# POLLUTEv10

Version 10.00

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## Case 20: Sensitivity Analysis

**THE VARIABLE VELOCITY AND/OR CONCENTRATION OPTION HAS BEEN USED. NOTE THAT THE ACCURACY OF THE CALCULATIONS WITH THIS OPTION WILL DEPEND ON THE NUMBER OF SUBLAYERS USED.**

**THE PASSIVE SINK OPTION HAS BEEN USED. NOTE THE USER IS RESPONSIBLE FOR ENSURING THAT VELOCITY CHANGES ARE CONSISTENT WITH THE PASSIVE SINK.**

### Layer Properties

| Layer | Thickness | Number of Sublayers | Coefficient of Hydrodynamic Dispersion | Matrix Porosity | Distributon Coefficient | Dry Density |
|---|---|---|---|---|---|---|
| Clay | 1 m | 4 | 0.02 m²/a | 0.4 | 0 cm³/g | 1.5 g/cm³ |
| Collection System | 0.3 m | 4 | 10 m²/a | 0.3 | 0 cm³/g | 1.5 g/cm³ |
| Aquitard | 2 m | 4 | 0.02 m²/a | 0.4 | 0 cm³/g | 1.5 g/cm³ |

### Boundary Conditions

**Finite Mass Top Boundary**

**Fixed Outflow Bottom Boundary**

| | |
|---|---|
| **Landfill Length** | 200 m |
| **Landfill Width** | 1 m |
| **Base Thickness** | 1 m |
| **Base Porosity** | 0.3 |

### Variation in Properties with Time

**Time Periods with the same Source and Velocity**

| Period | Start Time | No. of Steps | Time Step | Source Conc | Rate of Change | Height of Leachate | Volume Collected |
|---|---|---|---|---|---|---|---|
| 1 | 0 year | 1 | 20 year | 1000 mg/L | 0 | 7.5 m | 0.29 m/a |
| 2 | 20 year | 5 | 2 year | -1 mg/L | 0 | 7.5 m | 0.2 m/a |
| 3 | 30 year | 2 | 10 year | -1 mg/L | 0 | 7.5 m | 0.2 m/a |
| 4 | 50 year | 5 | 10 year | -1 mg/L | 0 | 7.5 m | 0.2 m/a |
| 5 | 100 year | 5 | 20 year | -1 mg/L | 0 | 7.5 m | 0.2 m/a |

| Period | Start Time | End Time | Proportion Mass | Dispersivity | Base Velocity |
|---|---|---|---|---|---|
| 1 | 0 year | 20 year | 1 m/a | 0.4 m | 4 m/a |
| 2 | 20 year | 30 year | 1 m/a | 0.4 m | 4 m/a |
| 3 | 30 year | 50 year | 1 m/a | 0.4 m | 4 m/a |
| 4 | 50 year | 100 year | 1 m/a | 0.4 m | 4 m/a |
| 5 | 100 year | 200 year | 1 m/a | 0.4 m | 4 m/a |

