

St. Louis Cardinals-ss (11-12-3)

vs. Houston Astros (14-11-1) & New York Mets (11-13-3)

Spring Training Games No. 27 & 28 • Friday, March 21, 2025

RHP Sonny Gray vs. LHP Framber Valdez • RHP Michael McGreevy vs. RHP Clay Holmes

REMAINING SPRING SLATE: The St. Louis Cardinals continue their final week of Grapefruit League with a pair of split-squad day games on their last Friday in Florida, welcoming the Houston Astros to Jupiter's Roger Dean Chevrolet Stadium and traveling to Port St. Lucie to play the New York Mets at Clover Park ... St. Louis breaks camp in Florida on Monday to fly to Memphis to play the "Battle of the Birds" exhibition with the Triple-A Redbirds at AutoZone Park (6:15 p.m. CT).

- Jupiter Coaching Staff: Manager Daniel Descalso, Pitching Coach Dusty Blake, Bench Coach Peter Mooney, First Base Coach Packy Elkins, and Third Base Coach Kleininger Teran
- Port St. Lucie Coaching Staff: Manager Oliver Marmol, Pitching Coach Julio Rangel, Bench Coach Jon Jay, First Base Coach Stubby Clapp, and Third Base Coach Ron "Pop" Warner

WORKOUT DAY: The Cardinals and Twins will hold team workouts and batting practice at Busch Stadium on Wednesday, March 26 ... Minnesota's workout is scheduled for 1:00 p.m. CT, followed by St. Louis.

GRAY TO START OPENING DAY: RHP **Sonny Gray** has been named the Cardinals Opening Day starter vs. Minnesota on March 27 at Busch Stadium.

- Gray has been the Opening Day starter for his team three times (Oakland 2013 & 2014; Cincinnati 2020); Gray, who was scratched from making the 2016 Athletics Opening Day start due to food poisoning, is lifetime 2-0 with an 0.45 ERA in his three Opening Day starts.
- The three-time All-Star had been named the Cardinals 2024 Opening Day starter before suffering hamstring injury in his 2nd Grapefruit League start on March 4.
- With the start, the Cardinals will have sent a right-hander to the mound on Opening Day in 26 consecutive seasons since 2000 ... LHP Donovan Osborne in 1999 vs. Milwaukee was the last St. Louis southpaw.
- The 35-year-old Gray follows **Miles Mikolas**, who started the 2024 opener at 35 years of age ... It marks the first time in Cardinals history in which the Redbirds had two different Opening Day pitchers age 35-or-older in consecutive seasons ... Hall of Famer **Bob Gibson** made five consecutive Opening Day starts at age 35-or-older from 1971-75.

IT IS YOUR BIRTHDAY: Happy 23rd birthday to shortstop Masyn Winn ... Other notables born on this date include pitchers Frankie Montas (32) and Carlos Carrasco (38), infielders Shawon Dunston (62) and Cristian Guzmán (47), catcher Manny Sanguillén (81), outfielder Tommy Davis (1939-2022), and actors Matthew Broderick (63) and Gary Oldman (67).

THE NEST: A newly-released Cardinals Productions feature about **Brendan Donovan** has debuted online at <u>youtube.com/Cardinals</u> ... The 20-minute long-form video offers Cardinals fans an inside look at a Major League offseason alongside the Gold Glove award winner and his wife, Aly, at their home in Alabama.

RED JACKETS: Cardinals Hall of Famers scheduled to attend next Thursday's 2025 Opening Day at Busch Stadium include Jim Edmonds, Ozzie Smith, Tony La Russa, Chris Carpenter, Ray Lankford, Ted Simmons, John Tudor, Vince Coleman, Jason Isringhausen, Matt Morris, José Oquendo, and Scott Rolen.

