

United States Department of the Interior  
National Park ServiceNational Register of Historic Places  
Inventory—Nomination Form

For NPS use only

received

date entered

JUL 17 1987

AUG 26 1987

See instructions in *How to Complete National Register Forms*  
Type all entries—complete applicable sections

## 1. Name

historic Mangels, William F., Four-Row Carousel - Oregon Historic Wooden Carousels TR  
and/or common Forestry Center Carousel  
Number of contributing resources: 5 of 6  
Number of non-contributing resources: 0

## 2. Location

street &amp; number 4033 SW Canyon Road N/A not for publication

city, town Portland N/A vicinity of First Congressional District

state Oregon code 41 county Multnomah code 051

## 3. Classification

Category	Ownership	Status	Present Use	
<input type="checkbox"/> district	<input type="checkbox"/> public	<input checked="" type="checkbox"/> occupied	<input type="checkbox"/> agriculture	<input type="checkbox"/> museum
<input type="checkbox"/> building(s)	<input checked="" type="checkbox"/> private	<input type="checkbox"/> unoccupied	<input type="checkbox"/> commercial	<input type="checkbox"/> park
<input type="checkbox"/> structure	<input type="checkbox"/> both	<input type="checkbox"/> work in progress	<input type="checkbox"/> educational	<input type="checkbox"/> private residence
<input type="checkbox"/> site	<b>Public Acquisition</b>	<b>Accessible</b>	<input checked="" type="checkbox"/> entertainment	<input type="checkbox"/> religious
<input checked="" type="checkbox"/> object	N/A in process	<input type="checkbox"/> yes: restricted	<input type="checkbox"/> government	<input type="checkbox"/> scientific
	N/A being considered	<input checked="" type="checkbox"/> yes: unrestricted	<input type="checkbox"/> industrial	<input type="checkbox"/> transportation
		<input type="checkbox"/> no	<input type="checkbox"/> military	<input type="checkbox"/> other:

## 4. Owner of Property

name Duane and Carol Perron (owners of carousel only) (Continued)

street &amp; number 6693 SE Scott Drive

city, town Portland N/A vicinity of state Oregon 97215

## 5. Location of Legal Description

courthouse, registry of deeds, etc. City of Portland Building Permits Department

street &amp; number 1120 SW 5th Avenue

city, town Portland state Oregon 97205

## 6. Representation in Existing Surveys

title Statewide Inventory of Historic Properties has this property been determined eligible? ☐ yes ☒ nodate 1986 ☐ federal ☒ state ☐ county ☐ local

depository for survey records State Historic Preservation Office, 525 Trade Street SE

city, town Salem state Oregon 97310

## 7. Description

### Condition

☒ excellent  
☐ good  
☐ fair

☐ deteriorated  
☐ ruins  
☐ unexposed

### Check one

☒ unaltered  
☐ altered

### Check one

☐ original site  
☒ moved

date 1975, 1978

### Describe the present and original (if known) physical appearance

The four-row carousel by the William F. Mangels Company Carousel Works, manufactured about 1914, has 16 lighted sweeps which can hold 42 horses mounted on brass poles. The wooden platform has a diameter of 45 feet, and the center pole reaches a height of 18 feet. The wooden horses on the carousel were created by the company's leading carvers, Marcus Charles Illions and Charles Carmel. They are embellished with glass eyes and jeweled trappings. The array combines standers and jumpers. Also on the platform are two single-seat chariots, the sides of which are superbly modeled as mythical gryphons.

The machine is crested with 16 wooden rounding boards, some of which have painted scenes, and 16 mirrored shields. Beveled mirrors and lights also decorate the panels which are hung around the hub of the machine.

