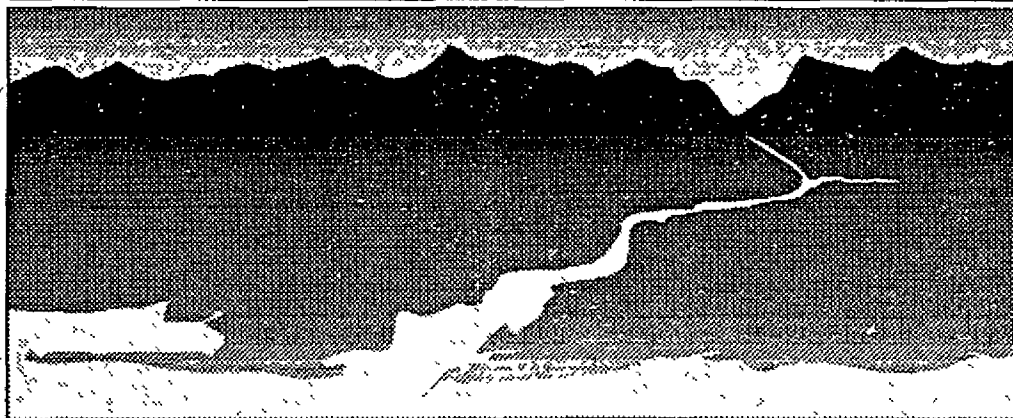


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**FINAL REPORT  
VOLUME 2: FIGURES**

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**LOWER COLUMBIA RIVER**



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**BI-STATE PROGRAM**

---

**RECONNAISSANCE  
SURVEY OF THE LOWER  
COLUMBIA RIVER**

**TASK 5: BENEFICIAL USE DESCRIPTIONS  
AND LOCATIONS**

**APRIL 1992**

Prepared By:

**TETRA TECH**

In Association With:

**DAVID EVANS & ASSOCIATES  
EVS CONSULTANTS**

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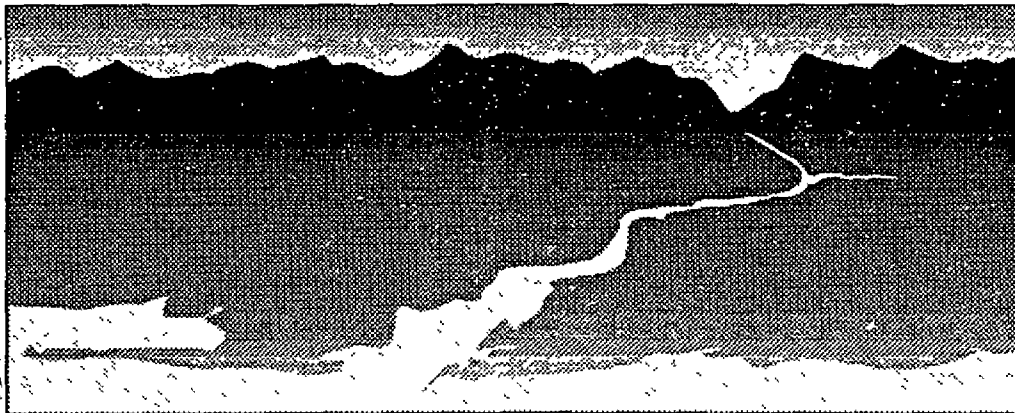
**TETRA TECH**

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FINAL REPORT  
VOLUME 2: FIGURES

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# LOWER COLUMBIA RIVER



# BI-STATE PROGRAM

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## RECONNAISSANCE SURVEY OF THE LOWER COLUMBIA RIVER

### TASK 5: BENEFICIAL USE DESCRIPTIONS AND LOCATIONS

APRIL 1992

Prepared By:

**TETRA TECH**

In Association With:

DAVID EVANS & ASSOCIATES  
EVS CONSULTANTS

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# TETRA TECH

**TC 8526-05  
FINAL REPORT  
VOLUME 2: FIGURES**

# **RECONNAISSANCE SURVEY OF THE LOWER COLUMBIA RIVER**

## **TASK 5 BENEFICIAL USE DESCRIPTIONS AND LOCATIONS**

**APRIL 1992**

**Prepared For:**

**The Lower Columbia River  
Bi-State Water Quality Program**

**Prepared By:**

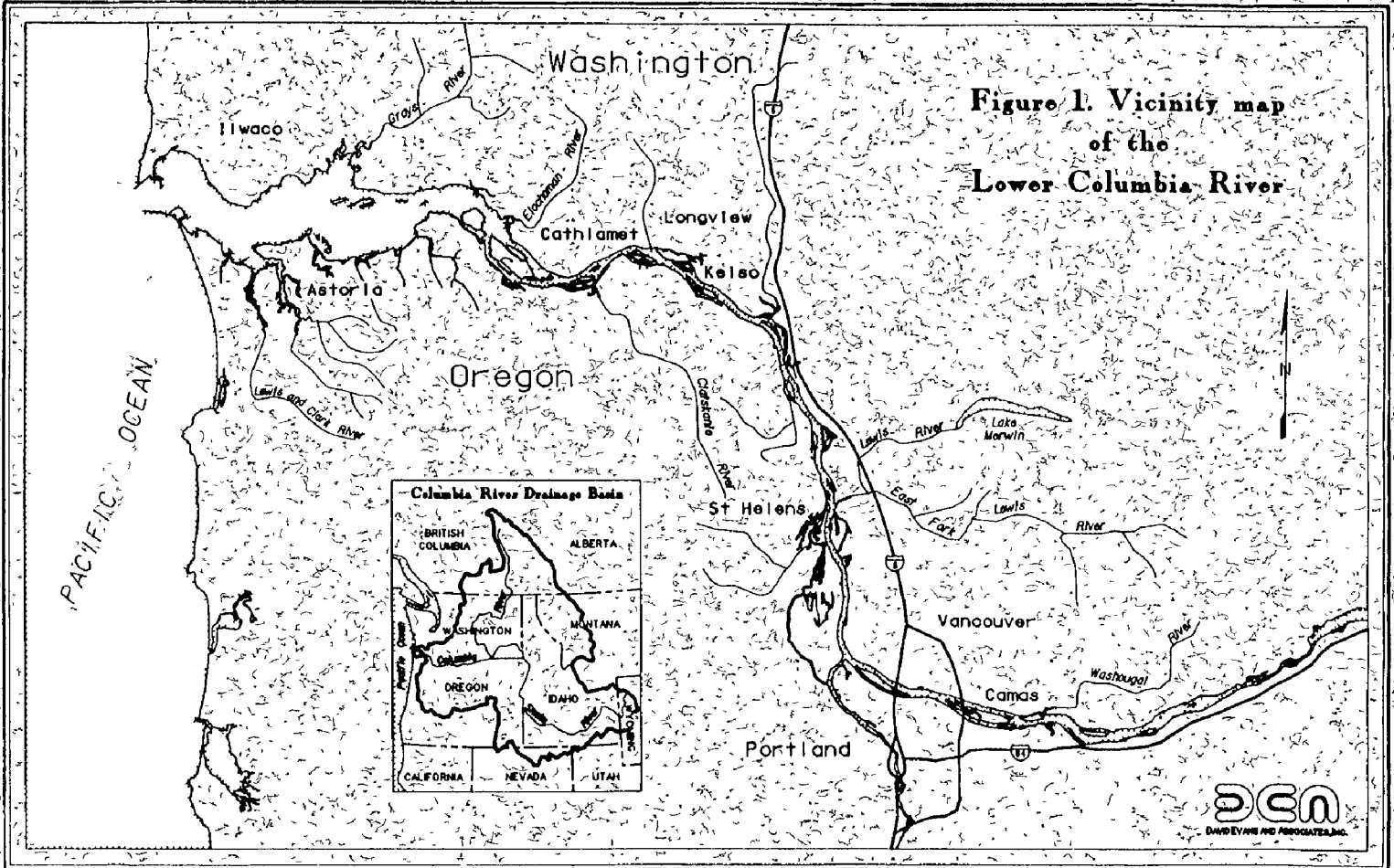
**TETRA TECH  
11820 NORTHUP WAY, SUITE 100E  
BELLEVUE, WA 98005**

**In Association With  
DAVID EVANS & ASSOCIATES  
EVS CONSULTANTS**

## VOLUME 2

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4A-4D	Fish Use	Volume 2
5A-5D	Plant and Wildlife Use	Volume 2
6A-6D	Recreational Use	Volume 2



**Figure 1. Vicinity map of the Lower Columbia River**

**DCN**  
DAVID EVANS AND ASSOCIATES, INC.

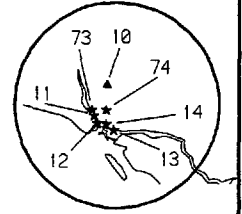
# COLUMBIA RIVER BI-STATE WATER QUALITY PROGRAM

WASHINGTON

Pacific County

Wahkiakum County

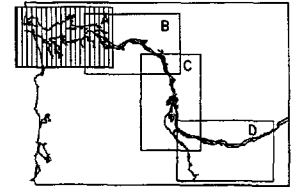
Pacific Ocean



- LEGEND**
- ★ Domestic Use
  - ⊕ Industrial Use
  - ▲ Domestic & Industrial Use
  - 1701 ID Number
  - # River Mile
  - Match Line
  - - - County Line