	Grapet	ruit League
Cardinal	Stat	Rankings
Victor Scott II	Stolen Bases: 5	T-4th
Luken Baker	Home Runs: 4 OPS: .996	T-5th 4th
Nolan Gorman	At-Bats: 50 Plate Appearances: 53	T-3rd T-8th
César Prieto	Doubles: 5	T-3rd
José Fermín	Doubles: 5	T-3rd
Iván Herrera	Extra-Base Hits: 7 Doubles: 5	T-8th T-3rd
Lars Nootbaar	Walks: 13 On-Base Pct.: .480 OPS: .952 Pitches Faced: 231	1st 1st 5th 2nd
Ryan Fernandez	Appearances: 8 Holds: 4	T-8th T-2nd
Ryan Helsley	Appearances: 8 Holds: 4	T-8th T-2nd
John King	Appearances: 8 Holds: 4	T-8th T-2nd
Miles Mikolas	Innings Pitched: 19.2	T-1st
Steven Matz	Innings Pitched: 19.2	T-1st

CARDINALS 2025 SPRING SCHEDULE & RESULTS

	Time/	Probable Starters/			Broadcast Details/
Date/Opp.	Result	Winner-Loser-Save	Record	Att.	Game Highlights
2/22 at MIA^	L, 7-6	Rooney-Svanson-Pushard	0-1	3,996	Arenado 1-2; Barrero 1-2, 2 RBI; Liberatore 2.0 IP
2/23 vs. HOU	L, 11-6	Blubaugh-Robberse	0-2	4,841	Wetherholt 2-3, HR, 3 RBI; Yeager 2-2, HR
2/24 vs. NYM	W, 7-4	Leahy-Suarez-Muñoz	1-2	4,633	Baker 1-4, HR, 4 RBI; Barrero HR; Contreras 2-3
2/25 at TOR	L, 3-2	Y.Garcia-Bedell-Juenger	1-3	5,495	Scott 2-3, 3B, HR; Mathews 2 IP, 0 R, 3 K
2/26 at NYY	L, 7-0	Warren-Hence	1-4	8,655	McGreevy 2.0 IP, 2 K; Fernandez 1.0 IP, 3 K
2/27 vs. MIA	W, 8-4	Liberatore-Bellozo	2-4	4,318	Arenado 3-R HR; Contreras 2-2; Scott 2 SB
2/28 at HOU	L, 3-2	Walter-Fedde-Gusto	2-5	2,377	Prieto 1-1, 2B; Bernal 1-1; Roby 3.0 IP
3/1 vs. WSH (ss)	W, 3-2	Svanson-Grissom, Jr.	3-5	4,670	Contreras 2-run HR; Saggese walk-off 1B
3/2 at MIA^	L, 5-3	Soriano-King-Belgrave	3-6	3,599	Nootbaar 2B, BB; Baker 2-run HR; Walker SF
3/3	OPEN DA				
3/4 vs. NYM	W, 6-1	Pallante-Megill	4-6	4,899	Scott 2B, SB; Arenado 2-run 2B; Koperniak HR
at WSH	W, 6-4	Rajcic-Lara	5-6	2,071	Saggese HR; Y. Peña GW 2-run HR
3/5 at HOU	L, 6-5	Ullola-Loutos	5-7	2,338	Baker HR; Barrero HR; Herrera 2 2B
3/6 vs. WSH	L, 12-1	Soroka-Roby	5-8	4,811	Contreras 2-3; Fedde 3.0 IP, 0 H; Nootbaar 1-2
3/7 vs. H0U	W, 6-4	Anderson-Blubaugh-Gomez	6-8	5,182	Herrera HR; Bernal HR; Fermin 1-2, 2 BB
3/8 at WSH	W, 5-3	Matz-Herz-Leahy	7-8	3,818	Saggese 2-3, 2 R; Pages 1-3, 2 R; Baker 2 BB
3/9 vs. NYY	W, 6-5	Romero-Cohen-Roycroft	8-8	7,463	Preito GW HR; Koperniak GT HR; Gorman HR
3/10 at NYM	L, 8-0	Canning-Gray	8-9	6,097	Barrero 1-1, 2B; Baker 1-3; Gorman 1-3
3/11 vs. MIA	L, 12-5	Weathers-Fedde	8-10	4,675	Barrero 2-3; Herrera 2B; Prieto 1-2
3/12 vs. NYM	L, 2-0	Blackburn-Milolas-Shook	8-11	5,807	Mikolas 5.0 IP; Pages 1-3, 2B; Scott 1-3, SB
3/13 at HOU	T, 1-1		8-11-1	2,756	Herrera 3B, Koperniak 2B; Matz 4.2 IP
3/14 SPG Breakout	T, 3-3	at Miami Marlins			Mathews 3.0 IP; Prieto 2-2, 2B
at NYM	T, 3-3		8-11-2	7,142	McGreevy 4.0 IP; Pozo 2-R HR; Koperniak 2-4
3/15 vs. TOR	W, 9-5	Pallante-Little	9-11-2	6,041	Burleson HR; Nootbaar HR; Donovan 3-4
3/16 at MIA^	L, 11-5	Quantrill-Gray	9-12-2	6,838	Baker 2-R HR; Herrera 2-2; Scott 1-2, 2B, BB
3/17 at WSH	W, 6-2	Fedde-Gore	10-12-2	3,442	Scott 2-4, HR; Fermin 2-5, 2 2B, 4 RBI
3/18 vs. MIA	T, 4-4		10-12-3	4,894	Pages 2-3, HR; Fermin HR; Mikolas 6.0 IP
3/19 vs. WSH	W, 7-1	Matz-Irvin	11-12-3	5,078	Herrera 2-4, 2B; Scott & Burleson HR; Matz 6.0 IP
3/20	OPEN DA	ATE			
3/21 vs. HOU	1:05	RHP Sonny Gray vs. LHP Fram	ber Valdez		KMOX
at NYM	1:10	RHP Michael McGreevy vs. RH		mes	MLB.TV
3/22 at MIA (ss)^	1:10	LHP Matthew Liberatore vs. TB	Α		KMOX
3/23 vs. WSH (ss)	1:05	RHP Erick Fedde vs. TBA			KMOX
3/24 at Memphis	6:15	RHP Andre Pallante vs. TBA			KMOX
Game times are loca	l and subj	ect to change		^ Card	inals are "visiting" team at Roger Dean

