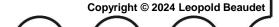


## Constant Plate Flaws on Elizabethan Stamps

Leopold Beaudet

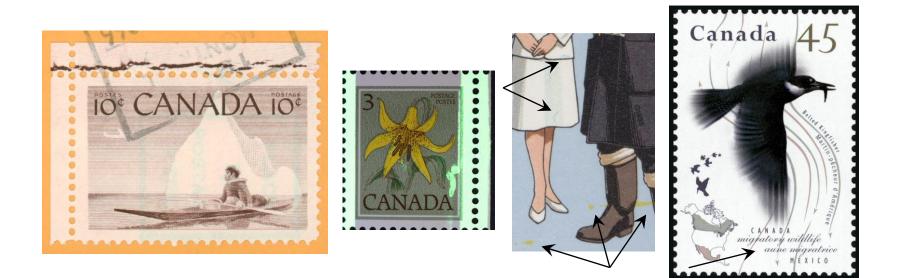


## Outline

- Introduction
- Printing processes and printers
- Engraving
- Engraving and photogravure
- Lithography with cameras
- Lithography with computers



# ) Introduction



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## Why the varieties were selected

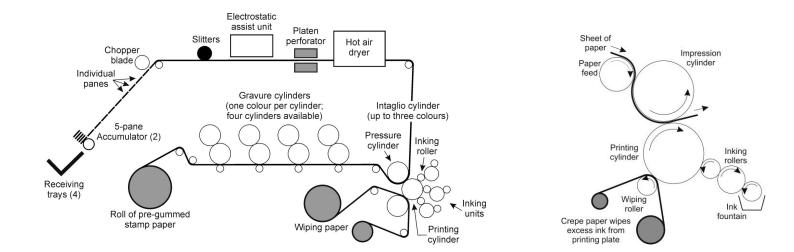
 Illustrate the types of constant plate varieties found on different printing processes

- Engraving
- Photogravure
- Lithography
- How evolution of printing processes affected varieties
- The chosen varieties tell a story
  - Not just "flyspecks"
- Focus on Elizabethan stamps
  - Mostly from 1953 to 2000

## References

- Leopold Beaudet, "Canadian Stamp Varieties", column in *Canadian Philatelist*, 1980-1986.
- Leopold Beaudet, My Favourite Elizabethan Varieties, online exhibit, https://bnaps.org/ore/ExhibitDisplay.php?Ex=ORE&Id=59
- Leopold Beaudet, "Centennial Stamp Production", published in the D. Robin Harris catalogue, *Centennial Definitive Series 1967-1973*, 2000.
- Canada Post Office, Something Canadian (video on the production of the 1970 6¢ Henry Kelsey commemorative).
- Canada Post Office, *More Than Just a Pretty Face*, National Film Board, 1974. (video describing the lithographic, engraving, and photogravure printing processes).
- D. Robin Harris, set of 7 specialized catalogues covering Canadian definitives.
- D. Robin Harris, The Unitrade Specialized Catalogue of Canadian Stamps.
- D. Robin Harris, editor, *Corgi Times*, newsletter of the BNAPS Elizabethan II Study Group.
- Douglas and Mary Patrick, Canada's Postage Stamps, McClelland and Stewart Ltd., 1964.
- Swedish Post Office, A Stamp Is Made, 1985 (describes the production of Swedish stamps).

## **Printing processes and printers**



## Printing processes (1953 – today)

### Engraving (aka intaglio, recess)

- Sheet-fed press
  - "Traditional"
  - Plastic mould
- Web-fed press
- Photogravure (aka gravure)
  - Sheet-fed press
  - Web-fed press
- Offset lithography
  - Mesh halftone screen (camera based)
  - Stochastic halftone screen (computer generated)

- Computer to plate (CTP)
- Embossing
- Foil stamping
- Typography
- Flexography
- "MotionPrint" (Lenticular technology)

## Stamp printers (1953 – today)

How many printers were there since 1953?

What printing processes did they use?



# ) Stamp printers (1953 – today)

Printer	Period	
1 Canadian Bank Note Co. (CBN)	Pre 1953 – 2022	
2 British American Bank Note Co. (BABN) BA Bank Note Inc.	1968 – 1990 + pre-1953	$\bigcirc$ = Printed
3 Ashton-Potter Ltd. Ashton-Potter Canada Ltd. Ashton-Potter (USA) Ltd.	1970 – 1993 1995 – 2003 2002 – 2003, 2006	more than 5 issues
4 Imprimerie des Timbres-poste France	1984	
5 Leigh-Mardon Pty, Ltd. (Australia)	1994 – 1995	
6 Gravure Choquet Inc. (in collaboration with other printers)	1998 – 2014	
7 Avery Dennison Corp.	1998	
8 Lowe-Martin	2002 – Current	
9 Post Denmark Stamps	2004	
10 Outer Aspect (New Zealand)	2009, 2016	
11 Sweden Post Stamps	2010	(
12 Colour Innovations	2016 – Current	Copyright © 2024 Leopold Beau
		」 <u>↓</u> <u>∖</u> <u>↓</u>

- Canadian Bank Note Co. (CBN)
  - Pre 1953 2022



Process	Notes
Engraving	Die – Transfer roll – Plate Die – Transfer roll – Master plate – Plastic mould – Working plate
Lithography	Mesh halftone screen Stochastic halftone screen
Foil stamping	
Photogravure	Just one stamp (1969 50¢ Suzor-Coté)

- British American Bank Note Co. (BABN)
- BA Bank Note Inc.
  - 1968 1990 + pre-1953
  - Last issues
    - Goebel web-fed press
      - 1989 50¢ booklet with 38¢ Parliament stamp
    - Sheet-fed press
      - 1989-1990 \$1.00, \$2.00, \$5.00 Architecture



Process	Notes	
Engraving	Sheet-fed press Goebel web-fed press	
Lithography	Mesh halftone screen	
Photogravure	Goebel web-fed press	
	Copyright © 2024 Leopold	Beaudet

- Ashton-Potter Ltd.
  - 1970 1993

- Ashton-Potter (USA) Ltd.
  - 2002 2003, 2006

	otter Canada Ltd.	ASHTON POTTER LIMITED TORONTO Design: Alma Duncan: Dessin
• 1995 –	2003	
Process	Notes	
Lithography	Mesh halftone screen Sheet-fed press Web-fed press (coils)	Automin Automine Canada 7 Automin Automine Canada 7
Embossing		Jac A Jac A
Foil stamping		
Typography	1996 45¢ Olympic Gold Medalists	Autumn Automne Canada 7 Canada 7
Flexography	1998 45¢ Stylized Maple Leaf – roll of 10	00
		Copyright © 2024 Leopold Beaude

- Imprimerie des Timbres-poste France
  - 1984
  - One stamp (joint issue)
    - 1984 32¢ 450th anniversary Jacques Cartier's first voyage to Canada



Process	Notes
Engraving	Web-fed press
Photogravure	Web-fed press

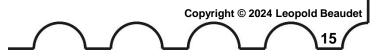
- Leigh-Mardon Pty Ltd. (Australia)
  - 1994 1995 (seven issues)
    - 1994 43¢ Flag definitive
    - 1994 43¢ Greetings booklet
    - 1994 88¢ Masterpieces of Canadian Art 7
    - 1994 43¢ x 4, 50¢, 88¢ XV Commonwealth Games
    - 1994 43¢ x 5 UN International Year of the Family
    - 1994 \$1.00, \$2.00 Architecture
    - 1995 45¢ Flag definitive

Process	Notes
Engraving	
Lithography	Mesh halftone screen
Foil stamping	



- Gravure Choquet Inc. (in collaboration with other printers)
  - 1998 2014

Process	Notes
Foil stamping	



- Avery Dennison Corp.
  - 1998
  - Two stamps
    - 45¢ and 46¢ Stylized Maple Leaf
      - Self-adhesive ATM pane of 18

Process	Notes
Photogravure	



- Lowe-Martin
  - 2002 Current
  - First issue
    - 2002 4 x 48¢ Tulips



Process	Notes	CANADA P
Lithography	Stochastic halftone screen Sheet-fed press Web-fed press (coils)	CANADA P
Embossing		
Foil stamping		

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### Post Denmark Stamps

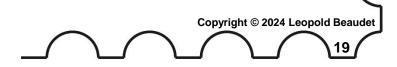
- 2004
- One issue (joint issue)
  - 2004 49¢ and \$1.40 Otto Sverdrup

Process	Notes
Engraving	
Lithography	



- Outer Aspect (New Zealand)
  - 2009, 2016
  - Two issues
    - 2009 \$9.00 souvenir sheet Montreal Canadiens 100th anniversary
    - 2016 \$10.00 souvenir sheet 50th anniversary of Star Trek TV series

