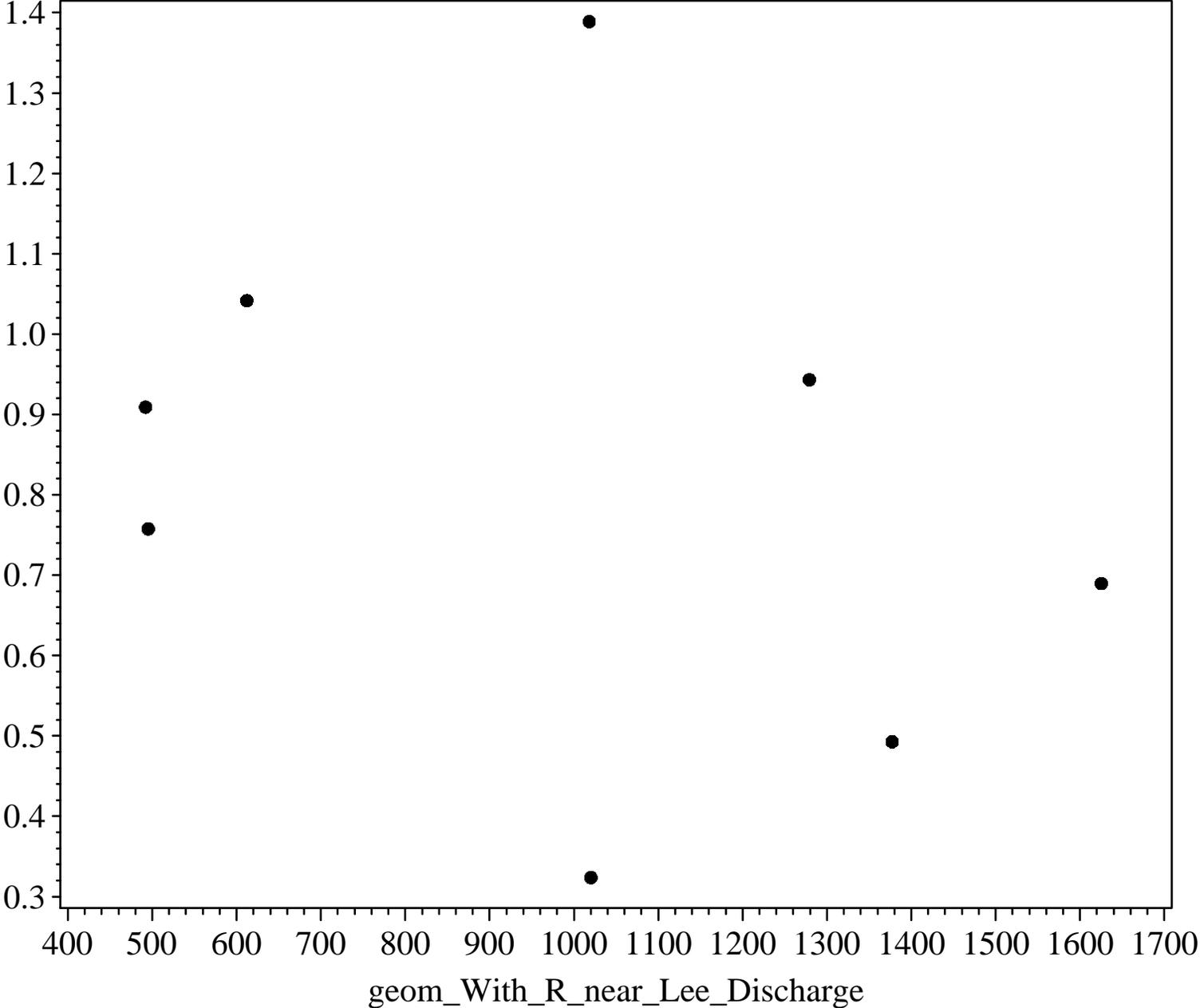


Percent Composition of Functional Feeding Group vs. 30 Day Geometric Mean Withlacoochee Flow (at Lee)
Collector-gatherer (deposit feeding) Invertebrates



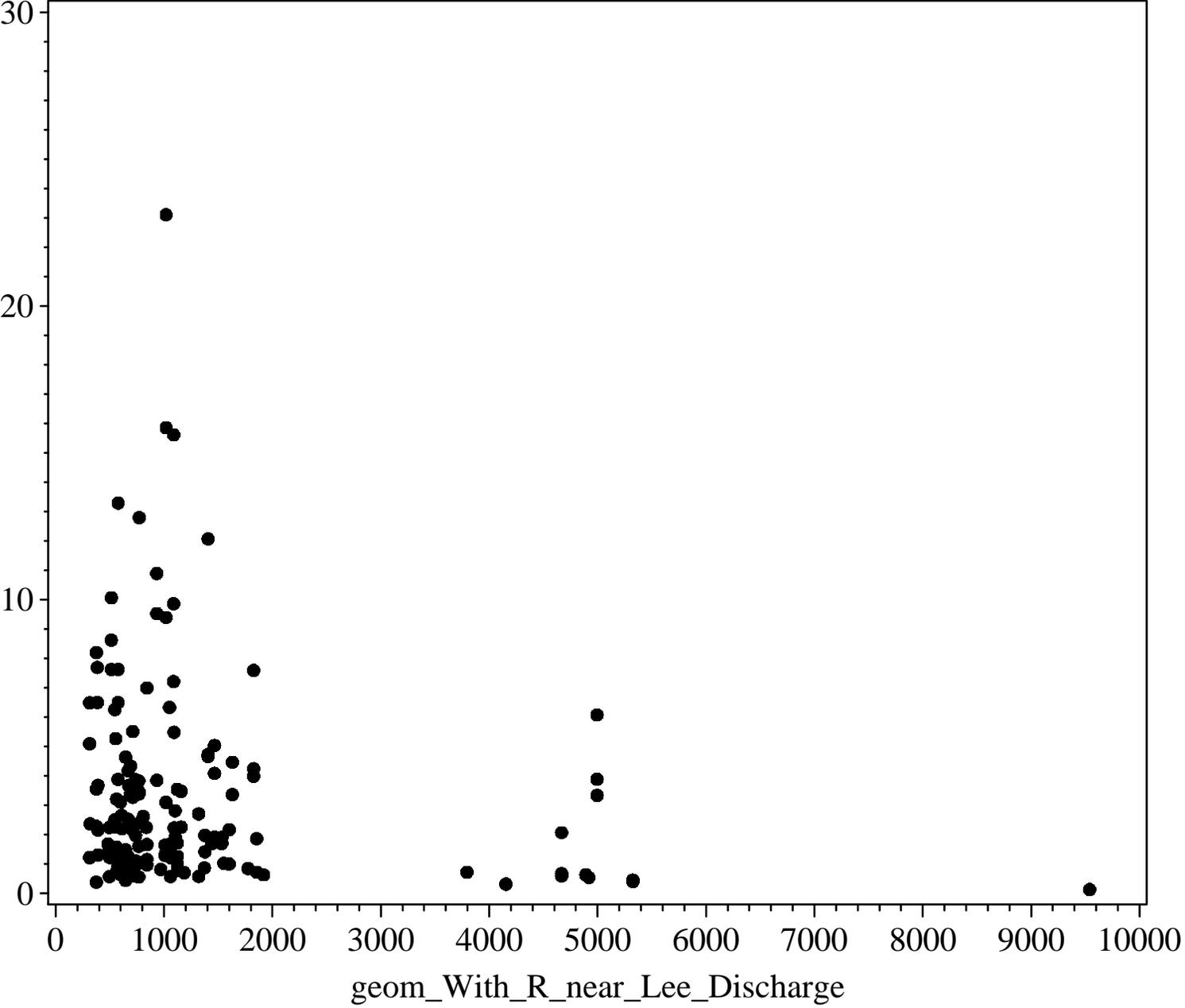
Percent Composition of Functional Feeding Group vs. 30 Day Geometric Mean Withlacoochee Flow (at Lee)
Parasitic Invertebrates

