## Total Duck Population (dil = 1E+06)

| manual.calc.pop.total | model.pop.total | dil |
|:---------------------:|:---------------:|:------:|
| 7.501005999 | 6 | −200107 |

# Total Duck Population by month (dil = 1E+06)

| Month | manual.calc.pop.total | model.pop.total | dil |
|-------|-----------------------|-----------------|-----|
| Jan | 1.2500010000 | 1 | −200001 |
| Feb | 0.0001666665 | 0 | −1000000 |
| Mar | 0.0001666665 | 0 | −1000000 |
| Apr | 0.0001666665 | 0 | −1000000 |
| May | 1.2500010000 | 1 | −200001 |
| Jun | 1.2500010000 | 1 | −200001 |
| Jul | 1.2500010000 | 1 | −200001 |
| Aug | 0.0001666665 | 0 | −1000000 |
| Sep | 0.0001666665 | 0 | −1000000 |
| Oct | 0.0001666665 | 0 | −1000000 |
| Nov | 1.2500010000 | 1 | −200001 |
| Dec | 1.2500010000 | 1 | −200001 |

## Total Duck Population in/around stream (dil = 1E+06)

| manual.calc.pop.total | model.pop.total | dil |
|:---:|:---:|:---:|
| 7.0321931240625 | 6 | −146781 |

# Total Duck Population in/around stream by month (dil = 1E+06)

| Month | manual.calc.pop.total | model.pop.total | dil |
|---|---|---|---|
| Jan | 1.1718759375 | 1 | −146667 |
| Feb | 0.0001562498 | 0 | −1000000 |
| Mar | 0.0001562498 | 0 | −1000000 |
| Apr | 0.0001562498 | 0 | −1000000 |
| May | 1.1718759375 | 1 | −146667 |
| Jun | 1.1718759375 | 1 | −146667 |
| Jul | 1.1718759375 | 1 | −146667 |
| Aug | 0.0001562498 | 0 | −1000000 |
| Sep | 0.0001562498 | 0 | −1000000 |
| Oct | 0.0001562498 | 0 | −1000000 |
| Nov | 1.1718759375 | 1 | −146667 |
| Dec | 1.1718759375 | 1 | −146667 |

## Total Duck Population on pasture (dil = 1E+06)

| manual.calc.pop.total | model.pop.total | dil |
|:---:|:---:|:---|
| 0.20836127775 | 0 | −1e+06 |

# Total Duck Population on pasture by month (dil = 1E+06)

| Month | manual.calc.pop.total | model.pop.total | dil |
|---|---|---|---|
| Jan | 3.472225e−02 | 0 | −1e+06 |
| Feb | 4.629625e−06 | 0 | −1e+06 |
| Mar | 4.629625e−06 | 0 | −1e+06 |
| Apr | 4.629625e−06 | 0 | −1e+06 |
| May | 3.472225e−02 | 0 | −1e+06 |
| Jun | 3.472225e−02 | 0 | −1e+06 |
| Jul | 3.472225e−02 | 0 | −1e+06 |
| Aug | 4.629625e−06 | 0 | −1e+06 |
| Sep | 4.629625e−06 | 0 | −1e+06 |
| Oct | 4.629625e−06 | 0 | −1e+06 |
| Nov | 3.472225e−02 | 0 | −1e+06 |
| Dec | 3.472225e−02 | 0 | −1e+06 |

## Total Duck Population in forest (dil = 1E+06)

| manual.calc.pop.total | model.pop.total | dil |
|---|---|---|
| 0.1562709583125 | 0 | −1e+06 |

# Total Duck Population in forest by month (dil = 1E+06)

| Month | manual.calc.pop.total | model.pop.total | dil |
|---|---|---|---|
| Jan | 2.604169e−02 | 0 | −1e+06 |
| Feb | 3.472219e−06 | 0 | −1e+06 |
| Mar | 3.472219e−06 | 0 | −1e+06 |
| Apr | 3.472219e−06 | 0 | −1e+06 |
| May | 2.604169e−02 | 0 | −1e+06 |
| Jun | 2.604169e−02 | 0 | −1e+06 |
| Jul | 2.604169e−02 | 0 | −1e+06 |
| Aug | 3.472219e−06 | 0 | −1e+06 |
| Sep | 3.472219e−06 | 0 | −1e+06 |
| Oct | 3.472219e−06 | 0 | −1e+06 |
| Nov | 2.604169e−02 | 0 | −1e+06 |
| Dec | 2.604169e−02 | 0 | −1e+06 |

