

## 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	24	6		41	6		21	5
Bayside Tigers	-33	11		-29	9		-22	8
CRYOGENIC TEDS	62	3		73	3		79	3
jax suns	-28	10		-26	8		-65	13
KGG 2013	-4	7		-96	13		72	4
Killer Maltese	-55	13		-89	12		-37	10
Naperville Lunchbox	61	4		79	2		89	2
Plainfield Shutouts	-42	12		-79	11		-27	9
Plano Tiburon	76	1		56	4		101	1
RBI's all day	-125	14		-143	14		-118	14
The Flying Penguins	29	5		23	7		-3	7
The Hills Have RBIs	-18	9		42	5		-63	12
The Lazy Robot	63	2		181	1		-43	11
Vatican City Popes	-10	8		-33	10		16	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	35	6	75	2	-41	10
Bayside Tigers	-20	11	59	4	-131	14
CRYOGENIC TEDS	76	4	51	5	51	5
jax suns	-19	10	-31	9	-108	13
KGG 2013	10	7	-17	7	127	2
Killer Maltese	-45	13	-19	8	-19	8
Naperville Lunchbox	84	3	3	6	203	1
Plainfield Shutouts	-33	12	-46	10	-9	7
Plano Tiburon	88	2	203	1	65	4
RBI's all day	-112	14	-99	13	-86	11
The Flying Penguins	44	5	65	3	-96	12
The Hills Have RBIs	-5	9	-136	14	2	6
The Lazy Robot	89	1	-60	12	-41	9
Vatican City Popes	1	8	-47	11	82	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	145	-73	2	-30	89	-34	40	-48	40	109	24
Bayside Tigers	-44	42	-61	-97	-53	-142	32	-120	17	101	-33
CRYOGENIC TEDS	154	26	60	-67	50	50	191	52	52	51	62
jax suns	4	-13	-43	143	-52	-106	-47	-110	35	-96	-28
KGG 2013	-106	-45	-101	-23	-131	145	143	108	14	-48	-4
Killer Maltese	-40	-100	-140	-5	-77	-22	-110	-15	-13	-25	-55
Naperville Lunchbox	26	168	81	-147	40	157	32	248	34	-28	61
Plainfield Shutouts	-48	-122	-77	26	-68	50	-23	-68	-66	-27	-42
Plano Tiburon	66	37	36	32	84	73	-31	57	214	193	76
RBI's all day	-238	-106	-95	-85	-133	-94	-221	-78	-22	-176	-125
The Flying Penguins	35	-29	15	211	72	-106	48	-86	113	17	29
The Hills Have RBIs	-35	86	69	-36	46	14	-47	-9	-131	-142	-18
The Lazy Robot	57	201	251	125	214	-94	-15	12	-173	52	63
Vatican City Popes	22	-73	2	-48	-82	109	8	55	-113	18	-10

## **NIPR Explanation**

*May 2013*

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)