

# PMS Analysis Columns

## 1.1 Setup PMS Analysis Columns

Prior to configuring or performing any analysis using the system, it is important to define the usage of each variable used in the system, particularly those used in the Network Master table.

In Pavement Analyst, this configuration is done at the PMS Analysis Column window, located under **Pavement Analyst > Utilities > PMS Analysis Columns** menu. The system treats each column configured in this window as a variable and will apply the corresponding analysis routine to it.

Summary of the usage of each PMS Analysis Column is explained as follows.

- **Decision Variable** — This field determines whether the selected column will be used in developing the treatment decision trees. S
- **Class Variable** — This field determines whether the selected column will be used in developing the performance model structure.
- **Deteriorates** — This field determines whether the system will treat the selected column as “performance index” (PI) and apply a performance model to it. Specifically, when selected, the column will appear:
  - In the Condition Attributes drop-down list in the Improvements pane of the Treatments window.
  - In the PMS Analysis Index drop-down list in the Network Analysis window.
  - As columns in the Road Sections pane of the Section Current Needs window.
  - As rows in the Attributes pane of the Performance Model window.
- **Upper Level Dec Tree Variable** — This field determines whether the select column will be used in developing the upper-level treatment decision trees.
- **Used in Expressions** — This field determines whether the selected column will be used in calculated expressions.
- **Analysis Scope Variable** — This field determines whether the selected column will be used in defining the scope of the network optimization analysis.
- **Default in Analysis** — This field contains a value that is used to supply a value for the column when it has no value in either the Network Master.
- **Allow Change After Treatment** — This field determines whether the selected column's values will change after a treatment where the values are not based on a performance model (i.e., a non-PI-based attribute, for example, Pavement Type change after a specific type of treatment).
- **Change with Year SQL** — This field contains the SQL that determines how the value of the non-PI-based attribute changes annually in the future for scenario analyses, using the value from previous year as input, for example, AADT (to represent an annual growth) and Pavement Age (to calculate the next year from last year).
- **Update Order** — For non-PI-based attributes, this field contains a number that indicates the order in which the attributes will be updated when multiple attributes either have "Change with Year SQL" in this window or are shown in the Other Improvements pane in the Treatments window.
- **Is Constr. Column** — This field determines whether that the selected column may be used as a constraint in the network optimization analysis.
- **Is Add Constr. Column** — This field determines whether that the selected column may be used to set up the sub-division constraint in the network optimization analysis.
- **Ch with Time Groovy Script** — This field is equivalent to the Change with Year SQL field except that Groovy scripts are utilized rather than SQL.
- **Groovy Script for Calculated Columns** — This column shows the Groovy script that calculates the value of the column. It is used in analysis in all future years.

Analysis Columns Configuration window

PMS Analysis Columns									
* Column ID	Deteriorates	Perf Class Variable	Upper Level Dec Tree Variable	Decision Variable	Is Add Constr. Column	Used in Expressions	Analysis Scope Variable	Is Constr. Column	MWP
AADT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ASSET_CONDITION_STA...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BENEFIT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
CITY_ID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COUNTY_ID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
DISTRICT_ID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
IS_NHS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
LANE_MILES	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
LENGTH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MWP_PROJECT_STATUS...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MWP_PROJECT_STATUS...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
NUMBER_OF_LANES	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
OWNER_ID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PAVE_AGE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PMS_BUDGET_CAT_ID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PMS_FAULTING	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
PMS_FUNC_CLASS_ID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PMS_IRI	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

## 1.2 Calculated Expressions

The purpose of the Calculated Expressions window is to supply user-defined information for some parameters used in analysis. This window also provide user-defined information for some parameters used in analysis. The system permits 4 parameters to be defined using Calculated Expressions:

- Analysis index Weight Factor
- Analysis Priority
- Budget Category
- Treatment Cost

The Calculated Expressions window contains three panes: Expressions pane on the left, SQL pane in the bottom left, and Columns pane on the right.

Column ID	Column Label	LIST COLUMN
PMS_BUDGET_CAT_ID	Budget Group	1
AADT	AADT	
NUMBER_OF_LANES	Number of Lanes	
PMS_SECTION_ID	PMS Section #	
TREATMENT_COST	Treatment Cost	
BENEFIT	Benefit	
WC_ID	Pavement Type	1
LANE_MILES	Total Lane Miles	
LENGTH	Length	
SEC_WIDTH	Section Width	
OWNER_ID	Administrative Unit	1
STATE_OWNER_ID	State Owner	1
PAVE_AGE	Pvmnt Age	
PMS_IRI	IRI	
PMS_PCT_CRACKING	Cracking (%)	
PMS_FAULTING	Faulting	
COUNTY_ID	County	1
PMS_SURF_TYPE	Surface Type (Detailed)	1

## Description of Available Expressions

**Analysis Index Weight Factor** - This parameter affects the benefits resulting from a scenario analysis regardless of the objective of the analysis. An SQL expression is required for this parameter.