The carousel is powered by an electric motor that converts power via V-belts to a large flywheel. The manual friction clutch transfers the power to a bevel and pinion gear that turns a shaft which in turn moves a sprocket to rotate the machine. All gears and mechanical parts are original to the carousel. The engine generates a rotation speed of approximately 6mph.<sup>1</sup>

Because it is operated as an outdoor machine, the mechanism is covered with a canvas canopy. The original finish of the rounding boards was badly worn. Present treatment, including Oregon landscape scenes, is a result of Perrons' restoration in 1978.

<sup>1</sup> Statement of Duane Perron, owner, November 7, 1986.



## 8. Significance

Period	Areas of Significance—Check and justify below			
<input type="checkbox"/> prehistoric	<input type="checkbox"/> archeology-prehistoric	<input type="checkbox"/> community planning	<input type="checkbox"/> landscape architecture	<input type="checkbox"/> religion
<input type="checkbox"/> 1400–1499	<input type="checkbox"/> archeology-historic	<input type="checkbox"/> conservation	<input type="checkbox"/> law	<input type="checkbox"/> science
<input type="checkbox"/> 1500–1599	<input type="checkbox"/> agriculture	<input type="checkbox"/> economics	<input type="checkbox"/> literature	<input type="checkbox"/> sculpture
<input type="checkbox"/> 1600–1699	<input type="checkbox"/> architecture	<input type="checkbox"/> education	<input type="checkbox"/> military	<input type="checkbox"/> social/
<input type="checkbox"/> 1700–1799	<input checked="" type="checkbox"/> art	<input type="checkbox"/> engineering	<input type="checkbox"/> music	<input type="checkbox"/> humanitarian
<input type="checkbox"/> 1800–1899	<input type="checkbox"/> commerce	<input type="checkbox"/> exploration/settlement	<input type="checkbox"/> philosophy	<input type="checkbox"/> theater
<input checked="" type="checkbox"/> 1900–	<input type="checkbox"/> communications	<input type="checkbox"/> industry	<input type="checkbox"/> politics/government	<input type="checkbox"/> transportation
		<input type="checkbox"/> invention		<input checked="" type="checkbox"/> other (specify) recreation

**Specific dates** c. 1914 **Builder/Architect** William F. Mangels Company Carousel Works

### Statement of Significance (in one paragraph)

The Oregon Historic Wooden Carousels Theme Resource nomination is comprised of five hand-crafted carousels of American manufacture presently operating in the state of Oregon. The nominated carousels range in date from 1904 to 1926, a period which spans much of the last half of the golden age of carousels (1875–1935) and the heyday of amusement parks. The common characteristics of carousels in the group are wooden platforms, wooden rounding boards, hand-carved animals, and a counter clockwise rotation pattern. Each is now electrically powered, using friction clutch or hydraulic clutch mechanical systems. Collectively and individually, the machines meet National Register Criterion C as well-preserved examples of a recreational genre illustrative of the development of animal carving as a "functional" art form wherein the carvers competed to create the most novel and colorful attractions.

A mid-sized machine measuring 45 feet in diameter, the William F. Mangels four-row carousel is a rare example of its class. Mangels' carousel works produced a large number of the 24 lavishly decorated carousels operating at New York's popular Coney Island Amusement Park during the park's heyday. A leading entrepreneur of the outdoor amusement industry, Mangels was the inventor of thrill rides, such as the Whip and the Tickler. From the turn-of-the-century onward, his master carver was Russian-born Marcus Charles Illions, whose work, outstanding for its design and execution, may be seen in the carousel's array of horses in dramatic poses, feathery, wind-swept manes and elaborate trappings. It is believed the hand of carver Charles Carmel may be distinguished in the work also.

The mechanism of Mangels' 16-sweep machine is noteworthy. Mangels was an accomplished inventor and mechanic. In 1907, he patented an improved galloping-horse action machine of which this carousel is an example. Mangels produced a strongly built mechanism, and earned himself an excellent reputation as a carousel maker. Another reason for Mangels' success was that he used the carving services of two of the best known and admired carvers; Charles Carmel and Marcus Illions.