## Velocity and Sink Profile

| Time Period | Minimum Depth | Maximum Depth | Vertical Velocity | Horizontal Outflow |
|---|---|---|---|---|
| 1 / 1 | 0 m | 1 m | 0.01 m/a | 0 m/a |
| | 1 m | 1.3 m | 0.01 m/a | 6.67 m/a |
| | 1.3 m | 3.3 m | 0 m/a | 0 m/a |
| 2 / 1 | 0 m | 1 m | 0.028 m/a | 0 m/a |
| | 1 m | 1.3 m | 0.028 m/a | 18.7 m/a |
| | 1.3 m | 3.3 m | 0 m/a | 0 m/a |
| 2 / 2 | 0 m | 1 m | 0.046 m/a | 0 m/a |
| | 1 m | 1.3 m | 0.046 m/a | 30.7 m/a |
| | 1.3 m | 3.3 m | 0 m/a | 0 m/a |
| 2 / 3 | 0 m | 1 m | 0.064 m/a | 0 m/a |
| | 1 m | 1.3 m | 0.064 m/a | 42.7 m/a |
| | 1.3 m | 3.3 m | 0 m/a | 0 m/a |
| 2 / 4 | 0 m | 1 m | 0.082 m/a | 0 m/a |
| | 1 m | 1.3 m | 0.082 m/a | 54.7 m/a |
| | 1.3 m | 3.3 m | 0 m/a | 0 m/a |
| 2 / 5 | 0 m | 1 m | 0.1 m/a | 0 m/a |
| | 1 m | 1.3 m | 0.1 m/a | 66.7 m/a |
| | 1.3 m | 3.3 m | 0 m/a | 0 m/a |
| 3 / 1 | 0 m | 1 m | 0.1 m/a | 0 m/a |
| | 1 m | 1.3 m | 0.1 m/a | 66.7 m/a |
| | 1.3 m | 3.3 m | 0 m/a | 0 m/a |
| 3 / 2 | 0 m | 1 m | 0.1 m/a | 0 m/a |
| | 1 m | 1.3 m | 0.1 m/a | 66.7 m/a |
| | 1.3 m | 3.3 m | 0 m/a | 0 m/a |
| 4 / 1 | 0 m | 1 m | 0.1 m/a | 0 m/a |
| | 1 m | 1.3 m | 0.1 m/a | 66.7 m/a |
| | 1.3 m | 3.3 m | 0 m/a | 0 m/a |
| 4 / 2 | 0 m | 1 m | 0.1 m/a | 0 m/a |
| | 1 m | 1.3 m | 0.1 m/a | 66.7 m/a |
| | 1.3 m | 3.3 m | 0 m/a | 0 m/a |
| 4 / 3 | 0 m | 1 m | 0.1 m/a | 0 m/a |
| | 1 m | 1.3 m | 0.1 m/a | 66.7 m/a |
| | 1.3 m | 3.3 m | 0 m/a | 0 m/a |
| 4 / 4 | 0 m | 1 m | 0.1 m/a | 0 m/a |
| | 1 m | 1.3 m | 0.1 m/a | 66.7 m/a |
| | 1.3 m | 3.3 m | 0 m/a | 0 m/a |
| 4 / 5 | 0 m | 1 m | 0.1 m/a | 0 m/a |
| | 1 m | 1.3 m | 0.1 m/a | 66.7 m/a |
| | 1.3 m | 3.3 m | 0 m/a | 0 m/a |
| 5 / 1 | 0 m | 1 m | 0.1 m/a | 0 m/a |

| | | | | |
|---|---|---|---|---|
| | 1 m | 1.3 m | 0.1 m/a | 66.7 m/a |
| | 1.3 m | 3.3 m | 0 m/a | 0 m/a |
| 5 / 2 | 0 m | 1 m | 0.1 m/a | 0 m/a |
| | 1 m | 1.3 m | 0.1 m/a | 66.7 m/a |
| | 1.3 m | 3.3 m | 0 m/a | 0 m/a |
| 5 / 3 | 0 m | 1 m | 0.1 m/a | 0 m/a |
| | 1 m | 1.3 m | 0.1 m/a | 66.7 m/a |
| | 1.3 m | 3.3 m | 0 m/a | 0 m/a |
| 5 / 4 | 0 m | 1 m | 0.1 m/a | 0 m/a |
| | 1 m | 1.3 m | 0.1 m/a | 66.7 m/a |
| | 1.3 m | 3.3 m | 0 m/a | 0 m/a |
| 5 / 5 | 0 m | 1 m | 0.1 m/a | 0 m/a |
| | 1 m | 1.3 m | 0.1 m/a | 66.7 m/a |
| | 1.3 m | 3.3 m | 0 m/a | 0 m/a |

## Laplace Transform Parameters

| | |
|---|---|
| **TAU** | 7 |
| **N** | 20 |
| **SIG** | 0 |
| **RNU** | 2 |

## Sensitivity Analysis Results

Number of Simulations = 2000
Number of Data Ranges = 50
Variable Properties End Time
Time Period = 1
Uniform Distribution ( Minimum = 15 Maximum = 50 )

