

The Flawless Pitcher's Cycle

Definition and Achievers (1893-2025)

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The “Flawless Pitcher’s Cycle” was introduced as a special type (subset) of the “Pitcher’s Cycle” in a presentation given during the SABR Baseball Records Committee meeting at the 2024 Annual Convention of the Society for American Baseball Research (SABR-54).[1] The pertinent definitions are given here:

Pitcher’s Cycle — “The series of at least one player from each of the nine repeating batting slots (not necessarily in order) struck out by one pitcher in the same game.”[2]

Flawless Pitcher’s Cycle — A Pitcher’s Cycle in which the hurler (a) did *not* allow a home run; (b) did *not* issue a base on balls; and (c) did *not* hit an opposing batter with a pitched ball.

The Pitcher’s Cycle was created in 2024 to fill a serious void in the list of achievers of one of baseball’s highly-regarded feats — players who hit for the cycle, i.e., batters who collected at least one single, one double, one triple, and one homer in the same game.[2-7] At that time (i.e., through the 2023 season) there had been 351 documented regular-season cycles in the history of major league baseball (1876-2023). The distribution of the starting positions of the players who achieved these cycles was the following: Outfielders, 160 [LF (53), CF (54), RF (53)]; Infielders, 166 [1B (52), 2B (39), 3B (37), SS (38)]; Catchers, 17; Pitchers, ZERO; Designated Hitters, 8. With no pitcher having ever achieved the feat of hitting for the cycle, the feat is limited to non-pitchers and the classic cycle has become a de facto Batter’s Cycle.[8] According to my research (covering the National, American, and Federal Leagues for the 1893-2023 timeframe), there were 316 Batter’s Cycles and 483 Pitcher’s Cycles.[9] Despite the difference of 167, the two sums are in the same ballpark and have the same order of magnitude. It is important to point out that, beginning with the 1890s decade, the number of Batter’s Cycles in each decade was greater than the corresponding number of Pitcher’s Cycles for nearly every decade through the 1940s decade. But, since the 1950s decade, the number of Pitcher’s Cycles has been greater than the corresponding number of Batter’s Cycles. Consequently, during the 1980s decade the total number of Pitcher’s Cycles surpassed the total number of Batter’s Cycles. In the first quarter of the 21st century, with pitchers focused on striking out batters (emphasizing spin rate and velocity) and batters striving to hit home runs (emphasizing launch angle and exit velocity), the frequency of Pitcher’s Cycles has skyrocketed compared to the rate of Batter’s Cycles, resulting in the 167 delta.

In order to better understand and appreciate a large number of items (e.g., the list of players who accomplished the Batter’s Cycles), it can be advantageous to organize the items (Batter’s Cycles) into special types (subsets), such as RBI-Cycles and Run-Cycles.[10-12] The “Flawless Pitcher’s Cycle” is a special type (subset) of the Pitcher’s Cycle.

The foundation for the creation of the Flawless Pitcher’s Cycle is the concept of baseball’s “Three True Outcomes” — a relatively modern idea for analyzing and evaluating a baseball player’s performance, particularly for pitchers.[13] Here’s the description of Three True Outcomes given in the *Dickson Baseball Dictionary*:

“Walks, strikeouts, and home runs. Recent statistical analysis has attached particular significance to these three categories in measuring a pitcher's ability, since on all other plays it becomes problematic to determine whether pitching or fielding is responsible for the result.”[14]

For pitchers, the best — most desirable — True Outcome is striking out the opposing batter; the worst — least desirable — True Outcome is yielding a home run to the opposing batter. Also not desirable for a pitcher is giving the opposing batter a free pass to first base by walking him (or by hitting him with a pitched ball).[15] Thus, yielding a home run was deemed to be a flaw in the pitcher's performance. Likewise, walking a batter is a flaw (as is hitting a batter with a pitched ball). So, in simplest terms, a pitcher can achieve a flawless inning by striking out the side without surrendering a home run or issuing a base on balls (or hitting a batter with a pitched ball). This reasoning is readily extended to the Pitcher's Cycle, affording the definition given above for the Flawless Pitcher's Cycle.

OBJECTIVE

Identify the pitchers who accomplished a Flawless Pitcher's Cycle.

