

**EXHIBIT 1**

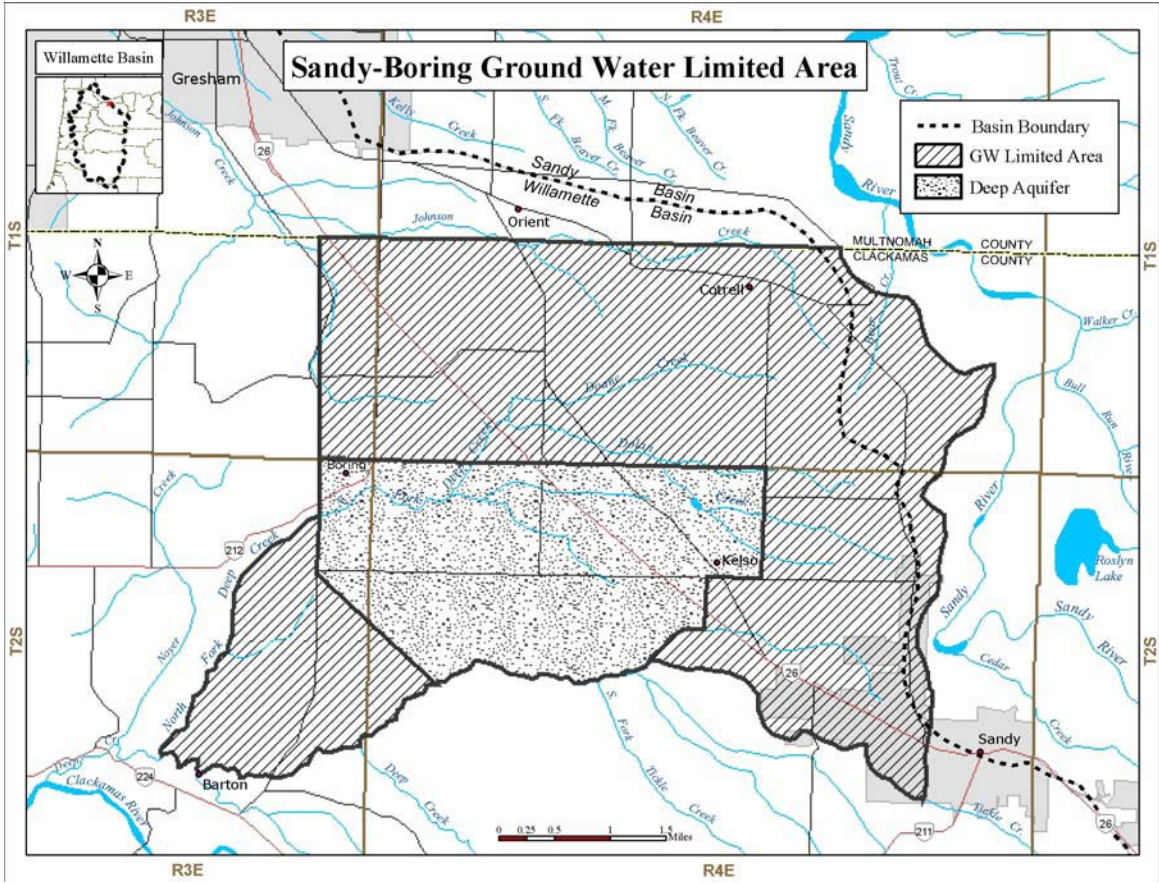
Sandy - Boring Groundwater Limited Area: The aquifer of concern is within the Troutdale Formation.

The boundary of the overall area is as follows:

Beginning at the north quarter corner of Section 25, T1S, R3E, WM, said point being on the Clackamas - Multnomah County line, thence east along the county line to a point at an elevation of 600 feet mean sea level, near the intersection of the county line and Dodge Park Boulevard, thence southerly along the 600 foot elevation contour to Tickle Creek, near the east quarter corner of Section 14, T2S, R4E, WM, thence westerly along Tickle Creek and Deep Creek to the mouth of North Fork Deep Creek, thence northeasterly along North Fork Deep Creek to the north - south center line of Section 1, T2S, R3E, WM, thence north to the point of beginning.

The boundary of the Special Deep Troutdale Aquifer Area is as follows:

Beginning at the north quarter corner of Section 1, T2S, R3E, WM, thence east along the section line to the north quarter corner of Section 3, T2S, R4E, WM, thence south to the south quarter corner of said Section 3, thence west along the section line to the southwest corner of said Section 3, thence south along the section line to a tributary of Tickle Creek near the west quarter corner of Section 10, T2S, R4E, WM, thence westerly along the channels of the tributary and Tickle Creek to the south line of Section 7, T2S, R4E, WM, thence northwesterly to the south quarter corner of Section 1, T2S, R3E, WM, thence north to the point of beginning.

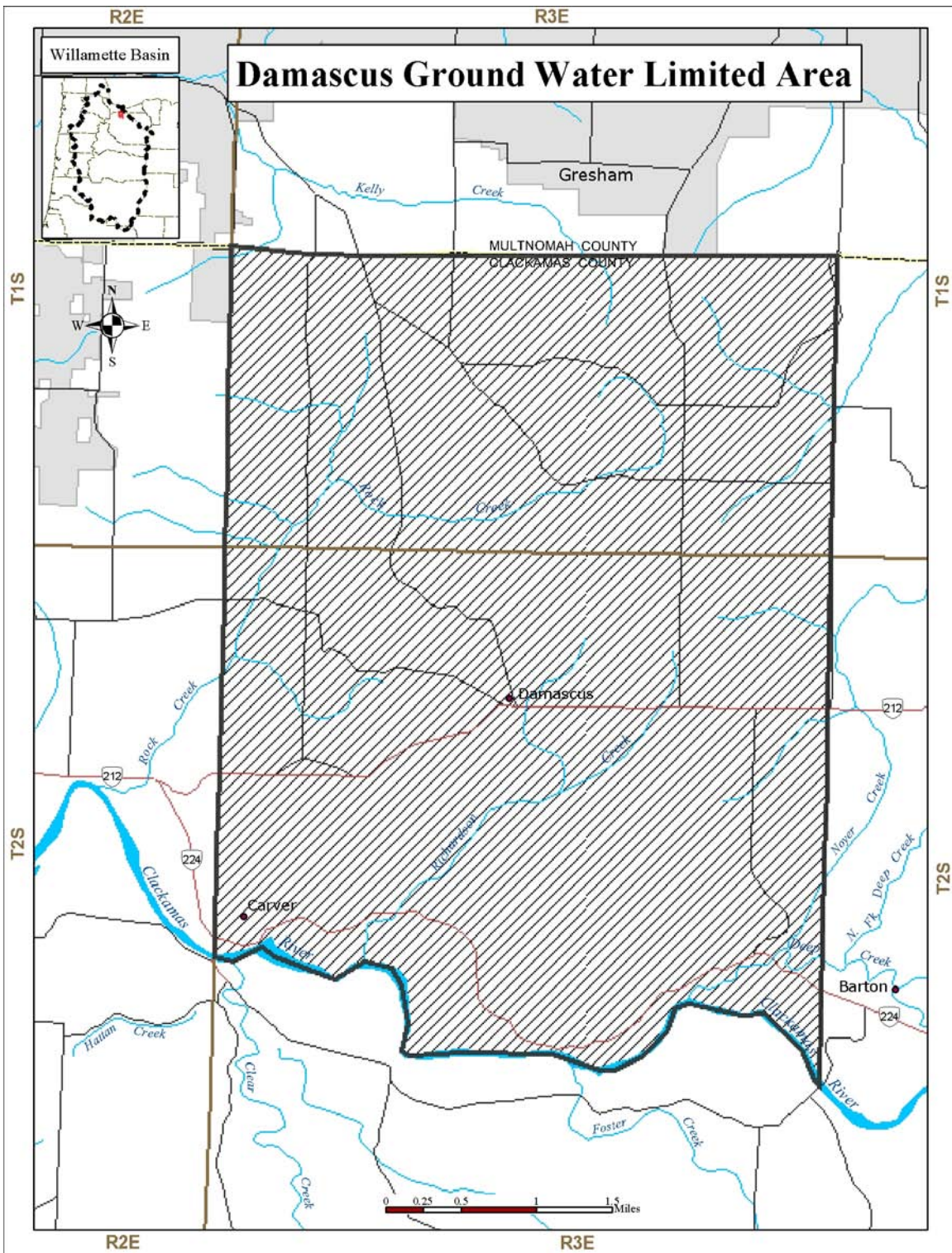


## **EXHIBIT 2**

Damascus Groundwater Limited Area: The aquifers of concern are within the Columbia River Basalt Group and Troutdale Formation.

The boundary of the area is as follows:

Beginning at the intersection of Clackamas River and the west line of Section 18, T2S, R3E, WM, thence northerly along the section line to the northwest corner of Section 30, T1S, R3E, WM, thence easterly along the section line to the northeast corner of Section 27, T1S, R3E, WM, thence southerly along the section line to the intersection of Section 15, T2S, R3E, WM and Clackamas River, thence westerly along the main channel of Clackamas River to the point of beginning.

