

9387

Diag. 1267 and 1270.

Form 504
U. S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE
DESCRIPTIVE REPORT
Type of Survey <u>Topographic</u>
Field No. <u>Ph-60(49)B</u> Office No. <u>T-9387</u>
LOCALITY
State <u>Louisiana</u>
General locality <u>Chandeleur Sound</u>
Locality <u>North Island</u>
<u>194 50-51</u>
CHIEF OF PARTY
<u>P.L.Bernstein, Chief of Field Party</u>
<u>J.E.Waugh, Tampa Photo, Office</u>
LIBRARY & ARCHIVES
DATE <u>May 15, 1958</u>

8-1870-1 (1)

9387

# DATA RECORD

T -9387

Project No. (II): **Ph-60(49)B**      Quadrangle Name (IV):

Field Office (II): **Gulfport, Mississippi**

Chief of Party: **Percy L. Bernstein**

Photogrammetric Office (III): **Tampa, Florida**

Officer-in-Charge: **J. E. Waugh**

Instructions dated (II) (III): **8 August 1950**

Copy filed in Division of  
Photogrammetry (IV)

*Office Files*

Method of Compilation (III): **Graphic**

Manuscript Scale (III): **1:20,000**

Stereoscopic Plotting Instrument Scale (III): **Inapplicable**

Scale Factor (III): **None**

Date received in Washington Office (IV):

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.:

Date:

Date registered (IV): **3-20-57**

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): **N. A. 1927**

Vertical Datum (III):

Mean sea level except as follows:  
Elevations shown as (25) refer to mean high water  
Elevations shown as (5) refer to sounding datum  
i.e., mean low water or mean lower low water

Reference Station (III): **CHANDELEUR LIGHTHOUSE, 1910** ✓ *(on T-9386)*

Lat.: **30° 02' 52".272 (1609.5m)** ✓      Long.: **88° 52' 18".293 (490.1m)** ✓

Adjusted  
~~Unadjusted~~

Plane Coordinates (IV):

State: **La.**

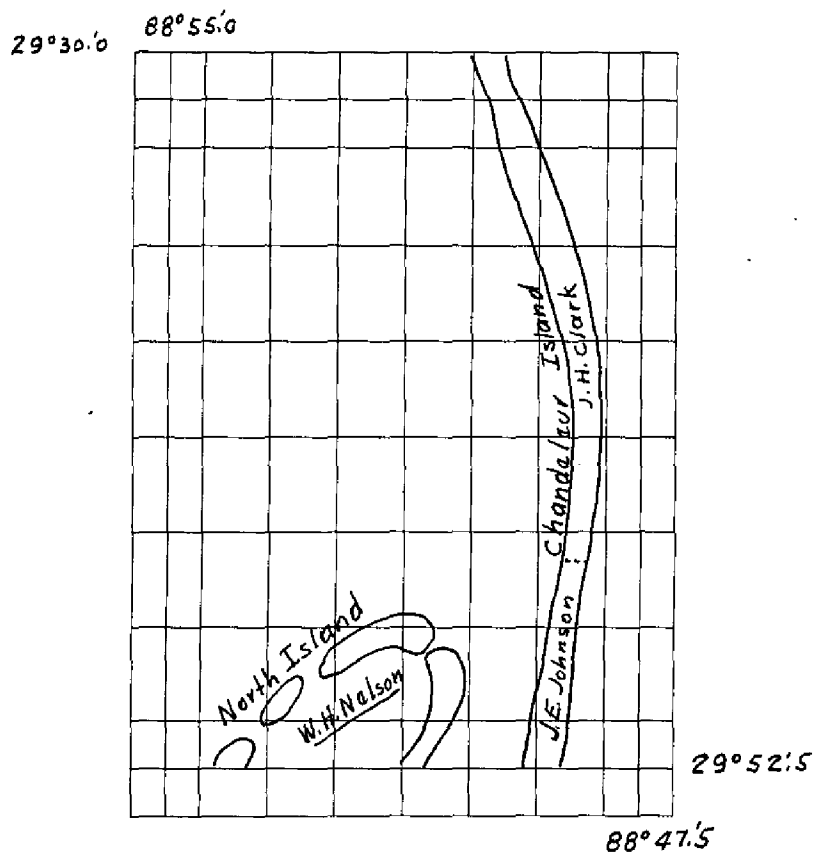
Zone: **South**

Y=

X=

Roman numerals indicate whether the item is to be entered by (II) Field Party, (III) Photogrammetric Office, or (IV) Washington Office.