RESEARCH PROCEDURE

Utilizing the chronological list of Pitcher's Cycles determined in my prior research, I searched the corresponding Retrosheet box scores (using the Stathead search engine on the Baseball Reference website) to identify the players who achieved a Flawless Pitcher's Cycle during the 1901-2025 period. NOTE: Since, according to my original research on Pitcher's Cycles, the first PC was accomplished in 1901, there could be no Flawless Pitcher's Cycles during the 1893-1900 timeframe.

RESULTS

Table 1 presents the list of the first 16 Flawless Pitcher's Cycles. As can be seen, Walter Johnson of the Washington Senators got the first one — on August 28, 1913, a dozen years after Noodles Hahn accomplished the first-ever Pitcher's Cycle on May 22, 1901.[16] Against the host Boston Red Sox, The Big Train hurled 10.2 innings of flawless ball; but he ended up losing the game, 1-0, in eleven innings, the solitary run being unearned. Bill James of the Boston Braves earned the second Flawless Pitcher's Cycle the next season, tossing a complete game and winning by a 3-2 score over the visiting Cincinnati Reds.

More than 20 years passed before the next Flawless-PC was achieved — on September 29, 1935, in the first game of a double header between the host Brooklyn Dodgers against the visiting Philadelphia Phillies. Van Mungo achieved the Flawless-PC feat in a 2-0 triumph. Nine more years passed before Hal Newhouser of the Detroit Tigers picked up the next Flawless Pitcher's Cycle, a 4-0 shutout of the Philadelphia Athletics. Again, more than 20 years passed before another Flawless-PC was recorded — on May 22, 1964. Juan Pizarro of the Chicago White achieved the feat, vanquishing the visiting Washington Senators, 3-1. Then, after more than 60 years of infrequent and widely-scattered Flawless Pitcher's cycles, three more were fabricated in the next four years. Sandy Koufax of the Los Angeles Dodgers earned two, both in 1965, and Luis Tiant picked up one in 1968. However, during the next 25 years only two more Flawless-PCs were assembled — by Frank Tanana of the Angels (on June 21, 1975) and by J.R. Richard of the Astros (on June 6, 1980).

Table 1. The Hurlers Who Achieved the First Sixteen Flawless Pitchers Cycles (since 1893).

Player (Team)	Game	OPP	S.O.	IP
Walter Johnson (WAS)	8-22-1913	BOS*	10	* 10.2 *
Bill James (BSN*)	9-23-1914 (1)	CIN	9	* 9.0 *
Van Mungo (BRK*)	9-29-1935 (1)	PHP	15	* 9.0 *
Hal Newhouser (DET*)	9-27-1944	PHA	10	* 9.0 *
Juan Pizarro (CWS*)	5-22-1964	WAS	13	* 9.0 *
Sandy Koufax (LAD*)	8-14-1965	PIT	12	* 10.0 *
Sandy Koufax (LAD*)	9-09-1965	CHC	14	* 9.0 *
Luis Tiant (CLE*)	7-03-1968	MIN	19	* 10 *
Frank Tanana (CAL*)	6-21-1975 (1)	MIL	17	* 9.0 *
J.R. Richard (HOU*)	6-06-1980	SFG	13	* 9.0 *
Jeff Fassero (MON)	8-30-1993	COL*	10	7.2
Bobby Witt (OAK)	6-23-1994	KCR*	14	* 9,0 *
Randy Johnson (SEA)	8-11-1995	KCR*	11	7.0
Roger Clemens (BOS)	9-18-1996	DET*	20	* 9.0 *
Greg Maddox (ATL*)	6-27-1998	TOR	13	* 9.0 *
Roger Clemens (TOR*)	8-25-1998	KCR	18	* 9.0 *

So, through the 1992 campaign, 100 seasons after the current 60-feet-6-inches distance between the pitcher's slab and home plate was initiated for the 1893 campaign, only 10 Flawless Pitcher's Cycles had been realized (out of the 183 Pitcher's Cycles that were accomplished during the 1893-1992 period). Things changed fairly dramatically during the last years of the final decade of the 20th century (with six Flawless-PCs having been accomplished). And, the higher rate for achieving Flawless-PCs has continued throughout the first quarter of the 21st century.

For the remainder of this article, rather than go through each Flawless-PC individually and chronologically, they are presented on a team-by-team basis, providing information for the first one and for the most recent one. Tables 2a and 2b provide the info. The Appendix provides a complete list (in chronological order) of all the Flawless Pitcher's Cycle ascertained according to my research.