Process	Notes
"MotionPrint"	Lenticular technology – simulates motion in 3D



- Sweden Post Stamps
  - 2010
  - One issue (joint issue)
    - 2010 2 x 57¢ Marine Life

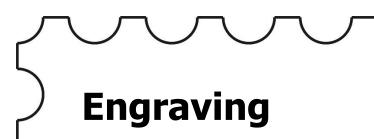
Process	Notes
Engraving	
Lithography	

- Colour Innovations
  - 2016 Current
  - First issue



2016 Lunar New Year P stamp, \$2.50 (Monkey), \$2.50 (Ram)

Process	Notes
Lithography	Stochastic halftone screen
Embossing	
Foil stamping	

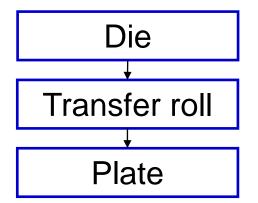




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## Making an engraved plate



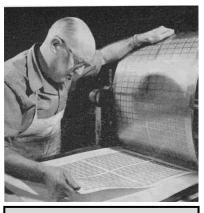
- 1. Engraver produces a die
- 2. Siderographer transfers design from die to transfer roll
  - Transfer roll typically has several reliefs
- 3. Siderographer transfers design from relief on transfer roll to plate
  - 400/600 subjects on plate for Elizabethan small-size stamps



Die for 1970 6¢ Henry Kelsey stamp, engraved by George Gundersen. [Source: Something Canadian]



Transfer roll above intaglio cylinder. [Source: A Stamp Is Made]



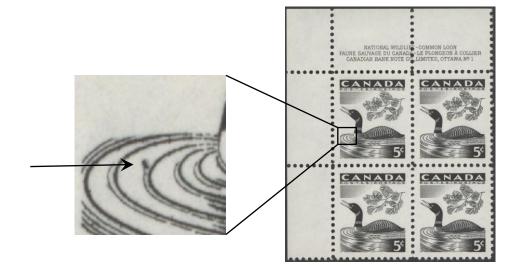
Curved plate of 4 panes [Source: Canada's Postage Stamps]

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### Ref:

- 1. Canada Post Office, Something Canadian (video on 6¢ Henry Kelsey commemorative).
- 2. Swedish Post Office, A Stamp Is Made, 1985 (describes the production of Swedish stamps).
- 3. Douglas and Mary Patrick, Canada's Postage Stamps, McClelland and Stewart Ltd., 1964.

## Engraving – Typical minor plate flaw



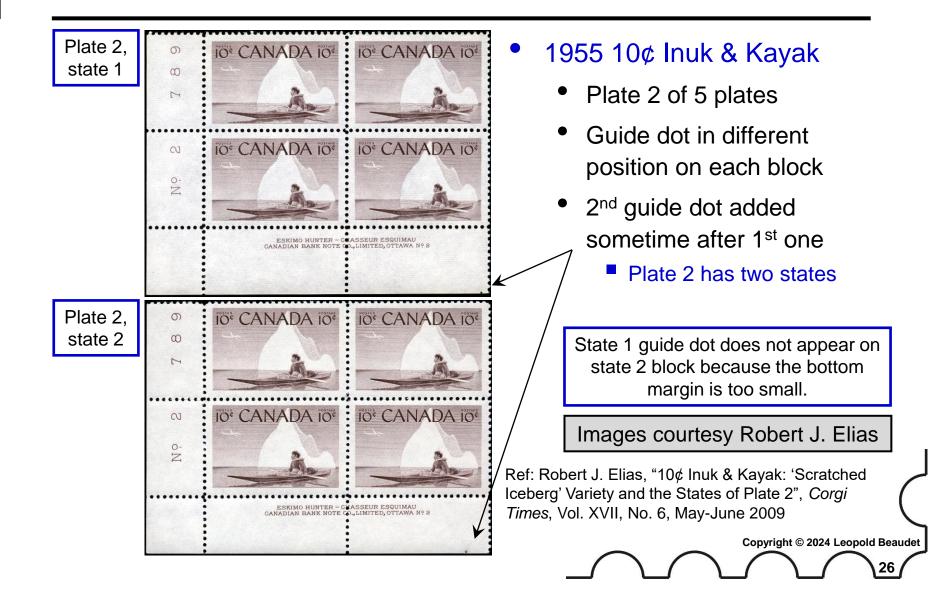
1957 5¢ Wildlife – Loon "Food for loon" Plate 1, UL pane, stamp 1/1

## Engraving – deliberate plate markings



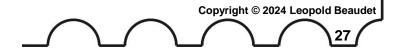


## **Engraving – Plate with two states**





Can a constant plate flaw occur on only part of the printing?



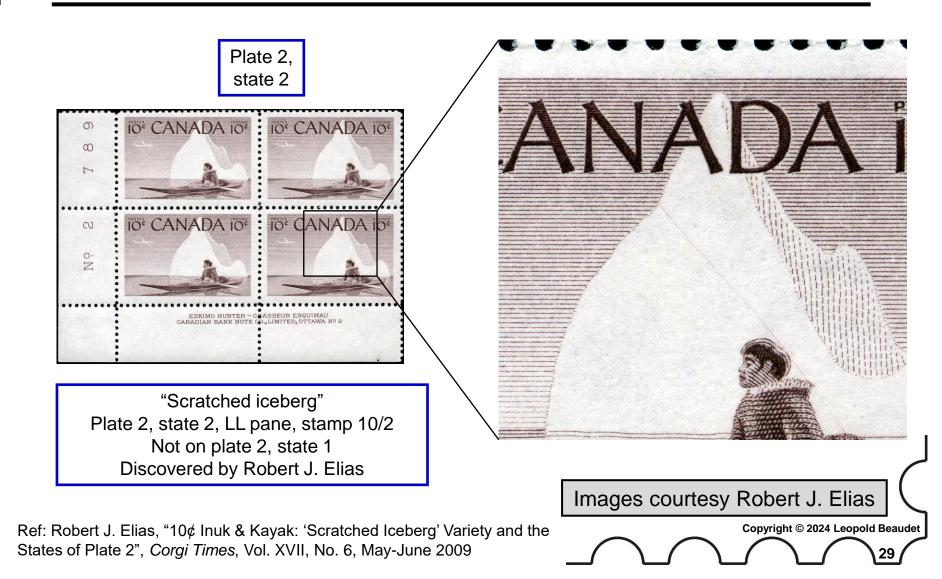


Can a constant plate flaw occur on only part of the printing?

Yes, it can!



## Engraving – Plate with two states



## 1954 5¢ Wilding – Cracked plate





Plate crack reported only on precancelled stamps

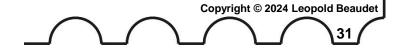
Plate unknown

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# ) Engraving

Can a "constant" plate flaw change as the plate is used in production?





Can a "constant" plate flaw change as the plate is used in production?

Yes, it can!

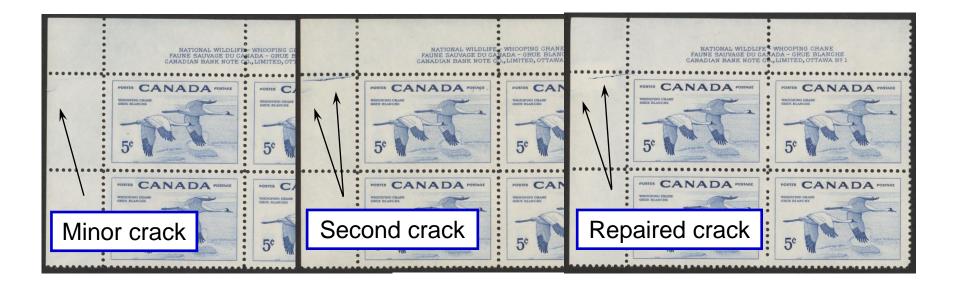


## **Progressive plate cracks**



1954 4¢ Wilding, plate 1 – blocks showing the crack are scarce
1954 4¢ Wilding, UR corner – plate unknown
1955 10¢ Inuk & Kayak – plate unknown, postmarked 21 Oct.1966
1956 20¢ Paper – plate unknown, postmarked 14 Mar. 1963
Given their scarcity, these cracks probably developed sometime after the plates were put in production, and may have led to the plates' end-of-life.