When entering names of personnel on this record give the surname and initials, not initials only.



Areas contoured by various personnel  
(Show name within area)  
(II) (III)



# DATA RECORD

Field Inspection by (II): W. M. Reynolds  
W. H. Nelson  
J. H. Clark  
J. E. Johnson

Date: Dec 1950 to  
Mar 1951

Planetable contouring by (II): W. H. Nelson  
J. H. Clark  
J. E. Johnson

Date: Dec 1950  
Mar 1951  
Mar 1951

Completion Surveys by (II): *None*

Date:

Mean High Water Location (III) (State date and method of location):

9 May 1950 - Air Photo compilation

Projection and Grids ruled by (IV): T. L. J. (W.O.)

Date: 23 February 1951

Projection and Grids checked by (IV): H. D. W. (W.O.)

Date: 26 February 1951

Control plotted by (III): I. I. Saperstein

Date: 29 May 1951

Control checked by (III): R. J. Pate

Date: 7 June 1951

~~Radial Plot by Stereoscopic~~  
~~Control extension by (III):~~ M. M. Slavney

Date: 4 September 1951

Planimetry  
Stereoscopic Instrument compilation (III): **Inapplicable**  
Contours

Date:

Date:

Manuscript delineated by (III): C. J. Downing

Date: 15 December 1951

Photogrammetric Office Review by (III): J. A. Giles

Date: 25 February 1952

Elevations on Manuscript J. A. Giles  
checked by ~~W~~ (III):

Date: 15 December 1951



Camera (kind or source) (III): **USC&GS Nine-Lens Camera, 8.25" focal length**

Number	Date	Time	Scale	Stage of Tide
25876	9 May 1950	10:24	1:20,000	No tide
25877	"	10:25	"	"
25878	"	10:26	"	"
25879	"	10:27	"	0.6 above MLW.
25880	"	10:28	"	No tide
26058	15 May 1950	16:30	"	0.1 above MLW.

### Diurnal

Tide (III)

Reference Station: **PENSACOLA, FLORIDA**  
Subordinate Station: **CHANDELEUR LIGHT, LA.**  
Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range
0.9		1.3
0.9		1.2

Washington Office Review by (IV): **Everett H. Ramey**

Date: **2 Feb 1955**

Final Drafting by (IV): **John H. Frazier**

Date: **18 Nov 1955**

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): **5**  
Shoreline (More than 200 meters to opposite shore) (III): **38**  
Shoreline (Less than 200 meters to opposite shore) (III): **none**  
Control Leveling - Miles (II): **None**  
Number of Triangulation Stations searched for (II): **2**  
Number of BMs searched for (II): **None**  
Number of Recoverable Photo Stations established (III): **8**  
Number of Temporary Photo Hydro Stations established (III): **0**

Recovered: **0** Identified: **0\***  
Recovered: Identified:

### Remarks:

\*Five recoverable topographic stations were located by triangulation or traverse and identified. Two unmarked traverse stations were also identified. All are of less than 3rd order accuracy.

### Summary to Accompany Topographic Map T-9387

This topographic map is one of eleven similar maps of Part B of Project Ph-60. Part B covers the islands in Mississippi, Chandeleur and Breton Sounds in Louisiana and Mississippi.

Project Ph-60 is a graphic compilation project. Field work in advance of compilation included the establishment of some additional control, complete field inspection, the delineation of 5-foot contours directly on the photographs by planetable methods, and the investigation of geographic names and political boundaries.

None of the maps of Part B of Project Ph-60 were field edited. All were compiled at a scale of 1:20,000, using nine-lens photographs taken in 1950. With the addition of hydrographic data, these maps will be forwarded to the Geological Survey for publication as standard 7-1/2-minute topographic maps.

