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AMERICAN WORKING POOR?

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## ABSTRACT

In accounting for secular trends in income inequality, most research has centered on supply side explanations. In this paper we look instead at the demand side and particularly at one component of aggregate demand, foreign trade. Changes in product demand affect the distribution of labor earnings by changing the derived demand for different skill classes of labor. Our attention will be focused on one skill class, the unskilled, many who make up the so-called working poor. Three questions will be analyzed:

- 1) What is the unskilled labor intensity of American exports relative to other components of final demand?
- 2) what is the unskilled labor intensity of American exports relative to American imports? and 3) has the changing composition of American exports and imports worked to the benefit or detriment of the American working poor?

## DOES FOREIGN TRADE BENEFIT THE AMERICAN WORKING POOR?

### 1. Demand Mix and Income Inequality

In accounting for secular trends in income inequality most research has centered on supply side explanations such as changes in the distribution of human capital or demographically induced labor supply changes. Focusing instead on the demand side of the market, one possible alternative explanation for inequality trends can be found in the changing composition of final demands. The production of individual commodities within the final demand vector are intensive in the use of different factors of production. Some goods, e.g., autos, are intensive in the use of physical capital while others, e.g., apparel, are intensive in the use of labor. Factor intensities in production also vary with respect to different types of labor. Analogous with the use of physical capital, some commodities use relatively more human capital, i.e., skilled labor, while others are intensive in the use of unskilled labor. The 'pre-fisc' distribution of labor earnings is determined by the number of workers in each type of skill group, their respective wage rate, and number of hours worked. Changes in the composition of final demands work to change the distribution of labor earnings by altering the derived demands for, and,

therefore, the number employed, hours worked, or the wage rates for different skill classes. If the secular shift in the composition of final demands is biased in favor of those commodities intensive in the use of skilled labor, we might plausibly expect to find rising rates of return being paid to skilled labor associated with increasing inequality as the incomes of the unskilled lag behind.

## 2. Foreign Trade and the Working Poor

The link between changing demand mix and secular trends in income inequality was recently examined in a paper by Williamson.<sup>1</sup> He attempted to identify several sources of change in the composition of domestic final demand and how, in turn, this would affect the share of income going to unskilled labor. Exports were excluded from the final demand vector, however, partly because they represent a relatively small per cent of total domestic production. In 1963, for instance, total exports were 5.5 per cent of G.N.P.<sup>2</sup> As he argued, a very dramatic shift in the composition of exports would be required to have an even perceptible influence on the derived demand for labor and thereby the distribution of labor earnings.

While foreign trade and exports in particular may not bulk large enough to affect the overall distribution of

income, they may have a significant impact on certain geographic areas, industries and/or subgroups of the labor force. Export related employment is not evenly distributed across the economy. Of the 116 industries examined by Eldridge and Saunders in a recent study, the nine industries with the greatest number of export related jobs accounted for nearly 40 per cent of all export employment in 1970.<sup>3</sup> The leading two industries, crops and other agricultural products and wholesale trade, accounted for 19 per cent of total export related employment. The impact of these industries is heightened by their relatively labor intensive nature. A different way to highlight the selective impact of export related employment is to compare the ratio of export related jobs to total employment in various industries. In 50 of these 116 detailed industries, less than 5 per cent of industry employment was related to merchandise exports in 1970. However, in 30 industries this ratio fell in the 10-to-20 per cent range and the ratio of export related to total employment exceeded 20 per cent in six industries.