## **Progressive plate crack**

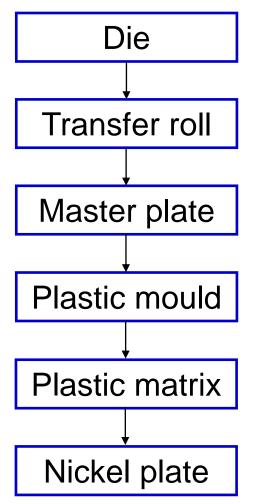


1955 5¢ Wildlife – Whooping Crane Plate crack, 3 states

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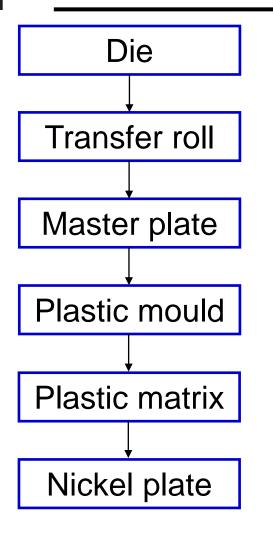
## **CBN plastic mould process**



- 1. Engraver produces a die
- 2. Siderographer transfers design from die to transfer roll
- 3. Siderographer produces master plate using relief on transfer roll
  - Size of master plate = 1 pane of stamps
- 4. Plastic moulds produced from master plate
  - Number of moulds = number of panes in a sheet
- 5. Moulds joined together to form plastic matrix
  - Matrix size = size of a sheet
- 6. Nickel plate produced from plastic matrix by electroplating
  - Multiple nickel plates produced from a single plastic matrix
- 7. Nickel plate chromium-plated and curved to fit on printing cylinder
- Reduces the siderographer's work, especially if multiple plates are produced

Ref: Leopold Beaudet, "Centennial Stamp Production", published in the D. Robin Harris catalogue, *Centennial Definitive Series 1967-1973*, 2000.

## **CBN plastic mould process**

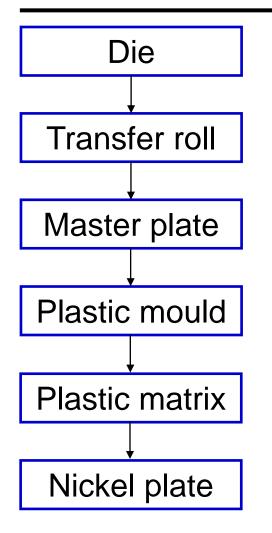


- CBN introduced the process around 1966
- Stamps printed by plastic mould process
  - 1966 Christmas issue
  - All the Centennial definitives except
    - 3¢-5¢ coils
    - 5¢ cello-pak miniature pane
      - 4¢ cello-pak miniature pane may have been produced from a 4¢ sheet plate

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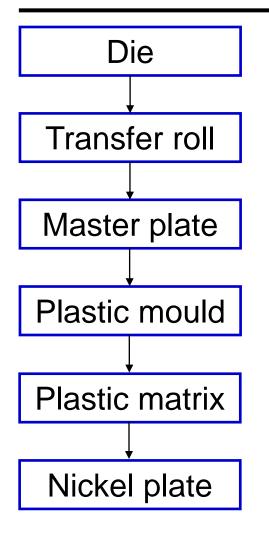
36

- 50¢ and \$1.00 sheet stamps
- Not known whether it was used for booklet stamps
- Etc.



Can the same plate flaw occur on more than one nickel plate?

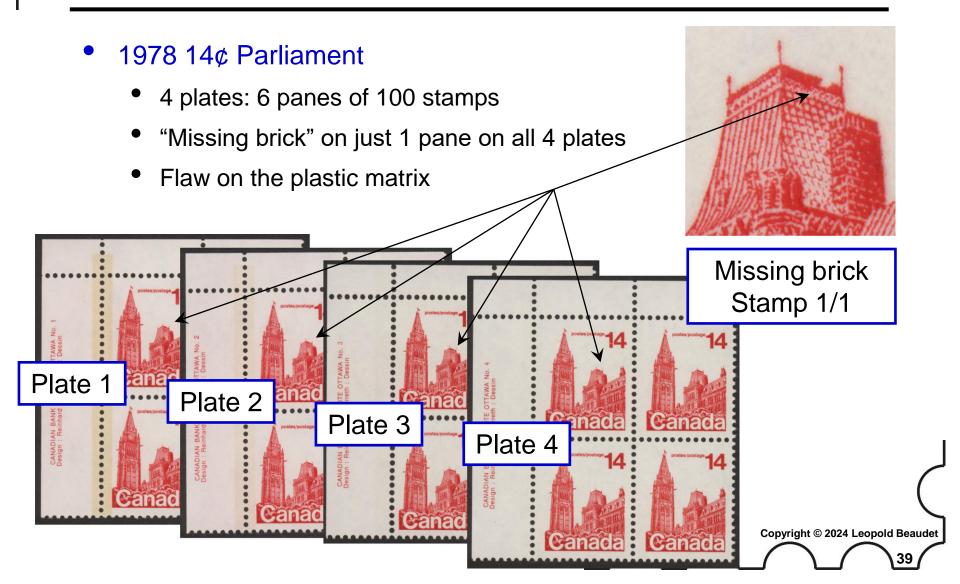
Copyright © 2024 Leopold Beaudet

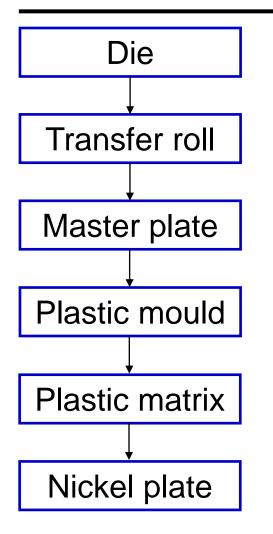


Can the same plate flaw occur on more than one nickel plate?

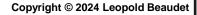
Yes, it can!

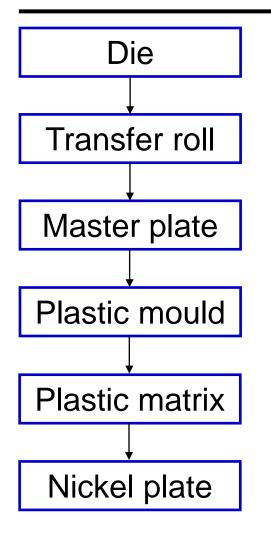
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Can the same plate flaw occur on more than one stamp on the nickel plate?

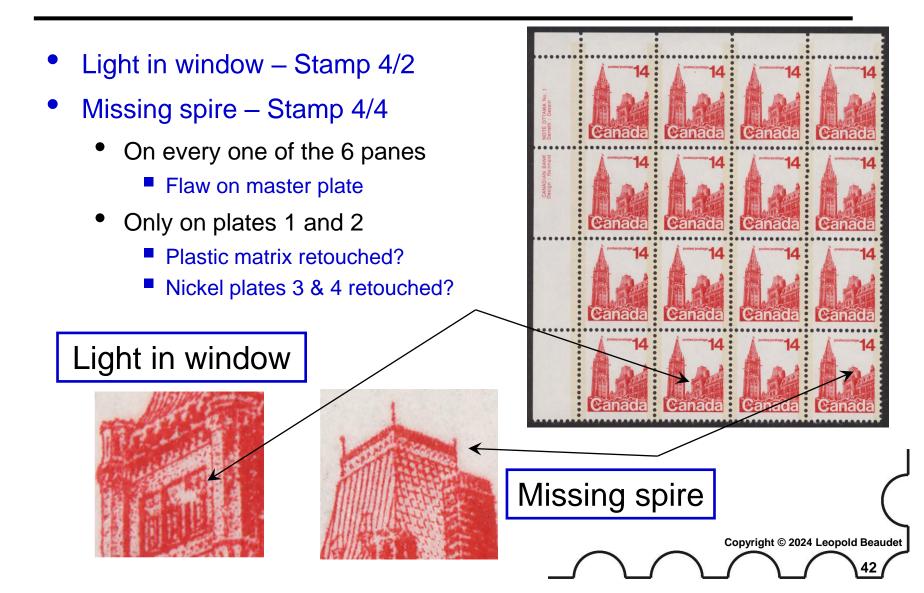




Can the same plate flaw occur on more than one stamp on the nickel plate?

Yes, it can!