Items registered under each map number will include a descriptive report, ~~cloth-backed~~ copies of the manuscript and the published map.

C.RONAR



## 2. AREAL FIELD INSPECTION

This quadrangle is comprised of a part of the Chandeleur Islands and a part of North Island. Chandeleur Islands are a narrow strip of barrier beach which lies between Chandeleur Sound and the Gulf of Mexico.

The Gulf side of these islands is a sand and shell beach, while the Sound side is marsh and mangrove swamp. There are occasional small areas of shifting sand dunes along the entire area.

North Island is a long, narrow strip of marsh and mangrove located in Chandeleur Sound and approximately 3 miles west of Chandeleur Island.

None of the islands are inhabited and have very little value commercially or otherwise, although North Island is a favorite spot for sport fishing.

Field inspection is believed to be complete and no items were left for field edit.

The photograph tones range from white through gray to black. The white areas are sand and shell; the gray tones are marsh areas, which are covered by grass only, and shoal areas west of the island. The whiteness of some of the shoal area is determined by reflection and the shallowness of the water in the area. Some of the shoal area also photographs black, which is caused by a mud bottom and shallow water.

Field inspection is shown on photographs 25877, 25878, 25879, 25880, 26056, 26057, and 26058.

## 3. HORIZONTAL CONTROL

DEL 1921 and NORTH ISLAND 1921 were reported lost.

Seven stations of less than third-order accuracy were established for control of the plot, they are: recoverable topographic stations AUTO, BIRD, BUSY and COLA, and unmarked traverse stations H and M, located by traverse; and recoverable topographic station YARD, located by triangulation. For further details see "Special Report, Supplemental Control, Project Ph-60(49)B, Breton and Chandeleur Sounds", forwarded to the Washington Office 16 April 1951. *(Filed under project data, Div. of Photogrammetry)*

Horizontal control was identified on photographs 25877, 25878, 25879, 25880, and 26057.

## 4. VERTICAL CONTROL

Planetable contours were controlled by water level elevation corrected to predicted heights from "Tide Tables, Atlantic Ocean, 1950" and "Tide Tables, East Coast, North and South America, 1951."

No bench marks were established and no supplemental levels were run.



5. CONTOURS AND DRAINAGE

Contouring was done directly on nine-lens photographs by standard planetable methods. The Chandeleur Islands consists of spot elevations except for occasional groups of sand dunes. Where the dunes were large enough and stabilized, the contours were drawn in. In cases of shifting sand, spot elevations only were shown. North Island is mangrove swamp with no elevations above five feet.

Contouring was done on photographs 25877, 25878, 25879, 25880, and 26057.

6. WOODLAND COVER

Mangrove swamp is the only woodland cover.

7. SHORELINE AND ALONGSHORE FEATURES

The mean high water line along the Gulf of Mexico was located by determining an azimuth and distance from the previously mentioned traverse stations. The shoreline along the Sound side is all apparent except for the many shoals along the west side of the Chandeleur Islands. Some of these shoals are above mean high water but they are not noticeable from a boat offshore.\* This shoreline was indicated on the photograph by walking along the edge of mangrove and by running close inshore with a skiff. The shoreline around North Island is all apparent and should be drafted in *See §35* along the offshore edge of the mangrove.

*\* Apparently field party delineated all mean high-water areas. ENR*  
The low water line was not located.

There are no shoreline structures of any kind.

8. OFFSHORE FEATURES

The only offshore features are the shoals west of the Chandeleur Islands. They are sometimes bare for some distance offshore with a prolonged northerly wind. Any further information of these shoals will have to be obtained by a hydrographic party.

9. LANDMARKS AND AIDS

There are no landmarks or aids of any kind.

10. BOUNDARIES, MONUMENTS, AND LINES

The entire area is in St. Bernard Parish, Police Jury Ward 7. See "Special Report, Boundaries, Project Ph-60(49)",\* to be forwarded at a later date. *\*(Filed under project data, Div. of Photogrammetry)*

No monuments of any kind were recovered by the field inspection party.



11. OTHER CONTROL

The following recoverable topographic stations were established: BUSY 1950, BLUE 1950, CAVE 1950, AUTO 1950, BIRD 1950, COLA 1920, and YARD 1950. All the stations except YARD 1950 were located from the traverse along the beach. YARD 1950 was located by triangulation referred to previously.