Table 2a. Pitchers Who Achieved the First and the Most Recent Flawless PCs for Each Team.

Team [PCs] (Flawless-PCs)	Player	Year	S.O.	IP
Angels [22] (1)	Frank Tanana	1975	17	* 9.0 *
Astros [21] (3)	J.R. Richard Gerrit Cole	1980 2019	13 14	* 9.0 * 7.0
Athletics [8] (1)	Bobby Witt	1984	14	* 9.0 *
Blue Jays [13] (1)	Roger Clemens	1998	18	* 9.0 *
Braves [18] (3)	Bill James John Burkett	1914 2001	9 11	* 9.0 * 7.1
Brewers [10] (1)	Corbin Burnes	2021	15	8.0
Cardinals [15] (0)				
Cubs [19] (1)	Matt Garza	2011	12	7.0
Diamondbacks [19] (4)	Randy Johnson Zac Gallen	2021 2023	20 12	9.0 5.1
Dodgers [23] (6)	Van Mungo Max Scherzer	1935 2021	15 13	* 9.0 * 8.0
Giants [18] (0)				
Guardians [33] (2)	Luis Tiant Triston McKenzie	1968 2022	19 14	* 9.0 * 7.0
Mariners 19] (2)	Randy Johnson Bryce Miller	1995 2024	11 9	7.0 7.0
Marlins [11] (1)	Jose Fernandez	2013	13	8.0
Mets [24] (1)	Jacob deGrom	2021	15	* 9.0 *
Nationals [20] (6)	Jeff Fassero Mackenzie Gore	1993 2025	10 13	7.2 6.0
Orioles [14] (1)	Mike Mussina	2000	15	7.0
Padres 14] (0)				
Phillies [25] (2)	Vince Velasquez Aaron Nola	2016 2018	16 12	* 9.0 * 7.0
Pirates [7] (0)				
Rangers [13] (1)	Derek Holland	2015	11	9.0
Rays [7] (1)	Scott Kazmir	2008	13	8.0
Reds [17] (0)				
Red Sox [32] (5)	Roger Clemens Nathan Eovaldi	1996 2021	20 10	* 9.0 * 6.1

Table 2b. Pitchers Who Achieved the First and the Most Recent Flawless PCs for Each Team.

Team [PCs] (Flawless-PCs)	Player	Year	S.O.	IP
Rockies [2] (1)	John Thomson	2001	12	7.0
Royals [3] (0)				
Tigers [24] (2)	Hal Newhouser	1944	10	* 9.0 *
	Tarik Skubal	2024	13	7.0
Twins [21] (2)	Walter Johnson	1913	10	* 10.2 *
	Johan Santana	2007	17	8.0
White Sox [16] (3)	Juan Pizarro	1964	13	* 9.0 *
	Lance Lynn	2021	11	* 9.0 *
Yankees [13] (2)	Masahiro Tanaka	2017	15	7.0
	Masahiro Tanaka	2018	10	8.0

Inspection of Tables 2a and 2b reveals some rather surprising findings. Perhaps most glaring is the fact that several teams have not yet had one of their pitchers accomplish a Flawless Pitcher's Cycle — the Cardinals, the Giants, the Pirates, the Reds — each of these four franchises going back to the 1893 season; also the expansion San Diego Padres and the Kansas City Royals. The teams with the most (six) Flawless Pitcher's Cycles are the Dodgers and the Nationals (formerly the expansion Montreal Expos); the Red Sox have the most (five) among the AL clubs.

According to my research — based primarily on the Retrosheet Play-By-Play database — there have been 511 Pitcher's Cycles during the 1893-2025 period — 503 in regular season games and 8 in post-season play. During this period there have been 53 Flawless Pitcher's Cycles in the regular season (i.e., 10.5%); there have not yet been any Flawless-PCs in post-season play. The pitchers who have achieved the most Flawless-PCs are Randy Johnson and Chris Sale, each having earned three. Table 3 shows the hurlers with multiple Flawless Pitcher's Cycles. Two of the hurlers are still active (i.e., they pitched in the 2026 season) — Chris Sale (now with Atlanta) and Max Scherzer (now with Toronto). They could add another Flawless Pitcher's Cycle to their diamond resume and move up in the rankings.

Table 3. Hurlers with Multiple Flawless Pitcher's Cycles.

