

Sheet1

Sample Calculations - Gaussian Distributions. Copyright 1995, TRIUS, Inc.

Assuming that the rainfall at some location follows a normal (Gaussian) distribution with a mean of 60 inches per year, and a sigma of 15 inches, it calculates the probability of a certain number of inches of rainfall in the next year.

- Rainfall is Normal (Gaussian):  $N(60 \text{ in}, 15 \text{ in})$
- What is Prob. of at least X inches next year?

Given Information:  $\mu =$

60

At Least X-inches	Probability
10	#NAME?
20	#NAME?
30	#NAME?
40	#NAME?
50	#NAME?
60	#NAME?
70	#NAME?
80	#NAME?
90	#NAME?
100	#NAME?
110	#NAME?
120	#NAME?

A More Detailed Function for the distribution

At Least X-inches	Probability
2	#NAME?
4	#NAME?
6	#NAME?
8	#NAME?
10	#NAME?
12	#NAME?
14	#NAME?
16	#NAME?
18	#NAME?
20	#NAME?
22	#NAME?
24	#NAME?
26	#NAME?
28	#NAME?
30	#NAME?

32 #NAME?  
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114 #NAME?  
116 #NAME?  
118 #NAME?  
120 #NAME?  
122 #NAME?  
124 #NAME?  
126 #NAME?

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/gnubasic~v{esc 3}

d=

15

/gnudetail~v{esc 3}

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More Detailed Prediction Below.

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Press Alt-B for Basic Graph  
Press Alt-D for Detailed Graph  
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