

Plymouth St. (3-11-0, 3-6-0 NEHC) -vs- JWU-Providence (3-12-0, 2-7-0 NEHC)
1/12/2024 at Attleboro, Mass.

Date: 1/12/2024
Start: 5:00 pm
Time: 1:53
Attendance: 189
Location: Attleboro, Mass.
Officials: Referee: Pete Torgenson; Referee: Kirk Souza; Linesman: Aidan Tobin; Linesman: Benjamin Ethier

Goals By Period	1	2	3	OT 1	Total
Plymouth St.	0	1	1	0	2
JWU-Providence	2	0	0	1	3

PSU: Carter, Libby (1); Streed, Sophie (1)
JWU: Sara Cruise (2); Zoe Tow (1)

Scoring Summary

Period	Time	Team	Scored By	Assisted By	Type	PSU	JWU
1st	15:20	JWU	Sara Cruise	Unassisted	EV	0	1
1st	19:02	JWU	Zoe Tow	Jianna Truppi, Reese Middendorf	EV	0	2
2nd	05:31	PSU	Streed, Sophie	DeSimone, Emily, Martin, Jacqueline	EV	1	2
3rd	11:02	PSU	Carter, Libby	Martin, Jacqueline, Borbridge, Isabella	EV	2	2
OT	00:52	JWU	Sara Cruise	Madi Fox	EV	2	3

Penalty Summary

Period	Team	Player	MIN	Offense	Type	Time	PP
1st	JWU	Brynn Leahy	02:00	BC	MINOR	00:16	PP
1st	PSU	Carter, Libby	02:00	CROSS-CHECKING	MINOR	19:22	PP

Individual

Plymouth St. 2

Pos	#	Player	G	A	1	2	3	4	Total	+/-	FO	Pen	BLK
G	1	Julian, Amelia	0	0	0	0	0	0	0	0	-	-	0
	2	McGee, Abigale	0	0	1	1	3	0	5	-1	4-7	-	0
	4	Maloney, Katie	0	0	0	0	0	0	0	0	-	-	0
D	5	DeSimone, Emily	0	1	0	0	2	0	2	0	-	-	1
	7	Augustsson, Sanna	0	0	1	0	1	0	2	-1	-	-	0
C	8	Martin, Jacqueline	0	2	2	1	1	0	4	+1	-	-	1
	9	Hoag, Alanna	0	0	0	0	0	0	0	0	-	-	1
	10	Borbridge, Isabella	0	1	0	0	0	0	0	0	-	-	1
	11	Castronova, Laura	0	0	1	0	0	0	1	-1	-	-	1
D	13	Porrello, Katie	0	0	0	1	0	0	1	0	14-21	-	0
	14	Zaniboni, Mia	0	0	0	1	1	0	2	-1	-	-	1
	16	Carter, Libby	1	0	1	0	1	0	2	0	1-10	1-2	0
	18	Cunningham, Morgan	0	0	0	3	2	0	5	0	0-1	-	0
	19	Grant, Robyn	0	0	0	0	0	0	0	0	-	-	0
RW	20	Streed, Sophie	1	0	1	1	1	0	3	+1	-	-	1
	21	Moffett, Carsen	0	0	1	0	0	0	1	0	4-11	-	1
	22	Warnock, Lilli	0	0	0	0	0	0	0	0	-	-	0
	24	Smith, Brenna	0	0	0	0	0	0	0	-1	-	-	1
	27	Gerrie, Emily	0	0	0	0	1	0	1	-1	-	-	0
LW	44	McNeil, Lauren	0	0	0	2	0	0	2	+1	-	-	1
Totals			2	4	8	10	13	0	31	-3	24-51	1-2	10

