

Total number of duck (dil = 1E+06)

| Month | Manual     | Model      | dil |
|-------|------------|------------|-----|
| Jan   | 28.5992500 | 28.5992500 | 0   |
| Feb   | 0.2859925  | 0.2859925  | 0   |
| Mar   | 0.2859925  | 0.2859925  | 0   |
| Apr   | 0.2859925  | 0.2859925  | 0   |
| May   | 28.5992500 | 28.5992500 | 0   |
| Jun   | 28.5992500 | 28.5992500 | 0   |
| Jul   | 28.5992500 | 28.5992500 | 0   |
| Aug   | 0.2859925  | 0.2859925  | 0   |
| Sep   | 0.2859925  | 0.2859925  | 0   |
| Oct   | 0.2859925  | 0.2859925  | 0   |
| Nov   | 28.5992500 | 28.5992500 | 0   |
| Dec   | 28.5992500 | 28.5992500 | 0   |

Number of duck on land (dil = 1E+06)

| Month | Manual       | Model        | dil |
|-------|--------------|--------------|-----|
| Jan   | 2.859925e-05 | 2.859925e-05 | 0   |
| Feb   | 2.859925e-07 | 2.859925e-07 | 0   |
| Mar   | 2.859925e-07 | 2.859925e-07 | 0   |
| Apr   | 2.859925e-07 | 2.859925e-07 | 0   |
| May   | 2.859925e-05 | 2.859925e-05 | 0   |
| Jun   | 2.859925e-05 | 2.859925e-05 | 0   |
| Jul   | 2.859925e-05 | 2.859925e-05 | 0   |
| Aug   | 2.859925e-07 | 2.859925e-07 | 0   |
| Sep   | 2.859925e-07 | 2.859925e-07 | 0   |
| Oct   | 2.859925e-07 | 2.859925e-07 | 0   |
| Nov   | 2.859925e-05 | 2.859925e-05 | 0   |
| Dec   | 2.859925e-05 | 2.859925e-05 | 0   |

Number of duck in stream (dil = 1E+06)

| Month | Manual     | Model      | dil |
|-------|------------|------------|-----|
| Jan   | 28.5992214 | 28.5992214 | 0   |
| Feb   | 0.2859922  | 0.2859922  | 0   |
| Mar   | 0.2859922  | 0.2859922  | 0   |
| Apr   | 0.2859922  | 0.2859922  | 0   |
| May   | 28.5992214 | 28.5992214 | 0   |
| Jun   | 28.5992214 | 28.5992214 | 0   |
| Jul   | 28.5992214 | 28.5992214 | 0   |
| Aug   | 0.2859922  | 0.2859922  | 0   |
| Sep   | 0.2859922  | 0.2859922  | 0   |
| Oct   | 0.2859922  | 0.2859922  | 0   |
| Nov   | 28.5992214 | 28.5992214 | 0   |
| Dec   | 28.5992214 | 28.5992214 | 0   |

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

| Month | Manual      | Model       | dil |
|-------|-------------|-------------|-----|
| Jan   | 22879400000 | 22879400858 | 0   |
| Feb   | 228794000   | 228794009   | 0   |
| Mar   | 228794000   | 228794009   | 0   |
| Apr   | 228794000   | 228794009   | 0   |
| May   | 22879400000 | 22879400858 | 0   |
| Jun   | 22879400000 | 22879400858 | 0   |
| Jul   | 22879400000 | 22879400858 | 0   |
| Aug   | 228794000   | 228794009   | 0   |
| Sep   | 228794000   | 228794009   | 0   |
| Oct   | 228794000   | 228794009   | 0   |
| Nov   | 22879400000 | 22879400858 | 0   |
| Dec   | 22879400000 | 22879400858 | 0   |

## Bacteria load on land from duck (dil = 1E+06)

| Month | Manual    | Model     | dil |
|-------|-----------|-----------|-----|
| Jan   | 22879.400 | 22879.401 | 0   |
| Feb   | 228.794   | 228.794   | 0   |
| Mar   | 228.794   | 228.794   | 0   |
| Apr   | 228.794   | 228.794   | 0   |
| May   | 22879.400 | 22879.401 | 0   |
| Jun   | 22879.400 | 22879.401 | 0   |
| Jul   | 22879.400 | 22879.401 | 0   |
| Aug   | 228.794   | 228.794   | 0   |
| Sep   | 228.794   | 228.794   | 0   |
| Oct   | 228.794   | 228.794   | 0   |
| Nov   | 22879.400 | 22879.401 | 0   |
| Dec   | 22879.400 | 22879.401 | 0   |

## Bacteria load to stream from duck (dil = 1E+06)

| Month | Manual      | Model       | dil |
|-------|-------------|-------------|-----|
| Jan   | 22879377121 | 22879377979 | 0   |
| Feb   | 228793771   | 228793780   | 0   |
| Mar   | 228793771   | 228793780   | 0   |
| Apr   | 228793771   | 228793780   | 0   |
| May   | 22879377121 | 22879377979 | 0   |
| Jun   | 22879377121 | 22879377979 | 0   |
| Jul   | 22879377121 | 22879377979 | 0   |
| Aug   | 228793771   | 228793780   | 0   |
| Sep   | 228793771   | 228793780   | 0   |
| Oct   | 228793771   | 228793780   | 0   |
| Nov   | 22879377121 | 22879377979 | 0   |
| Dec   | 22879377121 | 22879377979 | 0   |

