

**State League 2018-19 - 1st Grade
Batting Leaders (as of Mar 04, 2019)
(All games)**

Hitting minimums - 1 Games 2.3 TPA/Game
Pitching minimums - 1 Games 1.1 IP/Game

Batting avg		Slugging pct		On base pct	
1. McCallum,Liam-BAU-1	.431	1. Santiesteban,Randy-MAC-1	.724	1. McCallum,Liam-BAU-1	.506
2. Santiesteban,Randy-MAC-1	.429	2. Fisher,Graham-RYD-1	.619	2. Rae,Jaylin-MAN-1	.486
3. Rae,Jaylin-MAN-1	.422	3. Johnson,Alex-PEN-1	.595	3. Oldham,Taylor-CRO-1	.478
4. Fisher,Graham-RYD-1	.381	4. McCallum,Liam-BAU-1	.569	4. Dean,Josh-BLK-1	.475
5. Ings,Chris-CCM-1	.371	5. Edmonds,Guy-VIK-1	.556	5. O'Neill,Matt-RYD-1	.475
6. Parish,Luke-RYD-1	.368	6. Rae,Jaylin-MAN-1	.531	6. D'Antonio,Trent-VIK-1	.472
7. Stacy,Ethan-CRO-1	.357	7. Percival,James-BAU-1	.529	7. Wigg,Dane-MAC-1	.472
8. D'Antonio,Trent-VIK-1	.345	8. Clanin,Hunter-MAC-1	.515	8. Edmonds,Guy-VIK-1	.466
9. Hislop,Shannin-MAC-1	.343	9. Martinson,Matt-BAU-1	.506	9. Santiesteban,Randy-MAC-1	.464
10. Oldham,Taylor-CRO-1	.338	10. Hislop,Shannin-MAC-1	.500	10. Bazzana,Travis-RYD-1	.458
Runs scored		Hits		Runs batted in	
1. Santiesteban,Randy-MAC-1	29	1. Santiesteban,Randy-MAC-1	42	1. Santiesteban,Randy-MAC-1	28
2. Wigg,Dane-MAC-1	27	2. Hislop,Shannin-MAC-1	37	2. Clanin,Hunter-MAC-1	22
3. Hislop,Shannin-MAC-1	26	3. Chant,Brady-VIK-1	36	3. Whisler,Josh-MAC-1	21
4. Bazzana,Travis-RYD-1	23	4. Clanin,Hunter-MAC-1	33	4. Hanson,Soren-VIK-1	20
5. Clanin,Hunter-MAC-1	22	5. McCallum,Liam-BAU-1	31	5. Hislop,Shannin-MAC-1	19
Chant,Brady-VIK-1	22	6. Gray,Heath-BAU-1	30	Daly,Bill-MAC-1	19
7. Percival,James-BAU-1	21	7. Percival,James-BAU-1	28	Martinson,Matt-BAU-1	19
8. Webster,Jake-BLK-1	19	8. Bazzana,Travis-RYD-1	27	Campbell,Michael-CCM-1	19
Garr,Jordan-RYD-1	19	Rae,Jaylin-MAN-1	27	Hislop,Kye-MAC-1	19
White,Jackson-VIK-1	19	10. 5 tied at.....	26	10. 4 tied at.....	17
Doubles		Triples		Home runs	
1. Santiesteban,Randy-MAC-1	10	1. Gray,Heath-BAU-1	3	1. Santiesteban,Randy-MAC-1	5
2. Swindling,Will-MAN-1	9	Hislop,Kye-MAC-1	3	Johnson,Alex-PEN-1	5
Chant,Brady-VIK-1	9	McCallum,Liam-BAU-1	3	3. Percival,James-BAU-1	4
Hanson,Soren-VIK-1	9	Myrmell,Dan-RYD-1	3	Edmonds,Guy-VIK-1	4
5. Hislop,Shannin-MAC-1	8	Gonzalez,Luis-MAN-1	3	5. Hislop,Kye-MAC-1	3
6. Clanin,Hunter-MAC-1	7	Rae,Jaylin-MAN-1	3	Hislop,Shannin-MAC-1	3
Edmonds,Guy-VIK-1	7	7. 5 tied at.....	2	Fisher,Graham-RYD-1	3
Oldham,Taylor-CRO-1	7			Clanin,Hunter-MAC-1	3
9. 10 tied at.....	6			White,Jackson-VIK-1	3
Total bases		Walks		Hit by pitch	
1. Santiesteban,Randy-MAC-1	71	1. Wigg,Dane-MAC-1	26	1. Swindling,Will-MAN-1	7
2. Chant,Brady-VIK-1	55	2. Garr,Jordan-RYD-1	23	Edmonds,Guy-VIK-1	7
3. Hislop,Shannin-MAC-1	54	3. Clanin,Hunter-MAC-1	21	Wigg,Dane-MAC-1	7
4. Clanin,Hunter-MAC-1	51	Bazzana,Travis-RYD-1	21	4. Hislop,Shannin-MAC-1	6
5. Percival,James-BAU-1	46	5. Bec,Jeremy-BLK-1	19	Oldham,Taylor-CRO-1	6
6. Edmonds,Guy-VIK-1	45	6. O'Neill,Matt-RYD-1	18	Morgan,Seth-VIK-1	6
7. Johnson,Alex-PEN-1	44	Percival,James-BAU-1	18	Mahoney,Harry-RYD-1	6
8. Gray,Heath-BAU-1	42	8. McGowan,Jordan-CCM-1	17	Hiramatsu,Tatsuya-MAN-1	6
9. 3 tied at.....	41	9. Howe,Alex-BLK-1	16	9. O'Neill,Matt-RYD-1	5
Sac bunts		Sac flies		Webster,Jake-BLK-1	
1. Kamiaraiso,Jun-RYD-1	5	1. Santiesteban,Randy-MAC-1	3	5	
2. Stevens,Jo-BAU-1	3	Parish,Luke-RYD-1	3		
Cone,Ben-BAU-1	3	Cone,Ben-BAU-1	3		
4. Beileiter,Jared-BAU-1	2	4. 14 tied at.....	2		
O'Neill,Matt-RYD-1	2				
Woodbury,Daniel-BAU-1	2				
McMahon,Oakley-CRO-1	2				
Stacy,Ethan-CRO-1	2				
Erickson,Andrew-BLK-1	2				
Myrmell,Dan-RYD-1	2				
				Stolen bases	
				1. Oldham,Taylor-CRO-1	21
				2. Percival,James-BAU-1	15
				Clanin,Hunter-MAC-1	15
				4. Lee,Timothy-PEN-1	12
				5. Clapson,Luke-BAU-1	10
				6. Lee,Jack-CRO-1	8
				D'Antonio,Trent-VIK-1	8
				Edmonds,Guy-VIK-1	8
				Bazzana,Travis-RYD-1	8
				Garr,Jordan-RYD-1	8