The analysis in this paper will extend the work of Eldridge and Saunders in several directions. First, they did not distinguish between different types of labor required by exports. Are exports intensive in the use of any one kind of labor, unskilled or skilled labor for instance? Secondly, they did not compute estimates of

the labor displaced by imports. As with exports, do imports work to the disadvantage of any one particular group of the work force? The particular subgroup of the labor force focused on in this paper is the unskilled, many who make up the so-called 'working poor'. About  $1\frac{1}{2}$  million family heads who worked full time throughout 1968 did not receive an income large enough to put them above the poverty line.<sup>4</sup> A nearly equal number of family heads also engaged in some although not full time work and yet remained below the poverty line. As with export related employment, the working poor are not evenly distributed across the industrial sectors of the economy. They are instead concentrated in certain low wage areas such as agriculture, retail sales, and certain non-durable consumer goods industries, e.g., textiles and apparel. One method to increase the incomes of the working poor would be to increase the demand for the products they produce. As shown by Eldridge and Saunders, export related employment grew over 30 per cent between 1963 and 1972, compared to 19 per cent for total private employment. If it happened that those goods and services which are a large part of U.S. exports were also intensive in the use of unskilled labor, foreign trade could be a significant factor in reducing the number of working poor. The opposite situation is also possible, however. It may well be that American exports favor skilled labor while

American imports are unskilled labor intensive. Then, as the volume of imports continues to grow, they would serve to displace domestic demand for unskilled American labor in favor of the foreign unskilled. In this case foreign trade would only make the reduction of poverty more difficult to achieve.

### 3. The Unskilled Labor Intensity of Exports

What is the unskilled labor intensity of American exports relative to the other major components of final demand? In his earlier paper, Williamson has already calculated the unskilled labor intensity of consumption, investment, and government expenditures. We use the data presented in that paper to do the same calculation for exports.<sup>5</sup> What is desired is a ranking of industries by their relative use of unskilled labor. The unskilled labor intensity for a given industry is measured as the unskilled wage costs per dollar of output. Specifically, the unskilled wages content of total costs (per unit of output) can be measured by

$$(1) \quad \theta_j = \frac{W_j L_j}{C_j} ,$$

where  $L_j$  is the reported annual man-hours in industry  $j$ ,  $C_j$  is their total costs (including intermediate inputs) and  $W_j$  is the unskilled wage. To actually calculate



the  $\theta_j$  use was made of the static input-output model. For the 78 sectors listed by the Department of Commerce in their 1963 input-output table, the direct and indirect unskilled labor intensities were calculated. These are reproduced as Table 1. Each item can be interpreted as the payments impact on the working poor from a \$1 final demand expenditure on output of industry  $j$ . Call this payments impact

$$(2) \quad \theta_j = \hat{w}Qy_j,$$

where  $y_j$  is the final demand for  $j$ ,  $Q$  is the Leontief inverse matrix for 1963,  $\ell$  is a vector of 1963 labor coefficients, each element of which denotes the number of persons engaged per dollar of the  $j^{\text{th}}$  output, and  $\hat{w}$  is the vector of 1963 unskilled wages, taken to equal the annual earnings of farm laborers, assumed constant across all  $j$ .<sup>6</sup>

To focus more clearly on the impact on the unskilled of changes in the composition of demand, it is necessary to aggregate the 79 sectors in Table 1 into more meaningful final demand categories. This is done in Table 2. Domestic production for 1963 is broken down into consumption, investment, government and export expenditures, denoted as  $\theta^f$ . Exports are further broken down into 8 subcategories. First, looking at the four major components of final demand, exports are the least

Table 1. Payments Impact on Unskilled Labor, Direct and Indirect, of \$1 Purchase of Output from Industry j, 1963

