

Trawl book
WATERPROOF
LEVEL BOOK

FILLER
Form No. 311

June 8, 1958 - June 20, 1958

1958

#12 (1)

Return to the Firm.
J. L. DARLING CORP.
BROWNS POINT
TACOMA, WASH. U.S.A.

M/V
Tordenskjold

130580

24
5148
323

2841

107
2841
110

Sacks to be left frozen

#	Contents
VZ-1420	Halibut
Z-1422	Used for burlap
VZ-1426	Sponge ✓
VZ-1428	Fish
VZ-1430	fish

J. L. DARLING CORP.
TACOMA, WASH., U.S.A.

Return to the Rain.

Lewis Hall

07472L

Bottom FAUNA - Round 3

T. Miyahara - F. Hebard

STATIONS	SAC	Station	SAC
B-4	1399	G-8	1412
C-4	1391	H-8	1415
C-5	1392	H-9	1416
C-6	1398	I-9	1417
D-6	1400	I-10	1418
D-4	1401	I-11	1419
D-5	1402	H-11	1421
E-5	1403	D-8	1423
E-6	1404	D-7	1424
E-7	1405	C-7	1425
E-8	1406, 1407	B-7	1427
F-8	1408	B-6	1428
F-7	1411	B-5	1431
F-6	1409		
G-7	1410		

6-8-58	Station B-4	①
Wire Angles.	55°-22'	
Tow No	165°-49'	
Stations	6' down	
13' 11 1/2"	14' 2"	2 1/2"
Bottom fauna sack (Z-1399)		
Catch	240 King crabs	
	37 Tannus	
	50 Hake	
	200 Sokes	
	20 Hooligan	
	500 Shrimps	
Time down 0737		
" up 0837	65-67 fathoms	
200 f. cable		
Lawn Roller	77548	95862
old	74726	92837
	2822	3025
Est. Gross wt.	400 lbs	

DATE - 6-8-58		STATION No C-4		②
J. L. DARLING CORP. TACOMA, WASH. U.S.A.		Return to Bureau		
Time	On Bottom 1236	Position	55°-40'	
	Off Bottom 1336		165°-51'	
Depth	63.64 fathoms	Cable	185'	
Lawn Roller	READINGS	7991.9	198311	
Wire Angles -	14' 0"	14' 4"	1240 fms	
	13' 11 1/2"	14' 3 3/4"	1315	
SEXTANT		RANGE		
Catch - King crabs	5/0			
Tannus	8			
Halibut	10			
Hake	100			
Arrowtooth Flounder	200			
Sokes	100			
Shrimps	2000			
Brachyopods	60			
Est. Part				
Bottom fauna bag	(Z-1391)			
Gross wt.	950			

79919
-77548
2311

98311
-95862
2449 ✓

6-8-58

STATION C-5

③

Time 1818
1918

Position

55°-40'
165°-12'

Depth 59

CABLE

175

LAWN ROLLER

82427

100854

-79919

-98311

2508

2543 ✓

WIRE ANGLES

13' 11 1/2"

14' 3"

Too rough to use balls

Catch:

King Crab

♂ 10

♀ 0

Tanner

♂ 32

Halibut

4

Cod

200

Hake

150

Bullhead

3

Flatfish

500

Basket stars

plenty

Bottom fauna bag

Z-1392

Gross weight

2400 lbs

6-9-58

C-6

④

J. L. DARLING CORP.
TACOMA, WASH. U.S.A.

Rite in the Rain

Time 1118
1218

Position

55° 42' 164° 33'

Depth

51-52 f. Cable

150

Wire Angle -

13' 11 1/2"

14' 1 1/2"

Too rough to use balls

Roller - 84769

103609

King Crab

♂ 33

♀ 79

Tanner

70

Halibut

8

Hake

40

Cod

30

Flatfish - 200

Bullhead - 2

Sponges - Few

Eel parts

Sea pen - Few

Bottom fauna sack

Z-1398

Est. gross wt.