Clatsop County

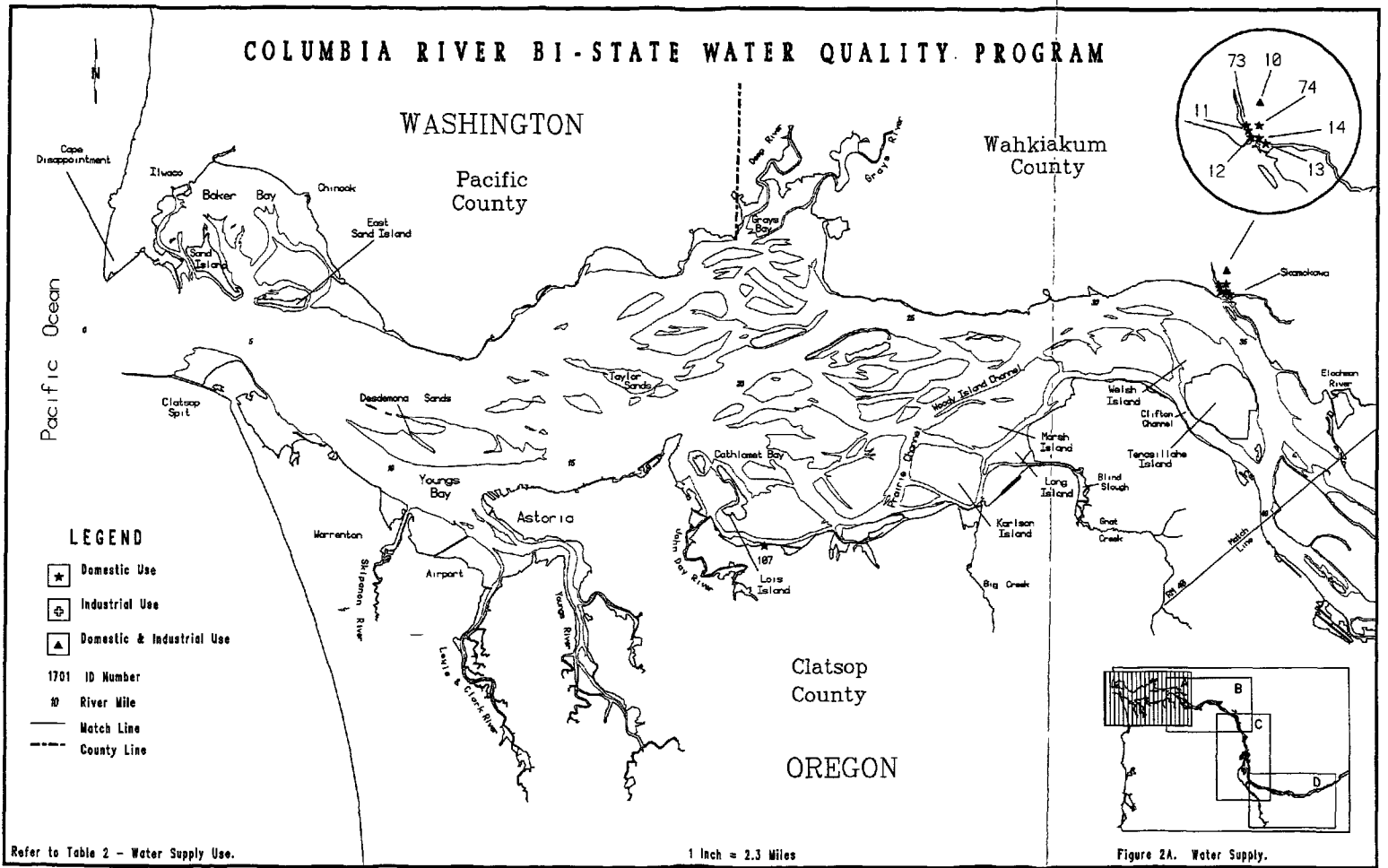
OREGON



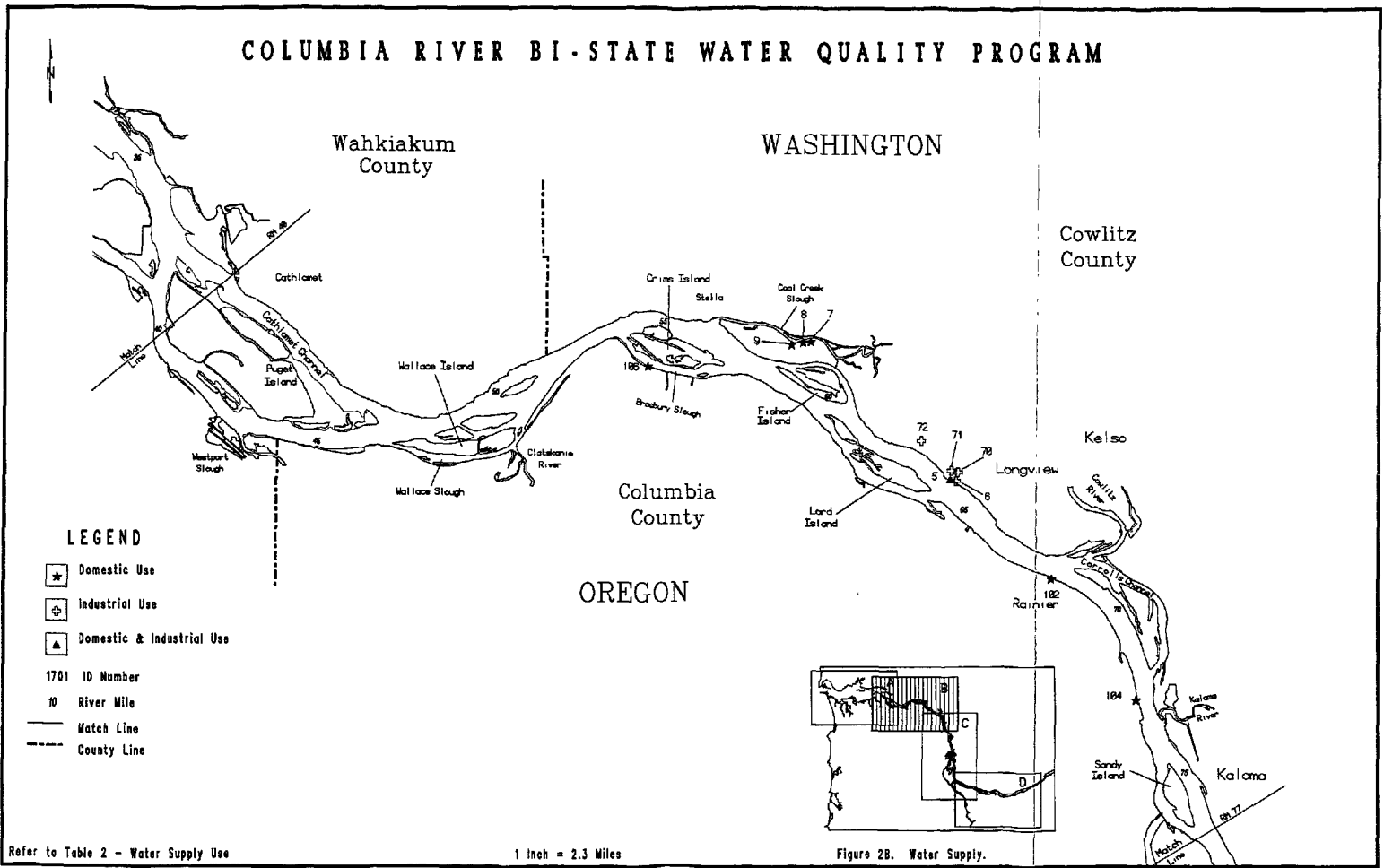
Refer to Table 2 - Water Supply Use.

1 Inch = 2.3 Miles

Figure 2A. Water Supply.



# COLUMBIA RIVER BI-STATE WATER QUALITY PROGRAM



## LEGEND

- ★ Domestic Use
- ⊠ Industrial Use
- ▲ Domestic & Industrial Use
- 1701 ID Number
- 10 River Mile
- Match Line
- - - County Line

Refer to Table 2 - Water Supply Use

1 Inch = 2.3 Miles

Figure 28. Water Supply.

# COLUMBIA RIVER BI-STATE WATER QUALITY PROGRAM

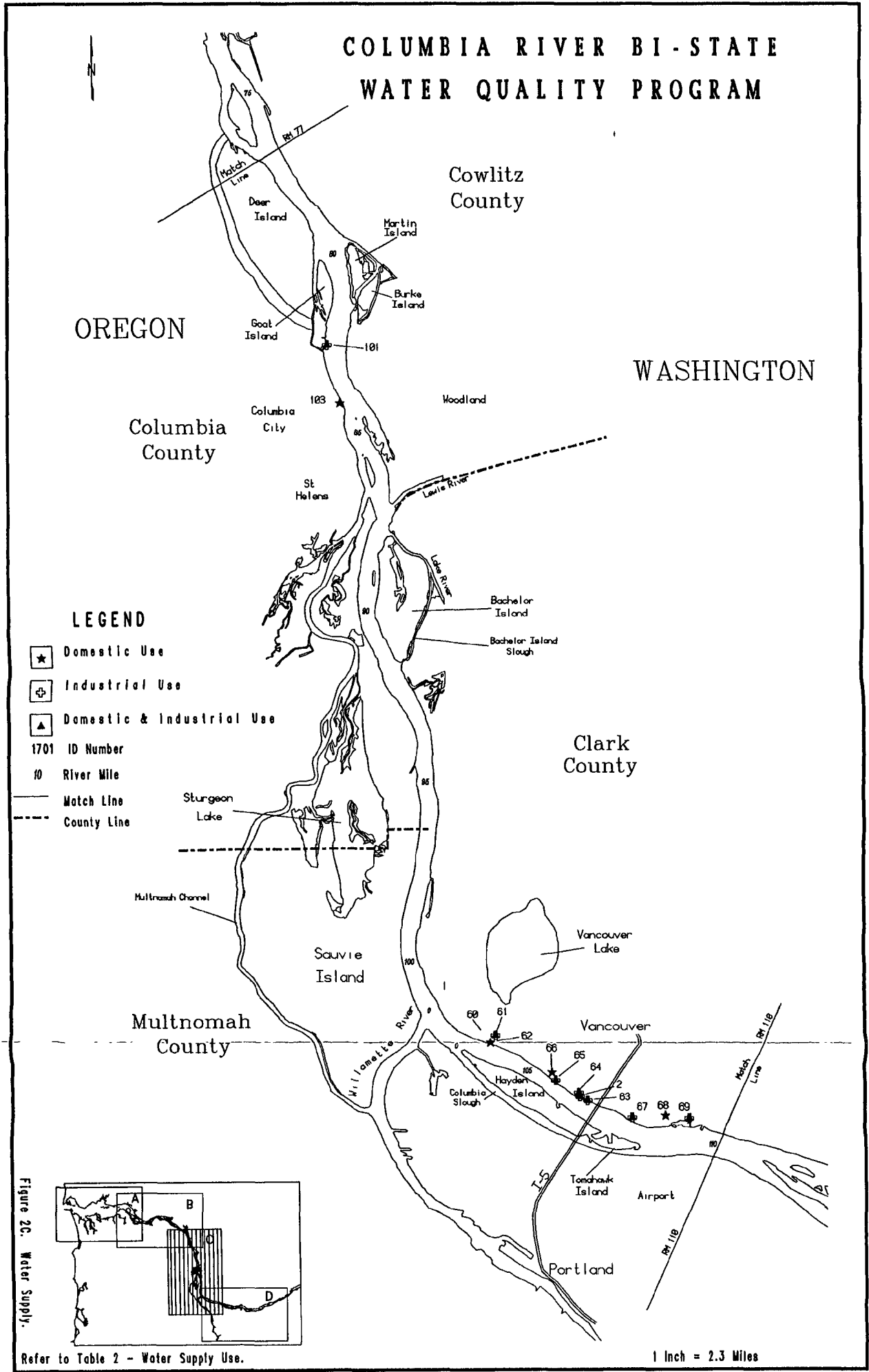


Figure 20. Water Supply.

Refer to Table 2 - Water Supply Use.



