



MANAGEMENT SCIENCE ASSOCIATES, INC.



Spectrumatrix Quick Start Guide

Spectrumetrix - Table of Contents

- Page 3: Spectrumetrix Online Report Portal Overview
- Page 4: Login to Spectrumetrix Online Report Portal
- Page 5: General Navigation - Tabs and Reports
- Page 6: Shared Reports - Viewing a Shared Report
- Page 7: Shared Reports - Customizing a Shared Report
- Page 8: Shared Reports – Customize in My Reports Folder
- Page 9-10: Shared Reports - The Design Tab
- Page 11: Build a Custom Report - Start a New Report
- Page 12: Build a Custom Report - Connect to the Data (Cube)
- Page 13: Build a Custom Report - The Design Tab
- Page 14-15: Build a Custom Report - Location and Time Attributes
- Page 16-18: Build a Custom Report - Measures
- Page 19: Build a Custom Report - Custom Themes and Formats
- Page 20: Build a Custom Report - Visual Options
- Page 21-25: Build a Custom Report - Charting
- Page 26: Export a Report - Excel, PDF
- Page 27: Saving a Report - Titles and Descriptions
- Page 28: Spectrumetrix Online Report Portal Helps

Spectrumetrix – Online Report Portal Overview



Welcome to SPECTRUMETRIX

About SPECTRUMETRIX | MSA™

Working with Management Science Associates Inc., Spectrumetrix brings you enhanced, web-based, dynamic versions of the various reports which hundreds of gaming operators, equipment manufacturers, analysts, investors, regulators, attorneys and other gaming-related professionals have come to trust.

Spectrumetrix Online Report Portal, is a display tool that enhances the users ability to quickly access data for actionable decisions in formats that are easy to develop and easy to read. This quickstart guide is intended to shorten the learning curve so that gaming industry leaders can in a timely way gain insights into gaming financial data.

Log In to Spectrumetrix Online Report Portal

Active subscribers to Spectrumetrix Reports can access the Spectrumetrix Online Report Portal by three different ways.

1. A user may browse to and login directly at this URL: <https://gaming.msa.com/>
2. Opening the analysis Excel spreadsheet and then selecting the “Open In Spectrumetrix Online Report Portal” button in the bottom left corner of most sheets which will direct you to the Log In page and then directly to the matching analysis.
3. From the Spectrumetrix website, click on the “My Account” menu link and then the “Spectrumetrix Online Report Portal” menu link. Then click on the “Access Online Report Portal” button



General Navigation - Tabs and Reports

Upon login the user will see this screen: Available will be shared public reports titled Shared Reports, and My Reports.

The View tab, is primarily to read reports. The Design mode is primarily to customize/build reports. The underlined tab is the one chosen.

Shared Reports are the over 40 canned reports that are based on the Spectrum regular monthly published reports. They can be opened and manipulated while in the view window, but not saved to within the Shared Reports folder.

My Reports is the folder used to save any changes. The user must save it to their folder, where it is only visible to that user. A user can save a Shared Report to the My Reports Folder and save/manipulate/customize as needed.

The screenshot displays the SPECTRUMETRIX™ web application interface. At the top, the header includes the logo and the text "POWERED BY MANAGEMENT SCIENCE ASSOCIATES". Below the header, there are two tabs: "View" and "Design". The "View" tab is currently selected and underlined. A red box highlights the "View" tab with the text "View Tab/Design Tabs".

The main content area is divided into two sections. On the left, there is a "My Reports" folder containing several reports, each with a "NEW" badge. A red box highlights this section with the text "Private reports (customizable)". Below this is a "Spectrumetrix" folder containing a list of public reports. A red box highlights this section with the text "Public Reports (not customizable)".

On the right side of the interface, there is a sidebar showing details for selected reports. Each report entry includes a yellow cube icon, the report name, date modified, modified by, connection, database, and cube. The reports shown are:

- Report name: AC L12M/...
Date Modified: 2/17/202...
Modified: Keith Lunevich
Connection: xmla
Database: SpectrumMSA
Cube: Spectrum
- Report name: AC Month
Date Modified: 2/17/202...
Modified: Keith Lunevich
Connection: xmla
Database: SpectrumMSA
Cube: Spectrum
- Report name: AC/L12M/...
Date Modified: 2/17/202...
Modified: Keith Lunevich
Connection: xmla
Database: SpectrumMSA
Cube: Spectrum
- Report name: AC/L3M/C
Date Modified: 2/17/202...
Modified: Keith Lunevich
Connection: xmla
Database: SpectrumMSA
Cube: Spectrum
- Report name: AC/L3M/C
Date Modified: 2/17/202...
Modified: Keith Lunevich
Connection: xmla
Database: SpectrumMSA
Cube: Spectrum
- Report name: AC/L3M/C
Date Modified: 2/26/202...
Modified: Keith Lunevich
Connection: xmla
Database: SpectrumMSA
Cube: Spectrum

Shared Reports - Viewing a Shared Report

This screen shows the “East Coast/Month” report with the month of January 2021 selected. The selected report will be highlighted in red.

Shared Reports

The screenshot displays the SPECTRUMETRIX software interface. The top navigation bar includes 'View' and 'Design' tabs. A search bar is located below the navigation. The left sidebar shows a tree view of reports under 'Spectrumetrix'. The 'East Coast/Month' report is highlighted in red. The right pane shows a 'Shared Report' configuration for 'State - Casino' with 'JANUARY 2021' selected. Below the configuration is a data table with columns for 'State - Casino', 'Slot Handle', and 'Slot Handle PY'.

State - Casino	Slot Handle	Slot Handle PY
Foxwoods	292,249,293	401,609,374
Mohegan Sun	441,083,522	529,040,343
Connecticut	733,332,815	930,649,717
Delaware Park	180,210,600	140,441,200
Dover Downs	146,107,500	135,329,100
Harrington Raceway	99,867,700	81,926,600
Delaware	426,185,800	357,696,900
Big Easy	49,961,320	43,575,599
Calder	87,123,814	117,919,969
Casino Miami	90,547,402	92,795,028
Dania	57,962,859	57,326,080
Gulfstream Park	60,262,075	69,462,478
Hialeah Park	107,814,430	117,131,676
Isle Pompano	99,474,430	127,741,444
Magic City	124,586,684	138,400,415
Florida	677,733,014	764,352,689

Shared Reports - Customize a Shared Report

To manipulate, or customize a shared report, first select your target report from the Shared Reports folder.

1. Select a report from “Shared Reports” folder.
2. Click the “Save” icon.
3. Make sure that the “My Reports” folder is selected in the “Save Report” popup window and click on the “Add Report” button.
4. The previous shared report will now be visible in the “My Reports” folder.

The screenshot shows the SPECTRUMETRIX™ interface. The main window displays a list of reports under the 'My Reports' folder. A 'Save Report' dialog box is open, showing the 'My Reports' folder selected. The 'Add Report' button is highlighted. The 'Save Report' dialog box also shows a search bar and a description field. The 'Save Report' button is highlighted in the dialog box. The 'My Reports' folder is highlighted in the main window. The 'East Coast/Month' report is highlighted in the main window. The 'Save Report' dialog box also shows a table of data at the bottom.

Report Name	Value 1	Value 2
Hialeah Park	107,814,430	117,131,676
Isle Pompano	99,474,430	127,741,444
Magic City	124,586,684	138,400,415
Florida	677,733,014	764,352,689

Shared Reports - Customize in My Reports Folder

Selecting a report to be customized in the “My Reports” folder and then right click will give the dropdown with the “Edit” function. Edit will put this report into the Design tab. Selecting the Design tab and connecting to Spectrum cube as directed will accomplish the same.