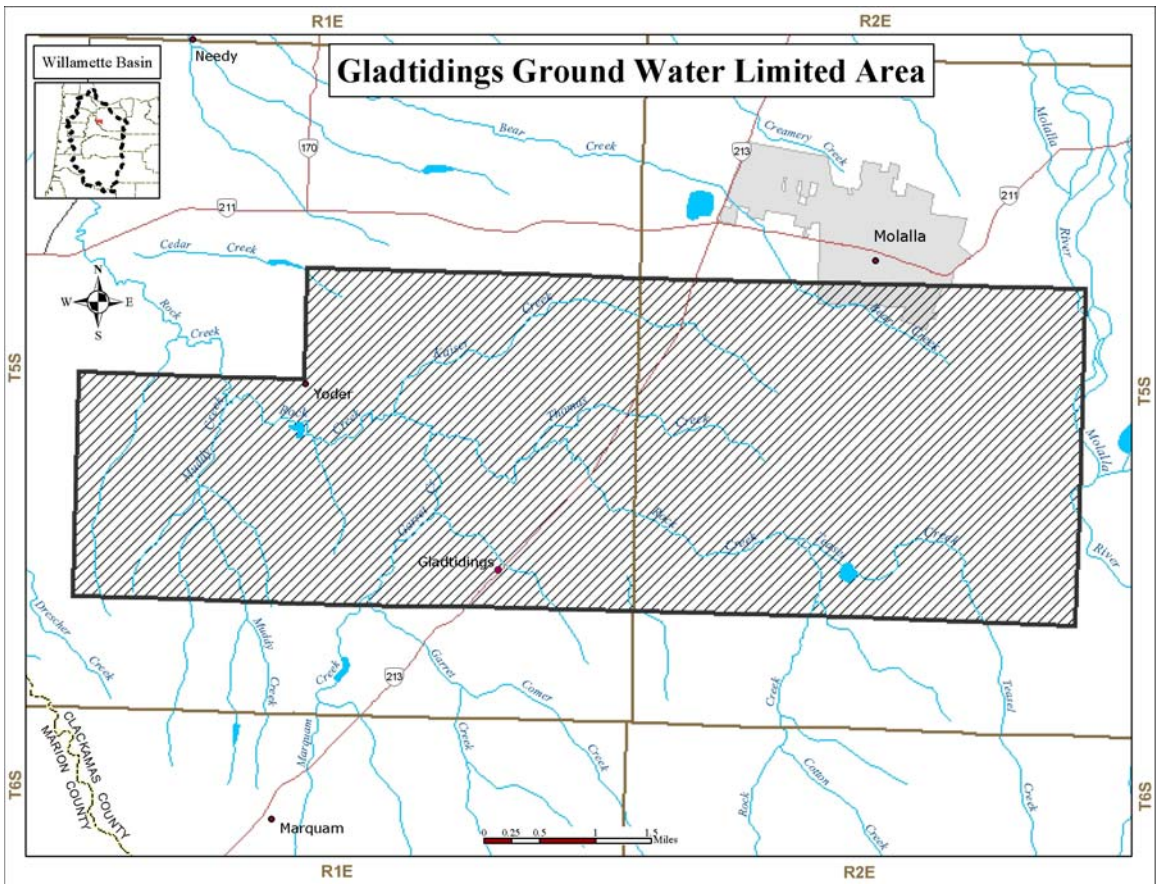


### **EXHIBIT 3**

Gladtidings Groundwater Limited Area: The aquifer of concern is within the Columbia River Basalt Group.

The boundary of the area is as follows:

Beginning at the northwest corner of Section 15, T5S, R1E, WM, thence east along the section line to the northeast corner of Section 15, T5S, R2E, WM, thence south along the section line to the southeast corner of Section 27, T5S, R2E, WM, thence west along the section line to the southwest corner of Section 29, T5S, R1E, WM, thence north along the section line to the northwest corner of Section 20, T5S, R1E, WM, thence east along the section line to the northwest corner of Section 22, T5S, R1E, WM, thence north along the section line to the point of beginning.

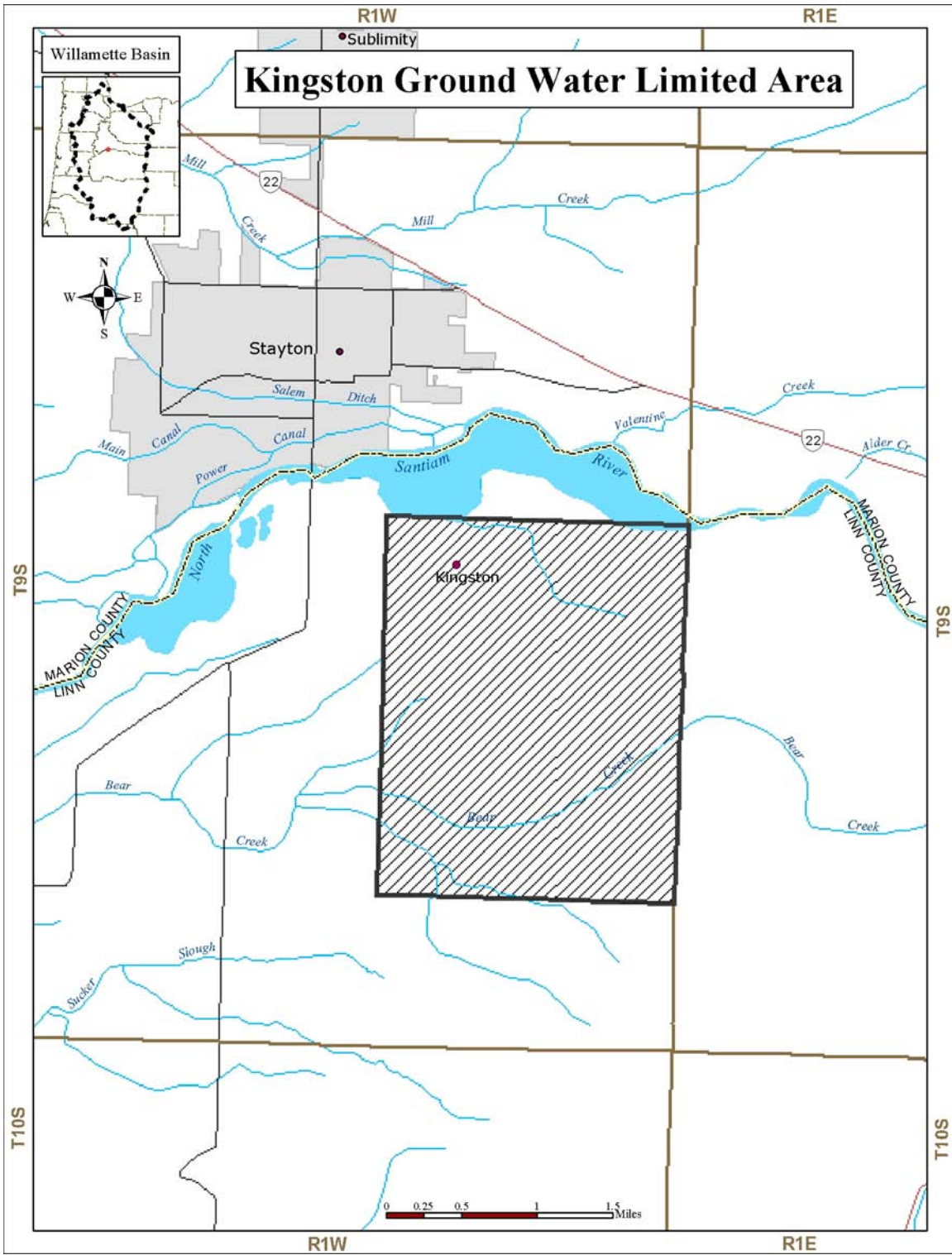


#### **EXHIBIT 4**

Kingston Groundwater Limited Area: The aquifer of concern is within the Columbia River Basalt Group.

The boundary of the area is as follows:

Beginning at the northwest corner of the southwest quarter of Section 14, T9S, R1W, WM, thence easterly along the center line of Section 14 and 13 to the northeast corner of the southeast quarter of Section 13, T9S, R1W, WM, thence south along the section line to the southeast corner of Section 25, T9S, R1W, WM, thence west along the section line to the southwest corner of Section 26, T9S, R1W, WM, thence north along the section line to the point of beginning.