1400 lbs

84769

103609

-82427

-100854

2342

2755 ✓

1-9-58

STATION D-6

③

Time 1555
1655POSITION 56°00'
164°35'

1 split

Depth CABLE 150

Roller - 86802 - 106091

Wire Angle 13' 11 1/2" 14' 4 1/2"

Too rough to use balls

2200 lbs gross

FAUNA SAC # 2 1400 X

King Crab - ♂ 46 ♀ 1

Tanner Crab - ♂ 100 ♀ 7

Basket Star - 20

Shrimp - 100 86802 106091

Sea Pen - 2 84769 103609

Snails - 50 2033 2482 ✓

Halibut - 6

Hake - 90%

Hermit Crab 50

Sculpin 3

Starfish 2 ✓

Brittle Stars 4

Est. Gross Wt. 2200 lbs.

6-11-58

STATION D-4

⑥

J. L. DARLING CORP.
TACOMA, WASH. U.S.A.

Return the Pain.

Time

POSITION 56°02'
165°-48'

Depth 55 Cable 165

Roller 86802 106097
84576 108445 23481

Wire Angle 13' 11 1/2" 14' 4"

13' 11 1/2" 14' 3"

1435 hrs

Too rough to use balls.

FAUNA SAC # 2 1401 X

King Crab ♂ 1 ♀ 0

Tanner 1

Basket Stars 3500 lbs

Shrimp 200

Hakes lot

Eel prints 100

Sea Pen few

4000 gross

Revised the log -
Check on one diff

JUNE 12, 1958

D-5

⑦

Time

Position

55°-59'
165°-16'

Depth 52

Cable

160

Wire angle -

13' 11 1/2" 14' 3"
13' 11 1/2" 14' 3" - 1545

Roller

90951

110846

Too rough to use

2375

balls

2401

King crab

♂ 18

♀ 0

Tanner

49

Habitat

1

Hake

100

Snails

50

Hermit crab

50

Shrimps

500

Fauna Sac - (E-1402)

Est. grass 500 lbs

JUNE 13, 1958

E-5

⑧

J. L. DARLING CORP.
TACOMA, WASH. U.S.A.

Return the Reel

Time 0700
0800

Position

56° 18'
165° 12'

Depth 48

Cable

150

Wire Angle 0735

13' 11 1/2" 14' 3 1/2"

(2800) grass

Roller

93929

113824

Too rough for balls.

2978

King Crab - ♂ 277 ♀ 0

TANNER - 39

Habitat 1

Smith shell - 5000

Basket star 200

Snail eggs -

Hermit Crab 150

Snails

Shrimp 10 #

Hake } 1500 #

Sole } 1500 #

Clay shell - 1

Fauna Sac (E-1403)

6-13-58

E-6

⑨

Time 1130
1230Pos. 56°-13'
164°-39'7800
gross

Wire angles 13'11½" 14'4"

Balls { Distance 384 yds. Left.
Angle 3°36.5

Wire angle 1320 - 13'11½" 14'3½"

96645
-93929
2716

Roller 96645 116542

Bag # 1404 X 113824
2718

King crabs ♂ 96 ♀ 1

Tanner 50

Halibut 1

Basket star 5

Brittle star 25

Snails some

Snail shells - some

Hermit crabs 35

Shrimp 100

Sponge - trace

2000 # Fish
Hake, sole

6/13/58

J. W. DARLINGTON CORP.
TACOMA, WASH. U.S.A.

E-7

10

Return the Reel

Position 56°-20'
163°-57'

wt. gross 21500

Wire angles

14'0"

14'5"

Balls -

14'0"

14'4½"

Depth - 46 Cable 145

Roller

99792

119694

-96645

-116542

3127

3152

Bag # Z 140.5

King crab ♂ 185 ♀ 0

Tanner 39

Halibut 1

Basket star 16

Brittle star 20

Snail 500

Snail shells

Hermit crabs 500

Shrimp 2000

Sponge 40 lbs

Starfish 122

BOOK-NO. 310 FILLER-NO. 311 LOOSE LEAF-NO. 312

77

78

6-14-58		E-8		(11)
Time	0713	POSITION	56°-22'	163°-24'
Depth	45-46	Cable	135	
Wire angles			13' 11 1/2"	14' 1 1/2"
Roller	2469		102167 104636	122360 124836
Balls			1031' 40"	423 yds. (402?)
Bag No.			Z 1406	X Z 1407
King Crabs		♂	34	♀ 33
Tanner			77	
Halibut			2	
Basket stars			6	
Brittle Stars			300	
Snail Shells			50	
Sea Anemones			30	
Rock Oyster			100	
Barnacles			30	
Mussels			50	
Star fish			20	
Crab - kept on deck			15	
Shrimp			1000	
Hake			100	
flat fish			30	
Liparis			5	
trawl of clams				
Est. Gross Wt.			800 lbs.	