The screenshot shows the SPECTRUMETRIX™ interface. The left sidebar contains a 'My Reports' folder with several reports. A right-click context menu is open over the 'PA Slot Win' report, with the 'Edit' option selected. The main area displays a horizontal bar chart for 'State - Casino' in 'JANUARY 2021'. The chart shows slot win values for various casinos. Below the chart is a summary table.

State - Casino	Slot Win
Pennsylvania	140,740,379
Harrah's Philadelphia	10,428,014
Hollywood @ Penn Nat'l	12,728,998

Shared Reports - The Design Tab (1)

This report is in the Design tab, which allows you to customize the report. This example shows the four boxes that format the report: Rows, Measures, Filters, and Columns. The selected Rows and Measures can either be checked to be selected or dragged/dropped into their matching window. The Filters and Columns selections must be dragged/dropped (next slide). This shows State-Casino on Rows, and Time on columns, both are filterable.

Design Tab

Multiple Filter select icon (double checks)

Measures selected

1. Rows

2. Measures

3. Filters

4. Columns

State - Casino	Slot Win	Total Win	Slot Win Percent
All	2,797,532,136	3,878,420,603.5	72.13%
Arkansas	34,747,370	38,158,413.1	91.06%
Oaklawn	10,543,956	11,914,391.3	88.50%
Saracen	4,121,718	4,195,732.6	98.24%
Southland	20,081,696	22,048,289.2	91.08%
Colorado	59,693,366	68,751,457.7	86.82%
Black Hawk - All	42,931,488	50,801,104.9	84.51%
Central City - All	6,365,042	6,630,801.9	95.99%
Cripple Creek - All	10,396,835	11,319,551.	91.85%
Connecticut	76,268,661	76,268,661.	100.00%
Delaware	28,342,500	35,022,417.5	80.93%
Florida	49,933,747	49,933,747.	100.00%
Big Easy	2,974,579	2,974,579.	100.00%
Calder	7,946,436	7,946,436.	100.00%
	5,858,395	5,858,395.	100.00%
	3,531,024	3,531,024.	100.00%
Gulfstream Park	4,099,011	4,099,011.	100.00%
Hialeah Park	6,489,663	6,489,663.	100.00%
Isle Pompano	10,266,625	10,266,625.	100.00%
Magic City	8,768,014	8,768,014.	100.00%
Illinois	100,684,083	126,734,171.	79.45%
Indiana	153,095,517	202,125,741.	75.74%
Iowa	99,799,162	116,096,317.5	85.96%
Kansas	30,002,372	34,027,632.7	88.17%
Kentucky	20,786,510	20,786,510.	100.00%
Derby City Gaming	9,671,740	9,671,740.	100.00%
Ellis Park	802,409	802,409.	100.00%
Kentucky Downs	7,051,683	7,051,683.	100.00%

Shared Reports - The Design Tab (2)

This shows that the location attribute selected was State-Casino which after checked were dropped into rows and filters. The time attribute was dropped into columns, and filters.

SPECTRUMETRIX™
POWERED BY MANAGEMENT SCIENCE ASSOCIATES

View **Design**

Spectrum

Search

Casino

- Region - State - Casino
- Operator - Casino
- State - Casino
- Market - Casino
- AC_Operator - Casino
- State - Zip - Casino
- State-Casino2
- State_Operator_Casino
- State_ACOperator_Casino
- Casino
- State
- Operator
- Region
- Market
- AC_Operator
- Property Address1