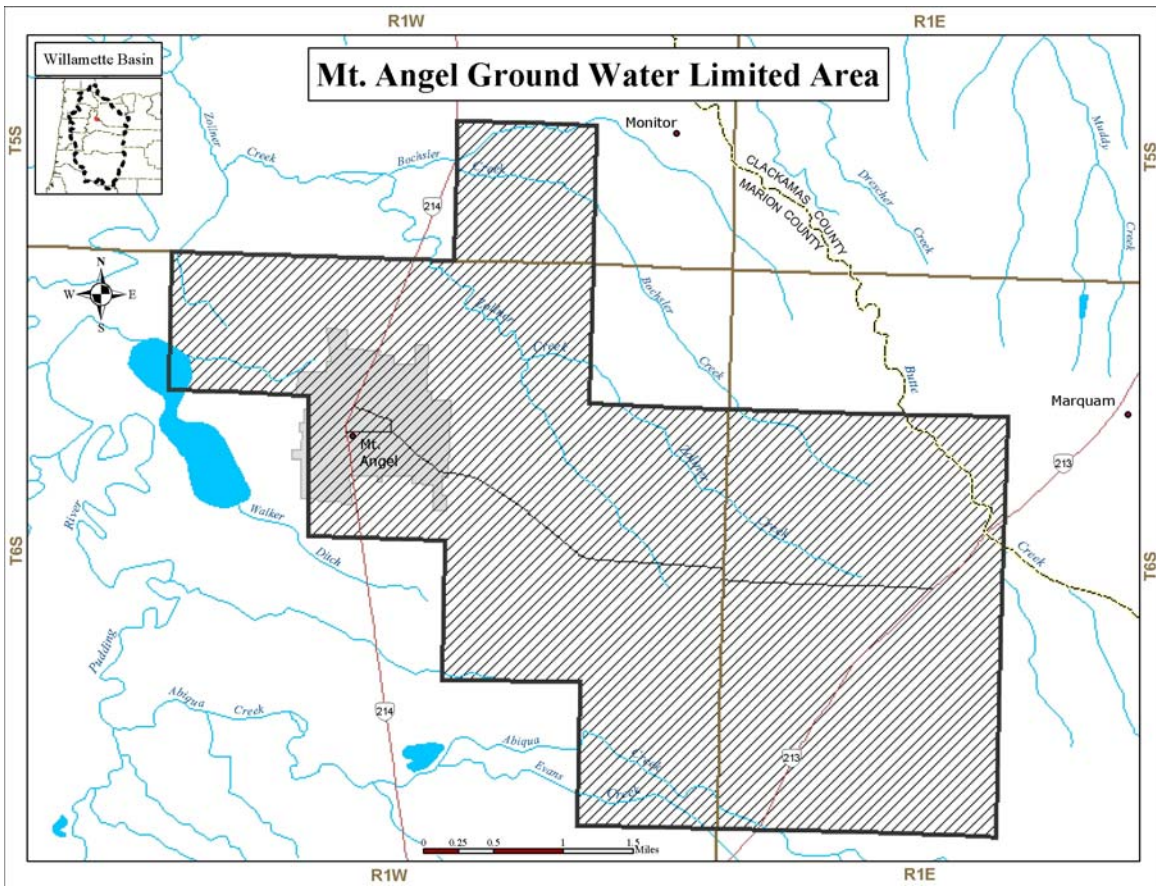




## **EXHIBIT 5**

Mt. Angel Groundwater Limited Area: The aquifer of concern is within the Columbia River Basalt Group.

The Mt. Angel area includes: Section 35 in T5S, R1W, WM, Sections 2, 3, 4, 10, 11, 12, 13, 14 and 24 in T6S, R1W, WM, and Sections 7, 8, 17, 18, 19 and 20 in T6S, R1E, WM.

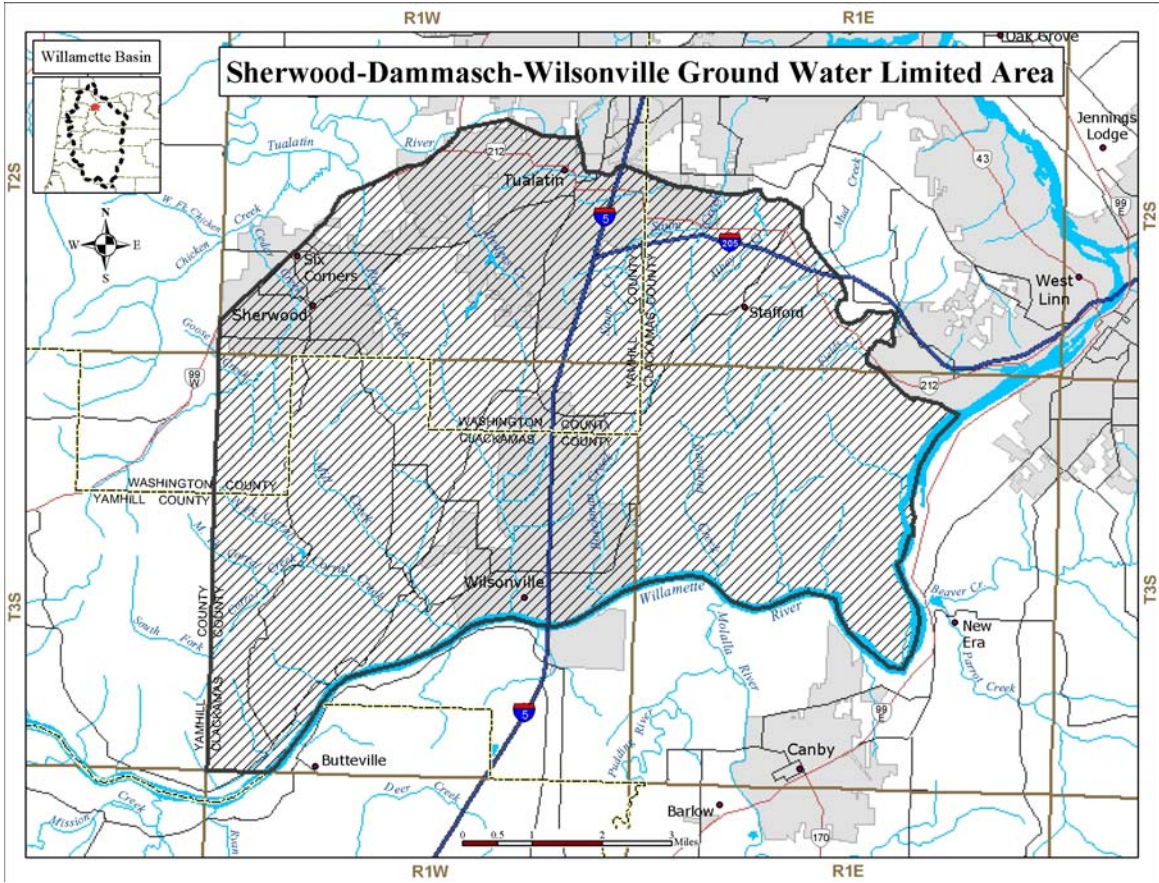


## **EXHIBIT 6**

Sherwood - Dammasch - Wilsonville Groundwater Limited Area: The aquifer of concern is within the Columbia River Basalt Group.

The boundary of the area is as follows:

Beginning at the southwest corner of Section 31, T3S, R1W, WM, thence northerly along the section line to its intersection with U.S. Highway 99, thence northeasterly along said highway to its intersection with the south boundary of the Cooper Mountain - Bull Mountain Critical Groundwater area, thence easterly along said south boundary to the east line of Section 14, T2S, R1W, WM, thence downstream along the main channel of the Tualatin River to its intersection with the Willamette River, thence upstream along the main channel of the Willamette River to the south line of aforesaid Section 31, thence westerly along the south line of Section 31 to the point of beginning.

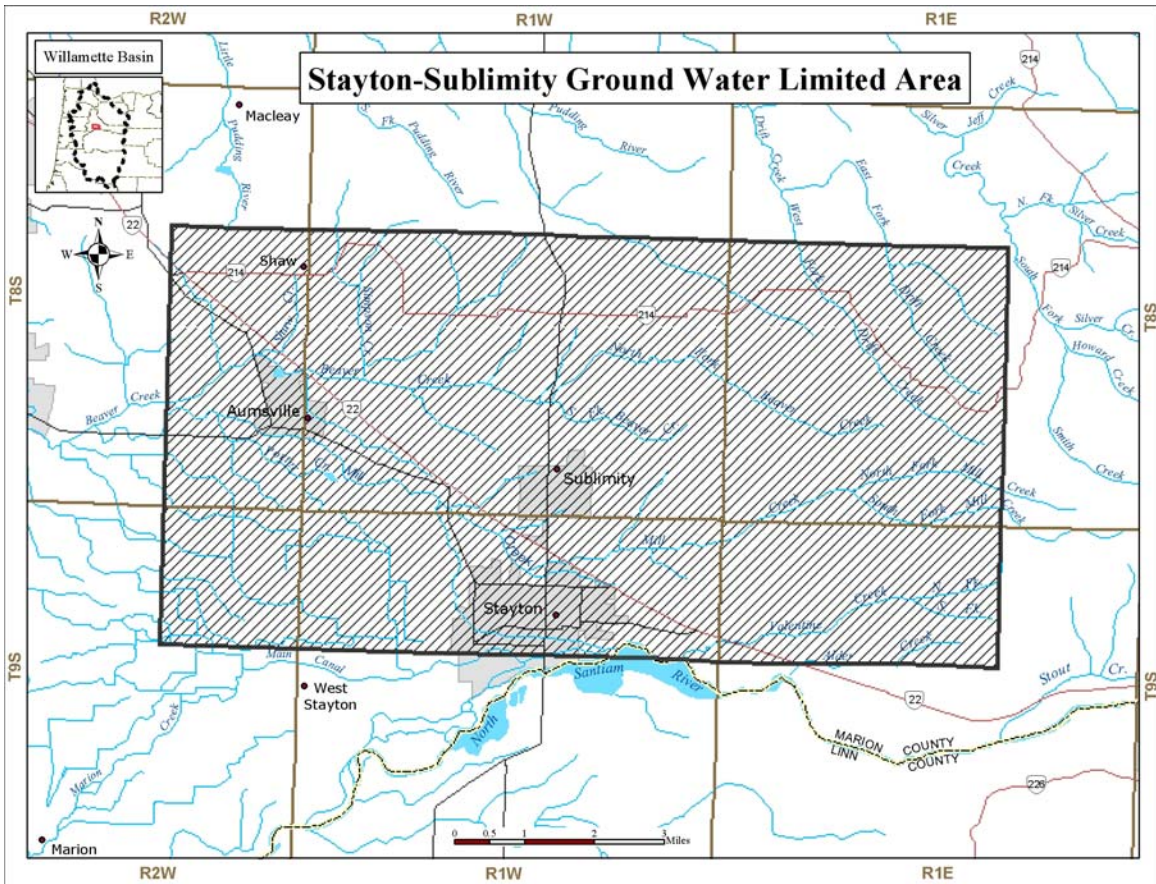


## **EXHIBIT 7**

Stayton - Sublimity Groundwater Limited Area: The aquifer of concern is within the Columbia River Basalt Group.