Total plate appearances		
1. Wigg,Dane-MAC-1		125
Hislop,Shannin-MAC-1		125
3. Clanin,Hunter-MAC-1		122
4. Chant,Brady-VIK-1		120
5. Webster,Jake-BLK-1		112
Martin,Ben-BLK-1		112
7. Santiesteban,Randy-MAC-1		111
Garr,Jordan-RYD-1		111
9. Morgan,Seth-VIK-1		110
10. Percival,James-BAU-1		109

Strikeouts		
1. Hislop,Kye-MAC-1		41
2. Martin,Ben-BLK-1		35
3. Morgan,Seth-VIK-1		34
4. Swindling,Will-MAN-1		32
5. Mitchell,Dylan-BLK-1		30
6. Chant,Brady-VIK-1		28
Hanson,Soren-VIK-1		28
White,Jackson-VIK-1		28
Smith,Jackson-CCM-1		28
10. 2 tied at.....		27

At bats		
1. Chant,Brady-VIK-1		112
2. Hislop,Shannin-MAC-1		108
3. Clanin,Hunter-MAC-1		99
4. Santiesteban,Randy-MAC-1		98
5. Martin,Ben-BLK-1		96
6. Gray,Heath-BAU-1		95
7. Webster,Jake-BLK-1		94
8. Mitchell,Dylan-BLK-1		92
Clapson,Luke-BAU-1		92
Hanson,Soren-VIK-1		92

Caught stealing		
1. Garr,Jordan-RYD-1		3
Brennen,Max-CRO-1		3
Gray,Heath-BAU-1		3
4. 13 tied at.....		2