**Analysis Priority** - This parameter is a single formula that is the priority to select candidate treatment that are generated from Decision Tree, for each section in Network Master. It is applied in network analysis when the prioritization method is chosen.

**Budget Category** - When this parameter is selected, every record in the Budget Categories window is entered in the Expressions pane.

**Treatment Cost** - This parameter is composed of the set of values of all treatment costing methods. An SQL expression is required for each treatment cost method and is entered in the SQL pane.

## Expressions Pane

The Expression pane allows you to configure the value of the parameter selected in the drop-down list in the upper left corner of the Calculated Expressions window.

## SQL Pane

The SQL pane in the bottom left corner of the window contains the calculated Oracle SQL expression pertinent to the currently selected parameter and record in the Expression pane. It is this expression that is used in analysis to provide the appropriate calculation.

## Column Pane

The Columns pane on the right side contains the list of columns that may be used in expressions. If a column is a list, then a hyperlink is provided in the List Column to display the values in the list

## 1.2.1 How to Add Treatment Cost Calculation

The cost of each treatment is determined by two components: Unit Cost and Cost Calculating Method.

**Unit cost** - can be defined and stored for each treatment and admin unit in Treatment Costs screen.

**Cost** - specifies the method by which the cost is calculated. The method is selected from a drop-down list that contains the available unit-cost calculations. Out of the box, the system provides two methods to calculate the total cost from unit cost: "**Unit\_Cost \* Lane Mile**", and "**Unit\_Cost \* Sq Feet**"

## 1.3 Treatments

Treatment Library provides the system with details of all the treatments that can be used when undertaking maintenance of the pavement and enables these to be selected when undertaking analyses. Treatments are used in all analyses, along with decision trees, to provide details of the treatment type and costs of recommended future projects as well as the condition consequences of these projects.

The Treatments window has 3 panes of information/settings: Treatments, Improvements, and Other Improvements.

**Treatments pane** - lists all treatments used for long-term projects and the costs associated with each.

**Improvement pane** - After the treatment selected in the Treatments pane is applied, the condition attributes listed in the Improvements pane will change according to the rules configured in this pane.

**Other Improvement** - After the treatment selected in the Treatments pane is applied, the non-PI-based attributes listed in the Other Improvements pane will change according to the rules configured in this pane.

### 1.3.1 Create New Treatment - [Click Here for Treatments Exercises](#)

The objective of this lesson is for the participant to learn how to Insert a new record in the Treatments window.

At the end of this lesson, the user should be able to add a new record in the Treatments window and save successfully.

In this example, we add a new record in the Treatments windows by performing the following steps:

1. Open the Treatments window: **Pavement Analyst > Setup > Network Analysis Setup > Treatments**.

Pavement Analyst > Setup > Network Analysis Setup > Treatments ☆ Save Reload

ID	* Unit Cost	Inactive?	* Treatment Name	* Selection Priority	Exclusion Priority	Exclusion Years	Date Update	User Update	Comments	Cost	Bud.
545	\$3.00	<input checked="" type="checkbox"/>	AC Maintenance	10	40	4	7/2/2019	ALEX		Sq.Yd * Unit \$	Proc
547	\$5.00	<input type="checkbox"/>	AC Preservation	25	20	8	7/2/2019	ALEX		Sq.Yd * Unit \$	Pres
441	\$25.00	<input type="checkbox"/>	AC Reconstruction	60	5	15	7/2/2019	ALEX		Sq.Yd * Unit \$	Recc
548	\$15.00	<input type="checkbox"/>	AC Rehabilitation	40	15	12	7/2/2019	ALEX		Sq.Yd * Unit \$	Rehe
546	\$9.00	<input type="checkbox"/>	AC Thin Overlay - Preservation	30	30	8	7/2/2019	ARIF		Sq.Yd * Unit \$	Pres
0	\$1.00	<input type="checkbox"/>	Do Nothing	0	1000	0	4/5/2019	TYLER			
761	\$30.00	<input type="checkbox"/>	High Friction Surface Treatment (HFST)	85	85	8	1/5/2020	TYLER		Sq.Yd * Unit \$	Safe
551	\$4.00	<input checked="" type="checkbox"/>	PCC Maintenance	20	35	8	12/10/2019	MAGDY		Sq.Yd * Unit \$	Proa
550	\$8.00	<input checked="" type="checkbox"/>	PCC Preservation	32	25	10	12/10/2019	MAGDY		Sq.Yd * Unit \$	Pres
553	\$40.00	<input checked="" type="checkbox"/>	PCC Reconstruction	65	0	25	12/10/2019	MAGDY		Sq.Yd * Unit \$	Recc
552	\$25.00	<input checked="" type="checkbox"/>	PCC Rehabilitation	55	10	20	12/10/2019	MAGDY		Sq.Yd * Unit \$	Rehe