# COLUMBIA RIVER BI-STATE WATER QUALITY PROGRAM

WASHINGTON




Clark  
County

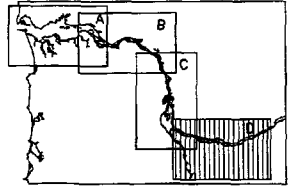
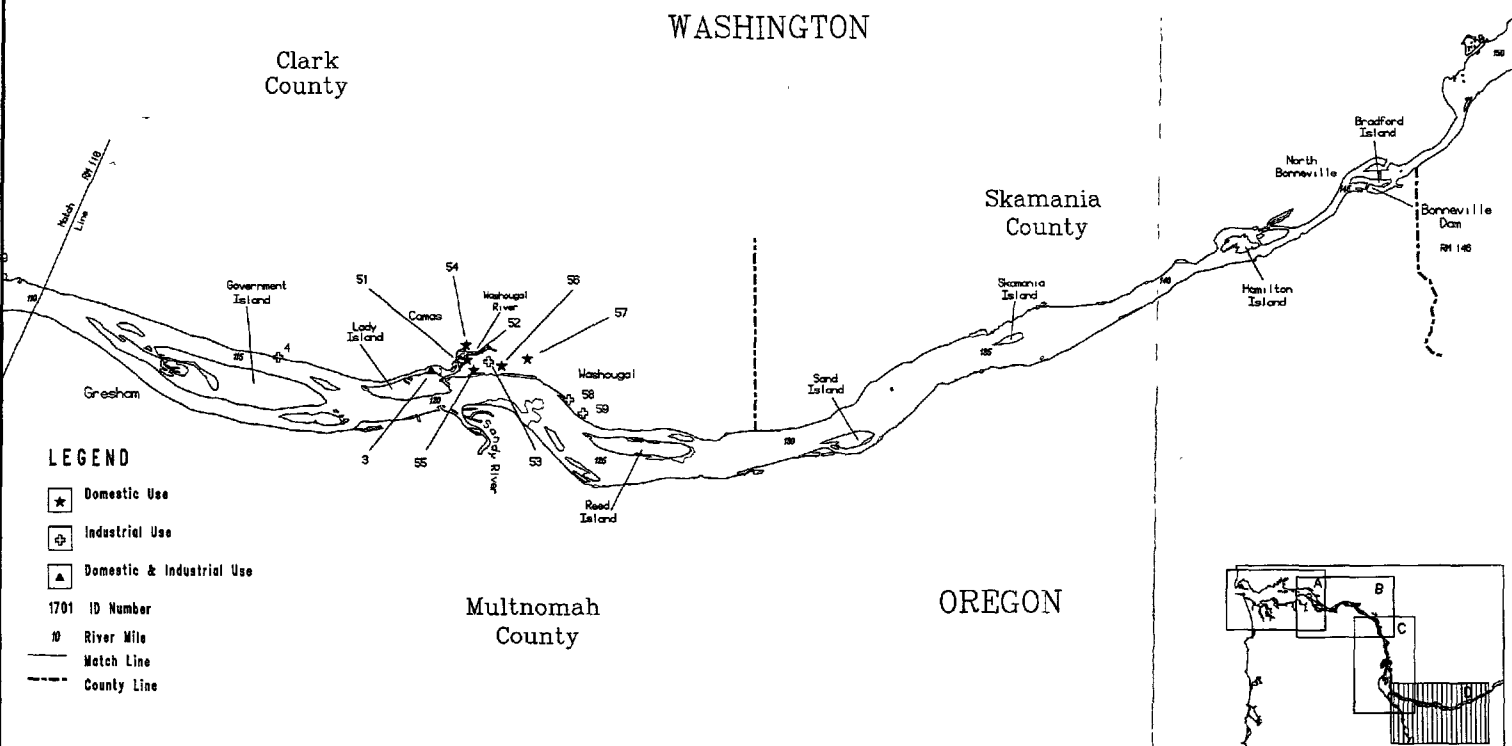
Skamania  
County

Multnomah  
County

OREGON

## LEGEND

-  Domestic Use
-  Industrial Use
-  Domestic & Industrial Use
- 1701 ID Number
- 10 River Mile
- Match Line
- - - County Line



Refer to Table 2 - Water Supply Use.

1 inch = 2.3 Miles

Figure 20. Water Supply.

# COLUMBIA RIVER BI-STATE WATER QUALITY PROGRAM

WASHINGTON

Wahkiakum County




Pacific County

Clatsop County

OREGON

Pacific Ocean

## LEGEND

-  Irrigated Crops
-  Livestock
-  Irrigated Crops & Livestock
- 1701 ID Number
- 10 River Mile
- Match Line
- - - County Line

Refer to Table 4 - Agricultural Uses.

1 Inch = 2.3 Miles

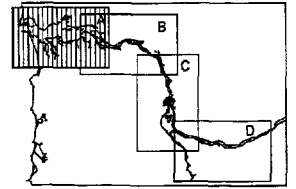
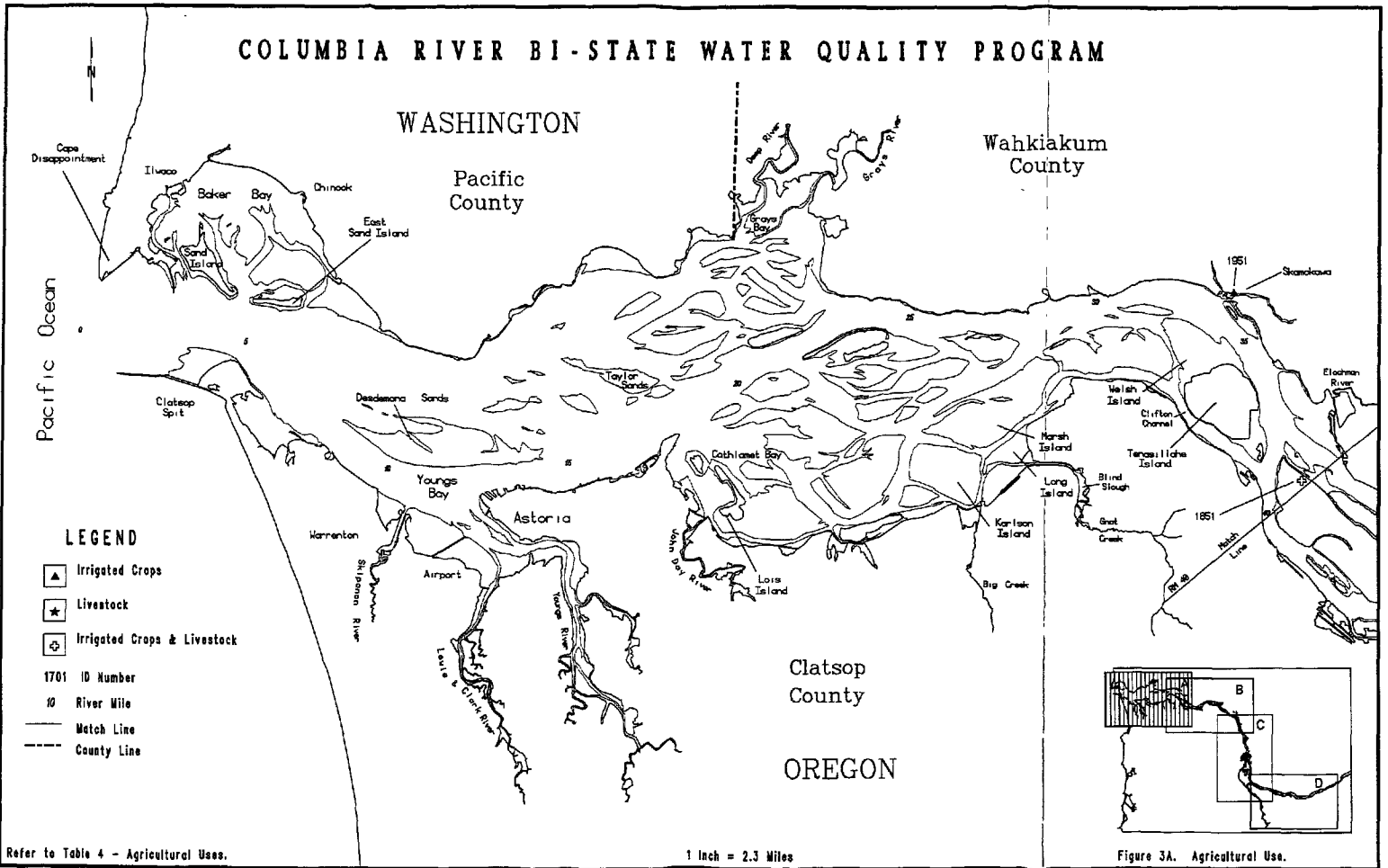
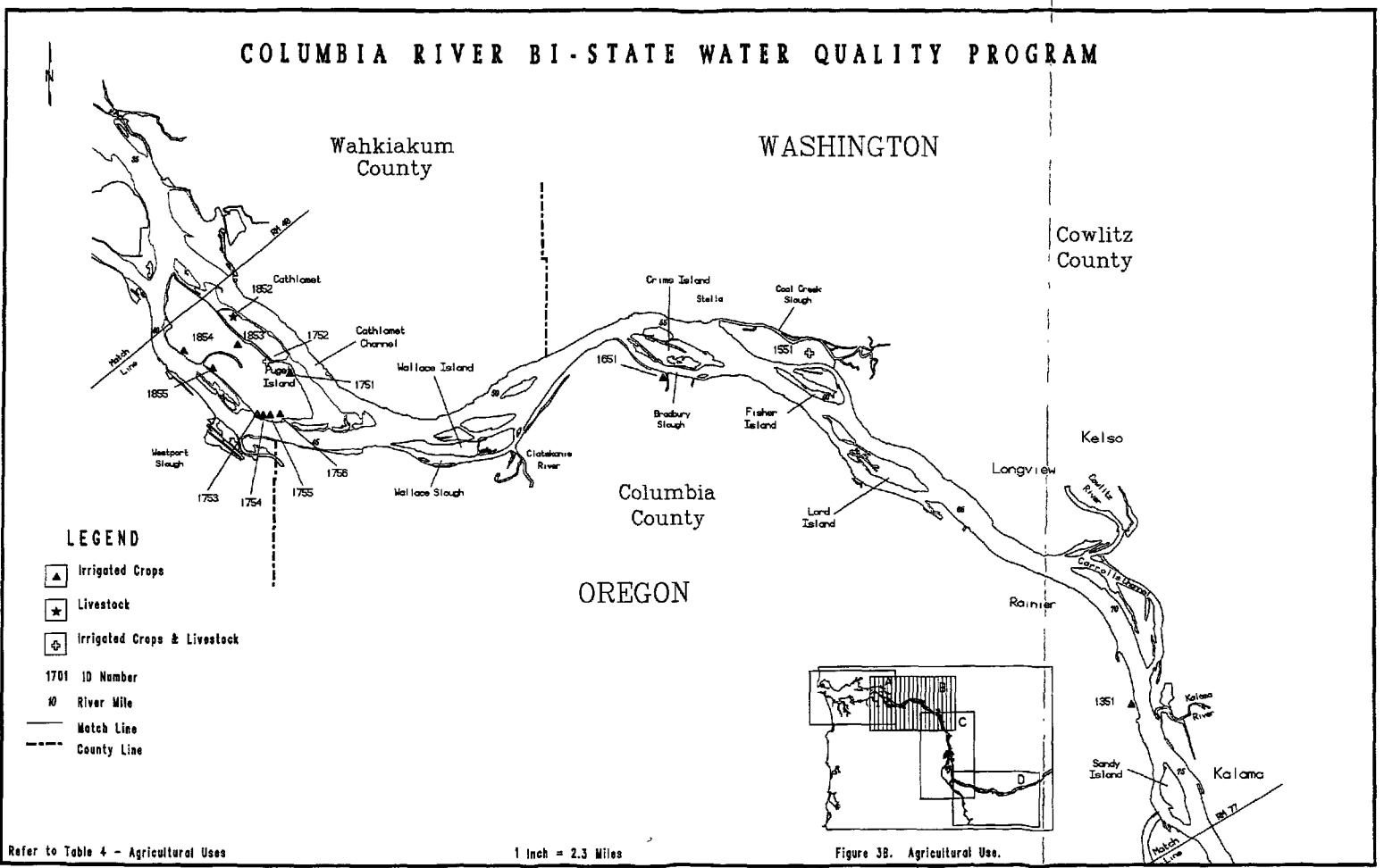


Figure 3A. Agricultural Use.



