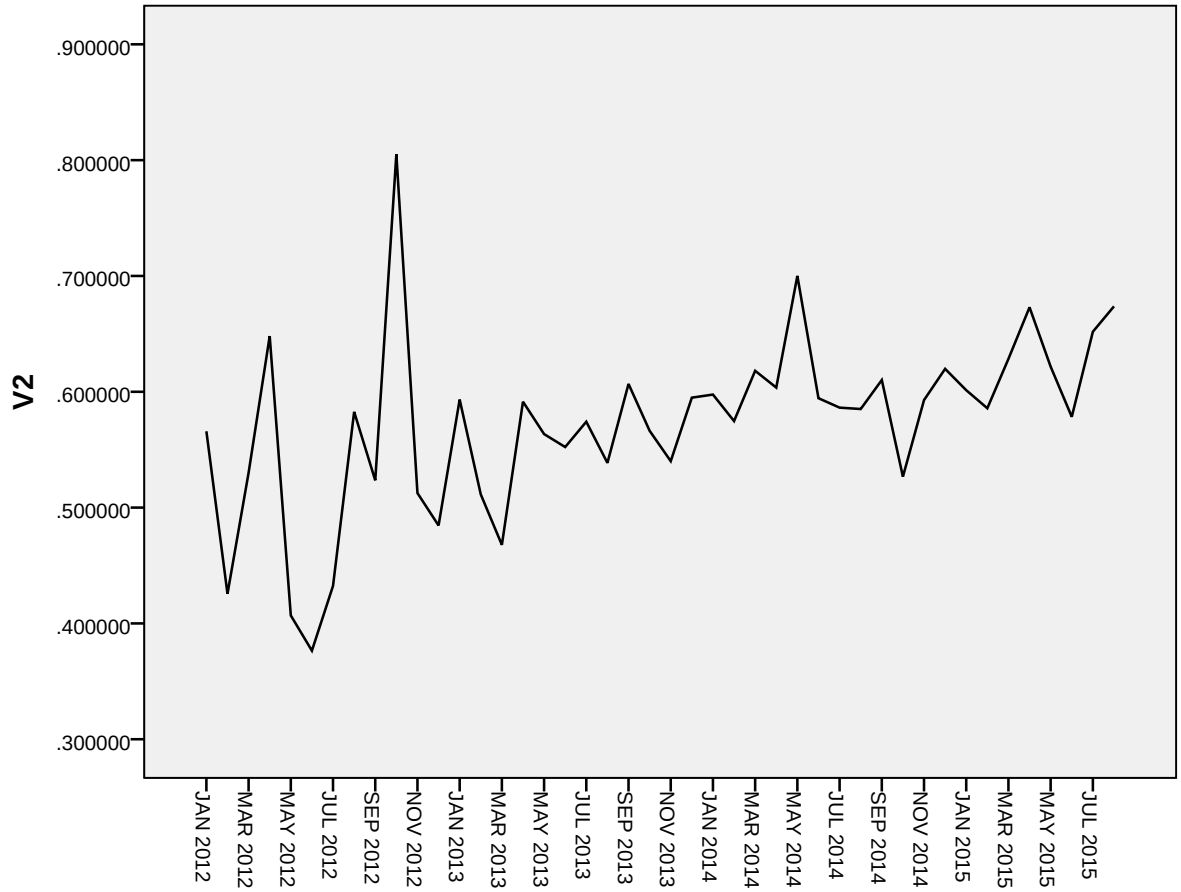
```
 GET DATA
  /TYPE=XLSX
  /FILE='G:\workspace\    \B  SPSS     \score\microwave\    Microsoft Excel       .
xlsx'
  /SHEET=name 'Sheet1'
  /CELLRANGE=FULL
  /READNAMES=OFF
  /DATATYPEMIN PERCENTAGE=95.0
  /HIDDEN IGNORE=YES.
EXECUTE.
DATASET NAME     16 WINDOW=FRONT.
DATE M 1 12 Y 2012.

The following new variables are being created:

 Name     Label

 YEAR_    YEAR, not periodic
 MONTH_   MONTH, period 12
 DATE_    Date. Format: "MMM YYYY"
*      .
TSPLOT VARIABLES=V2
  /ID=DATE_
  /NOLOG
  /FORMAT NOFILL NOREFERENCE.
```