The boundary of the area is as follows:

Beginning at the northwest corner of Section 14, T8S, R2W, WM, thence east along the section line to the northeast corner of Section 15, T8S, R1E, WM, thence south along the section line to the southeast corner of Section 10, T9S, R1E, WM, thence west along the section line to the southwest line of Section 11, T9S, R2W, WM, thence north along the section line to the point of beginning.

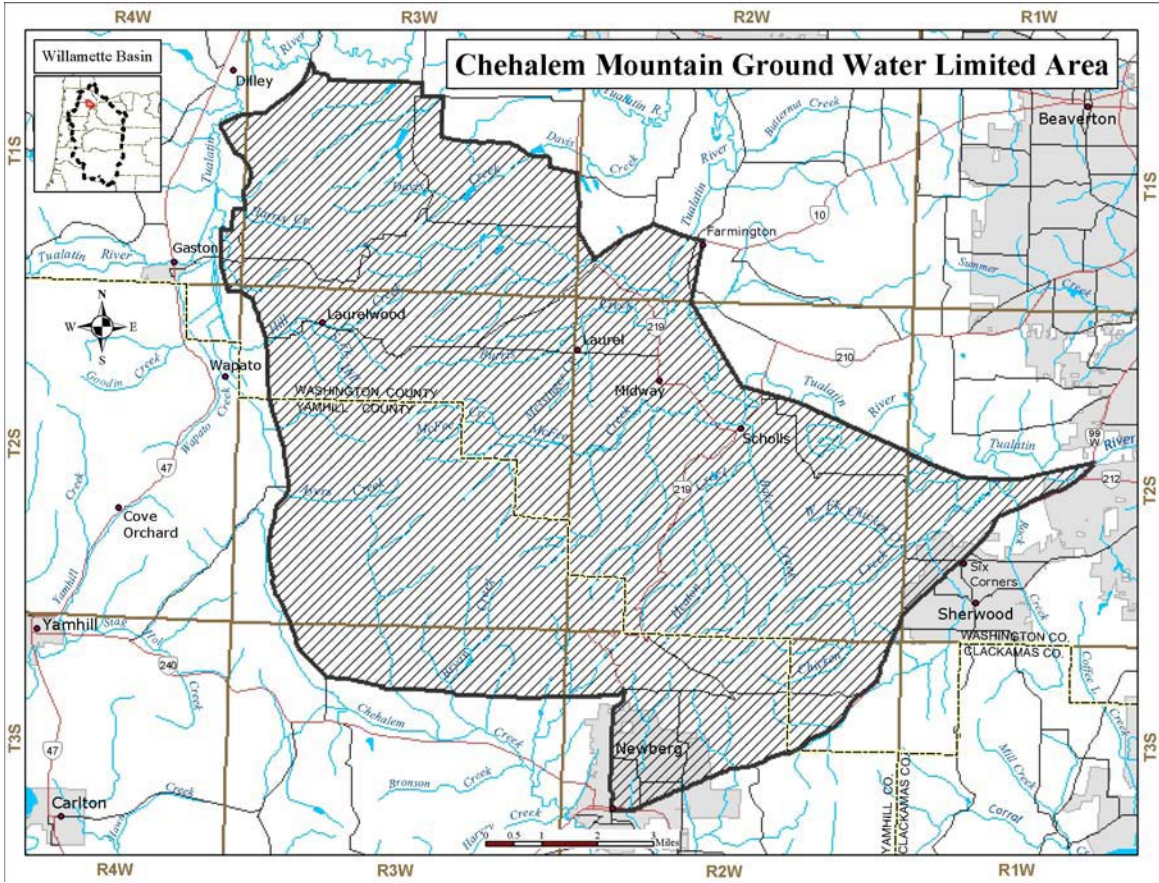


## **EXHIBIT 8**

Chehalem Mountain Groundwater Limited Area: The aquifer of concern is within the Columbia River Basalt Group.

The boundary of the area is as follows:

Beginning at the intersection of U.S. Highway 99W and State Highway 219 in Newberg, thence northerly along Highway 219 to North Valley Road, thence westerly along North Valley Road to Spring Hill Road, thence northerly along Spring Hill Road to Blooming-Fern Hill Road, thence easterly along Blooming-Fern Hill Road to Golf Course Road, thence south along Golf Course Road to Tongue Lane, thence east along Tongue Lane to Johnson School Road, thence southerly and easterly along Johnson School Road to Simpson Road, thence southerly along Simpson Road to State Highway 219, thence southerly along State Highway 219 to the State Highway 208, thence easterly along State Highway 208 to the westerly boundary of the Cooper Mountain - Bull Mountain Critical Groundwater Area, thence southeasterly along the southern boundary of the Critical Groundwater Area to U.S. Highway 99W, thence southwesterly along U.S. Highway 99W to the point of beginning.



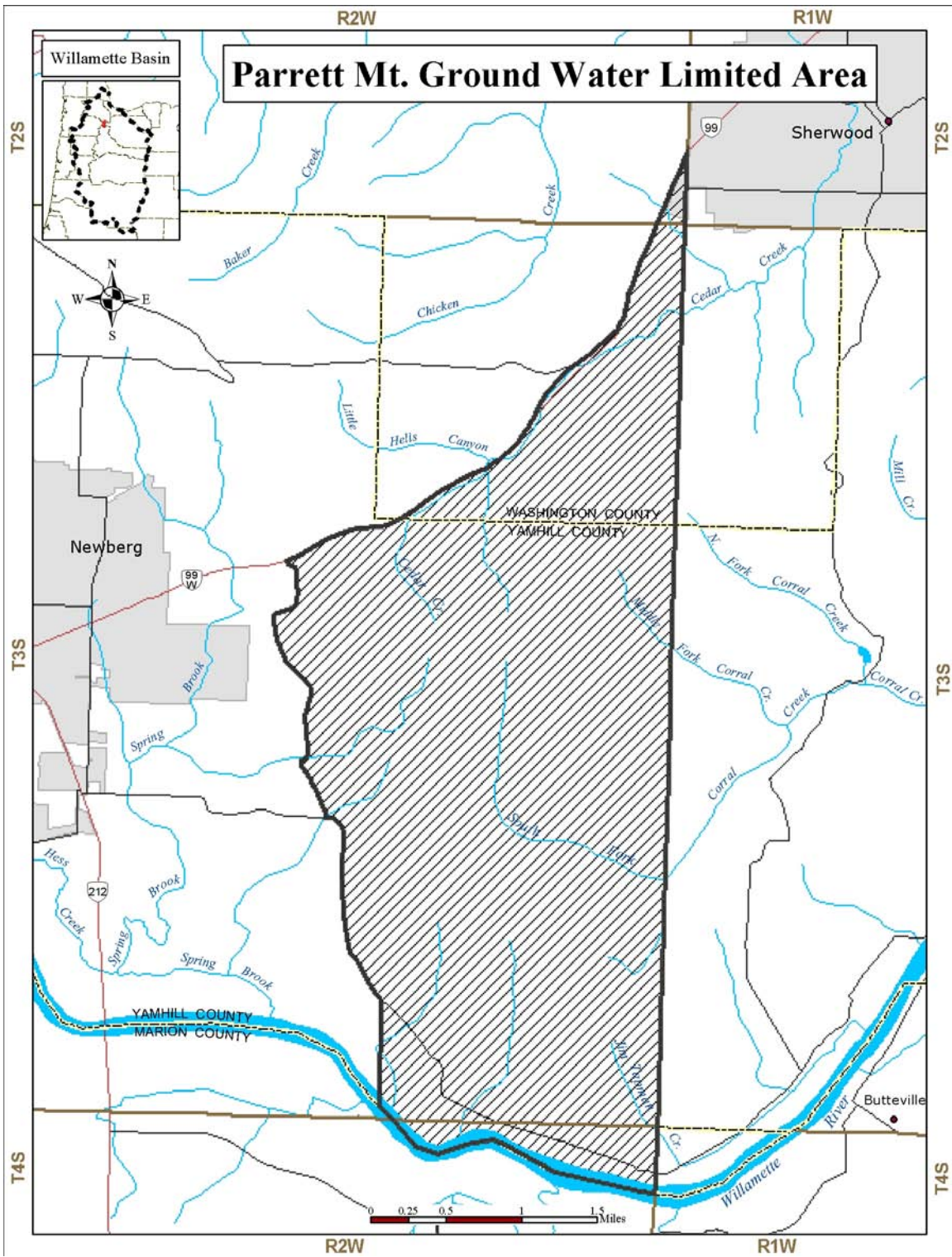


## **EXHIBIT 9**

Parrett Mountain Groundwater Limited Area: The aquifer of concern is within the Columbia River Basalt Group.