Time - By Month

- Year - Quarter - Month
- Year - Month
- Month

Rows

- State - Casino

Measures

- Slot Win
- Total Win
- Slot Win Percent

Filters

- State - Casino
- Year - Month

Columns

- Year - Month

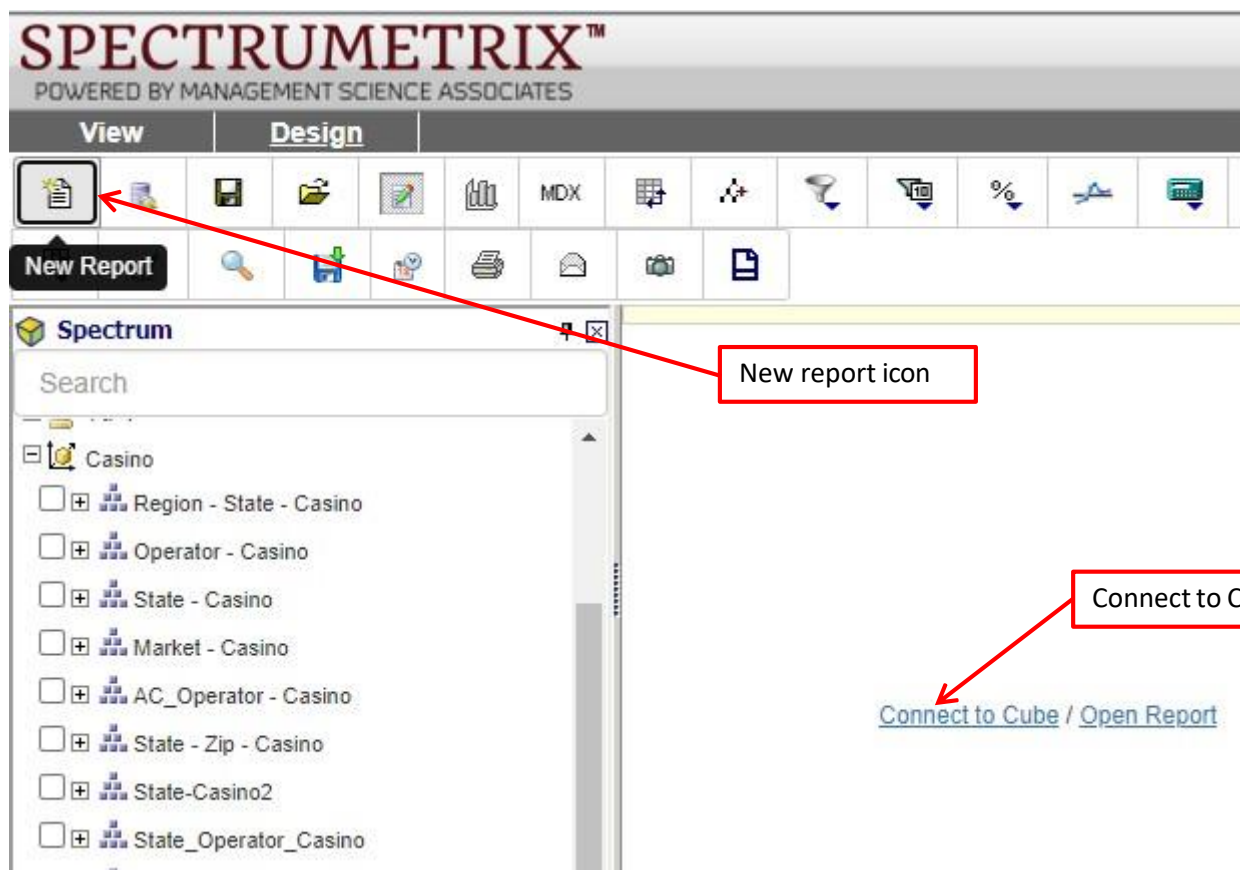
State - Casino Year - Month

All 2019, 2020

State - Casino	2019			2020	
	Slot Win	Total Win	Slot Win Percent	Slot Win	Total Win
All	33,379,194,062	44,920,832,058.5	74.31%	22,058,262,310	30,964,919,504.8
Arkansas	399,502,821	426,491,561.3	93.67%	322,811,748	358,074,476.
Oaklawn	144,644,164	155,482,058.6	93.03%	97,345,049	108,784,989.6
Saracen	13,199,817	13,395,962.5	98.54%	43,887,885	49,427,879.8
Southland	241,658,841	257,613,540.2	93.81%	181,578,814	199,861,606.6
Colorado	727,803,835	833,668,375.6	87.30%	525,842,394	560,234,122.2
Black Hawk - All	521,930,417	613,419,924.1	85.09%	368,992,230	400,028,234.3
Central City - All	76,428,625	79,678,312.3	95.92%	54,715,518	55,754,638.3
Cripple Creek - All	129,444,793	140,570,139.3	92.09%	102,134,645	104,451,249.6
Connecticut	982,228,641	982,228,641.	100.00%	657,130,823	657,130,823.
Delaware	366,025,824	437,446,188.5	83.67%	274,730,800	324,340,545.8
District of Columbia					13,548,200.4
Florida	574,651,570	574,651,570.	100.00%	341,319,859	341,319,859.
Big Easy	32,006,222	32,006,222.	100.00%	26,738,036	26,738,036.
Calder	93,203,242	93,203,242.	100.00%	47,423,132	47,423,132.
Casino Miami	68,707,404	68,707,404.	100.00%	42,094,806	42,094,806.
Dania	33,685,640	33,685,640.	100.00%	29,585,634	29,585,634.
Gulfstream Park	43,894,459	43,894,459.	100.00%	27,119,841	27,119,841.
Hialeah Park	82,705,840	82,705,840.	100.00%	45,721,656	45,721,656.
Isle Pompano	118,695,281	118,695,281.	100.00%	68,390,178	68,390,178.
Magic City	101,753,482	101,753,482.	100.00%	54,246,576	54,246,576.
Illinois	1,057,071,928	1,354,198,413.	78.06%	373,501,739	769,392,402.1
Indiana	1,864,087,172	2,247,037,960.	82.96%	1,292,191,573	1,711,711,953.8
Iowa	1,305,402,783	1,486,719,941.9	87.80%	1,015,430,229	1,167,714,202.1
Kansas	366,704,313	416,094,349.8	88.13%	271,499,431	299,532,543.
Kentucky	220,702,742	220,702,742.	100.00%	227,817,942	227,817,942.
Derby City Gaming	99,889,407	99,889,407.	100.00%	85,759,536	85,759,536.
Ellis Park	8,810,321	8,810,321.	100.00%	13,320,782	13,320,782.

Build a Custom Report - Start a New Report

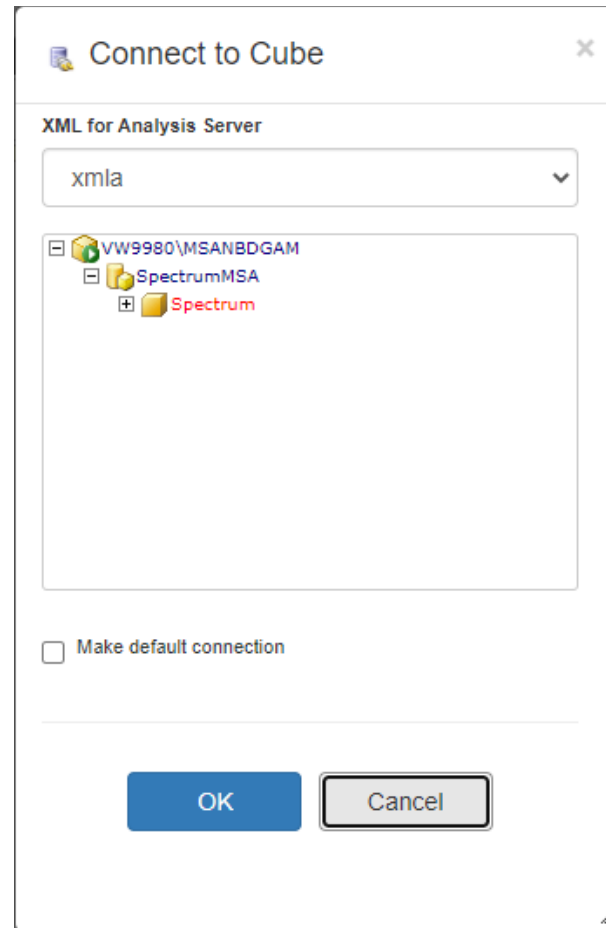
1. Select the New Report icon
2. Connect to Cube



Build a Custom Report - Connect to the Data (Cube)

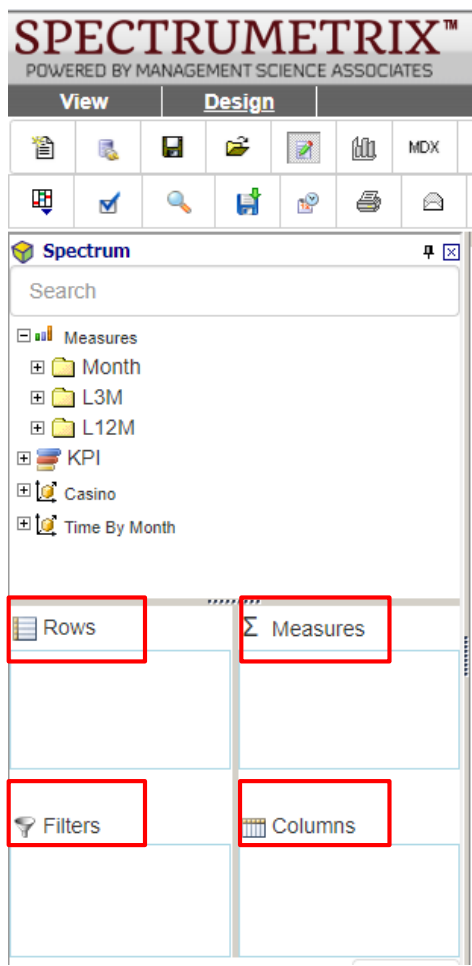
Select the “Spectrum” cube and click OK. This will enable user to access data stored in a central file (cube); this is same data used to populate the monthly Spectrumetrix reports.

To connect to the data base storing the Spectrum data, select: **Spectrum** > OK.

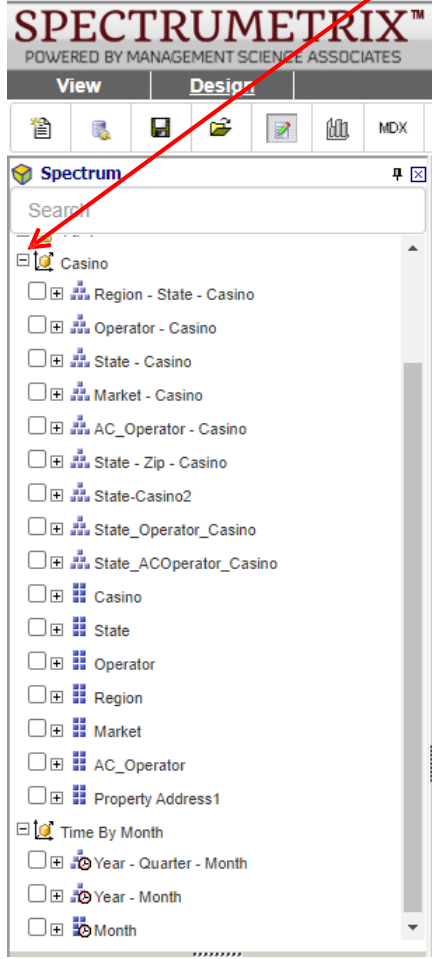


Build a Custom Report - The Design Tab

This is the beginning screen, that shows the attributes and the four table boxes: Rows, Measures, Filters, and Columns.



Begin by opening the Location (Casino) and Time (Time by Month) attributes. Click + to expand/open an attribute.



Build a Custom Report - Location and Time Attributes (1)

The locations and Time attributes need selected. Checking the location (State-Casino) will place it on rows, drag/drop it into filters dimension as well.

The Time dimension needs opened also, drag/drop it (Year-Quarter-Month) into the filter square as well.

