

SGP Values: Right for the Wrong

Reasons By Todd Zola

The Objective

Elsewhere in this manuscript, a system of valuation endorsed by the Masters of Fantasy Baseball was presented. There is another popular method widely used. The method has been nicknamed SGP after its critical element: standings gained points. Alex Patton is most often credited with the derivation of the method and has published it. Art McGee has also published a book detailing the system.

So why have the Masters chosen to publish and endorse the replacement system, nicknamed REP? While the SGP theory appears sound, the methods are flawed. Ultimately, it will be concluded that SGP are *right for the wrong reasons*. Although the study of a perceived flaw will prove rather insignificant, it will unveil a major flaw that indeed impacts its performance.

For the purpose of this discussion, it will be assumed the values generated represent the values earned per player based on pre-season projections.

The SGP Method

The theory is players earn value for every point they help their team gain in typical rotisserie style standings. An SGP denominator is calculated. This is the amount of each stat necessary to move up one place in the standings of that specific category. It is suggested the SGP denominator be calculated using regression. By means of example, say the SGP of HR is 10. This means, for every 10 HR, the player is assigned an SGP. In 2001, Barry Bonds earned 7.3 SGP in HR. This category contribution in terms of SGP is calculated for every player, and the total SGP earned per player is determined. Adjustments are made so the last member of the draft-worthy pool earns zero SGP by subtracting their SGP total from the entire population. This player is assigned a value of \$1. At this point, all the draft-worthy players have a positive amount of SGP. This SGP is broken into a baseline SGP and a marginal SGP. The baseline SGP represents the statistics everyone is forced to purchase, because at minimum, everyone must purchase a \$1 player for each roster spot. The marginal SGP are what give players value. The total of marginal SGP is calculated. The available budget for the league is determined and the amount equivalent to \$1 per league roster spot is deducted. Players are assigned value in proportion to their share of the marginal SGP.

On the surface, this seems reasonable enough. The theory is plausible, and the calculations are self-contained. In fact, the method has certain elegance to it.

The Flaw?

Some opponents of SGP take issue with the calculation of the denominator SGP. As mentioned, the suggestion is to determine the regression between consecutive places in league standings. The question is "What league standings?"

The SGP must be determined from previous year's standings. Studies have shown that the distribution of statistics from one year to the next remain fairly consistent, varying less than 15%. Therefore it is not unreasonable to base the future on what has occurred in the past. Projections incorporate this same principle.

Each league has its own dynamics. Contrast a non-keeper league that uses a draft format with an auction keeper league with no restrictions on dump trading. The standings in the former league will be significantly more bunched than the latter. The result is smaller SGP in the non-keeper, draft league.

Is this really an issue? If one is calculating values for one's own league then plug in SGP specific to one's league. But what if one of the owners employed an alternative strategy or was beset with an inordinate amount of injuries? The SGP from the previous year will be an aberration, yet be incorporated into this year's numbers.

What is the statistical way to minimize this effect? Increase the sample size. So all one has to do is have access to sufficient leagues whose parameters and rules are similar to one's own.

This just seems to be an unreasonable expectation for the typical rotisserie enthusiast. Very few have routine access to this depth of information. Perhaps if the SGP calculation were studied, one could better decide if the perceived uncertainty in the process is detrimental or insignificant.

The Study

The premise is SGP is a flawed system because of the inherent uncertainty in the determination of the SGP denominator. A minimal portion of this uncertainty stems from the use of previous year's statistics to project this year's values. The majority of the uncertainty results from the possibility that the calculated SGP is not representative of the eventual standings. The study is to run the system using the denominator SGP calculated in a statistically acceptable manner and then mimic the effect of a faulty SGP by re-running the system with altered SGP.

The denominator SGP are figured using data from ten similar leagues. That is, the category SGP are determined from ten separate leagues and averaged. It was observed that the difference between any of the individual

categorical SGP and their corresponding average was never greater than 50%. As such, when re-running the system, they were adjusted 50%.

Two sets of values will be run. (We first published this study in 2002, so 2001 data was what we used) The AL 2001 batters provide the first set of statistics. The parameters are 12 teams, \$260 salary cap, 14 hitters per roster and a 65:35 split. The NL 2001 pitchers will

provide the second set. Parameters are 12 teams, \$280 salary cap, 10 pitchers and a 70:30 split. The normal values are headed by SGP. A plus following each statistic indicates that individual SGP is increased by 50%. A minus designates a decrease of 50%. Values calculated from the replacement system outlined elsewhere in this manuscript are included for comparison purposes. These are denoted REP.

The Data

BATTERS	TM	REP	SGP	RBI							
				BA +	BA -	HR +	HR -	+	RBI -	SB +	SB -
Rodriguez A.	TEX	\$47	\$43	\$42	\$45	\$39	\$45	\$44	\$41	\$44	\$40
Suzuki	SEA	\$56	\$41	\$38	\$48	\$41	\$32	\$44	\$34	\$37	\$49
Boone	SEA	\$41	\$36	\$34	\$40	\$34	\$36	\$36	\$36	\$38	\$31
Alomar	CLE	\$43	\$35	\$33	\$39	\$34	\$31	\$36	\$32	\$34	\$37
Ordonez	CH	\$37	\$34	\$33	\$35	\$32	\$33	\$35	\$32	\$33	\$35
Giambi Ja.	OAK	\$38	\$33	\$31	\$38	\$31	\$34	\$34	\$32	\$36	\$28
Beltran	KC	\$38	\$33	\$32	\$34	\$32	\$30	\$34	\$30	\$31	\$35
Gonzalez	CLE	\$35	\$32	\$31	\$35	\$30	\$32	\$31	\$33	\$34	\$26
Thome	CLE	\$28	\$30	\$30	\$29	\$26	\$34	\$30	\$30	\$32	\$24
Cruz	TOR	\$30	\$30	\$31	\$27	\$28	\$31	\$31	\$27	\$28	\$33
Ramirez	BOS	\$30	\$29	\$29	\$31	\$27	\$32	\$29	\$30	\$32	\$24
Cameron	SEA	\$28	\$29	\$30	\$25	\$28	\$27	\$29	\$28	\$27	\$33
Jeter	NYN	\$34	\$28	\$27	\$31	\$28	\$26	\$30	\$25	\$27	\$31
Anderson	ANA	\$28	\$28	\$28	\$28	\$26	\$27	\$27	\$28	\$28	\$26
Koskie	MIN	\$27	\$27	\$28	\$25	\$26	\$27	\$28	\$27	\$26	\$30
Palmeiro	TEX	\$24	\$27	\$28	\$25	\$24	\$32	\$27	\$28	\$29	\$22
Cedeno	DET	\$33	\$27	\$27	\$27	\$28	\$21	\$29	\$22	\$22	\$37
Sweeney	KC	\$28	\$26	\$25	\$28	\$25	\$27	\$26	\$26	\$27	\$24
Soriano	NYN	\$27	\$26	\$27	\$23	\$26	\$24	\$27	\$23	\$23	\$33
Chavez	OAK	\$25	\$26	\$26	\$25	\$24	\$27	\$25	\$26	\$27	\$23
Williams B.	NYN	\$28	\$25	\$24	\$27	\$24	\$25	\$26	\$25	\$26	\$24
Stewart	TOR	\$32	\$25	\$23	\$29	\$25	\$21	\$27	\$22	\$24	\$28
Delgado	TOR	\$22	\$24	\$24	\$23	\$21	\$27	\$24	\$24	\$25	\$20
Martinez	SEA	\$24	\$23	\$23	\$25	\$22	\$23	\$23	\$25	\$25	\$20
Tejada	OAK	\$21	\$23	\$24	\$21	\$21	\$25	\$23	\$24	\$24	\$22
Mondesi	TOR	\$21	\$23	\$25	\$19	\$22	\$24	\$24	\$22	\$21	\$27
Glaus	ANA	\$18	\$23	\$25	\$19	\$20	\$27	\$23	\$24	\$24	\$22
Martinez	NYN	\$21	\$23	\$23	\$22	\$21	\$25	\$22	\$24	\$24	\$19
Dye	OAK	\$22	\$23	\$23	\$22	\$21	\$23	\$22	\$23	\$23	\$21
Conine	BAL	\$26	\$22	\$21	\$25	\$22	\$20	\$22	\$23	\$23	\$21
Konerko	CH	\$20	\$21	\$21	\$21	\$19	\$23	\$21	\$22	\$23	\$17
Rodriguez I.	TEX	\$25	\$21	\$20	\$23	\$20	\$21	\$22	\$19	\$21	\$20
Olerud	SEA	\$22	\$21	\$20	\$23	\$20	\$20	\$20	\$21	\$22	\$17
McLemore	SEA	\$24	\$20	\$21	\$20	\$22	\$16	\$22	\$18	\$17	\$27
Lee	CH	\$19	\$20	\$21	\$19	\$19	\$21	\$20	\$20	\$20	\$21
Nixon	BOS	\$19	\$20	\$20	\$20	\$19	\$21	\$20	\$20	\$21	\$18
Catalanotto	TEX	\$26	\$20	\$18	\$24	\$20	\$17	\$21	\$17	\$19	\$20
Guzman	MIN	\$24	\$19	\$18	\$21	\$20	\$17	\$20	\$17	\$18	\$22
O'Neill	NYN	\$19	\$19	\$20	\$17	\$19	\$19	\$20	\$18	\$18	\$22
Higginson	DET	\$20	\$19	\$19	\$18	\$19	\$18	\$19	\$18	\$18	\$21
Durham	CH	\$19	\$19	\$19	\$17	\$18	\$19	\$19	\$18	\$18	\$21
Kapler	TEX	\$18	\$19	\$19	\$17	\$18	\$18	\$19	\$18	\$17	\$21
Hunter	MIN	\$15	\$18	\$19	\$16	\$17	\$20	\$18	\$19	\$19	\$17
Burks	CLE	\$17	\$18	\$18	\$18	\$16	\$20	\$18	\$18	\$19	\$16
Posada	NYN	\$17	\$17	\$17	\$16	\$16	\$18	\$16	\$18	\$18	\$14