		07-MAR-2020 22:37:54
		1 6
		< >
		< >
		< >
		44
		YEAR, not periodic, MONTH, period 12
		TSPLOT VARIABLES=V2 /ID=DATE_ /NOLOG /FORMAT NOFILL NOREFERENCE.
		00:00:00.09
		00:00:00.11
(T S E T)		PRINT = DEFAULT
		NEWVAR = CURRENT
		MXAUTO = 16
		MXCROSS = 7
		MXNEWVAR = 60
		MXPREDICT = 1000
		MISSING = EXCLUDE
		CIN = 95
		TOLER = .0001
		CNVERGE = .001
		ACFSE = IND
		PERIOD = 12
		CONSTANT

	MOD_21
1	V2
	0
	0
	12
	Date_

M O D _ 2 1

	V2
	44
	0
	0




```
 PREDICT THRU END.
*                .
TSMODEL
  /MODELSUMMARY PRINT=[MODELFIT]
  /MODELSTATISTICS  DISPLAY=YES MODELFIT=[SRSQUARE]
  /SERIESPLOT OBSERVED FORECAST
  /OUTPUTFILTER DISPLAY=ALLMODELS
  /SAVE  PREDICTED(    )
  /AUXILIARY  CILEVEL=95 MAXACFLAGS=24
  /MISSING USERMISSING=EXCLUDE
  /MODEL DEPENDENT=V2
    OUTFILE='G:\workspace\    \B  SPSS     \score\microwave\1.xml'
    PREFIX='    '
  /EXPERTMODELER TYPE=[ARIMA EXSMOOTH]TRYSEASONAL=YES
  /AUTOOUTLIER  DETECT=OFF.
```

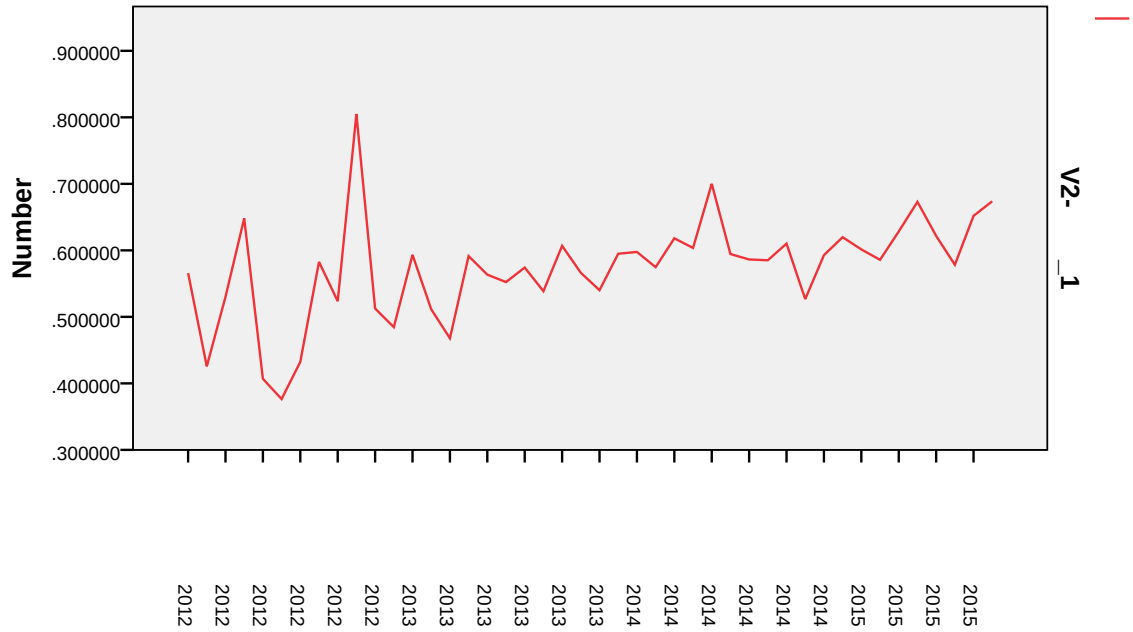
		07-MAR-2020 22:38:21
		1 6
		< >
		< >
		< >
		YEAR, not periodic, MONTH, period 12
		TSMODEL /MODELSUMMARY PRINT=[MODELFIT] /MODELSTATISTICS DISPLAY=YES MODELFIT=[SRSQUARE] /SERIESPLOT OBSERVED FORECAST /OUTPUTFILTER DISPLAY=ALLMODELS /SAVE PREDICTED( ) /AUXILIARY CILEVEL=95 MAXACFLAGS=24 /MISSING USERMISSING=EXCLUD E /MODEL DEPENDENT=V2 OUTFILE='G: \workspace\\B S P S S \score\microwave\1.xml' PREFIX='' /EXPERTMODELER TYPE=[ARIMA EXSMOOTH] TRYSEASONAL=YES /AUTOOUTLIER ...
		00:00:00.09
		00:00:00.14
	1	G:\workspace\\B S P S S \score\microwave\1.xml
	_V2__1	V 2 - _ 1