SPECTRUM™
POWERED BY MANAGEMENT SCIENCE ASSOCIATES

View Design

Spectrum

Search

- Casino
 - Region - State - Casino
 - Operator - Casino
 - State - Casino
 - Market - Casino
 - AC_Operator - Casino
 - State - Zip - Casino
 - State_Casino2
 - State_Operator_Casino
 - State_ACOperator_Casino
- Casino
- State
- Operator
- Region
- Market
- AC_Operator
- Property Address1

Rows: State - Casino

Measures

Filters: State - Casino

Columns

SPECTRUM™
POWERED BY MANAGEMENT SCIENCE ASSOCIATES

View Design

Spectrum

Search

- Casino
 - Region - State - Casino
 - Operator - Casino
 - State - Casino
 - Market - Casino
 - AC_Operator - Casino
 - State - Zip - Casino
 - State_Casino2
 - State_Operator_Casino
 - State_ACOperator_Casino
- Casino
- State
- Operator
- Region
- Market
- AC_Operator
- Property Address1

Time By Month

- Year - Quarter - Month
- Year - Month
- Month

Rows: State - Casino

Measures: Total Win

Filters: State - Casino, Year - Quarter - Month

Columns

State - Casino	Total Win
All	593,876,615,454.7
Arkansas	2,599,114,697.8
Oaklawn	933,895,345.7
Saracen	73,212,997.
Southland	1,592,006,355.1
Colorado	11,492,921,355.4
Black Hawk - All	8,421,072,045.9
Central City - All	1,051,837,039.2
Cripple Creek - All	2,020,012,270.3
Connecticut	20,217,275,189.3
Delaware	7,957,028,312.5
District of Columbia	16,353,693.1
Florida	5,925,171,690.
Big Easy	682,216,018.
Calder	827,373,105.
Casino Miami	549,133,586.
Dania	151,635,408.
Gulfstream Park	660,884,088.
Hialeah Park	511,348,162.
Isle Pompano	1,646,083,872.
Magic City	896,497,451.
Illinois	21,716,649,070.8
Indiana	35,663,720,437.8
Iowa	20,832,603,298.
Kansas	3,426,723,280.
Kentucky	821,261,610.3
Derby City Gaming	213,608,972.
Ellis Park	52,453,099.4
Kentucky Downs	397,838,403.8
Newport Racing And Gaming	5,589,951.

Build a Custom Report - Location and Time Attributes (2)

Double click on the check box (so that there are two check marks displayed), then click on the drop down arrow and then select desired locations. Here New Jersey & New York have been chosen.

Repeat for the Time attribute, here the years 2017 to 2020 have been chosen.

SPECTRUMETRIX™
POWERED BY MANAGEMENT SCIENCE ASSOCIATES

View Design

Spectrum

Search

- Casino
 - Region - State - Casino
 - Operator - Casino
 - State - Casino
 - Market - Casino
 - AC_Operator - Casino
 - State - Zip - Casino
 - State-Casino2
 - State_Operator_Casino
 - State_ACOperator_Casino
 - Casino
 - State

State - Casino

New Jersey, New York

- Mississippi
- Missouri
- Nevada
- New Hampshire
- New Jersey
- New Mexico
- New York
- Ohio

OK Cancel

State - Casino Year - Quarter - Month

New Jersey, New York Multi-Select

State - Casino	Total Win	Total
<input checked="" type="checkbox"/> New Jersey	2,661,726,919.	2,906
<input checked="" type="checkbox"/> New York	2,348,469,543.	2,587

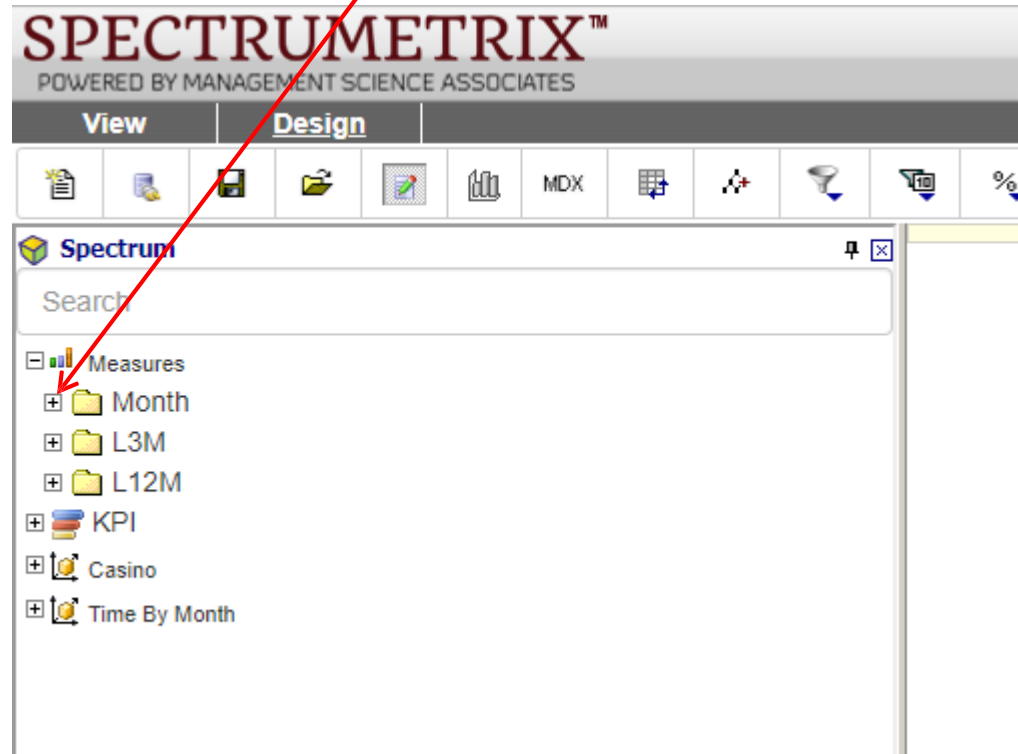
2017

- 2015
- 2016
- 2017
- 2018
- 2019
- 2020
- 2021

OK Cancel

Build a Custom Report – Measures (1)

The “Measures” are expanded to start. Click on the + sign to expand the desired sub group, usually Month (contains only the time period with in the selected month). L3M contains the Last 3 Months (from the selected month). L12M contains the Last 12 Months (from the selected month).



Build a Custom Report – Measures (2)

Select any combination of measures. They will appear in the Measures window in the order they were selected. To reorder the measures, drag/drop them up or down into the desired order of appearance within the Measures window.

In the first screen shot, “Slot Win”, “Table Win” and “Total Win” were chosen. Here in the second screen shot, “Total Win” was dragged above “Slot Win” in the Measures window, thus changing the order they appear on the columns.

The screenshot shows the Spectrum software interface. The pivot table displays data for 'State - Casino' in 'New Jersey, New York' for 'JANUARY 2021'. The measures are listed in the order: Slot Win, Table Win, Total Win. A red circle highlights the measure names in the table header. A red arrow points from the Measures window to the table header.

State - Casino	Slot Win	Table Win	Total Win
New Jersey	113,296,063	45,248,013	346,551,686
New York	177,416,622	6,360,000	187,346,477

The screenshot shows the Spectrum software interface. The pivot table displays data for 'State - Casino' in 'New Jersey, New York' for 'JANUARY 2022'. The measures are listed in the order: Total Win, Slot Win, Table Win. A red circle highlights the measure names in the table header. A blue arrow points from the Measures window to the table header, indicating the reordering.

State - Casino	Total Win	Slot Win	Table Win
New Jersey	346,551,686	113,296,063	45,248,013
New York	187,346,477	177,416,622	6,360,000

Build a Custom Report – Measures (3)

To remove a measure, drag/drop target measure outside the Measures window. In this example “Table Win” was removed (by dragging it outside the Measures box), automatically editing the report.