BATTERS	TM	REP	SGP	RBI							
				BA +	BA -	HR +	HR -	+	RBI -	SB +	SB -
Mientkiewicz	MIN	\$19	\$16	\$15	\$20	\$16	\$16	\$16	\$17	\$18	\$14
Long	OAK	\$17	\$16	\$16	\$17	\$16	\$15	\$15	\$17	\$16	\$15
Valentin	CH	\$14	\$16	\$17	\$14	\$14	\$19	\$16	\$16	\$16	\$15
Eckstein	ANA	\$19	\$16	\$15	\$17	\$17	\$12	\$17	\$14	\$14	\$21
Knoblauch	NYN	\$16	\$16	\$17	\$12	\$16	\$14	\$17	\$14	\$13	\$23
Rivas	MIN	\$16	\$15	\$16	\$14	\$16	\$13	\$16	\$14	\$13	\$21
McGriff	TB	\$17	\$15	\$14	\$18	\$15	\$16	\$16	\$15	\$16	\$12
Lawton	MIN	\$17	\$15	\$15	\$16	\$16	\$14	\$16	\$14	\$14	\$17
Sierra	TEX	\$15	\$15	\$15	\$16	\$14	\$17	\$15	\$15	\$16	\$13
Cordova	CLE	\$16	\$15	\$14	\$17	\$14	\$16	\$15	\$15	\$16	\$12
Gonzalez	TOR	\$12	\$15	\$16	\$12	\$15	\$15	\$15	\$16	\$14	\$17
Fullmer	TOR	\$14	\$15	\$15	\$14	\$14	\$15	\$14	\$16	\$15	\$13
Erstad	ANA	\$13	\$14	\$15	\$12	\$14	\$12	\$14	\$14	\$12	\$18
Lofton	CLE	\$12	\$14	\$14	\$12	\$14	\$13	\$14	\$14	\$13	\$15
Vaughn	TB	\$8	\$14	\$15	\$9	\$12	\$16	\$13	\$15	\$13	\$14
Damon	OAK	\$12	\$13	\$14	\$11	\$14	\$12	\$14	\$12	\$11	\$18
Clark T.	DET	\$13	\$13	\$13	\$14	\$13	\$13	\$12	\$14	\$14	\$10
Macias	DET	\$13	\$13	\$13	\$12	\$14	\$11	\$13	\$12	\$12	\$16
Quinn	KC	\$12	\$13	\$13	\$12	\$13	\$13	\$13	\$13	\$13	\$13
Jones J.	MIN	\$13	\$13	\$12	\$13	\$13	\$12	\$13	\$12	\$12	\$13
Richard	BAL	\$11	\$12	\$13	\$11	\$12	\$13	\$12	\$13	\$12	\$13
Batista	BAL	\$6	\$12	\$14	\$8	\$11	\$15	\$11	\$15	\$13	\$11
Daubach	BOS	\$10	\$12	\$13	\$11	\$11	\$14	\$12	\$13	\$13	\$10
Singleton	CH	\$14	\$12	\$11	\$14	\$13	\$10	\$12	\$11	\$12	\$13
Tyner	TB	\$15	\$12	\$12	\$12	\$13	\$8	\$13	\$9	\$9	\$18
Halter	DET	\$11	\$11	\$11	\$13	\$12	\$11	\$11	\$12	\$12	\$10
Fick	DET	\$11	\$11	\$11	\$11	\$10	\$12	\$10	\$11	\$12	\$8
Grieve	TB	\$9	\$11	\$11	\$10	\$11	\$10	\$10	\$12	\$11	\$10
Brosius	NYN	\$11	\$10	\$10	\$12	\$11	\$11	\$10	\$10	\$11	\$9
Hairston	BAL	\$8	\$10	\$12	\$6	\$11	\$9	\$11	\$10	\$8	\$16
Everett	BOS	\$8	\$10	\$11	\$9	\$10	\$11	\$10	\$11	\$10	\$11
Clayton	CH	\$9	\$10	\$10	\$9	\$10	\$9	\$9	\$11	\$10	\$10
Spiezio	ANA	\$9	\$10	\$10	\$10	\$10	\$10	\$10	\$10	\$10	\$9
Winn	TB	\$10	\$10	\$9	\$10	\$10	\$8	\$10	\$10	\$9	\$11
Randa	KC	\$6	\$9	\$10	\$7	\$10	\$10	\$8	\$12	\$10	\$8
Bichette	BOS	\$10	\$9	\$9	\$11	\$10	\$10	\$9	\$10	\$10	\$8
Giambi Je.	OAK	\$9	\$9	\$9	\$10	\$9	\$9	\$9	\$10	\$10	\$7
Bell	SEA	\$7	\$9	\$9	\$8	\$9	\$10	\$8	\$10	\$10	\$8
Segui	BAL	\$10	\$9	\$8	\$11	\$9	\$9	\$9	\$9	\$10	\$7
Bush	TOR	\$11	\$9	\$8	\$11	\$10	\$7	\$10	\$7	\$8	\$10
Easley	DET	\$6	\$9	\$10	\$6	\$9	\$9	\$8	\$10	\$9	\$10
Ibanez	KC	\$8	\$9	\$8	\$9	\$9	\$9	\$8	\$9	\$9	\$7
Kennedy	ANA	\$8	\$8	\$8	\$8	\$9	\$7	\$8	\$8	\$8	\$10
Pierzynski	MIN	\$10	\$8	\$8	\$10	\$9	\$7	\$8	\$9	\$9	\$7
Canseco	CH	\$6	\$8	\$8	\$7	\$8	\$10	\$8	\$9	\$9	\$7
Javier	SEA	\$10	\$8	\$7	\$10	\$9	\$7	\$8	\$7	\$8	\$9
Hernandez	OAK	\$7	\$8	\$8	\$6	\$8	\$9	\$7	\$9	\$8	\$6
Gil	ANA	\$8	\$8	\$7	\$9	\$8	\$7	\$8	\$7	\$8	\$7
Offerman	BOS	\$6	\$7	\$7	\$7	\$8	\$7	\$7	\$8	\$8	\$7
Encarnacion	DET	\$4	\$7	\$8	\$5	\$8	\$8	\$7	\$8	\$7	\$8
Sanchez	KC	\$10	\$7	\$6	\$10	\$9	\$5	\$8	\$6	\$7	\$8
Branyan	CLE	\$3	\$7	\$8	\$5	\$7	\$10	\$7	\$8	\$8	\$6
Hillenbrand	BOS	\$6	\$7	\$7	\$7	\$8	\$8	\$7	\$8	\$8	\$6
Wooten	ANA	\$10	\$7	\$6	\$9	\$8	\$7	\$7	\$7	\$8	\$6
Velarde	NYN	\$7	\$7	\$7	\$8	\$8	\$7	\$7	\$7	\$7	\$7
Liefer	CH	\$5	\$7	\$7	\$6	\$7	\$9	\$7	\$7	\$8	\$5
Gomez	TB	\$7	\$7	\$6	\$8	\$8	\$7	\$7	\$7	\$7	\$6

BATTERS	TM	REP	SGP	RBI							
				BA +	BA -	HR +	HR -	+	RBI -	SB +	SB -
Mora	BAL	\$5	\$7	\$7	\$5	\$8	\$6	\$6	\$8	\$6	\$8
Cox	TB	\$5	\$7	\$7	\$6	\$7	\$8	\$6	\$8	\$7	\$6
Justice	NYN	\$3	\$7	\$8	\$5	\$6	\$9	\$6	\$8	\$7	\$5
Salmon	ANA	\$2	\$7	\$8	\$2	\$6	\$9	\$6	\$7	\$6	\$7
Spencer	NYN	\$5	\$6	\$7	\$6	\$7	\$7	\$6	\$7	\$7	\$6
Stynes	BOS	\$7	\$6	\$6	\$8	\$7	\$6	\$7	\$6	\$7	\$6
Lamb	TEX	\$8	\$6	\$5	\$9	\$8	\$5	\$6	\$6	\$7	\$5
Ortiz	MIN	\$3	\$6	\$7	\$4	\$6	\$9	\$6	\$7	\$7	\$5
Diaz	CLE	\$8	\$6	\$6	\$7	\$7	\$5	\$6	\$8	\$7	\$5
Wilson	SEA	\$7	\$6	\$6	\$6	\$7	\$7	\$6	\$7	\$7	\$5
Simon	DET	\$7	\$6	\$5	\$9	\$7	\$6	\$6	\$6	\$7	\$5
Vizquel	CLE	\$4	\$6	\$7	\$5	\$7	\$5	\$6	\$7	\$5	\$8
Ripken	BAL	\$1	\$6	\$7	\$3	\$6	\$7	\$5	\$8	\$7	\$4
Alicea	KC	\$6	\$6	\$5	\$7	\$7	\$5	\$6	\$6	\$6	\$7
Abernathy	TB	\$6	\$6	\$6	\$6	\$7	\$5	\$6	\$6	\$6	\$6
Young	TEX	\$3	\$6	\$6	\$4	\$6	\$6	\$5	\$7	\$6	\$5
Cruz	DET	\$4	\$6	\$6	\$5	\$6	\$5	\$5	\$7	\$6	\$5
Menechino	OAK	\$1	\$6	\$6	\$3	\$6	\$7	\$4	\$7	\$6	\$5
Martin	SEA	\$3	\$5	\$6	\$4	\$6	\$5	\$5	\$6	\$5	\$6
Guillen	SEA	\$3	\$5	\$5	\$5	\$6	\$5	\$4	\$7	\$5	\$5
O'Leary	BOS	\$2	\$5	\$6	\$3	\$5	\$7	\$4	\$6	\$6	\$4
Buchanan	MIN	\$4	\$5	\$5	\$6	\$6	\$6	\$5	\$5	\$6	\$4
Bordick	BAL	\$4	\$5	\$5	\$4	\$6	\$5	\$5	\$5	\$5	\$6
Johnson	TB	\$6	\$5	\$4	\$7	\$6	\$4	\$5	\$5	\$5	\$4
Cabrera	CLE	\$4	\$5	\$5	\$5	\$6	\$3	\$5	\$5	\$4	\$6
Gibbons	BAL	\$2	\$5	\$5	\$3	\$4	\$7	\$4	\$5	\$5	\$3
Hall	TB	\$7	\$4	\$4	\$6	\$6	\$4	\$4	\$4	\$5	\$4
Palmer	DET	\$1	\$4	\$5	\$2	\$5	\$5	\$4	\$5	\$4	\$4
Varitek	BOS	\$6	\$4	\$3	\$5	\$5	\$4	\$4	\$4	\$5	\$3
Greer	TEX	\$3	\$4	\$3	\$5	\$5	\$4	\$4	\$4	\$4	\$3
Zaun	KC	\$7	\$4	\$3	\$6	\$5	\$4	\$4	\$3	\$4	\$3
Rowand	CW	\$4	\$4	\$3	\$5	\$5	\$3	\$4	\$3	\$4	\$4
Brown	KC	\$1	\$4	\$4	\$2	\$4	\$4	\$3	\$5	\$4	\$4
Rolls	TB	\$4	\$3	\$3	\$4	\$5	\$3	\$4	\$2	\$3	\$6
Molina B.	ANA	\$4	\$3	\$3	\$4	\$4	\$4	\$3	\$4	\$4	\$2
Lansing	BOS	\$1	\$3	\$4	\$3	\$4	\$4	\$3	\$4	\$4	\$3
Huff	TB	\$0	\$3	\$4	\$2	\$4	\$4	\$3	\$5	\$4	\$3
Perry	CH	\$2	\$3	\$3	\$3	\$4	\$4	\$3	\$4	\$4	\$3
Roberts B.	BAL	\$3	\$3	\$3	\$3	\$5	\$2	\$4	\$3	\$2	\$6
Graffanino	CH	\$4	\$3	\$2	\$5	\$4	\$2	\$3	\$2	\$3	\$3
Lopez F.	TOR	\$2	\$3	\$3	\$3	\$4	\$3	\$3	\$3	\$3	\$3
Galarraga	TEX	\$0	\$3	\$3	\$2	\$3	\$4	\$2	\$4	\$3	\$2
Fryman	CLE	\$2	\$3	\$3	\$3	\$4	\$2	\$2	\$4	\$3	\$2
Myers	OAK	\$2	\$3	\$3	\$2	\$3	\$4	\$2	\$3	\$3	\$2
Fletcher	TOR	-\$1	\$3	\$4	-\$1	\$3	\$4	\$1	\$5	\$3	\$2
Paul	CH	\$5	\$3	\$2	\$3	\$4	\$2	\$3	\$2	\$2	\$3
Mirabelli	BOS	\$2	\$2	\$3	\$1	\$3	\$4	\$2	\$3	\$3	\$1
Febles	KC	\$0	\$2	\$3	\$1	\$3	\$3	\$2	\$3	\$2	\$3
Izturis	TOR	\$3	\$2	\$2	\$3	\$4	\$2	\$3	\$1	\$2	\$4
Haselman	TEX	\$4	\$2	\$1	\$3	\$3	\$2	\$2	\$2	\$2	\$1
Hocking	MIN	\$1	\$2	\$2	\$1	\$3	\$2	\$2	\$2	\$2	\$3
McCarty	KC	\$0	\$2	\$2	\$2	\$3	\$3	\$2	\$2	\$2	\$1
LeCroy	MIN	\$5	\$2	\$1	\$4	\$3	\$2	\$2	\$1	\$2	\$1
Kinkade	BAL	\$2	\$2	\$1	\$3	\$3	\$2	\$2	\$2	\$2	\$2
Anderson	BAL	-\$4	\$2	\$4	-\$4	\$2	\$3	\$1	\$4	\$1	\$4
Curtis	TEX	\$2	\$2	\$2	\$2	\$3	\$2	\$2	\$1	\$1	\$3
Wells	TOR	\$3	\$2	\$1	\$4	\$3	\$1	\$2	\$1	\$2	\$2