JWU-Providence 3

Pos	#	Player	G	A	1	2	3	4	Total	+/-	FO	Pen	BLK
RW	2	Sadie Davignon	0	0	0	0	0	0	0	+1	-	-	2
	3	Brooke Dineen	0	0	0	0	0	0	0	0	-	-	0
C	5	Brynn Leahy	0	0	0	1	0	0	1	0	-	1-2	3
	6	Hannah Tsouvalas	0	0	0	1	1	0	2	0	-	-	0
	7	Madi Fox	0	1	0	0	0	0	0	+2	-	-	2
	9	Jianna Truppi	0	1	1	0	0	0	1	0	-	-	0
	12	Sophia Brea	0	0	1	2	2	0	5	-1	-	-	3
	13	Olivia Monte	0	0	0	0	0	0	0	0	-	-	0
	14	Cassidy Rockwood	0	0	0	1	1	0	2	-1	-	-	2
	17	Kylie O'Keefe	0	0	1	2	1	0	4	0	-	-	0
	18	Zoe Tow	1	0	1	1	1	0	3	0	8-21	-	1
D	19	Sara Cruise	2	0	3	1	0	1	5	+2	14-18	-	1
LW	21	Allyson Barry	0	0	3	2	1	0	6	0	-	-	3
	23	Harmony Chicoose	0	0	0	0	1	0	1	-2	-	-	3
	24	Alexia Labre	0	0	1	0	0	0	1	-1	5-12	-	0
D	26	Anna Luecht	0	0	1	3	0	0	4	+1	-	-	2
	28	Reese Middendorf	0	1	0	1	0	0	1	+2	-	-	0
G	30	Sofia Tamayo	0	0	0	0	0	0	0	0	-	-	0
Totals			3	3	12	15	8	1	36	3	27-51	1-2	22

Plymouth St. Goalkeeping

Plymouth St. Goalkeeping

#	Player	De c	Mins	G A	EN	1	2	3	4	Total
1	Julian, Amelia	L	60:52	3	0	10	15	8	0	33
Totals				3	0	10	15	8	0	33

Plymouth St. Faceoffs

JWU-Providence Goalkeeping

JWU-Providence Goalkeeping

#	Player	De c	Mins	G A	EN	1	2	3	4	Total
30	Sofia Tamayo	W	60:52	2	0	8	9	12	0	29
Totals				2	0	8	9	12	0	29

JWU-Providence Faceoffs

#	Player	W	L
13	Porrello, Katie	14	7
2	McGee, Abigale	4	3
21	Moffett, Carsen	4	7
5	DeSimone, Emily	1	0
16	Carter, Libby	1	9
18	Cunningham, Morgan	0	1
Totals		24	27