Marcus Charles Illions had been apprenticed to Charles I. D. Loeff. In 1902, Illions became involved with supplying carousel horses for William F. Mangels, and continued to do so even after starting his own carousel company. Illions is considered to be one of the most flamboyant and talented of the carousel carvers. He is noted for exquisitely carved manes, and for the wildness in the expression of his horses' faces. It is said that his horses "not only embody the sensitivity that was a permanent characteristic of his work, but display fantasies of frozen movement that transcend craftsmanship to create original works of art." (Weedon and Ward, Fairground Art.)

## 9. Major Bibliographical References

Dinger, Charlotte, Art of the Carousel (Green Village, New Jersey: Carousel Art, Inc., 1983), 14, 125-126, 175.  
Fried, Frederick, A Pictorial Historic of the Carousel (Vestal Press, New York, 1964).  
Weedon, Geoff and Ward, Richard, Fairground Art (Abbeville Press, Inc., New York, 1985).

## 10. Geographical Data

Acreeage of nominated property less than one

Quadrangle name Portland, Oregon-Washington

Quadrangle scale 1:62500

UTM References

A 

1	0
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5	2	2	6	7	5
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Zone Easting Northing

B 

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Zone Easting Northing

C 

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Verbal boundary description and justification

See continuation sheet

List all states and counties for properties overlapping state or county boundaries

state	code	county	code
N/A			

state	code	county	code
N/A			

## 11. Form Prepared By

name/title Jean Skinner

organization Portland Carousel Museum date December 12, 1986

street & number 25 SW Salmon Street telephone (503) 241-2560

city or town Portland state Oregon 97204

## 12. State Historic Preservation Officer Certification

The evaluated significance of this property within the state is:

☐ national ☒ state ☐ local

As the designated State Historic Preservation Officer for the National Historic Preservation Act of 1966 (Public Law 89-665), I hereby nominate this property for inclusion in the National Register and certify that it has been evaluated according to the criteria and procedures set forth by the National Park Service.

State Historic Preservation Officer signature

title Deputy State Historic Preservation Officer date July 14, 1987

For NPS use only

I hereby certify that this property is included in the National Register

date

Keeper of the National Register

Attest:

date

Chief of Registration

**United States Department of the Interior  
National Park Service**

**National Register of Historic Places  
Continuation Sheet**

Section number 8 Page 2

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Charles Carmel spent most of his working career associated with the William F. Mangels Company. The quality of his work was considered to be consistently high. Carmel horses were well-proportioned, their manes carved in a windswept style, and they followed accepted poses of the day. An extensive use of glass jewels also became a distinctive feature of Carmel's work. It is known that Carmel and Illions worked in association on several of Mangels carousels, and their work was coordinated through standardization of such accessories as feathers, jewels, and a checker-board design on the saddle blankets.

The carousel originally was installed at Emerson Park in Auburn, New York during 1914. After years of storage, Harry and Carol Koch purchased the machine and placed it in service. In 1978, the carousel was purchased again and brought to Portland, Oregon. The carousel has been operating at the World Forestry Center in Washington Park for the past eight years.



