

TABLES OF POISSON RANDOM NUMBERS

by

Peter A. Lachenbruch
University of North Carolina
at Chapel Hill

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DEPARTMENT OF BIostatISTICS

UNIVERSITY OF NORTH CAROLINA

Chapel Hill, N. C.

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The Poisson distribution is used in many fields. Familiar examples of its application are radioactive decay, emission of electrons from vacuum tubes, telephone service, and traffic problems. It is also used widely in the field of stochastic processes, the Poisson process being of fundamental importance.

The Poisson distribution may be found as a limiting case of the binomial or from basic assumptions. We shall briefly outline the derivation.

Suppose the probability of an event occurring in a time interval Δt is approximately $\mu\Delta t$ ($\mu > 0$) and that the chance of more than one event in time $\Delta t \rightarrow 0$ as $\Delta t \rightarrow 0$. Thus, the chance of no event occurring in Δt is $(1 - \mu\Delta t)$. Consider a time interval T which is divided into n equal subintervals of length $\Delta t = T/n$. The chance that exactly k events occur in time T is given by the binomial

$$P(k) = \binom{n}{k} \left(\frac{\mu T}{n}\right)^k \left(1 - \frac{\mu T}{n}\right)^{n-k}.$$

This can be written

$$\begin{aligned} P(k) &= \frac{n!}{k!(n-k)!} \frac{(\mu T)^k}{n^k} \left(1 - \frac{\mu T}{n}\right)^{n-k} \\ &= \frac{n(n-1)\cdots(n-k+1)}{n^k} \frac{(\mu T)^k}{k!} \left(1 - \frac{\mu T}{n}\right)^{n-k}. \end{aligned}$$

As $n \rightarrow \infty$ (since we want the intervals to tend to 0), this becomes

$$P(k) = \frac{(\mu T)^k}{k!} e^{-\mu T}.$$

For a unit interval of time, we have

$$\text{Prob}(k \text{ events}) = \frac{e^{-\mu} \mu^k}{k!} .$$

The mean of the Poisson Distribution is

$$\sum_{k=0}^{\infty} \frac{k e^{-\mu} \mu^k}{k!} = \mu \sum_{k=1}^{\infty} \frac{e^{-\mu} \mu^{k-1}}{(k-1)!} = \mu .$$

Its variance is

$$\sum_{k=0}^{\infty} \frac{k(k-1) e^{-\mu} \mu^k}{k!} + \mu - \mu^2 = \mu^2 \sum_{k=2}^{\infty} \frac{e^{-\mu} \mu^{k-2}}{(k-2)!} + \mu - \mu^2 = \mu .$$

Higher moments can be found using the moment generating function:

$$\begin{aligned} M(t) &= E(e^{tx}) = \sum_{x=0}^{\infty} e^{tx} \frac{e^{-\mu} \mu^x}{x!} \\ &= e^{-\mu} \sum_{x=0}^{\infty} (\mu e^t)^x / x! = e^{-\mu} e^{\mu e^t} \\ &= e^{\mu(e^t - 1)} \end{aligned}$$

An important property that we shall use here is that the sum of two independent Poisson variables with parameters μ_1 and μ_2 has a Poisson distribution with parameter $\mu_1 + \mu_2$.

Proof: Let $x_1 \sim \text{Pois}(\mu_1)$ $x_2 \sim \text{Pois}(\mu_2)$

$$\begin{aligned} f(x_1, x_2) &= \frac{e^{-\mu_1} \mu_1^{x_1}}{x_1!} \frac{e^{-\mu_2} \mu_2^{x_2}}{x_2!} \\ &= \frac{e^{-(\mu_1 + \mu_2)} \mu_1^{x_1} \mu_2^{x_2}}{x_1! x_2!} . \end{aligned}$$

Let $w = x_1 + x_2$

$v = x_2$.

Then

$$f(w, v) = \frac{e^{-(\mu_1 + \mu_2)} \mu_1^{w-v} \mu_2^v}{(w-v)! v!}$$

$$f(w) = e^{-(\mu_1 + \mu_2)} \sum_{v=0}^w \frac{\mu_1^{w-v} \mu_2^v}{(w-v)! v!} \cdot \frac{w!}{v!}$$

$$= \frac{e^{-(\mu_1 + \mu_2)} (\mu_1 + \mu_2)^w}{w!}$$

By using this property repeatedly, we can generate Poisson random numbers of any multiple of our original parameters. Thus, to find a Poisson random number with parameter .4, we could add together four Poisson random numbers with parameter .1.