Percent Composition



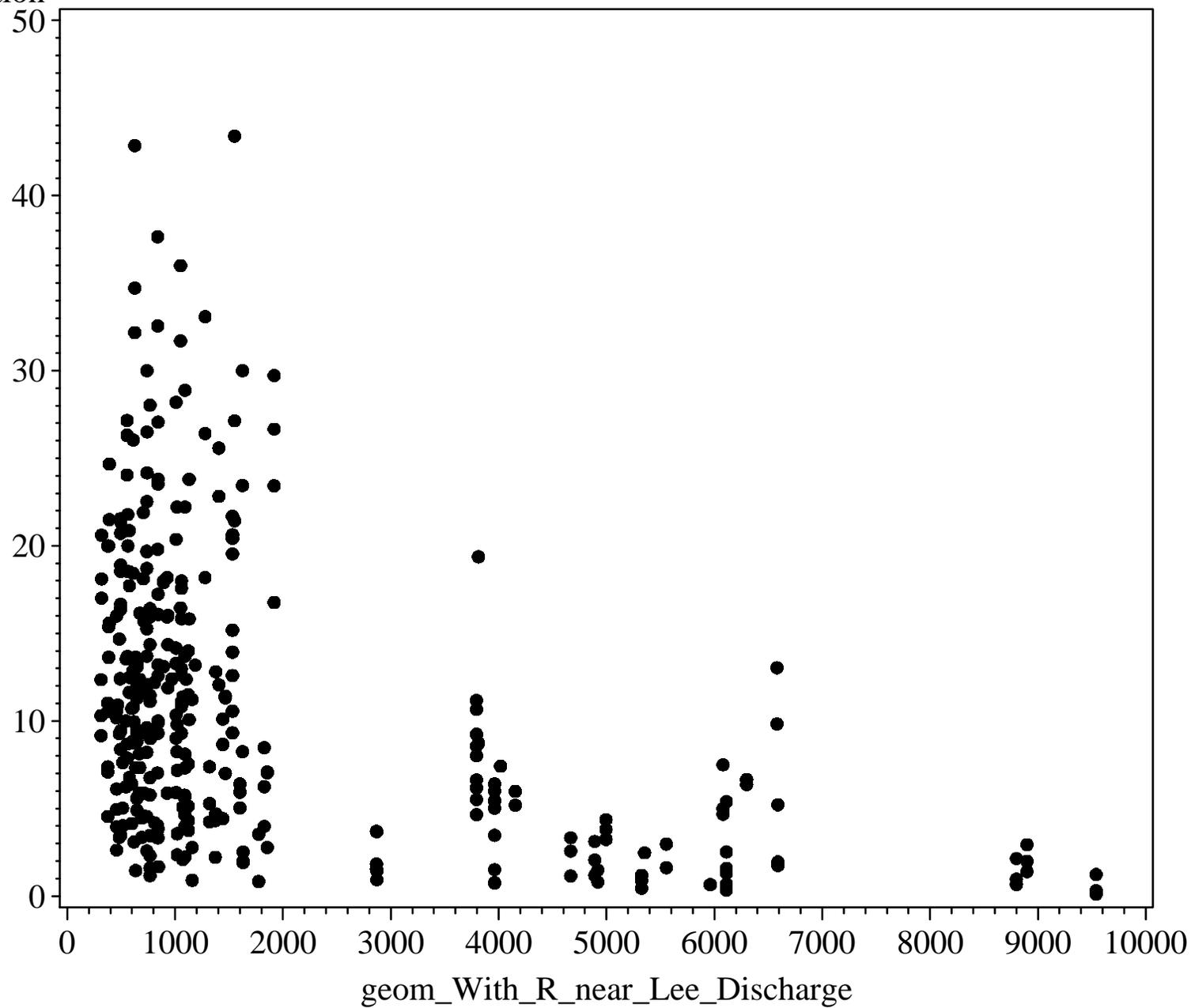
Percent Composition of Functional Feeding Group vs. 30 Day Geometric Mean Withlacoochee Flow (at Lee)
Plant Piercing Invertebrates

