

## 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	29	5	43	5	30	5
Bayside Tigers	-30	10	-66	13	14	6
CRYOGENIC TEDS	30	4	14	6	67	4
jax suns	-39	11	-62	12	-57	12
KGG 2013	24	6	-57	11	94	3
Killer Maltese	-40	12	-50	10	-48	10
Naperville Lunchbox	59	3	65	3	97	2
Plainfield Shutouts	-43	13	-44	9	-58	13
Plano Tiburon	71	2	59	4	97	1
RBI's all day	-131	14	-131	14	-142	14
The Flying Penguins	-7	8	-17	7	-38	9
The Hills Have RBIs	11	7	87	2	-48	11
The Lazy Robot	90	1	194	1	-1	7
Vatican City Popes	-23	9	-37	8	-6	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	41	5	56	3	-39	9
Bayside Tigers	-18	10	135	2	-124	14
CRYOGENIC TEDS	44	4	29	6	69	5
jax suns	-29	11	2	8	-116	13
KGG 2013	40	6	38	5	128	2
Killer Maltese	-33	12	-56	11	-15	8
Naperville Lunchbox	82	2	39	4	181	1
Plainfield Shutouts	-38	13	-50	10	-56	10
Plano Tiburon	80	3	170	1	80	4
RBI's all day	-117	14	-160	14	-86	11
The Flying Penguins	6	8	2	7	-111	12
The Hills Have RBIs	28	7	-129	13	12	6
The Lazy Robot	111	1	-5	9	-12	7
Vatican City Popes	-12	9	-69	12	89	3

## 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	160	-75	-16	-25	101	-46	113	-31	40	72	29
Bayside Tigers	-105	34	-89	-110	-103	-143	48	-106	110	159	-30
CRYOGENIC TEDS	24	5	21	-97	8	73	140	65	33	26	30
jax suns	16	-67	-112	144	-83	-106	-56	-127	58	-55	-39
KGG 2013	3	-50	-62	-3	-119	154	140	102	66	9	24
Killer Maltese	-1	-80	-104	37	-14	-9	-99	-20	-64	-49	-40
Naperville Lunchbox	-25	144	99	-150	40	147	42	215	67	11	59
Plainfield Shutouts	-69	-46	-52	32	-9	-16	-77	-95	-63	-37	-43
Plano Tiburon	48	1	94	-17	95	65	-12	94	206	134	71
RBI's all day	-262	-97	-31	-79	-133	-83	-219	-88	-92	-229	-131
The Flying Penguins	40	-71	-73	193	38	-120	26	-101	-2	6	-7
The Hills Have RBIs	32	123	117	1	78	21	-7	3	-141	-117	11
The Lazy Robot	112	233	229	126	204	-61	31	36	-96	85	90
Vatican City Popes	28	-54	-21	-52	-101	125	-72	54	-122	-16	-23

## **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)