BATTERS	TM	REP	SGP	RBI							
				BA +	BA -	HR +	HR -	+	RBI -	SB +	SB -
Lewis	BOS	\$2	\$2	\$1	\$3	\$3	\$1	\$2	\$1	\$2	\$2
Caminiti	TEX	-\$1	\$2	\$2	\$1	\$2	\$3	\$1	\$2	\$2	\$1
Palmeiro	ANA	\$0	\$1	\$2	\$1	\$3	\$1	\$1	\$2	\$1	\$2
Allen	MIN	\$1	\$1	\$1	\$2	\$2	\$1	\$1	\$1	\$2	\$1
Matos	BAL	\$0	\$1	\$1	\$1	\$2	\$1	\$2	\$1	\$1	\$3
Johnson	CH	\$2	\$1	\$1	\$1	\$2	\$2	\$1	\$1	\$1	\$1
DeShields	BAL	-\$1	\$1	\$2	-\$1	\$2	\$1	\$1	\$1	\$0	\$3
Latham	TOR	\$1	\$1	\$1	\$2	\$2	\$1	\$1	\$0	\$1	\$1
Garcia	CLE	\$1	\$1	\$0	\$2	\$2	\$1	\$1	\$0	\$1	\$0
Prince	MIN	\$1	\$1	\$1	\$0	\$2	\$2	\$1	\$1	\$1	\$1
Sprague	SEA	\$1	\$1	\$0	\$3	\$2	\$1	\$1	\$1	\$1	\$0
Guillen	TB	\$1	\$1	\$0	\$2	\$2	\$1	\$1	\$0	\$1	\$1
Ledee	TEX	-\$2	\$1	\$1	\$0	\$2	\$1	\$0	\$2	\$1	\$1
Merloni	BOS	\$1	\$1	\$0	\$2	\$2	\$1	\$1	\$1	\$1	\$1
Garciaparra	BOS	\$1	\$1	\$0	\$2	\$2	\$1	\$1	\$0	\$1	\$0
Williams G.	NYY	-\$3	\$1	\$2	-\$3	\$2	\$1	\$0	\$1	-\$1	\$4
Flaherty	TB	\$0	\$1	\$1	\$0	\$2	\$1	\$0	\$1	\$1	\$0
Kielty	MIN	\$0	\$0	\$0	\$1	\$2	\$0	\$1	\$0	\$0	\$1
Martinez	TB	\$0	\$0	\$0	\$0	\$2	\$0	\$0	\$0	\$0	\$1
Alomar	CH	\$1	\$0	\$0	\$0	\$1	\$1	\$0	\$1	\$1	\$0
Gant	OAK	\$0	\$0	\$0	\$1	\$2	\$0	\$0	\$0	\$0	\$0
Saenz	OAK	-\$4	\$0	\$1	-\$2	\$1	\$2	\$0	\$2	\$1	\$0
Cordero	CLE	-\$2	\$0	\$0	\$0	\$1	\$1	\$0	\$1	\$0	\$0
Fernandez	TOR	\$0	\$0	-\$1	\$2	\$1	\$0	\$0	\$0	\$0	-\$1
Hatteberg	BOS	\$0	\$0	\$0	\$0	\$1	\$0	\$0	\$1	\$0	\$0
Pena	TEX	-\$1	\$0	-\$1	\$1	\$1	\$0	\$0	\$0	\$0	-\$1
Lampkin	SEA	-\$3	\$0	\$0	-\$1	\$1	\$1	-\$1	\$0	\$0	\$0
Pickering	BOS	\$0	\$0	-\$1	\$1	\$1	\$0	\$0	-\$1	\$0	-\$1
Mayne	KC	\$0	\$0	\$0	\$0	\$1	\$0	-\$1	\$0	\$0	-\$1
Frye	TOR	-\$1	\$0	\$0	\$0	\$1	\$0	\$0	\$0	\$0	\$0
Joyner	ANA	-\$1	\$0	-\$1	\$0	\$1	\$0	\$0	\$0	\$0	-\$1
Bigbie	BAL	-\$1	\$0	\$0	-\$1	\$1	\$0	\$0	\$0	-\$1	\$0
Berroa	KC	\$0	-\$1	-\$1	\$1	\$1	-\$1	\$0	-\$1	\$0	\$0
Taubensee	CLE	\$1	-\$1	-\$1	\$0	\$1	\$0	-\$1	-\$1	\$0	-\$1
Byrnes	OAK	-\$1	-\$1	-\$1	\$0	\$1	\$0	\$0	-\$1	\$0	-\$1
Blake	BAL	-\$1	-\$1	-\$1	\$0	\$1	-\$1	\$0	-\$1	-\$1	\$0
Thomas	CH	-\$2	-\$1	-\$1	\$0	\$0	\$0	-\$1	-\$1	\$0	-\$1
Mateo	TEX	-\$2	-\$1	-\$1	\$0	\$1	-\$1	-\$1	-\$1	-\$1	-\$1
Valdez	OAK	-\$1	-\$1	-\$1	\$0	\$1	-\$1	-\$1	-\$1	-\$1	-\$1
Magee	DET	-\$3	-\$1	\$0	-\$2	\$0	\$0	-\$1	\$0	-\$1	\$0
Lopez L.	TOR	-\$2	-\$1	-\$1	\$0	\$0	\$0	-\$1	-\$1	-\$1	-\$1
Cruz	CLE	-\$2	-\$1	-\$1	-\$1	\$0	\$0	-\$1	-\$1	-\$1	-\$1
Cardona	DET	\$1	-\$1	-\$1	\$0	\$0	-\$1	-\$1	-\$1	-\$1	-\$1
Perez	KC	-\$2	-\$1	-\$1	-\$1	\$0	-\$1	-\$1	-\$1	-\$1	-\$1
Molina J.	ANA	\$1	-\$1	-\$2	\$0	\$0	-\$1	-\$1	-\$1	-\$1	-\$1
Wakeland	DET	-\$1	-\$1	-\$2	\$0	\$0	-\$1	-\$1	-\$1	-\$1	-\$1
Kingsale	SEA	-\$1	-\$1	-\$2	\$0	\$0	-\$1	-\$1	-\$2	-\$1	-\$1
DaVanon	ANA	-\$3	-\$1	-\$1	-\$1	\$0	\$0	-\$1	-\$1	-\$1	-\$1
Patterson J.	DET	-\$1	-\$1	-\$2	\$0	\$0	-\$1	-\$1	-\$2	-\$1	-\$1
Berger	KC	-\$1	-\$1	-\$2	\$0	\$0	-\$1	-\$1	-\$2	-\$1	-\$1
Porter	TEX	-\$2	-\$1	-\$1	-\$1	\$0	-\$1	-\$1	-\$1	-\$1	-\$1
Monroe	TEX	-\$2	-\$1	-\$1	-\$1	\$0	-\$1	-\$1	-\$1	-\$1	-\$1
Gil	BAL	\$1	-\$1	-\$2	\$0	\$0	-\$1	-\$1	-\$1	-\$1	-\$1
Freel	TOR	-\$1	-\$1	-\$2	\$0	\$0	-\$1	-\$1	-\$2	-\$1	-\$1
Jackson	DET	-\$3	-\$1	-\$1	-\$2	\$0	-\$1	-\$1	-\$1	-\$1	-\$1
Almonte	NYY	-\$1	-\$1	-\$2	\$0	\$0	-\$1	-\$1	-\$2	-\$1	-\$1
Wilson	NYY	-\$1	-\$1	-\$2	\$0	\$0	-\$1	-\$1	-\$2	-\$1	-\$1