I D	V2	_ 1

				5	10	25
R	.844	.	.844	.844	.844	.844	.844
R	.405	.	.405	.405	.405	.405	.405
RMSE	.062	.	.062	.062	.062	.062	.062
MAPE	7.542	.	7.542	7.542	7.542	7.542	7.542
MaxAPE	28.713	.	28.713	28.713	28.713	28.713	28.713
MAE	.042	.	.042	.042	.042	.042	.042
MaxAE	.221	.	.221	.221	.221	.221	.221
B I C	-5.312	.	-5.312	-5.312	-5.312	-5.312	-5.312

	50	75	90	95
R	.844	.844	.844	.844
R	.405	.405	.405	.405
RMSE	.062	.062	.062	.062
MAPE	7.542	7.542	7.542	7.542
MaxAPE	28.713	28.713	28.713	28.713
MAE	.042	.042	.042	.042
MaxAE	.221	.221	.221	.221
B I C	-5.312	-5.312	-5.312	-5.312

			- Q(18)			
		R		DF		
V2-_1	0	.844	11.762	15	.697	0



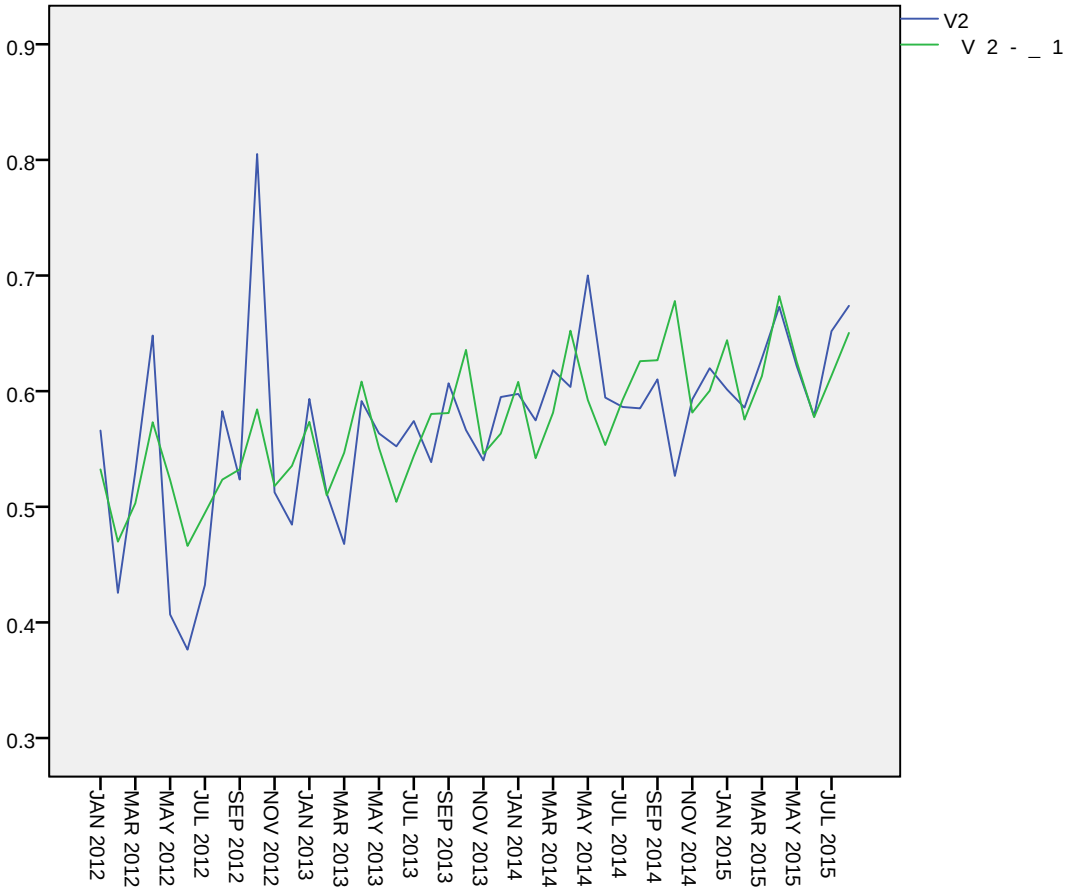

```
*      .
TSPLOT VARIABLES=V2    _V2_    _1
 /ID=DATE_
 /NOLOG.
```

		07-MAR-2020 22:38:28
		1 6
		< >
		< >
		< >
		44