#	Most Flawless-PCs
3	Randy Johnson [Seattle, 1 (1995); Arizona, 2 (2001, 2003)]
	Chris Sale [White Sox, 1 (2015); Red Sox, 2 (2017, 2018)]
2	Sandy Koufax [Dodgers, 2 (1965)]
	Roger Clemens [Red Sox, 1 (1996); Blue Jays, 1 (1998)]
	Masahiro Tanaka [Yankees (2017, 2018)]
	Max Scherzer [Nationals, 1 (2015); Dodgers, 1 (2021)]

Prior to the creation of the Flawless Pitcher's Cycle, two other special types (subsets) of Pitcher's Cycles had been introduced — the Perfect Pitcher's Cycle and the Super Pitcher's Cycle.[4] Here are their definitions:

Perfect Pitcher's Cycle — A Pitcher's Cycle in which the hurler struck out nine consecutive batters.

Super Pitcher's Cycle — A Pitcher's Cycle in which the hurler also struck out at least one batter in nine consecutive innings in one game.

For comparison, it is mentioned that there have been 12 Perfect Pitcher's Cycles (2.4%) and 31 Super Pitcher's Cycles (6.2%).

Table 4 presents a list of the moundsmen with five or more career Pitcher's Cycles and how many were Flawless-PCs, Perfect-PCs, and Super-PCs.

Table 4. Hurlers with the Most Pitcher's Cycles and the Numbers of Flawless-PCs, Perfect-PCs, and Super-PCs.

Player	First-Last PC	PCs	Flawless-PCs	Perfect-PCs	Super-PCs
Randy Johnson	1992-2004	21	3	0	1
Nolan Ryan	1971-1991	12	0	0	4
Chris Sale	2012-2019	10	3	0	0
Max Scherzer	2010-2022	9	2	1	1
Pedro Martinez	1997-2006	8	1	0	2
Jacob deGrom	2014-2022	8	1	1	0
Steve Carlton	1967-1983	7	0	0	0
Roger Clemens	1986-1998	6	2	0	3
Sandy Koufax	1959-1965	5	2	0	2
Tom Seaver	1970-1976	5	0	1	2
Curt Schilling	1997-2003	5	0	0	1
John Smoltz	1992-2005	5	0	0	0
Jose Fernandez	2013-2016	5	1	0	0
Justin Verlander	2011-2018	5	0	0	0

As can be seen, only one pitcher has managed to accomplish each of the special Pitcher's Cycles — Max Scherzer. And, he achieved each of them in the same game — in the second game of a double header on October 3, 2015. Hurling for the Washington Nationals against the New York Mets at Citi Field in The Big Apple, Mad Max completed the Pitcher's Cycle in the ninth inning when he fanned Lucas Duda, who pinch hit for relief pitcher Carlos Torres, occupying the ninth slot in the batting order. Previously, the Mets number-nine batters — starting pitcher Matt Harvey and pinch hitter Daniel Murphy — had avoided the head-down, frown-faced “batter's-box-to-dugout” walk in the third and sixth innings by ground out plays.

Duda's whiff also completed Scherzer's Perfect-PC; the previous victims were: Curtis Granderson (6th); Miguel Tejada, Michael Conforto, and Michael Cuddyer (in the 7th); Kelly Johnson, Kirk Nieuwenhuis, and Kevin Plawecki (in the 8th); and Yoenis Cespedes (in the 9th). Altogether, Scherzer struck out 17 opposing batters. From an inning-by-inning perspective, Scherzer compiled this line score of batters struck out: 2-1-2—1-2-1—3-3-2, thereby achieving the Super-PC. In addition to completing the trifecta of special Pitcher's Cycles, Scherzer hurled a no-hitter. The diamond gem would have been a perfect game if Plawecki had not reached base on third baseman Yunel Escobar's fielding error in the sixth inning. [Scherzer became the fourth hurler to achieve a Pitcher's Cycle while tossing a no-hitter, the previous ones being Sandy Koufax (1965), Don Wilson (1969), Nolan Ryan (1973 and 1990).]

Jacob deGrom, who is still active, hurling for the Texas Rangers in 2026, is on the doorstep for achieving each of the three special Pitcher's Cycles. He accomplished the Perfect Pitcher's Cycle and the Flawless Pitcher's Cycle in back-to-back starts in 2021 when he was with the New York Mets.