BATTERS	TM	REP	SGP	BA		HR		RBI		SB	SB
				+	-	+	-	+	-		
Raines Sr.	BAL	-\$1	-\$1	-\$2	\$0	\$0	-\$1	-\$1	-\$2	-\$1	-\$2
McMillon	OAK	-\$3	-\$1	-\$1	-\$1	\$0	-\$1	-\$2	-\$1	-\$1	-\$1
Bellinger	NYY	-\$3	-\$1	-\$1	-\$2	\$0	\$0	-\$1	-\$1	-\$1	-\$1
Nieves	ANA	-\$2	-\$1	-\$2	-\$1	\$0	-\$1	-\$1	-\$2	-\$1	-\$2
Lunar	BAL	-\$3	-\$1	-\$2	-\$1	\$0	-\$2	-\$2	-\$1	-\$1	-\$2
Wilson	OAK	-\$2	-\$2	-\$2	-\$1	\$0	-\$1	-\$1	-\$2	-\$1	-\$2
Buhner	SEA	-\$2	-\$2	-\$2	-\$1	\$0	-\$1	-\$1	-\$2	-\$1	-\$2
Alcantara	BOS	-\$2	-\$2	-\$2	\$0	\$0	-\$2	-\$1	-\$2	-\$1	-\$2
Ortiz	KC	-\$2	-\$2	-\$2	-\$1	\$0	-\$2	-\$2	-\$1	-\$1	-\$2
Maxwell	MIN	-\$3	-\$2	-\$2	-\$2	\$0	-\$1	-\$2	-\$1	-\$2	-\$1
Fabregas	ANA	-\$3	-\$2	-\$2	-\$2	\$0	-\$1	-\$2	-\$1	-\$1	-\$2
Hubbard	TEX	-\$2	-\$2	-\$2	\$0	\$0	-\$2	-\$1	-\$2	-\$1	-\$2
Coleman	NYY	-\$2	-\$2	-\$2	-\$1	\$0	-\$2	-\$2	-\$2	-\$1	-\$2
Roberts	CLE	-\$2	-\$2	-\$2	\$0	\$0	-\$2	-\$1	-\$2	-\$1	-\$2
Raines Jr.	BAL	-\$2	-\$2	-\$2	-\$1	\$0	-\$2	-\$1	-\$2	-\$2	-\$1
Oliver	BOS	\$0	-\$2	-\$2	-\$1	\$0	-\$2	-\$2	-\$2	-\$1	-\$2
Borders	SEA	\$0	-\$2	-\$2	\$0	\$0	-\$2	-\$1	-\$2	-\$2	-\$2
Crede	CH	-\$2	-\$2	-\$2	-\$1	\$0	-\$2	-\$2	-\$2	-\$2	-\$2
Rivera	DET	-\$2	-\$2	-\$3	\$0	\$0	-\$2	-\$2	-\$2	-\$2	-\$2
Mohr	MIN	-\$2	-\$2	-\$2	-\$1	\$0	-\$2	-\$2	-\$2	-\$2	-\$2
Lofton	BOS	-\$2	-\$2	-\$2	-\$1	\$0	-\$2	-\$2	-\$2	-\$2	-\$2
Castilla	TB	-\$3	-\$2	-\$2	-\$2	-\$1	-\$1	-\$2	-\$2	-\$2	-\$2
Cuddyer	MIN	-\$2	-\$2	-\$2	-\$1	\$0	-\$2	-\$2	-\$2	-\$2	-\$2
Sheldon	TEX	-\$4	-\$2	-\$2	-\$3	-\$1	-\$1	-\$2	-\$2	-\$2	-\$2
Jennings	OAK	-\$2	-\$2	-\$3	-\$1	\$0	-\$2	-\$2	-\$2	-\$2	-\$2
Hinch	KC	-\$5	-\$2	-\$1	-\$4	-\$1	-\$1	-\$2	-\$1	-\$2	-\$2
Harvey	KC	-\$2	-\$2	-\$3	-\$1	\$0	-\$2	-\$2	-\$2	-\$2	-\$2
Ordaz	KC	-\$2	-\$2	-\$3	-\$1	\$0	-\$2	-\$2	-\$2	-\$2	-\$2
Podsednik	SEA	-\$2	-\$2	-\$3	-\$1	\$0	-\$2	-\$2	-\$2	-\$2	-\$2
Bradley	CLE	-\$2	-\$2	-\$3	-\$1	\$0	-\$2	-\$2	-\$3	-\$2	-\$2
Johnson	NYY	-\$3	-\$2	-\$2	-\$2	-\$1	-\$2	-\$2	-\$2	-\$2	-\$2
McDonald	NYY	-\$2	-\$2	-\$3	-\$1	-\$1	-\$2	-\$2	-\$3	-\$2	-\$2
Laker	CLE	-\$3	-\$2	-\$2	-\$1	-\$1	-\$2	-\$2	-\$2	-\$2	-\$2
Vazquez	SEA	-\$3	-\$2	-\$3	-\$1	-\$1	-\$2	-\$2	-\$2	-\$2	-\$2
Perez	NYY	-\$2	-\$2	-\$3	-\$1	-\$1	-\$2	-\$2	-\$3	-\$2	-\$2
Bragg	NYY	-\$2	-\$2	-\$3	-\$1	-\$1	-\$2	-\$2	-\$3	-\$2	-\$2
Christensen	CH	-\$2	-\$2	-\$3	-\$1	-\$1	-\$2	-\$2	-\$3	-\$2	-\$2
Hoover	TB	-\$2	-\$2	-\$3	-\$1	-\$1	-\$2	-\$2	-\$3	-\$2	-\$2
Gipson	SEA	-\$3	-\$2	-\$2	-\$2	-\$1	-\$2	-\$2	-\$2	-\$2	-\$2
Burkhart	BOS	-\$3	-\$2	-\$3	-\$2	-\$1	-\$2	-\$2	-\$2	-\$2	-\$2
Hubbard	KC	-\$2	-\$2	-\$3	-\$1	-\$1	-\$2	-\$2	-\$3	-\$2	-\$2
Abad	OAK	-\$2	-\$2	-\$3	-\$1	-\$1	-\$2	-\$2	-\$3	-\$2	-\$2
Seabol	NYY	-\$2	-\$2	-\$3	-\$1	-\$1	-\$2	-\$2	-\$3	-\$2	-\$2
Burke	ANA	-\$2	-\$2	-\$3	-\$1	-\$1	-\$2	-\$2	-\$3	-\$2	-\$2
Hollins	CLE	-\$2	-\$2	-\$3	-\$1	-\$1	-\$2	-\$2	-\$3	-\$2	-\$2
Sandberg	TB	-\$4	-\$2	-\$2	-\$3	-\$1	-\$2	-\$3	-\$2	-\$2	-\$2
Greene	NYY	-\$4	-\$2	-\$2	-\$2	-\$1	-\$2	-\$2	-\$2	-\$2	-\$2
Woodward	TOR	-\$3	-\$2	-\$2	-\$2	-\$1	-\$2	-\$2	-\$2	-\$2	-\$2
Dransfeldt	TEX	-\$3	-\$2	-\$3	-\$1	-\$1	-\$2	-\$2	-\$3	-\$2	-\$2
Sanders	SEA	-\$3	-\$2	-\$3	-\$1	-\$1	-\$2	-\$2	-\$3	-\$2	-\$3
Santangelo	OAK	-\$3	-\$2	-\$3	-\$2	-\$1	-\$2	-\$2	-\$2	-\$2	-\$2
Valentin	BOS	-\$3	-\$2	-\$3	-\$2	-\$1	-\$2	-\$2	-\$2	-\$2	-\$3
Christenson	OAK	-\$3	-\$2	-\$3	-\$1	-\$1	-\$2	-\$2	-\$3	-\$2	-\$3
Estalella	NYY	-\$3	-\$2	-\$3	-\$1	-\$1	-\$2	-\$2	-\$3	-\$2	-\$3
Rivera J.	NYY	-\$3	-\$2	-\$3	-\$1	-\$1	-\$2	-\$2	-\$3	-\$2	-\$3
Phelps	TOR	-\$3	-\$3	-\$3	-\$2	-\$1	-\$3	-\$2	-\$3	-\$3	-\$2
DiFelice	TB	-\$5	-\$3	-\$2	-\$3	-\$1	-\$2	-\$3	-\$2	-\$3	-\$2

BATTERS	TM	REP	SGP	RBI									
				BA +	BA -	HR +	HR -	+	RBI -	SB +	SB -		
Ryan	OAK	-\$3	-\$3	-\$3	-\$2	-\$1	-\$3	-\$2	-\$3	-\$2	-\$3		
Santos	BOS	-\$3	-\$3	-\$3	-\$2	-\$1	-\$3	-\$3	-\$3	-\$3	-\$2	-\$3	
Ortiz	OAK	-\$4	-\$3	-\$3	-\$2	-\$1	-\$3	-\$3	-\$3	-\$3	-\$3	-\$2	
McCracken	MIN	-\$3	-\$3	-\$3	-\$2	-\$1	-\$3	-\$3	-\$3	-\$3	-\$3	-\$3	
Jensen	TEX	-\$3	-\$3	-\$3	-\$2	-\$1	-\$3	-\$3	-\$3	-\$3	-\$3	-\$3	
Sheets	TB	-\$5	-\$3	-\$2	-\$4	-\$1	-\$2	-\$3	-\$2	-\$3	-\$3	-\$2	
Rodriguez	NYN	-\$3	-\$3	-\$3	-\$2	-\$1	-\$3	-\$3	-\$3	-\$3	-\$3	-\$3	
Fordyce	BAL	-\$7	-\$3	-\$2	-\$5	-\$2	-\$1	-\$3	-\$2	-\$3	-\$3	-\$3	
Magruder	TEX	-\$3	-\$3	-\$3	-\$2	-\$1	-\$3	-\$3	-\$3	-\$3	-\$3	-\$3	
Lewis	CLE	-\$3	-\$3	-\$3	-\$2	-\$1	-\$3	-\$3	-\$3	-\$3	-\$3	-\$3	
Brumbaugh	TEX	-\$3	-\$3	-\$3	-\$2	-\$1	-\$3	-\$3	-\$3	-\$3	-\$3	-\$3	
Smith	TB	-\$4	-\$3	-\$3	-\$2	-\$1	-\$3	-\$3	-\$3	-\$3	-\$3	-\$3	
Chavez	KC	-\$4	-\$3	-\$3	-\$3	-\$1	-\$3	-\$3	-\$3	-\$3	-\$3	-\$3	
Simmons	TOR	-\$5	-\$3	-\$3	-\$4	-\$2	-\$2	-\$3	-\$3	-\$3	-\$3	-\$3	
Piatt	OAK	-\$4	-\$3	-\$3	-\$3	-\$1	-\$3	-\$3	-\$3	-\$3	-\$3	-\$3	
Delgado	KC	-\$4	-\$3	-\$3	-\$2	-\$2	-\$3	-\$3	-\$3	-\$3	-\$3	-\$3	
Harris	BAL	-\$5	-\$3	-\$3	-\$2	-\$2	-\$3	-\$3	-\$3	-\$3	-\$3	-\$3	
Sojo	NYN	-\$5	-\$3	-\$3	-\$4	-\$2	-\$3	-\$3	-\$3	-\$3	-\$3	-\$3	
McDonald	CLE	-\$4	-\$3	-\$4	-\$3	-\$2	-\$3	-\$3	-\$3	-\$3	-\$3	-\$3	
Ramirez	CW	-\$5	-\$3	-\$3	-\$3	-\$2	-\$3	-\$3	-\$3	-\$3	-\$3	-\$3	
Munson	DET	-\$5	-\$3	-\$3	-\$4	-\$2	-\$3	-\$3	-\$3	-\$3	-\$3	-\$3	
Barnes	MIN	-\$4	-\$3	-\$4	-\$3	-\$2	-\$3	-\$3	-\$4	-\$3	-\$3	-\$3	
Fernandez	ANA	-\$4	-\$3	-\$4	-\$3	-\$2	-\$3	-\$3	-\$4	-\$3	-\$3	-\$3	
Barnes	ANA	-\$5	-\$3	-\$4	-\$4	-\$2	-\$3	-\$4	-\$3	-\$3	-\$3	-\$3	
Fasano	KC	-\$4	-\$3	-\$4	-\$3	-\$2	-\$3	-\$3	-\$4	-\$3	-\$3	-\$3	
Castillo	TOR	-\$5	-\$4	-\$3	-\$4	-\$2	-\$3	-\$4	-\$3	-\$4	-\$4	-\$3	
Jaha	OAK	-\$5	-\$4	-\$4	-\$4	-\$2	-\$3	-\$4	-\$3	-\$3	-\$3	-\$4	
Hill	ANA	-\$6	-\$4	-\$4	-\$4	-\$3	-\$3	-\$4	-\$4	-\$4	-\$4	-\$4	
Bellhorn	OAK	-\$6	-\$4	-\$4	-\$5	-\$3	-\$3	-\$4	-\$4	-\$4	-\$4	-\$4	
Grebeck	BOS	-\$6	-\$4	-\$4	-\$5	-\$3	-\$4	-\$5	-\$4	-\$4	-\$4	-\$4	
Sadler	KC	-\$7	-\$4	-\$4	-\$6	-\$3	-\$4	-\$5	-\$4	-\$5	-\$5	-\$3	
Baines	CW	-\$7	-\$5	-\$4	-\$6	-\$3	-\$4	-\$5	-\$4	-\$5	-\$5	-\$4	
Inge	DET	-\$8	-\$5	-\$4	-\$7	-\$3	-\$4	-\$5	-\$3	-\$5	-\$5	-\$4	

