

## 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	40	4		60	4		33	5
Bayside Tigers	-67	13		-40	10		-87	14
CRYOGENIC TEDS	50	3		80	2		55	4
jax suns	-9	9		-12	9		-40	9
KGG 2013	8	8		-103	13		106	1
Killer Maltese	-61	12		-93	12		-48	10
Naperville Lunchbox	56	2		72	3		86	3
Plainfield Shutouts	-41	11		-85	11		-22	8
Plano Tiburon	77	1		47	5		105	2
RBI's all day	-107	14		-150	14		-81	13
The Flying Penguins	25	6		29	7		-16	7
The Hills Have RBIs	-17	10		43	6		-54	11
The Lazy Robot	36	5		155	1		-61	12
Vatican City Popes	10	7		-3	8		24	6

## 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	52	5	99	2	-39	9
Bayside Tigers	-54	13	-72	12	-152	14
CRYOGENIC TEDS	66	3	15	5	23	5
jax suns	-0	9	13	6	-79	12
KGG 2013	26	7	32	4	161	2
Killer Maltese	-53	12	-65	11	-12	8
Naperville Lunchbox	80	2	-6	7	202	1
Plainfield Shutouts	-30	11	-42	10	-10	7
Plano Tiburon	89	1	232	1	43	4
RBI's all day	-95	14	-39	9	-55	10
The Flying Penguins	38	6	40	3	-87	13
The Hills Have RBIs	-4	10	-114	14	8	6
The Lazy Robot	60	4	-76	13	-62	11
Vatican City Popes	19	8	-17	8	58	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	146	-65	21	-5	140	-9	47	-69	61	136	40
Bayside Tigers	-47	36	-89	-69	-59	-178	12	-125	-119	-25	-67
CRYOGENIC TEDS	156	42	55	-91	66	22	198	24	37	-7	50
jax suns	57	-9	-55	159	-40	-86	-68	-73	63	-36	-9
KGG 2013	-141	-40	-76	-41	-154	192	145	131	58	6	8
Killer Maltese	-74	-97	-131	2	-72	-9	-85	-15	-36	-94	-61
Naperville Lunchbox	10	155	86	-162	37	145	39	258	30	-43	56
Plainfield Shutouts	-16	-147	-93	38	-84	37	-6	-58	-68	-16	-41
Plano Tiburon	73	10	35	59	71	53	-23	34	208	256	77
RBI's all day	-209	-128	-120	-62	-143	-55	-218	-55	28	-107	-107
The Flying Penguins	26	-2	24	216	68	-86	12	-87	82	-1	25
The Hills Have RBIs	-37	99	73	-77	37	37	-59	-21	-90	-138	-17
The Lazy Robot	21	193	231	45	175	-117	-32	-7	-179	28	36
Vatican City Popes	36	-46	38	-12	-40	53	39	62	-74	41	10

## **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)