On April 17, 2001, deGrom faced the Rockies in the first game of a double header in Colorado.[15] After retiring the side in order in the first inning (striking out the number-3 hitter) deGrom struck out the side in the second inning (after having given up a double to the first batter and then walking the next batter). deGrom also struck out the side 1-2-3 in the third inning. And, in the fourth inning, each strikeout being a swinging strikeout. deGrom had achieved the the Perfect Pitcher's Cycle. The strikeout string was snapped in the fifth frame when Joshua Fuentes hit a grounder to the second baseman, who fumbled the ball. deGrom was then was rocked for an RBI triple, a sacrifice fly, and a solo homer, although he did get the other two outs via the strikeout. deGrom also whiffed two batters in the sixth before being relieved at the start of the seventh stanza.

deGrom accomplished the Flawless Pitcher's Cycle in his next mound outing on April 23, 2001, in a game against the Washington Nationals. It was a complete game effort in which he fanned 15 opposing batters in chalking up a 6-0 shutout. Through the seventh inning deGrom was on course to match Max Scherzer's trifecta — he had fanned at least one batter in each inning and he had fanned the last seven batters in a row. But that's when everything ended. While he managed to set down the Nationals batters in 1-2-3 order in both the eighth and ninth innings, none were by strikeouts — two ground outs and fly out in the eighth and three ground outs in the ninth.

While still theoretically possible, it does not seem likely that deGrom will be able to pick up the third leg of the Pitcher's Cycle “Triple Crown” by accomplishing the Super Pitcher's Cycle. He hasn't pitched a complete game since he assembled his Flawless Pitcher's Cycle in early 2001. (Due to arm injuries, deGrom was limited to only 20 starts during the 2022-2024 campaigns.)

Finally, to close out this article, the last (most-recent) Flawless Pitcher's Cycle is highlighted. It was achieved by Mackenzie Gore on the first day of the 2025 baseball season. "Gore equaled an Opening Day record set by Hall-of-Famer Bob Gibson in 1967. Gore, an all-star later that season, struck out 13 Phillies without walking anyone or allowing any runs." [16]

REFERENCES and NOTES

- [1] Herm Krabbenhoft, "The Flawless Pitcher's Cycle: Definition & Achievers (1893-2025)," Presentation at the SABR Baseball Records Committee Meeting (SABR-54), Cleveland, OH, August 1, 2026.
- [2] Herm Krabbenhoft, "The Pitcher's Cycle: Definition and Achievers (1893-2023)," *Baseball Research Journal*, Volume 53, Number 2 (Fall-2024), page 34.
- [3] Herm Krabbenhoft, "The Pitcher's Cycle: Definition and Achievers (1893-2023)," Presentation at the Annual Convention of the Society for American Baseball Research (SABR-52), Minneapolis, MN, August 8, 2024.
- [4] Herm Krabbenhoft, "The Pitcher's Cycle: Records and Special Topics (1893-2023)," Presentation at the SABR Baseball Records Committee Meeting (SABR-52), Minneapolis, MN, August 9, 2024.
- [5] Herm Krabbenhoft, "The Pitcher's Cycle: Definition and Team-by-Team Summaries (1893-2023)," Poster Presentation at the SABR Baseball Records Committee Meeting (SABR-52), Minneapolis, MN, August 10, 2024.
- [6] Herm Krabbenhoft, "From Kralick to Lopez and Carew to Polanco: Interesting Aspects of the Pitcher's Cycles and Batter's Cycles Achieved by Minnesota Twins Players (1961-2023)" *The National Pastime*, SABR-52, page 60.
- [7] The *Dickson Baseball Dictionary* gives this for "cycle": "[The series of at least one of each type of hit, i.e.,] a single, double, triple, and home run (not necessarily in that order) hit by a player in the same game." [<https://www.baseball-almanac.com/dictionary-term.php?term=cycle> (accessed September 5, 2026)]
- [8] It is pointed out that Jimmy Ryan of the White Stockings completed his July 28, 1888, cycle as a pitcher after having started the game as Chicago's center fielder. Ryan, who was the leadoff hitter for the White Stockings, singled to open the game in the first inning. He followed with a triple in the top of the second inning. Then, in the bottom of the second, with the Wolverines leading, 7-4, Ryan switched positions with Chicago's starting hurler, Mark Baldwin; the bases were loaded with two outs. Ryan struck out the first batter he faced, Count Campau, to retire the side. Ryan remained on the mound for the rest of the game. In the fourth inning, Ryan walloped a 2-run homer. In the fifth frame he added another triple to his batting line. In the seventh session he was safe on a fielding error by the left fielder ("a rattling liner that was too hot for Twitchell's hands"). And, in what turned out to be his final plate appearance, in the eighth, Ryan clouted a double, giving him the cycle. Thus, for the entire game, Ryan had collected a single and a triple while he was the center fielder and a homer, triple, and double while he was Chicago's pitcher. Complete details of Ryan's performance are given in the following newspaper accounts: (a) "Home Runs All Around," *Chicago Tribune*, July 29, 1888, page 14; (b) "They Hit the Ball Hard," *The (Chicago) Inter Ocean*, July 29, 1888, page 2; (c) "Sluggers