PITCHERS	TM	REP	SGP	ERA								WHIP WHIP			
				W+	W -	+	ERA -	SV +	SV -	+	-	SO +	SO -		
Johnson	ARI	\$40	\$38	\$37	\$38	\$37	\$38	\$39	\$34	\$38	\$36	\$37	\$37		
Schilling	ARI	\$33	\$29	\$29	\$31	\$29	\$30	\$30	\$27	\$30	\$27	\$29	\$29		
Park	LA	\$21	\$23	\$23	\$23	\$23	\$23	\$24	\$21	\$22	\$24	\$23	\$23		
Vazquez	MON	\$23	\$21	\$21	\$22	\$21	\$21	\$22	\$19	\$21	\$21	\$21	\$21		
Morris	STL	\$22	\$21	\$20	\$24	\$21	\$22	\$22	\$19	\$22	\$19	\$21	\$21		
Ortiz	SF	\$18	\$21	\$20	\$22	\$20	\$21	\$21	\$19	\$20	\$21	\$21	\$21		
Maddux	ATL	\$25	\$20	\$20	\$22	\$20	\$22	\$21	\$18	\$21	\$20	\$21	\$21		
Wood	CHC	\$16	\$20	\$20	\$20	\$20	\$20	\$21	\$18	\$20	\$21	\$20	\$20		
Burkett	ATL	\$20	\$20	\$20	\$20	\$19	\$21	\$21	\$18	\$20	\$21	\$20	\$20		
Miller	HOU	\$18	\$20	\$20	\$21	\$20	\$20	\$21	\$18	\$20	\$20	\$20	\$20		
Kile	STL	\$19	\$19	\$18	\$20	\$18	\$20	\$20	\$17	\$19	\$18	\$19	\$19		
Lieber	CHC	\$19	\$18	\$17	\$21	\$18	\$17	\$18	\$16	\$18	\$17	\$18	\$18		
Person	PHI	\$13	\$17	\$17	\$18	\$18	\$16	\$18	\$15	\$17	\$18	\$17	\$17		
Appier	NYM	\$16	\$16	\$17	\$16	\$16	\$17	\$17	\$15	\$16	\$17	\$16	\$16		
Nen	SF	\$24	\$16	\$17	\$13	\$16	\$16	\$13	\$24	\$17	\$14	\$17	\$17		
Oswalt	HOU	\$18	\$15	\$15	\$16	\$15	\$16	\$16	\$14	\$15	\$14	\$15	\$15		
Benitez	NYM	\$21	\$15	\$16	\$13	\$15	\$14	\$12	\$23	\$16	\$13	\$16	\$16		
Glavine	ATL	\$11	\$15	\$14	\$17	\$15	\$15	\$16	\$13	\$15	\$15	\$16	\$16		
Penny	FLA	\$14	\$15	\$15	\$14	\$14	\$15	\$15	\$13	\$14	\$16	\$14	\$14		
Kim	ARI	\$17	\$14	\$15	\$12	\$14	\$14	\$13	\$17	\$14	\$14	\$15	\$15		
Williams	STL	\$13	\$14	\$13	\$16	\$14	\$13	\$15	\$13	\$14	\$14	\$14	\$14		

PITCHERS	TM	REP	SGP	W+	W -	ERA				WHIP WHIP			
						+	ERA -	SV +	SV -	+	-	SO +	SO -
Leiter	NYM	\$15	\$14	\$14	\$14	\$13	\$15	\$14	\$12	\$14	\$14	\$14	\$14
Armas	MON	\$8	\$13	\$14	\$13	\$14	\$13	\$14	\$12	\$13	\$14	\$13	\$13
Bere	CHC	\$9	\$13	\$13	\$14	\$14	\$12	\$14	\$12	\$13	\$14	\$13	\$13
Wagner	HOU	\$20	\$13	\$14	\$10	\$12	\$13	\$10	\$19	\$13	\$11	\$13	\$13
Burnett	FLA	\$8	\$12	\$12	\$13	\$13	\$12	\$13	\$11	\$12	\$14	\$13	\$13
Wolf	PHI	\$11	\$12	\$12	\$12	\$12	\$12	\$13	\$11	\$12	\$13	\$12	\$12
Mesa	PHI	\$20	\$12	\$13	\$10	\$12	\$13	\$9	\$20	\$13	\$10	\$13	\$13
Dotel	HOU	\$12	\$12	\$12	\$11	\$11	\$13	\$12	\$11	\$12	\$12	\$12	\$12
Shaw	LA	\$20	\$12	\$13	\$10	\$12	\$11	\$9	\$20	\$13	\$10	\$13	\$13
Schmidt	SF	\$9	\$12	\$11	\$13	\$12	\$11	\$12	\$11	\$12	\$12	\$12	\$12
Hoffman	SD	\$19	\$12	\$13	\$9	\$12	\$11	\$9	\$20	\$13	\$10	\$13	\$13
Dempster	FLA	\$2	\$12	\$11	\$14	\$13	\$9	\$12	\$10	\$12	\$12	\$11	\$11
Brown	LA	\$12	\$11	\$11	\$11	\$11	\$13	\$12	\$10	\$11	\$11	\$12	\$12
Batista	ARI	\$10	\$11	\$11	\$12	\$11	\$12	\$12	\$10	\$11	\$12	\$12	\$12
Hermanson	STL	\$6	\$10	\$10	\$12	\$11	\$9	\$11	\$9	\$10	\$11	\$10	\$10
Trachsel	NYM	\$9	\$10	\$10	\$11	\$11	\$9	\$11	\$9	\$10	\$11	\$10	\$10
Rodriguez	SF	\$12	\$10	\$10	\$10	\$9	\$12	\$11	\$9	\$10	\$10	\$11	\$11
Adams	LA	\$7	\$10	\$9	\$11	\$10	\$9	\$10	\$9	\$10	\$9	\$9	\$9
Jarvis	SD	\$8	\$10	\$9	\$11	\$10	\$8	\$10	\$9	\$9	\$11	\$9	\$9
Ritchie	PIT	\$8	\$9	\$9	\$10	\$10	\$8	\$10	\$8	\$9	\$10	\$9	\$9
Reed	NYM	\$12	\$9	\$9	\$9	\$9	\$10	\$9	\$8	\$9	\$10	\$9	\$9
Estes	SF	\$5	\$9	\$9	\$9	\$9	\$9	\$9	\$8	\$8	\$9	\$9	\$9
Graves	CIN	\$15	\$9	\$9	\$8	\$9	\$8	\$6	\$14	\$9	\$7	\$10	\$10
Daal	PHI	\$6	\$8	\$8	\$10	\$9	\$7	\$9	\$7	\$8	\$8	\$8	\$8
Dessens	CIN	\$5	\$8	\$8	\$9	\$9	\$7	\$8	\$7	\$8	\$8	\$8	\$8
Wright	MIL	\$0	\$8	\$8	\$9	\$9	\$6	\$8	\$7	\$8	\$9	\$8	\$8
Reynolds	HOU	\$7	\$8	\$7	\$10	\$8	\$7	\$8	\$7	\$8	\$7	\$8	\$8
Rueter	SF	\$4	\$8	\$7	\$10	\$8	\$7	\$8	\$7	\$8	\$8	\$8	\$8
Tapani	CHC	\$6	\$8	\$7	\$8	\$8	\$7	\$8	\$7	\$8	\$7	\$7	\$7
Marquis	ATL	\$6	\$7	\$8	\$6	\$7	\$8	\$8	\$7	\$7	\$8	\$7	\$7
Williams	HOU	\$10	\$7	\$7	\$7	\$7	\$7	\$6	\$11	\$8	\$6	\$8	\$8
Kline	STL	\$10	\$7	\$8	\$5	\$6	\$9	\$7	\$8	\$7	\$7	\$8	\$8
Farnsworth	CHC	\$8	\$7	\$7	\$6	\$6	\$8	\$7	\$7	\$7	\$7	\$7	\$7
Gordon	CHC	\$12	\$7	\$8	\$5	\$7	\$7	\$5	\$12	\$7	\$6	\$7	\$7
Brower	CIN	\$4	\$7	\$7	\$7	\$7	\$7	\$7	\$6	\$7	\$8	\$7	\$7
Fox	D	\$8	\$7	\$7	\$6	\$6	\$8	\$7	\$6	\$7	\$7	\$7	\$7
Clement	FLA	\$0	\$7	\$7	\$7	\$8	\$5	\$7	\$6	\$7	\$7	\$6	\$6
Weathers	CHC	\$8	\$7	\$7	\$5	\$6	\$8	\$7	\$7	\$6	\$7	\$7	\$7
Gagne	LA	\$4	\$7	\$7	\$6	\$7	\$5	\$7	\$6	\$6	\$8	\$6	\$6
Eaton	SD	\$5	\$7	\$6	\$7	\$7	\$6	\$7	\$6	\$6	\$7	\$6	\$6
Alfonseca	FLA	\$12	\$7	\$7	\$5	\$6	\$7	\$5	\$12	\$7	\$5	\$7	\$7
Tavarez	CHC	\$2	\$6	\$6	\$7	\$7	\$6	\$7	\$6	\$6	\$7	\$6	\$6
Sullivan	CIN	\$6	\$6	\$6	\$6	\$6	\$7	\$7	\$5	\$6	\$6	\$6	\$6
Hernandez	SF	-\$2	\$6	\$5	\$8	\$7	\$3	\$6	\$5	\$6	\$6	\$5	\$5
Herges	LA	\$5	\$6	\$6	\$7	\$6	\$7	\$6	\$5	\$6	\$6	\$6	\$6
Astacio	HOU	\$2	\$6	\$6	\$6	\$7	\$4	\$6	\$5	\$6	\$6	\$5	\$5
Fassero	CHC	\$9	\$6	\$6	\$5	\$6	\$6	\$5	\$8	\$6	\$5	\$6	\$6
Strickland	MON	\$7	\$6	\$7	\$4	\$6	\$7	\$5	\$7	\$6	\$6	\$6	\$6
Chacon	COL	-\$1	\$6	\$6	\$5	\$7	\$4	\$6	\$5	\$5	\$7	\$5	\$5
Chen	NYM	\$2	\$6	\$6	\$6	\$6	\$4	\$6	\$5	\$6	\$6	\$5	\$5
Rusch	NYM	\$3	\$6	\$6	\$6	\$6	\$5	\$6	\$5	\$6	\$5	\$5	\$5
Hampton	COL	-\$2	\$6	\$4	\$8	\$7	\$3	\$6	\$5	\$6	\$5	\$5	\$5
Lawrence	SD	\$6	\$6	\$6	\$5	\$5	\$7	\$6	\$5	\$5	\$6	\$6	\$6
Haynes	MIL	\$0	\$5	\$5	\$6	\$6	\$4	\$6	\$5	\$5	\$6	\$5	\$5
Sheets	MIL	\$3	\$5	\$5	\$7	\$6	\$4	\$6	\$4	\$5	\$5	\$5	\$5
Van Poppel	CHC	\$5	\$5	\$6	\$4	\$5	\$7	\$5	\$4	\$5	\$5	\$5	\$5
Leskanic	MIL	\$8	\$5	\$6	\$3	\$5	\$5	\$4	\$8	\$5	\$5	\$5	\$5

