edX   **Microsoft: DAT203.3x Applied Machine Learning**   **Help**

Bookmarks

▸ Introduction

▾ **Module 1: Time Series and Forecasting**

Lesson 1: Introduction to Time Series

Lesson 2: Working with Time Series

Lesson 3: Forecasting in Context

Lab: Time Series and Forecasting
Lab   ✎

▸ Module 2: Spatial Data Analysis

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Lab Verification

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Ice Cream Production - Trend

1/1 point (graded)
During the lab, you plotted the time-series, ACT, and PACF for ice cream production.

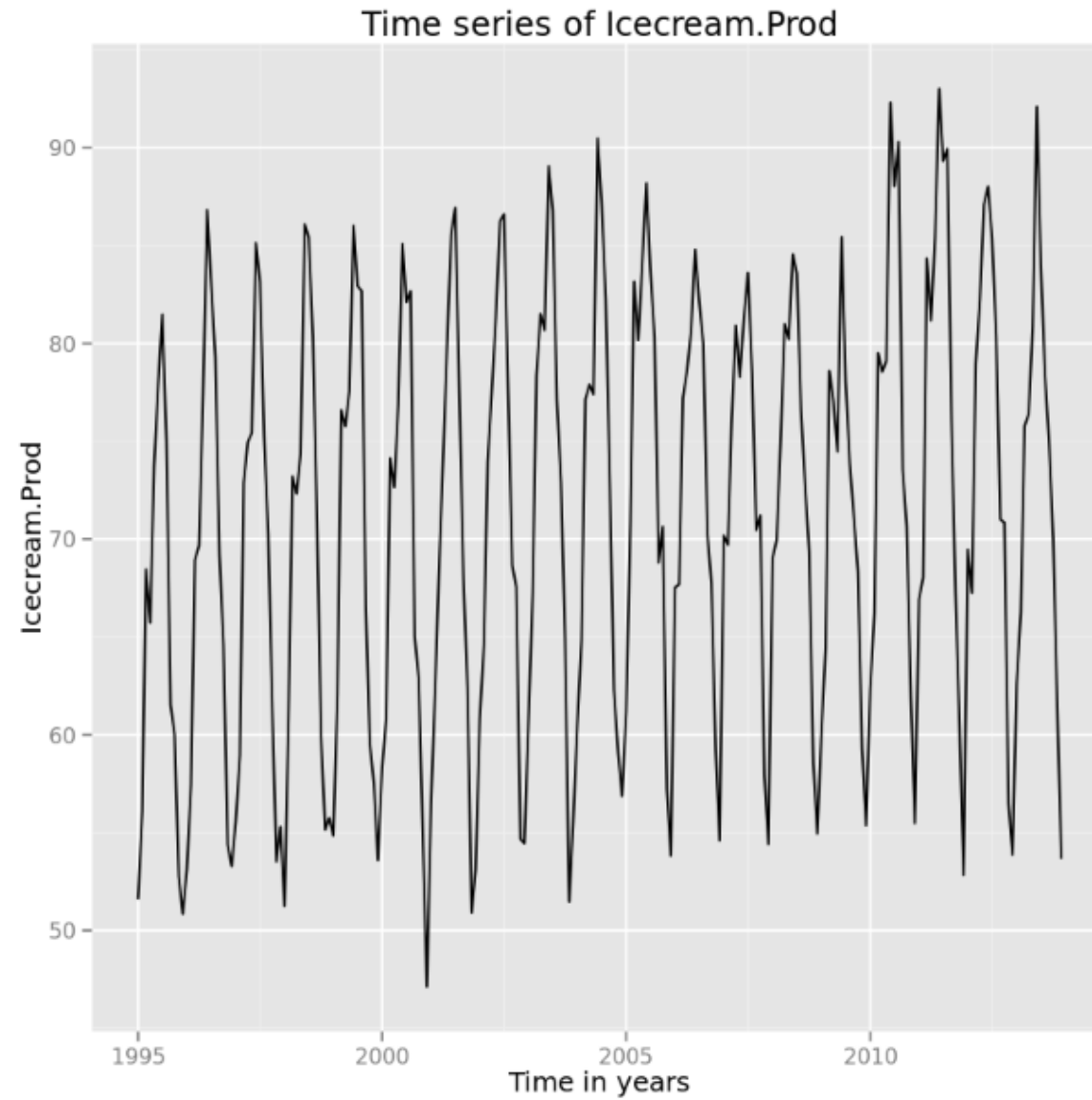Which of the following best describes the trend in the source data for ice cream production?