#	Player	W	L
19	Sara Cruise	14	4
18	Zoe Tow	8	13
24	Alexia Labre	5	7
Totals		27	24

Play By Play

Score	PP	Play
Period #1 Plays		
0-0		[00:00], [00:00] Julian, Amelia at goalie for PSU.
0-0		[00:00], [00:00] Sofia Tamayo at goalie for JWU.
0-0		Start of 1st period [00:00].
0-0		Faceoff Porrello, Katie vs Sara Cruise won by PSU.
0-0		Shot by PSU Streed, Sophie BLOCKED by Brynn Leahy.
0-0		[00:16].
0-0		[00:16] Penalty on Brynn Leahy JWU 2 minutes for BC, (power play opp).
0-0		[00:16].
0-0		Faceoff Porrello, Katie vs Zoe Tow won by PSU.
0-0	PP PSU	[00:16] Start power play for PSU.
0-0	PP PSU	Shot by PSU Warnock, Lilli BLOCKED by Zoe Tow.
0-0	PP PSU	Shot by PSU Carter, Libby BLOCKED by Cassidy Rockwood.
0-0	PP PSU	[02:16] Brynn Leahy (JWU) penalty complete.
0-0	PP PSU	[02:16] End power play for PSU.
0-0		[02:33].
0-0		Faceoff Moffett, Carsen vs Sara Cruise won by JWU.
0-0		Shot by JWU Sara Cruise MISSED, save Julian, Amelia.
0-0		Shot by JWU Allyson Barry MISSED, save Julian, Amelia.
0-0		[02:37].
0-0		Faceoff Moffett, Carsen vs Sara Cruise won by JWU.
0-0		Shot by PSU Martin, Jacqueline BLOCKED by Anna Luecht.
0-0		Shot by JWU Reese Middendorf BLOCKED by Hoag, Alanna.
0-0		[05:51].
0-0		Faceoff Carter, Libby vs Zoe Tow won by PSU.
0-0		Shot by JWU Sophia Brea MISSED, save Julian, Amelia.
0-0		Shot by JWU Allyson Barry MISSED, save Julian, Amelia.
0-0		[06:43].
0-0		Faceoff Moffett, Carsen vs Sara Cruise won by JWU.
0-0		[07:32].
0-0		Faceoff McGee, Abigale vs Alexia Labre won by JWU.
0-0		Shot by JWU Anna Luecht MISSED, save Julian, Amelia.
0-0		Shot by PSU McGee, Abigale MISSED, save Sofia Tamayo.
0-0		[08:46].
0-0		Faceoff Porrello, Katie vs Sara Cruise won by PSU.
0-0		[09:01].
0-0		Faceoff Porrello, Katie vs Sara Cruise won by JWU.
0-0		Shot by JWU Sara Cruise MISSED, save Julian, Amelia.
0-0		Shot by PSU Borbridge, Isabella BLOCKED by Sara Cruise.
0-0		Shot by PSU Streed, Sophie WIDE.
0-0		Shot by PSU Borbridge, Isabella BLOCKED by Sadie Davignon.
0-0		Shot by JWU Alexia Labre MISSED, save Julian, Amelia.
0-0		[10:20].
0-0		Faceoff Carter, Libby vs Alexia Labre won by JWU.
0-0		Shot by JWU Jianna Truppi BLOCKED by Castronova, Laura.
0-0		Shot by JWU Hannah Tsouvalas BLOCKED by Zaniboni, Mia.
0-0		Shot by PSU Carter, Libby MISSED, save Sofia Tamayo.
0-0		[10:51].
0-0		Faceoff Porrello, Katie vs Zoe Tow won by PSU.
0-0		[11:06].
0-0		Faceoff Porrello, Katie vs Zoe Tow won by PSU.
0-0		Shot by PSU Martin, Jacqueline MISSED, save Sofia Tamayo.
0-0		Shot by PSU Streed, Sophie MISSED, save Sofia Tamayo.
0-0		Shot by PSU Moffett, Carsen MISSED, save Sofia Tamayo.
0-0		[12:04].
0-0		Faceoff Moffett, Carsen vs Sara Cruise won by JWU.
0-0		Shot by PSU Warnock, Lilli BLOCKED by Anna Luecht.
0-0		Shot by PSU Augustsson, Sanna MISSED, save Sofia Tamayo.