Percent Composition



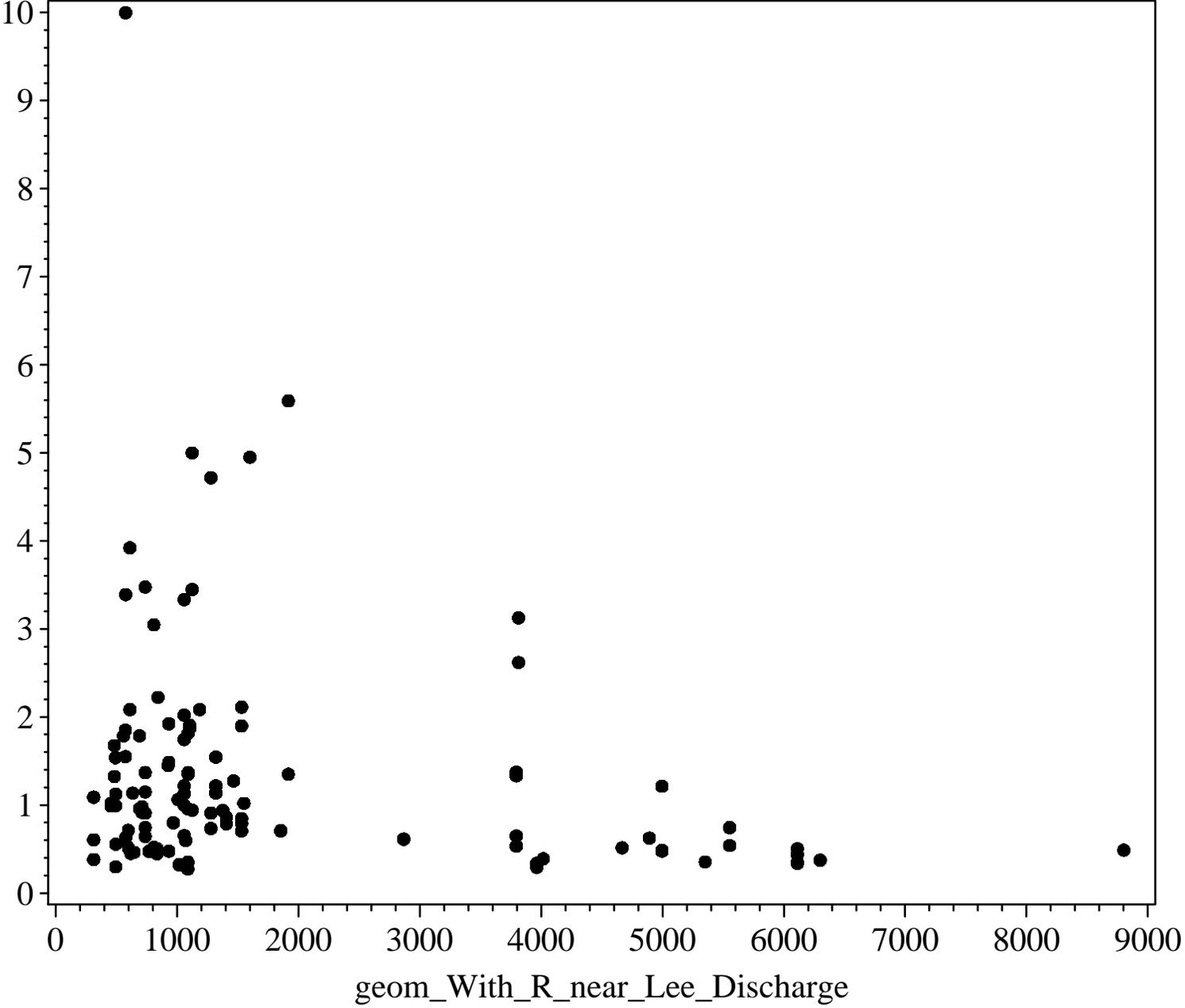
Percent Composition of Functional Feeding Group vs. 30 Day Geometric Mean Withlacoochee Flow (at Lee)
Predatory-Carnivorous Invertebrates

Percent Composition

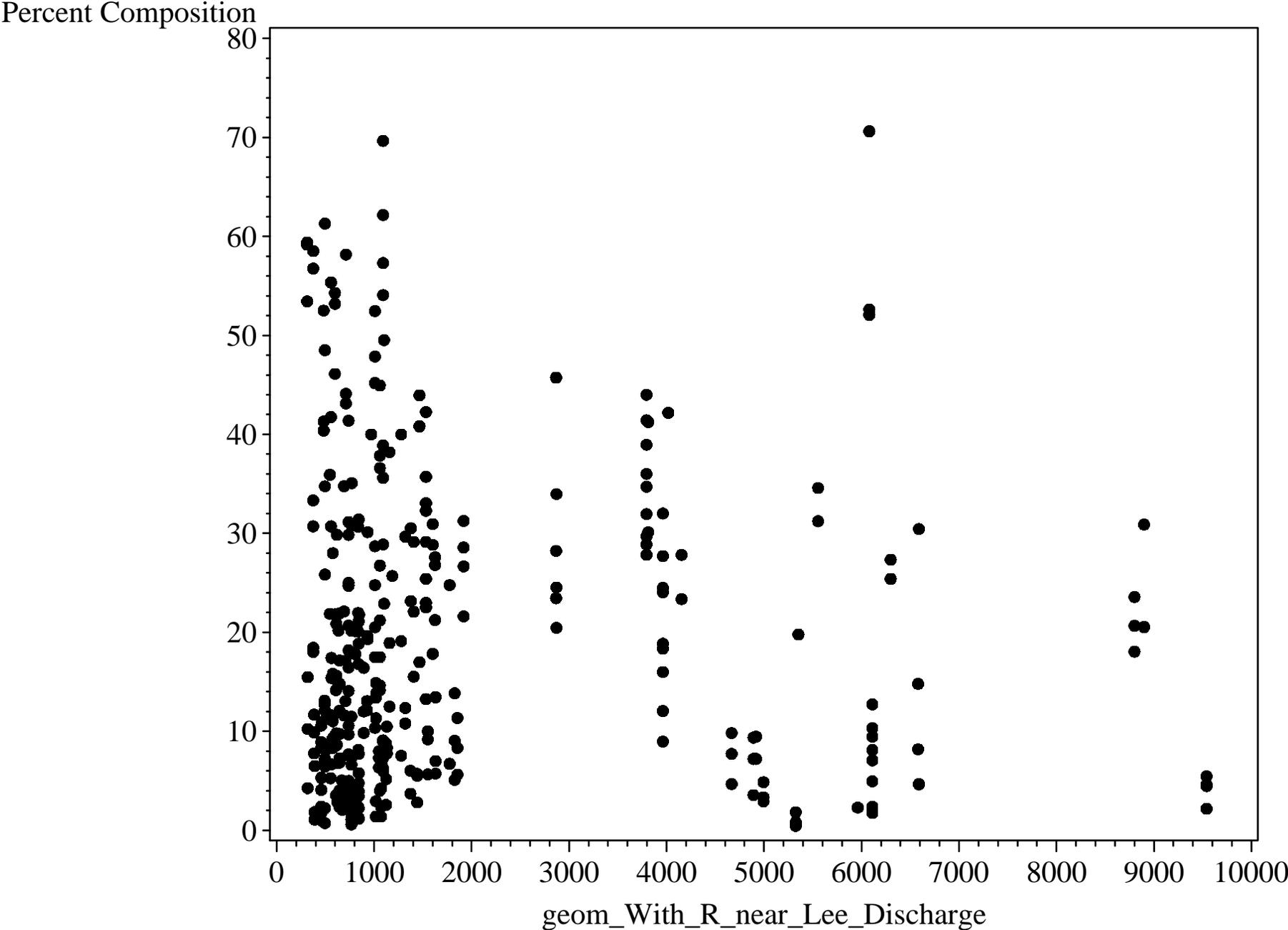


Percent Composition of Functional Feeding Group vs. 30 Day Geometric Mean Withlacoochee Flow (at Lee)
Scavenger Invertebrates