**Depth = 3.3**

**DISTRIBUTION OF PEAK CONCENTRATION**

| Minimum Value | Maximum Value | Number Occur. | Probability | Cumulative Probability | Expected Value |
|---|---|---|---|---|---|
| 2.28487E+01 | 2.28870E+01 | 68 | 0.03 | 0.03 | 7.77506E-01 |
| 2.28870E+01 | 2.29252E+01 | 53 | 0.03 | 0.06 | 6.07011E-01 |
| 2.29252E+01 | 2.29635E+01 | 47 | 0.02 | 0.08 | 5.39192E-01 |
| 2.29635E+01 | 2.30018E+01 | 43 | 0.02 | 0.11 | 4.94126E-01 |
| 2.30018E+01 | 2.30400E+01 | 41 | 0.02 | 0.13 | 4.71928E-01 |
| 2.30400E+01 | 2.30783E+01 | 39 | 0.02 | 0.15 | 4.49653E-01 |
| 2.30783E+01 | 2.31165E+01 | 38 | 0.02 | 0.16 | 4.38851E-01 |
| 2.31165E+01 | 2.31548E+01 | 38 | 0.02 | 0.18 | 4.39578E-01 |
| 2.31548E+01 | 2.31931E+01 | 38 | 0.02 | 0.20 | 4.40305E-01 |
| 2.31931E+01 | 2.32313E+01 | 37 | 0.02 | 0.22 | 4.29426E-01 |
| 2.32313E+01 | 2.32696E+01 | 38 | 0.02 | 0.24 | 4.41759E-01 |
| 2.32696E+01 | 2.33079E+01 | 39 | 0.02 | 0.26 | 4.54131E-01 |
| 2.33079E+01 | 2.33461E+01 | 40 | 0.02 | 0.28 | 4.66540E-01 |
| 2.33461E+01 | 2.33844E+01 | 42 | 0.02 | 0.30 | 4.90671E-01 |
| 2.33844E+01 | 2.34227E+01 | 44 | 0.02 | 0.32 | 5.14878E-01 |
| 2.34227E+01 | 2.34609E+01 | 47 | 0.02 | 0.35 | 5.50883E-01 |

| | | | | | |
|---|---|---|---|---|---|
| 2.34609E+01 | 2.34992E+01 | 52 | 0.03 | 0.37 | 6.10482E-01 |
| 2.34992E+01 | 2.35375E+01 | 83 | 0.04 | 0.41 | 9.76011E-01 |
| 2.35375E+01 | 2.35757E+01 | 153 | 0.08 | 0.49 | 1.80208E+00 |
| 2.35757E+01 | 2.36140E+01 | 244 | 0.12 | 0.61 | 2.87857E+00 |
| 2.36140E+01 | 2.36523E+01 | 176 | 0.09 | 0.70 | 2.07972E+00 |
| 2.36523E+01 | 2.36905E+01 | 14 | 0.01 | 0.71 | 1.65700E-01 |
| 2.36905E+01 | 2.37288E+01 | 14 | 0.01 | 0.71 | 1.65968E-01 |
| 2.37288E+01 | 2.37671E+01 | 14 | 0.01 | 0.72 | 1.66236E-01 |
| 2.37671E+01 | 2.38053E+01 | 15 | 0.01 | 0.73 | 1.78397E-01 |
| 2.38053E+01 | 2.38436E+01 | 15 | 0.01 | 0.74 | 1.78684E-01 |
| 2.38436E+01 | 2.38819E+01 | 15 | 0.01 | 0.74 | 1.78971E-01 |
| 2.38819E+01 | 2.39201E+01 | 16 | 0.01 | 0.75 | 1.91208E-01 |
| 2.39201E+01 | 2.39584E+01 | 17 | 0.01 | 0.76 | 2.03484E-01 |
| 2.39584E+01 | 2.39967E+01 | 17 | 0.01 | 0.77 | 2.03809E-01 |
| 2.39967E+01 | 2.40349E+01 | 18 | 0.01 | 0.78 | 2.16142E-01 |
| 2.40349E+01 | 2.40732E+01 | 18 | 0.01 | 0.79 | 2.16487E-01 |
| 2.40732E+01 | 2.41115E+01 | 20 | 0.01 | 0.80 | 2.40923E-01 |
| 2.41115E+01 | 2.41497E+01 | 20 | 0.01 | 0.81 | 2.41306E-01 |
| 2.41497E+01 | 2.41880E+01 | 22 | 0.01 | 0.82 | 2.65858E-01 |
| 2.41880E+01 | 2.42263E+01 | 22 | 0.01 | 0.83 | 2.66278E-01 |
| 2.42263E+01 | 2.42645E+01 | 25 | 0.01 | 0.84 | 3.03067E-01 |
| 2.42645E+01 | 2.43028E+01 | 26 | 0.01 | 0.85 | 3.15688E-01 |
| 2.43028E+01 | 2.43411E+01 | 30 | 0.01 | 0.87 | 3.64829E-01 |
| 2.43411E+01 | 2.43793E+01 | 32 | 0.02 | 0.88 | 3.89763E-01 |
| 2.43793E+01 | 2.44176E+01 | 38 | 0.02 | 0.90 | 4.63571E-01 |
| 2.44176E+01 | 2.44559E+01 | 46 | 0.02 | 0.93 | 5.62045E-01 |
| 2.44559E+01 | 2.44941E+01 | 65 | 0.03 | 0.96 | 7.95437E-01 |
| 2.44941E+01 | 2.45324E+01 | 21 | 0.01 | 0.97 | 2.57389E-01 |
| 2.45324E+01 | 2.45707E+01 | 9 | 0.00 | 0.97 | 1.10482E-01 |
| 2.45707E+01 | 2.46089E+01 | 10 | 0.01 | 0.98 | 1.22949E-01 |
| 2.46089E+01 | 2.46472E+01 | 10 | 0.01 | 0.98 | 1.23140E-01 |
| 2.46472E+01 | 2.46855E+01 | 10 | 0.01 | 0.99 | 1.23332E-01 |
| 2.46855E+01 | 2.47237E+01 | 10 | 0.01 | 0.99 | 1.23523E-01 |
| 2.47237E+01 | 2.47620E+01 | 11 | 0.01 | 1.00 | 1.36086E-01 |