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# **Engraved + lithography**





Black lines indicate the tagging bars

- Winnipeg and General tagging printed by lithography on separate press
- 1963 Cameo 2¢ plate: 3 rows by 2 columns
  - Strip of 20 with "tag stub" in top pane margin
  - Pane must come from row 2 or 3 of the sheet
- 1977 Environment 2¢ plates: 2 rows by 2 columns
  - Block of 4 with "tag stub" in bottom pane margin

Pane must come from row 1 of the sheet
Ref: Leopold Beaudet, "The Importance of Having Cameo
Selvedge", Corgi Times, Vol. XIII, No. 6, May-June 2005

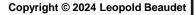
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#### **CBN "Plastic flow" variety**

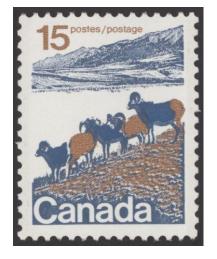
- Transient inking variety
- Reported on 8¢ Alaska Highway, 15¢, 25¢
- Also reported on 6¢ black Transportation, but
  - Reported on Die II, printed by BABN
  - BABN did not use plastic mould process







#### **Engraving & photogravure**

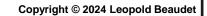






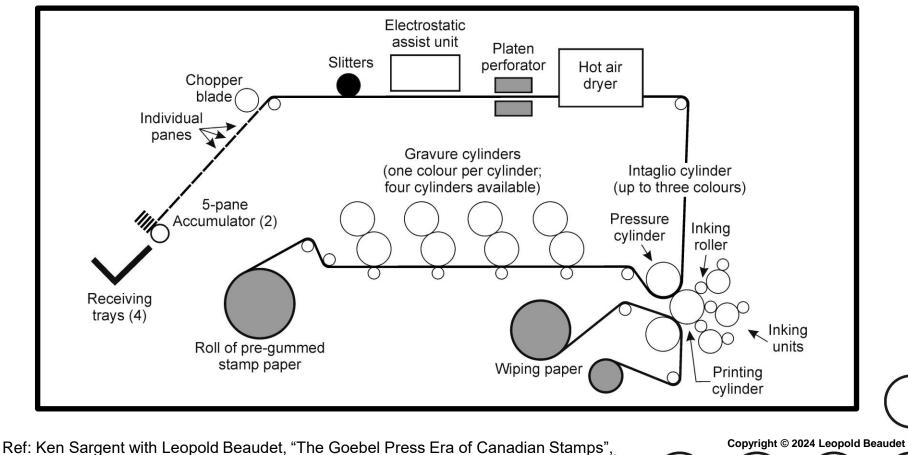






# **BABN Goebel web-fed press**

#### Installed in 1966



https://bnaps.org/ore/Sargent-GoebelPress/Sargent-GoebelPress\_1.htm

#### **BABN Goebel web-fed press**

- Up to three engraved colours
  - Printed from a single engraved cylinder
  - Uses "selective inking process"
  - Routed rubber rollers pick up ink for specific areas of cylinder
- Up to four photogravure colours
  - One "colour" for tagging
  - One "colour" for precancel
- "Cylinder", not "plate"
  - Stamp design is impressed directly on a solid cylinder
- Perforates web in-line
- Slits and guillotines web into individual panes
  - Multi-pane sheets do not exist

Ref: Swedish Post Office, A Stamp Is Made, 1985 (describes the production of Swedish stamps)



Transfer roll above intaglio cylinder. [Source: A Stamp Is Made]

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#### "Die" varieties – 1972 15¢ Landscape

 1-colour engraving (slate) + 2-colour photogravure (blue, brown) + tagging





#### Type I

• Light shading in mountain

Three distinguishable printings Engraved cylinder 1: perf 12.5 x 12.0

- 1. General tag migrating OP4
- 2. General tag non-migrating OP2

3. Winnipeg tag

#### Type II

- Strong shading in mountain
- New blue photogravure cylinder

Two distinguishable printings

- 1. Field stock: perf 12.5 x 12.0
- 2. Engraved cylinder 2: perf 13.3

Ref: Leopold Beaudet, "1972 Landscape Medium Value Reprints", *Corgi Times*, Vol. XXIV, No. 5, Mar.-Apr. 2016.

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#### "Die" varieties – 1972 15¢ Landscape

- Cylinders consist of 3 panes of 100
- Only the engraved cylinder identified in the plate inscription
- Five distinguishable printings
  - Perf 12.5 x 12, Type I, Winnipeg tag
    - Engraved cylinder 1
  - Perf 12.5 x 12, Type I, General tag 3 mm migrating OP4
     Engraved cylinder 1
  - Perf 12.5 x 12, Type I, General tag 3 mm non-migrating OP2
     Engraved cylinder 1
  - Perf 12.5 x 12, Type II, General tag 4 mm
    - Post office stock only (no plate inscriptions)
    - New blue photogravure cylinder
    - New tagging photogravure cylinder
  - Perf 13.3, Type II, General tag 4 mm
    - Engraved cylinder 2



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10¢, 25¢, and 50¢ Landscape definitives saw similar changes

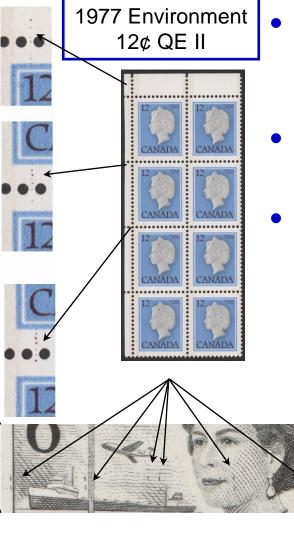
#### Cylinder flaw – 1972 15¢ Landscape

- "Scratch in mountain" flaw on engraved cylinder
  - Row 1, column 10 (1/10)
  - On 1 of the 3 panes on the cylinder
- Exists on
  - Type I: weak shading in mountains, perf 12.5 x 12
  - Type II: strong shading in mountains, perf 12.5 x 12
- Does not exist on:
  - Plate blocks
  - Winnipeg tagged
  - Perf 13.3 stamps
- Flaw on cylinder 1 that developed after the initial printing

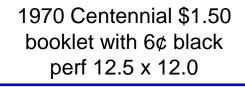


#### **BABN Goebel press – Serial flaws**





- Flaws that repeat around the circumference of the engraved cylinder
- Flaws occur after cylinder is put in production
- Found on 6¢ orange, 7¢, 8¢ Library Centennials, 8¢ Caricature



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#### **BABN Goebel press – Cylinder markings**



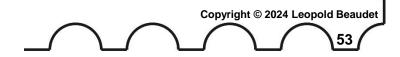
- Rectangular engraved mark in the pane margin
  - Found on sheet stamps issued in 1971-1972
- Cylinders have 6 panes
  - 2 along axis x 3 around circumference
  - Plate inscriptions only on panes from one side of cylinder
    - Marks occur on panes with no inscription

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**BABN Goebel press** 

Can the same constant flaw occur on different stamps?





Can the same constant flaw occur on different stamps?

Yes, it can!





#### Engraved cylinder

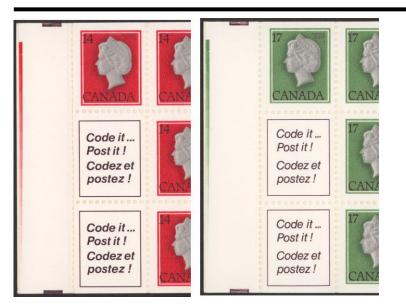
- Purple colour
- 2 panes along axis
- 12 panes around circumference
- Total 24 booklet panes

- Photogravure cylinders
  - Red and grey colours + tagging
  - 2 panes along axis
  - 8 panes around circumference

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Total 16 booklet panes





#### Same photogravure cylinders for both booklets

- Booklets have the same red/green and grey bars in the selvedge
- Booklets have the same cylinder flaws

Ref:

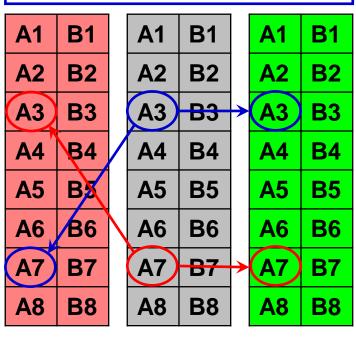
1. Leopold Beaudet, "Canadian Stamp Varieties", *Canadian Philatelist*, several issues between 1980 and 1986.