Percent Composition

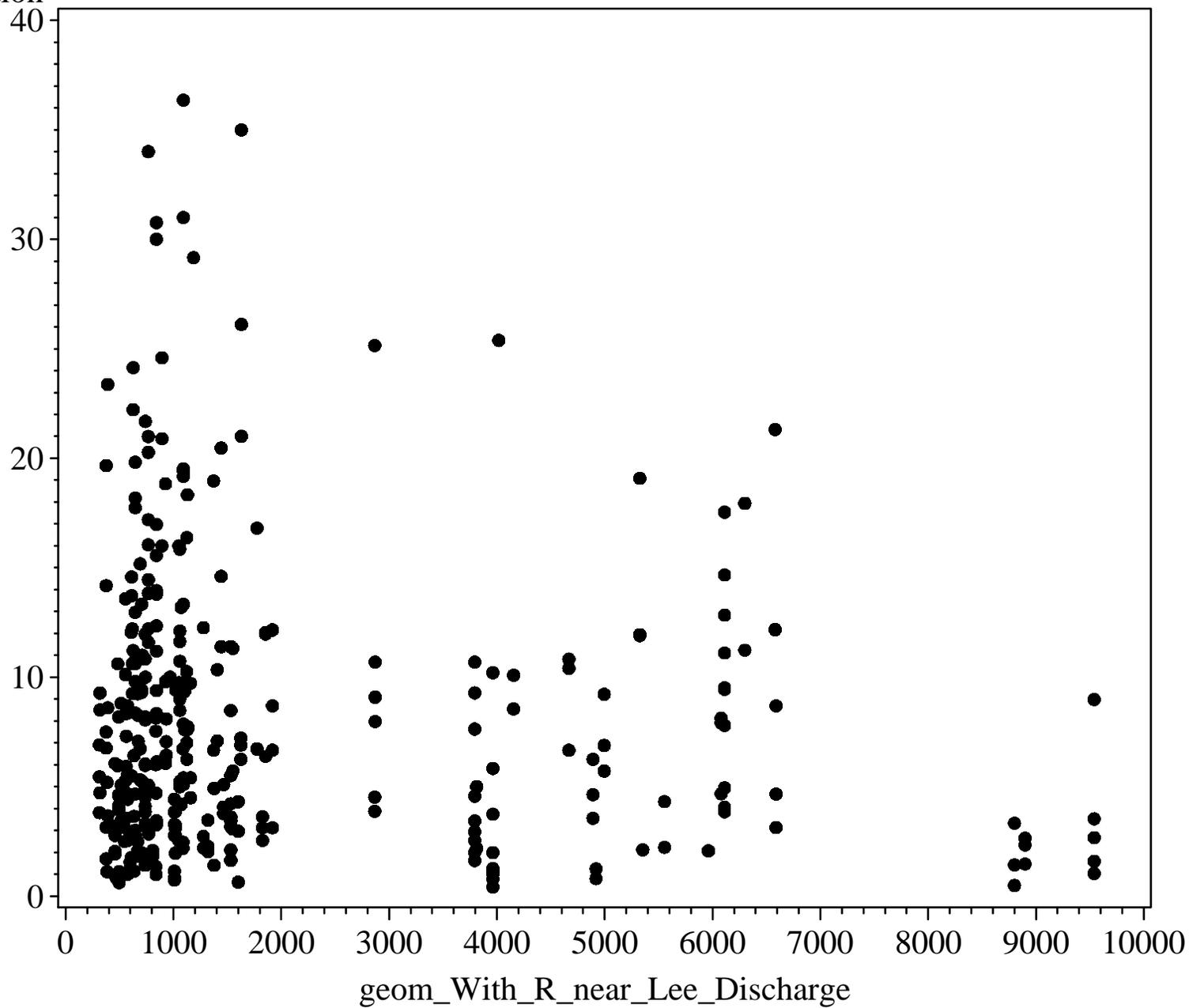


Percent Composition of Functional Feeding Group vs. 30 Day Geometric Mean Withlacoochee Flow (at Lee)
Scraper Invertebrates