Industry	$\sum_j \theta_j$
1. Livestock	.2908
2. Crops	.2928
3. Forestry and Fishing	.2355
4. Agric. Services	.3022
5. Iron Mining	.1129
6. Nonferrous Mining	.1370
7. Coal Mining	.1934
8. Petroleum Mining	.1456
9. Stone and Clay Mining	.1689
10. Chemical Mining	.1549
11. New Construction	.2115
12. Maintenance Const.	.2193
13. Ord. and Accessories	.1742
14. Food	.2266
15. Tobacco	.1613
16. Textile Mills	.2353
17. Misc. Textiles	.1921
18. Apparel	.2858
19. Fabr. Textiles	.2576
20. Wood and Products	.2364
21. Wooden Containers	.2395
22. House Furniture	.2294
23. Office Furniture	.2238
24. Paper and Products	.1643
25. Paper Containers	.1782
26. Printing and Publishing	.1952
27. Basic Chemicals	.1442
28. Synthetics	.1458
29. Drugs and Soaps	.1605
30. Paints	.1535
31. Petrol Refining	.1262
32. Rubber Products	.1798
33. Leather Tanning	.2331
34. Shoes	.2592
35. Glass and Products	.1826
36. Stone and Clay	.1817
37. Iron and Steel	.1485
38. Nonferrous Metals	.1259
39. Metal Containers	.1739
40. Heating	.1769
41. Stampings Etc.	.1769
42. Hardware Etc.	.1760
43. Engines and Turbines	.1725
44. Farm Machinery	.1661
45. Constr. Equip.	.1717

Table 1 (cont.)

Industry	2 1
46. Materials Hand. Equip.	.1737
47. Metalworking Equip.	.1717
48. Special Ind. Equip.	.1674
49. General Ind. Equip.	.1719
50. Mach. Shop Prod.	.1732
51. Office Mach.	.1750
52. Service Ind. Mach.	.1769
53. Elect. Apparatus	.1840
54. Appliances	.1843
55. Light and Wiring Equip.	.1814
56. Communications Equip.	.1899
57. Electronic Components	.1873
58. Batteries Etc.	.1798
59. Motor Vehicles and Equip.	.1417
60. Aircraft and Parts	.1743
61. Trains and Ships	.1725
62. Instruments Etc.	.1718
63. Photo. Apparatus	.1617
64. Misc. Manufactures	.2036
65. Transportation	.1810
66. Communications	.1407
67. Radio and TV Broadcasting	.1715
68. Utilities	.1405
69. Trade	.2429
70. Finance and Ins.	.1114
71. Real Estate	.1104
72. Hotels and Pers. Serv.	.3289
73. Business Services	.2012
74. Auto Repair	.2591
75. Amusements	.2613
76. Medical and Education	.2580
77. Fed. Gov.	.2339
78. State and Loc. Gov.	.2423

Source: See Appendix and text for discussion of methods and sources.

Table 2: Payments Impact on Unskilled Labor, Direct and Indirect, of \$1 Expenditures of Final Demand, 1963.

Final Demand Category	$\gamma^f$
1a. Consumption	.1965
1b. Consumption (Excluding Services)	.2001
2a. Investment	.1980
2b. Investment (Including Med. and Ed.)	.2170
3. Total Government	.2395
4. Exports	.1922
4.1 Agriculture, Forestry, and Fishing	.2915
4.2 Mining	.1681
4.3 Manufacturing	.1725
4.4 Transportation, Communication	.1798
4.5 Wholesale, Retail Trade	.2429
4.6 Finance, Real Estate	.1104
4.7 Services	.2399
4.8 Government Enterprises	.2339

Source: The underlying  $\gamma^f$  are taken from Table 1. Items 1a.-3 are from Williamson. (1976). The final demand weights used to aggregate up to these export expenditure categories are from Input-Output Structure of the U.S. Economy: 1963, Table 1, p35, reprinted in November 1969 Survey of Current Business.

unskilled labor intensive, although the variation is relatively small. Within exports, however, the variation in unskilled labor intensity is considerably greater, the unskilled labor intensity of the agriculture, forestry, and fishing sector is in fact close to three times that of the finance and real estate sector. As Williamson has noted with components of domestic demand, variation in unskilled labor intensity is apparently much greater within the export sector than between exports and other final demand categories. It would appear, at the aggregate level anyway, that the export component of final demand is, if anything, moderately biased against unskilled labor compared to the other components of final demand. There are clearly some sectors in American export trade that are intensive in the use of unskilled labor. The results in Table 2 would indicate, however, that those industries characterized by high ratios of export related jobs to total employment are not the same as those industries intensive in the use of the working poor.