## Total Duck Population on RAOCUT (dil = 1E+06)

| manual.calc.pop.total | model.pop.total | dil |
|---|---|---|
| 0.104180638875 | 0 | −1e+06 |

## Total Duck Population on RAOCUT by month (dil = 1E+06)

| Month | manual.calc.pop.total | model.pop.total | dil |
|---|---|---|---|
| Jan | 1.736112e−02 | 0 | −1e+06 |
| Feb | 2.314813e−06 | 0 | −1e+06 |
| Mar | 2.314813e−06 | 0 | −1e+06 |
| Apr | 2.314813e−06 | 0 | −1e+06 |
| May | 1.736112e−02 | 0 | −1e+06 |
| Jun | 1.736112e−02 | 0 | −1e+06 |
| Jul | 1.736112e−02 | 0 | −1e+06 |
| Aug | 2.314813e−06 | 0 | −1e+06 |
| Sep | 2.314813e−06 | 0 | −1e+06 |
| Oct | 2.314813e−06 | 0 | −1e+06 |
| Nov | 1.736112e−02 | 0 | −1e+06 |
| Dec | 1.736112e−02 | 0 | −1e+06 |

## Total bacteria load from Duck (dil = 1E+06)

| manual.calc.bac.total | model.bac.total | dil |
|---|---|---|
| 6000805024.23018 | 4800000180 | −200107 |

# Total bacteria load from Duck by month (dil = 1E+06)

| Month | manual.calc.bac.total | model.bac.total | dil |
|---|---|---|---|
| Jan | 1000000837.5 | 8e+08 | −200001 |
| Feb | 133333.2 | 0e+00 | −1000000 |
| Mar | 133333.2 | 0e+00 | −1000000 |
| Apr | 133333.2 | 0e+00 | −1000000 |
| May | 1000000837.5 | 8e+08 | −200001 |
| Jun | 1000000837.5 | 8e+08 | −200001 |
| Jul | 1000000837.5 | 8e+08 | −200001 |
| Aug | 133333.2 | 0e+00 | −1000000 |
| Sep | 133333.2 | 0e+00 | −1000000 |
| Oct | 133333.2 | 0e+00 | −1000000 |
| Nov | 1000000837.5 | 8e+08 | −200001 |
| Dec | 1000000837.5 | 8e+08 | −200001 |

# Total bacteria load from Duck in/around stream (dil = 1E+06)

| manual.calc.bac.total | model.bac.total | dil |
|---|---|---|
| 5625754710.21579 | 4800000180 | −146781 |

# Total bacteria load from Duck in/around stream by month (dil = 1E+06)

| Month | manual.calc.bac.total | model.bac.total | dil |
|-------|-----------------------|-----------------|------|
| Jan | 937500785.2 | 8e+08 | −146667 |
| Feb | 124999.9 | 0e+00 | −1000000 |
| Mar | 124999.9 | 0e+00 | −1000000 |
| Apr | 124999.9 | 0e+00 | −1000000 |
| May | 937500785.2 | 8e+08 | −146667 |
| Jun | 937500785.2 | 8e+08 | −146667 |
| Jul | 937500785.2 | 8e+08 | −146667 |
| Aug | 124999.9 | 0e+00 | −1000000 |
| Sep | 124999.9 | 0e+00 | −1000000 |
| Oct | 124999.9 | 0e+00 | −1000000 |
| Nov | 937500785.2 | 8e+08 | −146667 |
| Dec | 937500785.2 | 8e+08 | −146667 |

## Total bacteria load from Duck on pasture (dil = 1E+06)

| manual.calc.bac.total | model.bac.total | dil |
|:---:|:---:|:---:|
| 166689028.450838 | 0 | −1e+06 |

# Total bacteria laod from Duck on pasture by month (dil = 1E+06)

| Month | manual.calc.bac.total | model.bac.total | dil |
|-------|----------------------|-----------------|--------|
| Jan | 27777801.0 | 0 | −1e+06 |
| Feb | 3703.7 | 0 | −1e+06 |
| Mar | 3703.7 | 0 | −1e+06 |
| Apr | 3703.7 | 0 | −1e+06 |
| May | 27777801.0 | 0 | −1e+06 |
| Jun | 27777801.0 | 0 | −1e+06 |
| Jul | 27777801.0 | 0 | −1e+06 |
| Aug | 3703.7 | 0 | −1e+06 |
| Sep | 3703.7 | 0 | −1e+06 |
| Oct | 3703.7 | 0 | −1e+06 |
| Nov | 27777801.0 | 0 | −1e+06 |
| Dec | 27777801.0 | 0 | −1e+06 |