# COLUMBIA RIVER BI-STATE WATER QUALITY PROGRAM



# COLUMBIA RIVER BI-STATE WATER QUALITY PROGRAM

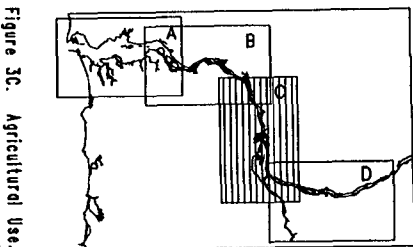
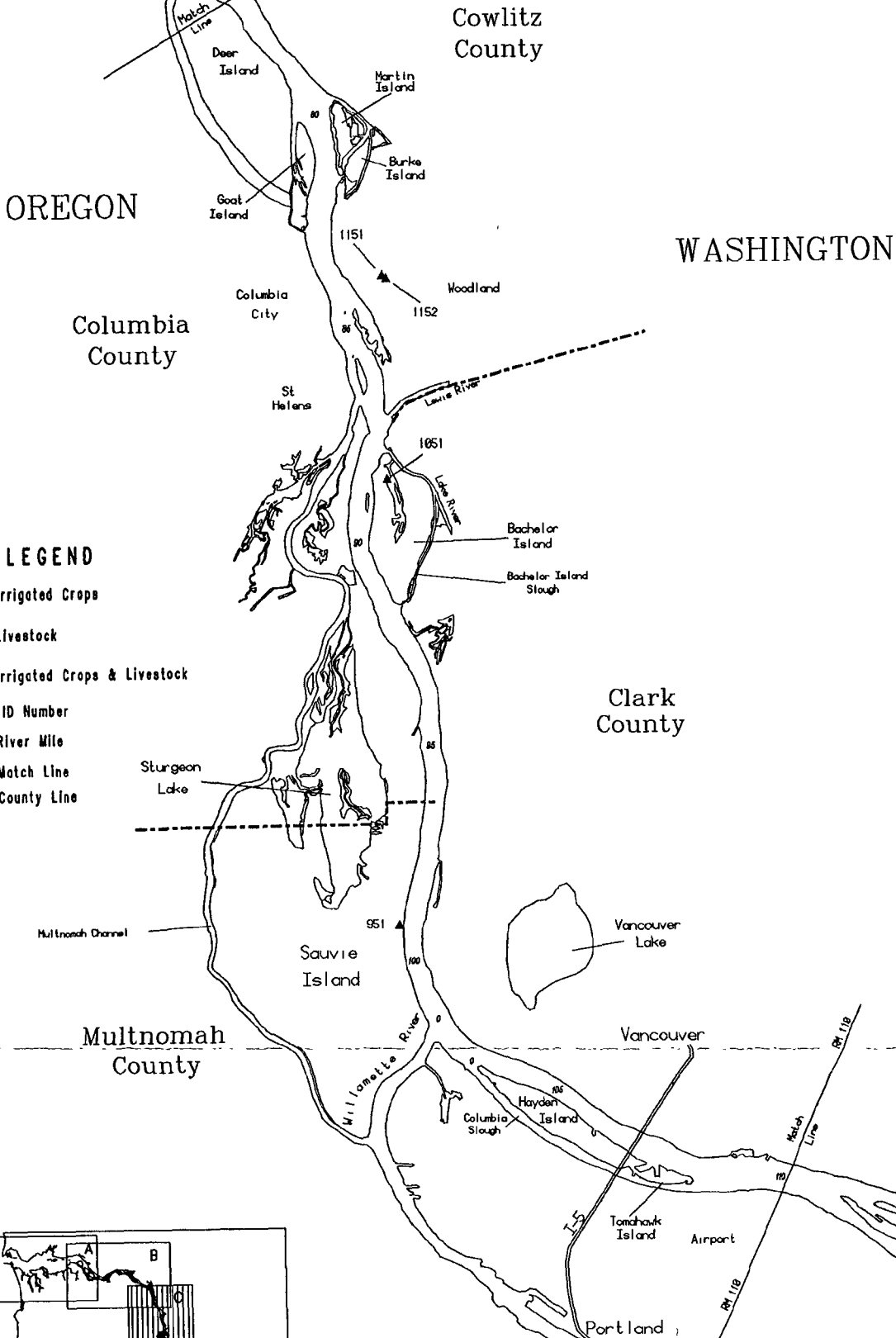


Figure 3C. Agricultural Use.  
Refer to Table 4 - Agricultural Uses.

1 Inch = 2.3 Miles

# COLUMBIA RIVER BI-STATE WATER QUALITY PROGRAM

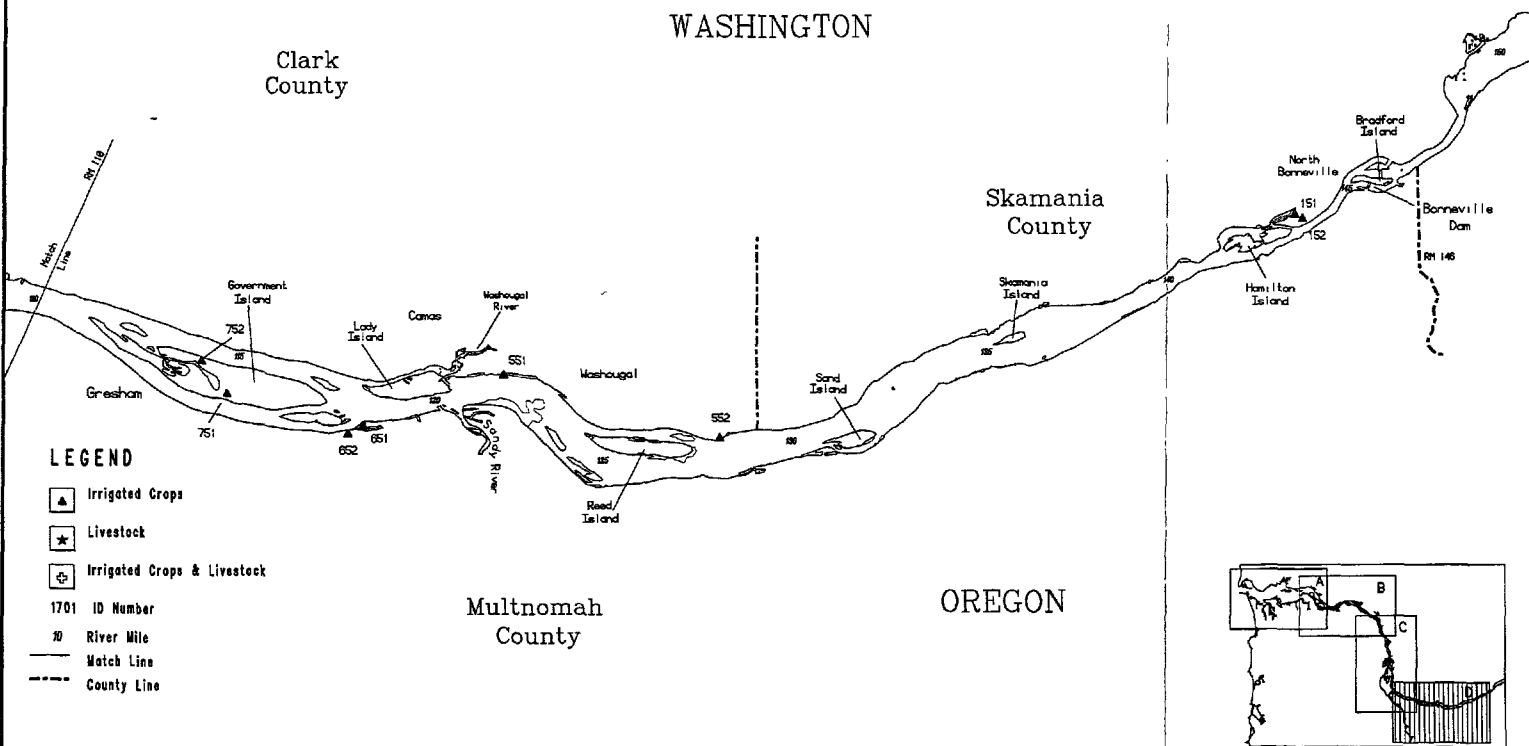
WASHINGTON

Clark County

Skamania County

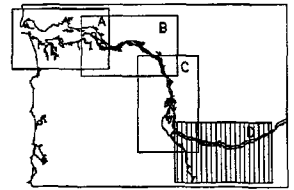
Multnomah County

OREGON



## LEGEND

- Irrigated Crops
- Livestock
- Irrigated Crops & Livestock
- 1701 ID Number
- RD River Mile
- Match Line
- - - County Line



Refer to Table 4 - Agricultural Uses.

1 Inch = 2.3 Miles

Figure 3D. Agricultural Use.

# COLUMBIA RIVER BI-STATE WATER QUALITY PROGRAM

WASHINGTON

Wahkiakum County

Pacific County






Pacific Ocean

Plume & Ocean Zone

Estuarine Mixing Zone

Tidal - Fluvial Zone

**LEGEND**

-  Fish Hatchery
-  Power Production Facility
-  River Mile
-  Match Line
-  County Line