Bacteria load to land as accum for pasture from duck (dil = 1E+06)

| Month | Manual | Model | dil |
|-------|--------|-------|-----|
| Jan   | 20.0   | 20.0  | 0   |
| Feb   | 0.2    | 0.2   | 0   |
| Mar   | 0.2    | 0.2   | 0   |
| Apr   | 0.2    | 0.2   | 0   |
| May   | 20.0   | 20.0  | 0   |
| Jun   | 20.0   | 20.0  | 0   |
| Jul   | 20.0   | 20.0  | 0   |
| Aug   | 0.2    | 0.2   | 0   |
| Sep   | 0.2    | 0.2   | 0   |
| Oct   | 0.2    | 0.2   | 0   |
| Nov   | 20.0   | 20.0  | 0   |
| Dec   | 20.0   | 20.0  | 0   |

Bacteria load to land as accum for forest from duck (dil = 1E+06)

| Month | Manual | Model | dil |
|-------|--------|-------|-----|
| Jan   | 20.0   | 20.0  | 0   |
| Feb   | 0.2    | 0.2   | 0   |
| Mar   | 0.2    | 0.2   | 0   |
| Apr   | 0.2    | 0.2   | 0   |
| May   | 20.0   | 20.0  | 0   |
| Jun   | 20.0   | 20.0  | 0   |
| Jul   | 20.0   | 20.0  | 0   |
| Aug   | 0.2    | 0.2   | 0   |
| Sep   | 0.2    | 0.2   | 0   |
| Oct   | 0.2    | 0.2   | 0   |
| Nov   | 20.0   | 20.0  | 0   |
| Dec   | 20.0   | 20.0  | 0   |



Bacteria load to land as accum for RAOCUT from duck (dil = 1E+06)

| Month | Manual | Model | dil |
|-------|--------|-------|-----|
| Jan   | 20.0   | 20.0  | 0   |
| Feb   | 0.2    | 0.2   | 0   |
| Mar   | 0.2    | 0.2   | 0   |
| Apr   | 0.2    | 0.2   | 0   |
| May   | 20.0   | 20.0  | 0   |
| Jun   | 20.0   | 20.0  | 0   |
| Jul   | 20.0   | 20.0  | 0   |
| Aug   | 0.2    | 0.2   | 0   |
| Sep   | 0.2    | 0.2   | 0   |
| Oct   | 0.2    | 0.2   | 0   |
| Nov   | 20.0   | 20.0  | 0   |
| Dec   | 20.0   | 20.0  | 0   |

Bacteria load limit to land as accum for pasture from duck (dil = 1E+06)

| Month | Manual | Model | dil |
|-------|--------|-------|-----|
| Jan   | 180.0  | 180.0 | 0   |
| Feb   | 1.8    | 1.8   | 0   |
| Mar   | 1.8    | 1.8   | 0   |
| Apr   | 1.8    | 1.8   | 0   |
| May   | 180.0  | 180.0 | 0   |
| Jun   | 180.0  | 180.0 | 0   |
| Jul   | 180.0  | 180.0 | 0   |
| Aug   | 1.8    | 1.8   | 0   |
| Sep   | 1.8    | 1.8   | 0   |
| Oct   | 1.8    | 1.8   | 0   |
| Nov   | 180.0  | 180.0 | 0   |
| Dec   | 180.0  | 180.0 | 0   |

Bacteria load limit to land as accum for forest from duck (dil = 1E+06)

| Month | Manual | Model | dil |
|-------|--------|-------|-----|
| Jan   | 180.0  | 180.0 | 0   |
| Feb   | 1.8    | 1.8   | 0   |
| Mar   | 1.8    | 1.8   | 0   |
| Apr   | 1.8    | 1.8   | 0   |
| May   | 180.0  | 180.0 | 0   |
| Jun   | 180.0  | 180.0 | 0   |
| Jul   | 180.0  | 180.0 | 0   |
| Aug   | 1.8    | 1.8   | 0   |
| Sep   | 1.8    | 1.8   | 0   |
| Oct   | 1.8    | 1.8   | 0   |
| Nov   | 180.0  | 180.0 | 0   |
| Dec   | 180.0  | 180.0 | 0   |

Bacteria load limit to land as accum for RAOCUT from duck (dil = 1E+06)

| Month | Manual | Model | dil |
|-------|--------|-------|-----|
| Jan   | 180.0  | 180.0 | 0   |
| Feb   | 1.8    | 1.8   | 0   |
| Mar   | 1.8    | 1.8   | 0   |
| Apr   | 1.8    | 1.8   | 0   |
| May   | 180.0  | 180.0 | 0   |
| Jun   | 180.0  | 180.0 | 0   |
| Jul   | 180.0  | 180.0 | 0   |
| Aug   | 1.8    | 1.8   | 0   |
| Sep   | 1.8    | 1.8   | 0   |
| Oct   | 1.8    | 1.8   | 0   |
| Nov   | 180.0  | 180.0 | 0   |
| Dec   | 180.0  | 180.0 | 0   |