<< < 1 of 13 total rows > >>

* Condition Attributes	Date Update	User Update	Condition Improvement Script	Future Deterioration Ty
Rutting	6/25/2019	ARIF	Excellent - 0	Improvement deteriorate
IRI	6/29/2019	ARIF	Good - 100	Improvement deteriorate
Cracking (%)	1/5/2020	TYLER	Good - 0.1	Improvement deteriorate

<< < 1 of 3 total rows > >>

* Changing Attributes	Condition Improvement Script Other	Date Update	User Update	Com
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<< < 0 of 0 total rows > >>

2. Right-click in the Treatments pane and select **Insert**.

Pavement Analyst > Setup > Network Analysis Setup > Treatments ☆ Save Reload

ID	* Unit Cost	Inactive?	* Treatment Name	* Selection Priority	Exclusion Priority	Exclusion Years	Date Update	User Update	Comments	Cost	Bud.
545	\$3.00	<input checked="" type="checkbox"/>	AC Maintenance	10	40	4	7/2/2019	ALEX		Sq.Yd * Unit \$	Proc
547	\$5.00	<input type="checkbox"/>	AC Preservation	25	20	8	7/2/2019	ALEX		Sq.Yd * Unit \$	Pres
441	\$25.00	<input type="checkbox"/>	AC Reconstruction	60	5	15	7/2/2019	ALEX		Sq.Yd * Unit \$	Recc
548	\$15.00	<input type="checkbox"/>	AC Rehabilitation	40	15	12	7/2/2019	ALEX		Sq.Yd * Unit \$	Rehe
546	\$9.00	<input type="checkbox"/>	AC Thin Overlay - Preservation	30	30	8	7/2/2019	ARIF		Sq.Yd * Unit \$	Pres
0	\$1.00	<input type="checkbox"/>	Do Nothing	0	1000	0	4/5/2019	TYLER			
761	\$30.00	<input type="checkbox"/>	High Friction Surface Treatment (HFST)	85	85	8	1/5/2020	TYLER		Sq.Yd * Unit \$	Safe
551	\$4.00	<input checked="" type="checkbox"/>	PCC Maintenance	20	35	8	12/10/2019	MAGDY		Sq.Yd * Unit \$	Proa
550	\$8.00	<input checked="" type="checkbox"/>	PCC Preservation	32	25	10	12/10/2019	MAGDY		Sq.Yd * Unit \$	Pres
553	\$40.00	<input checked="" type="checkbox"/>	PCC Reconstruction	65	0	25	12/10/2019	MAGDY		Sq.Yd * Unit \$	Recc
552	\$25.00	<input checked="" type="checkbox"/>	PCC Rehabilitation	55	10	20	12/10/2019	MAGDY		Sq.Yd * Unit \$	Rehe

<< < 1 of 13 total rows > >>

* Condition Attributes	Date Update	User Update	Condition Improvement Script	Future Deterioration Ty
Rutting	6/25/2019	ARIF	Excellent - 0	Improvement deteriorate
IRI	6/29/2019	ARIF	Good - 100	Improvement deteriorate
Cracking (%)	1/5/2020	TYLER	Good - 0.1	Improvement deteriorate

<< < 1 of 3 total rows > >>

* Changing Attributes	Condition Improvement Script Other	Date Update	User Update	Com
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<< < 0 of 0 total rows > >>