6-14-58		F-8		(12)
J.L. DARLING CORP. TACOMA, WASH. U.S.A.		Return the favor.		
Time	1307 1407	POSITION	36°-41'N	163°-24'W
Depth	39	CABLE	120	
Wire	Angles		14' 0"	14' 5"
			14' 0"	14' 5"
Balls	13K	3° 24' 20"	425 yds.	
		3° 24' 40"	427 yds.	
	1400	3° 21' 10"	417 yds.	
		3° 23' 00"	415 yds.	
		3° 20' 35"		
Roller	107539		127739	
Bag No.			Z 1408	X
King Crab		♂	59	♀ 17
Tanner			22	
Halibut			1	
Sole			635	
Basket Star			15	
Brittle Star			2000	
Shrimp			1500	
Snail Shell			21	
Rock Crab			5	
Footed			5	
Est. Gross Wt.			850 lbs.	

107539 127739
 104636 -124836
 2963 2903

BOOK-NO. 310 FILLER-NO. 311 LOOSE LEAF-NO. 312

79

80

J. L. DARLING CORP.
TACOMA, WASH. U.S.A.

F-7

14 June

56° 41'

Return the Reel.

Depth 40 CABLE 120 16400'

Wire Angle - 13' 11 1/2" 14' 4 1/2"

Sextant - 40' 13' 10" 41' 4" 414 ft

Range 40' 13' 10" 415 ft

40 03' 25" 415 most accurate

Reel 110380 130580

King Crab

♂ 273

♀ 3

Corrected
12/8/58 Jde.

Tanner

100

Halibut

0

See No. 2 1441 X

Starfish

50

Beetle Stars

10

Hermit Crab

100

Snails

100

Poleypod

100

Brittle Stars

800

Rock Crab

25

Shrimp

100

Sea Urchin

1

Sea Lion 071 about 1500 lbs.

Trace of Tubenorms tubes

SKATE

1

Gross wt. 4500 lbs

110380

-107539

2841

130580

-127739

2841

BOOK-NO. 310

FILLER-NO. 311

LOOSE LEAF-NO. 312

6-15-58

Feb

Bag # 1409

Time 0702
0802Position 36° 42'
164° 35'

Depth 39

Cable 115

Cable 5° 05' 150" 398 yds

5° 10' 00" 393

5° 10' 40" 411

5° 13' 40" 393

4° 24' 10" 393

winch cable 13' 11 1/2" 14' 4 1/2"

Roller

112897

133099

110380

130580

2517

2517

King Crabs ♂ 6 ♀ 0

Tanner 20

Halibut 4

Starfish 425

Pelecypod 300

Basket Stars 10

Brittle Stars 50

Fluke 150

Hermit Crabs 30

Snail shells 30

Sole 500

Shrimp 200

Cod 80

Gross wt. 1850 lbs.

6-15-58

9-7

Pos. 57° 00'
164° 00' Return the Pan.J.L. DARLING CORP.
TACOMA, WASH., U.S.A.