Expected Maximum Concentration = 2.36241E+01

**DISTRIBUTION OF TIME OF PEAK CONCENTRATION**

| Minimum Value | Maximum Value | Number Occur. | Probability | Cumulative Probability | Expected Value |
|---|---|---|---|---|---|
| 5.5E+01 | 5.54762E+01 | 28 | 0.01 | 0.01 | 7.7E-01 |
| 5.5E+01 | 5.59524E+01 | 27 | 0.01 | 0.03 | 7.5E-01 |
| 5.6E+01 | 5.64286E+01 | 27 | 0.01 | 0.04 | 7.6E-01 |
| 5.6E+01 | 5.69048E+01 | 27 | 0.01 | 0.05 | 7.6E-01 |
| 5.7E+01 | 5.73809E+01 | 27 | 0.01 | 0.07 | 7.7E-01 |
| 5.7E+01 | 5.78571E+01 | 28 | 0.01 | 0.08 | 8.1E-01 |
| 5.8E+01 | 5.83333E+01 | 27 | 0.01 | 0.10 | 7.8E-01 |
| 5.8E+01 | 5.88095E+01 | 27 | 0.01 | 0.11 | 7.9E-01 |
| 5.9E+01 | 5.92857E+01 | 27 | 0.01 | 0.12 | 8.0E-01 |
| 5.9E+01 | 5.97619E+01 | 27 | 0.01 | 0.14 | 8.0E-01 |
| 6.0E+01 | 6.02381E+01 | 28 | 0.01 | 0.15 | 8.4E-01 |
| 6.0E+01 | 6.07143E+01 | 27 | 0.01 | 0.16 | 8.2E-01 |
| 6.1E+01 | 6.11904E+01 | 27 | 0.01 | 0.18 | 8.2E-01 |
| 6.1E+01 | 6.16666E+01 | 27 | 0.01 | 0.19 | 8.3E-01 |
| 6.2E+01 | 6.21428E+01 | 27 | 0.01 | 0.20 | 8.4E-01 |
| 6.2E+01 | 6.26190E+01 | 28 | 0.01 | 0.22 | 8.7E-01 |
| 6.3E+01 | 6.30952E+01 | 27 | 0.01 | 0.23 | 8.5E-01 |
| 6.3E+01 | 6.35714E+01 | 27 | 0.01 | 0.25 | 8.5E-01 |