*See § 38*

12. OTHER INTERIOR FEATURES

There are no other interior features worthy of note.

13. GEOGRAPHIC NAMES

See "Special Report, Geographic Names, Project Ph-60(49)",<sup>\*</sup> to be submitted at a later date. *\* Filed in Geographic Names Section, Div. of Charts.*

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA

"Special Report, Boundaries, Project Ph-60(49)", to be forwarded at a later date.

"Special Report, Geographic Names, Project Ph-60(49)", to be forwarded at a later date.

"Special Report, Supplemental Control, Project Ph-60(49)B, Breton and Chandeleur Sounds", forwarded to the Washington Office 16 April 1951.

Data, Quadrangle T-9387, letter of transmittal 60-11, forwarded to the Tampa Photogrammetric Office 20 April 1951.

Submitted  
18 April 1951

*Joseph Y. Fitzgerald*  
*Cartographer (Photo)*  
*for*  
William M. Reynolds  
Cartographic Survey Aid

Approved  
20 April 1951

*Percy L. Bernstein*  
Percy L. Bernstein  
Chief of Party

PHOTOGRAMMETRIC PLOT REPORT

This report is filed as part of the Descriptive Report  
for T-9383 and covers maps T-9383 thru T-9393.







COMPILATION REPORT T-9387

PHOTOGRAMMETRIC PLOT REPORT.

Submitted with T-9383.

31. DELINEATION.

Compiled by the graphic method. No unusual methods were employed.

32. CONTROL.

Horizontal control was adequate. Identification, placement and density were satisfactory.

33. SUPPLEMENTAL DATA.

None.

*See § 14*

34. CONTOURS AND DRAINAGE.

Contours were transferred from the field photographs. No difficulties were encountered.

35. SHORELINE AND ALONGSHORE DETAILS.

No definite limits of shoal areas or low-water line were shown by the field inspector. Approximate limits of shallow areas have been mapped. In some instances, designation of apparent shoreline was disregarded by the field inspector and has been duly noted on the discrepancy overlay.

*See § 67*

36. OFFSHORE DETAILS.

No statement.

*See § 8*



37. LANDMARKS AND AIDS.

Reference Item 9.

38. CONTROL FOR FUTURE SURVEYS.

Form 524 has been submitted for each recoverable topographic station. A list of these stations has been prepared and included in Item 49. Station BALD, 1950, appears to have been inadvertently left out of those named under Item 11.

39. JUNCTIONS.

Joins T-9386 on the north - good agreement.  
Joins T-9389 on the south - good agreement.  
Bounded by water on the east and west.

40. HORIZONTAL AND VERTICAL ACCURACY.

No statement.

*See §66*

41. PUBLIC LAND LINES.

No section corners were recovered therefore it was impossible to establish section lines. *Apparently these islands have not been sectionalized. ETK*

46. COMPARISON WITH EXISTING MAPS.

None available for comparison.

*See §62*



47. COMPARISON WITH NAUTICAL CHARTS.

Comparison was made with Nautical Chart 1270, scale 1:80,000, dated 1924, corrected to 16 August 1951 and in general the agreement was good. Five small inlets shown on the Nautical Chart are now closed.

Sec 865

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY.

None.

ITEMS TO BE CARRIED FORWARD.

None.

Charles J. Downing  
Charles J. Downing  
Carto. Photo. Aid

APPROVED AND FORWARDED:

J. E. Waugh  
J. E. Waugh, Chief of Party

# TIDE COMPUTATION

PROJECT NO. Ph. 60(49)T. 9387

Time and date of exposure 16:30, 15 May 1950 Reference station PENSACOLA, FLORIDA Mean range Diurnal  
 Date of field inspection March 1951 Subordinate station CHANDELEUR LIGHT Ratio of ranges 0.9

	Time		Height feet	Height x Ratio of ranges	Time	
	h.	m.			h.	m.
High tide	9	11	1.3	1.2	9	11
Low tide	20	11	-0.1	-0.1	-0	30
Duration of rise or fall	11	00	Range of tide		8	11
				1.3		