Depth: 36 Cable 108

3045' 50 392 yds

3043' 45' 391

415'

405'

14' 0" 14' 4 1/2"
14' 0" 14' 5"
13' 44' 20" 397 yds

Bag # 1410

Roller - 115306 135715

Brittle Stars 50

Basket Star 0

King Crab ♂ 3 ♀ 0

Tanner 339

Halibut 3

Pelecypod Many (200) shells - no body

Stars 200

Flat Fish 1000

Shrimp 300

Snails 200

Forthalls 2

Grapes 100 - (In fauna bag)

Gross 1950 lbs

115506

135715

-112897

-133099

2609

2616

BOOK-NO. 310 FILLER-NO. 311 LOOSE LEAF-NO. 312

6-15-58		STATION	6-8
Time	1724 1824	Position	57° 00' 163°-24'
Depth	35-36	Cable	105
Roller	117787		137997
Balls -		3° 55' 05"	397
		3° 56' 20"	410
Well Angle	14' 0"	14' 5 1/2"	
		3° 28' 50"	405
		3° 35' 00"	390
117787	137997		
+115506	-135715		
2281	2282	<u>Sac No. E 1412</u> X	
King Crab	♂ 82 ♀ 2		
Tanner Crab	108		
Halibut	3		
Basket stars	0		
Brittle stars	1000		
Snail shells	50		
Starfish	50		
Shrimps	few 10+		
Hake	0		
Sauls	3000* (7000 undiv)		
Clams	50		
	3000 lbs gross		

6-16-58		H-8	
J. L. DARLING CORP. TACOMA, WASH. U.S.A.			
Return the Rain.			
Time	0725 0825	Position	57° 20' 163°-21'
Depth	29	Cable	90
Roller	118617		140451
Balls	3° 47' 20"	370	372
	3° 36' 30"		368
	3° 29' 30"		
	3° 31' 30"		
	3° 41' 40"		
Well Angle	14' 00"	14' 6"	
	<u>Sac # 1415</u>		
King Crab	♂ 16	♀ 1	
Tanner Crab	4	hermit Crabs	20
Halibut	4		
Basket stars	1		
Brittle stars	0		
Snail shells	2		
Starfish	2500		
Shrimps	20		
Hake	0		
Flapfish	3000		
Clams	50		
Hairy Crab	12		
Rock Crab	15		
Sea urchins	25		
		2500 lbs gross	
BOOK-NO. 310 FILLER-NO. 311 LOOSE LEAF-NO. 312			

118617 140451
117787 -137997
830 2454 ✓

6-16-58	Station	H-9	57°-18'
Time 1132		Position	162°-46'
1232			
DEPTH = 26		Cable	80
	2° 55' 50"	346	349
	2° 54' 10"	349	352
	2° 59' 30"		
120885	Net Angle	14' 1/2"	14' 7 1/2" 142723
-118617	Roller	120885	142723 -140451
2268	Sack No	Z 1416	X 2272 ✓
King Crab	♂ 35	♀ 9	
Tanner Crab		0	
Hairy Crab		17	
Rock Crab		15	
Basket Star		15	
Brittle Star		0	
Agg Star		1000	
Snail Shell & Hermit Crab		50	
Snails		0	
Shrimp		0	
Clams		20	
Flatfish		3000	
Halibut		1	
Sea Poachers		150	
also present			
Brans (cent bag)		15	
			Gross 2000

6-16-58	I-9	57°-38'	
J. L. DARLING OF WYCOMBE, WASH. 162°-5'	Position	162°-44' in the Rain.	
TIME 1725			
DEPTH 23-24	CABLE	70	
Roller	121948	145745	
	4° 46' 30"	335 338 2 glass balls on each line	
	4° 24' 30"	342 336	
	4° 30' 00"		
	4° 21'		
Net Angle	14' 1/2"	14' 8"	
	4° 03' 45"	344	
		332 335	
	14' 1/2"	14' - 8 1/2"	
	Sack No	Z 1417 X	
King Crab	♂ 4	♀ 4	Skate 2
Hairy		6	
Tanner		0	
Rock Crab		1	
Hermit Crab		2	
Basket Star		0	
Brittle Star		0	
Agg Star		400	
Clams		0	
Snail Shells		0	
Flatfish		2000	
Halibut		7	
Sea Poachers		20	
Hake		0	
Smelt		500	
			2000 lbs Gross
			BOOK-NO. 310 FILLER-NO. 311 LOOSE LEAF-NO. 312
			Cast King Crab Shells - female abdomen

121948
 120885
 1063

145745
 -142723
 3022 ✓

6-17-58

I-10

Time 0645
 Position 57° 41' 162° 07'
 Depth 25 CABLE 75
 Roller 124806 148604 148604
 124806 Balls - 3° 00' 00" 336
 -121948 3° 03' 00" 334 -145745
 Wire angle 14' 1" 14' 9" 2859
 2858

Sack No. 1418

King Crab ♂ 33 ♀ 55
 Halibut 15
 Tanner 2
 Hairy 4
 Starfish 200 2500 gross
 Shrimp 50
 Snails 10
 Soles 3000
 Birds 3

6-17-58
 J. L. DARLING CORP.
 TACOMA, WASH. U.S.A.

