Project Costs Spreadsheet

Cornell Local Roads Program

August 2015

Steps to use spreadsheet

1. Fill out cells in yellow. Cells in blue and green are calculated automatically.
2. Use day size units for the calculation. Be sure to decide the day length.
3. While the project length and width do not have to be the same units, it is easier to understand if they are.
4. For the Production area, use a typical project.
5. Be sure to decide if the project is area base (such as a paving) or linear (such as ditching).
6. Percentage covered is used when a project only covers a portion of the highway. For instance, patching small areas, calculate the cost of the patch and then determine the percentage of the road needing patching and put this into the cell G10.
7. The project scope area allows a new project with different values to be calculated using the production costs as a beginning.
8. The contingency is added to the project costs.
9. If the expected percentages change, be sure to update the proper cells.
10. The labor and equipment page can be set up for a given municipality. Just plug in the equipment and employee costs for the agency.

Municipality: Date:
Project Name: By:

Production

per Day / per Hour
Area / Linear / Each
Day length: 10.0 hours

		Units
length		feet
width		feet
area	-	feet*feet
Percentage covered (%)	100%	

PRODUCTION	COSTS	%
Materials	$ -	
Invoices	$ -	
Labor	$ -	
Equipment	$ -	
TOTAL	$ -	

Project Scope

Contingency (%)		
length		feet
width		feet
area	-	feet*feet
Percentage covered (%)	100%	
Actual area to be worked on during project	-	feet*feet

PROJECT	COSTS	%
Materials		
Invoices		
Labor		
Equipment		
TOTAL	$ -	

Unit cost calculation	Percentage covered (%)	100%			/feet*feet

Abbreviations & Conversions

Length

		Conversion factors	
in	inch	63360	12
ft	foot	5280	1
yd	yard	1760	0.33
mi	mile	1	0.000189

Weight

lbs	pound	2000	1
ton	ton	1	0.00050

Area

		Conversion factors	
sf	square foot	9	1
sy	square yard	1	0.11

Volume

cf	cubic feet	27	1.000
cy	cubic yard	1	0.037
gal	gallons	202	7.48

Power

hp	horsepower

Town Name:
Project Name:

Date:
By:

Production Area per Day

Day length: 10.0

length
width
area - feet*feet

MATERIALS				Material Cost $ -	INVOICES				Invoice Cost $ -
Item	Price $/unit	Unit	Quantity	per Day	Item	Price $/unit	Unit	Quantity	per Day

Town Name: Date:
Project Name: By:

Production Area per Day

Day length: 10.0

length feet
width feet
area - feet*feet

www.nysdot.gov/divisions/operating/oom/ transportation-maintenance/repository/ EqRates2009.pdf

LABOR				Labor Cost	EQUIPMENT				Equipment Cost
Benefit rate (%)	0%			$ -	Overhead (%)	0%			$ -
Position	Wages $/hour	Total $/hour	Quantity	per Day	Type	Rate $/hour	Total $/hour	Quantity	per Day