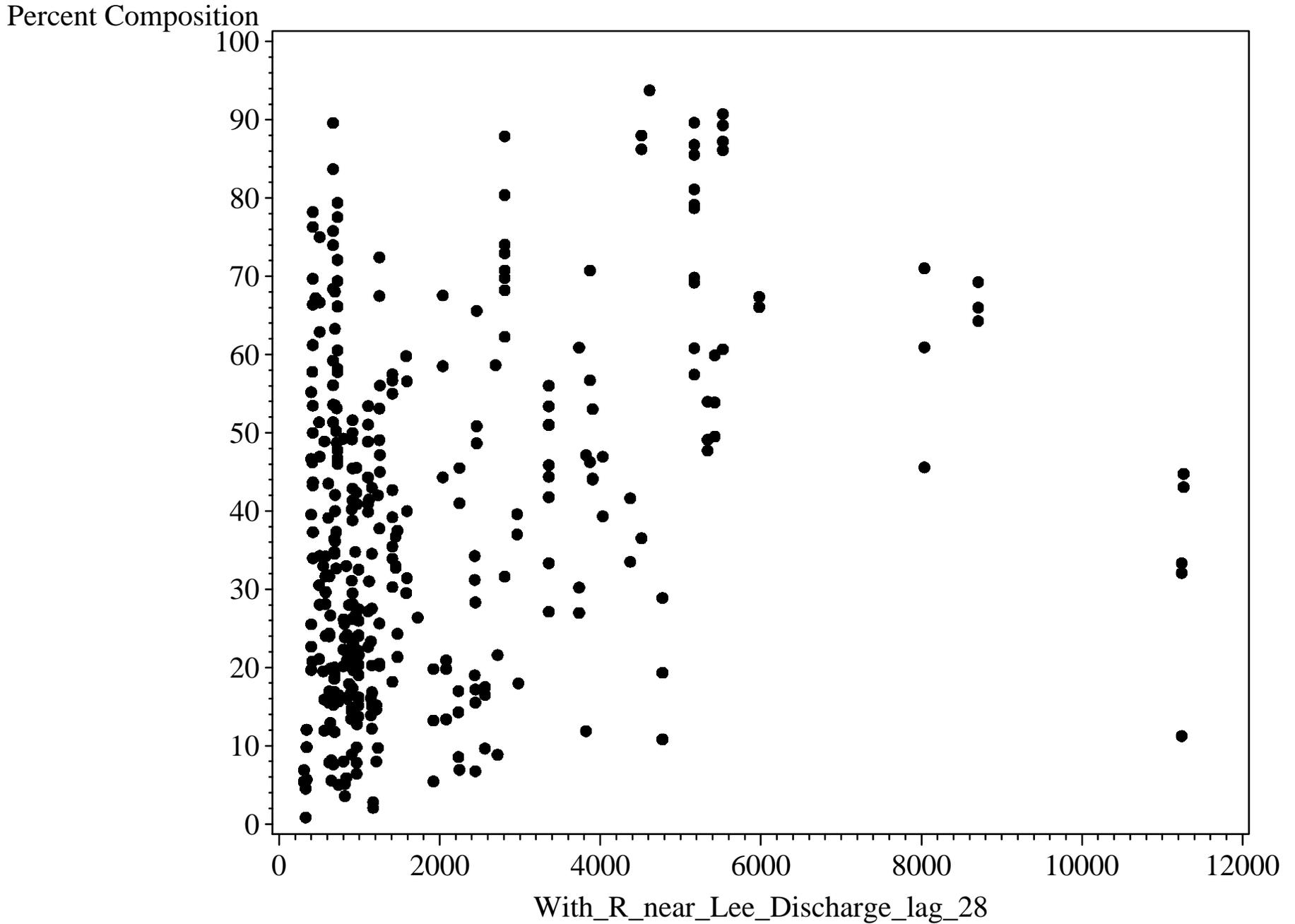


Percent Composition of Functional Feeding Group vs. 30 Day Geometric Mean Withlacoochee Flow (at Lee)
Shredder Invertebrates

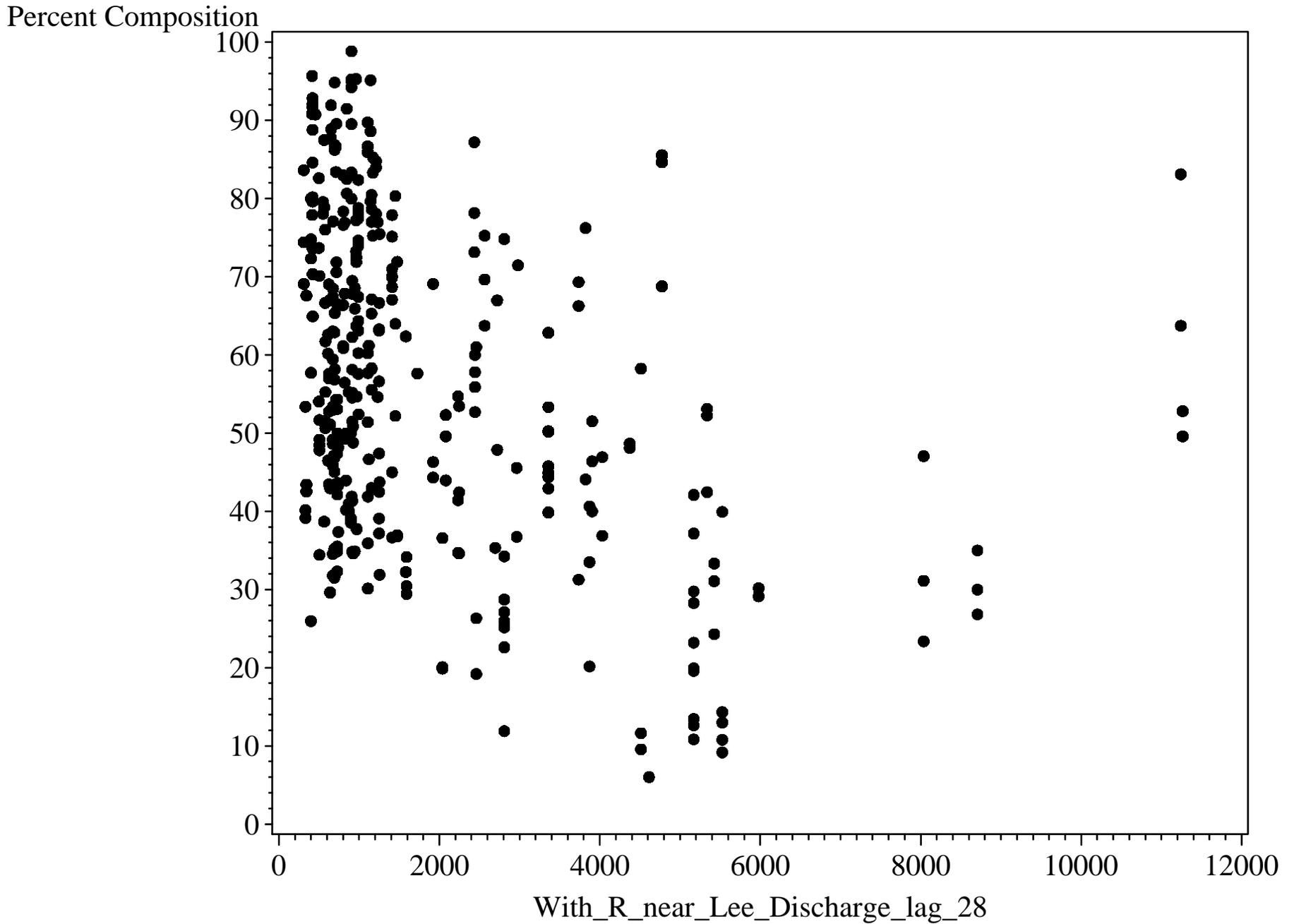
Percent Composition



Percent Composition of Functional Feeding Group vs. 28 Day Lag Withlacoochee Flow (at Lee)
Collector-filter (suspension feeding) Invertebrates