Outslugged,” *Detroit Free Press*, July 29, 1888, page 4; (d) “Was Waterloo Thus?,” *Detroit News*, July 29, 1888, page 8.

[9] The 1893 season was chosen as the starting point because that was the first year for the current 60’6” distance between the pitcher’s rubber and home plate.

[10] Herm Krabbenhoft, "The Perfect Cycle (1901-2025) ... Accomplished With a Little Help From Teammate-Friends," Retrosheet, —> Features —> Research papers, [<https://retrosheet.org/Research/KrabbenhoftH/PerfectCycles.pdf>] (accessed September 5, 2026)]

[11] Herm Krabbenhoft, “Introducing the Perfect Batter’s Cycle (1876-1900),” *Nineteenth Century Notes*, Fall-2026, page 21.

[12] For the Batter’s Cycle, two (or three) sub-sets are sometimes mentioned: (i) A “natural cycle” is when the order of the hits is single, double, triple, home run. (ii) A “reverse cycle” is when the order of the hits is homer, triple, double, single. (iii) All other cycles. See: “Cycle,” <https://www.baseball-reference.com/bullpen/Cycle> (accessed March 12, 2025).

[13] Diane Firstman, “From Usenet Joke to Baseball Flashpoint,” *The Baseball Research Journal*, Volume 47 (Number 1, Spring-2018), pp. 29-37.

[14] “Dickson Baseball Dictionary,” <https://www.baseball-almanac.com/dictionary-term.php?term=three%20true%20outcomes> (accessed September 3, 2026).

[14] Technically (i.e., according to the “letter of the law”), a pitcher hitting a batter with a pitched ball (HBP) is not a true True Outcome. However, according to the “spirit of the law,” the HBP is very much like the pitcher walking the batter in that the pitcher gives the batter free passage to first base. Thus, I consider the HBP to be at least a quasi True Outcome and, treat the HBP the same as a walk.

[15] (In an agreement between MLB owners and the MLB Players Association, for the 2021 season, each of the games of a double header was scheduled for seven innings because of health concerns associated with COVID-19 pandemic. Because the game would likely reach not nine innings, deGrom would not even have the opportunity to accomplish a Super Piitcher’s Cycle.

[16] Herm Krabbenhoft, “May 22, 1901: Noodles Hahn sets record with 16 strikeouts; attains first pitcher’s cycle,” [<https://sabr.org/gamesproj/game/may-22-1901-noodles-hahn-sets-record-with-16-strikeouts-attains-first-pitchers-cycle/>] (accessed September 5, 2026)]

[17] Andrew C. Sharp, “2025: Mackenzie Gore matched an opening day record by Bob Gibson,” Washington Baseball History [<https://washingtonbaseballhistory.com/2026/02/15/2025-mackenzie-gore-matched-an-opening-day-record-by-bob-gibson/>] (accessed May 26, 2026)]

Acknowledgments — Very Special THANKS to Andy Sharp for his excellent article on Mackenzie Gore’s Pitcher’s Cycle (endnote 17). Andy’s article was the inspiration for me to re-examine the Three True Outcomes and apply them to the Pitcher’s Cycle, which led me to formulating the Flawless Pitcher’s Cycle. Thanks also to Larry Annis, Jeff Robbins, Gary Stone, and Patrick Todgham for helpful discussions in my development of the Flawless Pitcher’s Cycle.

APPENDIX — Chronological List Flawless Pitcher's Cycles (1893-2025).

Table A-1. Hurlers Who Achieved a Flawless Pitcher's Cycle (1893-2009).