PITCHERS	TM	REP	SGP	W+	W -	ERA				WHIP WHIP			
						+	ERA -	SV +	SV -	+	-	SO +	SO -
Quevedo	MIL	-\$1	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Cormier	PHI	\$1	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Riggan	NYM	\$0	\$0	\$0	-\$1	\$0	\$1	\$0	\$0	\$0	\$0	\$0	\$0
Gardner	SF	-\$2	\$0	\$0	\$0	\$0	-\$1	\$0	-\$1	-\$1	\$1	\$0	\$0
Nunez	SD	\$0	\$0	\$0	\$0	\$0	\$0	\$0	-\$1	\$0	\$0	-\$1	-\$1
Sauerbeck	PIT	-\$2	\$0	\$0	-\$1	\$0	-\$1	\$0	\$0	\$0	\$0	-\$1	-\$1
Cruz	CHC	\$1	\$0	\$0	-\$1	-\$1	\$1	\$0	-\$1	\$0	\$0	\$0	\$0
Mercado	CIN	-\$1	\$0	\$0	-\$1	-\$1	\$0	\$0	-\$1	\$0	-\$1	-\$1	-\$1
Telemaco	PHI	-\$2	\$0	-\$1	\$0	\$0	-\$1	\$0	-\$1	-\$1	\$0	-\$1	-\$1
Levrault	MIL	-\$6	-\$1	-\$1	\$0	\$1	-\$3	\$0	-\$1	-\$1	\$0	-\$1	-\$1
Fetters	PIT	\$0	-\$1	\$0	-\$1	\$0	-\$1	-\$1	\$1	\$0	-\$1	-\$1	-\$1
Christiansen	SF	\$1	-\$1	\$0	-\$1	-\$1	\$0	-\$1	\$0	-\$1	\$0	\$0	\$0
King	MIL	\$0	-\$1	\$0	-\$2	-\$1	\$0	-\$1	-\$1	-\$1	\$0	-\$1	-\$1
Gomes	SF	-\$1	-\$1	-\$1	\$0	\$0	-\$1	-\$1	-\$1	\$0	-\$1	-\$1	-\$1
Seanez	ATL	\$1	-\$1	\$0	-\$2	-\$1	\$1	-\$1	-\$1	-\$1	\$0	-\$1	-\$1
Davis	COL	-\$1	-\$1	\$0	-\$1	-\$1	\$0	-\$1	-\$1	-\$1	\$0	-\$1	-\$1
Swindell	ARI	\$1	-\$1	-\$1	-\$2	-\$1	-\$1	-\$1	-\$1	-\$1	-\$1	-\$1	-\$1
Myers	COL	-\$1	-\$1	-\$1	-\$2	-\$1	\$0	-\$1	-\$1	-\$1	-\$1	-\$1	-\$1
Riedling	CIN	\$1	-\$1	-\$1	-\$2	-\$2	\$0	-\$1	-\$1	-\$1	-\$1	-\$1	-\$1
Lincoln	PIT	\$1	-\$1	-\$1	-\$2	-\$2	\$0	-\$1	-\$1	-\$1	-\$1	-\$1	-\$1
Fikac	SD	\$2	-\$1	-\$1	-\$2	-\$2	\$0	-\$1	-\$1	-\$1	-\$1	-\$1	-\$1
Witt	ARI	-\$1	-\$1	-\$1	-\$1	-\$1	-\$1	-\$1	-\$1	-\$1	-\$1	-\$1	-\$1
Beckett	FLA	\$1	-\$1	-\$1	-\$2	-\$2	\$0	-\$1	-\$2	-\$1	-\$1	-\$1	-\$1
Arroyo	PIT	-\$3	-\$1	-\$1	-\$1	-\$1	-\$2	-\$1	-\$2	-\$1	-\$1	-\$1	-\$1
Sanchez	FLA	-\$2	-\$1	-\$1	-\$2	-\$1	-\$1	-\$1	-\$2	-\$2	-\$1	-\$2	-\$2
Anderson	ARI	-\$3	-\$1	-\$1	-\$1	-\$1	-\$2	-\$1	-\$2	-\$2	-\$1	-\$2	-\$2
Reyes	CIN	-\$3	-\$1	-\$1	-\$2	-\$1	-\$1	-\$1	-\$2	-\$2	-\$1	-\$2	-\$2
Olivares	PIT	-\$5	-\$2	-\$2	-\$1	\$0	-\$4	-\$2	-\$2	-\$2	-\$1	-\$2	-\$2
Santiago	PHI	\$0	-\$2	-\$1	-\$2	-\$2	\$0	-\$1	-\$2	-\$2	-\$1	-\$1	-\$1
Almanza	FLA	-\$2	-\$2	-\$1	-\$2	-\$2	-\$1	-\$1	-\$2	-\$2	-\$1	-\$2	-\$2
Duncan	CHC	-\$2	-\$2	-\$2	-\$2	-\$2	-\$1	-\$2	-\$2	-\$2	-\$2	-\$2	-\$2
Acevedo	FLA	-\$3	-\$2	-\$1	-\$2	-\$2	-\$1	-\$2	-\$2	-\$2	-\$2	-\$2	-\$2
Bones	FLA	-\$3	-\$2	-\$2	-\$2	-\$2	-\$2	-\$2	-\$2	-\$2	-\$2	-\$2	-\$2
Miceli	COL	-\$1	-\$2	-\$2	-\$3	-\$2	-\$2	-\$2	-\$2	-\$2	-\$2	-\$2	-\$2
Ellis	ARI	-\$4	-\$2	-\$2	-\$1	-\$1	-\$3	-\$2	-\$2	-\$2	-\$2	-\$2	-\$2
Lee	SD	-\$2	-\$2	-\$2	-\$3	-\$2	-\$1	-\$2	-\$2	-\$2	-\$2	-\$2	-\$2
Redding	HOU	-\$3	-\$2	-\$2	-\$2	-\$2	-\$2	-\$2	-\$2	-\$2	-\$2	-\$3	-\$3
Leiter	MIL	\$0	-\$2	-\$2	-\$3	-\$2	-\$1	-\$2	-\$2	-\$2	-\$2	-\$2	-\$2
Buddie	MIL	-\$1	-\$2	-\$2	-\$3	-\$2	-\$1	-\$2	-\$2	-\$2	-\$1	-\$2	-\$2
Suzuki	MIL	-\$6	-\$2	-\$2	-\$2	-\$2	-\$3	-\$2	-\$2	-\$3	-\$1	-\$3	-\$3
Jennings J.	COL	-\$2	-\$2	-\$2	-\$2	-\$2	-\$2	-\$2	-\$2	-\$2	-\$2	-\$2	-\$2
Reed	ATL	-\$1	-\$2	-\$2	-\$3	-\$3	-\$1	-\$2	-\$2	-\$2	-\$2	-\$2	-\$2
Politte	PHI	\$0	-\$2	-\$2	-\$3	-\$3	-\$1	-\$2	-\$2	-\$2	-\$2	-\$2	-\$2
Cook	PHI	-\$1	-\$2	-\$2	-\$3	-\$2	-\$2	-\$2	-\$2	-\$2	-\$2	-\$3	-\$3
Hackman	STL	-\$1	-\$2	-\$2	-\$3	-\$3	-\$2	-\$2	-\$2	-\$3	-\$2	-\$2	-\$2
Rigdon	MIL	-\$5	-\$2	-\$2	-\$3	-\$2	-\$3	-\$2	-\$3	-\$3	-\$2	-\$3	-\$3
Benes An.	STL	-\$9	-\$2	-\$3	-\$1	-\$1	-\$6	-\$2	-\$3	-\$3	-\$2	-\$3	-\$3
Zerbe	SF	-\$1	-\$2	-\$2	-\$3	-\$3	-\$1	-\$2	-\$3	-\$2	-\$2	-\$2	-\$2
Padilla	PHI	-\$1	-\$3	-\$2	-\$3	-\$3	-\$2	-\$2	-\$3	-\$2	-\$3	-\$3	-\$3
Sabel	ARI	-\$1	-\$3	-\$2	-\$3	-\$3	-\$2	-\$3	-\$3	-\$2	-\$2	-\$3	-\$3
Darensbourg	FLA	-\$1	-\$3	-\$2	-\$3	-\$3	-\$2	-\$3	-\$2	-\$3	-\$2	-\$3	-\$3
Brock	PHI	-\$2	-\$3	-\$3	-\$3	-\$3	-\$2	-\$3	-\$3	-\$3	-\$3	-\$3	-\$3
McKnight	PIT	-\$3	-\$3	-\$3	-\$3	-\$3	-\$3	-\$3	-\$3	-\$3	-\$3	-\$3	-\$3
Davey	SD	-\$2	-\$3	-\$3	-\$3	-\$3	-\$2	-\$3	-\$3	-\$3	-\$3	-\$3	-\$3
Hernandez	HOU	\$0	-\$3	-\$2	-\$4	-\$3	-\$1	-\$3	-\$3	-\$3	-\$3	-\$3	-\$3
Elarton	COL	-\$9	-\$3	-\$3	-\$3	-\$1	-\$7	-\$3	-\$3	-\$3	-\$1	-\$4	-\$4
Wohlers	CIN	-\$1	-\$3	-\$3	-\$3	-\$3	-\$2	-\$3	-\$3	-\$3	-\$3	-\$3	-\$3