Steal attempts		
1. Oldham,Taylor-CRO-1		22
2. Clanin,Hunter-MAC-1		16
3. Percival,James-BAU-1		15
4. Lee,Timothy-PEN-1		14
5. Garr,Jordan-RYD-1		11
6. Clapson,Luke-BAU-1		10
Bazzana,Travis-RYD-1		10
8. Brennen,Max-CRO-1		9
Edmonds,Guy-VIK-1		9
10. 4 tied at.....		8

Grounded into DP		
1. Martin,Ben-BLK-1		5
2. 11 tied at.....		3

**State League 2018-19 - 1st Grade
Pitching Leaders (as of Mar 04, 2019)
(All games)**

Hitting minimums - 1 Games 2.3 TPA/Game
Pitching minimums - 1 Games 1.1 IP/Game

Earned run avg	
1. Cone,Scott-BAU-1	1.21
2. Hanson,Soren-VIK-1	1.51
3. McKendall,Ben-RYD-1	1.93
4. Brook,Alex-CRO-1	2.12
5. Roberts,Tom-BAU-1	2.60
6. Harris,Vaughan-MAN-1	2.66
7. Wilkins,Luke-RYD-1	2.67
8. Yun,Kiho-VIK-1	2.70
9. Anderson,Craig-CCM-1	3.20
10. Fogorty,Shayne-MAC-1	3.33

Opposing bat avg	
1. McKendall,Ben-RYD-1	.159
2. Cone,Scott-BAU-1	.159
3. Hanson,Soren-VIK-1	.171
4. Gessner,Josh-MAN-1	.181
5. Yun,Kiho-VIK-1	.212
6. Brook,Alex-CRO-1	.212
7. Anderson,Craig-CCM-1	.230
8. Nahmens,Will-CRO-1	.239
9. Howe,Derek-MAC-1	.247
10. Wilkins,Luke-RYD-1	.248

Innings pitched	
1. McKendall,Ben-RYD-1	102.2
2. Roberts,Tom-BAU-1	90.0
3. Howe,Derek-MAC-1	89.0
4. Rae,Matt-BLK-1	83.1
5. Fogorty,Shayne-MAC-1	81.0
6. Yun,Kiho-VIK-1	76.2
7. Arayama,Shohei-MAN-1	63.0
8. Skinner,Mitchell-PEN-1	61.1
9. Gray,Heath-BAU-1	60.1
10. Nahmens,Will-CRO-1	59.2

Batters struck out	
1. McKendall,Ben-RYD-1	154
2. Yun,Kiho-VIK-1	108
3. Rae,Matt-BLK-1	95
4. Arayama,Shohei-MAN-1	91
5. Roberts,Tom-BAU-1	80
6. Howe,Derek-MAC-1	75
7. Hanson,Soren-VIK-1	74
8. Gessner,Josh-MAN-1	71
9. Fogorty,Shayne-MAC-1	69
10. Skinner,Mitchell-PEN-1	67

Batters SO out looking	
1. McKendall,Ben-RYD-1	44
2. Howe,Derek-MAC-1	30
Eckberg,Nick-CRO-1	30
4. Fogorty,Shayne-MAC-1	27
5. Yun,Kiho-VIK-1	25
6. Gessner,Josh-MAN-1	24
7. Hanson,Soren-VIK-1	23
Arayama,Shohei-MAN-1	23
9. Atherton,Tim-VIK-1	22
Roberts,Tom-BAU-1	22

Wins	
1. Fogorty,Shayne-MAC-1	9
2. McKendall,Ben-RYD-1	8
Rae,Matt-BLK-1	8
Howe,Derek-MAC-1	8
5. Yun,Kiho-VIK-1	7
6. Hanson,Soren-VIK-1	5
Roberts,Tom-BAU-1	5
8. Grattan,Todd-BLK-1	4
Driver,Mitchell-CRO-1	4
10. 9 tied at.....	3

Saves	
1. Grattan,Todd-BLK-1	3
2. Harris,Vaughan-MAN-1	2
Hanson,Soren-VIK-1	2
Piccoli,Grant-BLK-1	2
Mrakovcic,Maxim-CRO-1	2
6. 16 tied at.....	1