		YEAR, not periodic, MONTH, period 12
		TSPLOT VARIABLES=V2 _ V 2 _ _ 1 /ID=DATE_ /NOLOG.
		00:00:00.13
		00:00:00.13
(T S E T)		PRINT = DEFAULT
		NEWVAR = CURRENT
		MXAUTO = 16
		MXCROSS = 7
		MXNEWVAR = 60
		MXPREDICT = 1000
		MISSING = EXCLUDE
		CIN = 95
		TOLER = .0001
		CNVERGE = .001
		ACFSE = IND
		PERIOD = 12
		CONSTANT

		MOD_22
	1	V2
	2	V 2 - _ 1
		0
		0
		12
		Date_

M O D _ 2 2

	V2	V 2 - _ 1
	44	44
	0	0
	0	0




```
 PREDICT THRU YEAR 2016 MONTH 8.
*                .
TSAPPLY
  /MODELSUMMARY PRINT=[MODELFIT]
  /MODELSTATISTICS  DISPLAY=YES MODELFIT=[SRSQUARE]
  /SERIESPLOT FORECAST
  /OUTPUTFILTER DISPLAY=ALLMODELS
  /SAVE  PREDICTED(    )
  /AUXILIARY  CILEVEL=95 REESTIMATE=NO
  /MISSING USERMISSING=EXCLUDE
  /MODEL FILE='G:\workspace\    \B  SPSS     \score\microwave\1.xml'.
```