I-11

Time 1100
 Position 57° 37' 161° 28' ^{Open the Rain}
 Depth 28-29 CABLE 85
 Roller 151562 127764
 Balls 4° 35' 10" 301 311
 4° 32' 00" 304 310
 Wire angle 14' 1" 14' 8"

Sack No. Z 1419

King Crab ♂ 65 ♀ 263
 Tanner 1
 Rock 2
 Halibut 18 3800 lbs
 Flatfish 8000 9 gross
 Basket Star 20
 Regular Starfish 50
 Sea Bunchers 50
 Hermit Crabs 1
 Snails 0
 Irish Lords 15
 Hairy 52
 Brain (growth) 5
 Shrimp - 100 (Green species)

SAC # 21420 X
 Contains Halibut

BOOK-NO. 310 FILLER-NO. 3 LOOSE LEAF-NO. 312

Just crab tagged 1440 lbs

151562
 148604
 2958127764
 -124806
 2958

6-17-58

H-11

57°20

Time 15:00
16:00

Position 161°-33

Depth 29-30 Cable 90

128725 Roller 129725 - 153950

-127764

Balls

5°09' 20" 33
5°18' 30" 347

153950

961

Wire Angle 14' 1/2" 14' 7"

-151562

2388 ✓

Bag # 2 1421 X

King Crab 489 ♂ 180 ♀ 309

Tanner Crab 0

Hairy Crab 36

Hermit Crab 0

Rock Crab

Basket Star 100

Reg. Stars 100

Brittle Stars 0

tube worms 1

Clams 10

Smalls 0

Flatfish 4000 2000^{FF}

Halibut 7

Shrimps 0

Skates 1

1422

use for
BurlapNot Bottom
Sample

6-19-58

D-8

56°00

Time 0825
0925

Position 163°-28

Depth 48 Cable 145

Roller - 129946 - 156658

-128725 -153950

1201

2708 ✓

Wire Angle - 13' 11 1/2" 14' 8"

Bag # 1422 - Not used

Bag # 2 1423 X

King Crab ♂ 32 ♀ 81

Tanner Crab 64

Hairy Crab 2

Rock Crab 2

Hermit Crab 4

Basket Star 0

Reg. Star 20

Brittle Star 40

Smalls 10

Clams 0

tube worms 0

1500 gross

Shrimp 100

Flatfish 2000

Halibut 3

Skate 0

Sponge 03

BOOK-NO. 310 FILLER-NO. 311 LOOSE LEAF-NO. 312

6-19-58	D-7	56°00'	
TIME 1230 1330	POSITION	164°00'	
Depth 49	CABLE	147	1300# GROSS
Roller	159587	- 131446	
Balls.	3°41'30"	455 yds. ?	
		Very hard to see.	
Wire Angle	13'11 1/2"	14'4 1/2"	
<u>Bag # Z 1424</u>	X		
King Crab	♂ 45	♀ 72	
Hermit Crab	20	159587	131446
Tanner Crab	150	156658	128725
Hairy Crab	2	2929	2721
Rock Crab	2		
Brittle Star	20		
Basket Star	20		
Reg. Star	30		
Small	50		
Clam	0		
Tubeworm	0		
Shrimp	300		
Flat fish	1500		
Halibut	2		
Sponge	trace		
MAK	200		

