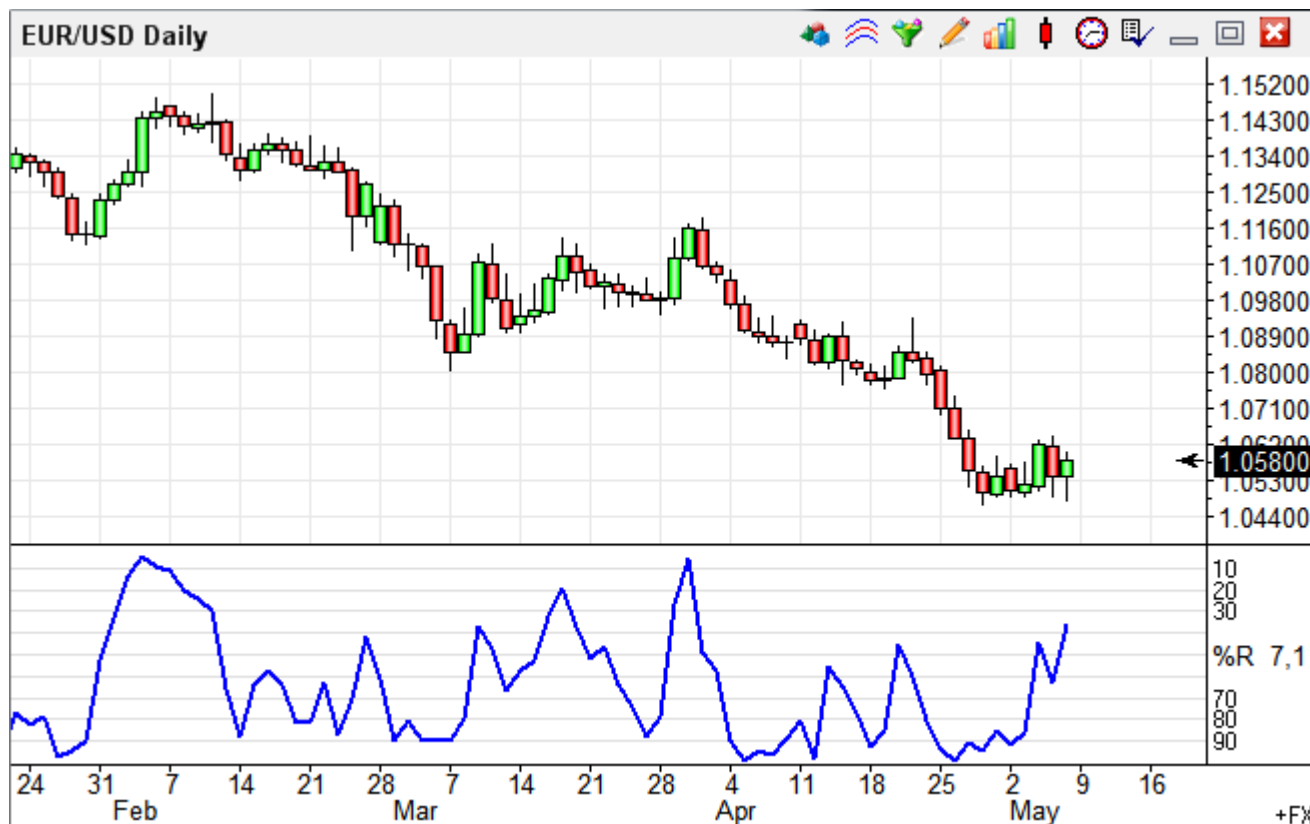


## William's %R

The William's %R study is used to display possible overbought and oversold areas. The study value represents the location of the current price (in percent), in relation to the highest high and lowest low price range of the last N bars. If N=10, the current price is compared to the high low price range of the last 10 bars. A current price equal to the highest high of the last 10 bars will have a %R value of 0. A current price equal to the lowest low of the last 10 bars will have a %R value of 100. A current price exactly in the middle of the price range of the last 10 bars will have a %R value of 50. This value is called the raw %R. A moving average of the %R value can be calculated to obtain a smoother value.



### Properties

Bars - Value of N bars. An entry of 10 will determine the price range of the last 10 bars (highest High - lowest Low). Increase N to include more bars in the high low range. Decrease N to include fewer bars in the high low range.

%R - An entry of 1 is recommended for this box. A value greater than 1 will average the %R line. For example, an entry of 3 will calculate a 3 period average of the raw %R value.

Average - An optional average of the %R line. An entry of 1 is recommended.

### Grid

Use a grid whose selections are the % William's choice as shown in the following example.

### Credits

Larry Williams

### Larry William's %R Properties Window

Bars: 7  
 %R: 1 (Simple)  
 Average: 3 (Simple)  
 Shift -L/R+: 0

Data Point: Close  
 Study Mode:  Standard,  Rising...Falling,  Above...Below,  Zones

Location: Sub Window 4  
 Color Band Positions: None  
 Study Scale: Default  
 Spread: Center  
 Grid: 3  
 Name:

Show	Zones	Color	Style	Marker	Color	Variable
<input checked="" type="checkbox"/>	%R Line	Blue	—		Blue	0
<input type="checkbox"/>	Average	Red	—		Red	0
<input type="checkbox"/>	Spread	Green		■	Green	0

Use as Default   
 Plot Behind Bars   
 Privatize   
 Show Values

Labels:   
 Location:   
 None  
 Font Size: 10  
 Tab: Default  
 Copy to Tab

Default 1 2 3 4 5 6 7 8 9 10 11 12 13 14

### Grid Lines for Window 4

Show	Description	Level	Color	Style	Left	Right	Variable
<input checked="" type="checkbox"/>	% Williams	70	Grey	—			0
<input checked="" type="checkbox"/>	% Williams	80	Grey	—			0
<input checked="" type="checkbox"/>	% Williams	90	Grey	—			0
<input checked="" type="checkbox"/>	% Williams	50	Grey	—			0
<input checked="" type="checkbox"/>	% Williams	60	Grey	—			0
<input checked="" type="checkbox"/>	% Williams	20	Grey	—			0
<input checked="" type="checkbox"/>	% Williams	30	Grey	—			0
<input checked="" type="checkbox"/>	% Williams	10	Grey	—			0
<input checked="" type="checkbox"/>	% Williams	40	Grey	—			0
<input type="checkbox"/>	% Williams	0	Black				0
<input type="checkbox"/>	% Williams	0	Black				0

Use as Default   
 Privatize   
 Labels Right

Tab: 3  
Copy to Tab

Default 1 2 3 4 5 6 7 8 9 10 11 12 13 14