The technique used for generating the random numbers is known as the Probability Integral transformation. If X is a random number from some distribution with cumulative distribution F(x), then F(x) has a uniform (0,1) distribution. Thus, there is a one-to-one correspondence between the uniform distribution and the distribution with cumulative F(x).

On the following pages are tables of Poisson distributed random variables. They were generated on the IBM 360/30 at UNC. The statistics of the uniform random number generator showed that it gave frequencies in each of the intervals .00(.01)1.00 not significantly different ($\chi^2_{100} = 93.5$). Serial correlations of lags 1,2,3,4,5 were likewise not significantly different from 0. These statistics are based on samples of size 10000.

The statistics for the Poisson variables are as follows. The χ^2 test of variance was used.

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0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0
2 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 1 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 0 0 0 0
0 0 0 0 0 0 2 1 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0
0
0 0 0 0 0 0 0 0 1 0 1 0 0 0 0 0 0 0 0 0
2 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0
3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 1 0 0 0 0 1 0 0 1 0 0 0 0 0
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0 0 0 1 0 0 0 0 0 0 1 0 0 0 0 0 1 0 1 0
0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 1 0 0 0 1
0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0

TABLE OF 10000 POISSON RANDOM VARIATES WITH PARAMETER = 0.50

0	1	0	0	1	0	0	0	1	0	0	1	0	2	1	1	0	1	0	2
0	1	0	1	0	0	0	0	0	2	0	2	0	0	1	2	1	0	0	0
2	0	1	0	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1
1	0	0	0	0	1	0	0	1	1	0	3	0	1	1	1	0	2	1	0
1	0	0	0	0	1	0	0	1	0	0	0	0	0	1	1	0	0	2	0
0	0	1	0	1	1	2	0	1	0	0	1	0	0	0	1	0	2	0	0
2	1	0	0	0	0	0	2	1	1	0	0	0	0	1	1	4	1	0	0
1	0	0	0	0	1	1	1	0	0	1	0	0	1	2	1	1	1	0	1
0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	2	1	0	0	1
1	0	1	2	1	0	0	1	3	0	0	0	2	3	1	0	0	0	0	0
0	0	3	0	0	0	2	1	0	0	0	0	0	1	1	0	0	0	0	0
1	0	0	0	0	0	1	0	1	1	0	0	1	0	1	0	0	1	0	0
1	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	1
1	0	0	0	1	0	1	0	0	0	0	0	0	0	2	1	0	1	0	1
0	0	1	0	0	0	0	1	1	0	0	0	1	0	0	1	1	0	0	1
0	1	3	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	1	0
0	2	1	1	1	0	0	0	0	0	1	1	0	1	2	1	0	1	0	0
0	1	1	1	1	0	0	1	0	3	0	0	0	1	1	0	1	0	0	1
0	0	0	0	0	0	0	1	0	0	0	0	1	1	2	0	0	0	0	0
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0	1	0	2	0	1	0	0	1	1	0	0	0	0	0	0	0	1	0	0
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2	0	0	0	1	1	1	0	0	1	0	0	2	1	1	0	0	1	0	0
1	0	0	3	1	0	0	0	2	0	0	0	1	0	1	0	0	0	1	0
0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	2	0	1	0	0
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2	0	0	0	0	0	3	1	2	0	1	1	0	0	0	0	0	0	0	1
2	0	0	0	0	0	0	1	0	0	1	0	1	0	1	1	0	1	1	0
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1	0	0	2	0	0	0	0	1	1	0	0	1	1	0	1	0	0	0	1
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0	1	1	0	0	0	1	1	0	1	0	0	0	0	0	1	0	0	0	3
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2	1	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	0	0	0
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0	1	2	1	0	0	0	0	1	0	0	2	0	0	0	0	1	0	0	0
0	0	1	0	0	0	0	1	1	1	0	2	1	1	2	1	0	0	0	0
0	1	0	0	1	0	0	0	0	0	1	2	2	0	0	2	0	2	1	1
2	0	0	0	1	1	0	0	0	0	0	1	1	0	1	0	1	0	0	0
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2	1	1	0	0	0	1	1	0	0	1	0	0	1	0	0	0	0	0	1
1	0	1	1	1	1	1	0	0	1	2	2	0	0	1	0	0	2	0	3
1	0	0	1	0	1	0	2	1	0	1	0	0	0	2	1	1	4	0	1
2	1	1	0	1	0	1	1	0	1	0	1	0	0	1	1	0	1	2	0
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1	2	2	1	1	1	0	0	1	0	1	1	0	1	0	2	1	0	0	0
0	0	1	1	0	0	1	0	0	1	1	0	0	0	0	0	0	0	1	1
1	1	1	1	0	0	1	0	2	0	0	0	1	0	1	2	0	0	1	1
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0	3	1	1	0	0	0	2	0	0	0	0	0	0	0	0	1	1	0	0
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0	0	1	0	1	1	0	1	0	0	4	2	1	0	0	1	1	1	0	0
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1	2	0	0	1	1	0	1	0	0	0	0	0	0	1	0	0	0	0	1
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1	0	0	1	1	0	1	0	1	0	0	0	1	0	2	1	0	0	1	0
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0	0	0	0	0	1	1	1	1	0	0	0	1	1	1	0	0	0	0	0
0	3	0	0	0	1	1	1	1	0	0	1	1	1	1	0	0	1	0	0
1	1	1	0	0	0	1	0	0	1	0	0	0	0	1	0	0	1	2	0
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1	1	1	0	1	1	0	0	1	0	0	0	0	1	0	0	1	0	1	2
0	0	1	1	0	0	2	1	1	0	0	0	2	2	2	0	1	2	0	0
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1	0	0	0	0	1	0	0	0	0	0	0	0	0	2	0	1	0	2	0
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1	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0
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1	0	1	0	0	3	0	0	0	1	0	0	1	0	1	0	0	0	2	0
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1	0	1	1	1	1	0	0	0	0	2	1	0	2	0	0	1	1	1	0
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2	0	0	0	1	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0
0	1	2	0	1	1	1	1	1	1	0	0	0	0	0	0	0	1	1	0
1	1	1	0	2	0	0	1	0	1	0	1	0	0	1	0	0	1	0	1
1	1	0	0	1	0	0	0	1	0	0	1	0	0	1	1	1	0	0	0
0	2	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0
0	1	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1
1	3	0	1	0	0	0	1	1	1	1	0	1	1	0	0	2	0	0	1
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1	1	1	1	0	0	0	0	0	0	0	0	0	1	2	0	2	1	1	0
0	0	0	1	0	0	0	0	1	0	0	3	1	0	1	0	0	0	1	0
0	1	0	1	1	1	0	2	0	0	0	2	1	0	0	0	1	0	2	0