1200
gross

6-19-58	C-7	55°40'	
J. L. DARLING CORP. TACOMA, WASH. U.S.A.		164°-00'	Return to Pan.
TIME 1700 1800	POSITION		
Depth 51-52	CABLE	153	
Roller	161849	- 132732	
Wire Angle	13'11 1/2"	14'2 1/2"	
	13'11 1/2"	14'3"	
<u> fauna Sack No. 1425</u>	X		
King Crab	♂ 27	♀ 28	
Tanner			
Hermit	20		
Hairy	0		
Rock	0		
Star	2		
Brittle Star	0		
Basket star	0		
Snails	50		
Clams	0		
Shrimp	100		
Sponge	500 lbs		
Flat fish	700		
Halibut	0		
MAK	200		
Cod	50		

Last crab topped
at - 1905 hrs

1300
gross

161849 132732
-159587 -131446
2262 1286

BOOK-NO. 310 FILLER-NO. 311 LOOSE LEAF-NO. 312

Sponge - IN SACK # Z 1424

6-20-58

B-7

55°-20'

Time 0614
0724

POSITION

164°03'

Depth 39-43 CABLE 115

Roller 134674 164287

Wire Angle - 14'0" 14'5 1/2"

Taura Sack No. 1427 X

King Crab

♂ 3 ♀ 0

Tanner

7

134674

164287

Hermit

20

-132732

-161849

Hairy

2

1942

2438 ✓

Starfish

200

Brittlestar

0

Basketstar

0

Snail

50

Clam

0

Shrimp

10

Sponge

0

Halibut

3

flatfish

300

Hake

100

Cod

0

Wolf eel

1

Undenitified fossils in Sac # 1428 ✓

6-20-58

B6

55°-20'

J.L. DARLING CORP.
TACOMA, WASH. U.S.A.Time 1104
1204

POSITION

164°-36'

Depth 55°-57 Cable 165

Roller 167210 - 137116

Wire Angle 13'11 1/2" 14'3 1/2"

E 1429

King Crab

♂ 32 ♀ 22

Tanner

10

Hermit

10

Hairy

0

Rock

0

Starfish

50

Brittlestar

0

Basketstar

0

Snail

20

Clam

0

Shrimp

500

Sponge

0

Halibut

2

flatfish

1000

Hake

50

Cod

0

167210

137116

-164287

-134674

2923 ✓

2442

Sack No. 1430 X
Contains fish

6-20-58

B-5

J. L. DARLING CORP.
TACOMA, WASH. U.S.A.

Return to the Rain.

Time: 1557
1657Position: 55° 18'
165° 13'

Depth: 61-63

Cable: 180

Roller: 139407

169614

Wire angle:

13' 11/2" 14' 3 1/2"

fauna Sac #2 1431 X

King Crab

♂ 24

♀ 110

Tanner

20

139407

169614

Hermit

-

-137116

-167210

Hairy

-

2291

2404 ✓

Starfish

500

Basket Star

0

Brittle Star

0

Snail

100

Clam

1

Shrimp

5000

Sponge

0

Halibut

?

Flatfish

100

Hake

20

this station may be
slightly off as numbers
written in later (after
station by a day)
F.H.

BOOK-NO. 310

FILLER-NO. 311

LOOSE LEAF-NO. 312

96

skipped blank pages

Crab No.	L.	W.	Weight LIVE	Weight cooked	Meat Weight	Weight All MEAT	MEAT	Content	Return the Paper
1 0	150	174	6# 7	5# 11	63 gms	2# 3			
vo? 2 0-	160	187	8# 7	7# 10 ⁹	82 gms	2# 12			
3	173	205	10# 2	8# 9 ⁹	83 gms	2# 14 ⁰³			
4	175	206	11# 4	9# 3 ⁰³	107 gms	3# 7 ⁰³			
5	167	197	9# 2	8# 11	87 gms	2# 14 ⁰³			
6 v.o	160	182	8# 3	7# 14"	71 gms	2# 10 ^{1/2} 09			
7 v.o	162	188	8# 4	7# 9 ⁰³	78 v	2# 9 ^{1/2} 03			
8 v.o	160	194	9# 1	7# 14 ⁰³	79 gms	2# 7 ^{1/2} 03			
9 v.o	172	193	9# 13	8# 12 ⁰³	88 gms	2# 11 ^{1/2} 03			
10 v.o	171	198	9# 3	8# 3	96 gms	3# 1/2 03			

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