The boundary of the area is as follows:

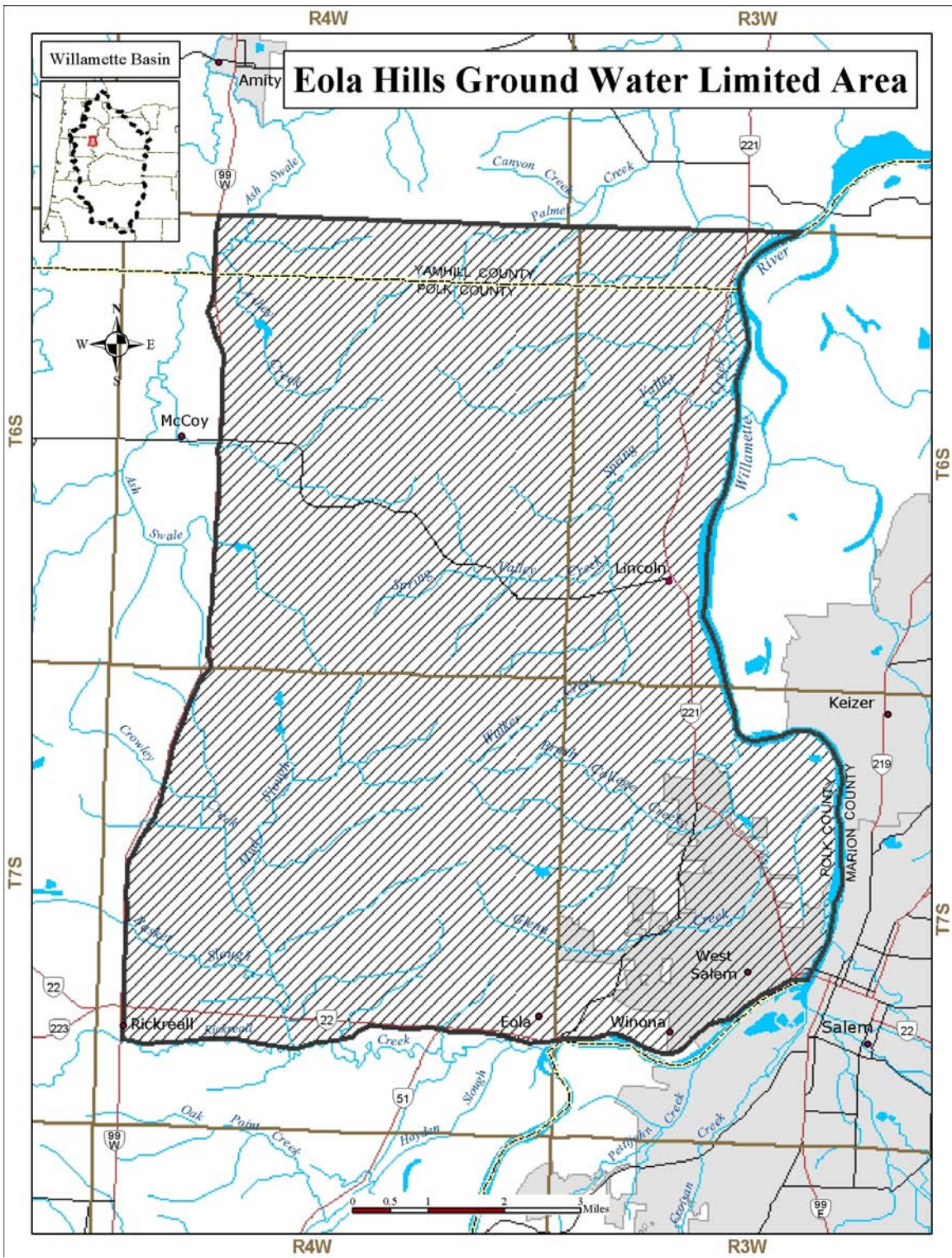
Beginning at the Northwest corner of Section 6, T4S, R1W, WM, thence southerly to the main channel of the Willamette River, thence upstream along the main channel of the Willamette River to a point directly north of the west line of Champoeg State Park, thence north to Wilsonville Road, thence northerly along Wilsonville Road to Ladd Road, thence northerly along Ladd Road to U.S. Highway 99W, thence northeasterly along U.S. Highway 99W to the west line of Section 31, T2S, R1W, WM, thence southerly along the section line to the point of beginning.



## **EXHIBIT 10**

Eola Hills Groundwater Limited Area: The aquifer of concern is within the Columbia River Basalt Group.

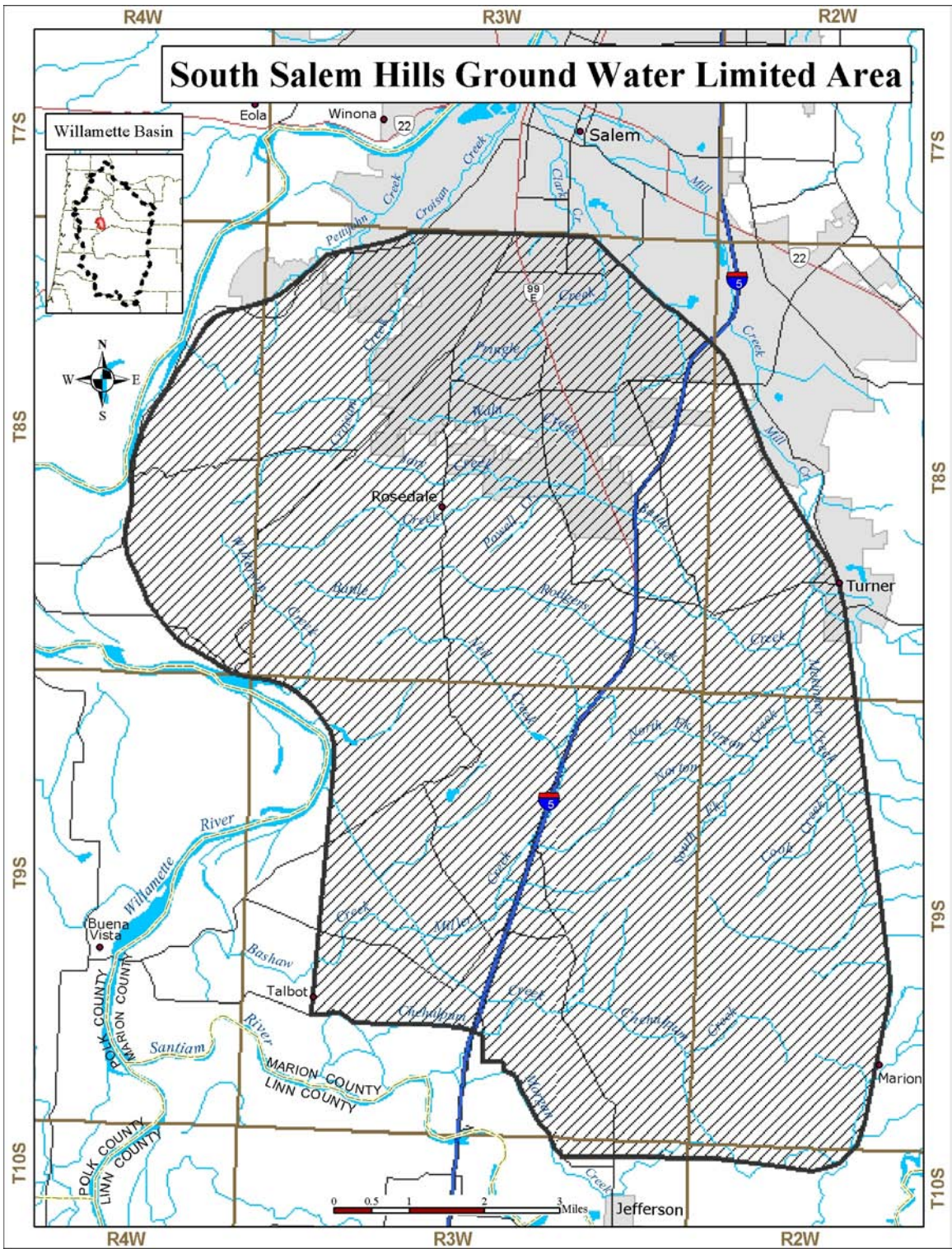
The boundary of the Eola Hills area is as follows: Beginning at the intersection of the south line of Township 5 South and U.S. Highway 99W, thence east along the township line to the Willamette River, thence southerly to Oregon State Highway 22, thence westerly to U.S. Highway 99W, thence northerly along Hwy 99W to the point of beginning.



## **EXHIBIT 11**

South Salem Hills Groundwater Limited Area: The aquifer of concern is within the Columbia River Basalt Group.

The boundary of the South Salem Hills area is as follows: Beginning at the intersection of the north line of Township 8 South and the Oregon Electric right-of-way, thence east along the township line to the Southern Pacific right-of-way, thence southerly along the right-of-way to Talbot Road, thence westerly along Talbot Road to the Oregon Electric right-of-way, thence northerly along the right-of-way to the point of beginning.