3. Overwrite the Treatment Name with the new (treatment) name by highlighting the text and then typing the name.

4. Populate priority, unit cost, budget category, work code information, and all other fields that are applicable.

Pavement Analyst > Setup > Network Analysis Setup > Treatments

Save
Reload

* Treatments											
ID	* Unit Cost	Inactive?	* Treatment Name	* Selection Priority	Exclusion Priority	Exclusion Years	Date Update	User Update	Comments	Cost	Bud.
545	\$3.00	<input type="checkbox"/>	AC Maintenance	10	40	4	7/2/2019	ALEX		Sq.Yd * Unit \$	Proa
	\$22.50	<input type="checkbox"/>	Test - Maint Treatment	22	20	6	3/6/2020	NYEKAN		Lane Miles * Unit \$	Rec
547	\$5.00	<input type="checkbox"/>	AC Preservation	25	20	8	7/2/2019	ALEX		Sq.Yd * Unit \$	Pres
441	\$25.00	<input type="checkbox"/>	AC Reconstruction	60	5	15	7/2/2019	ALEX		Sq.Yd * Unit \$	Recc
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546	\$9.00	<input type="checkbox"/>	AC Thin Overlay - Preservation	30	30	8	7/2/2019	ARIF		Sq.Yd * Unit \$	Pres
0	\$1.00	<input type="checkbox"/>	Do Nothing	0	1000	0	4/5/2019	TYLER			
761	\$30.00	<input type="checkbox"/>	High Friction Surface Treatment (HFST)	85	85	8	1/5/2020	TYLER		Sq.Yd * Unit \$	Safe
551	\$4.00	<input checked="" type="checkbox"/>	PCC Maintenance	20	35	8	12/10/2019	MAGDY		Sq.Yd * Unit \$	Proa
550	\$8.00	<input checked="" type="checkbox"/>	PCC Preservation	32	25	10	12/10/2019	MAGDY		Sq.Yd * Unit \$	Pres
553	\$40.00	<input checked="" type="checkbox"/>	PCC Reconstruction	65	0	25	12/10/2019	MAGDY		Sq.Yd * Unit \$	Recc

of 14 total rows

Improvements

\* Condition Attributes

Date Update

User Update

Condition Improvement Script

Future Deterioration Ty

Other Improvements

\* Changing Attributes

Condition Improvement Script Other

Date Update

User Update

Com

5. Right-click in the Improvements pane and select **Insert**.

Pavement Analyst > Setup > Network Analysis Setup > Treatments

Save
Reload

* Treatments											
ID	* Unit Cost	Inactive?	* Treatment Name	* Selection Priority	Exclusion Priority	Exclusion Years	Date Update	User Update	Comments	Cost	Bud.
545	\$3.00	<input type="checkbox"/>	AC Maintenance	10	40	4	7/2/2019	ALEX		Sq.Yd * Unit \$	Proa
	\$22.50	<input type="checkbox"/>	Test - Maint Treatment	22	20	6	3/6/2020	NYEKAN		Lane Miles * Unit \$	Rec
547	\$5.00	<input type="checkbox"/>	AC Preservation	25	20	8	7/2/2019	ALEX		Sq.Yd * Unit \$	Pres
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548	\$15.00	<input type="checkbox"/>	AC Rehabilitation	40	15	12	7/2/2019	ALEX		Sq.Yd * Unit \$	Rehe
546	\$9.00	<input type="checkbox"/>	AC Thin Overlay - Preservation	30	30	8	7/2/2019	ARIF		Sq.Yd * Unit \$	Pres
0	\$1.00	<input type="checkbox"/>	Do Nothing	0	1000	0	4/5/2019	TYLER			
761	\$30.00	<input type="checkbox"/>	High Friction Surface Treatment (HFST)	85	85	8	1/5/2020	TYLER		Sq.Yd * Unit \$	Safe
551	\$4.00	<input checked="" type="checkbox"/>	PCC Maintenance	20	35	8	12/10/2019	MAGDY		Sq.Yd * Unit \$	Proa
550	\$8.00	<input checked="" type="checkbox"/>	PCC Preservation	32	25	10	12/10/2019	MAGDY		Sq.Yd * Unit \$	Pres
553	\$40.00	<input checked="" type="checkbox"/>	PCC Reconstruction	65	0	25	12/10/2019	MAGDY		Sq.Yd * Unit \$	Recc

of 14 total rows

Improvements

\* Condition Attributes

Date Update

User Update

Condition Improvement Script

Future Deterioration Ty

Other Improvements

\* Changing Attributes

Condition Improvement Script Other

Date Update

User Update

Com

Insert

Sort

Copy Rows to Clipboard (CSV)

Copy All to Clipboard (CSV)