Appearances	
1. Yun,Kiho-VIK-1	20
Driver,Mitchell-CRO-1	20
3. Piccoli,Grant-BLK-1	19
4. McKendall,Ben-RYD-1	18
5. Skinner,Mitchell-PEN-1	17
6. Rae,Matt-BLK-1	16
Roberts,Tom-BAU-1	16
8. 4 tied at.....	15

Games started	
1. McKendall,Ben-RYD-1	18
2. Howe,Derek-MAC-1	15
3. Roberts,Tom-BAU-1	14
4. Skinner,Mitchell-PEN-1	13
Rae,Matt-BLK-1	13
6. Arayama,Shohei-MAN-1	12
7. 6 tied at.....	9

Games finished	
1. Cone,Scott-BAU-1	13
2. Hanson,Soren-VIK-1	12
3. Piccoli,Grant-BLK-1	9
Cobb,Alex-MAC-1	9
Driver,Mitchell-CRO-1	9
Harris,Vaughan-MAN-1	9
7. O'Neill,Matt-RYD-1	7
Eden,Kurt-CCM-1	7
9. 3 tied at.....	6

Games in relief	
1. Piccoli,Grant-BLK-1	19
2. Driver,Mitchell-CRO-1	18
3. Hanson,Soren-VIK-1	13
Cone,Scott-BAU-1	13
5. Yun,Kiho-VIK-1	11
Gorisse,Remco-RYD-1	11
7. 5 tied at.....	10

Sac bunts allowed	
1. Arayama,Shohei-MAN-1	5
2. McAdam,Jason-CCM-1	4
3. McDonald,Travis-VIK-1	3
Skinner,Mitchell-PEN-1	3
Skinner,Nathan-PEN-1	3
Rae,Matt-BLK-1	3
Roberts,Tom-BAU-1	3
8. McKendall,Ben-RYD-1	2
Hanson,Soren-VIK-1	2
Driver,Mitchell-CRO-1	2

Sac flies allowed	
1. Fogorty,Shayne-MAC-1	5
2. Cobb,Alex-MAC-1	3
Gray,Heath-BAU-1	3
Eckberg,Nick-CRO-1	3
Arayama,Shohei-MAN-1	3
6. 10 tied at.....	2

Losses	
1. Skinner,Mitchell-PEN-1	9
2. Skinner,Nathan-PEN-1	7
Arayama,Shohei-MAN-1	7
4. Howe,Derek-MAC-1	5
Eckberg,Nick-CRO-1	5
Gray,Heath-BAU-1	5
7. 5 tied at.....	4

Runners picked off	
1. Arayama,Shohei-MAN-1	2
Roberts,Tom-BAU-1	2
Skinner,Mitchell-PEN-1	2
Yun,Kiho-VIK-1	2
5. 8 tied at.....	1

Wild pitches		
1. Gessner, Josh-MAN-1		12
2. Arayama, Shohei-MAN-1		10
Anderson, Craig-CCM-1		10
4. Skinner, Mitchell-PEN-1		9
5. McKendall, Ben-RYD-1		8
Aldridge, Dean-MAN-1		8
Yun, Kiho-VIK-1		8
8. Grattan, Todd-BLK-1		7
9. Skinner, Nathan-PEN-1		6
10. 5 tied at.....		5

Intentional BB allowed		
1. McKendall, Ben-RYD-1		1
Roberts, Tom-BAU-1		1
3. Gray, Heath-BAU-1		2
Fogorty, Shayne-MAC-1		2
5. Grattan, Todd-BLK-1		1
6. Eckberg, Nick-CRO-1		3
Nahmens, Will-CRO-1		3
8. Anderson, Craig-CCM-1		1
Eden, Kurt-CCM-1		1
Driver, Mitchell-CRO-1		1

Earned runs allowed		
1. Cone, Scott-BAU-1		5
2. Hanson, Soren-VIK-1		6
3. Brook, Alex-CRO-1		7
4. Wilkins, Luke-RYD-1		9
5. Harris, Vaughan-MAN-1		14
6. Eden, Kurt-CCM-1		15
7. Anderson, Craig-CCM-1		16
8. Piccoli, Grant-BLK-1		17
9. Cobb, Alex-MAC-1		20
10. McKendall, Ben-RYD-1		22