Warrenton

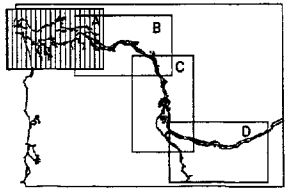
Youngs Bay

Astoria

Cathlamet Bay

Clatsop County

OREGON

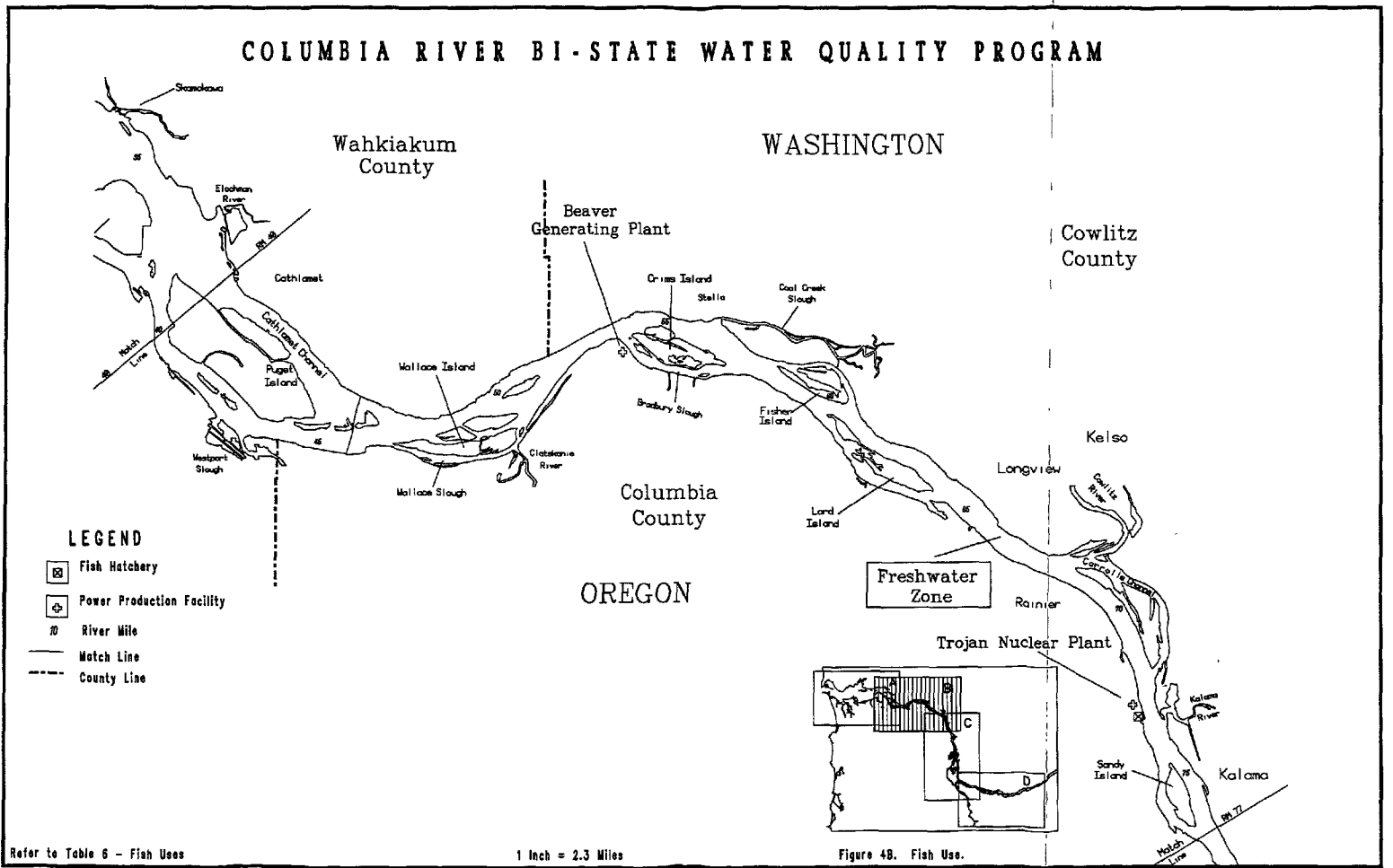


Refer to Table 6 - Fish Uses.

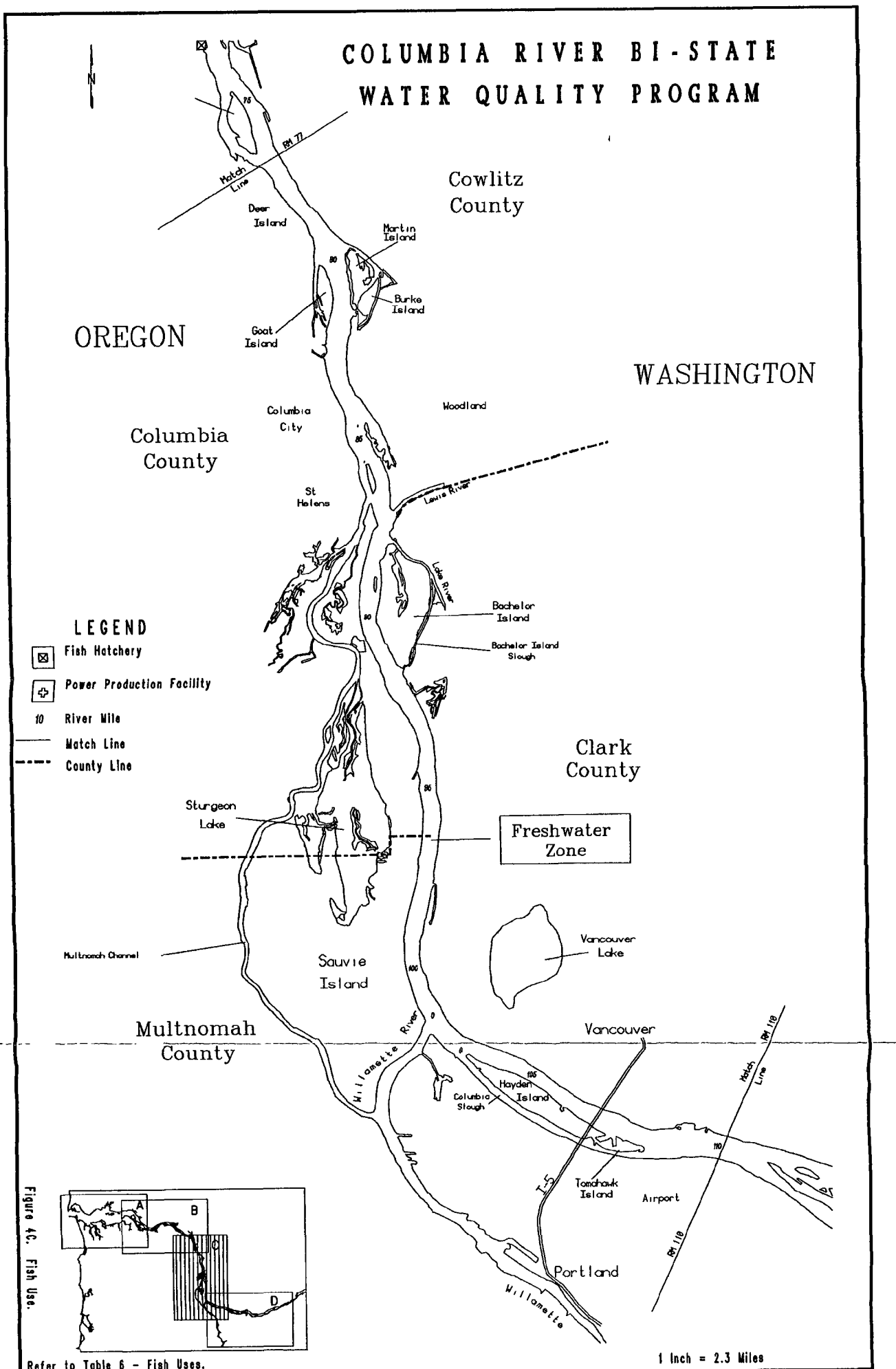
1 Inch = 2.3 Miles

Figure 4A. Fish Use.

# COLUMBIA RIVER BI-STATE WATER QUALITY PROGRAM



# COLUMBIA RIVER BI-STATE WATER QUALITY PROGRAM



OREGON

WASHINGTON



Cowlitz  
County

Columbia  
County

Clark  
County

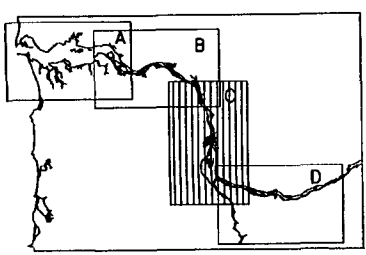
Multnomah  
County

**LEGEND**

-  Fish Hatchery
-  Power Production Facility
- 10 River Mile
- Match Line
- - - County Line

Freshwater  
Zone

Figure 4C. Fish Use.



Refer to Table 6 - Fish Uses.

