

Rpt. 1.

DISCLOSED
SECTION

No.

Date of completion of report

Survey held at

On the (State if Machinery fitted Aft and
(if Single, Twin or Triple Screw)State Type (Full Scantling, Complete Superstructure
with or without Tonnage Openings)TONNAGE under
Tonnage Deck...Do. of space or spaces
between Tonnage Dk.
and Upper Dk.

Total

Gross Tonnage

Register Tonnage

REGISTERED DIMENSIONS.

FEET.

Length

Breadth

Depth

State if Report has been sent on the Freeboard of the Vessel

State if Report is sent on the Machinery of the Vessel

Port of

Date First Survey

Last Survey

T. S. S. "EMPRESS OF JAPAN"

(Machinery Amidsheeps)

Complete Superstructure

State Type of Erections Combined Bridge
and Forecastle

Built at

Launched 17th Dec. 1929 Yard No. 634

Builders Fairfield S. & S. Co. Ltd

Owners Canadian Pacific Railway Co.

Managers Canadian Pacific Steamships Ltd.

Residence London

Port of Registry London

If surveyed while building, afloat, or in dry dock

FRAMES, DOUBLE BOTTOM AND BEAMS.

	INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.		INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.
AMES, Spacing amidships	39		Bracket Floors, Frame	None	
" " from $\frac{1}{2}$ length to Collision bulkhead	27		" " Reversed Frame	"	
" " in peaks	18		" " Vertical Struts	"	
FRAME FRAMING.			Centre Girder, depth and thickness amidships	53 x .72	
Frame Amidships, Angle, [or]	12 x 12 x 54		" " top Angles	(2) 4 4 .70	
" " Extends up to	11 x 11 x 54		" " bottom Angles	(2) 5 5 .76	
Frame Amidships, Angle	11 x 11 x 54		Side Girders, No. each side and thickness	4 full depth 1 half do 50	
Frame Amidships, Angle	11 x 11 x 54		Margin Plate depth (excl. of flange) and thickness	69 x .70	
Depth of Framing Girder	15 12 11 10		" " Vertical Angle to Tank side	6 6 .52	
Frames in Uppermost Continuous (tween Decks, Angle, [or]	10 x 3 1/2 x 38		Bracket abaft $\frac{1}{2}$ len. from stem	double	
" " Second tween Decks, Angle, [or]	9 x 3 1/2 x 48		" " Vertical Angle to Tank side	56 6 .52	
" " Third " " " "	do.		Bracket forward $\frac{1}{2}$ len. from stem	25 25 .52	
Framing in Peaks, Angle or [10 3 1/2 .50		Gussets, spacing and scantling abaft $\frac{1}{2}$ len. from stem	none	
Diameter and Spacing of Rivets through Frame and Shell Plating amid- ships	1 dia. 5 1/2 p		" " Gussets, spacing and scantling forward $\frac{1}{2}$ len. from stem	"	
State if Frame Joggled	Yes		Tank Side Brackets, height above base line at toe of Frame and thickness	11-2 x .52	
FRAMING ARRANGEMENTS (Sec. 7), state system and particulars	Deep Framing and Side Skirtings per App. Plan		INNER BOTTOM PLATING.		
STRENGTHENING OF BOTTOM FOR- WARD. State Particulars	Increased Shell Plating; Double Shell; Frames at 10 ft. intervals		Breadth and thickness of Middle Line Strake	67 x .68	
DOUBLE BOTTOM.			Thickness of remainder in Holds	.58	
Frames, Depth and thickness at mid-line in Holds			Are Rule requirements complied with regarding increases of scantlings in way of double bottom in E. & B. space and framing in Bunkers and Boiler Room?	Yes	
Height of Brackets at side above base line at toe of frame			BEAMS.		
Middle Line Keelson, on Floors, Angles, [or]			Uppermost Continuous Deck, amidships, in Walls, Angle, [or]	9 x 3 1/2 x 36	
" " Through Plate or Intercostal Plate			" " in way of Bridge, Angle, [or]	do.	
" " Foundation Plate on Floors			Spacing	39	
" " Flat Plate Keel Angles			Second Deck, amidships, Angle, [or]	9 x 3 1/2 x 36	
Keelsons, No. each side			Spacing	39	
" thickness of Intercostal Plate			Third Deck, amidships, Angle, [or]	9 x 3 1/2 x 36	
DOUBLE BOTTOM.			Spacing	39	
Solid Floors, thickness and spacing	52 39		Fourth Deck, amidships, Angle, [or]	9 x 3 1/2 x 36	
" " Are Frame and Reversed Frame joggled?	Yes		Spacing	39 & 27	
Bracket Floors, breadth and thickness at middle line	None		Deep Deck, Angle, [or]		
" " breadth and thickness at margin plate	"		Bridge Deck, Angle, [or]	9 x 3 1/2 x 36	
			Spacing	39 & 27	
			Forecastle Deck, Angle, [or]		
			Spacing		

2m, 8.28. T.