[The data shows a slight increasing trend in ice cream production   ▾]   ✔

Answer: The data shows a slight increasing trend in ice cream production

Explanation

The source for ice cream production shows a slight increasing trend, as indicated in this plot:

▸ Module 4: Image
　 Analysis

▸ Final Exam and Survey

Time series of Icecream.Prod

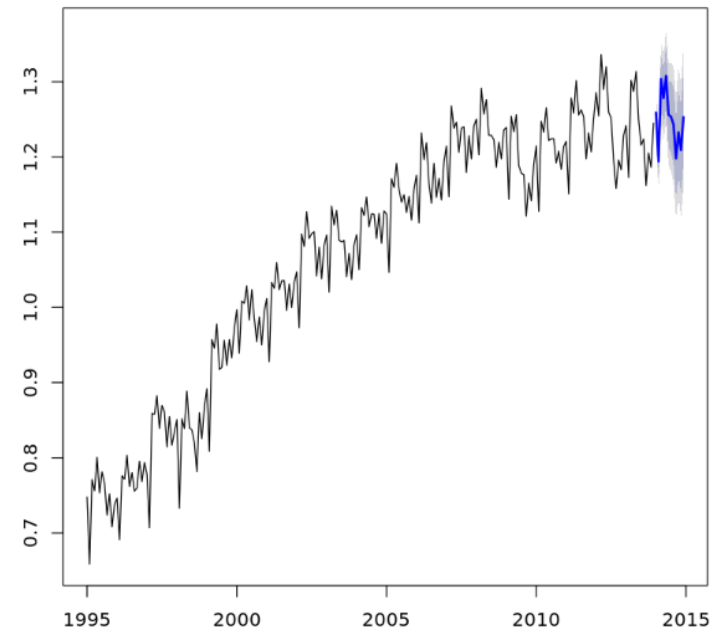Submit   You have used 1 of 2 attempts

✔   Correct (1/1 point)

Ice Cream Production - Forecast
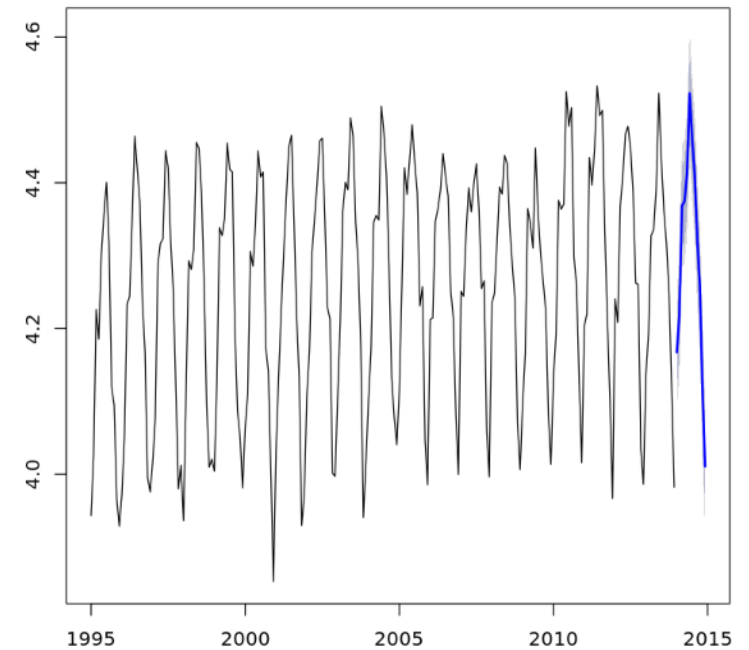
1/1 point (graded)
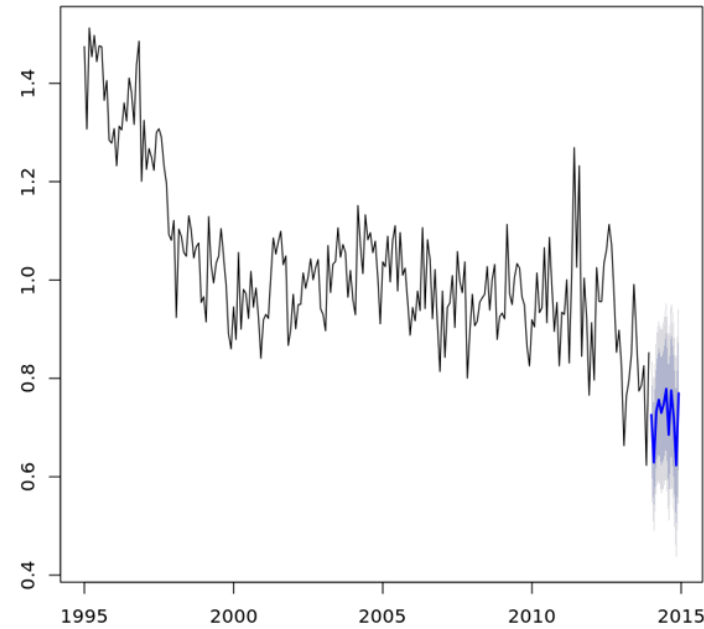You created an ARIMA model to forecast ice cream production.