0-0	Shot by PSU Martin, Jacqueline BLOCKED by Brynn Leahy.
0-0	Shot by PSU Martin, Jacqueline BLOCKED by Allyson Barry.
0-0	[13:53].
0-0	Faceoff Porrello, Katie vs Zoe Tow won by JWU.
0-0	Shot by JWU Cassidy Rockwood BLOCKED by Streed, Sophie.
0-0	Shot by JWU Kylie O'Keefe MISSED, save Julian, Amelia.
0-0	[15:20] GOAL by JWU Sara Cruise (FIRST GOAL), On ice for JWU: Sara Cruise; Anna Luecht; Madi Fox; Reese Middendorf; Sadie Davignon, On ice for PSU: Gerrie, Emily; Carter, Libby; Borbridge, Isabella; Castronova, Laura; Smith, Brenna, goal number 1 for season.
Plymouth St. 0, JWU-Providence 1	
0-1	Faceoff Moffett, Carsen vs Alexia Labre won by JWU.
0-1	Shot by PSU Warnock, Lilli BLOCKED by Harmony Chicoose.
0-1	Shot by PSU Martin, Jacqueline WIDE.
0-1	Shot by PSU Martin, Jacqueline MISSED, save Sofia Tamayo.
0-1	Shot by PSU McGee, Abigale WIDE.
0-1	Shot by PSU Cunningham, Morgan BLOCKED by Allyson Barry.
0-1	Shot by JWU Allyson Barry MISSED, save Julian, Amelia.
0-1	Shot by JWU Jianna Truppi MISSED, save Julian, Amelia.
0-1	[19:02] GOAL by JWU Zoe Tow, Assist by Jianna Truppi and Reese Middendorf, On ice for JWU: Zoe Tow; Jianna Truppi; Reese Middendorf; Hannah Tsouvalas; Cassidy Rockwood, On ice for PSU: McGee, Abigale; Castronova, Laura; Augustsson, Sanna; Zaniboni, Mia; Gerrie, Emily, goal number 2 for season.
Plymouth St. 0, JWU-Providence 2	
0-2	Faceoff Carter, Libby vs Zoe Tow won by JWU.
0-2	Shot by PSU Castronova, Laura MISSED, save Sofia Tamayo.
0-2	[19:22].
0-2	[19:22] Penalty on Carter, Libby PSU 2 minutes for CROSS-CHECKING, (power play opp).
0-2	PP JWU [19:22] Start power play for JWU.
0-2	PP JWU Faceoff Porrello, Katie vs Zoe Tow won by JWU.
0-2	PP JWU Shot by JWU Reese Middendorf WIDE.
0-2	PP JWU End of period [20:00].
Period #2 Plays	
0-2	PP JWU Start of 2nd period [00:00].
0-2	PP JWU Faceoff Cunningham, Morgan vs Zoe Tow won by JWU.
0-2	PP JWU Shot by JWU Sophia Brea MISSED, save Julian, Amelia.
0-2	PP JWU Shot by JWU Allyson Barry MISSED, save Julian, Amelia.
0-2	PP JWU Shot by PSU Martin, Jacqueline MISSED, save Sofia Tamayo.
0-2	PP JWU [01:22] Carter, Libby (PSU) penalty complete.
0-2	PP JWU [01:22] End power play for JWU.
0-2	Shot by JWU Anna Luecht MISSED, save Julian, Amelia.
0-2	Shot by JWU Cassidy Rockwood MISSED, save Julian, Amelia.
0-2	[03:08].
0-2	Faceoff Moffett, Carsen vs Zoe Tow won by PSU.
0-2	Shot by PSU Zaniboni, Mia WIDE.
0-2	Shot by JWU Zoe Tow MISSED, save Julian, Amelia.
0-2	Shot by JWU Madi Fox WIDE.
0-2	Shot by JWU Brynn Leahy MISSED, save Julian, Amelia.
0-2	Shot by JWU Anna Luecht MISSED, save Julian, Amelia.
0-2	Shot by JWU Anna Luecht MISSED, save Julian, Amelia.
0-2	Shot by JWU Sara Cruise MISSED, save Julian, Amelia.
0-2	Shot by JWU Anna Luecht BLOCKED by Moffett, Carsen.
0-2	Shot by PSU Zaniboni, Mia MISSED, save Sofia Tamayo.
0-2	[05:12].
0-2	Faceoff Porrello, Katie vs Alexia Labre won by PSU.
0-2	Shot by PSU Porrello, Katie WIDE.
0-2	[05:31] GOAL by PSU Streed, Sophie, Assist by DeSimone, Emily and Martin, Jacqueline, On ice for PSU: Streed, Sophie; Martin, Jacqueline; McNeil, Lauren; DeSimone, Emily; Porrello, Katie, On ice for JWU: Alexia Labre; Hannah Tsouvalas; Harmony Chicoose; Cassidy Rockwood; Jianna Truppi, goal number 5 for season.
Plymouth St. 1, JWU-Providence 2	
1-2	Faceoff Porrello, Katie vs Zoe Tow won by PSU.
1-2	Shot by PSU McNeil, Lauren MISSED, save Sofia Tamayo.
1-2	Shot by PSU Cunningham, Morgan MISSED, save Sofia Tamayo.
1-2	Shot by PSU Smith, Brenna BLOCKED by Sophia Brea.
1-2	[06:56].