1 Inch = 2.3 Miles



# COLUMBIA RIVER BI-STATE WATER QUALITY PROGRAM

WASHINGTON


Clark  
County

Skamania  
County

Multnomah  
County

OREGON

## LEGEND

 Fish Hatchery

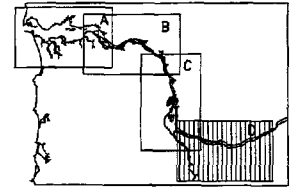
 Power Production Facility

 River Mile

 Match Line

 County Line

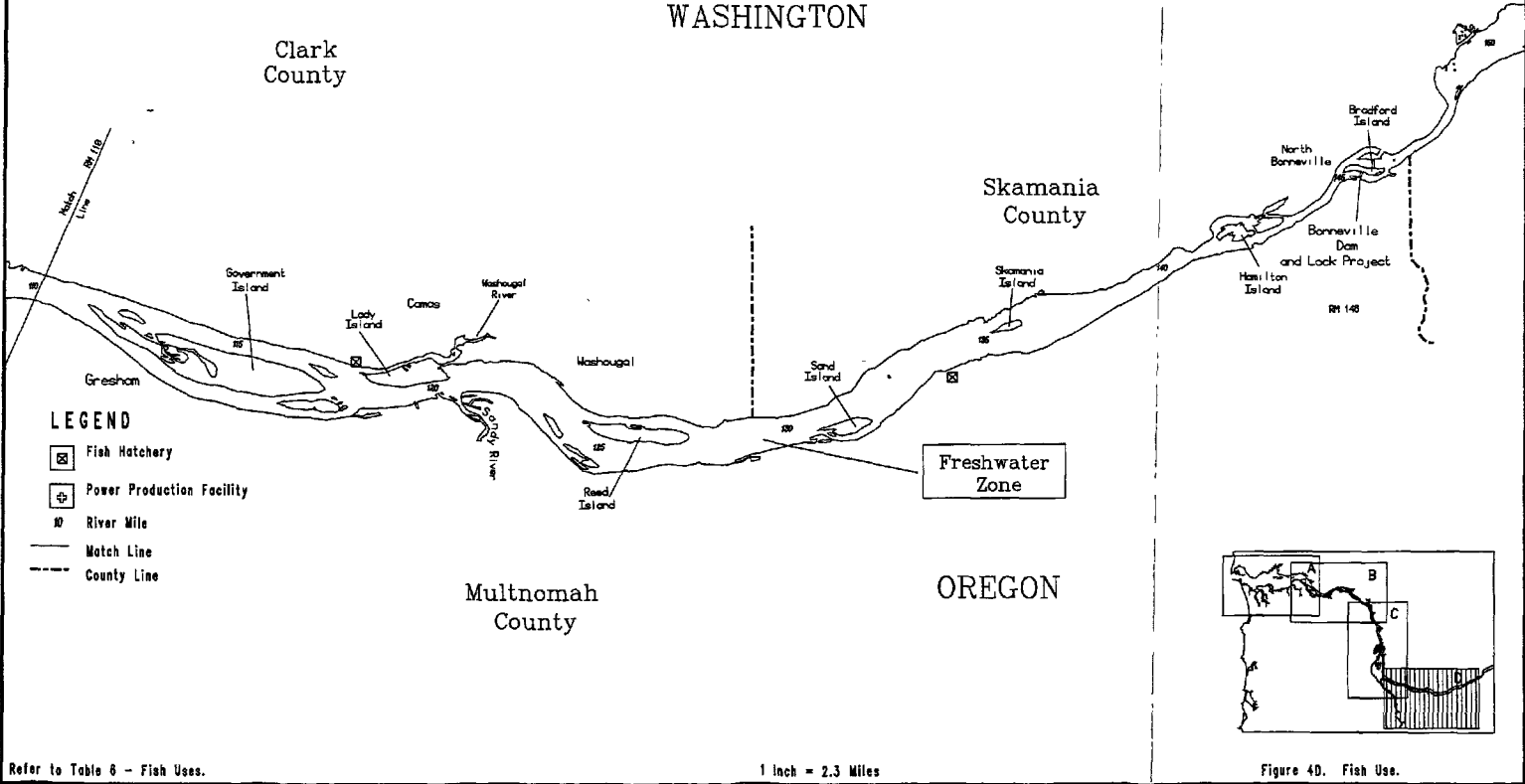
Freshwater  
Zone



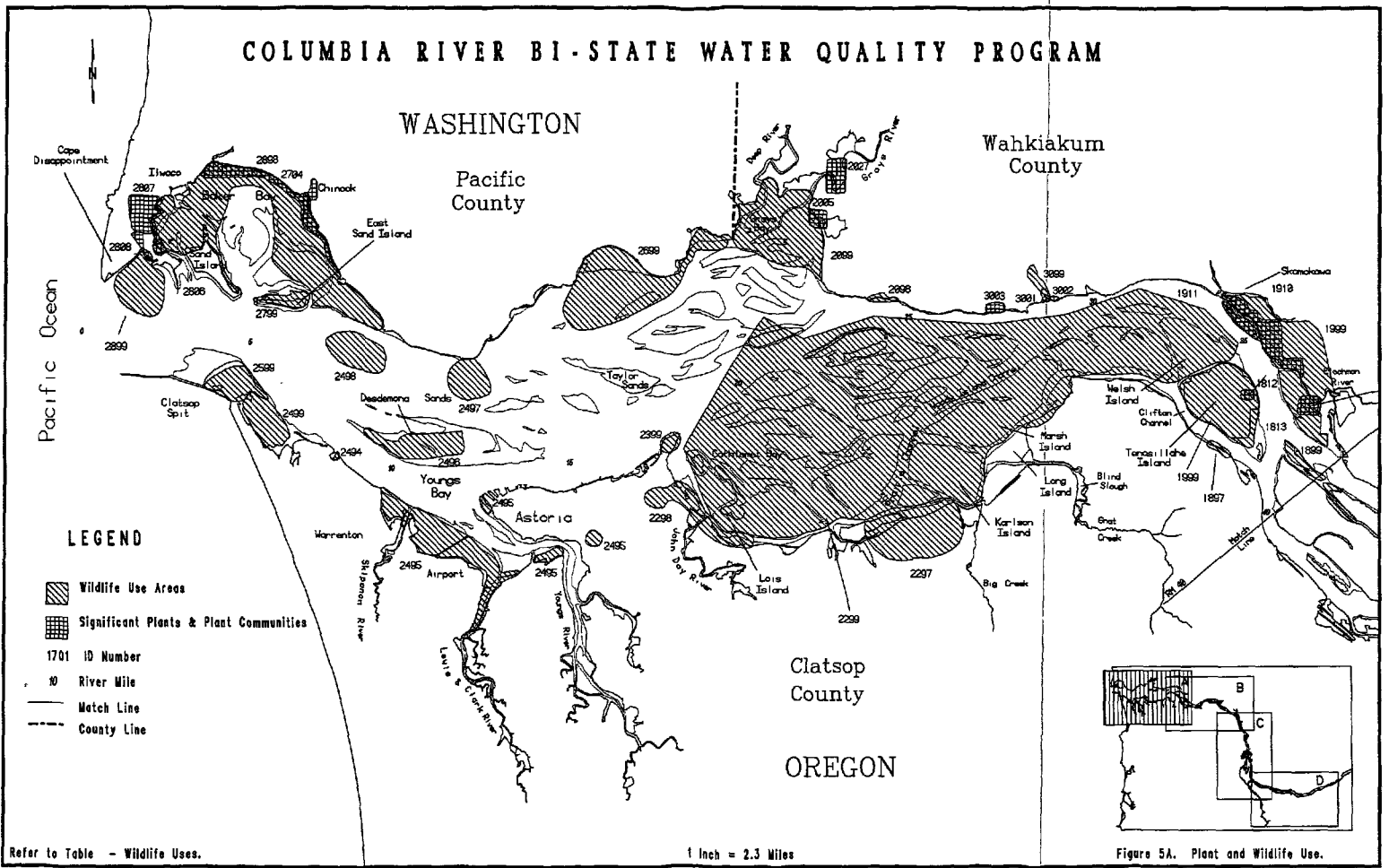
Refer to Table 8 - Fish Uses.

1 inch = 2.3 Miles

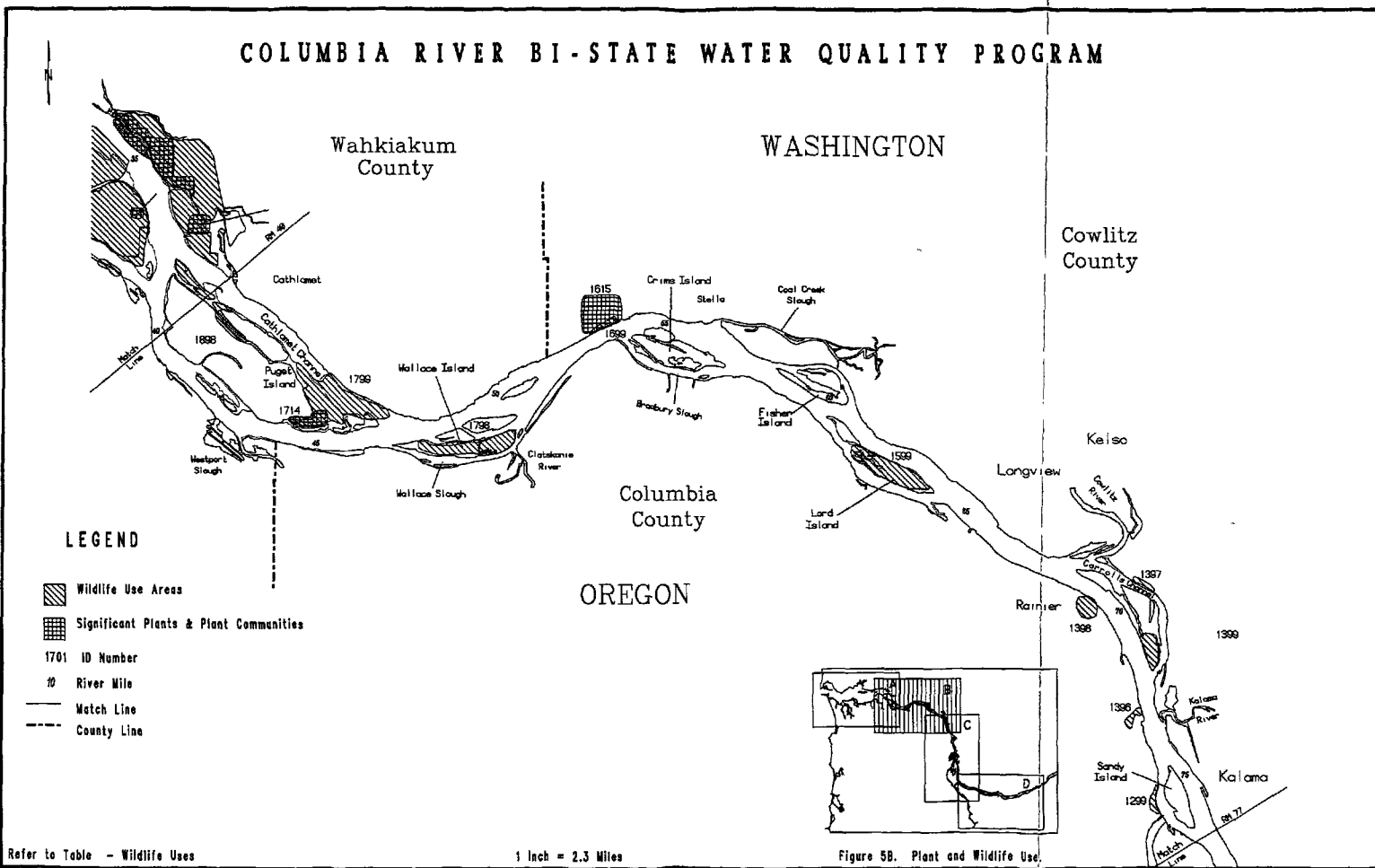
Figure 4D. Fish Use.



# COLUMBIA RIVER BI-STATE WATER QUALITY PROGRAM



# COLUMBIA RIVER BI-STATE WATER QUALITY PROGRAM



Wahkiakum County

WASHINGTON

Cowlitz County

Cathlamet

1815

Grims Island

Cool Creek Slough

1898

Puget Island

Wallace Island

1798

Clatskanie River

Columbia County

OREGON

Shady Slough

Fisher Island

1569

Land Island

Longview

Keiso

1387

Rainier

1398

1399

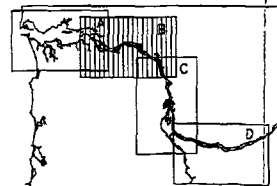
1396

Sandy Island

1299

Kalama

1297



# COLUMBIA RIVER BI-STATE WATER QUALITY PROGRAM

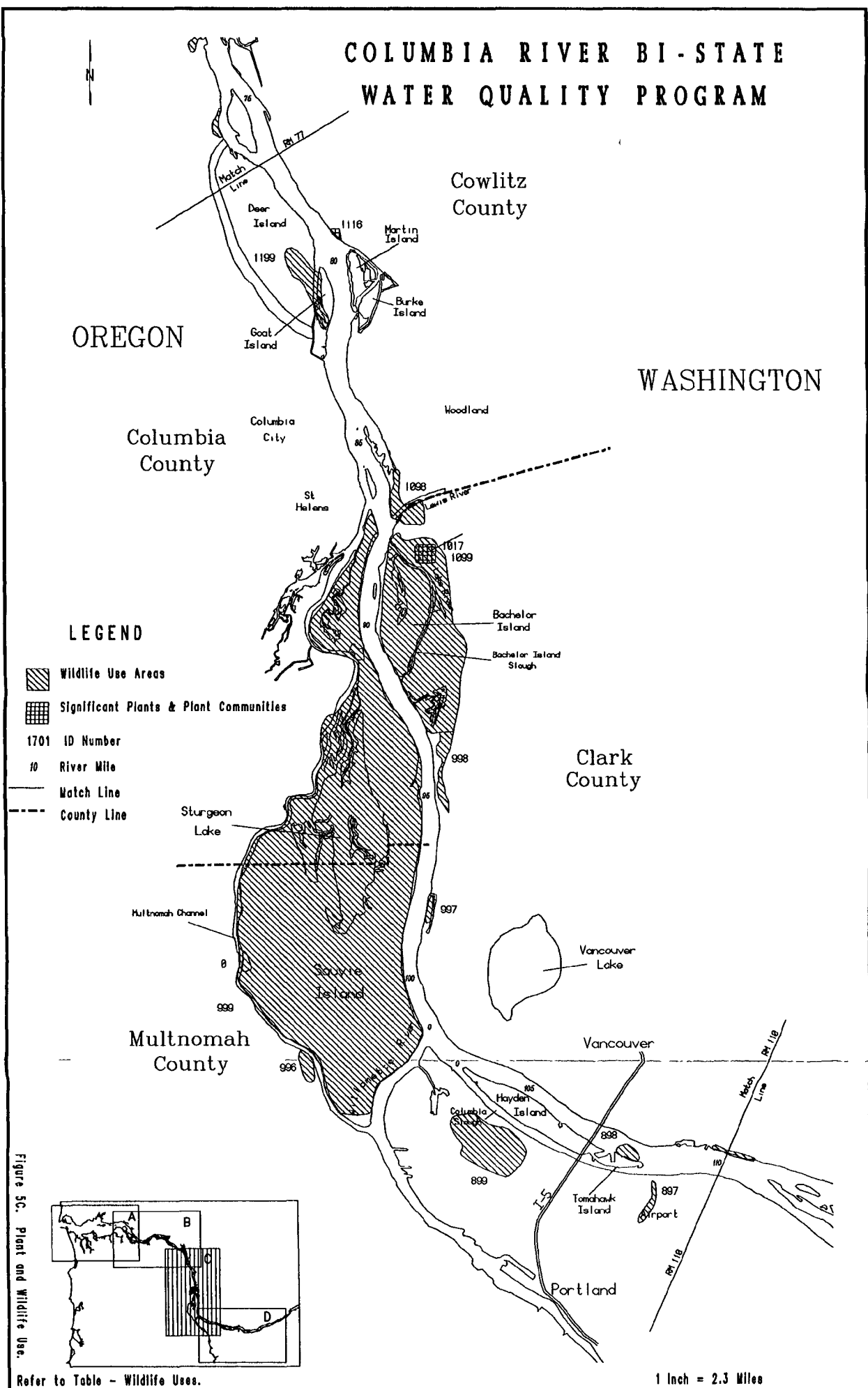


Figure 5c. Plant and Wildlife Use.