| | | | | | |
|---|---|---|---|---|---|
| 6.4E+01 | 6.40476E+01 | 27 | 0.01 | 0.26 | 8.6E-01 |
| 6.4E+01 | 6.45238E+01 | 27 | 0.01 | 0.27 | 8.7E-01 |
| 6.5E+01 | 6.49999E+01 | 28 | 0.01 | 0.29 | 9.1E-01 |
| 6.5E+01 | 6.54761E+01 | 27 | 0.01 | 0.30 | 8.8E-01 |
| 6.5E+01 | 6.59523E+01 | 27 | 0.01 | 0.31 | 8.9E-01 |
| 6.6E+01 | 6.64285E+01 | 27 | 0.01 | 0.33 | 8.9E-01 |
| 6.6E+01 | 6.69047E+01 | 27 | 0.01 | 0.34 | 9.0E-01 |
| 6.7E+01 | 6.73809E+01 | 28 | 0.01 | 0.35 | 9.4E-01 |
| 6.7E+01 | 6.78571E+01 | 27 | 0.01 | 0.37 | 9.1E-01 |
| 6.8E+01 | 6.83333E+01 | 27 | 0.01 | 0.38 | 9.2E-01 |
| 6.8E+01 | 6.88095E+01 | 30 | 0.01 | 0.40 | 1.0E+00 |
| 6.9E+01 | 6.92856E+01 | 82 | 0.04 | 0.44 | 2.8E+00 |
| 6.9E+01 | 6.97618E+01 | 82 | 0.04 | 0.48 | 2.9E+00 |
| 7.0E+01 | 7.02380E+01 | 68 | 0.03 | 0.51 | 2.4E+00 |
| 7.0E+01 | 7.07142E+01 | 54 | 0.03 | 0.54 | 1.9E+00 |
| 7.1E+01 | 7.11904E+01 | 54 | 0.03 | 0.57 | 1.9E+00 |
| 7.1E+01 | 7.16666E+01 | 55 | 0.03 | 0.59 | 2.0E+00 |
| 7.2E+01 | 7.21428E+01 | 55 | 0.03 | 0.62 | 2.0E+00 |
| 7.2E+01 | 7.26190E+01 | 54 | 0.03 | 0.65 | 2.0E+00 |
| 7.3E+01 | 7.30951E+01 | 54 | 0.03 | 0.68 | 2.0E+00 |
| 7.3E+01 | 7.35713E+01 | 54 | 0.03 | 0.70 | 2.0E+00 |
| 7.4E+01 | 7.40475E+01 | 55 | 0.03 | 0.73 | 2.0E+00 |
| 7.4E+01 | 7.45237E+01 | 55 | 0.03 | 0.76 | 2.0E+00 |
| 7.5E+01 | 7.49999E+01 | 54 | 0.03 | 0.78 | 2.0E+00 |
| 7.5E+01 | 7.54761E+01 | 54 | 0.03 | 0.81 | 2.0E+00 |
| 7.5E+01 | 7.59523E+01 | 54 | 0.03 | 0.84 | 2.0E+00 |
| 7.6E+01 | 7.64285E+01 | 55 | 0.03 | 0.87 | 2.1E+00 |
| 7.6E+01 | 7.69047E+01 | 55 | 0.03 | 0.89 | 2.1E+00 |
| 7.7E+01 | 7.73808E+01 | 54 | 0.03 | 0.92 | 2.1E+00 |
| 7.7E+01 | 7.78570E+01 | 54 | 0.03 | 0.95 | 2.1E+00 |
| 7.8E+01 | 7.83332E+01 | 54 | 0.03 | 0.97 | 2.1E+00 |
| 7.8E+01 | 7.88094E+01 | 52 | 0.03 | 1.00 | 2.0E+00 |

Expected Time of Maximum Concentration = 68.9456445222611

**VARIABLE NUMBER: 1**

| Minimum Value | Maximum Value | Number Occur. | Probability | Cumulative Probability | Expected Value |
|---|---|---|---|---|---|
| 1.50000E+01 | 1.57000E+01 | 40 | 0.02 | 0.02 | 3.07000E-01 |
| 1.57000E+01 | 1.64000E+01 | 40 | 0.02 | 0.04 | 3.21000E-01 |
| 1.64000E+01 | 1.71000E+01 | 40 | 0.02 | 0.06 | 3.35000E-01 |
| 1.71000E+01 | 1.78000E+01 | 40 | 0.02 | 0.08 | 3.49000E-01 |
| 1.78000E+01 | 1.85000E+01 | 40 | 0.02 | 0.10 | 3.63000E-01 |
| 1.85000E+01 | 1.92000E+01 | 40 | 0.02 | 0.12 | 3.77000E-01 |
| 1.92000E+01 | 1.99000E+01 | 40 | 0.02 | 0.14 | 3.91000E-01 |
| 1.99000E+01 | 2.06000E+01 | 40 | 0.02 | 0.16 | 4.05000E-01 |
| 2.06000E+01 | 2.13000E+01 | 40 | 0.02 | 0.18 | 4.19000E-01 |
| 2.13000E+01 | 2.20000E+01 | 40 | 0.02 | 0.20 | 4.33000E-01 |
| 2.20000E+01 | 2.27000E+01 | 40 | 0.02 | 0.22 | 4.47000E-01 |
| 2.27000E+01 | 2.34000E+01 | 40 | 0.02 | 0.24 | 4.61000E-01 |
| 2.34000E+01 | 2.41000E+01 | 40 | 0.02 | 0.26 | 4.75000E-01 |
| 2.41000E+01 | 2.48000E+01 | 40 | 0.02 | 0.28 | 4.89000E-01 |
| 2.48000E+01 | 2.55000E+01 | 40 | 0.02 | 0.30 | 5.03000E-01 |
| 2.55000E+01 | 2.62000E+01 | 40 | 0.02 | 0.32 | 5.17000E-01 |
| 2.62000E+01 | 2.69000E+01 | 40 | 0.02 | 0.34 | 5.31000E-01 |
| 2.69000E+01 | 2.76000E+01 | 40 | 0.02 | 0.36 | 5.45000E-01 |
| 2.76000E+01 | 2.83000E+01 | 40 | 0.02 | 0.38 | 5.59000E-01 |
| 2.83000E+01 | 2.90000E+01 | 40 | 0.02 | 0.40 | 5.73000E-01 |