Which of the following plots shows the forecast?

Plot A

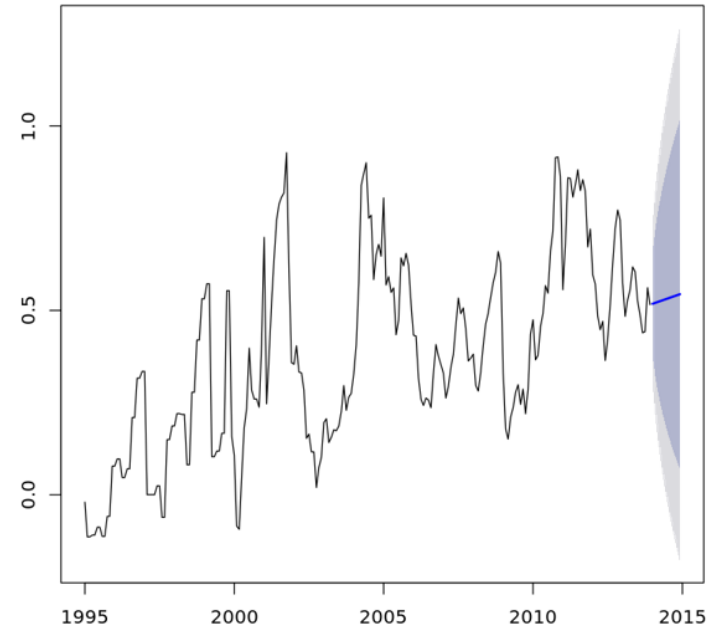
Plot B

Forecasts from ARIMA(0,1,1)(1,0,2)[12]

Plot C

Forecasts from ARIMA(0,1,0) with drift

Plot D

- ○ Plot A

- ◉ Plot B ✔

- ○ Plot C

- ○ Plot D

Explanation
Plot B shows the forecast for ice cream production. Plot A shows milk production, plot C shows cottage cheese production, and plot D shows fat price.

Submit   You have used 1 of 2 attempts

✔   Correct (1/1 point)

Milk Forecast Predictions

3/3 points (graded)
You created an Azure ML service to forecast milk production.

Enter the forecast figure, rounded to two decimal places, for the months below:

January

3.47   ✔ **Answer:** 3.47

3.47

February

3.25   ✔ **Answer:** 3.25

3.25

March

| 3.62 | ✔ **Answer:** 3.62 |

3.62

Explanation
The complete forecast results for the year are:

Month	Forecast
Jan	3.469836
Feb	3.246524
Mar	3.619187
Apr	3.532431
May	3.636989
Jun	3.463174
Jul	3.469722
Aug	3.439218
Sep	3.296013
Oct	3.410717
Nov	3.323451
Dec	3.464765

Submit　　You have used 1 of 2 attempts

✔　Correct (3/3 points)

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