PITCHERS	TM	REP	SGP	W+	W -	ERA				WHIP WHIP			
						+	ERA -	SV +	SV -	+	-	SO +	SO -
Brohawn	ARI	-\$3	-\$3	-\$3	-\$3	-\$3	-\$3	-\$3	-\$3	-\$3	-\$3	-\$3	-\$3
Mulholland	LA	-\$2	-\$3	-\$3	-\$4	-\$3	-\$3	-\$3	-\$3	-\$3	-\$3	-\$3	-\$3
Roberts	NYM	-\$1	-\$3	-\$3	-\$4	-\$3	-\$2	-\$3	-\$3	-\$3	-\$3	-\$3	-\$3
Mahay	CHC	-\$2	-\$3	-\$3	-\$4	-\$3	-\$2	-\$3	-\$3	-\$3	-\$3	-\$3	-\$3
Marte	PIT	-\$2	-\$3	-\$3	-\$4	-\$3	-\$3	-\$3	-\$3	-\$3	-\$3	-\$3	-\$3
Reyes	LA	-\$2	-\$3	-\$3	-\$4	-\$3	-\$2	-\$3	-\$3	-\$3	-\$3	-\$3	-\$3
Gonzalez	NYM	-\$3	-\$3	-\$3	-\$3	-\$3	-\$3	-\$3	-\$3	-\$3	-\$3	-\$3	-\$3
Jensen	SF	-\$3	-\$3	-\$3	-\$4	-\$3	-\$2	-\$3	-\$3	-\$3	-\$3	-\$3	-\$3
Boehringer	SF	-\$2	-\$3	-\$3	-\$4	-\$3	-\$2	-\$3	-\$3	-\$3	-\$3	-\$3	-\$3
Mota	MON	-\$3	-\$3	-\$3	-\$4	-\$3	-\$3	-\$3	-\$4	-\$4	-\$3	-\$4	-\$4
White	COL	-\$5	-\$4	-\$3	-\$4	-\$3	-\$4	-\$4	-\$4	-\$4	-\$3	-\$4	-\$4
Ohka	MON	-\$2	-\$4	-\$4	-\$4	-\$4	-\$3	-\$4	-\$4	-\$4	-\$4	-\$4	-\$4
Myers	SD	-\$3	-\$4	-\$4	-\$4	-\$4	-\$4	-\$4	-\$4	-\$4	-\$4	-\$4	-\$4
Olsen	FLA	-\$1	-\$4	-\$3	-\$5	-\$4	-\$2	-\$4	-\$4	-\$4	-\$4	-\$4	-\$4
Mattes	MON	-\$4	-\$4	-\$4	-\$4	-\$4	-\$4	-\$4	-\$4	-\$4	-\$4	-\$4	-\$4
Hitchcock	SD	-\$1	-\$4	-\$4	-\$4	-\$4	-\$3	-\$4	-\$4	-\$4	-\$4	-\$4	-\$4
Morgan	ARI	-\$3	-\$4	-\$4	-\$5	-\$4	-\$3	-\$4	-\$4	-\$4	-\$4	-\$4	-\$4
Nichting	COL	-\$2	-\$4	-\$4	-\$5	-\$4	-\$3	-\$4	-\$4	-\$4	-\$4	-\$4	-\$4
Walker	SD	-\$2	-\$4	-\$4	-\$5	-\$4	-\$3	-\$4	-\$4	-\$4	-\$4	-\$4	-\$4
Mathews	STL	-\$1	-\$4	-\$4	-\$5	-\$4	-\$3	-\$4	-\$4	-\$4	-\$4	-\$4	-\$4
Bottenfield	HOU	-\$4	-\$4	-\$4	-\$4	-\$4	-\$5	-\$4	-\$4	-\$4	-\$4	-\$4	-\$4
Bell	CIN	-\$4	-\$4	-\$4	-\$5	-\$4	-\$4	-\$4	-\$4	-\$4	-\$4	-\$4	-\$4
Oropesa	PHI	-\$3	-\$4	-\$4	-\$5	-\$4	-\$3	-\$4	-\$4	-\$4	-\$4	-\$4	-\$4
MacRae	CIN	-\$2	-\$4	-\$4	-\$5	-\$4	-\$3	-\$4	-\$4	-\$4	-\$4	-\$4	-\$4
James	STL	-\$4	-\$4	-\$4	-\$5	-\$4	-\$4	-\$4	-\$4	-\$4	-\$4	-\$4	-\$4
Silva	PIT	-\$3	-\$4	-\$4	-\$4	-\$4	-\$4	-\$4	-\$4	-\$4	-\$4	-\$4	-\$4
Middlebrook	SD	-\$3	-\$4	-\$4	-\$4	-\$4	-\$4	-\$4	-\$4	-\$4	-\$4	-\$4	-\$4
Blank	MON	-\$3	-\$4	-\$4	-\$5	-\$4	-\$4	-\$4	-\$4	-\$4	-\$4	-\$4	-\$4
Springer	LA	-\$2	-\$4	-\$4	-\$5	-\$5	-\$3	-\$4	-\$4	-\$4	-\$4	-\$4	-\$4
Wall	NYM	-\$4	-\$4	-\$4	-\$5	-\$5	-\$4	-\$4	-\$4	-\$4	-\$4	-\$5	-\$5
Jodie	SD	-\$3	-\$4	-\$4	-\$5	-\$5	-\$4	-\$4	-\$4	-\$5	-\$4	-\$4	-\$4
Vosberg	PHI	-\$2	-\$4	-\$4	-\$5	-\$5	-\$3	-\$4	-\$4	-\$4	-\$4	-\$4	-\$4
Serrano	SD	-\$5	-\$4	-\$4	-\$4	-\$4	-\$5	-\$4	-\$4	-\$4	-\$5	-\$5	-\$5
Eischen	MON	-\$4	-\$4	-\$4	-\$5	-\$5	-\$4	-\$4	-\$4	-\$5	-\$4	-\$5	-\$5
Rijo	CIN	-\$3	-\$5	-\$4	-\$5	-\$5	-\$3	-\$5	-\$5	-\$4	-\$5	-\$5	-\$5
Mantei	ARI	-\$2	-\$5	-\$4	-\$5	-\$5	-\$3	-\$5	-\$4	-\$4	-\$5	-\$5	-\$5
Orosco	LA	-\$3	-\$5	-\$4	-\$6	-\$5	-\$4	-\$5	-\$5	-\$5	-\$5	-\$5	-\$5
Linebrink	HOU	-\$2	-\$5	-\$4	-\$6	-\$5	-\$3	-\$5	-\$5	-\$5	-\$4	-\$5	-\$5
Nitkowski	NYM	-\$2	-\$5	-\$4	-\$5	-\$5	-\$3	-\$5	-\$5	-\$5	-\$5	-\$5	-\$5
Grilli	FLA	-\$3	-\$5	-\$5	-\$5	-\$5	-\$4	-\$5	-\$5	-\$5	-\$4	-\$5	-\$5
Moss	ATL	-\$3	-\$5	-\$4	-\$6	-\$5	-\$3	-\$5	-\$5	-\$5	-\$4	-\$5	-\$5
Ashby	LA	-\$2	-\$5	-\$5	-\$5	-\$5	-\$4	-\$5	-\$5	-\$4	-\$5	-\$5	-\$5
Cubillan	MON	-\$3	-\$5	-\$4	-\$6	-\$5	-\$4	-\$5	-\$5	-\$5	-\$5	-\$5	-\$5
D'Amico	MIL	-\$5	-\$5	-\$5	-\$5	-\$5	-\$5	-\$5	-\$5	-\$5	-\$5	-\$5	-\$5
McElroy	SD	-\$4	-\$5	-\$5	-\$5	-\$5	-\$4	-\$5	-\$5	-\$5	-\$5	-\$5	-\$5
Heredia	CHC	-\$4	-\$5	-\$5	-\$5	-\$5	-\$5	-\$5	-\$5	-\$5	-\$5	-\$5	-\$5
Koplove	ARI	-\$3	-\$5	-\$4	-\$6	-\$5	-\$4	-\$5	-\$5	-\$5	-\$5	-\$5	-\$5
Chiasson	CHC	-\$2	-\$5	-\$5	-\$5	-\$5	-\$4	-\$5	-\$5	-\$5	-\$5	-\$5	-\$5
Ankiel	STL	-\$5	-\$5	-\$5	-\$5	-\$5	-\$5	-\$5	-\$5	-\$5	-\$5	-\$5	-\$5
Cunnane	MIL	-\$5	-\$5	-\$5	-\$6	-\$5	-\$5	-\$5	-\$5	-\$5	-\$5	-\$5	-\$5
Williams	LA	-\$4	-\$5	-\$5	-\$5	-\$5	-\$5	-\$5	-\$5	-\$5	-\$5	-\$5	-\$5
Benes Al.	STL	-\$4	-\$5	-\$5	-\$5	-\$5	-\$5	-\$5	-\$5	-\$5	-\$5	-\$5	-\$5
Strong	FLA	-\$2	-\$5	-\$5	-\$6	-\$5	-\$4	-\$5	-\$5	-\$5	-\$5	-\$5	-\$5
Aybar	CHC	-\$5	-\$5	-\$5	-\$5	-\$5	-\$5	-\$5	-\$5	-\$5	-\$5	-\$5	-\$5
Davenport	COL	-\$3	-\$5	-\$5	-\$6	-\$5	-\$4	-\$5	-\$5	-\$5	-\$5	-\$5	-\$5
Painter	MIL	-\$3	-\$5	-\$5	-\$6	-\$5	-\$4	-\$5	-\$5	-\$5	-\$5	-\$5	-\$5
Fernandez O.	CIN	-\$8	-\$5	-\$5	-\$4	-\$4	-\$7	-\$5	-\$5	-\$5	-\$5	-\$6	-\$6

