Economic Impacts of Vincennes University on the Knox County Economy

By Kevin T. McNamara*

Vincennes University is located in Knox County, Indiana. Vincennes had an enrollment of 10,076 students during the 1993-1994 academic year. While Vincennes' research and teaching activities provide services to people throughout Indiana, the University has specific benefits or impacts on Knox County. These benefits/impacts range from cultural, to educational, to social, to recreational. The University also has economic benefits for the community. These benefits result from the University spending money to employ faculty/staff, and from the University purchasing supplies and services in the local economy to support its educational programs.

One method of measuring the local economic benefits associated with Vincennes University is to use economic impact multipliers to estimate the total economic impacts associated with the university's operations. A multiplier is a number that represents the total level of activity that results from an initial activity in an economy. Multipliers can measure economic impact through business activity (output), income (salary and wages) and employment (jobs). Multipliers for all three measures are used below to estimate Vincennes University's impact on the Knox County economy. An input-output model of Knox County was constructed using IMPLAN (an input-output model developed

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by the U.S. Forest Service) to obtain output, income and employment multipliers that can be used to estimate the impacts Vincennes University has on the Knox County economy.¹

Vincennes University stimulates three types of economic activity in the Knox County economy: direct, indirect, and induced impacts.

- **Direct impacts** are the purchases, payments, and employment made by the University as it spends money in the local economy.
- **Indirect impacts** are activities in the local economy that result from local firms selling goods and/or services to the University.
- **Induced impacts** are activities in the local economy that result from household spending of income earned from either the University or their suppliers.

Vincennes University spent $55,127,726 to support its academic, research and teaching programs during the 1993-1994 academic year (Table 1). This is Vincennes University’s direct expenditure impact on the local economy. This spending resulted an additional $33,098,687 of expenditure or sales in the Knox economy—the indirect and induced impacts (Table 2). Vincennes’s total expenditure or sale impact on the Knox County economy (the combination of direct, indirect and induced impacts) was an estimated $88,226,413 (Table 3).

Vincennes University's 1993-1994 payroll was $30,411,104 (Table 1). This is the institution's direct income impact. The indirect and induced income impacts (income paid by businesses supplying Vincennes or meeting household spending needs Vincennes/supplier employees) was an estimated $10,233,336 (Table 2). The total income impact of Vincennes University on the Knox County was $40,379,864 (Table 3).

¹The input/output multipliers used in this analysis are called Type III multipliers. Type III multipliers estimate the total direct, indirect, and induced impacts associated with an activity on a specific economy.
Vincennes University's activities generated jobs in the Knox County economy. Vincennes employed 684 people\(^2\) during the 1993-1994 academic year (Table 1). Indirect and induced employment associated with Vincennes is 224 (Table 2). The total employment impact of Vincennes on the Knox County economy is 908 (Table 3).

Vincennes University impacts the Knox County community beyond the economic impacts associated with operation of their academic program. Additional economic benefits result from auxiliary enterprises such as student housing/food services, from student spending in the local economy, and from visitor spending associated with athletic events, cultural events, and campus visits. The University also impacts the economy and community in ways not easily measured by sales, income or employment. Examples include providing educational, cultural and recreational activities; and, employing faculty and staff that make critical contributions to the community through volunteer activities.

\(^2\)Full-time equivalents, West Lafayette campus, excluding auxiliary services employees.
Table 1. Direct Expenditure, Wage, and Employment Impacts of Vincennes University on Knox County Economy, 1994-1995 Academic Year

<table>
<thead>
<tr>
<th>Expenditures$1</th>
<th>$55,127,726</th>
</tr>
</thead>
<tbody>
<tr>
<td>Payroll$1</td>
<td>$30,411,104</td>
</tr>
<tr>
<td>Employment$2</td>
<td>684</td>
</tr>
</tbody>
</table>

1 Expenditures and wages for research, teaching and related activities. Institution's auxiliary enterprises are not included.

2 Total faculty and staff employment data for 1993-1994 represent full-time and adjusted part-time jobs.

Table 2. Indirect and Induced Expenditure, Income, and Employment Impacts of Vincennes University on Knox County Economy, 1994-1995 Academic Year

<table>
<thead>
<tr>
<th>Expenditure$1</th>
<th>$33,098,687</th>
</tr>
</thead>
<tbody>
<tr>
<td>Income</td>
<td>$10,233,336</td>
</tr>
<tr>
<td>Employment</td>
<td>224</td>
</tr>
</tbody>
</table>

1 Type III multipliers were obtained from an input-output model constructed for the Knox County economy with IMPLAN: output multiplier = 1.6004; the total income multiplier = 1.3365; employment multiplier = 1.3278.

Table 3. Total Expenditure, Income, and Employment Impacts of Vincennes University on Knox County Economy, 1993-1994 Academic Year

<table>
<thead>
<tr>
<th></th>
<th>Expenditure</th>
<th>Income</th>
<th>Employment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Direct Impacts</td>
<td>$55,127,726</td>
<td>$30,411,104</td>
<td>684</td>
</tr>
<tr>
<td>Indirect and Induced Impacts</td>
<td>$33,098,687</td>
<td>$10,233,336</td>
<td>224</td>
</tr>
<tr>
<td>Total Impact</td>
<td>$88,226,413</td>
<td>$40,379,864</td>
<td>908</td>
</tr>
</tbody>
</table>
Glossary of Economic Terms

Direct Impacts:
Purchases, payments, and employment made by a university/college as it spends money in the economy.

Indirect Impacts:
Activities in the economy that result from input suppliers.

Input Suppliers:
Firms that sell goods and/or services to the university/college.

Output:
Business expenditures.

Income:
Salary and wages.

Employment:
Number of jobs.

Multiplier:
A number that represents the total level of activity that results from an initial activity in the economy.

Induced Impacts:
Activities in the local economy that result from household spending of income earned from either the university or the input suppliers.