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Foundation

PILLARS AND DECKS.

	INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.		INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.
PILLARS, No. of Rows.....	<i>Four rows</i>		Stringer Plate, breadth and thickness in way of <i>Bridge Prom. Deck</i>	<i>58 x '45</i>	
.. in 'tween Decks, Size and Spacing.....	<i>of widely spaced pillars</i>		Thickness of Plating abreast Deck openings in way of <i>Wells clear of Prom. Deck</i>	<i>'41</i>	
" " " " " ".....	<i>with deck girders, as</i>		Thickness of Plating abreast Deck openings in way of <i>Bridge Promenade Deck</i>	<i>'41</i>	
" in Holds " " " ".....	<i>per approved plans.</i>		Thickness of Plating within line of openings..	<i>'34</i>	
" " " " " ".....			If Sheathed, material and thickness	<i>Covered with 1/2" composition</i>	
Centre Line Bulkhead, Stiffeners and Spacing.....			Third Deck.		
Plating, thickness of.....			Stringer Plate, breadth and thickness.....	<i>58 x '36</i>	
STRINGERS AND DECKS.			If Plated, state thickness.....	<i>'32</i>	
Uppermost Continuous Deck	<i>In Promenade deck (see plans)</i>		Fourth Deck.		
Stringer Plate, breadth and thickness in <i>Wells</i>	<i>clear of prom Deck</i>		Stringer Plate, breadth and thickness.....	<i>covered with composition</i>	
" " " " " " in way of <i>Bridge</i>	<i>Prom. Deck</i>		If Plated, state thickness	<i>1 1/2 x '34</i>	<i>ford.</i>
" Angle in <i>Wells</i>	<i>clear of Prom Deck</i>		Deep Deck.		
Thickness of Plating abreast Deck openings in way of <i>Wells clear of Prom. Deck</i>	<i>6 6 '96 '86 app. 2</i>		Stringer Plate, breadth and thickness.....	<i>'32</i>	
Thickness of Plating abreast Deck openings in way of <i>Bridge Prom. Deck</i>	<i>'58</i>		Plating, Sheathing, material and thickness.....		
Thickness of Plating within line of openings...	<i>'46, '43, '34</i>		Bridge Deck.		
If Sheathed, material and thickness	<i>4 x 2 1/2 Teak where exposed</i>		Stringer Plate, breadth and thickness.....	<i>93 x '104</i>	
Second Deck.	<i>clear of prom Deck</i>		do in way <i>Prom. Deck</i>	<i>58 x '56</i>	
Stringer Plate, breadth and thickness in <i>Wells</i>	<i>58 x '47</i>		Plating, Sheathing, material and thickness	<i>'73 and '49</i>	<i>(well ford)</i>
			Forecastle Deck.		
			Stringer Plate, breadth and thickness.....	<i>60 x '78</i>	
			Plating, Sheathing, material and thickness	<i>44 x '50</i>	
				<i>'60 1/2 '40</i>	

SHELL PLATING.