Pitcher (Team)	Game	OPP	S.O.	IP
Walter Johnson (WAS)	8-28-1913	BOS*	10	* 10.2 *
Bill James (BSN*)	9-13-1914 (1)	CIN	9	* 9.0 *
Van Mungo (BRK*)	9-29-1935 (1)	PHP	15	* 9.0 *
Hal Newhouser (DET*)	9-27-1944	PHA	10	* 9.0 *
Juan Pizarro (CWS*)	5-22-1964	WAS	13	* 9.0 *
Sandy Koufax (LAD*)	8-14-1965	PIT	12	* 10.0 *
Sandy Koufax (LAD*)	9-09-1965	CHC	14	* 9.0 *
Luis Tiant (CLE*)	7-03-1968	MIN	19	* 10.0 *
Frank Tanana (CAL*)	6-21-1975 (1)	MIL	17	* 9.0 *
J.R. Richard (HOU*)	6-06-1980	SFG	13	* 9.0 *
Jeff Fassero (MON)	8-30-1993	COL*	10	7.2
Bobby Witt (OAK)	6-23-1994	KCR*	14	* 9.0 *
Randy Johnson (SEA)	8-11-1995	KCR*	11	7.0
Roger Clemens (BOS)	9-18-1996	DET*	20	* 9.0 *
Pedro Martinez (BOS)	5-12-2000	BAL*	15	* 9.0 *
Mike Mussina (BAL)	9-24-2000	BOS*	15	7.0
Randy Johnson (ARZ*)	5-08-2001	CIN	20	9.0
John Burkett (ATL)	7-29-2001	MON*	11	7.1
John Thomson (COL)	10-07-2001	SDP*	12	7.0
Randy Johnson (ARZ)	4-27-2003 (2)	NYM*	12	6.0
John Patterson (WAS*)	8-04-2005	LAD	13	* 9.0 *
Johan Santana (MIN*)	8-19-2007	TEX	17	8.0
Scott Kazmir (TBR*)	5-26-2008	TEX	13	8.0
Chad Billingsly (LAD*)	4-13-2009	SFG	11	7.0

Table A-2. Hurlers Who Achieved a Flawless Pitcher's Cycle (2010-2025).

Pitcher (Team)	Game	OPP	S.O.	IP
Matt Garza (CHC*)	4-03-2011	PIT	12	7.0
Jordan Zimmermann (WAS)	8-09-2012	HOU*	11	6.0
Jose Fernandez (MIA*)	7-28-2013	PIT	13	8.0
Chris Sale (CWS*)	6-19-2015	TEX	14	8.0
Dallas Keuchel (HOU*)	7-19-2015	TEX	13	7.0
Max Scherzer (WAS)	10-03-2015 (2)	NYM*	17	* 9.0 *
Vince Velasquez (PHI*)	4-14-2016	SDP	16	* 9.0 *
Robbie Ray (ARZ)	5-30-2017	PIT*	10	* 9.0 *
Chris Sale (BOS)	9-20-2017	BAL *	13	8.0
Masahiro Tanaka (NYY*)	9-29-2017	TOR	15	7.0
Aaron Nola (PHI*)	5-08-2018	SFG	12	7.0
Chris Sale (BOS)	8-12-2018	BAL *	12	5.0
Masahiro Tanaka (NYY)	9-07-2018	SEA*	10	8.9
Stephen Strasburg (WAS*)	8-31-2019	MIA	14	8.0
Garrit Cole (HOU)	9-24-2019	SEA*	14	7.0
Lance Lynn (CWS*)	4-08-2021	KCR	11	* 9.0 *
Nathan Eovaldi (BOS*)	4-19-2021	CWS	10	6.1
Jacob deGrom (NYM*)	4-23-2021	WAS	15	* 9.0 *
Corbin Burnes (MIL)	8-11-2021	CHC*	15	8.0
Max Scherzer (LAD)	9-06-2021	STL *	13	8.0
Triston McKenzie (CLE*)	8-19-2022	CWS	14	7.0
Zac Gallen (ARZ*)	4-26-2023	KCR	12	6.1
Tarik Skubal (DET)	7-07-2024	CIN*	13	7.0
Bryce Miller (SEA)	8-15-2024	DET*	9	7.0
Mackenzie Gore (WAS*)	3-27-2025	PHI	13	6.0