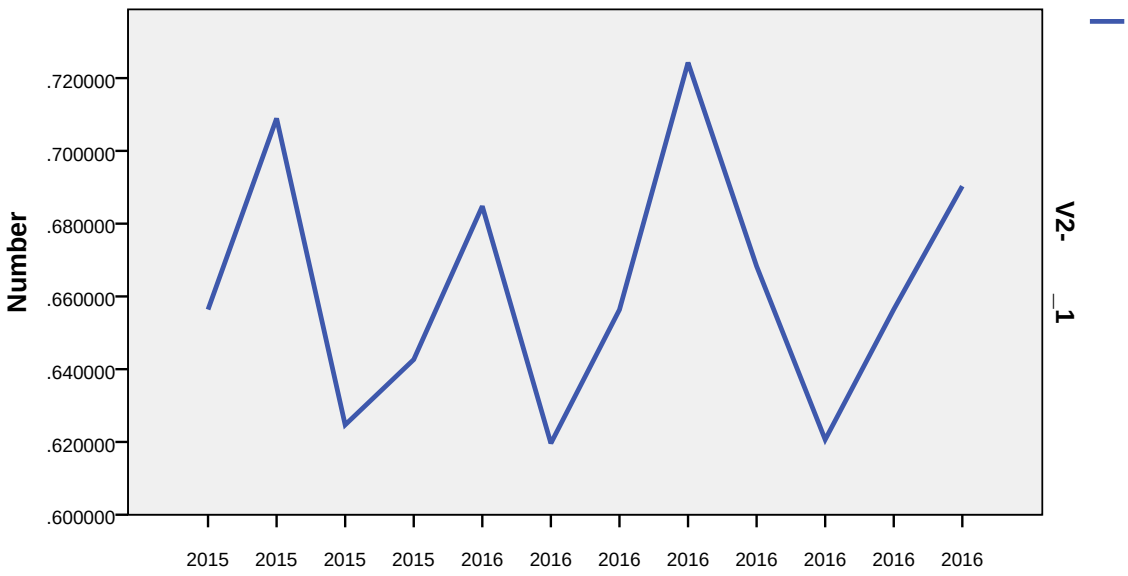
		07-MAR-2020 22:38:59
		1 6
		< >
		< >
		< >
		YEAR, not periodic, MONTH, period 12
		TSAPPLY /MODELSUMMARY PRINT=[MODELFIT] /MODELSTATISTICS DISPLAY=YES MODELFIT=[SRSQUARE] /SERIESPLOT FORECAST /OUTPUTFILTER DISPLAY=ALLMODELS /SAVE PREDICTED( ) /AUXILIARY CILEVEL=95 REESTIMATE=NO /MISSING USERMISSING=EXCLUD E /MODEL FILE='G: \workspace\\B SPSS ...
		00:00:00.11
		00:00:00.11
	_V2__1_A	V 2 - _ 1
		YEAR_ 2016, MONTH_ 8

ID	V2	_ 1

					5	10	25
R	.844	.	.844	.844	.844	.844	.844
R	.405	.	.405	.405	.405	.405	.405
RMSE	.062	.	.062	.062	.062	.062	.062
MAPE	7.542	.	7.542	7.542	7.542	7.542	7.542
MaxAPE	28.713	.	28.713	28.713	28.713	28.713	28.713
MAE	.042	.	.042	.042	.042	.042	.042
MaxAE	.221	.	.221	.221	.221	.221	.221
B I C	-5.312	.	-5.312	-5.312	-5.312	-5.312	-5.312

	50	75	90	95
R	.844	.844	.844	.844
R	.405	.405	.405	.405
RMSE	.062	.062	.062	.062
MAPE	7.542	7.542	7.542	7.542
MaxAPE	28.713	28.713	28.713	28.713
MAE	.042	.042	.042	.042
MaxAE	.221	.221	.221	.221
B I C	-5.312	-5.312	-5.312	-5.312