2. D. Robin Harris, Environment Definitive Series 1977-1987, second edition, 2020.

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- Green cylinder was rotated 180° relative to grey for \$4.25 booklets
  - \$4.25 booklet with the same grey flaws as a \$3.50 booklet will have green flaws corresponding to the \$3.50 booklet halfway around the circumference

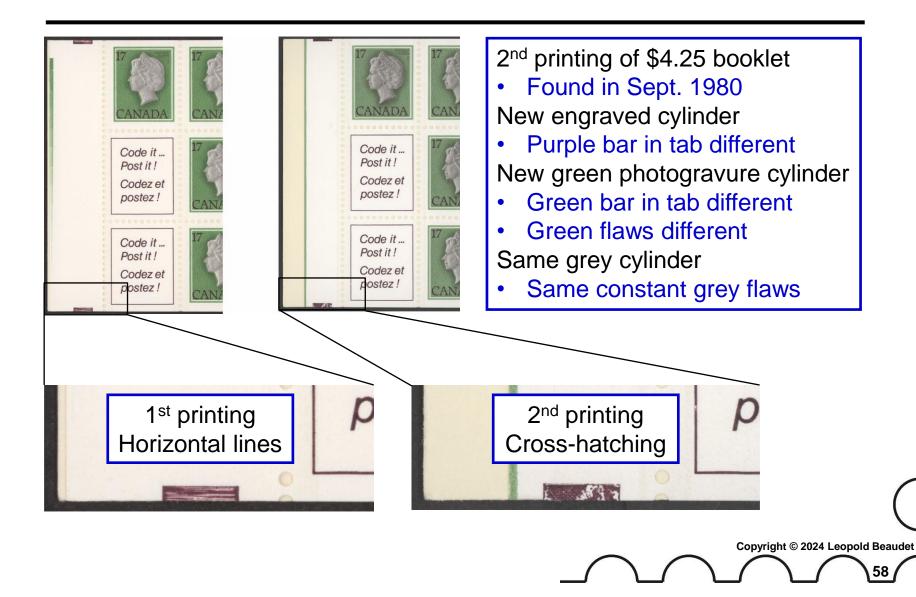
Unrolled photogravure cylinder Ax, Bx = booklet panes



Booklet with A3 grey flaws will have

- \$3.25 booklet: red flaws from A7
- \$4.25 booklet: green flaws from A3

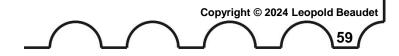
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**BABN Goebel press** 

Can the same cylinder flaw occur on stamps with completely different designs?





#### **BABN Goebel press**

Can the same cylinder flaw occur on stamps with completely different designs?

Yes, it can!



#### Hook tag flaw

- "Hook" in the rightmost tag bar on the pane
- Occurs on 9 different sheet stamps
  - INVERTED on leftmost tagging bar on 1981 "A" definitive
    - Tagging cylinder was "inverted" on the Goebel printing press!

CANADA

Collectionnez les timbres canadiens

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- Occurs on 3 different booklet stamps
- Vertical position varies relative to stamp design



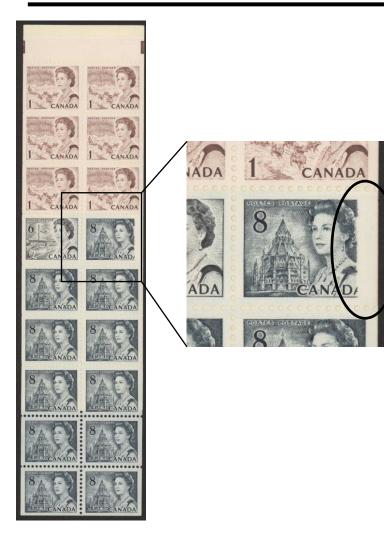


#### Hook tag flaw

- Occurs on the following stamps printed by BABN on Goebel press
  - 1. 1979 1¢ Floral
  - 2. 1979 2¢ Floral
  - 3. 1979 3¢ Floral
  - 4. 1979 5¢ Floral
  - 5. 1979 10¢ Floral
  - 6. 1979 15¢ Floral
  - 7. 1979 17¢ QEII sheet stamp
  - 8. 1979 17¢ QEII stamp from 50¢ booklet
  - 9. 1979 5¢ Parliament stamp from 50¢ booklet
  - 10. 1981 "A" Maple Leaf
    - Hook tag flaw is inverted
  - 11. 1982 30¢ Maple Leaf sheet stamp
  - 12. 1982 30¢ Maple Leaf from 50¢ booklet
    - Hook tag flaw also appears on label below the 30¢ stamp

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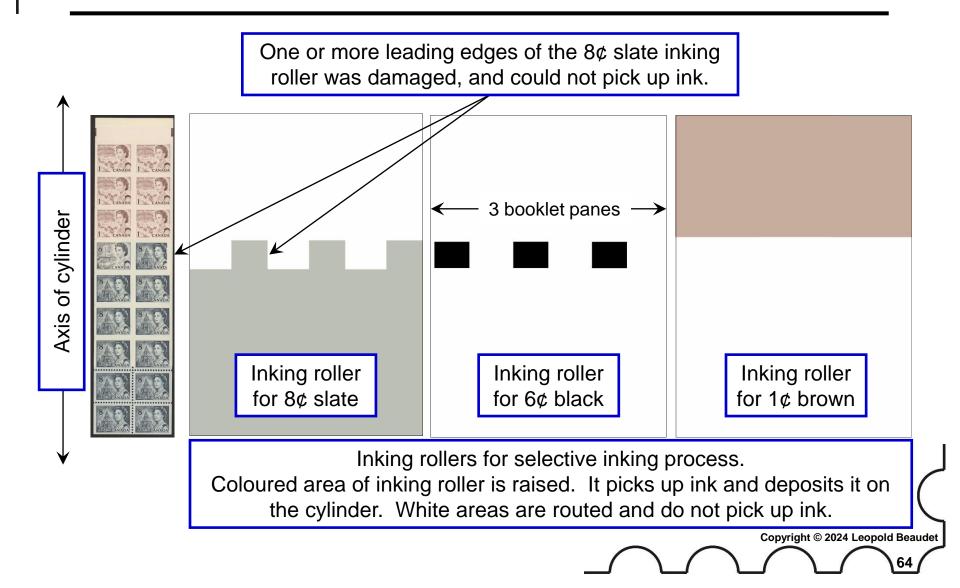
#### **BABN Goebel press – Missing design element**



- 1971 Centennial \$1.00 booklet
  - Inking roller that picks up the ink for the 8¢ slate was damaged at one or more edges bordering the 6¢ black
  - Not a cylinder flaw
  - Same sort of variety occurs on
    - 1974 25¢ Caricature booklet
      - "Missing 1"
    - 1974 8¢ Indian
      - "Missing bird on totem"

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#### **BABN Goebel press – Missing design element**



#### **Selective inking process**

- 1984 32¢ Jacques Cartier
  - Printed by Imprimerie des Timbres-poste France
  - Engraved + photogravure
  - Web-fed press



Scratch flows continuously from brown on stamp 1/2 to green on stamp 2/2.

Brown and green photogravure colours were printed from a single cylinder using a selective inking process.

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# Lithography with cameras











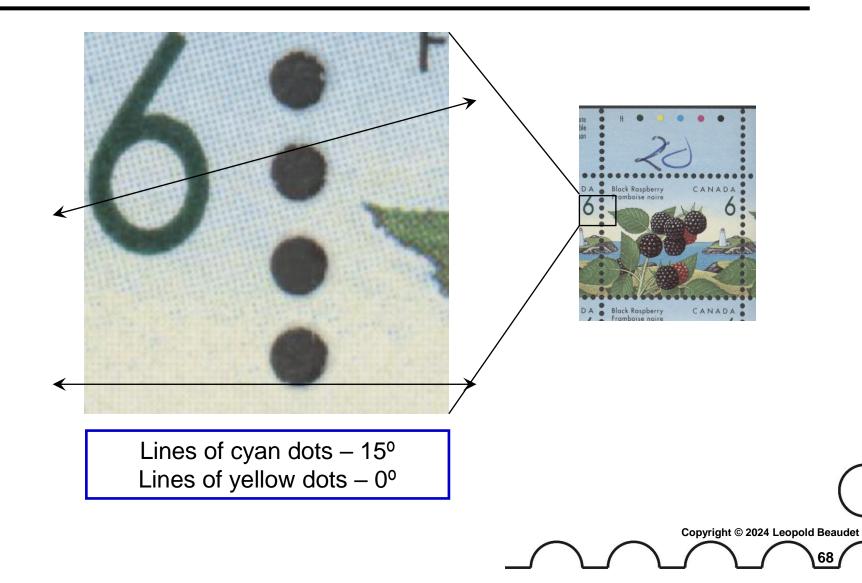
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#### Lithography – Mesh halftone screen

- Stamp design photographed through
  - Colour filters to separate the colours in the design
    - Cyan, magenta, yellow, black (CMYK: K = key = black)
  - Mesh screen to render colours as series of dots of variable size
    - Mesh 200-250 lines per inch
    - Large dots = strong colour
    - Small dots = weak colour
  - Mesh at a different angle for each colour
    - Eliminate Moiré patterns
- Stamp design multiplied on film using step-and-repeat camera

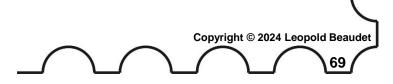


# Mesh halftone screen – 1992 Berry definitives



#### Primary, secondary, tertiary flaws

- Primary flaw
  - Occurs on multiple stamps in the same pane
    - Typically, the same row or column
- Secondary flaw
  - Occurs on one stamp in pane, on multiple panes in the sheet
    - Typically, all of them
- Tertiary flaw
  - Occurs on just one stamp in the entire sheet