#### 4. Exports, Imports, and the Leontief Paradox

Whether the American working poor benefit from foreign trade depends on the additional unskilled labor demanded for export production versus the unskilled

labor displaced by imported goods. Another way to ask this question is, what is the unskilled labor intensity of American exports versus American imports? The question of factor proportions in foreign trade has received an extensive treatment in trade theory. The Hecksher-Ohlin theorem states that a country's exports use intensively the country's relatively abundant factors while its imports are intensive in its relatively scarce factors. According to a textbook interpretation of the Hecksher-Ohlin theorem, the U.S. should export relatively capital intensive goods because its abundant supply of capital gives it a comparative advantage in such products, and by the same reasoning, U.S. imports should be relatively labor intensive.<sup>7</sup>

This question of factor proportions in foreign trade has been subject to considerable empirical investigation. In a pathbreaking article, Leontief, using his 1947 input-output table, found just the opposite results as predicted from the Heckscher-Ohlin model.<sup>8</sup> His calculations found U.S. exports required a lower capital-labor ratio in their production than did U.S. imports. A number of studies have since followed seeking to 'explain' the paradox, focusing on such things as the capital requirements of natural resource products or the research and development content of commodities. One line of research that has been extensively followed

centers on the notion of human capital. It has been argued that the human capital embodied in U.S. workers should be considered along with the physical capital stock. Several studies have shown that indeed U.S. exports are more skill intensive and education intensive than the U.S. imports.<sup>9</sup> Thus while the simple capital-labor version of the Heckscher-Ohlin theorem has been shown to be inadequate, by allowing for a third factor, human capital, the consensus seems to be that the Heckscher-Ohlin factor proportions theory of trade remains largely valid. A clear implication of the 'revised' Heckscher Ohlin theorem is, then, that American imports should be more unskilled labor intensive than American exports.

The unskilled labor intensities of American exports and imports for 1963 are presented in Table 3, as well as a more detailed breakdown by end use of product. It should be noted Table 3 is calculated using only merchandise exports and imports; complete data on imports by industry of origin is not given in the 1963 input-output table nor is separate trade data available for the transportation, finance and service sectors. Table 3 therefore includes the Agriculture, Forestry and Fishing, the Mining, and the Manufacturing industries given in Table 2, comprising somewhat over 75 per cent of total exports. A further caveat should also be mentioned.

Table 3: Payments Impact on Unskilled Labor, Direct and Indirect, of \$1 Expenditures of Merchandise Exports and Imports, 1963.

End Use	Exports	Imports
Total	.1931	.1944
Food, Feed, and Beverage	.2713	.2564
Industrial Supplies and Materials	.1690	.1590
Capital Goods	.1742	.1757
Consumers Goods	.1968	.2339
Automobiles and Accessories	.1433	.1471
Ordinance	.1742	.1742

Source: The underlying  $\theta_j^v$  are taken from Table 1. The classification of input-output industries by end use was taken from U.S. Exports and Imports: Classified by OBE End-Use Commodity Categories 1923-1968, A Supplement to the Survey of Current Business, Dept. of Commerce, 1970. All export and import data come from U.S. Exports and Imports As Related to Output, Dept. of Commerce, 1958, 1963, and 1971 issues.



In the calculations that follow we assume the 1963 American input-output relationships characterize the production of both domestic and foreign goods. Our conclusions as to the relative unskilled labor intensity of exports and imports are obviously dependent on the validity of that assumption.

For 1963, we find American imports were more intensive in the use of unskilled labor, though the difference is negligible. The reason for the small difference in unskilled labor intensities can be seen by looking at the breakdown of exports and imports by end use. For two sectors--Food, Feed, and Beverages, and Industrial Supplies and Materials--American exports were in fact more unskilled labor intensive. These two sectors of production are characterized by a relatively high ratio of natural resource inputs to total factor inputs. In a second paper, Leontief found that when he excluded 19 natural resource industries from his calculations, the capital intensity of exports exceeded that of imports.<sup>10</sup> Baldwin, among others, has explained this result on the basis of two related observations: a) part of American imports consist of natural resource commodities not easily produced in the U.S., and b) the production of these natural resource commodities are capital intensive.<sup>11</sup> Our results, therefore, appear to support these earlier studies.