GRAPEFRUIT LEAGUE (FL)



NALS 202	SPRING RECAP				
rd	Attendance				
9-7-2	Home (13)67,3	312			
2-5-1	Home Avg5,1	78			
8-4-1	Road (13)58,6	324			
3-8-2	Road Avg4,5	10			
8-7-1	Total125,9	36			
mes at Roger	Home High7,4				
	9-7-2 9-7-2 8-5-1 8-4-1 3-8-2 8-7-1	9-7-2 Home (13)67,32-5-1 Home Avg5,18-4-1 Road (13)58,63-8-2 Road Avg4,58-7-1 Total			

ST. LOUIS OPENING DAY FORECAST

March 27 at 3:15pm CT vs. Minnesota Twins

Day: Partly cloudy. High: 69°
Winds SW at 10-15 mph. Chance of rain 19%

Night: Partly cloudy. Low: 54°
Winds SE at 5-10 mph. Chance of rain 20%

RECENT CARDINALS SPRING TRAININGS Year W-L-T Team BA Team ERA 11-12-3 2024 13-12-5 .248 4.52 2023 17-7-5 .254 4.00 2022 9-5-0 .277 4.54 2021 8-10-6 .244 3.98 2020* 10-9-2 .246 3.52 2019 12-15-4 .239 4.57 2018 17-13-2 .253 3.93 2017 20-8-4 255 3.28 2016 11-13-3 263 3 81

*Reached Postseason

CARDINALS SPRING TRAINING RECORDS AT STADIUMS SINCE 2006

173-133-31
150-103-24
23-30-7
25-25-7
24-19-5
18-7-1
6-12-4
4-2-0
0-1-0

RECENT NON-ROSTER INVITEES TO MAKE CARDS OPENING DAY ROSTERS

2024: OF Victor Scott II 2015: RHP Carlos Villanueva 2023: INF Taylor Motter 2014: RHP Pat Neshek OF Jordan Walker 2013: none 2022: RHP Aaron Brooks 2012: RHP Scott Linebrink RHP Andre Pallante 2011: RHP Miguel Batista 2021: none 2010: none 2020: RHP Kodi Whitley 2009: OF Colby Rasmus 2019: C Matt Wieters 3B David Freese 2018: C Francisco Peña INF Joe Thurston 2017: C Eric Frver 2008: LHP Ron Villone 2016: C Eric Fryer INF Rico Washington OF Jeremy Hazelbaker

RECENT CARDINALS TRANSACTIONS

 $\underline{\textbf{March 18}}\text{: Re-assigned RHP Nick Anderson to minor league camp.}$

March 16: Optioned INF Michael Helman, INF Thomas Saggese, and OF Matt Koperniak to Memphis (AAA) following the game. Re-assigned RHP Michael Gomez, RHP Andre Granillo, C Gavin Collins, C Wade Stauss, C Chance Sisco, C Yohel Pozo, INF César Prieto, INF RJ Yeager, OF Nathan Church, and OF Ryan Vilade to minor league camp following the game.