Triples allowed		
1. Skinner, Nathan-PEN-1		0
Howe, Derek-MAC-1		0
McAdam, Jason-CCM-1		0
Cobb, Alex-MAC-1		0
Hanson, Soren-VIK-1		0
Brook, Alex-CRO-1		0
Cone, Scott-BAU-1		0
Gessner, Josh-MAN-1		0
9. Fogorty, Shayne-MAC-1		1
Eden, Kurt-CCM-1		1

Balks		
1. Harris, Vaughan-MAN-1		2
Nahmens, Will-CRO-1		2
3. 16 tied at.....		1

Hits allowed		
1. Cone, Scott-BAU-1		21
2. Hanson, Soren-VIK-1		22
3. Brook, Alex-CRO-1		24
4. Gessner, Josh-MAN-1		29
5. Wilkins, Luke-RYD-1		31
Piccoli, Grant-BLK-1		31
7. Eden, Kurt-CCM-1		35
8. Johnson, Alex-PEN-1		40
9. Driver, Mitchell-CRO-1		41
Anderson, Craig-CCM-1		41

Walks allowed		
1. Eden, Kurt-CCM-1		4
2. Wilkins, Luke-RYD-1		5
3. Cone, Scott-BAU-1		8
Anderson, Craig-CCM-1		8
5. Harris, Vaughan-MAN-1		9
Cobb, Alex-MAC-1		9
Driver, Mitchell-CRO-1		9
8. Hanson, Soren-VIK-1		14
9. Piccoli, Grant-BLK-1		17
Brook, Alex-CRO-1		17

Home runs allowed		
1. Arayama, Shohei-MAN-1		0
Skinner, Mitchell-PEN-1		0
Gray, Heath-BAU-1		0
Harris, Vaughan-MAN-1		0
Johnson, Alex-PEN-1		0
Wilkins, Luke-RYD-1		0
Hanson, Soren-VIK-1		0
8. Cone, Scott-BAU-1		1
Skinner, Nathan-PEN-1		1
Grattan, Todd-BLK-1		1

Hit batters		
1. McAdam, Jason-CCM-1		11
2. Driver, Mitchell-CRO-1		10
3. Grattan, Todd-BLK-1		9
Skinner, Mitchell-PEN-1		9
5. Eckberg, Nick-CRO-1		8
6. Rae, Matt-BLK-1		7
Roberts, Tom-BAU-1		7
Howe, Derek-MAC-1		7
9. 3 tied at.....		5

Runs allowed		
1. Cone, Scott-BAU-1		6
Hanson, Soren-VIK-1		6
3. Brook, Alex-CRO-1		8
4. Wilkins, Luke-RYD-1		15
5. Piccoli, Grant-BLK-1		17
6. Harris, Vaughan-MAN-1		23
7. Anderson, Craig-CCM-1		24
8. Cobb, Alex-MAC-1		26
Eden, Kurt-CCM-1		26
10. Gessner, Josh-MAN-1		27

Doubles allowed		
1. Brook, Alex-CRO-1		2
2. Cone, Scott-BAU-1		3
Gessner, Josh-MAN-1		3
4. Driver, Mitchell-CRO-1		5
5. Eden, Kurt-CCM-1		6
Hanson, Soren-VIK-1		6
7. Cobb, Alex-MAC-1		7
Eckberg, Nick-CRO-1		7
Wilkins, Luke-RYD-1		7
10. Anderson, Craig-CCM-1		8