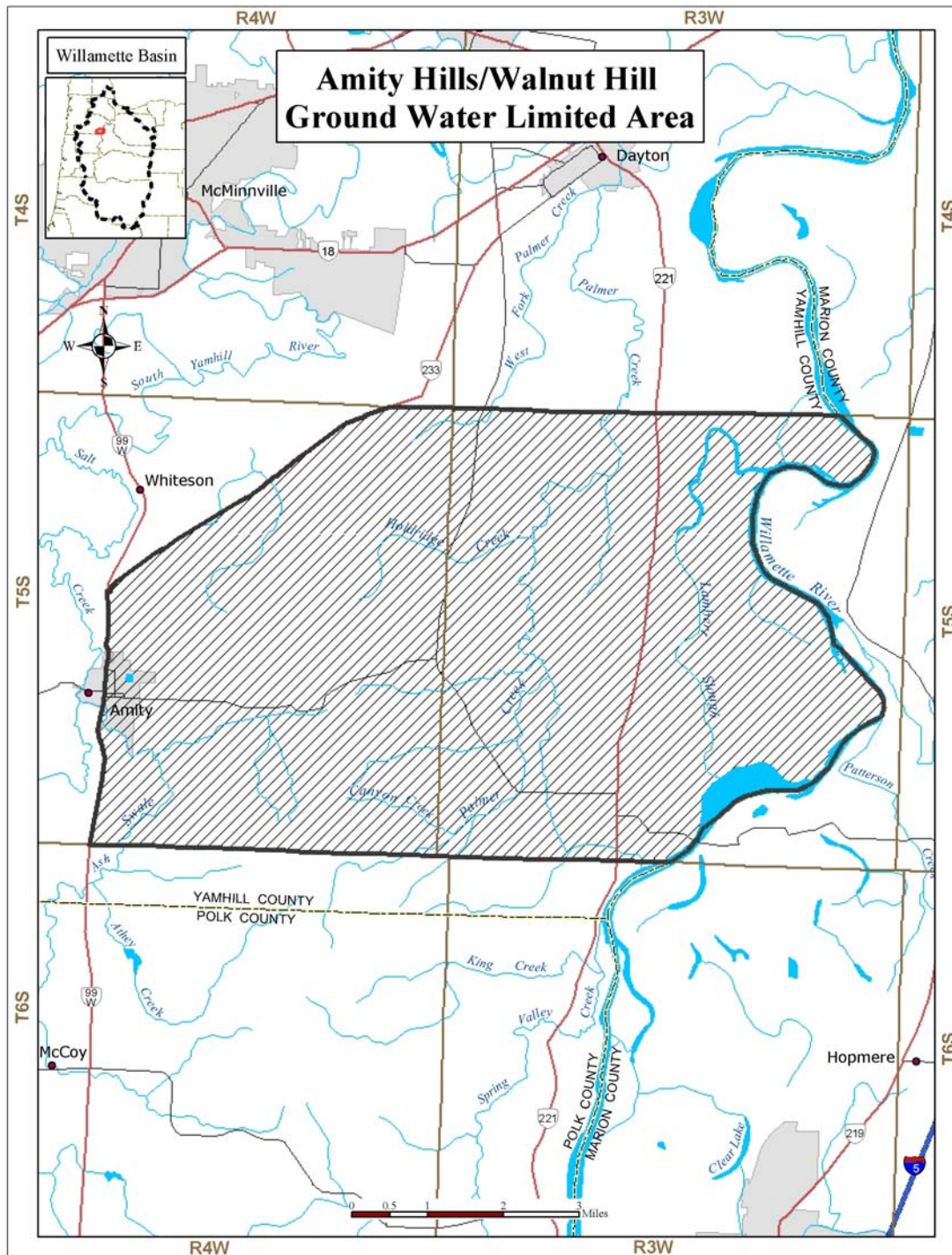


## **EXHIBIT 12**

Amity Hills/Walnut Hill Ground Water Limited Area: The aquifers of concern are within the Columbia River Basalt Group.

The boundary of the Amity Hills/Walnut Hill Area is as follows:

Beginning at the intersection of the south line of Township 5 South and U. S. Highway 99W, thence east along the township line to the Willamette River, thence northerly following the Willamette River to the north line of Township 5 South, thence west along the township line to the intersection with Oregon Highway 233, thence southwesterly along Highway 233 to the intersection with Highway 99W, thence southerly along Highway 99W to the point of beginning.







**Table 1**  
**Willamette Basin**  
**Minimum Perennial Streamflows**  
**(cfs)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July*	Aug	Sept	Priority Date
<b>WILLAMETTE RIVER SUBBASIN</b>													
Willamette River above gage 14174000 at Albany (natural flow)	1750	1750	1750	1750	1750	1750	1750	1750	1750	1750	1750	1750	6-22-64
(storage releases: up to)	3140	3140	3140	3140	3140	3140	3140	3140	3140	3140	3140	3140	
Willamette River above gage 14191000 at Salem (natural flow)	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	6-22-64
(storage releases: up to)	4700	4700	4700	4700	4700	4700	4700	4700	4700	4700	4700	4700	
Willamette River above gage 14198000 at Wilsonville (natural flow)	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	6-22-64
(storage releases: up to)	4700	4700	4700	4700	4700	4700	4700	4700	4700	4700	4700	4700	
Willamette River above Willamette Falls at Oregon City and maintained to the mouth (natural flow)	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	4-20-71
(storage releases: up to)	4700	4700	4700	4700	4700	4700	4700	4700	4700	4700	4700	4700	
<b>MIDDLE FK WILLAMETTE RIVER SUBBASIN</b>													
Middle Fork Willamette River above the North Fork of the Willamette (natural flow)	285	285	285	285	285	285	285	285	285	285	285	285	6-22-64
(additional from storage releases only)	690	690	690	690	690	690	690	690	690	690	690	690	
Fall Creek at the mouth (natural flow)	40	40	40	40	40	40	40	40	40	40	40	40	6-22-64
(additional from storage releases only)	470	470	470	470	470	470	470	470	470	470	470	470	
Middle Fork Willamette River at the mouth (natural flow)	640	640	640	640	640	640	640	640	640	640	640	640	6-22-64
(additional from storage releases only)	1475	1475	1475	1475	1475	1475	1475	1475	1475	1475	1475	1475	

\* Where two flow levels are shown, the first flow level is for the 1<sup>st</sup> through the 15<sup>th</sup> and the second flow level is for the 16<sup>th</sup> through the last day of the month.

\*\* Earlier priority date for all a part of the indicated flows at the gage.

**Table 1 (continued)**  
**Willamette Basin**  
**Minimum Perennial Streamflows**  
**(cfs)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July*	Aug	Sept	Priority Date
<b>COAST FK WILLAMETTE RIVER SUBBASIN</b>													
Coast Fork Willamette River above the Row River (natural flow)	15	15	15	15	15	15	15	15	15	15	15	15	6-22-64
(additional from storage releases only)	100	100	100	100	100	100	100	100	100	100	100	100	
Row River at the mouth (natural flow)	40	40	40	40	40	40	40	40	40	40	40	40	6-22-64
(additional from the storage releases only)	150	150	150	150	150	150	150	150	150	150	150	150	
Coast Fork Willamette River at the mouth (natural flow)	40	40	40	40	40	40	40	40	40	40	40	40	6-22-64
(additional from storage releases only)	250	250	250	250	250	250	250	250	250	250	250	250	
<b>MCKENZIE RIVER SUBBASIN</b>													
South Fork McKenzie River at the mouth (natural flow)	200	200	200	200	200	200	200	200	200	200	200	200	6-22-64
(additional from storage releases only)	230	230	230	230	230	230	230	230	230	230	230	230	
Blue River at the mouth (natural flow)	30	30	30	30	30	30	30	30	30	30	30	30	6-22-64
(additional from storage releases only)	350	350	350	350	350	350	350	350	350	350	350	350	
McKenzie River at gage 14162500 (natural flow)	1400	1400	1400	1400	1400	1400	1400	1400	1400	1400	1400	1400	6-22-64
(additional from storage releases only)	580	580	580	580	580	580	580	580	580	580	580	580	
<b>McKenzie River at the Interstate Highway 5 bridge</b> (natural flow)	1025	1025	1025	1025	1025	1025	1025	1025	1025	1025	1025	1025	6-22-64
(additional from storage releases only)	700	700	700	700	700	700	700	700	700	700	700	700	

\* Where two flow levels are shown, the first flow level is for the 1<sup>st</sup> through the 15<sup>th</sup> and the second flow level is for the 16<sup>th</sup> through the last day of the month.

\*\* Earlier priority date for all a part of the indicated flows at the gage.

**Table 1 (continued)**  
**Willamette Basin**  
**Minimum Perennial Streamflows**  
**(cfs)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July*	Aug	Sept	Priority Date
<b>LONG TOM RIVER SUBBASIN</b>													
Long Tom River at gage 14170000 (from storage releases only)	370	370	370	370	370	370	370	370	370	370	370	370	6-22-64
<b>SANTIAM – CALAPOOIA RIVER SUBBASIN</b>													
Middle Santiam River above gage 14186500 near Foster (natural flow)	110	110	110	110	110	110	110	110	110	110	110	110	6-22-64
(storage releases: up to)	260	260	260	260	260	260	260	260	260	260	260	260	
South Santiam River above gage 14187500 at Waterloo (natural flow)	170	170	170	170	170	170	170	170	170	170	170	170	6-22-64
(storage releases: up to)	930	930	930	930	930	930	930	930	930	930	930	930	
North Santiam River above gage 14181500 at Niagra (natural flow)	500	500	500	500	500	500	500	500	500	500	500	500	6-22-64
(storage releases: up to)	640	640	640	640	640	640	640	640	640	640	640	640	
North Santiam River above gage 14183000 at Mehama (natural flow)	580	580	580	580	580	580	580	580	580	580	580	580	6-22-64
(storage releases: up to)	640	640	640	640	640	640	640	640	640	640	640	640	
North Santiam River above gage 14184100 near Jefferson (natural flow)	430	430	430	430	430	430	430	430	430	430	430	430	6-22-64
(storage release: up to)	640	640	640	640	640	640	640	640	640	640	640	640	
Santiam River above gage 14189000 near Jefferson (natural flow)	330	330	330	330	330	330	330	330	330	330	330	330	6-22-64
(storage releases: up to)	1570	1570	1570	1570	1570	1570	1570	1570	1570	1570	1570	1570	

\* Where two flow levels are shown, the first flow level is for the 1<sup>st</sup> through the 15<sup>th</sup> and the second flow level is for the 16<sup>th</sup> through the last day of the month.