SCANTLINGS.						RIVETING.						
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES. State if jogged? No			BUTTS.			
	AMIDSHIPS.		FORWARD.	AFT.		SINGLE OR DOUBLE.	RIVETS.		NO. OF ROWS OF RIVETS.	RIVETS.		STRAPPED OR LAPPED.
	Breadth. Inches.	Thickness. Inches.	Thickness. Inches.	Thickness. Inches.			Diam. Inches.	Spacing cr. to cr. Inches.		Diam. Inches.	Spacing cr. to cr. Inches.	
FLAT PLATE KEEL <i>for 3/4 L</i> " Below (if any)	<i>6 1/4</i>	<i>1-08</i>	<i>1-14</i>	<i>1-14</i>		<i>Double</i>	<i>1 1/8</i>	<i>4 1/2</i>	<i>Five</i>	<i>1 1/8</i>	<i>5</i>	<i>Strapped</i>
BOTTOM PLATING, No. of Strakes <i>6</i>	<i>* 88</i>	<i>.63</i>	<i>.70</i>	<i>.65</i>		<i>Double</i>	<i>1</i>	<i>3-9</i>	<i>Five</i>	<i>1</i>	<i>4 1/2</i>	<i>Strapped & Lapped</i>
BILGE PLATING, No. of Strakes <i>2</i>	<i>.88</i>	<i>.63</i>	<i>.63</i>			"	"	"	"	"	"	<i>Lapped</i>
SIDE PLATING, No. of Strakes <i>5</i>	<i>.82</i>	<i>.58</i>	<i>.58</i>			"	"	"	<i>Four</i>	"	<i>4</i>	<i>Lapped</i>
UPPER DECK, Sheer-strake in Well..... <i>Clear of Prom. OK</i>	<i>84</i>	<i>.96</i>	<i>.58</i>	<i>.60</i>		"	"	"	"	<i>1 1/8</i>	<i>5</i>	"
UPPER DECK, Sheer-strake in Bridge way of Prom. OK		<i>.82</i>				"	"	"	"	<i>1</i>	<i>4</i>	"
STRAKE BELOW SHEER-strake in Wells..... <i>Clear of Prom. OK</i>	<i>.70</i>	<i>.80</i>	<i>.58</i>	<i>.58</i>		"	"	"	"	"	"	"
STRAKE BELOW SHEER-strake in Bridge way of Prom. OK		<i>.82</i>				"	"	"	"	"	"	"
FORE-CASTLE PLATING.....		<i>.76</i>				<i>Double</i>	<i>1</i>	<i>3-9</i>	<i>Four</i>	<i>1</i>	<i>4</i>	<i>Lapped</i>
BRIDGE SIDE PLATING....			<i>.62</i>			"	<i>1 1/8</i>	<i>3 3/8</i>	<i>Three</i>	<i>7/8</i>	<i>3 1/8</i>	"

WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel—
or Husband
 Extending to Upper Deck (Sec. 3 c) *Yes*
 " Deck next below *One*
 As per Rule *app^d* *Nine*
2

FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
SCANTLING				
STEM	Roller Steel Bar	1 1/2 x 3 1/2	Beeston & Co.	
STERN FRAME	Propeller Post	Steel	Steel	
	Rudder	Casting	18" x 24" x 4" Company	
			Hall's, Scotland	
RUDDER—A x D		20 x 3		
Speed of Vessel		21 K		
RUDDER mainpiece at head	Steel	24 1/2	Dumystron	
" " heel	Forging	16	Forge	
" how constructed	Forged frame	shrink on arms		
" double or single plate		Single		
" coupling, vertical or horizontal		Horizontal		

		Plating Thickness.	STIFFENERS.				
			VERTICAL.		HORIZONTAL.		
			Scantlings.	Spacing.	Scantlings.	Spacing.	
MIDSHIP BULKHEAD.	Upper tween decks	28	27	5x3	22	34	
"	Second	32	6x3	31	34		
"	Third	34	8x3	42	34		
"	Holds	49	46	12x35	34		
COLLISION	(in Hold)	55	34	12x35	49	20	15' 5" long Bdr beam
AFTER PEAK		50	30	12x35	55	24	11' 0" long Bdr deck

Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) *(Open Hearth Process)*
STEEL. *Colville, South Durham Steel & Iron Coy. Cargo Ship Iron Co. Lankashire Steel Coy.*
Beardmore, Pease & Partners, Steel Coy of Scotland, Consett, Dimploph, Thurst. Keen & Riddlefields
 Has the Steel been tested as required by the Rules? *Yes.*

* Plating increased in thickness in way of forward hold from keel to turn of bilge (see shell expansion)

EQUIPMENT No. 93440.31

LETTER T+

ANCHORS.