March 15: Optioned RHP Riley O'Brien to Memphis (AAA).

<u>March 14</u>: Optioned RHP **Roddery Muñoz** to Memphis (AAA) following the game.

March 13: Signed RHP Phil Maton to a oneyear contract for 2025 ... Optioned RHP Gordon Graceffo to Memphis (AAA) before the game.

'S STARTING PI

#54 SONNY GRAY (RHP) · R/R · 35 vrs · 5-10, 185 lbs

- Signed by the Cardinals as a free agent to a three-year contract with a club option through 2027 in November 2023.
- Announced as the Cardinals 2025 Opening Day starter.
- Ranks among active Major League leaders in wins (111, 10th), starts (298, 12th), innings pitched (1,737.1, 13th), strikeouts (1,724, 14th), ERA (3.51, 7th), opponent average (.229, 7th), SO/9 (8.93, 12th), HR/9 (0.87, 4th), WHIP (1.19, 10th), and wild pitches (104, 1st).
- Struck out 203 batters in his first season in St. Louis (two-shy of his career-high), 19th-most in Cardinals single-season history. Became the 9th pitcher in Cardinals single-season history (20th instance) to reach 200 strikeouts and first since Jack Flaherty (231 in 2019).
- Established a new single-season Cardinals records in strikeouts/9 IP (10.98) and strikeout percentage (30.3%) in 2024, surpassing Jack Flaherty (10.59, 29.9%) in 2019.
- Made 28 starts in his first season with St. Louis while missing 20 games due to a right hamstring strain suffered during Spring Training and season-ending right forearm flexor tendinitis.
- Allowed one earned run or fewer in 11 starts (St. Louis was 11-0).
- Finished 2nd in the 2023 American League Cy Young Award voting behind Yankees Gerrit Cole, who received 30 unanimous 1st place votes. Gray received 20 2nd place votes and six 3rd place. Also ranked 18th in AL MVP voting.

#36 MICHAEL McGREEVY (RHP) · R/R · 24 yrs · 6-5, 215 lbs

- Enters the 2025 season ranked as the No. 10 prospect in the Cardinals organization
- Cardinals 1st round pick in 2021 made his Major League debut vs. Texas on July 31, 2024, throwing 7.0 innings and allowing one run in a 10-1 victory.
- Sports a 1.96 ERA (5 ER/23.0 IP) through his first four career games, best by a Cardinal through his first four career games since RHP René Arocha's 1.52 ERA (4 ER/23.2 IP) in 1993 (min. 20 IP).
- Led Minor League Baseball in wins (31), games started (82), complete games (4), innings pitched (447.1), and number of pitches (7,254) over the past three seasons.
- Has thrown 47.1 more innings and 655 more pitches than any other pitcher in minor league baseball since 2022.
- Began the season in Memphis (AAA) and made a team-leading 27 starts for the Redbirds, which ranked tied for 4th in the International League. Finished the season with wins in four straight starts (4-0, 2.35 ERA, 23.0 IP, 6 R, 28 SO).
- Is the only Cardinal in franchise history to earn a win as a starting pitcher and then a relief pitcher in his first two appearances (7/31 vs. TEX & 9/18 vs. PIT).
- His 0.78 WHIP was the best in franchise history among Cardinals pitchers with 20.0 or more innings and three or more starts and best mark since Bob Gibson (0.85) in 1968. Was also the best among MLB rookie pitchers with the same qualifications.

PITCHING LOGS

	ERICK	FED	DE (RHE	")			MATT	THE
DATE-OPP	DEC	ΙP	Н	R	ER	BB	80	DATE-OPP	DE
2/22-MIA		1.0	2	0	0	0	0	2/22-MIA	
2/28-HOU	L-1	2.0	1	1	1	0	3	2/27-MIA	
3/6-WSH		3.0	0	0	0	2	1	3/4-WSH	
3/11-MIA	L-2	4.0	7	6	6	1	0	3/10-NYM	
3/17-WSH	W-1	5.0	3	1	0	1	4	3/16-MIA	
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RYAN FERNANDEZ (RHP)