These results would lead to three conclusions:

- 1) for 1963, we find only weak empirical confirmation for the predicted factor intensities of American exports and imports that comes out of the Heckscher-Ohlin model;
- 2) for certain subsectors of American imports there appears to be a strong natural resource--capital complementarity; and 3) at least in 1963, foreign trade had a slight tendency to work to the relative advantage of American skilled labor and foreign unskilled labor, but against American unskilled labor.

#### 5. The Changing Composition of Trade

Several researchers have found that since the early 1950's, the changing composition of American exports and imports has had the effect of changing the factor intensities of trade in the direction predicted by the Heckscher-Ohlin theorem. Mitchell, for instance, concludes that by 1970 the Leontief Paradox had disappeared.<sup>12</sup> As further evidence of the shift in exports towards capital intensive goods and imports towards labor intensive goods, he notes that, while in the early 1960's organized labor actively lobbied for the removal of trade restrictions, by the late 1960's organized labor was promoting the Burke-Hartke trade bill to place quotas on imports.

If the composition of foreign trade has been moving in such a way as to bring about the predicted relative factor intensities of exports and imports, we would expect to find the unskilled labor content of imports increasing over time relative to exports. In Table 4 are presented the unskilled labor intensities of merchandise exports and imports for the years 1958, 1963, and the latest year for which data is available, 1971. Also presented in Table 4 are the relative shares of each end use category in total exports or imports for the years 1958 and 1971 and the real rate of growth of expenditures for each subcategory over the 1958-71 period. Because differential rates of price change among the input-output industries may distort the relative weights used to aggregate up to the total export or import unskilled labor coefficient, it was necessary to deflate the export and import data. For most of the input-output industries price deflators could be derived from one or more components of the Wholesale Price Index. For two of the mineral producing industries, unit value indexes were constructed from the quantity and expenditure data given in the foreign trade sources. For two industries, components of the Consumer Price Index were used. Deflating imports by domestic price indexes obviously introduces some degree of bias. An additional assumption underlying Table 4 is that the

Table 4: Payments Impact on Unskilled Labor, Direct and Indirect of \$1 Expenditures of Merchandise Exports and Imports, 1958, 1963, 1971.

$\frac{1}{\theta}$	1958	1963	1971
Exports	.1900	.1931	.1891
Imports	.1963	.1944	.1845

  

End Use	Relative Share 1958	Relative Share 1971	% Rate of Growth
Food, Feed, Beverage			
Exports	.220	.208	.963
Imports	.349	.173	.438
Industrial Supplies and Materials			
Exports	.292	.258	.838
Imports	.505	.383	1.20
Capital Goods			
Exports	.287	.369	1.67
Imports	.049	.164	8.80
Consumer Goods			
Exports	.062	.054	.806
Imports	.048	.101	5.08
Automobiles			
Exports	.105	.101	1.00
Imports	.048	.178	8.65
Ordnance			
Exports	.034	.010	-.368
Imports	.001	.002	6.16

Sources: The same as Table 3.

ranking of industries by unskilled labor intensity did not change between 1958 and 1971.

Looking at Table 4, American exports are less unskilled labor intensive than are imports in 1958, the two are nearly equal in 1963, but by 1971, exports are more unskilled labor intensive than were imports. According to the numbers in Table 4, the Leontief Paradox had not disappeared in the late 1960's, but instead had become more pronounced. A second interesting point in Table 4 is the secular trend in the unskilled labor intensity of both exports and imports. Between 1958 and 1971, there was a downward trend in both ratios, especially for imports. It is clear from these numbers that the composition of foreign trade was shifting away from products having a large unskilled labor content.