	Time	
	h.	m.
High tide at Ref. Sta.	9	11
Time difference	-0	30
Corrected time at Subordinate station	8	41

	Time
	h. m.
Low tide at Ref. Sta.	20 11
Time difference	-00 30
Corrected time at Subordinate station	19 41

	Time		Height feet	Height x Ratio of ranges	Time	h.	m.
Time <u>H. T. or L. T.</u>	<u>19:41</u>	<u>16:30</u>	<u>3:11</u>	<u>H. T. or L. T.</u>	<u>19:41</u>	<u>16:30</u>	<u>3:11</u>
Required time				Tabular correction			
Interval				Stage of tide above MLW			
Time H. T. or L. T.				Ht. H. T. or L. T.			
Required time				Tabular correction			
Interval				Stage of tide above MLW			
Time H. T. or L. T.				Ht. H. T. or L. T.			
Required time				Tabular correction			
Interval				Stage of tide above MLW			
Time H. T. or L. T.				Ht. H. T. or L. T.			
Required time				Tabular correction			
Interval				Stage of tide above MLW			
Time H. T. or L. T.				Ht. H. T. or L. T.			
Required time				Tabular correction			
Interval				Stage of tide above MLW			
Time H. T. or L. T.				Ht. H. T. or L. T.			
Required time				Tabular correction			
Interval				Stage of tide above MLW			

# TIDE COMPUTATION

PROJECT NO. Ph-60(49)-9387

Time and date of exposure **10:27 9 May 1950**

Reference station

**PENSACOLA, FLORIDA**

Mean range **Diurnal**

Date of field inspection **MARCH 1951**

Subordinate station

**CHANDELEUR LIGHT**

Ratio of ranges **0.9**

	Time	
	h.	m.
High tide	16	31
Low tide	3	05
Duration of rise or fall	13	26

	Height feet	Height x Ratio of ranges
High tide	1.0	0.9
Low tide	0.0	0.0
Range of tide		0.9

	Time	
	h.	m.
High tide at Ref. Sta.	16	31
Time difference	-00	30
Corrected time at Subordinate station	16	01

	Time	
	h.	m.
Low tide at Ref. Sta.	3	05
Time difference	-0	30
Corrected time at Subordinate station	2	35

	h.	m.		feet		feet	Photo. No.
Time H. T. or L. T. <i>HHH</i>	16	01	Ht. H. T. or L. T. <i>HHH</i>	0.9	Feature bares		25879
Required time	10	27	Tabular correction	0.3	Stage of tide above MLW		
Interval	5	34	Stage of tide above MLW	0.6	Feature above MLW		
Time H. T. or L. T.			Ht. H. T. or L. T.		Feature bares		
Required time			Tabular correction		Stage of tide above MLW		
Interval			Stage of tide above MLW		Feature above MLW		
Time H. T. or L. T.			Ht. H. T. or L. T.		Feature bares		
Required time			Tabular correction		Stage of tide above MLW		
Interval			Stage of tide above MLW		Feature above MLW		
Time H. T. or L. T.			Ht. H. T. or L. T.		Feature bares		
Required time			Tabular correction		Stage of tide above MLW		
Interval			Stage of tide above MLW		Feature above MLW		
Time H. T. or L. T.			Ht. H. T. or L. T.		Feature bares		
Required time			Tabular correction		Stage of tide above MLW		
Interval			Stage of tide above MLW		Feature above MLW		

M-2617-12

Computed by **C. J. Downing**

Checked by **R. E. Smith Jr**

16



50.

## PHOTOGRAMMETRIC OFFICE REVIEW

T- 9387

1. Projection and grids J.G. 2. Title J.G. 3. Manuscript numbers J.G. 4. Manuscript size J.G.

## CONTROL STATIONS

5. Horizontal control stations of third-order or higher accuracy M.M.S. 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) J.G. 7. Photo hydro stations XXX 8. Bench marks J.G. 9. Plotting of sextant fixes XXX 10. Photogrammetric plot report J.G. 11. Detail points J.G.