| | | | | | |
|---|---|---|---|---|---|
| 2.90000E+01 | 2.97000E+01 | 40 | 0.02 | 0.42 | 5.87000E-01 |
| 2.97000E+01 | 3.04000E+01 | 40 | 0.02 | 0.44 | 6.01000E-01 |
| 3.04000E+01 | 3.11000E+01 | 40 | 0.02 | 0.46 | 6.15000E-01 |
| 3.11000E+01 | 3.18000E+01 | 40 | 0.02 | 0.48 | 6.29000E-01 |
| 3.18000E+01 | 3.25000E+01 | 40 | 0.02 | 0.50 | 6.43000E-01 |
| 3.25000E+01 | 3.32000E+01 | 40 | 0.02 | 0.52 | 6.57000E-01 |
| 3.32000E+01 | 3.39000E+01 | 40 | 0.02 | 0.54 | 6.71000E-01 |
| 3.39000E+01 | 3.46000E+01 | 40 | 0.02 | 0.56 | 6.85000E-01 |
| 3.46000E+01 | 3.53000E+01 | 40 | 0.02 | 0.58 | 6.99000E-01 |
| 3.53000E+01 | 3.60000E+01 | 40 | 0.02 | 0.60 | 7.13000E-01 |
| 3.60000E+01 | 3.67000E+01 | 40 | 0.02 | 0.62 | 7.27000E-01 |
| 3.67000E+01 | 3.74000E+01 | 40 | 0.02 | 0.64 | 7.41000E-01 |
| 3.74000E+01 | 3.81000E+01 | 40 | 0.02 | 0.66 | 7.55000E-01 |
| 3.81000E+01 | 3.88000E+01 | 40 | 0.02 | 0.68 | 7.69000E-01 |
| 3.88000E+01 | 3.95000E+01 | 40 | 0.02 | 0.70 | 7.83000E-01 |
| 3.95000E+01 | 4.02000E+01 | 40 | 0.02 | 0.72 | 7.97000E-01 |
| 4.02000E+01 | 4.09000E+01 | 40 | 0.02 | 0.74 | 8.11000E-01 |
| 4.09000E+01 | 4.16000E+01 | 40 | 0.02 | 0.76 | 8.25000E-01 |
| 4.16000E+01 | 4.23000E+01 | 40 | 0.02 | 0.78 | 8.39000E-01 |
| 4.23000E+01 | 4.30000E+01 | 40 | 0.02 | 0.80 | 8.53000E-01 |
| 4.30000E+01 | 4.37000E+01 | 40 | 0.02 | 0.82 | 8.67000E-01 |
| 4.37000E+01 | 4.44000E+01 | 40 | 0.02 | 0.84 | 8.81000E-01 |
| 4.44000E+01 | 4.51000E+01 | 40 | 0.02 | 0.86 | 8.95000E-01 |
| 4.51000E+01 | 4.58000E+01 | 40 | 0.02 | 0.88 | 9.09000E-01 |
| 4.58000E+01 | 4.65000E+01 | 40 | 0.02 | 0.90 | 9.23000E-01 |
| 4.65000E+01 | 4.72000E+01 | 40 | 0.02 | 0.92 | 9.37000E-01 |
| 4.72000E+01 | 4.79000E+01 | 40 | 0.02 | 0.94 | 9.51000E-01 |
| 4.79000E+01 | 4.86000E+01 | 40 | 0.02 | 0.96 | 9.65000E-01 |
| 4.86000E+01 | 4.93000E+01 | 40 | 0.02 | 0.98 | 9.79000E-01 |
| 4.93000E+01 | 5.00000E+01 | 40 | 0.02 | 1.00 | 9.93000E-01 |
| 0.00000E+00 | 0.00000E+00 | 0 | 0.00 | 0.00 | 0.00000E+00 |

Expected Value = 3.25000E+01