

## 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	39	5	69	3	27	5
Bayside Tigers	-24	8	-59	12	20	6
CRYOGENIC TEDS	41	3	47	5	60	4
jax suns	-40	12	-32	7	-80	13
KGG 2013	15	6	-92	13	109	1
Killer Maltese	-26	9	-33	8	-31	9
Naperville Lunchbox	41	4	33	6	87	3
Plainfield Shutouts	-48	13	-55	11	-58	11
Plano Tiburon	75	2	60	4	100	2
RBI's all day	-116	14	-125	14	-115	14
The Flying Penguins	-29	11	-48	10	-60	12
The Hills Have RBIs	7	7	69	2	-37	10
The Lazy Robot	91	1	208	1	-11	7
Vatican City Popes	-27	10	-42	9	-11	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	49	5	57	4	-30	9
Bayside Tigers	-10	8	141	2	-130	14
CRYOGENIC TEDS	54	4	33	5	46	5
jax suns	-30	12	-45	9	-121	13
KGG 2013	32	6	60	3	141	2
Killer Maltese	-18	10	-16	7	-13	7
Naperville Lunchbox	63	3	8	6	185	1
Plainfield Shutouts	-42	13	-70	11	-42	10
Plano Tiburon	86	2	196	1	67	4
RBI's all day	-103	14	-101	13	-73	11
The Flying Penguins	-19	11	-51	10	-110	12
The Hills Have RBIs	22	7	-109	14	31	6
The Lazy Robot	114	1	-21	8	-27	8
Vatican City Popes	-14	9	-81	12	76	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	183	-57	26	-25	123	-32	82	-29	39	76	39
Bayside Tigers	-88	29	-101	-98	-77	-142	75	-117	98	184	-24
CRYOGENIC TEDS	98	4	50	-77	34	45	141	48	49	18	41
jax suns	16	-37	-65	134	-42	-117	-69	-126	-5	-85	-40
KGG 2013	-70	-57	-101	-25	-140	181	141	101	106	14	15
Killer Maltese	12	-62	-77	26	-4	-15	-95	-12	0	-33	-26
Naperville Lunchbox	-44	131	50	-159	-5	139	49	231	47	-31	41
Plainfield Shutouts	-44	-78	-68	31	-32	2	-69	-86	-101	-38	-48
Plano Tiburon	64	14	69	6	93	45	-23	88	212	180	75
RBI's all day	-218	-103	-50	-82	-128	-74	-226	-72	-55	-148	-116
The Flying Penguins	-51	-78	-80	201	16	-117	23	-103	-34	-68	-29
The Hills Have RBIs	-6	116	111	-15	55	54	-30	8	-94	-125	7
The Lazy Robot	124	243	251	134	213	-74	43	21	-110	67	91
Vatican City Popes	23	-67	-16	-51	-108	105	-43	47	-151	-11	-27

## **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)