#### **Primary flaws**

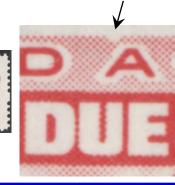
- Flaw appears as step-and-repeat camera replicates one-up image
  - Usually starts at beginning of row/column
  - Usually ends at the end of row/column







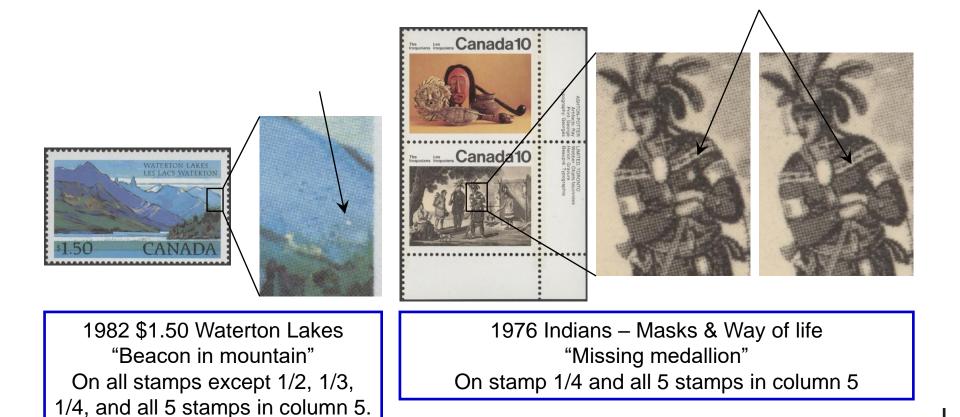




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1972 8¢ Krieghoff Broken door frame Column 4, all 10 stamps 1975 8¢ Calgary Blue dot in "n" Row 4, all 5 stamps 1973-1974 16¢ Postage Due, 3<sup>rd</sup> issue (small size, PVA gum, line perf) "v" in top border Column 9, all 10 stamps

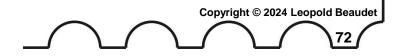
#### **Primary flaws – oddball distribution**



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#### **Primary flaws**

Can the same flaw occur on EVERY stamp of some panes but NO stamp on other panes?



**Primary flaws** 

# Can the same flaw occur on EVERY stamp of some panes but NO stamp on other panes?

#### Yes, it can!



### 1980 17¢ O Canada

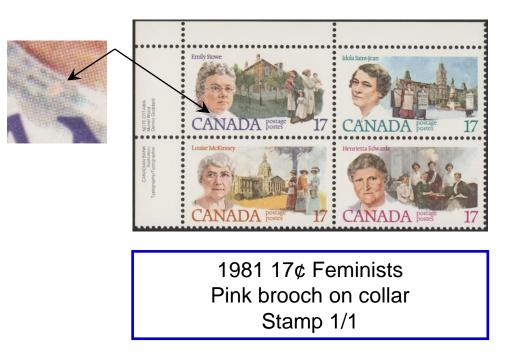


- Every Composers stamp has "white dot in mustache" flaw
- Pane also has faint inscriptions in UL, UR, and LL corners
  - Most panes do not have either variety
  - Ashton-Potter likely used two magenta and two black plates
    - One with the flaws, one without
    - "Primordial" flaws?

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### **Secondary flaws**

- Flaw appears as step-and-repeat camera replicates the pane in the sheet
  - Flaw on one stamp on multiple panes in sheet



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### **Tertiary flaws**

#### • Occurs on one stamp in the sheet



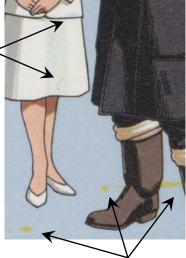


1984 32¢ Lighthouses "Blue, blue sea" – Stamp 5/5 One of the biggest litho flaws known



1983 \$5.00 Point Pelee "Extended sky" – stamp 5/3 Litho flaw, occurs on engraved plates 1, 2, 3





1985 34¢ Royal Canadian Navy "Stitch in jacket" & "Thread on skirt" – secondary flaws "Yellow blobs" – tertiary flaws All on stamp 4/7

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### \$2.00 Banff – 4 colour litho + 1 colour engraved

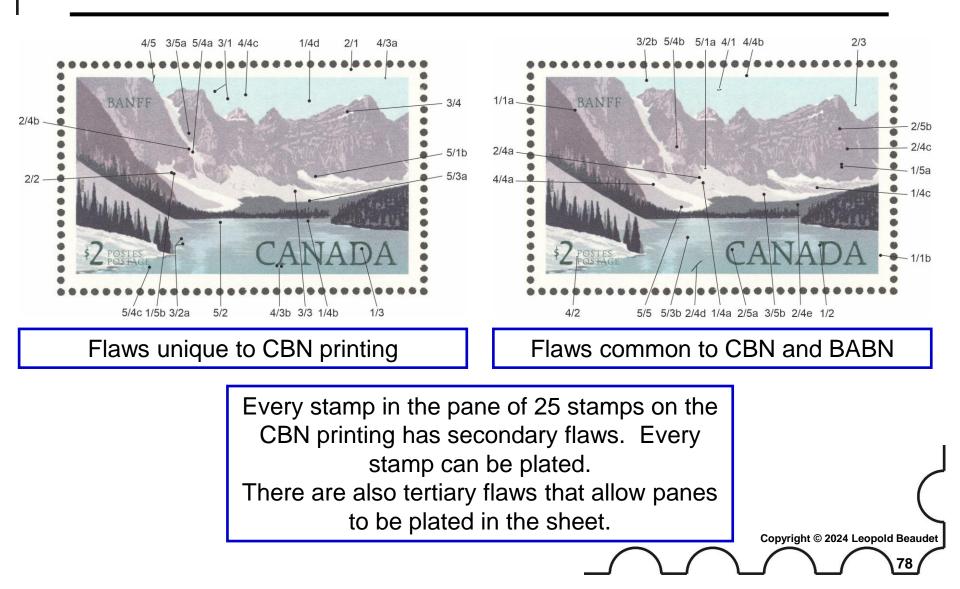


Plates: 6 panes (3 rows x 2 columns) of 25 stamps

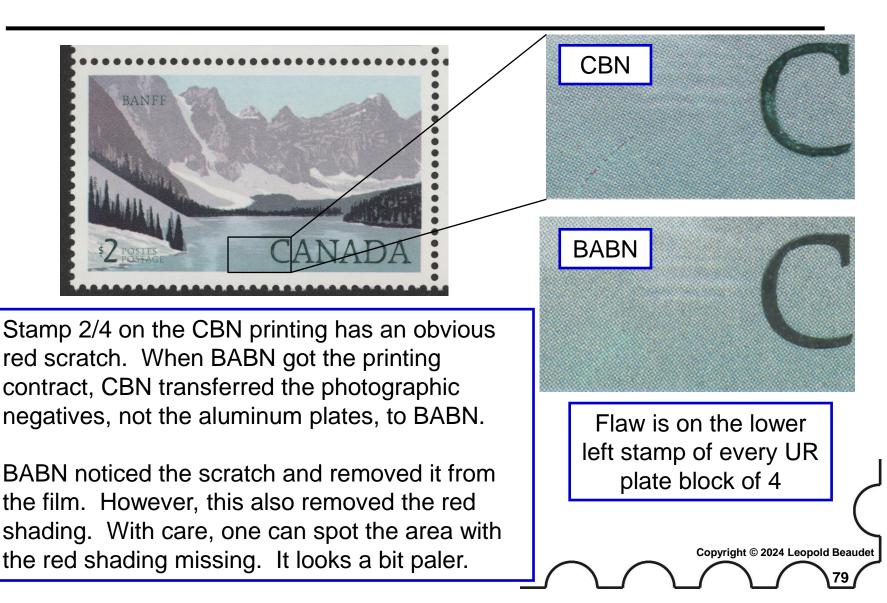
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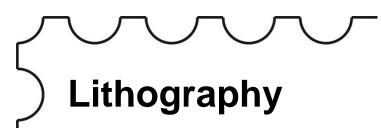
Ref: Leopold Beaudet, "Canadian Stamp Varieties – 16", *Canadian Philatelist*, Vol. 37, No. 4, July-Aug. 1986.

### \$2.00 Banff – 4 colour litho + 1 colour engraved

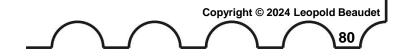


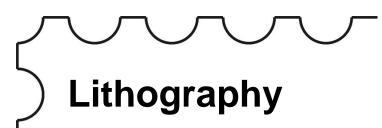
### \$2.00 Banff – 4 colour litho + 1 colour engraved





Can the same flaw occur on stamps with completely different designs from two different printers? Absolutely NO plates in common.





Can the same flaw occur on stamps with completely different designs from two different printers? Absolutely NO plates in common.

Yes, it can!





