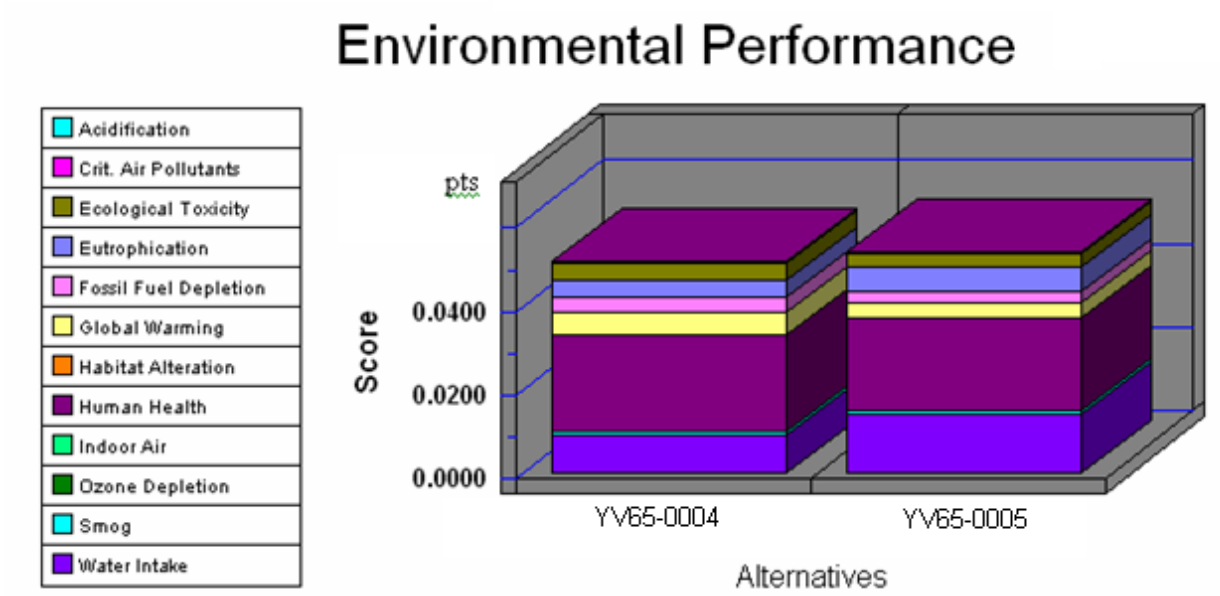
BEES Results: Thermal Shipping Containers

Functional Unit: 1 Container



Note: Lower values are better

Category	YV65-0004	YV65-0005
Acidification--3%	0.0000	0.0000
Crit. Air Pollutants--9%	0.0005	0.0004
Ecolog. Toxicity--7%	0.0040	0.0031
Eutrophication--6%	0.0042	0.0060
Fossil Fuel Depl.--10%	0.0035	0.0025
Global Warming--29%	0.0057	0.0040
Habitat Alteration--6%	0.0000	0.0000
Human Health--13%	0.0229	0.0220
Indoor Air--3%	0.0000	0.0000
Ozone Depletion--2%	0.0000	0.0000
Smog--4%	0.0009	0.0009
Water Intake--8%	0.0092	0.0141
Sum	0.0509	0.0530

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Thermal Shipping			
Impacts	Units	YV65-0004	YV65-0005
Acidification	millimoles H^+ equivalents	3.49E+03	3.15E+03
Criteria Air Polutants	microDALYs	1.05E+00	8.61E-01
Ecotoxicity	g 2,4-D equivalents	4.70E+01	3.59E+01
Eutrophication	g N equivalents	1.34E+01	1.92E+01
Fossil Fuel Depletion	MJ surplus energy	1.24E+01	8.86E+00
Global Warming	g CO_2 equivalents	5.03E+03	3.51E+03
Habitat Alteration	T&E count	0.00E+00	0.00E+00
Human Health--Cancer	g C_6H_6 equivalents	1.45E+01	1.39E+01
Human Health--NonCancer	g C_7H_8 equivalents	2.28E+04	2.10E+04
Indoor Air Quality	g TVOCs	0.00E+00	0.00E+00
Ozone Depletion	g CFC-11 equivalents	2.17E-04	2.16E-04
Smog	g NO_x equivalents	3.40E+01	3.49E+01
Water Intake	liters of water	6.08E+02	9.32E+02
Functional Unit	----------	1 Container	