United States Department of the Interior  
National Park Service

**National Register of Historic Places  
Continuation Sheet**

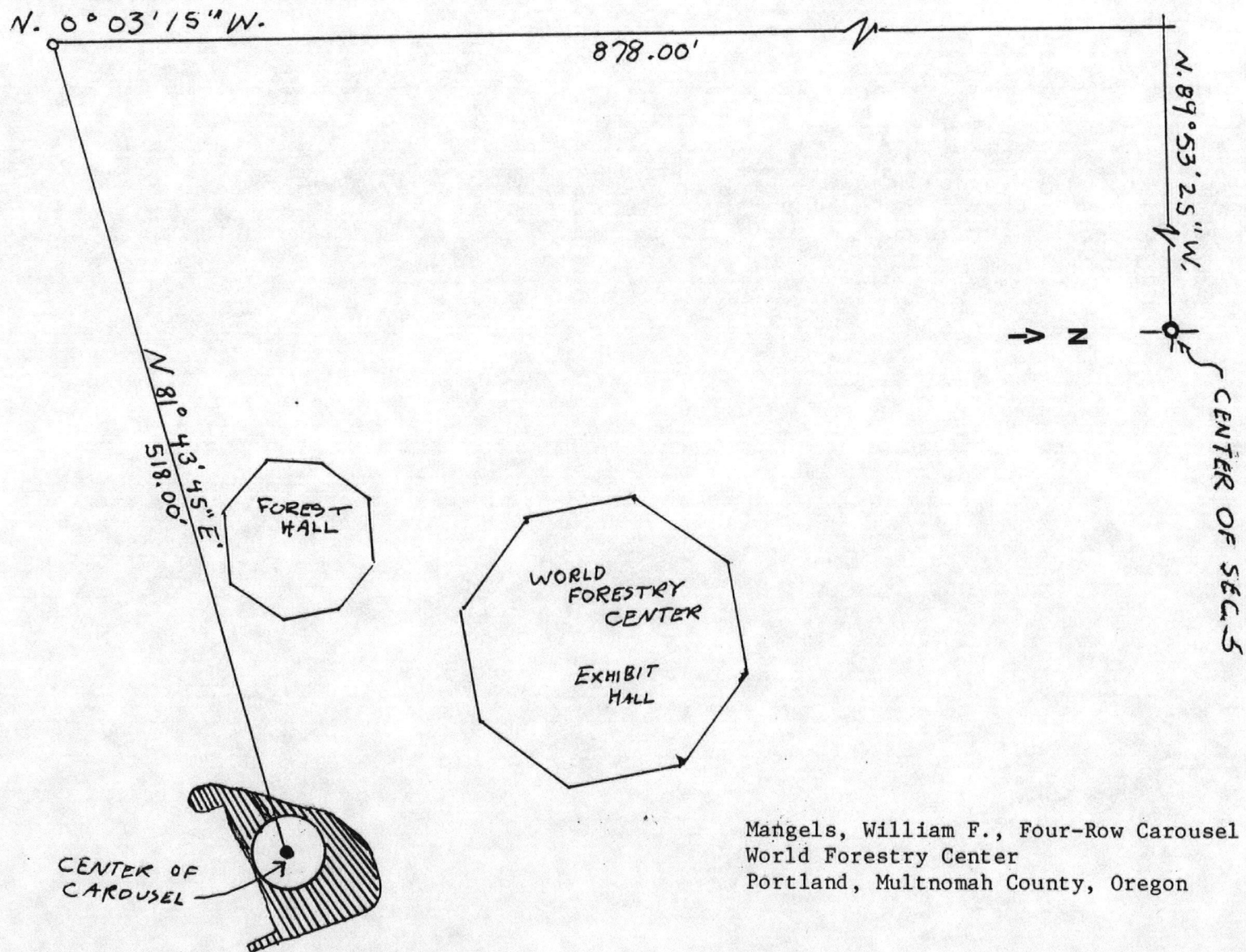
Section number 10 Page 1

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The nominated property is approximately 4,534 square feet, to include the carousel and the circular concrete pad on which it is mounted and the grassy area surrounding it which is enclosed by a six-foot high cyclone fence.

The area may be located as follows:

Commencing at the center of Section 5, Township 1S, Range 1E, Willamette Meridian, in Portland, Multnomah County, Oregon, thence North  $89^{\circ} 53' 25''$  West along the East-West half section line of said Section 5, 1698.21' to a point on the City of Portland, Oregon's westerly boundary; thence South  $0^{\circ} 03' 15''$  along said westerly boundary, 878.00 feet to a point; thence North  $81^{\circ} 43' 45''$  East, 518.00 feet to a point very near the center of the carousel.