DATE-UPP	DEC	I۲	п	ĸ	EK	BB	აი
2/22-MIA	H-1	1.0	2	0	0	1	1
2/26-NYY		1.0	0	0	0	0	3
3/1-WSH		1.0	0	0	0	0	2
3/4-NYM	H-2	1.0	0	0	0	1	1
3/7-H0U	H-3	1.0	0	0	0	0	2
3/10-NYM		1.0	2	2	2	0	0
3/14-NYM	H-4	1.0	0	0	0	0	0
3/17-WSH		1 0	2	1	1	Λ	Λ

ANDRE GRANILLO (RHP)

DATE-OPP	DEC	IP	Н	R	ER	BB	SC
2/23-H0U		0.2	2	2	0	1	1
3/2-MIA		0.1	0	0	0	1	1
3/5-H0U		0.1	0	0	0	0	1
3/10-NYM		0.1	0	0	0	0	1
3/16-MIA		1.1	0	0	0	0	2
3/10-W/SH		1 0	Λ	Λ	Λ	Λ	2

SONNY GRAY (RHP)

DATE-OPP	DEC	IP	Н	K	ĿК	RR	80
3/5-H0U		2.2	4	3	3	0	3
3/10-NYM	L-1	4.0	6	4	4	1	4
3/16-MIA	L-2	3.0	6	8	8	5	5

RYAN HELSLEY (RHP)

DATE-OPP	DEC	ΙP	Н	R	ER	BB	SO
2/24-NYM	H-1	1.0	3	2	2	0	0
2/28-H0U		1.0	1	0	0	0	1
3/4-NYM	H-2	1.0	1	0	0	0	1
3/8-WSH	H-3	1.0	0	0	0	0	1
3/11-MIA		1.0	1	1	0	0	1
3/15-TOR	H-4	1.0	0	0	0	0	0
3/19-WSH		1.0	1	0	0	0	1

JOHN KING (LHP) CD DD

DATE ODD

DATE-UPP	DEC	IP	п	ĸ	EK	ВB	งบ
2/23-H0U		1.0	0	0	0	0	0
2/27-MIA		1.0	1	0	0	1	1
3/2-MIA	L-1	0.2	5	3	3	1	0
3/5-H0U		1.0	0	0	0	0	1
3/8-WSH	H-2	1.0	2	0	0	0	1
3/12-NYM		1.0	0	0	0	0	1
3/14-NYM	H-3	1.0	3	1	1	0	0
3/17-WSH	H-4	1.0	0	0	0	0	1

KYLE LEAHY (RHP)

DATE-OPP	DEC	ΙP	Н	R	ER	BB	SO
2/24-NYM		1.0	0	0	0	1	1
2/27-MIA		1.0	0	0	0	0	1
3/4-NYM	H-2	2.0	1	0	0	0	3
3/8-WSH	S-1	2.0	2	0	0	0	1
3/13-H0U		2.0	1	0	0	0	3
3/17-WSH		2.0	2	0	0	0	3

W LIBERATORE (LHP) EC IP H R ER BB SO 2.0 0 0 0 0 2.0 0 0 0 0 3.0 0 0 0 2

1

0 0 2

STEVEN MATZ (LHP)

3.0 3 0

2.2 4 2 2 1 1

DATE-UPP	DEC	I۲	Н	K	ĿК	RR	80
2/24-NYM		2.0	0	0	0	1	0
3/2-MIA		3.0	2	1	1	2	3
3/8-WSH	W-1	4.0	5	2	2	0	3
3/13-H0U		4.2	2	1	1	2	3
3/10-MIA	W-2	6.0	1	1	1	1	2

MICHAEL McGREEVY (RHP)

DATE-OPP	DEC	ΙP	Н	R	ER	BB	SO
2/26-NYY		2.0	0	0	0	0	2
3/4-WSH		3.0	1	0	0	0	1
3/9-NYY		2.2	5	1	1	0	1
3/14-WSH		4.0	3	1	1	0	4

MILES MIKOLAS (RHP)

							0 1 3 3
DATE-OPP	DEC	ΙP	Н	R	ER	BB	SO
2/23-H0U		2.0	2	0	0	1	0
3/1-WSH		2.2	3	2	2	0	1
3/7-H0U		4.0	4	2	2	1	3
3/12-NYM	L-1	5.0	5	1	1	1	3
3/18-MIA		6.0	6	3	3	2	4

ANDRE PALLANTE (RHP)