1 Following are more complete descriptions of units: Acidification: millimoles of hydrogen ion equivalents; Criteria Air Pollutants: micro Disability-Adjusted Life Years; Ecological Toxicity: grams of 2,4-dichlorophenoxy-acetic acid equivalents; Eutrophication: grams of nitrogen equivalents; Fossil Fuel Depletion: megajoules of surplus energy; Global Warming: grams of carbon dioxide equivalents; Habitat Alteration: threatened and endangered species count; Human Health-Cancer: grams of benzene equivalents; Human Health-NonCancer: grams of toluene equivalents; Indoor Air Quality: grams of Total Volatile Organic Compounds; Ozone Depletion: grams of chloroflourocarbon-11 equivalents; Smog: grams of nitrogen oxide equivalents; and Water Intake: liters of water.

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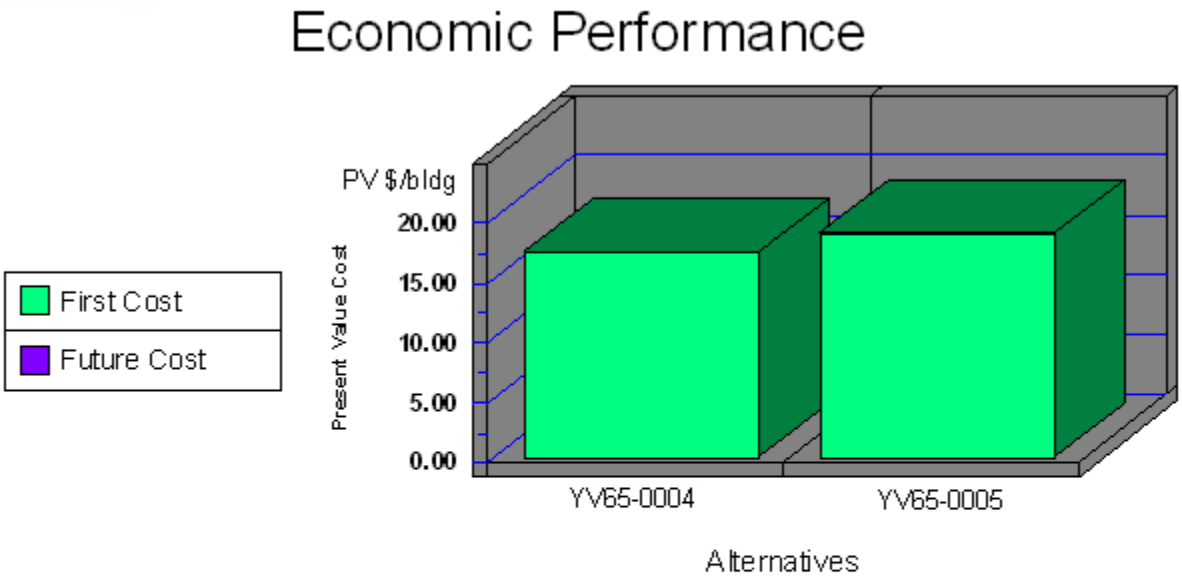
Functional Unit: 1 Container