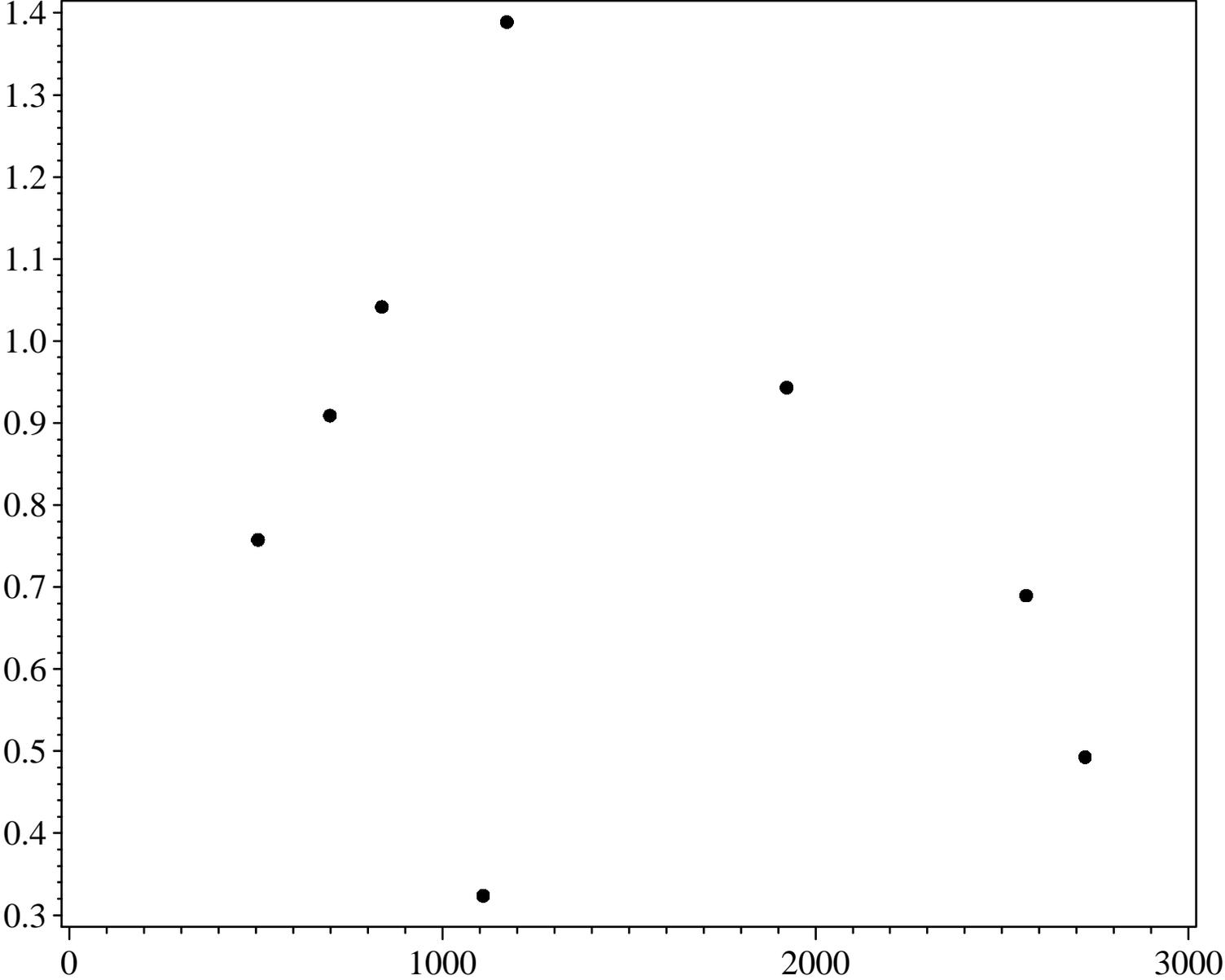


Percent Composition of Functional Feeding Group vs. 28 Day Lag Withlacoochee Flow (at Lee)
Collector-gatherer (deposit feeding) Invertebrates



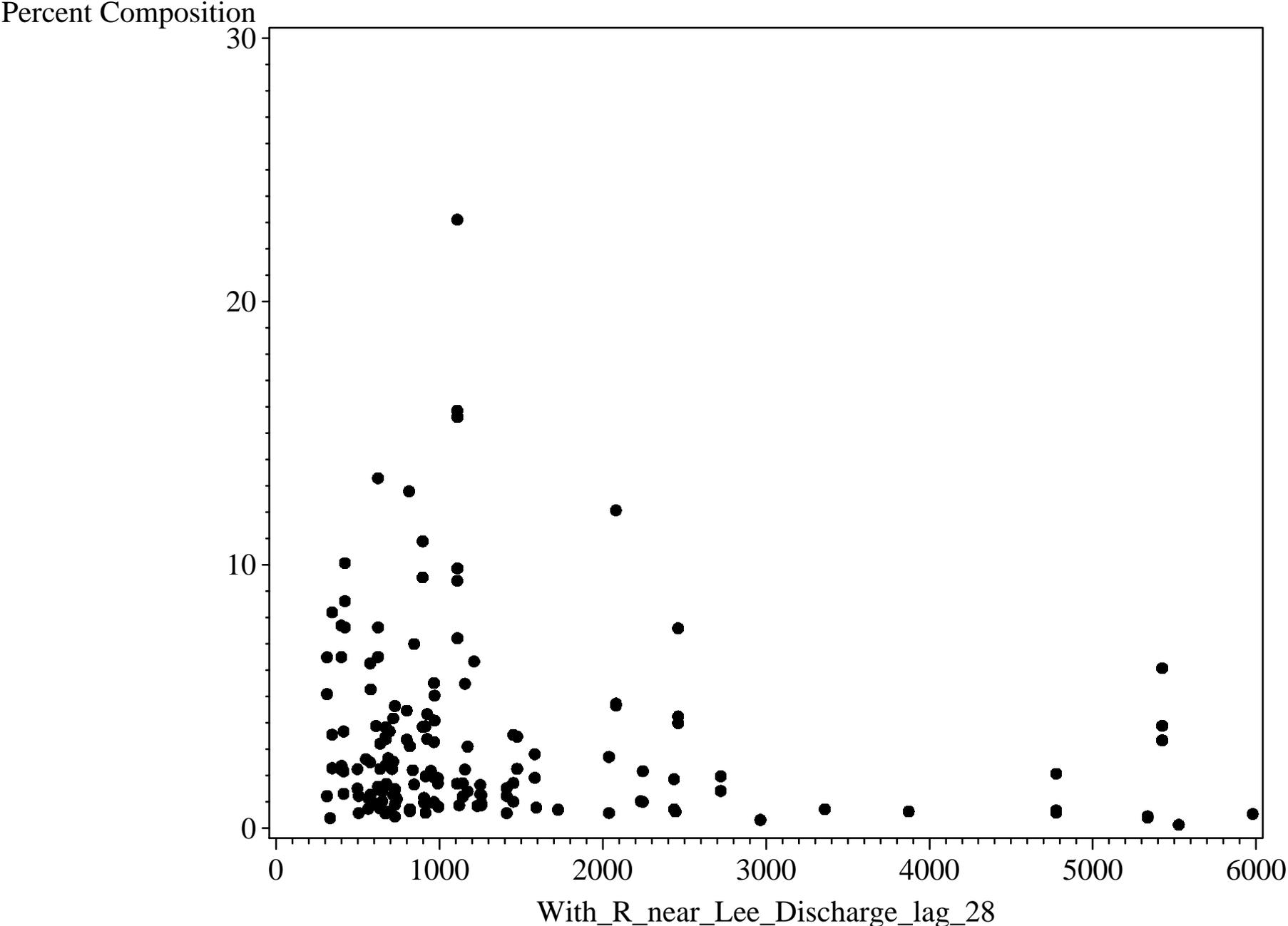
Percent Composition of Functional Feeding Group vs. 28 Day Lag Withlacoochee Flow (at Lee)
Parasitic Invertebrates