10 JUN 1930

Number of Certificate.	Anchor.	WEIGHT, EX. STOCK.	WEIGHT OF STOCK.	TEST, PER CERTIFICATE.	WEIGHT REQUIRED BY TABLE 53.	Description of Anchor.	Makers.	Where and when tested and Superintendent.
91114	1st Bower	146 1 7	Stockless	83 2 3 0		Dreadnought	Taylor & Sons	Netherthorpe 7/1/29 Green
91083	2nd "	145 3 20	do	82 14 2 0	420	do	do	do 20/8/29 do
91062	3rd "	145 0 15	do	82 14 2 0		do	do	do 28/8/29 do
	Collective weight.	437 1 14			420			
91115	Stream	61 0 21	do	49 0 2 14	58	do	do	do 7/7/29 do
91318	Kedge	24 0 24	6 0 18	24 0 3 14		do	do	do 15/10/29 do

CHAIN CABLES.

HAWERS AND WARPS.

Number of Certificate.	Length and size supplied.	Test per Certificate.	WEIGHT OF CHAIN CABLE.	Length and size per Table 53.	Description.	Makers of Cables.	Where and when tested, and Superintendent.	Material.	Length and size supplied.	Breaking Test of Steel Wire.	Length and size per Table 53.
	Length. Diam.	Stat. Break. ing.	Supplied. Per Rule.	Length. Diam.					Length. Cir.	Test of Steel Wire.	Length. Cir.
85643	165 3 1/2	72 1/2	991.2.21		Steel	Angley & Sons	Netherthorpe 8/1/29	TOWLINE	150 8	165 1/2	150 8
85657	165 do	do	993.0.1	1910 330 3 1/2	do	do	do 17/12/29	HAWERS & WARPS	4-120 4	48 3/4	4-120 4
85718	30 do	do	182.0.21		do	do	do do do		2-120 3 1/2	36 1/2	2-120 3 1/2
Stream	150 7	125 1/2		150 7	Steel wire	Angley & Sons			2-120 3	25 1/2	2-120 3
Steel Wire									4-90 9	4-90 9	4-90 9
									2-120 8	2-120 8	2-120 8

Steering Gear, *Electric* by Brown Bros, Electro. HydraulicSteering Gear, *Hand*

Boats 26

Steering Chains, Size and Test

none

Windlass *Electric* Napier Bros LtdCeiling in Holds, thickness and material *2 1/2" pine, under hatches oil cargo*Cargo Hatchways, (Upper Deck) *Coaming 30 x 54 and 44* Thickness of Hatches *3"*Size of No. 1 Hatchway (Forward) *15' 9" x 14'* No. 2 *17' 9" x 20'* No. 3 *16' 3" x 20'* No. 4 *16' 3" x 12'* No. 5 *16' 3" x 12'* No. 6 *16' 3" x 12'*Number of Shifting Beams and/or Fore and Afters *2 Shifting beams in each hatch. No fore and afters*

Builder's Signature

Director

GENERAL DECLARATION. It should be stated (a) whether the vessel is fitted for the carriage and burning of oil used as fuel *yes* (b) whether the vessel, not being an oil tanker, is fitted for carrying oil as cargo *no* The positions in which oil is carried as fuel or cargo should be indicated, together with the flash point.

Vessel has been built in accordance with approved plans, the Secretary's letters of various dates, and in general conformity with the Rules for the class contemplated. The materials and workmanship are good. Provision has been made for the carriage of oil fuel (F.P. above 50°) in properly constructed tanks situated abreast and forward of boiler rooms, and in double bottom compartments in way of and forward of boiler rooms. These tanks have been tested under pressure, as required by the Rules, with satisfactory results, and the Society's Rules for the carriage of oil fuel have been complied with, where they apply. The remaining double bottom tanks, the deep tanks abreast of the engine space and tunnels, and the peak tanks have been satisfactorily tested under water pressure. The weather decks and the bulkheads and tunnels have been hose tested with good results. The freeboards have been marked on the ship's sides, verified, and cut in. W.T. doors hose tested.

The amount of Entry Fee £ 12 : 0 : 0

Fees applied for,

Special Survey Fee.... £ 650 : 8 : 0

Received by me,

Travelling Expenses, if any £ 12 : 10 : 0

State whether the Vessel has been built under Special Survey

yes

Certificate to be sent to *Glasgow*Date of issue *17/7/30*

I am of opinion the Vessel should be Classed *100 A.1* "with freeboard" corresponding to a draft of *30 ft. extreme*. Fitted for oil fuel *6-30 F.P. above 150° F.*

Signature

George Nicol

Surveyor to Lloyd's Register of Shipping.

Committee's Minute *GLASGOW 17 JUN 1930*Character assigned *100 A.1*

with freeboard

6.30.