PITCHERS	TM	REP	SGP	W+	W -	ERA			WHIP WHIP					
						+	ERA -	SV +	SV -	+	-	SO +	SO -	
Estrada	COL	-\$4	-\$6	-\$6	-\$7	-\$6	-\$6	-\$7	-\$6	-\$6	-\$6	-\$6	-\$7	-\$7
Whiteside	ATL	-\$5	-\$6	-\$6	-\$7	-\$7	-\$6	-\$7	-\$6	-\$6	-\$6	-\$6	-\$7	-\$7
Bonilla	STL	-\$4	-\$6	-\$6	-\$7	-\$7	-\$5	-\$7	-\$6	-\$6	-\$6	-\$6	-\$7	-\$7
Corey	NYM	-\$4	-\$7	-\$6	-\$7	-\$7	-\$6	-\$7	-\$6	-\$6	-\$6	-\$7	-\$7	-\$7
Maurer	SD	-\$5	-\$7	-\$6	-\$7	-\$7	-\$6	-\$7	-\$6	-\$6	-\$6	-\$7	-\$7	-\$7
Moore	ATL	-\$4	-\$7	-\$6	-\$7	-\$7	-\$6	-\$7	-\$6	-\$7	-\$7	-\$7	-\$7	-\$7
Peters	MON	-\$6	-\$7	-\$7	-\$7	-\$6	-\$7	-\$7	-\$6	-\$6	-\$6	-\$7	-\$7	-\$7
Rodriguez	HOU	-\$4	-\$7	-\$6	-\$7	-\$7	-\$6	-\$7	-\$6	-\$7	-\$7	-\$7	-\$7	-\$7
Martin	NYM	-\$6	-\$7	-\$7	-\$7	-\$6	-\$7	-\$7	-\$7	-\$7	-\$7	-\$7	-\$7	-\$7
Powell B.	HOU	-\$5	-\$7	-\$7	-\$7	-\$7	-\$6	-\$7	-\$7	-\$7	-\$7	-\$7	-\$7	-\$7
Lima	HOU	-\$7	-\$7	-\$7	-\$7	-\$6	-\$8	-\$7	-\$7	-\$7	-\$7	-\$7	-\$8	-\$8
Zambrano	CHC	-\$6	-\$7	-\$7	-\$7	-\$7	-\$7	-\$7	-\$7	-\$7	-\$7	-\$7	-\$7	-\$7
Dingman	COL	-\$5	-\$7	-\$7	-\$8	-\$7	-\$7	-\$7	-\$7	-\$7	-\$7	-\$7	-\$7	-\$7
Telford	MON	-\$5	-\$7	-\$7	-\$8	-\$7	-\$6	-\$7	-\$7	-\$7	-\$7	-\$7	-\$7	-\$7
Lira	MON	-\$5	-\$7	-\$7	-\$8	-\$7	-\$6	-\$7	-\$7	-\$7	-\$7	-\$7	-\$7	-\$7
Rodriguez	CIN	-\$6	-\$7	-\$7	-\$8	-\$7	-\$7	-\$7	-\$7	-\$7	-\$7	-\$7	-\$7	-\$7
Slusarski	HOU	-\$6	-\$7	-\$7	-\$8	-\$7	-\$7	-\$7	-\$7	-\$7	-\$7	-\$7	-\$7	-\$7
Borowski	CHC	-\$5	-\$7	-\$7	-\$8	-\$7	-\$7	-\$7	-\$7	-\$7	-\$7	-\$7	-\$7	-\$7
Kolb	MIL	-\$6	-\$7	-\$7	-\$8	-\$7	-\$7	-\$8	-\$7	-\$7	-\$7	-\$7	-\$8	-\$8
Reith	CIN	-\$8	-\$7	-\$7	-\$8	-\$7	-\$8	-\$8	-\$7	-\$7	-\$7	-\$7	-\$8	-\$8
Scanlan	MON	-\$7	-\$7	-\$7	-\$8	-\$7	-\$7	-\$8	-\$7	-\$7	-\$7	-\$7	-\$8	-\$8
Nelson	ATL	-\$6	-\$8	-\$7	-\$8	-\$8	-\$7	-\$8	-\$7	-\$7	-\$7	-\$7	-\$8	-\$8
Hinchliffe	NYM	-\$6	-\$8	-\$8	-\$8	-\$8	-\$7	-\$8	-\$7	-\$8	-\$8	-\$8	-\$8	-\$8
Hutchinson	STL	-\$6	-\$8	-\$8	-\$8	-\$8	-\$7	-\$8	-\$7	-\$8	-\$8	-\$8	-\$8	-\$8
Baez	FLA	-\$7	-\$8	-\$8	-\$8	-\$8	-\$8	-\$8	-\$8	-\$8	-\$8	-\$8	-\$8	-\$8
Embree	SF	-\$8	-\$8	-\$8	-\$8	-\$7	-\$8	-\$8	-\$8	-\$8	-\$8	-\$8	-\$9	-\$9
Loiselle	PIT	-\$8	-\$8	-\$8	-\$8	-\$8	-\$8	-\$8	-\$8	-\$7	-\$8	-\$8	-\$8	-\$8
Loewer	SD	-\$7	-\$8	-\$8	-\$9	-\$8	-\$8	-\$8	-\$8	-\$8	-\$8	-\$8	-\$9	-\$9
Wengert	PIT	-\$8	-\$9	-\$9	-\$9	-\$9	-\$9	-\$9	-\$9	-\$9	-\$9	-\$9	-\$10	-\$10

Analysis of the Study

It is apparent the uncertainty in the SGP calculation is not as flawed as has been implied thus far. Recalling values are actually ranges, the vast majority of players display a remarkably consistent set of values. If a single SGP is in error, and 50% is a significant error, the values are still within an acceptable range and therefore represent a player's value. Exceptions occur when a player's value is mainly reliant on a single category.

It must be kept in mind this study only altered a single SGP at a time. Based on data not shown: If one modifies different combinations of SGP, both in hitting and in pitching, the results are similar. That is, *the manner in which SGP are calculated does not introduce significant error.*

The Result

Opponents of the SGP best find another flaw than the inherent uncertainty in the SGP calculation. The vast majority of players show consistent values, even though the SGP were modified 50%.

SGP versus REP

For years, proponents of the SGP system claim REP overvalues contributions from stolen bases, batting average and saves. The above data seems to bear this out. Players with high stolen base totals are valued higher by REP. To a lesser extent, REP favors players with exceptional batting average contributions. Players with an exceptionally low batting average are valued higher via SGP. On the pitching side, REP values closers higher than SGP.

Many of those who feel REP overvalues stolen bases, batting average and saves have no problem with the manner HR, RBI, wins, ERA and WHIP are valued. This is illogical. The mechanism by which the former categories are valued is identical to the manner in which the latter values are generated. Each player gets credit for his contribution beyond replacement. If the system works for HR, it must work for SB. If it works for wins, it must work for saves.

Based on this, proponents of REP claim SGP undervalues batting average, stolen bases and saves. The REP system values them accurately.

A Common Flaw

Something that has not been considered with respect to either system is one does not begin to amass points until one has overcome a specific barrier, namely the statistics garnered by the last place team. One must buy this basal level of production. The manner in which each system values this production is different and will prove to be the undoing of SGP. In fact, it will be explained logically and demonstrated mathematically that REP is the more accurate method.

SGP and the Last Place Barrier

If an SGP denominator is 10 units and a player contributes 30 units, they earn 3 SGP. If the last place team has 199 units, then 19.9 SGP are needed before a single standing point is realized. Where do these barrier SGP come from? The cumulative SGP provide both the barrier SGP and the point-yielding SGP. Barrier SGP is defined as that necessary to reach the level of the last place team.

In theory, one pays for the SGP to gain a point in the standings, not to attain that basal level. Each category has a characteristic number of barrier SGP to account for, and this number differs greatly between categories. The following table shows the average total of the last place teams per counting category using the data employed to generate the SGP values presented earlier, the SGP category denominator and the barrier SGP:

	Average Last Place Total	SGP	barrier SGP
HR	133	10.2	13.0
RBI	611	33.04	18.5
SB	69	9.97	6.9
W	57	3.5	16.3
SV	10	6.5	1.5
SO	845	34.5	24.5

SGP normalize the production needed to gain a point. SGP does not normalize the production needed to begin to amass points. When one pays for SGP from a base stealer or closer, one is paying for points in SB and SV. Granted, the incorporation of specific category SGP denominators is supposed to be the great equalizer and therefore one may argue one is paying for generic points, but in practical terms, one is paying for specific points. But what is one truly buying? One is buying the barrier SGP along with the SGP needed to accrue points in each category. The logical flaw is the method sets values solely based on production needed to gain points and ignores the production needed to reach that of the last place team.

If this is the flaw, what is the correction? The correction is to factor out the barrier SGP so all that is being paid for is point-yielding SGP.

On the hitting side, the barrier SGP for SB is 6.9, HR is 13 and RBI is 18.5. The barrier SGP should be removed in

proportion to the total SGP in that category. Since there are twelve teams, this equals 82.8 SGP in SB, 156 in HR and 222 in RBI. The total SGP used in these calculations for SB was 153, HR was 229 and RBI was 288. Removing the barrier level leaves 70.2 SGP in SB, 73 in HR and 66 in RBI. It is no accident these numbers are almost identical.

The adjustment per category is

Point yielding SGP = player SGP - player SGP x (barrier SGP/total SGP)

The multiplication factor is .544 for SB, .681 for HR and .771 for RBI. Proportionately, SB loses less of their value. The end result is SB SGP make up a larger percentage of the total SGP pool, so value for SB contributors goes up. ***If the corrected value for SB contributors is higher, then it is fair to say SGP undervalues SB.***

On the pitching end, the total barrier SGP is 195.6 for wins, 18 for saves and 294 for SO. For comparison, the point-yielding SGP come out to 83.4 for wins, 68 for saves and 73 for SO. The multiplication factor here is .701 for wins, .209 for saves and .801 for SO. ***Here, saves lose less of their value leading to closers being undervalued.***

So in summary, an argument can be made that SGP undervalues stolen bases and closers. The key point is SGP buys points, not statistics and one cannot begin to accrue points until one has a level of production equal to the last place team. The distribution and relative percentage contribution of SB and SV to their respective pools undervalue their category dollar amounts.

REP and the Last Place Barrier

So what if the REP method is considered in this same manner? Recall the replacement adjustment accounts for replacement level players that are not on a roster. The correction above used the statistics of the last place team. Members of the draft-worthy pool are on the last place team so the REP method has not made the same correction. Or has it?

The REP method has two things going for it. First, one buys statistics, not standings points. Second, the system is designed to allot equal budget per category.

One can make an analogous argument with REP that one first needs to buy the statistics to overcome the last place team and one is right. However, in SGP, value is assigned via a percentage of the total SGP pool, while in REP, value is assigned within each category, each category is worth the same and the category totals are summed. Herein lies the difference. When one factors out the contribution of the last place team, proportionately each player contributes the same amount per category as before. This is because the stats needed to overcome the last place team are adjusted in proportion. All these proportions are the same, so the end result is the player contributes the same

percentage to the pool pre and post adjustment. Same percentage equals same value.

By means of example, using the same data used to generate the SGP values a player contributes 54 SB after replacement. The total pool is 1204. This is 4.485%.

The typical last place team has 69 steals, multiplied by 12 yields 882. So only 1204-882 or 322 SB have value.

The player adjustment is $54 - (54 \times (882/1204))$ or 14.44 SB. The percentage is $14.44/322$, or the same 4.485% as calculated above.

How about a closer? Again, using the same data used to generate the NL SGP pitching values, a closer contributes 38.5 saves after replacement. The pool has 528.5 saves, rendering 7.285%.

The typical last place team gets 10 saves, leading to 120 that need to be removed, 408.5 remain. The adjustment is $38.5 - 38.5 \times (120/528.5)$ or 29.76 saves. The percentage is $29.76/408.5$ or the same 7.285% as just determined.

The Conclusion

If the REP method is adjusted for contributions necessary to reach the level of the last place team, the values do not change. A logical and mathematical argument can be

presented that demonstrate SGP undervalues the categories of stolen bases and saves. ***The flaw is not the uncertainty of SGP calculation, but the omission of accounting for the so-called barrier SGP.***

The Aftermath

All this is well and good, but what does it mean in a practical sense? It was just shown REP assigns values more accurately than SGP. So why do so many successful fantasy players swear by SGP? Simple, the method offers values close enough so other factors can compensate for their inaccuracy. That is, ***SGP are right for the wrong reasons.***

Bid values are based on the dollar values generated by whatever method one chooses to employ. So many factors affect bid value. The manner which one handles these factors trumps the importance of a dead-on projected value. One is successful because one understands bidding dynamics and has a better grasp of market value. One is successful because one tracks inflation and knows when it is bargain-hunting season. One is successful because one has superior projections or a superior strategy.

But here is the catch. Say two players have equal ability in all these areas. They have the same projections. One uses SGP and the other REP. ***All else being equal, who wins? The player using REP does, every time. Every time!***