			- Q (1 8)			
		R		DF		
V 2 - _ 1	0	.844	11.762	15	.697	0



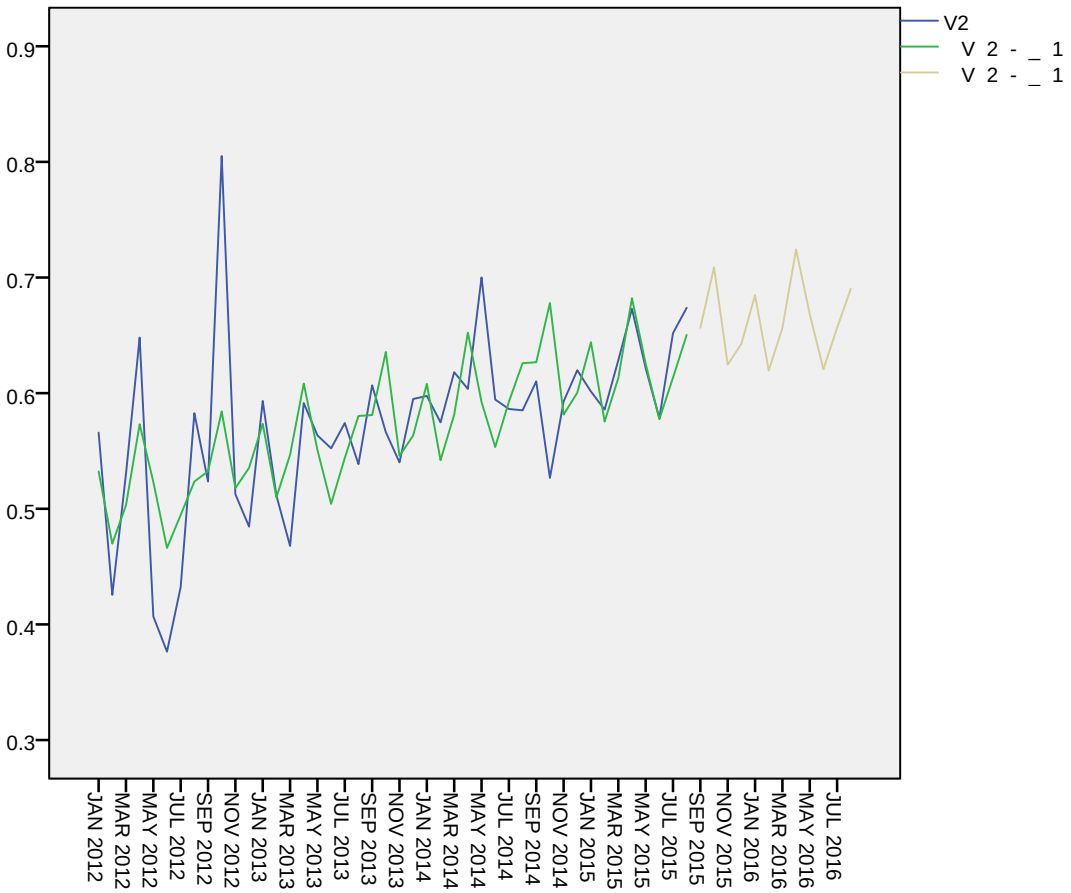

```
*      .
TSPLOT VARIABLES=V2    _V2_    _1    _V2_    _1_A
 /ID=DATE_
 /NOLOG.
```

		07-MAR-2020 22:39:06
		1 6
		< >
		< >
		< >
		56
		YEAR, not periodic, MONTH, period 12
		TSPLOT VARIABLES=V2 _ V 2 _ _ 1 _ V 2 _ _ 1 _ A /ID=DATE_ /NOLOG.
		00:00:00.13
		00:00:00.12
(T S E T)		PRINT = DEFAULT
		NEWVAR = CURRENT
		MXAUTO = 16
		MXCROSS = 7
		MXNEWVAR = 60
		MXPREDICT = 1000
		MISSING = EXCLUDE
		CIN = 95
		TOLER = .0001
		CNVERGE = .001
		ACFSE = IND
		PERIOD = 12
		CONSTANT

		MOD_23
	1	V2
	2	V 2 - _ 1
	3	V 2 - _ 1
		0
		0
		12
		Date_

M O D _ 2 3

		V2	V 2 - _ 1	V 2 - _ 1
		56	56	56
		0	0	0
		12	12	44


V2
V 2 - _ 1
V 2 - _ 1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
JAN 2012
MAR 2012
MAY 2012
JUL 2012
SEP 2012
NOV 2012
JAN 2013
MAR 2013
MAY 2013
JUL 2013
SEP 2013
NOV 2013
JAN 2014
MAR 2014
MAY 2014
JUL 2014
SEP 2014
NOV 2014
JAN 2015
MAR 2015
MAY 2015
JUL 2015
SEP 2015
NOV 2015
JAN 2016
MAR 2016
MAY 2016
JUL 2016