Refer to Table - Wildlife Uses.

# COLUMBIA RIVER BI-STATE WATER QUALITY PROGRAM

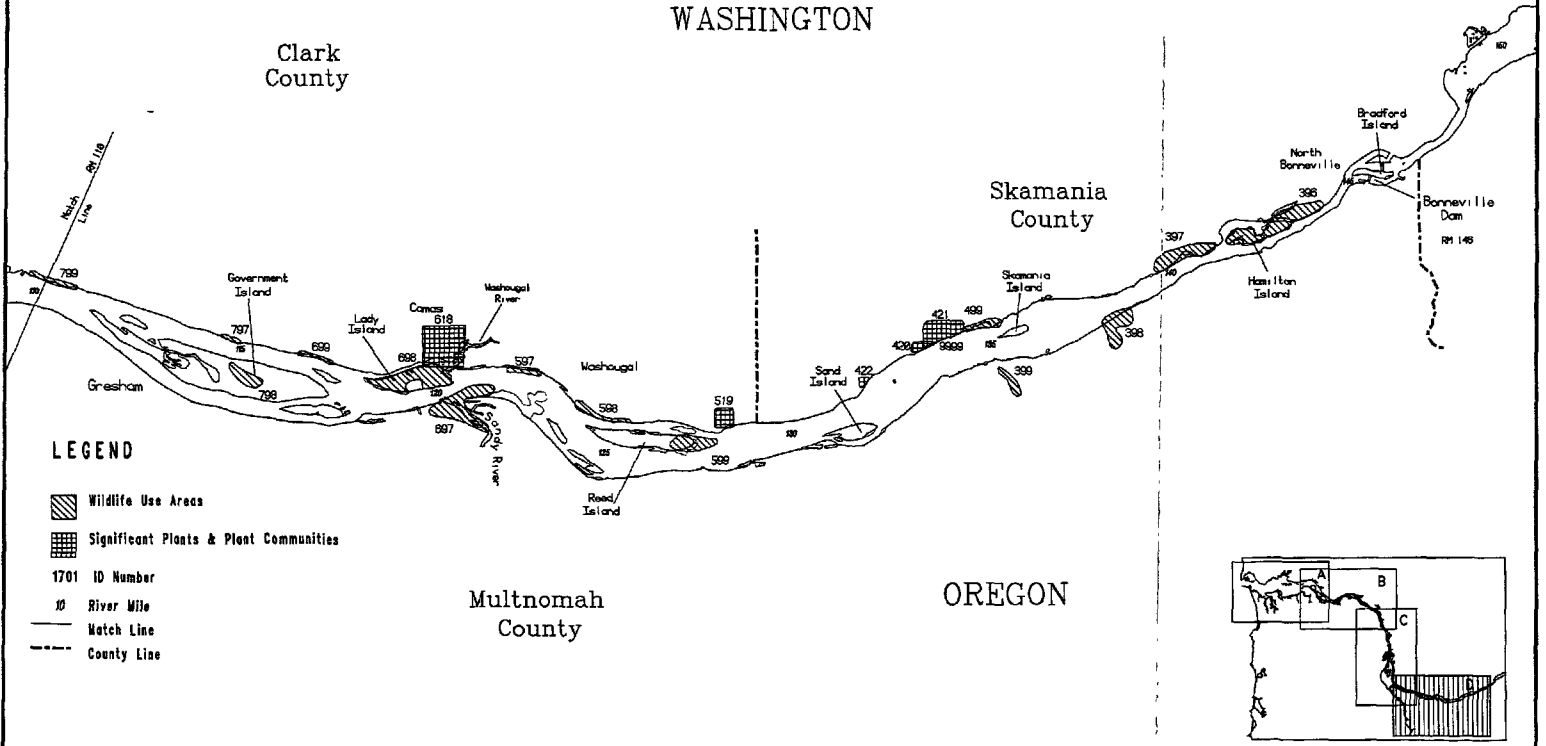
WASHINGTON

Clark  
County






Skamania  
County

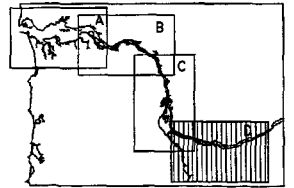
Multnomah  
County

OREGON



## LEGEND

-  Wildlife Use Areas
-  Significant Plants & Plant Communities
- 1701 ID Number
-  River Mile
-  Match Line
-  County Line

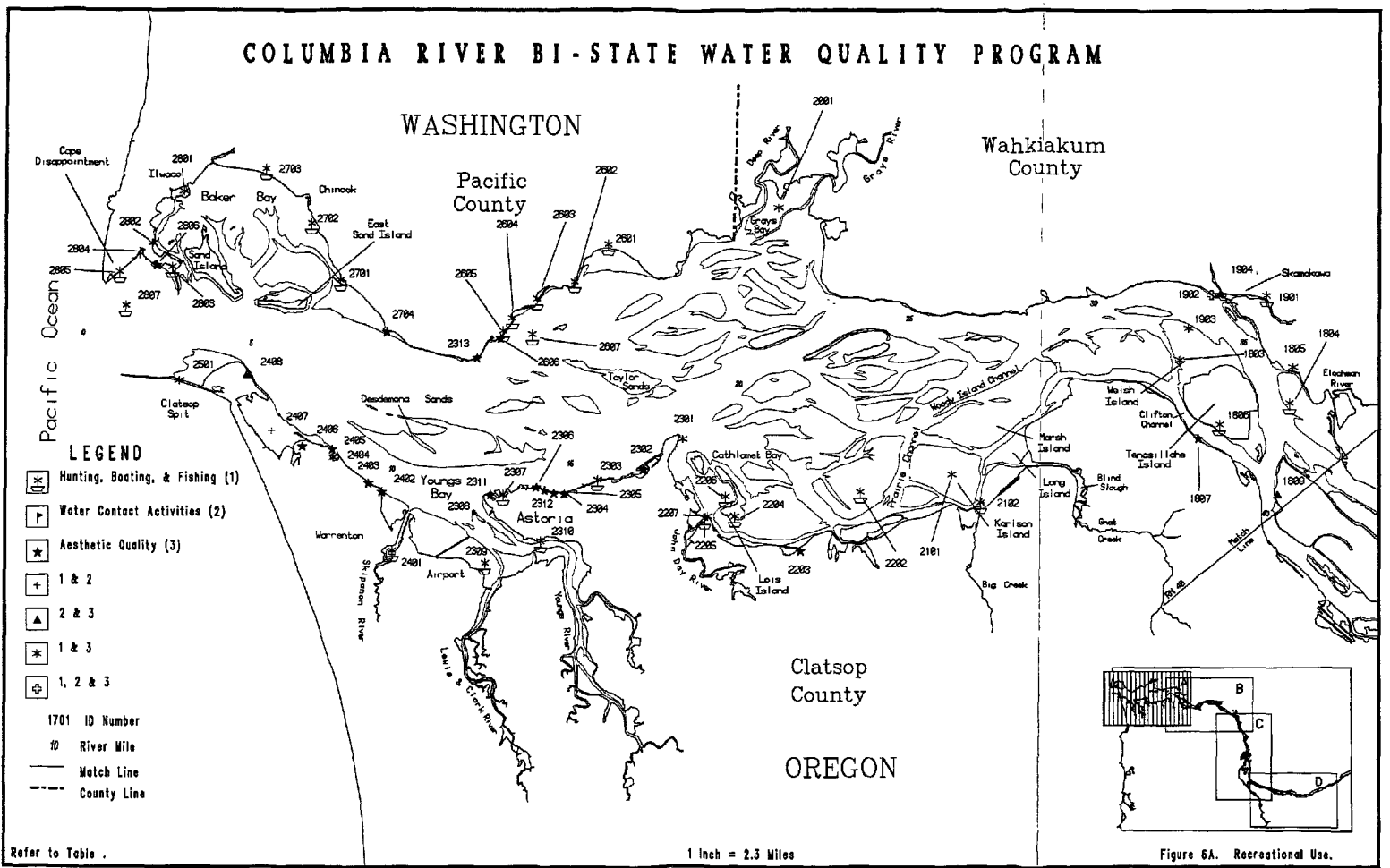


Refer to Table - Wildlife Uses.