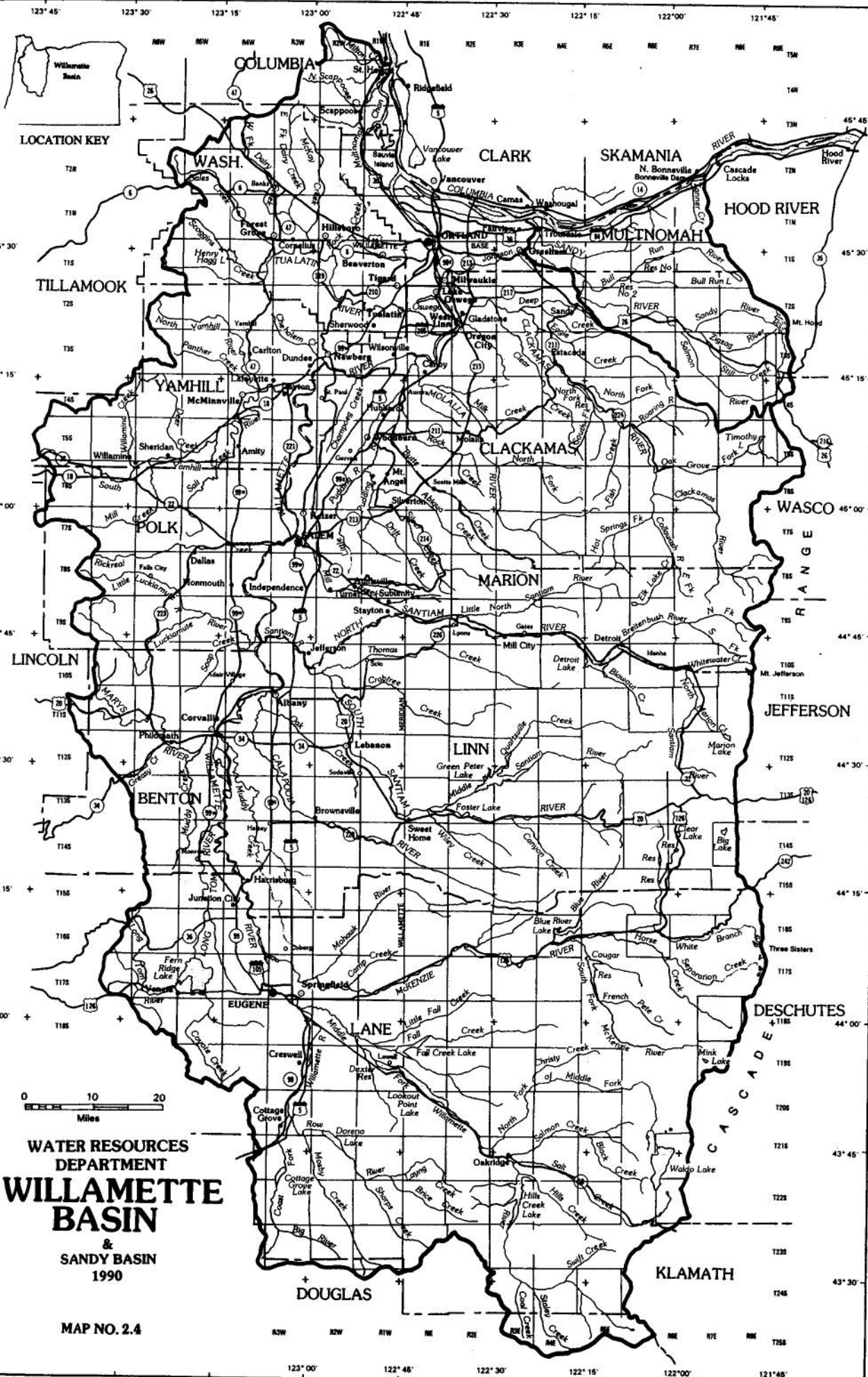
\*\* Earlier priority date for all a part of the indicated flows at the gage.

**Table 1 (continued)**  
**Willamette Basin**  
**Minimum Perennial Streamflows**  
**(cfs)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July*	Aug	Sept	Priority Date
Santiam River at the mouth (natural flow)	320	320	320	320	320	320	320	320	320	320	320	320	6-22-64
(storage releases: up to)	1570	1570	1570	1570	1570	1570	1570	1570	1570	1570	1570	1570	
Calapooia River above gage 14172000 at Holley (natural flow)	30	30	30	30	30	30	30	30	30	30	30	30	6-22-64
(storage releases: up to)	340	340	340	340	340	340	340	340	340	340	340	340	
<b>Calapooia River above gage 14173500 at Albany</b> (natural flow)	20	20	20	20	20	20	20	20	20	20	20	20	6-22-64
(storage releases: up to)	340	340	340	340	340	340	340	340	340	340	340	340	
<b>TUALATIN RIVER SUBBASIN</b>													
Tualatin River above gage 14207500 at West Linn and maintained to the mouth (natural flow)**	90	110	30	30	30	30	30	85	130	40/ 30	30	25	4-15-70
Tualatin River above gage 14207500 at West Linn and maintained to the mouth (natural flow)**	90	250	250	250	250	250	250	250	130	40/ 30	30	25	4-19-75
(storage releases from Scoggins Reservoir: up to)	15								20	75	75	60	
(total storage releases: up to)	250								250	250	250	250	

\* Where two flow levels are shown, the first flow level is for the 1<sup>st</sup> through the 15<sup>th</sup> and the second flow level is for the 16<sup>th</sup> through the last day of the month.

\*\* Earlier priority date for all a part of the indicated flows at the gage.