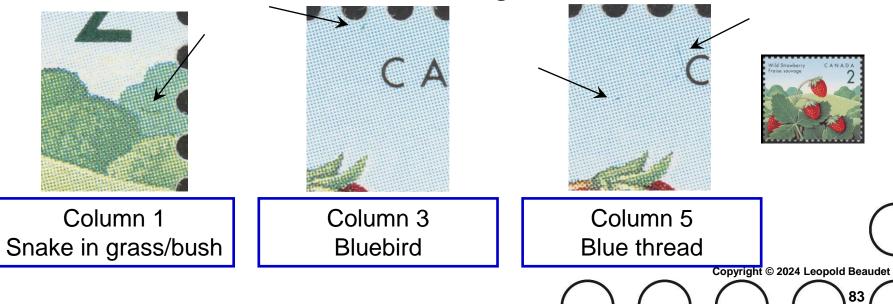
- 1992 low-value Berry definitives
  - 1¢, 2¢, 3¢, 5¢, 6¢, 10¢, 25¢
- 1<sup>st</sup> printing, 1992: Ashton-Potter Ltd., Coated Papers paper
- 2<sup>nd</sup> printing, 1994: Canadian Bank Note Co., Harrison paper
  - All values except 1¢
- 3<sup>rd</sup> printing, 1994: Canadian Bank Note Co., Coated Papers paper
- 4<sup>th</sup> printing, 1995-1997: Ashton-Potter Canada Ltd., Coated Papers paper
  - All values except 6¢

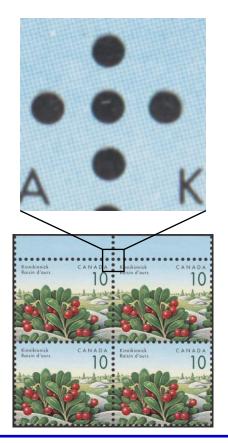
Ref: Robin Harris, "Berry Delicious", Corgi Times, Vol. XVII, No. 3, Nov.-Dec. 2008.

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#### • Extraordinary primary flaws

- 1. Flaws repeat on ALL stamps in specific column EXCEPT top row
- 2. Flaws occur on ALL printings except the first
- 3. Flaws occur on printings from TWO different printers
  - CBN and Ashton-Potter Canada Ltd.
- 4. Flaws occur on MULTIPLE designs!





The blue dots in row 1 bleed to the left and right and into top selvedge

- What is common to the 7 designs?
  - Mesh halftone screen
    - Probable source of the flaws
  - Very wide screen
    - Dots run in continuous lines across all stamps in same row

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- Why no flaws in row 1?
  - Only row where cyan screen bleeds above the top of the stamp design

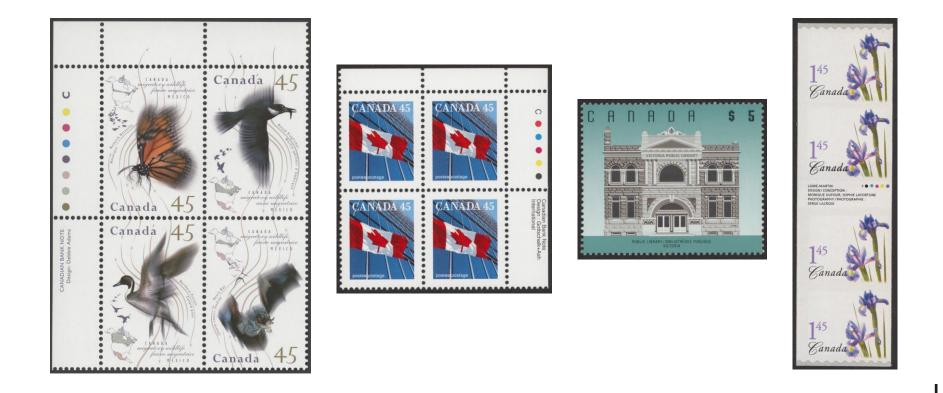


Third printer, Ashton-Potter Canada Ltd.

- Why are the flaws common to CBN and Ashton-Potter Canada Ltd.?
  - CBN likely created its own negatives
  - CBN provided negatives to Ashton-Potter Canada Ltd.
- Why didn't CBN get negativesfrom the original printer,Ashton-Potter Ltd.?
  - Ashton-Potter Ltd. went bankrupt
  - Negatives likely unavailable

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# Lithography with computers



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## Lithography with computers

- Activities where computers have been used
  - Stamp design
  - Production of one-up image
    - Colour separation
    - Halftone screen
      - Stochastic halftone screen
  - Multiplication of image
    - Stamp ⇒ Pane
    - Pane ⇒ Sheet
  - Transfer sheet image to plate
    - Computer to plate (CTP)



### Lithography – Mesh & stochastic screens

#### Mesh halftone screen (recap)

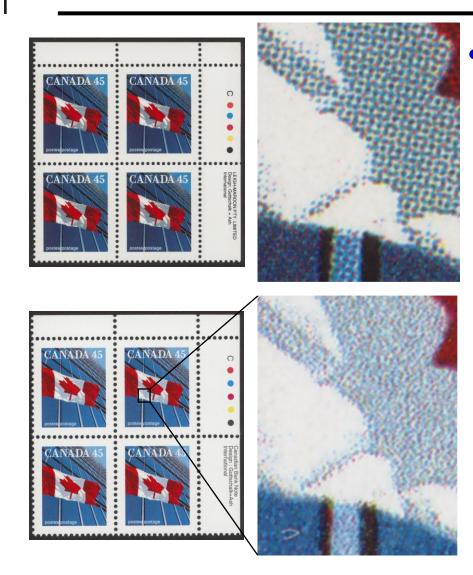
- Colour separation by photography through colour filters
- Halftone screen by photography through a mesh
  - 200-250 lines per inch
  - Colours rendered as lines of dots of variable size
    - Large dots = strong colour
    - Small dots = weak colour
- Stamp design multiplied on film using step-and-repeat camera

#### • Stochastic halftone screen

- Colour separation by computer
- Computer renders colours as random, fixed-size dots
  - Dot size: 10 to 15 microns
  - More dots = stronger colour
- Stamp design multiplied by computer using computer image

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### Lithography – Mesh & stochastic screens

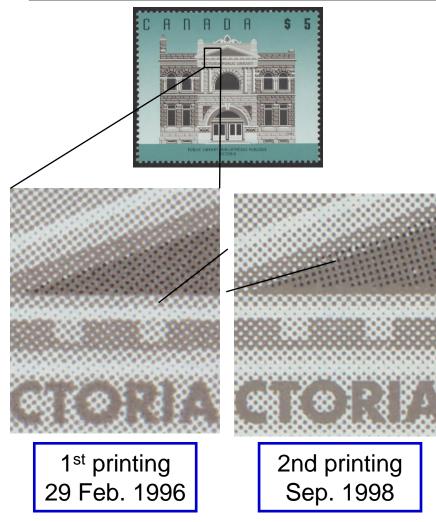


#### Flag over building, 5-colour litho

- Leigh-Mardon, 31 July 1995
  - Mesh halftone screen
  - Rows of dots, different sizes
- CBN, reprint, 6 Oct. 1995
  - Stochastic halftone screen
  - Random fine dots, same size

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### Lithography – Mesh & stochastic screens



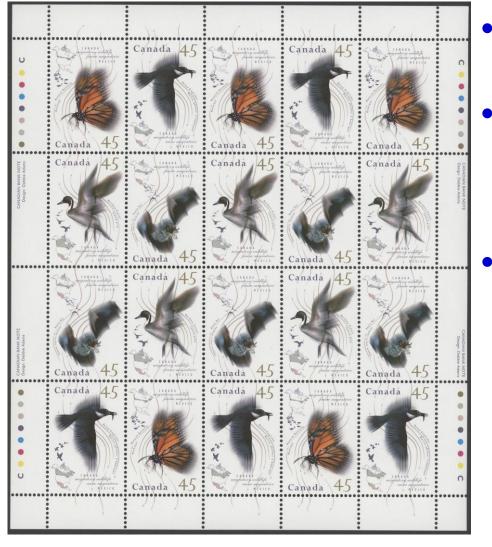
- 1996 \$5.00 Victoria Library
  - CBN, 4-colour litho, 1-colour engraving
  - Mesh halftone screen
  - Black dots at 37°

#### 1998 unannounced CBN reprint

- Letters "VICTORIA PUBLIC LIBRARY" extremely sharp
- "Dots" at top left are perfect squares
- Black dots at 14°
- Halftone screen likely computer-generated to simulate mesh screen

Ref: Leopold Beaudet, "Notes on the Two \$5.00 Victoria Public Library Printings", *Corgi Times*, Vol. XII, No. 5, Mar.-Apr. 2004. Copyright © 2024 Leopold Beaudet