Percent Composition



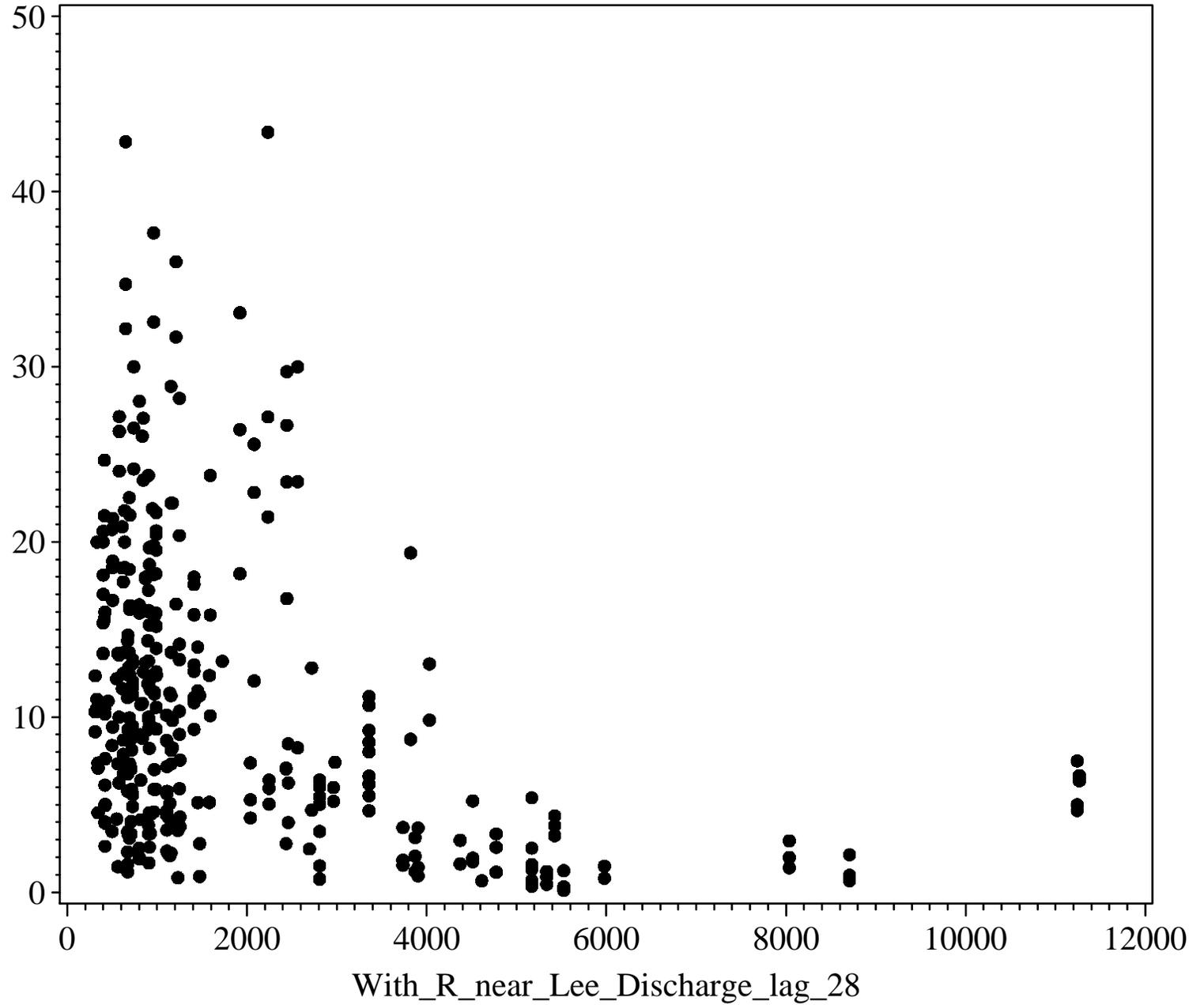
With_R_near_Lee_Discharge_lag_28

Percent Composition of Functional Feeding Group vs. 28 Day Lag Withlacoochee Flow (at Lee)
Plant Piercing Invertebrates



