

Appendix N
Socioeconomic Multipliers and Calculations

Table 1 - Estimation of the Economic Impacts of Construction of Brookfield Recycling Facility on Region

Change in final demand	\$32,721,610
Final demand multiplier	
Output	1.8997
Earnings	0.5026
Employment	12.3574
Impact on:	
Output	\$62,161,243
Earnings	\$16,445,881
Employment	404
Direct Effect Multipliers	
Earnings	1.6483
Employment	1.7949
Direct Effects	
Earnings	\$9,977,481
Employment	225

Source: Bureau of Economic Analysis; Brookfield

Table 2 - Estimation of the Impacts of Operation of Brookfield Recycling Facility on Region (Brookfield Labor Shed)

Change in final demand	\$44,560,495
Final demand multiplier	
Output	1.8227
Earnings	0.412
Employment	9.7713
Impact on:	
Output	\$81,220,414
Earnings	\$18,358,924
Employment	435
Direct Effect Multipliers	
Earnings	1.8277
Employment	2.0760
Direct Effects	
Earnings	\$10,044,824
Employment	210

Source: Bureau of Economic Analysis; Brookfield

Table 3 - Quantitative Costing Analysis: Town of Wawayanda Highway Fund

A	2010 Real Property Tax Levy	\$1,399,810
B	Total Nonresidential Real Assessed Value	\$116,937,336
C	Total Assessed Value	\$500,075,020
D	Percentage of Total Value in Nonresidential Use [B/C]	23.38%
E	Nonresidential Land Parcels	379
F	Total Land Parcels	2,593
G	Percentage of Parcels Used for Nonresidential	14.62%
H	Percentage Share of Nonresidential -Associated Expenditures $[(G+D)/2]$	19.00%
K	Municipal Expenditures Attributable to Nonresidential Uses [AxDxJ]	\$265,966
L	Average Nonresidential Parcel Value	\$308,542
M	Proportion of Proposed Assessed Value to Average Value of Nonresidential	58.32884379
N	Refinement Coefficient for Determining Expenditure Share of Proposed Use	0.17
O	Proportion of Proposed Assessed Value to Total Value of Nonresidential	0.153901963
P	Share of Municipal Expenditures Assigned to Proposed Use $[K*N*O]$	\$6,958.54

Source: NYS Office of Real Property, 2010 Wawayanda Town Budget

Table 4 - Quantitative Costing Analysis: Town of Wawayanda Town Fund

A	2010 Real Property Tax Levy - Does not Account for County Tax Share	\$978,591
B	Total Nonresidential Real Assessed Value	\$116,937,336
C	Total Assessed Value	\$500,075,020
D	Percentage of Total Value in Nonresidential Use [B/C]	23.38%
E	Nonresidential Land Parcels	379
F	Total Land Parcels	2,593
G	Percentage of Parcels Used for Nonresidential	14.62%
H	Percentage Share of Nonresidential -Associated Expenditures $[(G+D)/2]$	19.00%
K	Municipal Expenditures Attributable to Nonresidential Uses [AxDxJ]	\$185,933
L	Average Nonresidential Parcel Value	\$308,542
M	Proportion of Proposed Assessed Value to Average Value of Nonresidential	58.32884379
N	Refinement Coefficient for Determining Expenditure Share of Proposed Use	0.17
O	Proportion of Proposed Assessed Value to Total Value of Nonresidential	0.153901963
P	Share of Municipal Expenditures Assigned to Proposed Use $[K*N*O]$	\$4,864.64

Source: NYS Office of Real Property, 2010 Wawayanda Town Budget

It should be noted that the analysis used for the Town Fund is atypical, in that the Town Fund receives extraordinary funding by Orange County non-property tax distribution. In this case, using the Real Property Tax Levy alone, would understate the future local cost of the proposed use (a total of \$750 would be predicted). Because of this, the amount of revenue received by the County was discounted from the analysis (was added to the Real Property Tax Levy in determining costs).

Table 5 - Quantitative Costing Analysis: County of Orange

A	2010 Real Property Tax Levy	\$112,543,012
B	Total Nonresidential Real Assessed Value	\$1,764,758,105
C	Total Assessed Value	\$4,898,694,627
D	Percentage of Total Value in Nonresidential Use [B/C]	36.03%
E	Nonresidential Land Parcels	12,331
F	Total Land Parcels	109,179
G	Percentage of Parcels Used for Nonresidential	11.29%
H	Percentage Share of Nonresidential -Associated Expenditures $[(G+D)/2]$	23.66%
K	Municipal Expenditures Attributable to Nonresidential Uses $[AxDxJ]$	\$26,627,319
L	Average Nonresidential Parcel Value	\$143,116
M	Proportion of Proposed Assessed Value to Average Value of Nonresidential	125.75
N	Refinement Coefficient for Determining Expenditure Share of Proposed Use	0.09
O	Proportion of Proposed Assessed Value to Total Value of Nonresidential	0.01
P	Share of Municipal Expenditures Assigned to Proposed Use $[K*N*O]$	\$24,438.93

Source: NYS Office of Real Property, 2010 Orange County Legislative Budget

Table 6 - Quantitative Costing Analysis: Town of Wawayanda Fire Districts

A	2010 Real Property Tax Levy	\$1,070,179
B	Total Nonresidential Real Assessed Value	\$116,937,336
C	Total Assessed Value	\$500,075,020
D	Percentage of Total Value in Nonresidential Use [B/C]	23.38%
E	Nonresidential Land Parcels	379
F	Total Land Parcels	2,593
G	Percentage of Parcels Used for Nonresidential	14.62%
H	Percentage Share of Nonresidential -Associated Expenditures $[(G+D)/2]$	19.00%
K	Municipal Expenditures Attributable to Nonresidential Uses $[AxDxJ]$	\$203,335
L	Average Nonresidential Parcel Value	\$308,542
M	Proportion of Proposed Assessed Value to Average Value of Nonresidential	58.32884379
N	Refinement Coefficient for Determining Expenditure Share of Proposed Use	0.17
O	Proportion of Proposed Assessed Value to Total Value of Nonresidential	0.153901963
P	Share of Municipal Expenditures Assigned to Proposed Use $[K*N*O]$	\$5,319.93

Source: NYS Office of Real Property, 2010 Wawayanda Town Budget

Because assessed valuation information does not exist on a fire district basis, the quantitative analysis assesses the cost of the facility based on the total cost to fire districts of all nonresidential real property in the Town.