To add a measure, check another measure from the measure list. In this case “SportsBook Win” was chosen.

The screenshot shows the SPECTRUMETRIX interface. On the left, a tree view shows the hierarchy: Casino > State - Casino (checked). Below it, the 'Time By Month' section is expanded, showing 'Year - Quarter - Month' selected. At the bottom, the 'Rows' section contains 'State - Casino' and the 'Measures' section contains 'Total Win' and 'Slot Win'. A red box highlights the 'Measures' section.

State - Casino	Total Win	Slot Win
New Jersey	346,551,686.	113,296,063
New York	187,346,477.	177,416,622

The screenshot shows the SPECTRUMETRIX interface. On the left, the 'Measures' list is expanded, and 'SportsBook Win' is checked and highlighted with a red box. Below it, the 'Rows' section contains 'State - Casino' and the 'Measures' section contains 'Total Win', 'Slot Win', and 'SportsBook Win'.

State - Casino	Total Win	Slot Win	SportsBook Win
New Jersey	346,551,686.	113,296,063	82,640,979
New York	187,346,477.	177,416,622	3,569,855

Build a Custom Report - Custom Themes and Formats

To format/edit a report use the functions in the Edit toolbar, in this example the “Theme” button allowed us to chose a different color scheme.

This example uses the “Conditional formatting” button to format the “Total Win” cells with a green background and black text if the value is greater than 100 million. If the value is equal or less than 100 million, then the default formatting values will be used.

The screenshot shows the SPECTRUMETRIX interface with a report titled "State - Casino". The report table lists various states and their "Total" win values. A red box highlights the "Theme" button in the software's toolbar. The table data is as follows:

State - Casino	Total
All	3,410,35
Arkansas	42,72
Colorado	62,73
Connecticut	62,0
Delaware	42,437,013.3
District of Columbia	2,805,492.7
Florida	45,678,985
Illinois	26,230,289.6
Indiana	196,881,821
Iowa	199,117,657.1
Kansas	33,080,673.5
Kentucky	34,589,086
Louisiana	174,553,838
Maine	7,324,572.5
Maryland	128,763,516.4
Massachusetts	57,606,027.5
Michigan	113,165,518.8
Mississippi	191,655,715.1
Missouri	146,789,500
Nevada	761,849,000

The screenshot shows the SPECTRUMETRIX interface with a report titled "State - Casino". A "Conditional formatting" dialog box is open, showing the configuration for formatting the "Total Win" measure. A red box highlights the "Conditional formatting" button in the software's toolbar. The dialog box settings are:

- Type: Standard
- Measure: Total Win
- Font: [Black]
- Background: [Green]
- Condition: greater than 100000000

The report table in the background shows the "Total Win" values for various states, with some cells highlighted in green to indicate they meet the conditional formatting criteria.

Build a Custom Report - Visual Options

The Options button offers a variety of display and functional modifications to reports. The General tab enables display choices. The Apply button initiates the your choices.

The screenshot shows the 'Options' dialog box with the 'General' tab selected. The 'Apply' button is highlighted with a red box. A red arrow points from the 'Options' button in the software toolbar to the dialog box.

State - Casino	Slot Win	Table Win	Total Win
New Jersey	113,296,063	45,248,013	346,551,686
New York	177,416,622	6,360,000	187,346,477

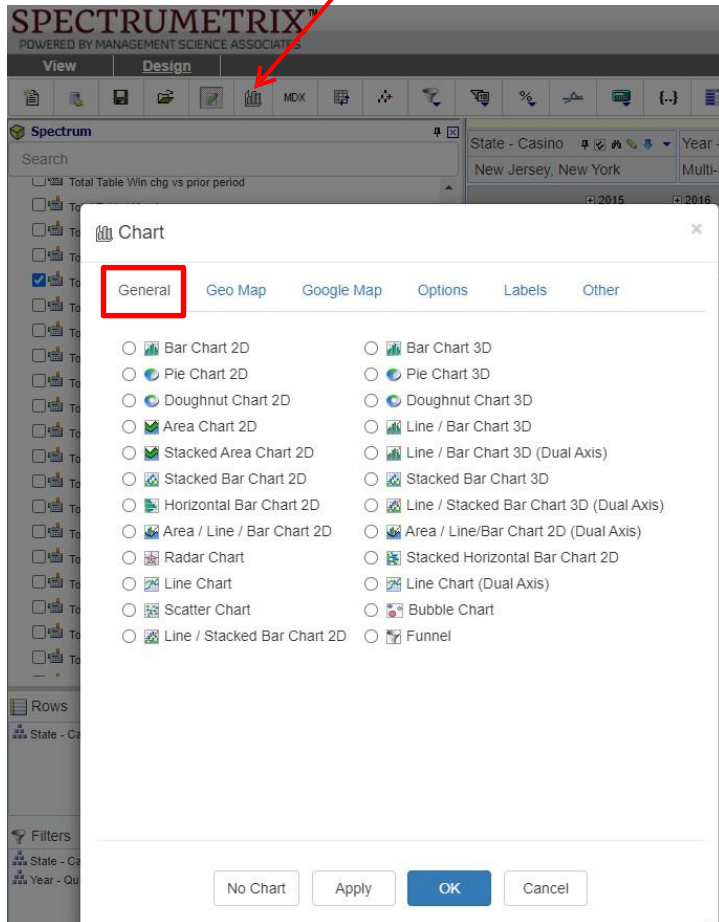
The Summary tab enables totals or averages, in this example Rows Summary is set to "Sum" and the rows are totaled with a Sum row. Columns Summary is checked "None".

The screenshot shows the 'Options' dialog box with the 'Summary' tab selected. The 'Sum' option for Rows Summary and the 'None' option for Columns Summary are highlighted with red boxes. A red arrow points from the 'Summary' tab in the software toolbar to the dialog box.

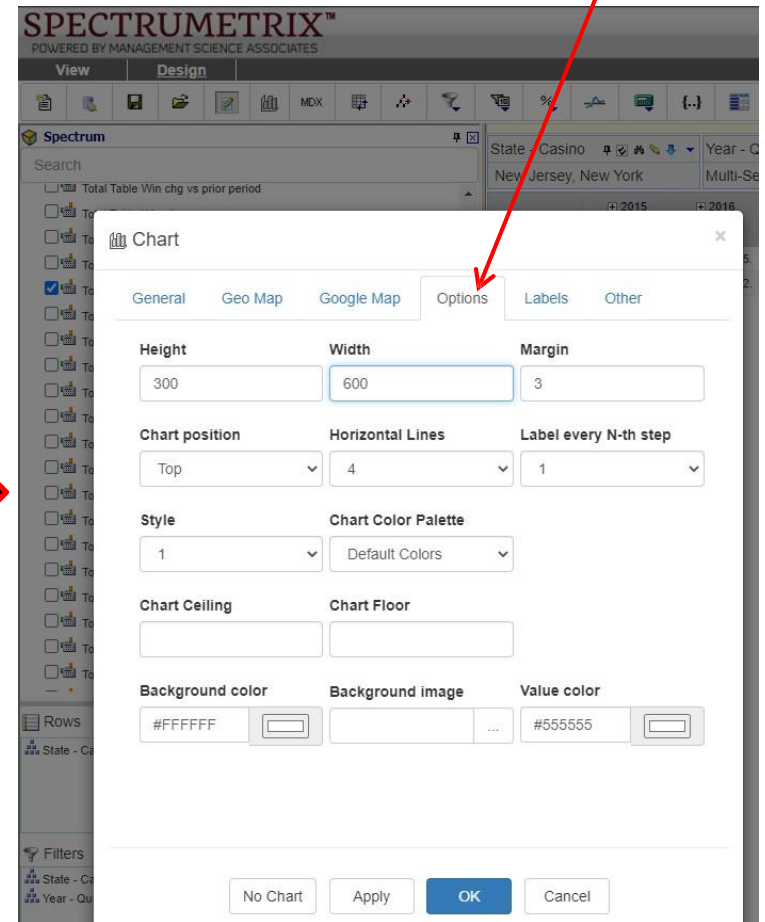
State - Casino	Slot Win	Table Win	Total Win
New Jersey	113,296,063	45,248,013	346,551,686
New York	177,416,622	6,360,000	187,346,477
Sum	290,712,685.00	51,608,013.00	533,898,163.00

Build a Custom Report – Charting (1)

To create a chart, select the Chart icon and then select the type of chart in the General tab.

