

Savings Analysis Computation For Using RAP & Shingles in a HMF

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Input Data for Analysis

Virgin Aggregate Cost/Ton	\$10.00	%RAP in Intial Mix Design	0.
Liquid Asphalt Cost/Ton	\$350.00	%RAP in Final Mix Design	30.
RAP Trucking Cost/Ton of RAP	\$1.00	RAP Cost (what you pay/ton)	\$
RAP Processing Cost/Ton of RAP	\$2.50	Tons Ran/Year	150
RAP Handling Cost/Ton of RAP	\$0.50	% Shingles in Mix Design	
% Liquid Asphalt in Final Mix	6.00%	% Liquid AC in Shingles	
% Liquid Asphalt in RAP, Initial	5.00%	Shingle Tipping Fee/Ton	\$20
% Liquid Asphalt in RAP, Final	5.00%	Shingle Processing Cost/Ton	\$1

Savings Analysis For RAP Usage vs Virgin or Lesser RAP Usage

Initial Mix Design Costs		Final Mix Design Costs	
Aggregate	9.40	Aggregate	\$
Liquid Asphalt	21.00	Liquid Asphalt	\$1
Total RAP Costs	0.00	Total RAP Costs	\$
Total Initial Mix Material Cost	30.40	Total Final Mix Material Cost	\$1
Total RAP Weight #'s	0	Total RAP Weight #'s	
Virgin Aggregate Weight #'s	1880	Virgin Aggregate Weight #'s	
Virgin Liquid Asphalt Weight #'s	120	Virgin Liquid Asphalt Weight #'s	

Annual Savings Realized By Increasing RAP Percentage

Total Savings Per Year @ Specified Production	\$1,762,500
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