Looking at the breakdown of exports and imports by end use category in Table 4 provides some explanations for the trends noted above. It is relatively clear why the unskilled labor intensity of both exports and imports has fallen. The end use categories for both exports and imports that had the highest rate of growth were also those with relatively low unskilled labor content. Automobile and capital goods imports grew much faster over the 1958-71 period than the unskilled intensive agricultural sector. This is clearly evidenced in the rapidly declining share of imported

agricultural products in total imports for 1971 compared to 1958, while capital goods and autos increased their relative share in both the total export and import bundle, and especially so for imports. The reversal of factor intensities by 1971 seems to be largely explained by the tremendous increase in American imports of foreign capital goods and automobiles as a proportion of all imports. It may be that part of this increase is due to particular institutional factors; for example, American import of autos was given a big boost by the U.S.-Canada automobile agreement in 1965. It is also possible the 1971 composition of foreign trade was in some way unique to that year and the relative factor intensities of exports and imports would return to their 'expected' position if later data was available. However, if Table 4 is representative of the secular shift in the factor intensity of exports and imports, it would appear the standard Heckscher-Ohlin theory of trade may require further qualifications.

6. Does Foreign Trade Benefit the American Working Poor?

From the analysis presented in this paper, the answer to this question would seem to be both yes and no. Exports are the least unskilled labor intensive of the major final demand categories. Furthermore, since 1963

at least, the unskilled labor content of American exports has declined even further. If the composition of final demands were to shift away from domestic sources of demand and towards increased exports, the derived demand for unskilled labor would decline, and *ceteris paribus*, lead to a greater dispersion of incomes between skilled and unskilled workers. In this case foreign trade would clearly work to the disadvantage of the working poor.

In the long run, however, any expansion in export expenditures must be met by an equal rise in imports. We have found for 1958 and 1963 that imports were more unskilled labor intensive than were exports. Thus, not only were exports the least unskilled labor intensive among major components of final demand, but the unskilled labor displaced by imports would be, in the long run, even greater than that generated from export expenditures. By 1971, however, we found this situation to have reversed with exports now the more unskilled labor intensive. Therefore, on a dollar for dollar basis foreign trade results in a net gain for American unskilled workers.

## FOOTNOTES

1. Williamson (1976).
2. Input-Output Structure of the U.S. Economy: 1963, Table 1, p. 35.
3. Eldridge and Saunders (1973), p. 19.
4. Miller (1971), p. 130.
5. Williamson (1976), Table 1. For a more detailed explanation of the method used in calculating the sectoral unskilled labor intensities, see pp. 11-16.
6. Theoretically at least, the method used to calculate the sectoral unskilled labor intensities may tend to misrepresent the difference in unskilled labor intensities between sectors. In particular, all employed man-hours in each sector were assigned an unskilled annual earnings rate, regardless of occupation mix. Two sectors with the same man-hour input and identical dollar output would yield identical direct payments impact on the working poor. However, it may be that one of these sectors uses mostly professional and technical workers while the other sector uses mostly laborers. In this case our calculations would overstate the payments impact on the working poor in the sector with the professional and technical people.

Williamson, in a forthcoming study, has recalculated the  $\theta_j$  taking into account the occupational mix by sector. His procedure was to allocate occupations into alternative definitions of high and low wage (unskilled) labor. Only low wage man-hour inputs are used in the calculation of the  $\theta_j$ . I have recalculated Table 4 using one of his three alternative measures, call it  $\theta_j^*$ , where the unskilled are defined to include: operatives, farm laborers, nonfarm laborers, sales workers, craftsmen and kindred workers, clerical and kindred workers, service workers, farmers, and private household workers.

As Williamson found, use of the original definition of  $\theta_j$  in fact understates the unskilled labor intensity differentials between sectors. All of our conclusions in the text remain the



same, only the disparity between the exports and import sectors is slightly larger. We continue to use the original definition of  $\theta_1$ , however, to maintain comparability with the original work of Williamson.

7. Kindelberger (1973), pp. 27-29.
8. Leontief (1953)
9. Baldwin (1971)
10. Leontief (1956)
11. Baldwin (1971)
12. Mitchell (1975), pp. 355.

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