DATE-OPP	DEC	ΙP	Н	R	ER	BB	SC
2/27-MIA		1.0	5	4	4	2	0
3/4-NYM	W-1	3.0	1	0	0	0	2
3/9-NYY		4.0	8	4	4	1	2
3/15-TOR	W-2	5.0	6	3	2	2	5

JOJO ROMERO (LHP)

DATE-OPP	DEC	IP	Н	R	ER	BB	SO
2/23-H0U		1.0	1	0	0	2	3
2/27-MIA	H-1	1.0	0	0	0	0	1
3/2-MIA		1.0	0	0	0	0	1
3/5-H0U		1.0	0	0	0	0	3
3/9-NYY	W-1	1.0	1	0	0	0	2
3/13-H0U		1.0	0	0	0	0	0
3/15-TOR		1.0	1	0	0	0	2
3/18-MIA	H-2	1.0	0	0	0	1	1

CHRIS ROYCROFT (RHP)

DATE-UPP	DEC	I۲	Н	K	ĿК	RR	St
2/22-MIA	H-1	1.0	0	0	0	0	0
2/26-NYY		1.0	0	0	0	0	0
3/2-MIA		1.0	1	0	0	1	1
3/5-H0U		1.0	2	0	0	0	1
3/9-NYY	S-1	1.0	0	0	0	0	3
3/13-H0U		1.0	1	0	0	0	0
3/15-TOR		1.0	1	0	0	1	1
3/18-MIA		1.0	1	0	0	1	2

DAILY BATTING LOGS																														
Player	2/22	2/23	2/24	2/25	2/26	2/27	2/28	3/1	3/2	3/4n	3/4w	3/5	3/6	3/7	3/8	3/9	3/10	3/11	3/12	3/13	3/14	3/15	3/16	3/17	3/18	3/19	3/21h	3/21n	3/22	3/23
Arenado	01		oow		koo	42		oko	00	002			od	kdd		000		owo	000			101			Foo	1kwo				
Baker		wk1	4oF		odo		000		ow4		1owo	ow4			ooww	1	1kk		W	ko	0100		k4	o1okk	10	01				
Barrero	10		4	0	d		W	ko	k	1		40		w000	00	k	2	w1o1		k	okoo	1	0	kook	1koo	е				
Burleson		ckw		Foo				010			0000	0201		w1w		4ko	000		oko	koo		04	oko		000	o4ko				
Contreras	kh		201			w11		d4k		woc			11d		000	oow		k1o		oow		kk11	02		wk2	h11				
Donovan	ko		000		ook		wk1		000	Зос			01				okw		ook	kwo		1101	000		ok1o	kk1o				
Fermín	ow	co2		000	1		0	0	00	102		eok		ww1o		o2F		wow		0	o1ko		00	o2o2d	d14o	100				
Gorman	ok	со		kow		kkk		kok	2ok		0100	010		oko		042	ko1		000	oko	102		oko	cwow		0002				
Helman	hok	0	0			ooh	F				h		koo		Foo	1	k	F			2owk	0								
Herrera	oF		wk		kk		wwo		okw	kk		22		042		wwo		od2		3dwe			11	1ok		1oc2				
Koperniak	1d	kw	110		010		00C		wo	kk4					1ko	4		oko	0	2	o21k	o2								
Nootbaar	ow			koo		1ok		wow	2w		ook1		o1w	1wwk		kk1		kFw	woo	k3		w1o4	kwd		wcow	1w1o				
Pagés		woo		00		002		ko			o1w		kk		1ek		oow		020			000	1k		104					
Prieto		ko	2			ok	2	0				10	00	0	10	4	k	20	W	0		w2	1							
Saggese		ok1		kod	okk		ok1	01			w4ok				11c		cwk		0	oko		0	2							
Scott II		wk1		340		w1k		ow1		012			000	okow		oko	kww		ko1		1ko1		w2o	1004		oo4k				
Siani	wk		okk		01		000		kok		000W	okow			0000		kok		okk	wko		100	w11							
Vilade		1hk				ko1	wk	0	k	oko		o1k			c2k	0	w	1hk			000W	kk	00	1kk1						
Walker	ko		1k2		kko		kkk		foo		k											kkw		k2ow	000					
Winn	000		kdo				owoo		koo	001			kko	1wkw		100	kok			koo		1oko	ooF							