Mangels, William F., Four-Row Carousel  
 World Forestry Center  
 Portland, Multnomah County, Oregon



United States Department of the Interior  
National Park ServiceNational Register of Historic Places  
Continuation Sheet

Section number \_\_\_\_\_ Page \_\_\_\_\_

Multiple Resource Area  
Thematic GroupName Oregon Historic Wooden Carousels TR  
State Clatsop and Multnomah Co., OREGON

Nomination/Type of Review

Date/Signature

Cover

1. Herschell, Allan, Two-Abreast  
Carousel2. Herschell--Spillman Noah's  
Ark Carousel3. Looff, Charles, 20-Sweep  
Menagerie Carousel4. Mangels, William F., Four-  
Row Carousel5. Parker, C.W., Four-  
Row Park Carousel

6.

7.

8.

9.

10.

Keeper

Keeper

Attest

Keeper

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~~Substantive Review~~Removed from the National Register  
Entered in the National RegisterEntered in the  
National RegisterRemoved from the National Register  
Entered in the National RegisterEntered in the  
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National Registerfor William B. Bushong 8/26/87for Edson Beall 5/27/88for Edson Beall 5/27/88for Edson Beall 5/27/88for Edson Beall 5/27/88for Edson Beall 5/27/88for Edson Beall 5/27/88for Edson Beall 5/27/88for Edson Beall 5/27/88for Edson Beall 5/27/88for Edson Beall 5/27/88for Edson Beall 5/27/88for Edson Beall 5/27/88for Edson Beall 5/27/88for Edson Beall 5/27/88for Edson Beall 5/27/88for Edson Beall 5/27/88for Edson Beall 5/27/88



67001383

NATIONAL REGISTER OF HISTORIC PLACES  
EVALUATION/RETURN SHEET

Mangels, William F., Four-Row Carousel  
(Oregon Historic Wooden Carousel TR)  
Multnomah County  
OREGON

Working No. JUL 17 1987  
Fed. Reg. Date: 8/22/88  
Date Due: 8/13/87 8/31/87  
Action: ☒ ACCEPT 8-26-87  
☐ RETURN  
☐ REJECT  
Federal Agency: \_\_\_\_\_

Entered in the  
National Register

- ☐ resubmission  
☐ nomination by person or local government  
☐ owner objection  
☐ appeal

Substantive Review: ☐ sample ☐ request ☐ appeal ☐ NR decision

Reviewer's comments:

Recom./Criteria \_\_\_\_\_  
Reviewer \_\_\_\_\_  
Discipline \_\_\_\_\_  
Date \_\_\_\_\_  
\_\_\_\_\_ see continuation sheet

Nomination returned for: \_\_\_\_\_ technical corrections cited below  
\_\_\_\_\_ substantive reasons discussed below

1. Name

2. Location

3. Classification

Category	Ownership	Status	Present Use
	Public Acquisition	Accessible	

4. Owner of Property

5. Location of Legal Description

6. Representation in Existing Surveys

Has this property been determined eligible? ☐ yes ☐ no

7. Description

Condition	Check one	Check one
<input type="checkbox"/> excellent	<input type="checkbox"/> deteriorated	<input type="checkbox"/> unaltered
<input type="checkbox"/> good	<input type="checkbox"/> ruins	<input type="checkbox"/> altered
<input type="checkbox"/> fair	<input type="checkbox"/> unexposed	<input type="checkbox"/> original site
		<input type="checkbox"/> moved date _____

Describe the present and original (if known) physical appearance

- ☐ summary paragraph  
☐ completeness  
☐ clarity  
☐ alterations/integrity  
☐ dates  
☐ boundary selection

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## 8. Significance

Period      Areas of Significance—Check and justify below

Specific dates      Builder/Architect

Statement of Significance (*in one paragraph*)