1	0	0	0	1	1	0	0	0	0	0	0	1	0	0	1	2	0	1	3
0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0
1	1	0	1	0	0	1	0	0	1	0	0	0	0	0	0	1	0	1	0
0	2	0	1	1	0	0	2	1	0	0	1	0	0	0	1	0	1	0	0
1	1	0	0	0	2	0	0	0	0	0	0	1	1	0	0	0	0	1	0
1	1	2	2	0	0	0	0	0	0	0	0	1	0	0	0	2	0	2	0
0	0	2	1	1	1	0	0	0	1	1	1	0	0	0	2	0	1	0	0
1	0	1	1	0	0	1	0	1	0	1	0	1	2	0	1	1	2	2	1
1	1	2	0	0	1	0	0	2	1	0	0	1	0	0	0	0	0	0	0
0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	0	0	0	0
0	0	1	1	1	0	2	1	1	1	1	1	1	0	2	0	0	0	0	0
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0	0	0	2	1	0	1	0	1	0	0	0	1	1	0	3	0	0	0	0
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0	0	0	0	0	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0
0	0	1	0	0	2	0	0	0	1	1	0	1	1	3	0	1	1	2	0
1	0	1	0	2	0	1	0	0	0	0	2	0	0	0	2	0	1	1	0
0	0	0	0	0	0	1	0	1	0	1	0	2	0	0	1	0	0	1	0
0	1	0	0	0	1	0	0	1	1	2	0	0	0	0	0	2	1	2	3
0	2	1	0	0	2	1	1	0	1	0	1	1	0	0	0	1	0	0	1
1	1	0	0	1	0	0	0	0	0	0	1	1	0	0	0	0	1	0	1
0	0	1	1	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	0
1	0	0	1	1	1	0	1	1	0	0	0	0	0	1	1	1	2	0	0
0	0	2	0	1	2	0	0	1	1	0	1	1	1	2	0	0	0	0	0
2	0	0	1	1	1	1	0	1	0	0	0	1	0	0	0	0	0	0	1
0	0	0	0	1	0	1	3	0	1	0	0	0	1	0	2	0	0	1	0
0	0	2	0	0	1	2	0	1	1	1	1	0	0	0	0	0	2	0	0
0	1	1	0	2	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0
0	0	0	0	1	2	0	0	1	0	0	1	1	1	0	0	0	0	0	0
0	0	0	0	1	1	0	0	0	0	0	0	2	0	0	0	0	1	2	0
1	0	1	0	0	0	0	0	0	0	0	1	0	0	1	1	1	1	0	0
2	0	1	0	0	0	0	0	1	1	0	1	0	0	1	1	0	1	0	1
1	0	0	0	0	1	1	0	2	2	0	0	0	0	1	1	0	3	0	0
0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	1	0	0	0	0
0	0	0	1	1	0	0	0	0	3	0	0	1	0	1	2	3	1	0	0
0	0	1	0	0	1	0	0	2	1	3	2	1	0	1	0	1	1	2	0
0	1	0	0	1	1	0	1	0	0	1	0	0	2	0	1	0	0	1	0
0	0	1	1	0	1	2	0	0	0	0	0	0	0	1	0	0	0	0	0
0	0	0	0	1	1	0	1	0	1	1	1	1	0	1	0	0	1	0	0
0	0	1	0	0	0	0	0	0	1	1	0	1	1	1	0	0	0	0	2
0	0	0	1	1	0	0	1	0	2	0	1	0	0	0	1	0	1	0	1
0	0	0	0	1	2	0	0	1	1	0	1	0	0	1	0	1	2	0	0
0	0	0	1	0	0	0	0	0	1	1	1	1	1	0	2	0	0	0	0
0	0	2	1	0	0	0	0	0	0	0	2	1	0	0	0	0	1	1	2
0	0	0	0	3	0	0	0	1	0	0	0	0	1	0	1	0	0	0	1
0	2	0	1	1	2	0	0	0	1	0	1	1	0	0	0	0	0	1	1