LOCATION KEY

TILLAMOOK

LINCOLN

BENTON

EUGENE

WATER RESOURCES  
DEPARTMENT  
**WILLAMETTE  
BASIN**  
&  
SANDY BASIN  
1990

MAP NO. 2.4

0 10 20  
Miles

COLUMBIA

CLARK

SKAMANIA

HOOD RIVER

MULTNOMAH

YAMHILL

CLACKAMAS

MARION

LINN

JEFFERSON

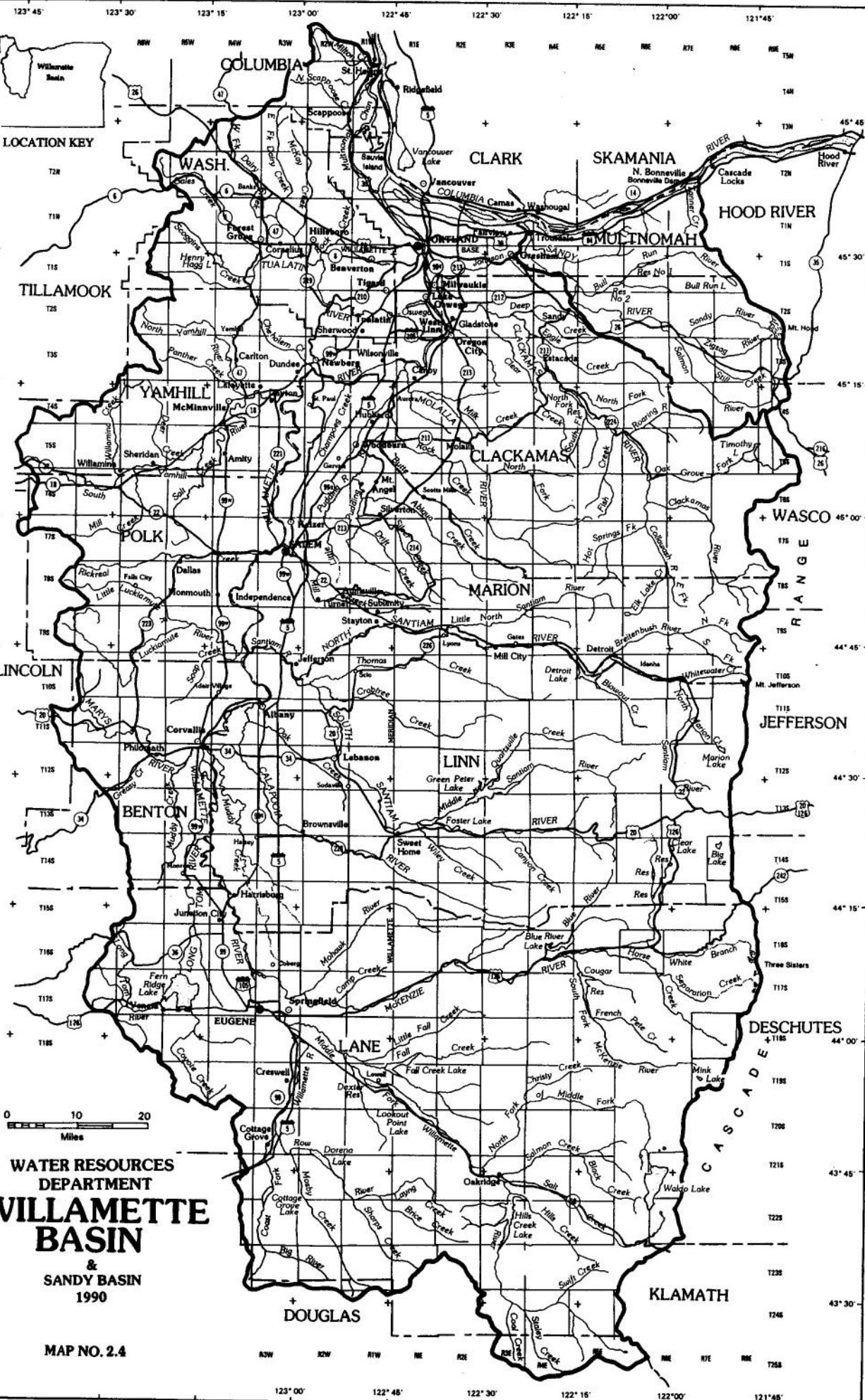
DESCHUTES

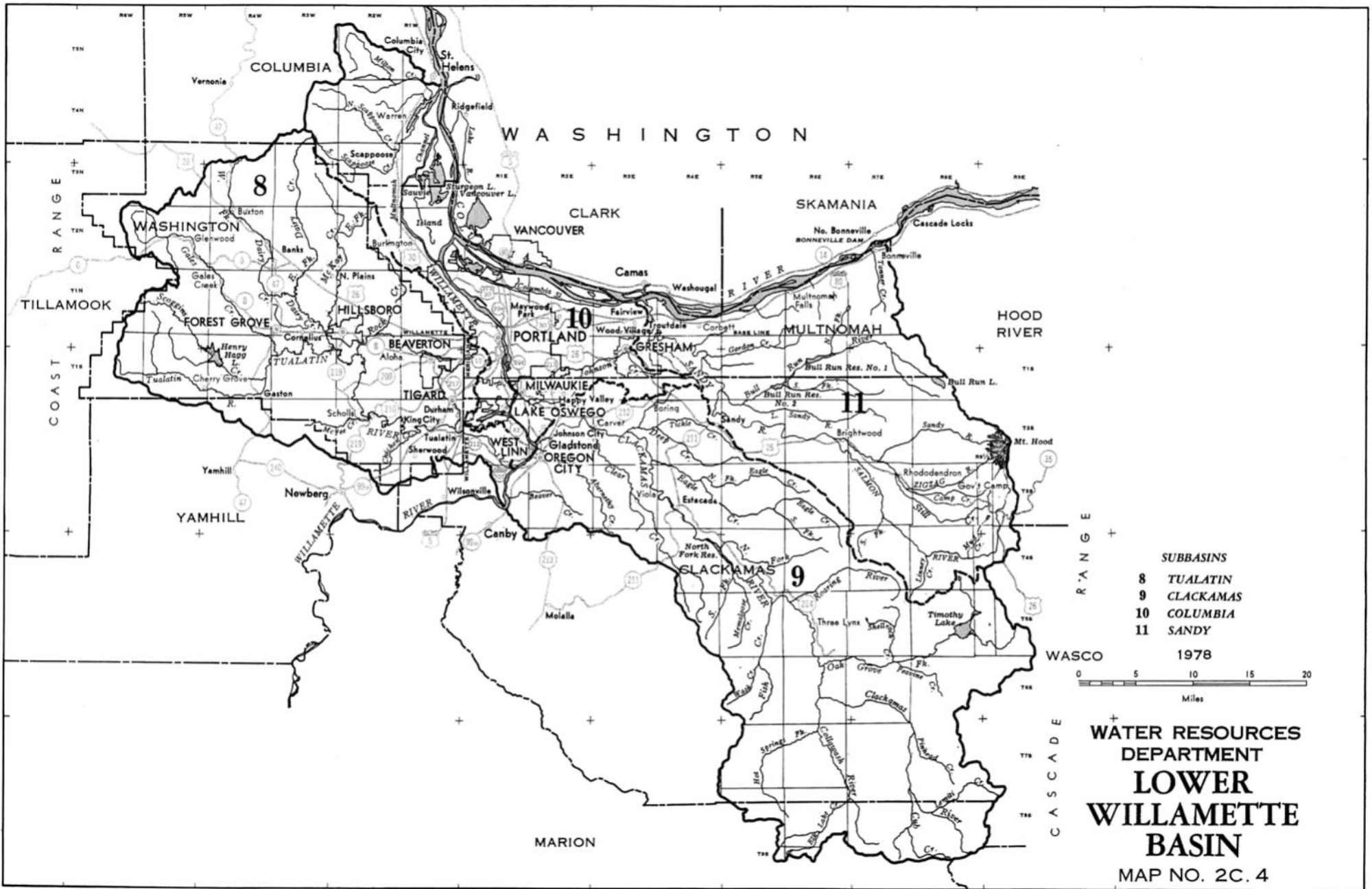
LANE

DOUGLAS

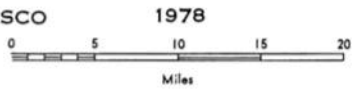
KLAMATH

CASCADE

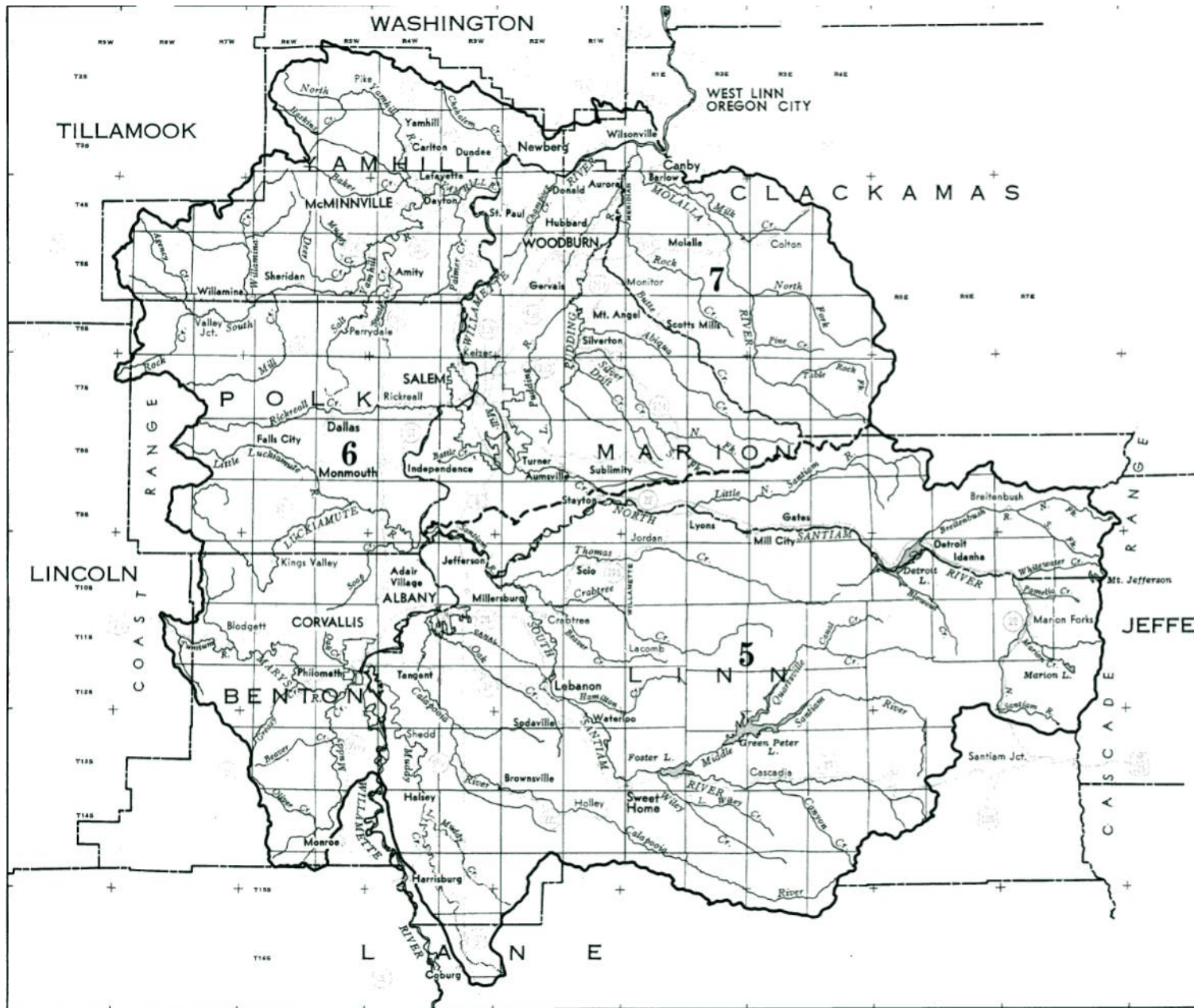




- SUBBASINS**
- 8 TUALATIN
  - 9 CLACKAMAS
  - 10 COLUMBIA
  - 11 SANDY



**WATER RESOURCES  
DEPARTMENT  
LOWER  
WILLAMETTE  
BASIN  
MAP NO. 2C. 4**



**SUBBASINS**

- 5 SANTIAM
- 6 COAST RANGE
- 7 PUDDING

1978



**WATER RESOURCES  
DEPARTMENT**

**MIDDLE  
WILLAMETTE  
BASIN**

MAP NO. 2B.4