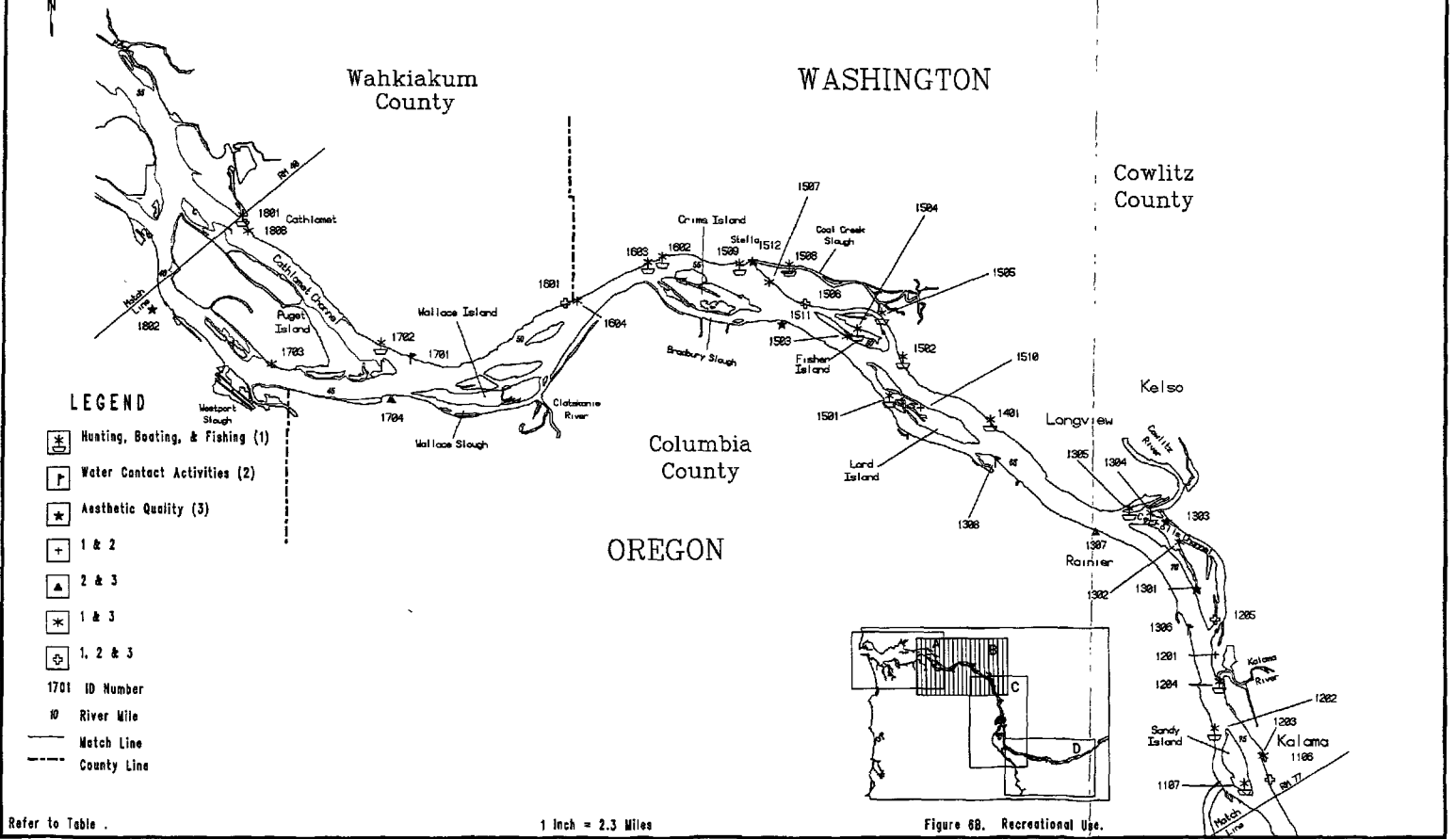
1 inch = 2.3 Miles

Figure 50. Plant and Wildlife Use.

# COLUMBIA RIVER BI-STATE WATER QUALITY PROGRAM



# COLUMBIA RIVER BI-STATE WATER QUALITY PROGRAM



# COLUMBIA RIVER BI-STATE WATER QUALITY PROGRAM

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



Columbia  
County

Cowlitz  
County

Clark  
County

Multnomah  
County

### LEGEND

-  Hunting, Boating, & Fishing (1)
-  Water Contact Activities (2)
-  Aesthetic Quality (3)
-  1 & 2
-  2 & 3
-  1 & 3
-  1, 2 & 3

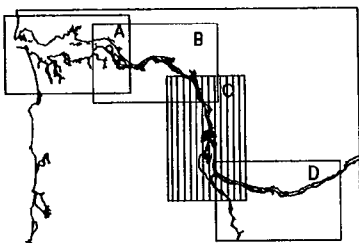
1701 ID Number

so River Mile

— Match Line

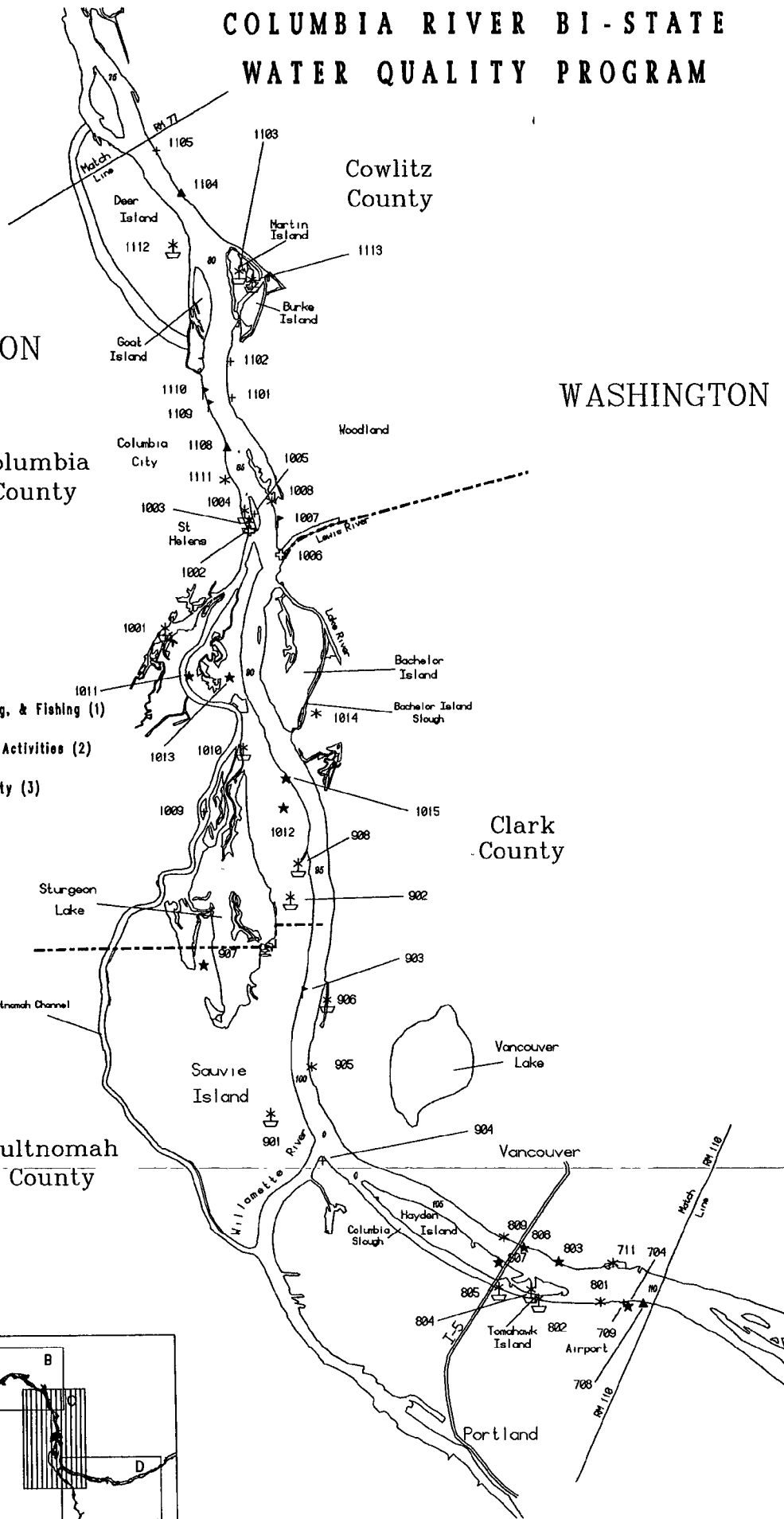
- - - County Line

Figure 8C. Recreational Use.



Refer to Table.

1 Inch = 2.3 Miles





# COLUMBIA RIVER BI-STATE WATER QUALITY PROGRAM

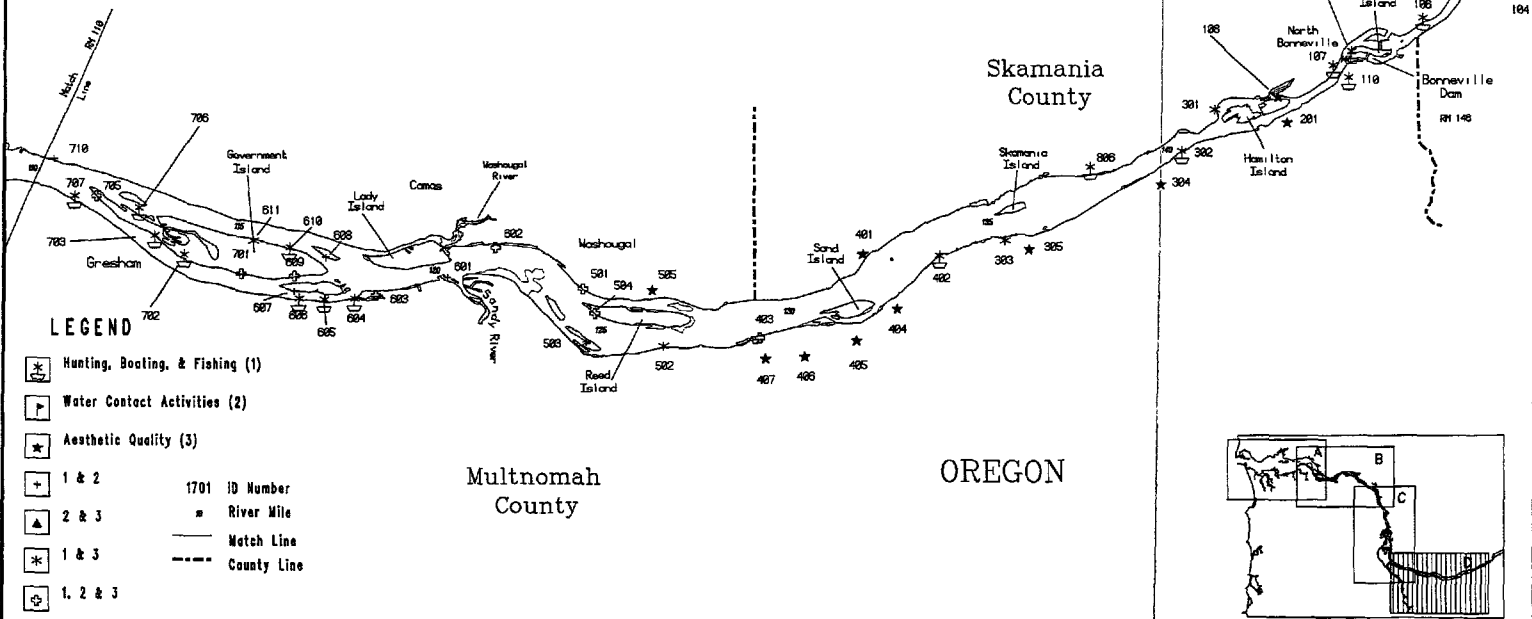
WASHINGTON

Clark County

Skamania County

Multnomah County

OREGON



**LEGEND**

- [\*] Hunting, Boating, & Fishing (1)
  - [P] Water Contact Activities (2)
  - [★] Aesthetic Quality (3)
  - [+]
  - [▲]
  - [\*]
  - [⊕]
- 1 & 2      1701 ID Number  
 2 & 3      " River Mile  
 1 & 3      — Match Line  
 1, 2 & 3      - - - - County Line

Refer to Table.

1 inch = 2.3 Miles

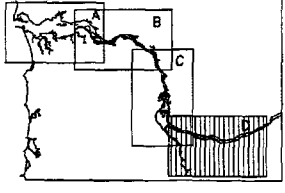


Figure 8D. Recreational Use.