- ☐ summary paragraph
- ☐ completeness
- ☐ clarity
- ☐ applicable criteria
- ☐ justification of areas checked
- ☐ relating significance to the resource
- ☐ context
- ☐ relationship of integrity to significance
- ☐ justification of exception
- ☐ other

Angela, William T., Four-Row Carousels  
(Carousels Historic Wooden Carousels II)  
Harrison County  
OK

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## 9. Major Bibliographical References

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## 10. Geographical Data

Acreage of nominated property \_\_\_\_\_

Quadrangle name \_\_\_\_\_

UTM References \_\_\_\_\_

Verbal boundary description and justification \_\_\_\_\_

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## 11. Form Prepared By

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## 12. State Historic Preservation Officer Certification

The evaluated significance of this property within the state is:

\_\_\_\_ national      \_\_\_\_ state      \_\_\_\_ local

State Historic Preservation Officer signature

title      date

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## 13. Other

- ☐ Maps
- ☐ Photographs
- ☐ Other

Questions concerning this nomination may be directed to \_\_\_\_\_

Signed \_\_\_\_\_ Date \_\_\_\_\_ Phone: \_\_\_\_\_





Oregon Historic Wooden Carousels TR

Mangels, William F., Four-Row  
Carousel (c. 1914)  
4033 SW Canyon Road  
Portland, Multnomah County, Oregon

Portland Carousel Museum Photo, 1987  
25 SW Salmon  
Portland, OR 97204

1 of 12  
General view, looking northwesterly

C. 1914

Wm. Mangels' 4-Row Carousel  
with Marcus Illions + Charles  
Carmel carved horses

45' Diameter Platform  
Located in Washington Park,  
Portland, Oregon

42 hand-carved horses  
(both standers + jumpers)  
mounted on brass poles

16 Sweeps  
18' Center pole



Oregon Historic Wooden Carousels TR

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Carousel (c. 1914)  
4033 SW Canyon Road  
Portland, Multnomah County, Oregon

Portland Carousel Museum Photo, 1987  
25 SW Salmon  
Portland, OR 97204

2 of 12  
Outside jumper with characteristic  
trappings.

Example of Marcus Illions  
carved jumping horse.

Hand-carved wooden  
carousel horse.

Note: Has glass eyes  
\*

Decorated with glass jewels  
Characteristic swept mane  
Wildness of horse's expression

\*Characteristics of Illion carvings.





Oregon Historic Wooden Carousels TR

Mangels, William F., Four-Row  
Carousel (c. 1914)  
4033 SW Canyon Road  
Portland, Multnomah County, Oregon

Portland Carousel Museum Photo, 1987  
25 SW Salmon  
Portland, OR 97204

3 of 12  
Detail of gear mechanism and electric  
motor.

Wm. Mangels drive system  
of c. 1914 Carousel

Electric motor  
Manual friction Clutch





Oregon Historic Wooden Carousels TR

Mangels, William F., Four-Row  
Carousel (c. 1914)  
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Portland Carousel Museum Photo, 1987  
25 SW Salmon  
Portland, OR 97204

4 of 12  
General view, looking northwesterly.



## Oregon Historic Wooden Carousels TR

Mangels, William F., Four-Row  
Carousel (c. 1914)  
4033 SW Canyon Road  
Portland, Multnomah County, Oregon

Portland Carousel Museum Photo, 1987  
25 SW Salmon  
Portland, OR 97204

5 of 12  
Detail of gear mechanism and electric  
motor.





Oregon Historic Wooden Carousels TR

Mangels, William F., Four-Row  
Carousel (c. 1914)  
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Portland Carousel Museum Photo, 1987  
25 SW Salmon  
Portland, OR 97204

7 of 12

Detail of jumper's dramatic expression  
and stylized, feathery mane.





Oregon Historic Wooden Carousels TR

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Carousel (c. 1914)  
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Portland, Multnomah County, Oregon

Portland Carousel Museum Photo, 1987  
25 SW Salmon  
Portland, OR 97204

8 of 12  
Detail of saddle back embellished  
with wolf's head; horse hair tail.