**State League 2018-19 - 1st Grade
Fielding Leaders (as of Mar 04, 2019)
(All games)**

Hitting minimums - 1 Games
Pitching minimums - 1 Games 1.1 IP/Game

Fielding pct		Chances		Putouts	
1. Webster, Jake-BLK-1	1.000	1. Edmonds, Guy-VIK-1	243	1. Edmonds, Guy-VIK-1	233
Bec, Jeremy-BLK-1	1.000	2. Hislop, Shannin-MAC-1	221	2. Hislop, Shannin-MAC-1	208
McCallum, Liam-BAU-1	1.000	3. Thliveris, Jordan-MAN-1	211	3. Parish, Luke-RYD-1	182
Nukunuku, Taituha-BLK-1	1.000	4. Parish, Luke-RYD-1	198	4. Thliveris, Jordan-MAN-1	171
Illingworth, Daniel-CRO-1	1.000	5. Webster, Jake-BLK-1	171	5. Webster, Jake-BLK-1	161
Chant, Brady-VIK-1	1.000	6. Dormer, Jack-BAU-1	164	6. Gray, Heath-BAU-1	143
Rae, Matt-BLK-1	1.000	7. Shepherd, Caleb-PEN-1	161	7. Dormer, Jack-BAU-1	141
Daly, Bill-MAC-1	1.000	8. Gray, Heath-BAU-1	158	Shepherd, Caleb-PEN-1	141
Levin, Jake-BLK-1	1.000	9. Morgan, Seth-VIK-1	148	9. Morgan, Seth-VIK-1	134
Fogarty, Shayne-MAC-1	1.000	10. 2 tied at.....	139	10. Tozer, Ray-PEN-1	132
Assists		Fielding double plays		Passed balls	
1. Santiesteban, Randy-MAC-1	81	1. Hislop, Shannin-MAC-1	23	1. McMahon, Oakley-CRO-1	6
2. Beileiter, Jared-BAU-1	64	2. Santiesteban, Randy-MAC-1	14	2. Hislop, Shannin-MAC-1	3
3. Clapson, Luke-BAU-1	60	3. McAlpine, Jackson-CCM-1	13	3. Lower, Brenden-RYD-1	2
4. Bazzana, Travis-RYD-1	57	4. Passmore, Luke-BLK-1	12	Clanin, Hunter-MAC-1	2
5. Lee, Timothy-PEN-1	53	5. Howard, Cian-PEN-1	11	Thliveris, Jordan-MAN-1	2
Garr, Jordan-RYD-1	53	Morgan, Seth-VIK-1	11	Edwards, Scott-RYD-1	2
7. McAlpine, Jackson-CCM-1	51	Beileiter, Jared-BAU-1	11	Dormer, Jack-BAU-1	2
8. Mitchell, Dylan-BLK-1	49	Tozer, Ray-PEN-1	11	Collins, John-CRO-1	2
9. Glover, Patrick-MAC-1	45	Glover, Patrick-MAC-1	11	Wigg, Dane-MAC-1	2
10. Howard, Cian-PEN-1	39	10. 2 tied at.....	10	Edmonds, Guy-VIK-1	2
Catchers interference		Steal attempts against		Stolen bases against	
1. Whisler, Josh-MAC-1	2	1. Thliveris, Jordan-MAN-1	39	1. Thliveris, Jordan-MAN-1	30
2. Shepherd, Caleb-PEN-1	1	2. Shepherd, Caleb-PEN-1	33	2. Shepherd, Caleb-PEN-1	28
Clanin, Hunter-MAC-1	1	3. Ings, Chris-CCM-1	30	3. Parish, Luke-RYD-1	24
McMahon, Oakley-CRO-1	1	4. Dormer, Jack-BAU-1	28	Ings, Chris-CCM-1	24
Parish, Luke-RYD-1	1	5. Parish, Luke-RYD-1	26	5. Webster, Jake-BLK-1	22
Azzopardi, Andrew-CRO-1	1	6. Gessner, Josh-MAN-1	25	6. Swindling, Will-MAN-1	21
		7. Webster, Jake-BLK-1	24	7. McKendall, Ben-RYD-1	20
		8. Swindling, Will-MAN-1	22	Gessner, Josh-MAN-1	20
		9. McMahon, Oakley-CRO-1	20	9. Dormer, Jack-BAU-1	19
		McKendall, Ben-RYD-1	20	McMahon, Oakley-CRO-1	19
Caught stealing by		Errors			
1. Dormer, Jack-BAU-1	9	1. Garr, Jordan-RYD-1	11		
Thliveris, Jordan-MAN-1	9	Lee, Timothy-PEN-1	11		
3. Ings, Chris-CCM-1	6	3. Amos, Jake-CCM-1	8		
Roberts, Tom-BAU-1	6	Mitchell, Dylan-BLK-1	8		
Collins, John-CRO-1	6	5. Stacy, Ethan-CRO-1	7		
6. Gessner, Josh-MAN-1	5	Shepherd, Caleb-PEN-1	7		
Howe, Derek-MAC-1	5	Taylor, Riley-VIK-1	7		
Shepherd, Caleb-PEN-1	5	Wigg, Dane-MAC-1	7		
Arayama, Shohei-MAN-1	5	9. 6 tied at.....	6		
10. Skinner, Mitchell-PEN-1	4				