# **1995 Migratory Wildlife**



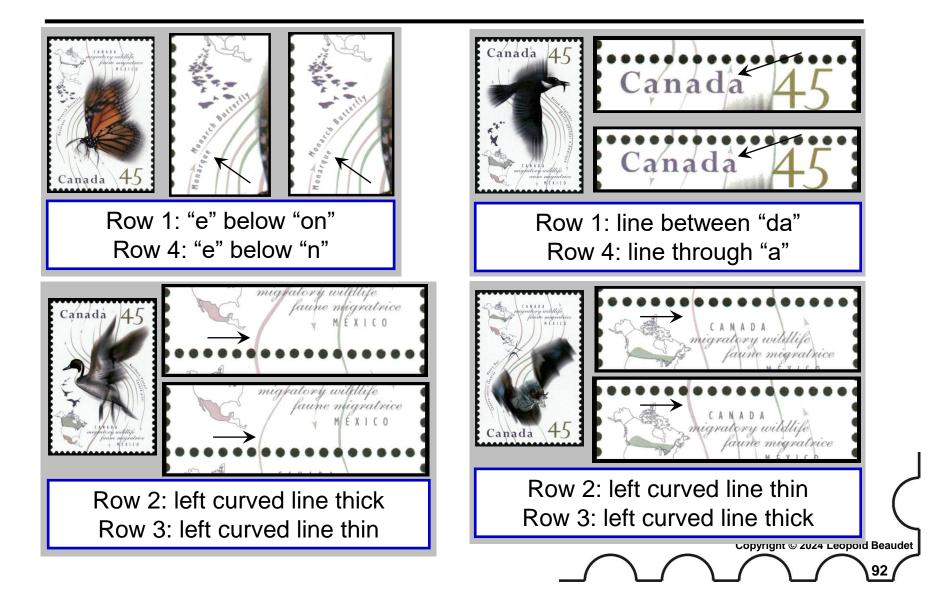
- Printed by CBN
  - Lithography, 7 colours
- Design variation
  - Design differences between stamps in top 2 and bottom 2 rows
- Design error
  - "f" missing in "faune" on all Belted Kingfisher stamps

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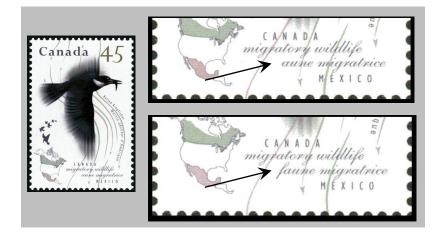
• Reissued with error corrected

### 1995 Migratory Wildlife – Design variations



### **1995 Migratory Wildlife – Design error**

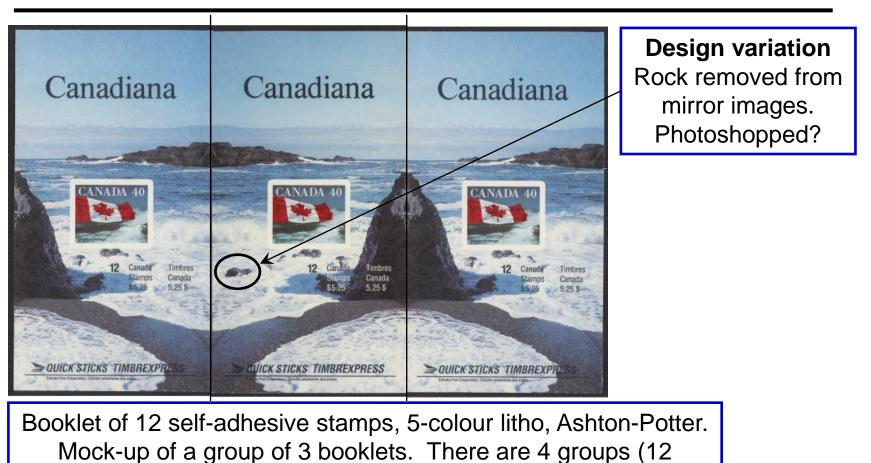
• "Computer" (i.e.: "human") error



15 Aug. 1995 issue "f" in "faune" missing on all 5 Kingfisher stamps 26 Sep. 1995 reissue Spelling error corrected

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### 1990 \$5.25 "Quick Stick" booklet



booklets) on the plate, 2 rows by 2 columns.

Left and right covers are mirror images of the centre one, almost.

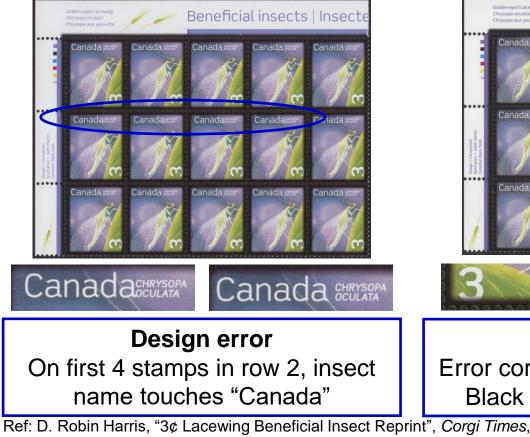
Ref: D. Robin Harris, "40¢ Flag over Seacoast (Sc. 1193, BK127) Press Sheet", *Corgi Times*, Vol. XIX, No. 6, May-June 2011.

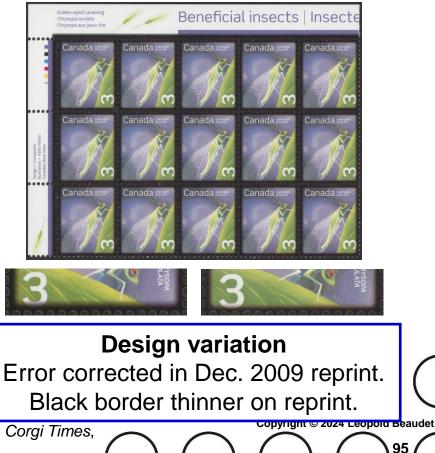
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# 2007 3¢ Beneficial Insect

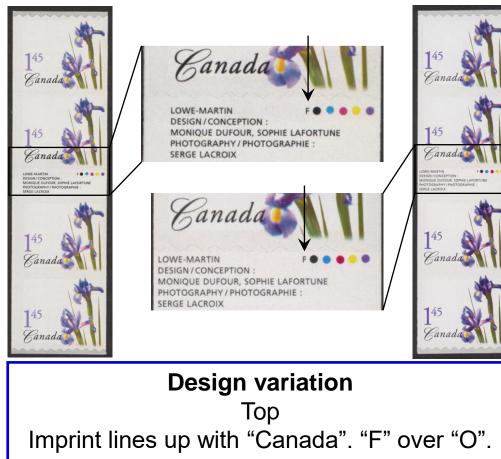
- 5-colour lithography, panes of 50, CBN, issued 12 Oct. 2007
- Reprinted in Dec. 2009

Vol. XVIII, No. 5, Mar.-Apr. 2010.





### 2004 \$1.45 Purple Dutch Iris coil



Bottom Imprint shifted to the left. "F" over "R".

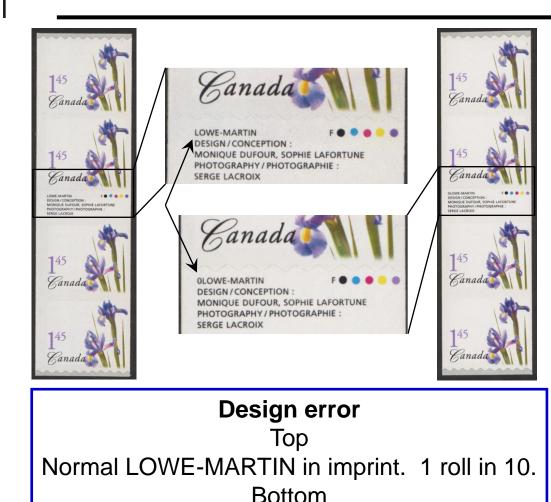
Ref: Robin Harris, "Flower Coils", Corgi Times, Vol. XIII, No. 6, May-June 2005.

50¢, 85¢, \$1.45 Flower definitive coils

- Issued 20 Dec. 2004
- 5-colour lithography, Lowe-Martin
- All 3 coils come with the same shifted imprint variety

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### 2004 \$1.45 Purple Dutch Iris coil



"0" in front of LOWE-MARTIN. 9 rolls in 10.

Error does not exist on 50¢, 85¢ coils

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### Lithography varieties – camera vs computer

#### Lithography with cameras

- Flaws due to defects in film images
- Primary, secondary, tertiary repeating flaws
- Lithography with computers
  - Variations due to (unintended?) changes in design
  - Design errors due to computer (i.e.: "human") slip-ups