CHI-SQUARE= 9760.000 DF=10000

TALLIES

6156	2972	738	120	12	2	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0								

TABLE OF 10000 POISSON RANDOM VARIATES WITH PARAMETER = 1.00

1	1	0	0	0	2	2	1	1	0	1	0	1	2	0	1	1	2	0	1
0	2	3	0	2	2	0	0	0	0	1	0	1	3	1	3	1	2	2	2
1	1	1	1	0	1	3	1	3	1	0	3	0	0	1	2	2	0	2	2
1	2	0	2	3	1	0	1	0	2	1	3	0	2	2	1	1	2	1	0
3	3	0	2	0	0	1	0	2	0	1	2	0	2	0	2	1	1	1	0
0	1	0	1	1	2	0	1	1	1	1	2	2	1	2	0	2	0	2	1
2	1	1	4	1	2	0	1	0	2	0	0	0	1	0	2	0	0	2	1
2	2	0	0	1	2	2	1	1	0	1	1	2	0	0	1	2	3	1	1
2	0	1	1	1	0	1	1	1	1	1	1	3	0	1	3	1	1	1	1
0	0	1	1	0	1	3	0	2	2	3	1	1	0	0	0	0	2	1	0
0	2	1	1	0	0	0	0	4	0	0	0	0	2	1	1	1	0	2	0
0	0	0	2	0	1	0	1	0	2	2	0	1	1	1	0	1	0	0	0
1	3	2	0	2	0	1	0	0	1	0	1	0	1	1	0	3	0	0	2
0	0	0	0	2	1	0	0	0	1	1	2	2	0	2	0	3	2	0	0
0	0	0	0	5	0	1	1	1	0	1	3	0	1	2	2	1	1	1	1
2	2	2	0	2	1	1	0	1	0	2	0	1	0	2	1	1	0	1	4
1	1	2	1	0	2	2	1	0	0	0	0	1	0	2	0	3	0	1	3
1	2	1	1	1	0	1	2	0	0	1	1	0	1	1	3	1	0	1	0
3	0	0	2	0	1	0	0	1	0	1	1	0	0	0	2	1	2	4	0
0	1	1	1	1	1	0	0	1	0	0	0	0	2	2	0	0	2	1	1
1	1	0	4	1	1	1	2	0	0	1	1	1	2	0	1	0	0	0	1
0	0	0	2	2	1	0	2	4	0	1	0	2	1	0	0	1	1	1	1
0	0	1	0	4	0	0	1	0	3	4	0	0	0	3	0	0	1	0	1
1	2	4	2	2	0	3	0	0	1	1	0	1	3	0	1	0	1	1	0
1	0	0	2	2	4	1	3	1	0	1	1	0	2	3	0	2	2	1	1
1	2	1	0	1	2	2	1	2	1	2	2	1	1	3	1	1	0	0	1
2	0	2	2	0	0	0	1	0	2	3	2	4	1	0	2	4	2	1	1
2	0	0	4	1	0	0	1	0	2	1	0	0	0	1	0	1	1	0	1
1	3	2	1	0	3	2	0	1	1	1	3	3	2	0	4	1	0	0	0
0	3	1	0	0	0	0	0	0	2	0	2	2	0	2	4	0	1	0	1
1	0	1	0	1	2	0	2	4	1	0	2	1	3	1	1	0	1	3	0
0	0	2	0	1	1	0	0	0	1	2	1	1	1	0	1	0	0	1	2
1	2	2	3	0	0	1	2	1	1	1	1	2	1	0	2	4	1	0	1
2	1	1	0	1	1	0	2	1	1	1	1	1	2	0	1	1	1	0	0
0	0	2	0	0	0	1	1	0	2	0	2	1	1	1	1	0	0	1	1
1	1	1	0	2	1	2	1	1	0	2	2	0	0	1	2	2	2	0	2
4	2	1	2	0	1	2	2	0	3	0	1	2	0	2	1	1	0	0	1
0	0	0	0	1	2	2	1	2	0	1	1	0	1	1	0	1	1	2	0