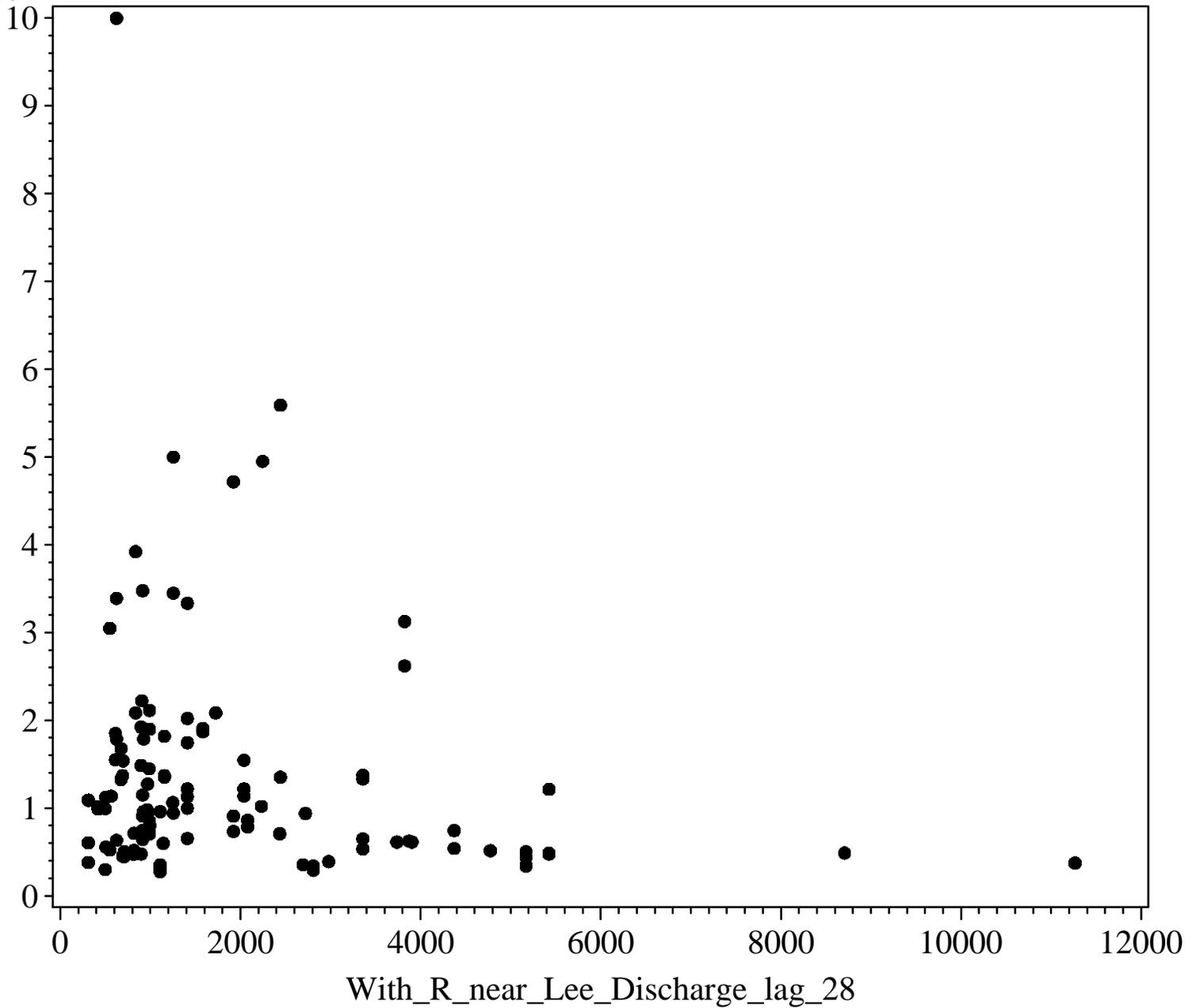
Percent Composition of Functional Feeding Group vs. 28 Day Lag Withlacoochee Flow (at Lee)
Predatory-Carnivorous Invertebrates

Percent Composition



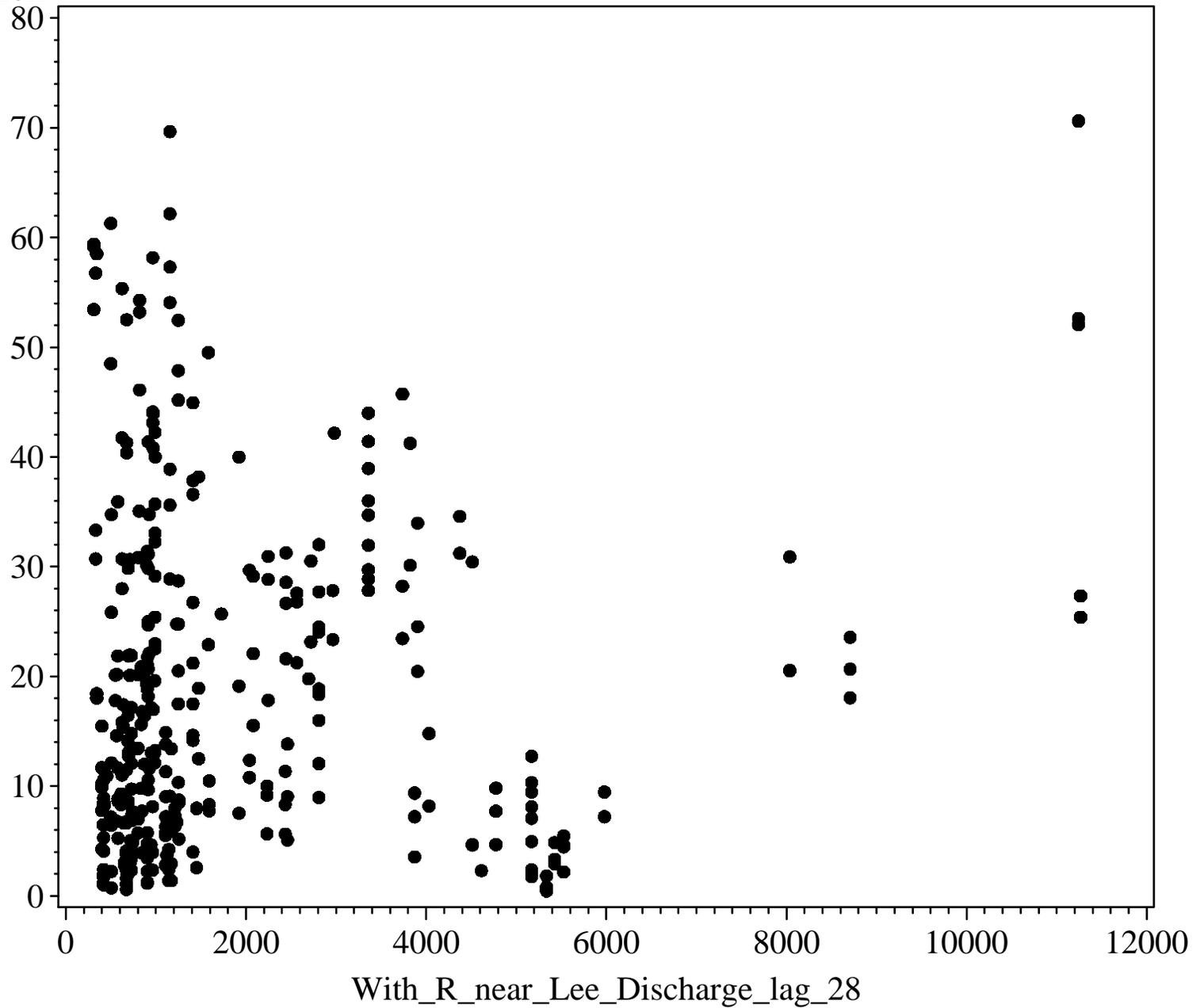
Percent Composition of Functional Feeding Group vs. 28 Day Lag Withlacoochee Flow (at Lee)
Scavenger Invertebrates

Percent Composition



Percent Composition of Functional Feeding Group vs. 28 Day Lag Withlacoochee Flow (at Lee)
Scraper Invertebrates

Percent Composition



Percent Composition of Functional Feeding Group vs. 28 Day Lag Withlacoochee Flow (at Lee)
Shredder Invertebrates

Percent Composition