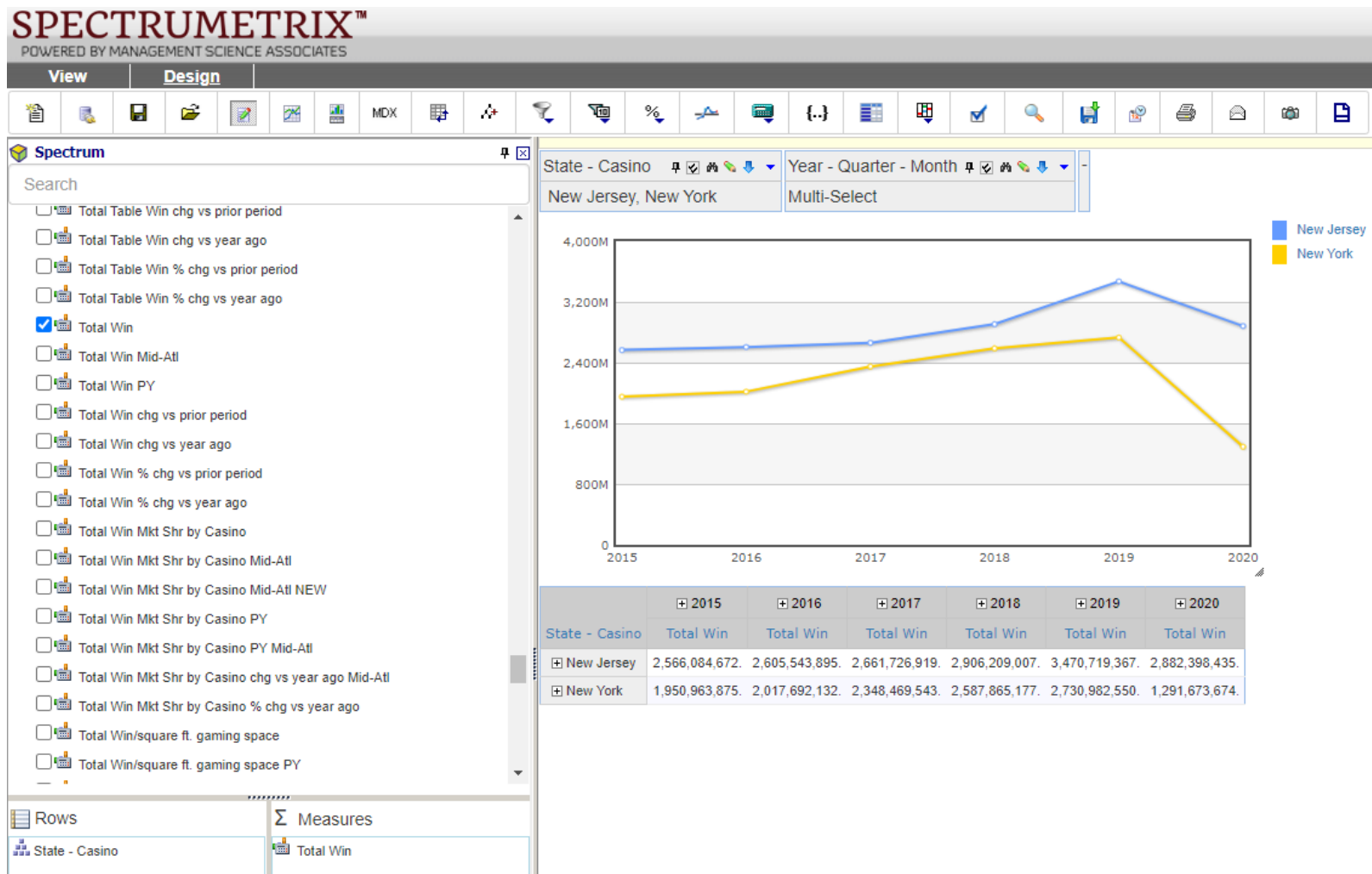


After selecting type of chart select the Options tab to customize the chart as needed.



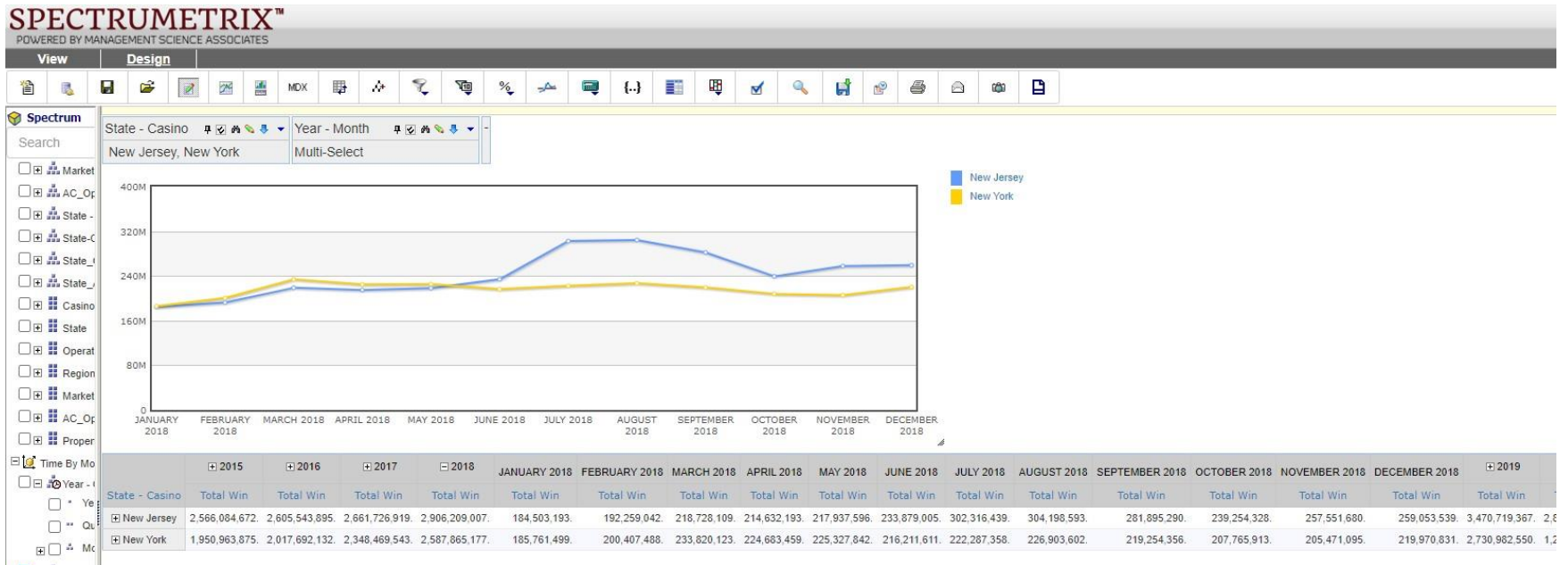
Build a Custom Report – Charting (2)

When Apply is selected, your chosen chart is displayed. This is a dynamic chart that reflects the table; any changes to the table will be reflected on the chart. This example shows the Total Win for each State and Year selected.