Oregon Historic Wooden Carousels TR

Mangels, William F., Four-Row  
Carousel (c. 1914)  
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Portland, Multnomah County, Oregon

Portland Carousel Museum Photo, 1987  
25 SW Salmon  
Portland, OR 97204

9 of 12  
Inside jumper.





Oregon Historic Wooden Carousels TR

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Carousel (c. 1914)  
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Portland Carousel Museum Photo, 1987  
25 SW Salmon  
Portland, OR 97204

10 of 12  
Two standers, side by side.





Oregon Historic Wooden Carousels TR

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Portland Carousel Museum Photo, 1987  
25 SW Salmon  
Portland, OR 97204

11 of 12  
General view of interior.



Oregon Historic Wooden Carousels TR

Mangels, William F., Four-Row  
Carousel (c. 1914)  
4033 SW Canyon Road  
Portland, Multnomah County, Oregon

Portland Carousel Museum Photo, 1987  
25 SW Salmon  
Portland, OR 97204

12 of 12  
Chariot superbly modeled with  
painted plaster gryphon.



### Missing Core Documentation

Property Name County, State	Multiple Property Name	Reference Number
Mangels, William F., Four-Row Carousel, Multnomah, OR	Oregon Historic Wooden Carousels TR	87001383

The following Core Documentation is missing from this entry:

☐ Nomination Form

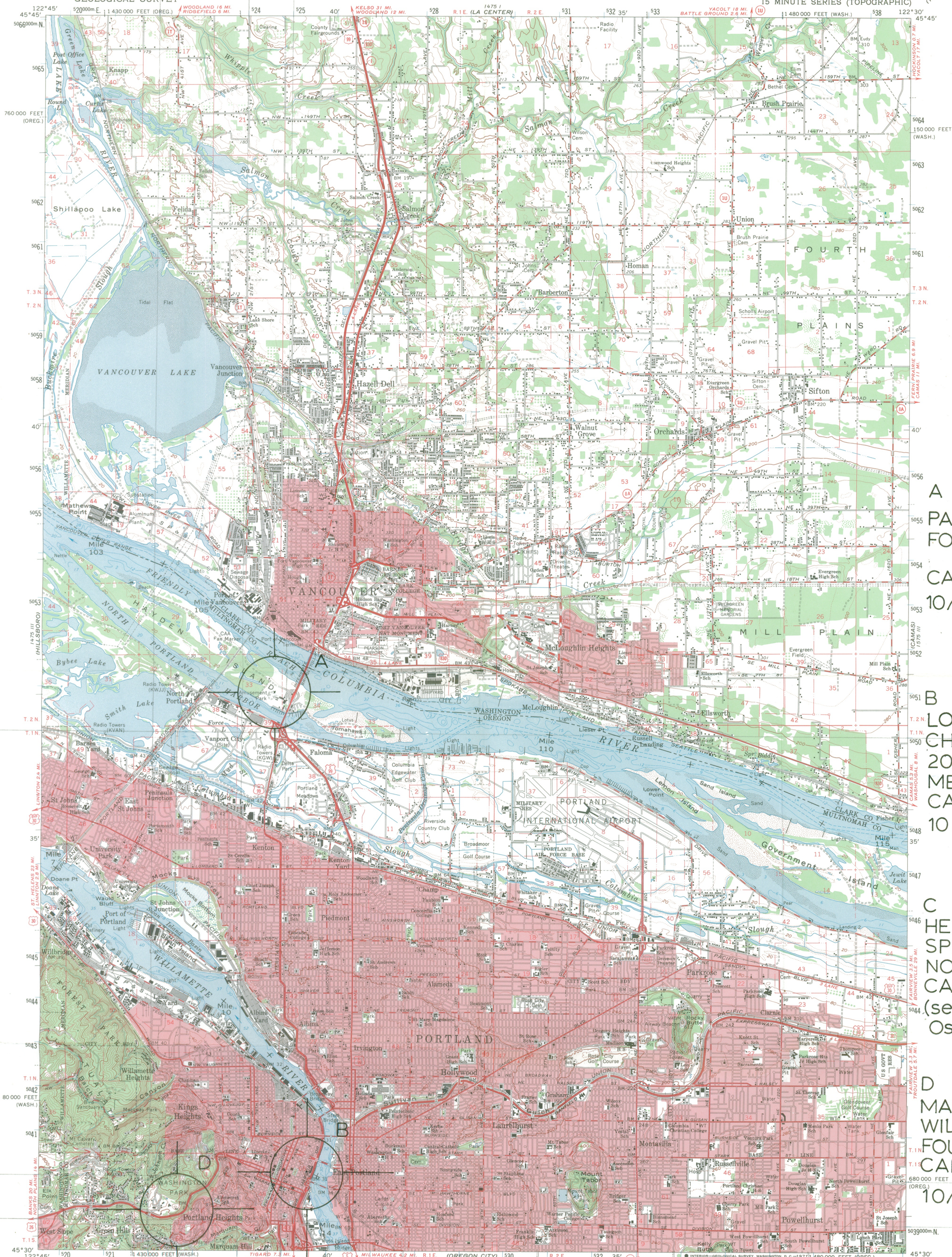
☒ Photograph #6

☐ USGS Map



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

PORTLAND QUADRANGLE  
WASHINGTON-OREGON  
15 MINUTE SERIES (TOPOGRAPHIC)



A  
PARKER, C.W.,  
FOUR-ROW  
PARK  
CAROUSEL  
10/524750  
5050900

B  
LOOFF,  
CHARLES,  
20-SWEEP  
MENAGERIE  
CAROUSEL  
10/525575  
5040100

C  
HERSCHELL-  
SPILLMAN  
NOAH'S ARK  
CAROUSEL  
(see Lake  
Oswego Quad)

D  
MANGELS,  
WILLIAM F.,  
FOUR-ROW  
CAROUSEL  
10/522675  
5039225

OREGON HISTORIC WOODEN CAROUSELS TR

Mapped, edited, and published by the Geological Survey  
Control by USGS, USC&GS, USCE, and State of Oregon  
Compiled in 1962 from 1:24 000-scale maps dated 1961  
Selected hydrographic data compiled from USC&GS Charts  
6154 (1959), 6155 (1961), and 6156 (1959)  
This information is not intended for navigational purposes  
Polyconic projection. 1927 North American datum  
10,000-foot grids based on Washington coordinate system,  
south zone, and Oregon coordinate system, north zone  
1000-meter Universal Transverse Mercator grid ticks,  
zone 10, shown in blue  
Red tint indicates areas in which only landmark buildings are shown

SCALE 1:62500  
CONTOUR INTERVAL 40 FEET  
DOTTED LINES REPRESENT 20-FOOT CONTOURS  
DATUM IS MEAN SEA LEVEL  
DEPTH CURVES AND SOUNDINGS IN FEET—COLUMBIA RIVER DATUM  
SHORELINE SHOWS REPRESENTS THE APPROXIMATE LINE OF MEAN HIGH WATER  
THE MEAN RANGE OF TIDE IS APPROXIMATELY 2 FEET

Heavy-duty ——— Light-duty ———  
Medium-duty ——— Unimproved dirt ———  
Interstate Route ——— U.S. Route ——— State Route ———



PORTLAND, WASH.—OREG.  
N4530—W1230/15

1961

AMS 1475 II—SERIES V791

CAPTAIN'S NAUTICAL SUPPLIES  
817 S.W. 2nd (503) 227-1648  
PORTLAND, OREGON 97204

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS  
FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225 OR WASHINGTON, D.C. 20242  
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST