What's the chance of rain?

These tables convert the probability of precipitation (PoP) provided by The Weather Channel
to the observed frequency of precipitation.

Warm Season (April - September)

Lead time (days)	Forecasted Probability of Precipitation (PoP)										
	0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1
1	0.02	0.05	0.12	0.31	0.48	0.60	0.69	0.84	0.80	0.94	0.98
2	0.03	0.06	0.14	0.32	0.50	0.56	0.68	0.85	0.81	0.91	-
3	0.03	0.10	0.15	0.33	0.56	0.69	0.65	0.94	0.92	-	-
4	0.04	0.12	0.18	0.34	0.53	0.66	0.65	1.00	0.91	-	-
5	0.06	0.13	0.20	0.35	0.49	0.68	0.70	-	-	-	-
6	0.07	0.17	0.22	0.32	0.48	0.53	0.60	-	-	-	-
7	0.14	0.21	0.26	0.30	0.42	0.72	0.41	-	-	-	-
8	0.16	0.24	0.28	0.26	0.29	0.27	0.34	-	-	-	-
9	0.19	0.25	0.28	0.25	0.30	0.22	0.31	-	-	-	-
overall	0.09	0.15	0.20	0.32	0.48	0.59	0.42	0.86	0.81	0.93	0.97

N : A total of 314,616 PoP-observation pairs were obtained covering the period from 01 November 2008 to 31 October 2010.

Cool Season (October- March)

Lead time (days)	Forecasted Probability of Precipitation (PoP)										
	0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1
1	0.02	0.04	0.10	0.21	0.42	0.52	0.60	0.78	0.82	0.94	0.93
2	0.02	0.05	0.11	0.25	0.50	0.55	0.62	0.76	0.86	0.91	0.93
3	0.03	0.08	0.13	0.32	0.60	0.72	0.80	0.85	-	-	-
4	0.05	0.09	0.16	0.31	0.57	0.69	0.76	0.77	-	-	-
5	0.05	0.12	0.20	0.34	0.50	0.57	0.67	0.65	-	-	-
6	0.07	0.14	0.23	0.32	0.51	0.58	0.71	-	-	-	-
7	0.15	0.18	0.23	0.33	0.45	0.30	0.53	-	-	-	-
8	0.18	0.18	0.22	0.23	0.26	0.23	0.38	-	-	-	-
9	0.19	0.20	0.23	0.23	0.30	0.26	0.34	-	-	-	-
overall	0.09	0.12	0.18	0.29	0.48	0.56	0.44	0.79	0.84	0.93	0.93

N : A total of 289,030 PoP-observation pairs were obtained covering the period from 01 November 2008 to 31 October 2010.

Note: Data is for the Central Climate Region of the US, which includes KY, IL, IN, MO, OH, TN, and WV.
  PoP-lead time pairs with fewer than 30 forecasts are excluded.
Source: Bickel, J.E., E. Floehr, and S-D. Kim. 2011. Comparing NWS PoP Forecasts to Third-Party Providers.
  Monthly Weather Review **139** *3304-3321.*