6. Configure condition improvements as a result of the treatment by populate all fields that are applicable.

Pavement Analyst > Setup > Network Analysis Setup > Treatments ☆ Save Reload

ID	Unit Cost	Inactive?	Treatment Name	Selection Priority	Exclusion Priority	Exclusion Years	Date Update	User Update	Comments	Cost	Bud.
545	\$3.00	<input type="checkbox"/>	AC Maintenance	10	40	4	7/2/2019	ALEX		Sq.Yd * Unit \$	Proa
546	\$22.50	<input type="checkbox"/>	Test - Maint Treatment	22	20	6	3/6/2020	NYEKAN		Lane Miles * Unit \$	Rec
547	\$5.00	<input type="checkbox"/>	AC Preservation	25	20	8	7/2/2019	ALEX		Sq.Yd * Unit \$	Presi
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0	\$1.00	<input type="checkbox"/>	Do Nothing	0	1000	0	4/5/2019	TYLER			
761	\$30.00	<input type="checkbox"/>	High Friction Surface Treatment (HFST)	85	85	8	1/5/2020	TYLER		Sq.Yd * Unit \$	Safe
551	\$4.00	<input checked="" type="checkbox"/>	PCC Maintenance	20	35	8	12/10/2019	MAGDY		Sq.Yd * Unit \$	Proa
550	\$8.00	<input checked="" type="checkbox"/>	PCC Preservation	32	25	10	12/10/2019	MAGDY		Sq.Yd * Unit \$	Presi
553	\$40.00	<input checked="" type="checkbox"/>	PCC Reconstruction	65	0	25	12/10/2019	MAGDY		Sq.Yd * Unit \$	Recc

<< 2 of 14 total rows >>

Condition Attributes	Date Update	User Update	Condition Improvement Script	Future Deterioration Ty
IRI	3/6/2020	NYEKAN	Add 0.25 to current value 1	New PC model

Changing Attributes	Condition Improvement Script Other	Date Update	User Update	Com
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7. Right-click in the Other Improvements pane and select **Insert**.

Pavement Analyst > Setup > Network Analysis Setup > Treatments ☆ Save Reload

ID	Unit Cost	Inactive?	Treatment Name	Selection Priority	Exclusion Priority	Exclusion Years	Date Update	User Update	Comments	Cost	Bud.
545	\$3.00	<input type="checkbox"/>	AC Maintenance	10	40	4	7/2/2019	ALEX		Sq.Yd * Unit \$	Proa
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441	\$25.00	<input type="checkbox"/>	AC Reconstruction	60	5	15	7/2/2019	ALEX		Sq.Yd * Unit \$	Recc
548	\$15.00	<input type="checkbox"/>	AC Rehabilitation	40	15	12	7/2/2019	ALEX		Sq.Yd * Unit \$	Rehe
546	\$9.00	<input type="checkbox"/>	AC Thin Overlay - Preservation	30	30	8	7/2/2019	ARIF		Sq.Yd * Unit \$	Presi
0	\$1.00	<input type="checkbox"/>	Do Nothing	0	1000	0	4/5/2019	TYLER			
761	\$30.00	<input type="checkbox"/>	High Friction Surface Treatment (HFST)	85	85	8	1/5/2020	TYLER		Sq.Yd * Unit \$	Safe
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550	\$8.00	<input checked="" type="checkbox"/>	PCC Preservation	32	25	10	12/10/2019	MAGDY		Sq.Yd * Unit \$	Presi
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<< 2 of 14 total rows >>

Condition Attributes	Date Update	User Update	Condition Improvement Script	Future Deterioration Ty
IRI	3/6/2020	NYEKAN	Add 0.25 to current value 1	New PC model

Changing Attributes	Condition Improvement Script Other	Date Update	User Update	Com

Insert  
 Sort  
 Find  
 Copy Rows to Clipboard (CSV)  
 Copy All to Clipboard (CSV)

8. Configure other improvements (e.g. reset pavement age) by populate all fields that are applicable.

<div>  Pavement Analyst &gt; Setup &gt; Network Analysis Setup &gt; Treatments <span>☆</span> </div> <div> Save ReLoad </div>																																																																																																																																																										
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9. Click the **Save** button to save the record.

Pavement Analyst > Setup > Network Analysis Setup > Treatments

[Save](#) [Reload](#)

ID	* Unit Cost	Inactive?	* Treatment Name	* Selection Priority	Exclusion Priority	Exclusion Years	Date Update	User Update	Comments	Cost	Bud.
545	\$3.00	<input type="checkbox"/>	AC Maintenance	10	40	4	7/2/2019	ALEX		Sq Yd * Unit \$	Proa
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<< 2 of 14 total rows >>

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IRI	3/6/2020	NYEKAN	Add 0.25 to current value 1	New PC model

* Other Improvements	Condition Improvement Script Other	Date Update	User Update	Com
Overall Performance Index (OPI)	Improve to 4.00	3/6/2020	NYEKAN	

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