1-2 Faceoff McGee, Abigale vs Alexia Labre won by JWU.
 1-2 Shot by JWU Brynn Leahy WIDE.
 1-2 Shot by JWU Hannah Tsouvalas BLOCKED by Borbridge, Isabella.
 1-2 Shot by JWU Hannah Tsouvalas BLOCKED by Smith, Brenna.
 1-2 [08:18].
 1-2 Faceoff Porrello, Katie vs Sara Cruise won by PSU.
 1-2 Shot by PSU Porrello, Katie MISSED, save Sofia Tamayo.
 1-2 [09:19].
 1-2 Faceoff Carter, Libby vs Zoe Tow won by JWU.
 1-2 Shot by JWU Sophia Brea WIDE.
 1-2 Shot by JWU Reese Middendorf MISSED, save Julian, Amelia.
 1-2 Shot by JWU Reese Middendorf WIDE.
 1-2 [10:36].
 1-2 Faceoff Porrello, Katie vs Alexia Labre won by PSU.
 1-2 Shot by PSU Zaniboni, Mia WIDE.
 1-2 [10:42].
 1-2 Faceoff Porrello, Katie vs Sara Cruise won by JWU.
 1-2 Shot by JWU Allyson Barry MISSED, save Julian, Amelia.
 1-2 [11:23].
 1-2 Faceoff Moffett, Carsen vs Alexia Labre won by PSU.
 1-2 Shot by PSU Cunningham, Morgan BLOCKED by Harmony Chicoose.
 1-2 Shot by PSU Cunningham, Morgan MISSED, save Sofia Tamayo.
 1-2 Shot by PSU McGee, Abigale MISSED, save Sofia Tamayo.
 1-2 [12:38].
 1-2 Faceoff McGee, Abigale vs Zoe Tow won by PSU.
 1-2 Shot by PSU Augustsson, Sanna BLOCKED by Sophia Brea.
 1-2 Shot by JWU Kylie O'Keefe MISSED, save Julian, Amelia.
 1-2 Shot by PSU Gerrie, Emily BLOCKED by Harmony Chicoose.
 1-2 Shot by JWU Sophia Brea MISSED, save Julian, Amelia.
 1-2 Shot by PSU Carter, Libby BLOCKED by Madi Fox.
 1-2 Shot by PSU Cunningham, Morgan MISSED, save Sofia Tamayo.
 1-2 Shot by PSU Cunningham, Morgan WIDE.
 1-2 Shot by PSU McNeil, Lauren BLOCKED by Sadie Davignon.
 1-2 [16:52].
 1-2 Faceoff Moffett, Carsen vs Alexia Labre won by PSU.
 1-2 Shot by PSU McNeil, Lauren MISSED, save Sofia Tamayo.
 1-2 Shot by JWU Alexia Labre WIDE.
 1-2 [18:09].
 1-2 Faceoff Porrello, Katie vs Sara Cruise won by JWU.
 1-2 Shot by PSU McGee, Abigale BLOCKED by Cassidy Rockwood.
 1-2 [19:10].
 1-2 Faceoff Carter, Libby vs Alexia Labre won by JWU.
 1-2 Shot by PSU Gerrie, Emily WIDE.
 1-2 Shot by JWU Hannah Tsouvalas MISSED, save Julian, Amelia.
 1-2 [19:40].
 1-2 Faceoff Carter, Libby vs Zoe Tow won by JWU.
 1-2 Shot by JWU Madi Fox BLOCKED by McNeil, Lauren.
 1-2 Shot by JWU Kylie O'Keefe MISSED, save Julian, Amelia.
 1-2 [19:54].
 1-2 Faceoff Porrello, Katie vs Zoe Tow won by PSU.
 1-2 End of period [20:00].

Period #3 Plays

1-2 Start of 3rd period [00:00].
 1-2 Faceoff Porrello, Katie vs Zoe Tow won by PSU.
 1-2 Shot by JWU Sophia Brea MISSED, save Julian, Amelia.
 1-2 Shot by JWU Sara Cruise BLOCKED by Martin, Jacqueline.
 1-2 [00:55].
 1-2 Faceoff Carter, Libby vs Sara Cruise won by JWU.
 1-2 Shot by JWU Hannah Tsouvalas MISSED, save Julian, Amelia.
 1-2 Shot by PSU Cunningham, Morgan MISSED, save Sofia Tamayo.
 1-2 Shot by PSU Martin, Jacqueline BLOCKED by Madi Fox.
 1-2 [03:24].