Build a Custom Report – Charting (3)

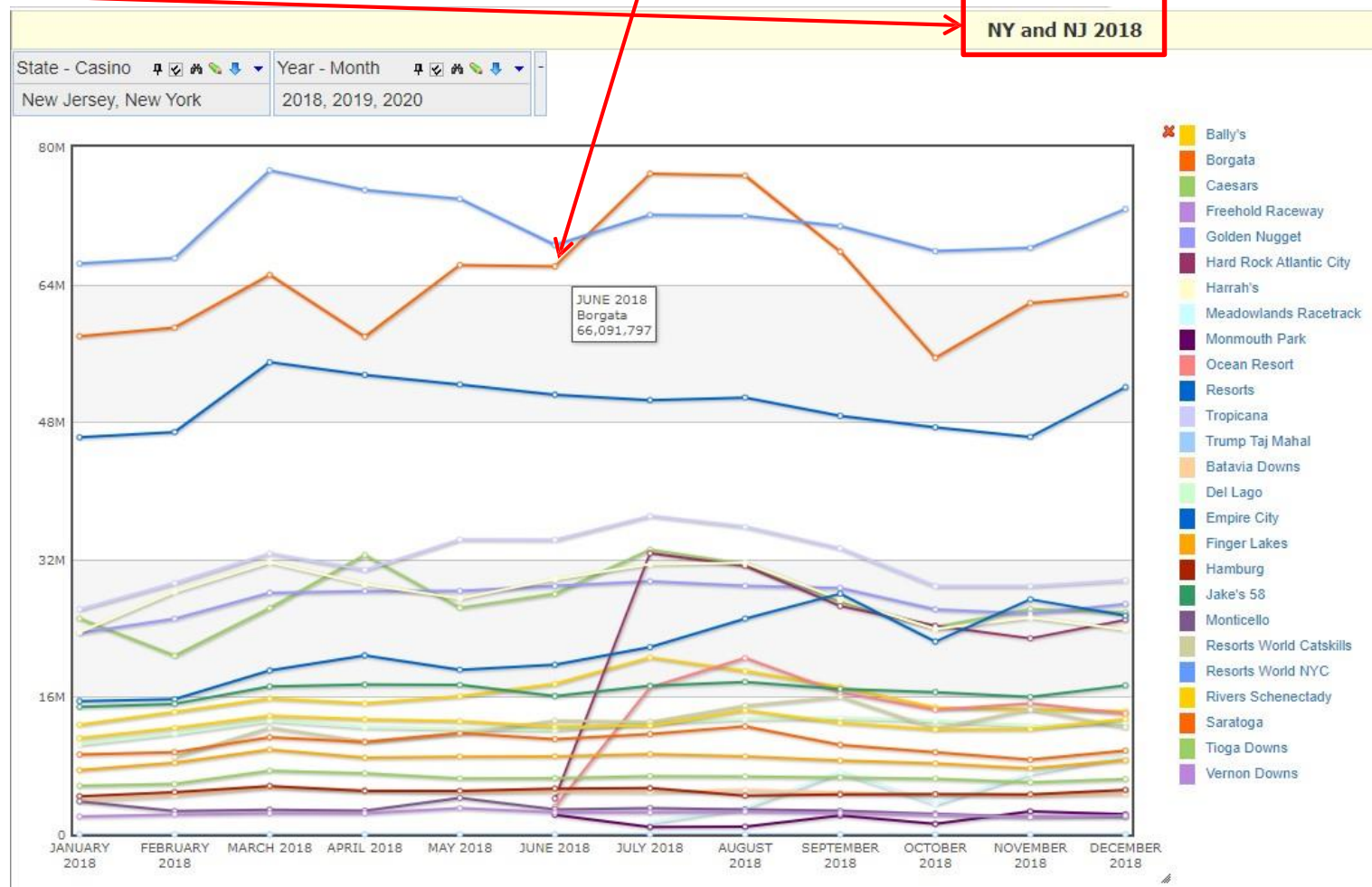
This example shows the same report only changed by the expanding of the Years so that the time is displayed for each Month. Whichever year is expanded the chart will change to display the months from that year. Locations are still displayed at the State level. Clicking on the + icon beside the State name would expand the table listing and chart lines to show the properties within that State.



Build a Custom Report – Charting (4)

This example shows the locations expanded to display all of the casino's in NJ & NY. The table is hidden to better display the chart. When hovering over data points on the chart, that point's information will be displayed.

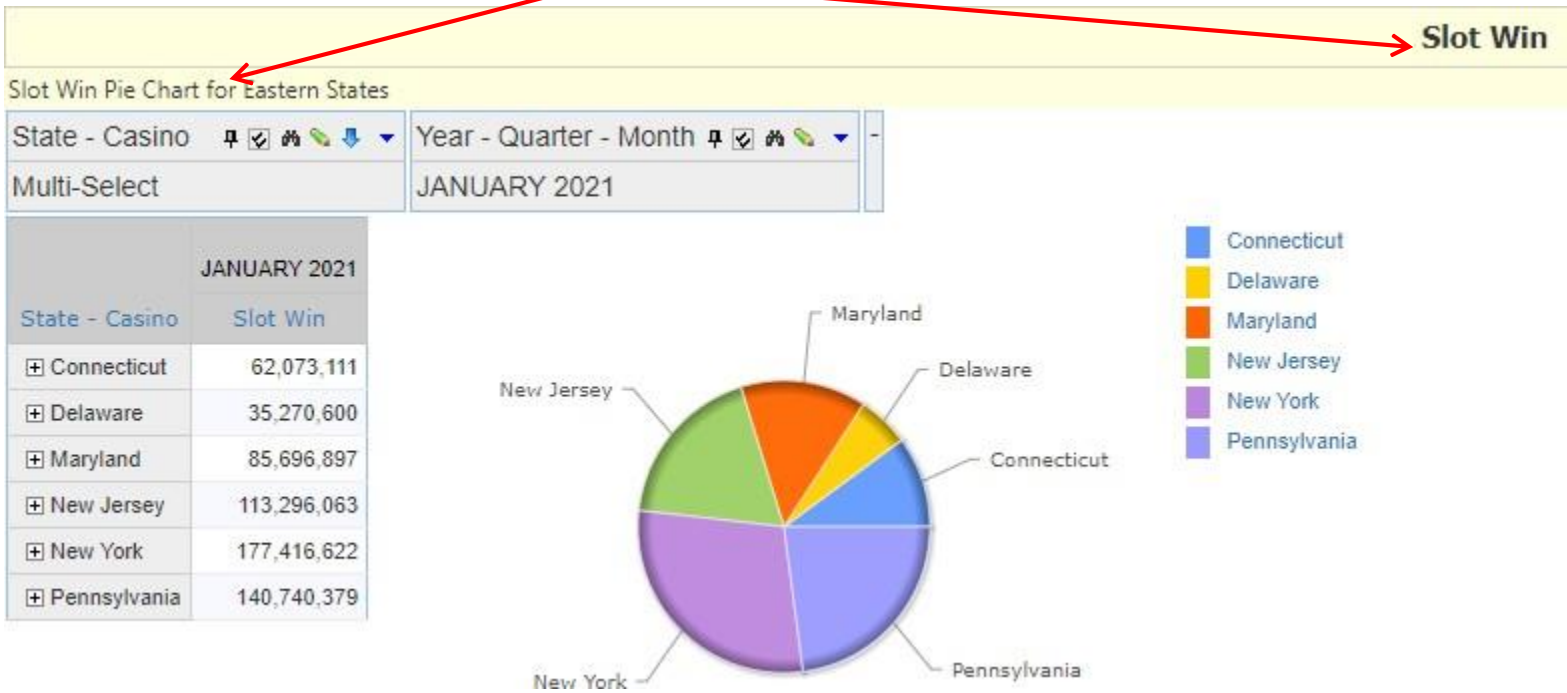
Titles can be added when saving to My Reports.