# Total bacteria load from Duck in forest (dil = 1E+06)

| manual.calc.bac.total | model.bac.total | dil |
|---|---|---|
| 125016771.338129 | 0 | −1e+06 |

# Total bacteria load from Duck in forest by month (dil = 1E+06)

| Month | manual.calc.bac.total | model.bac.total | dil |
|---|---|---|---|
| Jan | 20833350.781 | 0 | −1e+06 |
| Feb | 2777.775 | 0 | −1e+06 |
| Mar | 2777.775 | 0 | −1e+06 |
| Apr | 2777.775 | 0 | −1e+06 |
| May | 20833350.781 | 0 | −1e+06 |
| Jun | 20833350.781 | 0 | −1e+06 |
| Jul | 20833350.781 | 0 | −1e+06 |
| Aug | 2777.775 | 0 | −1e+06 |
| Sep | 2777.775 | 0 | −1e+06 |
| Oct | 2777.775 | 0 | −1e+06 |
| Nov | 20833350.781 | 0 | −1e+06 |
| Dec | 20833350.781 | 0 | −1e+06 |

## Total bacteria load from Duck on RAOCUT (dil = 1E+06)

| manual.calc.pop.total | model.pop.total | dil |
|:---:|:---:|:---:|
| 0.104180638875 | 0 | −1e+06 |

# Accum load from Duck on Pasture by month (dil = 1E+06)

| Month | manual.calc.bac.total | model.bac.total | dil |
|---|---|---|---|
| Jan | 694445.0260 | 0 | −1e+06 |
| Feb | 92.5925 | 0 | −1e+06 |
| Mar | 92.5925 | 0 | −1e+06 |
| Apr | 92.5925 | 0 | −1e+06 |
| May | 694445.0260 | 0 | −1e+06 |
| Jun | 694445.0260 | 0 | −1e+06 |
| Jul | 694445.0260 | 0 | −1e+06 |
| Aug | 92.5925 | 0 | −1e+06 |
| Sep | 92.5925 | 0 | −1e+06 |
| Oct | 92.5925 | 0 | −1e+06 |
| Nov | 694445.0260 | 0 | −1e+06 |
| Dec | 694445.0260 | 0 | −1e+06 |

# Accum load from Duck in Forest by month (dil = 1E+06)

| Month | manual.calc.bac.total | model.bac.total | dil |
|-------|-----------------------|-----------------|---------|
| Jan | 694445.0260 | 0 | −1e+06 |
| Feb | 92.5925 | 0 | −1e+06 |
| Mar | 92.5925 | 0 | −1e+06 |
| Apr | 92.5925 | 0 | −1e+06 |
| May | 694445.0260 | 0 | −1e+06 |
| Jun | 694445.0260 | 0 | −1e+06 |
| Jul | 694445.0260 | 0 | −1e+06 |
| Aug | 92.5925 | 0 | −1e+06 |
| Sep | 92.5925 | 0 | −1e+06 |
| Oct | 92.5925 | 0 | −1e+06 |
| Nov | 694445.0260 | 0 | −1e+06 |
| Dec | 694445.0260 | 0 | −1e+06 |

# Accum load from Duck on RAOCUT by month (dil = 1E+06)

| Month | manual.calc.bac.total | model.bac.total | dil |
|-------|----------------------|-----------------|---------|
| Jan | 694445.0260 | 0 | −1e+06 |
| Feb | 92.5925 | 0 | −1e+06 |
| Mar | 92.5925 | 0 | −1e+06 |
| Apr | 92.5925 | 0 | −1e+06 |
| May | 694445.0260 | 0 | −1e+06 |
| Jun | 694445.0260 | 0 | −1e+06 |
| Jul | 694445.0260 | 0 | −1e+06 |
| Aug | 92.5925 | 0 | −1e+06 |
| Sep | 92.5925 | 0 | −1e+06 |
| Oct | 92.5925 | 0 | −1e+06 |
| Nov | 694445.0260 | 0 | −1e+06 |
| Dec | 694445.0260 | 0 | −1e+06 |