1-2 Faceoff Moffett, Carsen vs Sara Cruise won by PSU.
 1-2 Shot by PSU Cunningham, Morgan MISSED, save Sofia Tamayo.
 1-2 [03:27].
 1-2 Faceoff Moffett, Carsen vs Sara Cruise won by JWU.
 1-2 [04:22].
 1-2 Faceoff McGee, Abigale vs Alexia Labre won by PSU.
 1-2 Shot by PSU McGee, Abigale MISSED, save Sofia Tamayo.
 1-2 [05:30].
 1-2 Faceoff Porrello, Katie vs Zoe Tow won by PSU.
 1-2 Shot by PSU Martin, Jacqueline MISSED, save Sofia Tamayo.
 1-2 Shot by PSU DeSimone, Emily MISSED, save Sofia Tamayo.
 1-2 Shot by PSU Streed, Sophie MISSED, save Sofia Tamayo.
 1-2 Shot by PSU Martin, Jacqueline BLOCKED by Sophia Brea.
 1-2 Shot by PSU Martin, Jacqueline WIDE.
 1-2 Shot by JWU Harmony Chicoose MISSED, save Julian, Amelia.
 1-2 Shot by PSU Gerrie, Emily BLOCKED by Brynn Leahy.
 1-2 [07:39].
 1-2 Faceoff Porrello, Katie vs Zoe Tow won by PSU.
 1-2 Shot by PSU Zaniboni, Mia MISSED, save Sofia Tamayo.
 1-2 [09:22].
 1-2 Faceoff McGee, Abigale vs Alexia Labre won by PSU.
 1-2 Shot by PSU Warnock, Lilli WIDE.
 1-2 [09:29].
 1-2 Faceoff McGee, Abigale vs Alexia Labre won by PSU.
 1-2 Shot by PSU Warnock, Lilli BLOCKED by Allyson Barry.
 1-2 Shot by JWU Zoe Tow MISSED, save Julian, Amelia.
 1-2 [10:41].
 1-2 Faceoff Carter, Libby vs Zoe Tow won by JWU.
 1-2 Shot by PSU Gerrie, Emily MISSED, save Sofia Tamayo.
 1-2 [11:02] GOAL by PSU Carter, Libby, Assist by Martin, Jacqueline and Borbridge, Isabella, On ice for PSU: Castronova, Laura; Borbridge, Isabella; Gerrie, Emily; Martin, Jacqueline; Carter, Libby, On ice for JWU: Kylie O'Keefe; Zoe Tow; Sophia Brea; Harmony Chicoose; Cassidy Rockwood, goal number 2 for season.

Plymouth St. 2, JWU-Providence 2

2-2 Faceoff Porrello, Katie vs Sara Cruise won by JWU.
 2-2 Shot by JWU Anna Luecht WIDE.
 2-2 Shot by PSU Porrello, Katie WIDE.
 2-2 [12:48].
 2-2 Faceoff Moffett, Carsen vs Zoe Tow won by JWU.
 2-2 Shot by JWU Sophia Brea WIDE.
 2-2 Shot by JWU Cassidy Rockwood MISSED, save Julian, Amelia.
 2-2 Shot by PSU McGee, Abigale MISSED, save Sofia Tamayo.
 2-2 Shot by PSU McGee, Abigale MISSED, save Sofia Tamayo.
 2-2 [13:26].
 2-2 Faceoff McGee, Abigale vs Sara Cruise won by JWU.
 2-2 Shot by PSU Augustsson, Sanna MISSED, save Sofia Tamayo.
 2-2 [13:49].
 2-2 Faceoff Carter, Libby vs Sara Cruise won by JWU.
 2-2 Shot by JWU Hannah Tsouvalas WIDE.
 2-2 [14:54].
 2-2 Faceoff Porrello, Katie vs Sara Cruise won by JWU.
 2-2 Shot by JWU Allyson Barry BLOCKED by DeSimone, Emily.
 2-2 Shot by JWU Allyson Barry WIDE.
 2-2 [17:28].
 2-2 Faceoff Carter, Libby vs Sara Cruise won by JWU.
 2-2 Shot by JWU Kylie O'Keefe MISSED, save Julian, Amelia.
 2-2 Shot by JWU Allyson Barry MISSED, save Julian, Amelia.
 2-2 [18:18].
 2-2 Faceoff Porrello, Katie vs Zoe Tow won by PSU.
 2-2 Shot by PSU DeSimone, Emily MISSED, save Sofia Tamayo.
 2-2 Shot by JWU Sophia Brea MISSED, save Julian, Amelia.
 2-2 Shot by JWU Sophia Brea WIDE.
 2-2 End of period [20:00].

Period #4 Plays	
2-2	Start of OT period [00:00].
2-2	Faceoff DeSimone, Emily vs Zoe Tow won by PSU.
2-2	[00:52] GOAL by JWU Sara Cruise, Assist by Madi Fox, On ice for JWU: Sara Cruise; Madi Fox; Kylie O'Keefe, On ice for PSU: Porrello, Katie; Martin, Jacqueline; DeSimone, Emily, goal number 2 for season.
Plymouth St. 2, JWU-Providence 3	
2-3	End of period [00:52].