Build a Custom Report – Charting (5)

Another example of the types of charts (pie) that are available.

This report shows a custom Title, and a Description that are added when saved to My Reports.



Export a Report - Excel, PDF

Reports can be exported to a variety of formats

To export to excel, select the Export icon and open.

The screenshot shows a report titled "NJ NY Slot Win Sept. 2012-Sept 2013". The 'Export' menu is open, showing options for Excel, CSV, and PDF. A red box highlights the 'Excel' option, and a red arrow points to it from the text above.

State - Casino	2007	2008	2009	2010	2011	2012	2013
Bally's	462,939,908	394,629,796	314,338,881	283,638,705	264,441,156	197,815,229	163,416,180
Borgata	439,614,934	441,443,988	431,395,370	422,852,611	430,412,456	417,234,016	418,407,800
Caesars	374,486,028	327,475,136	284,752,454	248,514,997	240,739,582	229,462,232	209,421,984
Golden Nugget	184,564,936	155,075,095	125,270,157	113,359,416	97,553,342	97,278,949	95,605,199
Harrah's	450,281,344	446,455,951	388,327,533	350,535,636	344,630,439	297,882,399	269,851,423
Resorts	208,011,470	174,294,678	142,390,803	114,449,657	115,872,541	99,136,427	104,551,454
Revel						80,264,208	96,835,044
Tropicana	285,874,818	251,903,596	221,775,764	205,543,341	191,805,012	190,371,544	180,858,101
Empire City @ Yonkers	394,326,303	486,459,681	540,495,932	584,211,506	643,244,470	686,070,533	813,585,988

Upon opening in excel the user can save locally and manipulate the report as any xlsx. Charts can be saved or deleted.

The screenshot shows an Excel spreadsheet with a line chart titled "NJ NY Slot Win Sept. 2012-Sept 2013". The chart displays slot win data from 2007 to 2013 for various casinos. A legend on the right lists the casinos: Bally's, Borgata, Caesars, Golden Nugget, Harrah's, Resorts, Revel, Tropicana, Empire City @ Yonkers, and Resorts World NYC. The chart shows a significant spike for Resorts World NYC in 2013.

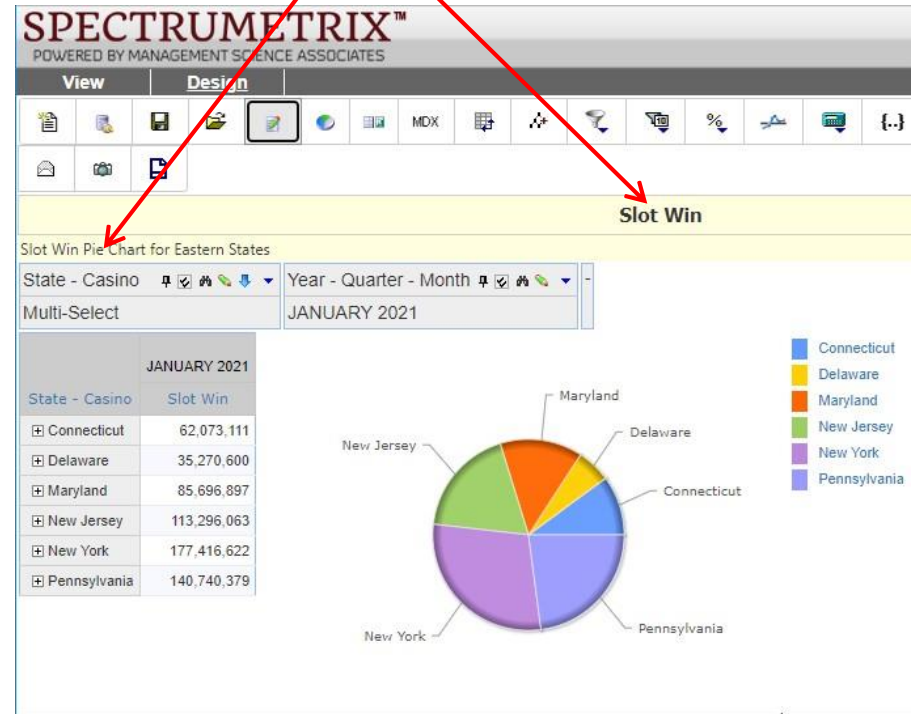
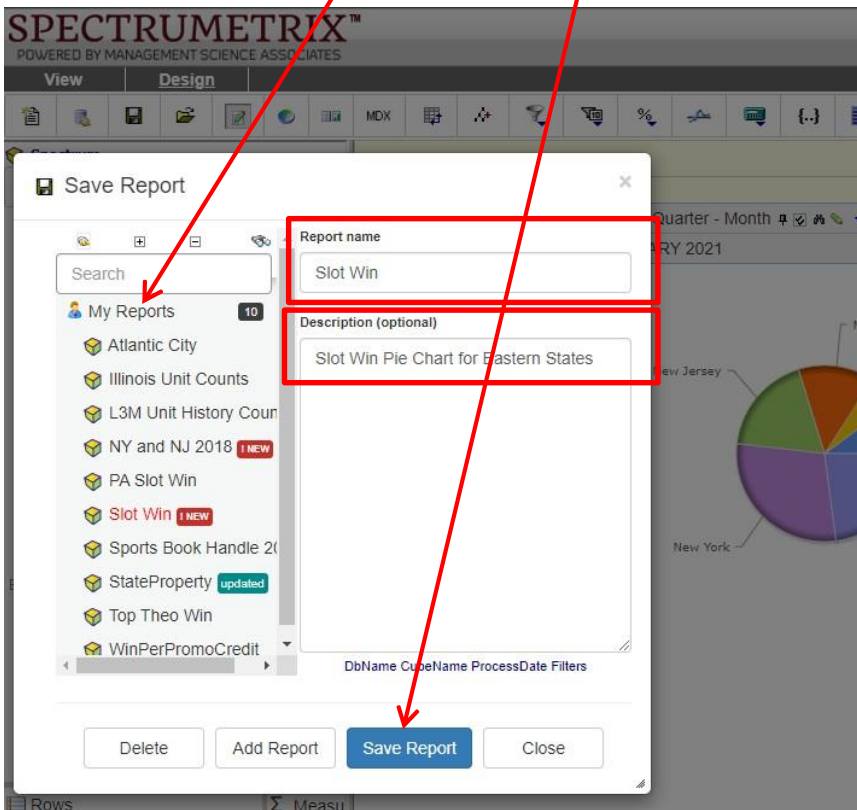
State - Casino	2007	2008	2009
Bally's	462,939,908.00	394,629,796.00	314,338,881.00
Borgata	439,614,934.00	441,443,988.00	431,395,370.00
Caesars	374,486,028.00	327,475,136.00	284,752,454.00
Golden Nugget	184,564,936.00	155,075,095.00	125,270,157.00
Harrah's	450,281,344.00	446,455,951.00	388,327,533.00
Resorts	208,011,470.00	174,294,678.00	142,390,803.00
Revel			
Tropicana	285,874,818.00	251,903,596.00	221,775,764.00
Empire City @ Yonkers	394,326,303.00	486,459,681.00	540,495,932.00
Resorts World NYC			

Saving a Report - Titles and Descriptions



Reports may be saved to your My Reports folder where they will be available for future use. Your My Reports folder is only visible to you.

The Report Name and Description is added when saving a report to your My Reports folder. Add Report will add it to My Reports, Save Report will save changes. Delete will remove the report and Close will stop the function.

The Report Name and Description can be added/edited at anytime. Descriptions are optional, whereas Report Names must be included to "Save".



Spectrumetrix Online Report Portal Helps

This Spectrumetrix Quick Start Guide may be found within the tool by selecting the information  icon. Should the user require more detailed or advanced information, an additional help document is available and may be found by selecting the  icon.