2	1	2	1	3	2	0	0	0	0	2	1	2	1	1	2	0	1	0	0
2	1	1	3	1	1	0	1	2	2	4	1	1	2	1	2	0	2	0	0
2	0	0	2	2	1	1	0	1	0	0	0	1	0	4	1	1	1	1	1
2	1	1	0	1	1	0	0	2	1	2	0	1	1	2	1	0	1	2	0
1	0	2	2	5	1	1	1	0	2	0	0	1	0	0	2	2	1	0	0
1	1	2	0	3	2	1	0	1	1	0	0	0	1	1	1	3	0	2	3
1	2	1	0	0	2	0	0	2	1	2	2	1	2	2	2	2	0	2	0
2	0	0	1	0	0	0	0	0	2	3	1	2	1	0	2	0	0	1	0
1	1	1	1	0	1	0	3	2	3	1	2	2	0	1	0	1	2	0	2
1	1	0	2	0	0	2	1	2	2	2	1	0	2	1	1	2	1	2	1
1	2	1	1	0	2	2	2	2	1	2	1	2	1	1	1	2	1	1	0
1	2	1	1	2	1	2	1	0	1	0	0	1	2	3	0	2	2	1	1

0	1	0	3	2	3	0	1	0	2	4	0	1	1	1	2	1	2	0	1
0	0	1	1	0	2	0	1	3	0	0	3	0	2	0	0	1	1	1	0
1	1	1	1	1	2	2	0	2	3	1	2	1	1	1	3	0	1	0	1
1	0	1	1	1	1	1	1	2	0	0	1	1	1	1	0	0	0	0	1
0	0	4	1	2	3	0	1	1	3	2	2	2	1	0	0	1	1	0	0
1	2	0	0	0	0	2	0	2	1	1	2	0	2	0	1	1	1	1	0
1	0	1	1	2	1	0	0	1	0	0	3	1	1	0	3	1	0	0	1
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0	2	1	1	0	0	0	1	1	3	0	1	0	0	1	2	2	0	1	0
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2	0	2	1	0	1	0	0	1	2	1	1	0	0	0	0	0	3	0	0
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0	0	1	3	2	3	1	0	2	2	0	1	1	1	1	1	0	2	0	0
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1	2	2	1	2	1	1	0	2	0	2	0	0	2	1	0	3	3	0	1
2	2	0	3	1	0	0	0	0	2	0	1	1	0	2	0	1	2	2	0
2	2	0	2	2	0	1	1	0	0	0	1	0	1	0	2	2	2	1	0
0	0	0	0	0	0	1	1	3	2	3	1	2	1	0	1	2	1	1	2
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CHI-SQUARE= 9845.000 DF=10000

TALLIFS

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TABLE OF 10000 POISSON RANDOM VARIATES WITH PARAMETER = 5.00

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CHI-SQUARE= 9859.398 DF=10000

TALLIES

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IHC2171

TABLE OF 10000 POISSON RANDOM VARIATES WITH PARAMETER = 10.00

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