## ALONGSHORE AREAS

(Nautical Chart Data)

12. Shoreline J.G. 13. Low-water line J.G. 14. Rocks, shoals, etc. J.G. 15. Bridges XXX 16. Aids to navigation XXX 17. Landmarks XXX 18. Other alongshore physical features J.G. 19. Other along-shore cultural features J.G.

## PHYSICAL FEATURES

20. Water features J.G. 21. Natural ground cover J.G. 22. Planetable contours J.G. 23. Stereoscopic instrument contours XXX 24. Contours in general J.G. 25. Spot elevations J.G. 26. Other physical features J.G.

## CULTURAL FEATURES

27. Roads XXX 28. Buildings XXX 29. Railroads XXX 30. Other cultural features XXX

## BOUNDARIES

31. Boundary lines J.G. 32. Public land lines J.G.

## MISCELLANEOUS

33. Geographic names J.G. 34. Junctions J.G. 35. Legibility of the manuscript J.G. 36. Discrepancy overlay J.G. 37. Descriptive Report J.G. 38. Field inspection photographs J.G. 39. Forms J.G.

40. Jesse A. Giles

Reviewer

William A. Kasire

Supervisor, Review Section of Unit

41. Remarks (see attached sheet)

## FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT

42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.

\_\_\_\_\_  
Compiler

\_\_\_\_\_  
Supervisor

43. Remarks:

M-2623-12

Review Report  
Topographic Map T-9387  
2 February 1955

62. Comparison with Registered Topographic Surveys:

T-548	1:20,000	1855
T-549	"	"
T-3917	"	1922
T-3985	"	"

Many large changes in shoreline have occurred since these surveys. For the area it encompasses, T-9387 should supersede these prior surveys for nautical charting purposes.

63. Comparison with Maps of Other Agencies:

None

64. Comparison with Contemporary Hydrographic Surveys:

None

65. Comparison with Nautical Charts:

1270	1:80,000	1947, corrected to 54-10/18
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Apparently, T-9387 was applied in its entirety to this chart. During this review a few changes were made to the map manuscript which are shown in red.

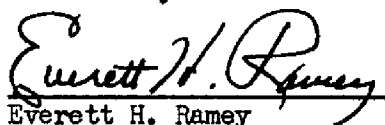
66. Adequacy of Results and Future Surveys:

This map meets the National Standards of Map Accuracy and complies with Bureau requirements.

67. Shoreline:

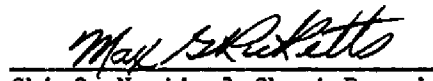
Reference, Item 35. The apparent shoreline referred to is around part of North Island where a narrow shell ridge 4' high has built up. This has been mapped as fast shoreline.

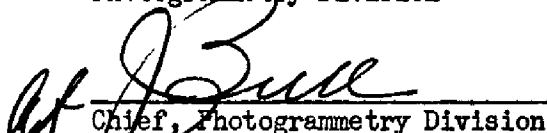
Reviewed by:

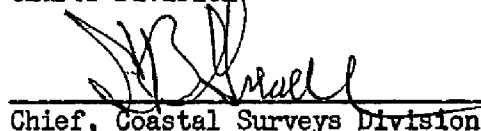
  
Everett H. Ramey

APPROVED:

  
Chief, Review Section  
Photogrammetry Division

  
Chief, Nautical Chart Branch  
Charts Division

  
Chief, Photogrammetry Division

  
Chief, Coastal Surveys Division



48. GEOGRAPHIC NAME LIST.BRETON NATIONAL WILDLIFE REFUGECHANDELEUR ISLANDSCHANDELEUR SOUNDGULF OF MEXICOLOUISIANANORTH ISLANDSPOLICE JURY WARD NO. 7*(Not mapped) 8/12*SHOALWATER BAYSMACK CHANNELST BERNARD'S PARISH

*Names underlined in red  
are approved. 8-21-52  
L. Heck*



49. NOTES FOR THE HYDROGRAPHER.

The following list of recoverable topographic stations may be useful to the hydrographer:

AUTO, 1950  
BALD, 1950  
BIRD, 1950  
BLUE, 1950  
BUSY, 1950  
CAVE, 1950  
COLA, 1950  
YARD, 1950