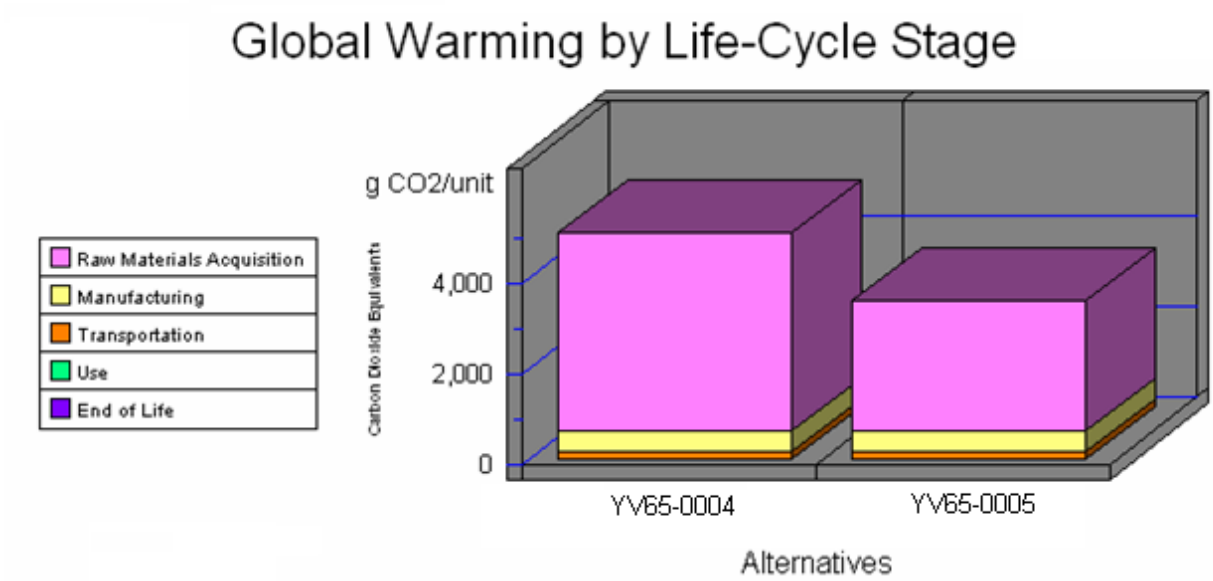


Category	YV65-0004	YV65-0005
First Cost	17.16	18.75
Future Cost– 3.0%	0.00	0.00
Sum	17.16	18.75

*This is a consumable product. Therefore, future costs are not calculated.

BEES Results: Thermal Shipping Containers

Functional Unit: 1 Container

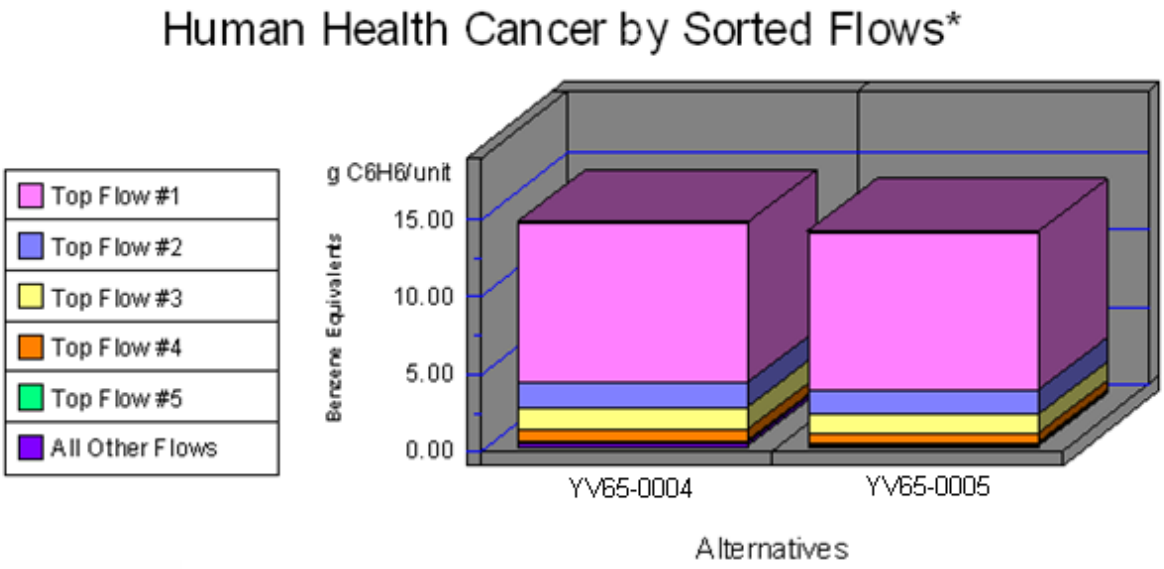


Note: Lower values are better

Category	YV65-0004	YV65-0005
1. Raw Materials	4375	2861
2. Manufacturing	466	466
3. Transportation	187	187
4. Use	0	0
5. End of Life	0	0
Sum	5027	3513

