

## New and Improved Power Ranking (NIPR)

*Nipr={all cats}; Bopper={run,hr,rbi,tb}; Pitchin={w,sv,k,era,whip}*

Team	NIPR	NIPR Rank	BOPPER	BOPPER Rank	PITCHIN	PITCHIN Rank
Bay City Brawlers	-50	10	30	4	-105	11
CRYOGENIC TEDS	62	3	130	1	30	6
KGG 2015	105	1	122	3	89	1
Killer Maltese	32	5	-33	8	87	2
Naperville Weeners	72	2	128	2	55	4
Plainfield Shutouts	-101	12	-83	10	-131	12
Plano Tiburon	-85	11	-94	11	-65	10
Prague Y!	-27	8	-124	12	2	7
RBI's all day	-32	9	-29	7	-42	9
The Giant Squid	41	4	15	6	59	3
Vatican City Popes	-9	7	-79	9	38	5
Winterfell Beardsmen	-9	6	16	5	-16	8

## NIPR for Special Category Areas

*NIPR-1={all cats except your worst}; PQUAL={era,whip}; PQUAN={win,sv,k}*

Team	NIPR-1	NIPR-1 Rank	PQUAL	PQUAL Rank	PQUAN	PQUAN Rank
Bay City Brawlers	-33	10	-148	12	-42	9
CRYOGENIC TEDS	75	3	63	3	28	5
KGG 2015	115	1	28	6	151	1
Killer Maltese	46	5	121	2	23	6
Naperville Weeners	87	2	-0	8	90	2
Plainfield Shutouts	-91	12	-128	11	-148	11
Plano Tiburon	-77	11	-123	10	-25	8
Prague Y!	-7	8	148	1	-175	12
RBI's all day	-18	9	34	4	-61	10
The Giant Squid	47	4	32	5	83	3
Vatican City Popes	5	6	7	7	56	4
Winterfell Beardsmen	-1	7	-36	9	21	7

## NIPR Category Data

Category Z-score \* 100. Average is 0. One stdev better than average is 100. And 1 stdev worse is -100.

Team	Run	Hr	Rbi	Sb	Tb	W	Sv	K	Era	Whip	NIPR
Bay City Brawlers	-40	109	43	-94	8	-73	-145	-12	-198	-98	-50
CRYOGENIC TEDS	123	158	114	-51	126	-20	-30	76	66	61	62
KGG 2015	123	90	123	121	151	172	84	131	19	37	105
Killer Maltese	-62	-7	34	13	-96	15	147	30	146	96	32
Naperville Weeners	214	119	81	-62	98	85	95	95	7	-7	72
Plainfield Shutouts	-80	-124	-4	-19	-124	-125	-103	-170	-71	-185	-101
Plano Tiburon	-126	-104	-74	-148	-73	-38	-30	-12	-82	-163	-85
Prague Y!	-49	-85	-202	218	-161	-143	63	-208	153	143	-27
RBI's all day	-17	-95	-37	3	35	-90	-155	-32	47	22	-32
The Giant Squid	-8	32	-9	57	47	120	63	47	4	61	41
Vatican City Popes	-49	-85	-140	35	-41	85	63	27	-5	19	-9
Winterfell Beardsmen	-31	-7	71	-73	31	15	-51	27	-85	13	-9

## **NIPR Explanation**

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The goal of the NIPR is to give a statistical measure of a team's performance, independent of head-to-head weekly competition. The NIPR measures a team's statistical performance in each category (cat) over the whole season.

For each cat, the NIPR is a team's Z-score for that cat times 100. I multiply by 100, so that the NIPR is a whole number. The Z-score is the number of standard deviations either better or worse than average for a cat. An average performance gives a NIPR of 0, no better or worse than average.

Example: Assume the league average is 9 homers per week and the stdev is 1.

If Team Z averages 9 homers per week, their NIPR is 0.

If team X averages 10 homers per week, then their NIPR for homers is 100.

If Team Y averages 11 homers per week, their NIPR is 200.

If Team DOP averages 8 homers per week, their NIPR is -100.

Other NIPR scores are simply the averages over multiple categories:

NIPR = average(all cats)

NIPR-1 = average( all cats except team's worst)

BOPPER = average(run,hr,rbi,tb)

PQUAN=average(win,k)

PQUAL=average(era,whip)