Lloyd's A.C.P.

+ L.M.C. 6.30.

Fitted for oil fuel 6.30 F.P. above 150° F.



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GENERAL REMARKS—(The Surveyor should state the Number of Report and Name of any Sister Vessel. Plans showing Vessel as built should be forwarded and a List of the Plans should be embodied.)

- The following plans forwarded
- ✓ Midship Section - Vessel as approved
 - do do as built
 - ✓ Profile (2 plans)
 - ✓ Bulkhead plan
 - ✓ Rudder, Stern frame and Ship Brackets
 - ✓ Alternative method of fitting Rudder plate
 - ✓ Detail of Stern
 - ✓ After End Framing; Frame Scuppers
 - ✓ Stern framing
 - ✓ Tank top plating in Machinery Space and aft
 - ✓ Plan showing watertight flats and oil bunker covers
 - ✓ Lower decks and Tank top: upper, shelter and top decks (2 plans)
 - ✓ Double bottom girders, in Machinery space and aft
 - ✓ Typical detail of Intercoastal girder
 - ✓ Additional Stiffening forward of $\frac{1}{15}$ length
 - ✓ Porting arrangements and fore end framing
 - ✓ Details of frame brackets
 - ✓ Shell expansion
 - ✓ Pillaring Arrangements, (14 plans), Profile; Hold and Orlop decks: lower deck
 - ✓ Main deck: upper deck: Shelter deck: Bridge deck: Promenade deck:
 - ✓ Arrangement in E.T.B. Rooms: Typical Sections: Proposed construction of pillars at Centre line about frames 79 and 85: Pillaring in way of Cargo hatches: Superstructures and pillaring arrangements above promenade deck. Stiffening under pillar keels on Tank top.
 - ✓ Testing of Watertight Compartments - Sheets 1 and 2
 - ✓ General Pumping Arrangement
 - ✓ Alasks: Arrangement of Air and overflow pipes from deep oil fuel bunkers.
 - ✓ Cargo Hatches: Alteration to hatch beams (2 plans)
 - ✓ After Funnel Casing (4 plans)
 - ✓ Wellin, McEachlan davits is also sketch showing detail of knuckle at top end of trackway
 - ✓ Steering gear, Brown Bros.
 - ✓ Plan of Erections for Computation of Equipment Manual
 - ✓ Insulated Comp chambers on lower deck: Arrangement of Scuppers from insulated spaces and W.T. flats: Arrangement of Refrigerating Machinery and insulated chamber in way of same: Position of Temperature Pipes (14 plans)
- The following reports forwarded:- Rudder frame: Stern Casting: Tiller: Keel piece and Stern piece. 2 Boss End Castings

Particulars of Drop Test of Cast Steel Anchors, viz:—
Weight, Surveyor's Initials, Number of Certificate, Date of Test.

1st Bower.

2nd "

3rd "

Anchor heads forged open hearth Ingot Steel of weights to Rule

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop Combined ft., R.Q.D. ft., Bridge and Forecastle 578 ft.
(in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated

No. and Material of Decks (this information is to be given as it should appear in the Register Book) 4 Dks (Stk) and Shelter dk (Stk plw.s)

Official No. 161430; Signal Letters ✓

Is bottom of Vessel coated with cement pellets ^{open of oil complete} if not give

particulars of composition Base steel in way of oil compartments

PARTICULARS OF WATER BALLAST.—

Where Fitted.	*Length. Feet.	Water Capacity. Tons.	Where Fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	178.75	801	Fore peak tank,	34.5	148.5
Double bottom, under Engines and Boilers,	227.5	2004	After peak tank,	30.0	219.5
Double bottom, if under Engines only,			Deep tank, aft,		
Double bottom, if under Boilers only,	134.0	468	Deep tank, forward,		
Double bottom, forward,			Other tanks, if fitted,	139.75	2006.5
			(If necessary, furnish further information by sketch.)		

* The wells are not to be included in the lengths of the tanks.

Order for Special Survey No. 6945

Date 1. 10. 28

Dates of Surveys held while building

1928 Aug 3. 17. 29. Sept 1. 19. 27. 28. 29. Oct 1. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. Nov. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. Dec 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. Jan 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. Feb 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. Mar 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. Apr 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. May 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. Jun 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. Jul 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. Aug 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. Sep 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. Oct 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. Nov 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. Dec 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31.