BEES Results: Thermal Shipping Containers

Functional Unit: 1 Container



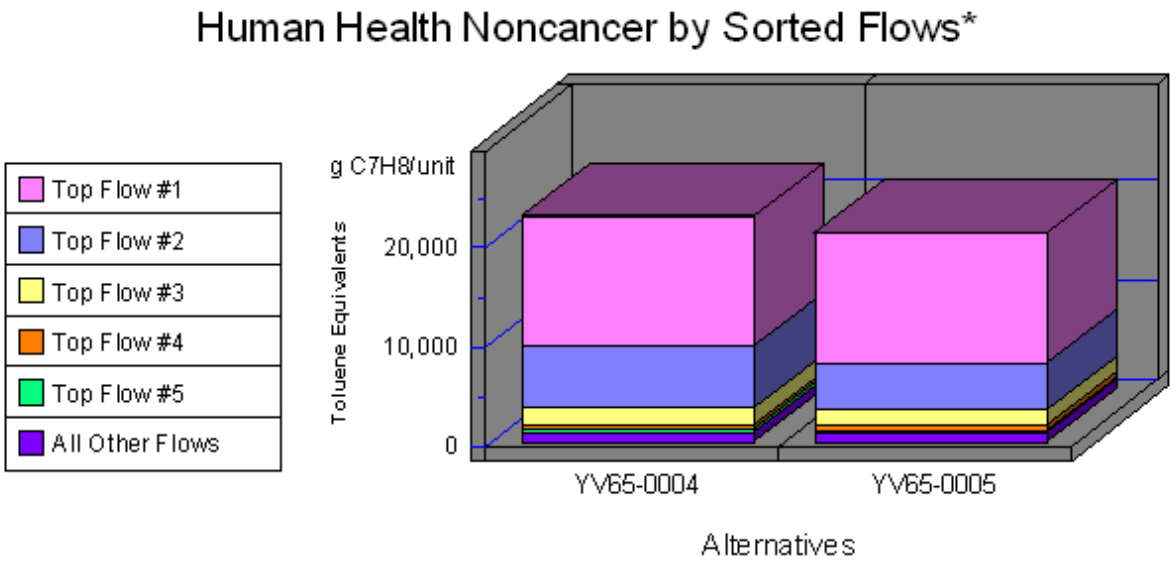
Note: Lower values are better

Category	YV65-0004	YV65-0005
Cancer–(a) Dioxins (unspecifie	10.39	10.32
Cancer--(w) Arsenic (As3+, As5+	1.59	1.50
Cancer--(w) Phenol (C6H5OH)	1.44	1.18
Cancer–(a) Arsenic (As)	0.72	0.64
Cancer–(a) Carbon Tetrachlorid	0.13	0.13
All Others	0.26	0.17
Sum	14.52	13.94

*Sorted by five topmost flows for worst-scoring product

BEES Results: Thermal Shipping Containers

Functional Unit: 1 Container



Note: Lower values are better

Category	YV65-0004	YV65-0005
Noncancer--(a) Dioxins (unspeci	13,083.94	13,007.49
Noncancer--(a) Mercury (Hg)	6,276.76	4,686.86
Noncancer--(a) Lead (Pb)	1,625.63	1,533.72
Noncancer--(w) Barium (Ba++)	477.75	430.33
Noncancer--(w) Lead (Pb++, Pb4+	325.91	288.17
All Others	1,014.60	1,013.03
Sum	22,804.60	20,959.60

*Sorted by five topmost flows for worst-scoring product