

LEGEND

PORTS	●
COLUMBIA RIVER & SNAKE RIVER	—
REGION BORDER	—
ROAD TONNAGES	
0 - 250,000	—
250,000 - 600,000	—
600,000 - 900,000	—
900,000 - 1,200,000	—
RAIL TONNAGES	
0 - 381,000	—
381,000 - 710,000	—

SNAKE RIVER BARGE TONNAGE AT ICE HARBOR DAM

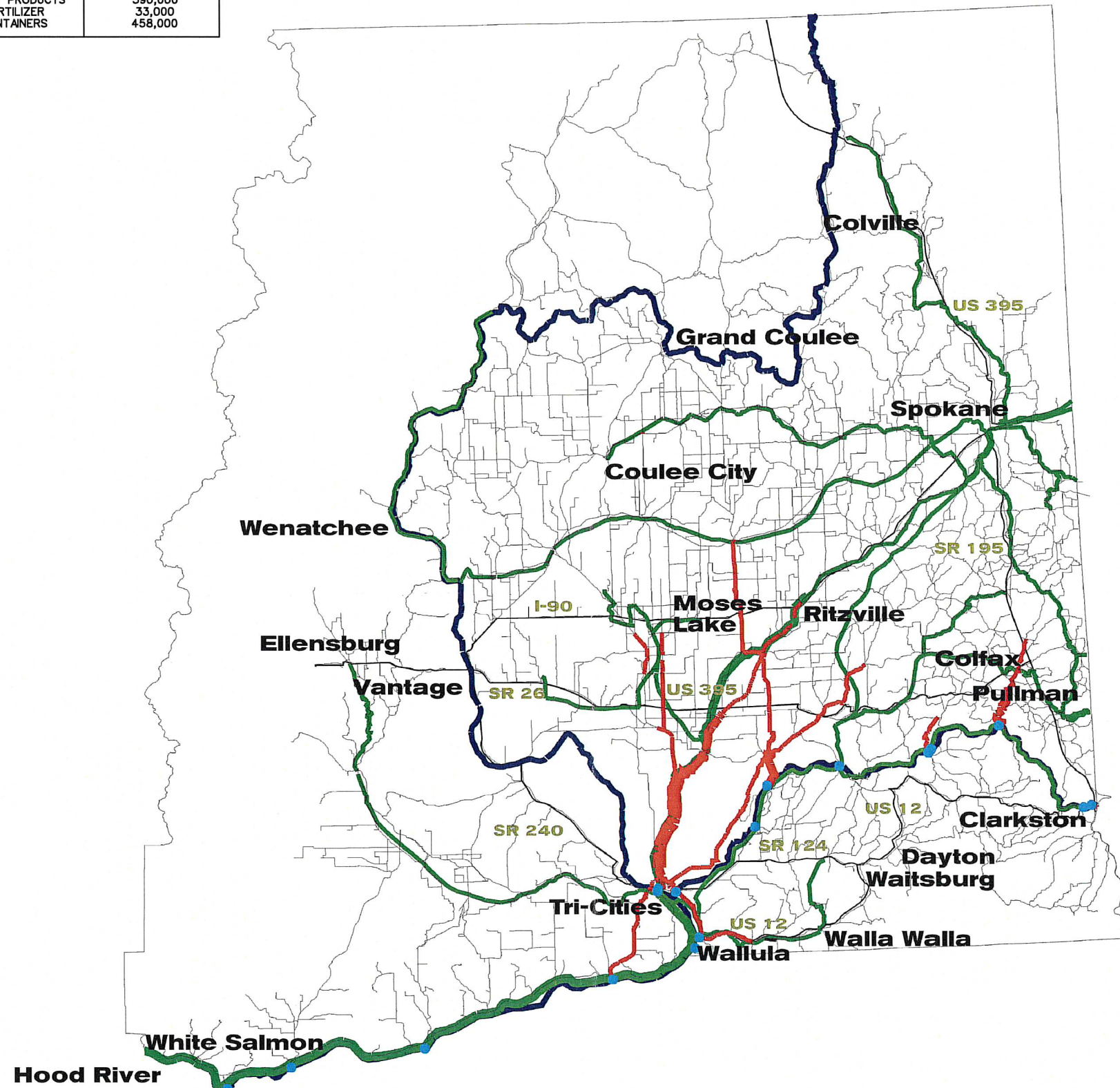
COMMODITY	TONNAGE
WHEAT & BARLEY	3,240,000
PETROLEUM	115,000
WOOD PRODUCTS	590,000
FERTILIZER	33,000
CONTAINERS	458,000



HDR Engineering, Inc.

REVISIONS

NO.	DATE	DESCRIPTION



**Figure 1  
Existing Conditions  
Rail & Highway  
Total Commodity Movement**

Increased tonnages shown in Figures 2 through 11 are in addition to the tonnages indicated in Figure 1.

SNAKE RIVER DRAWDOWN  
STUDY FOR LTC - PHASE II  
EASTERN WASHINGTON  
STATE COUNTIES  
EXISTING CONDITIONS

June 2000

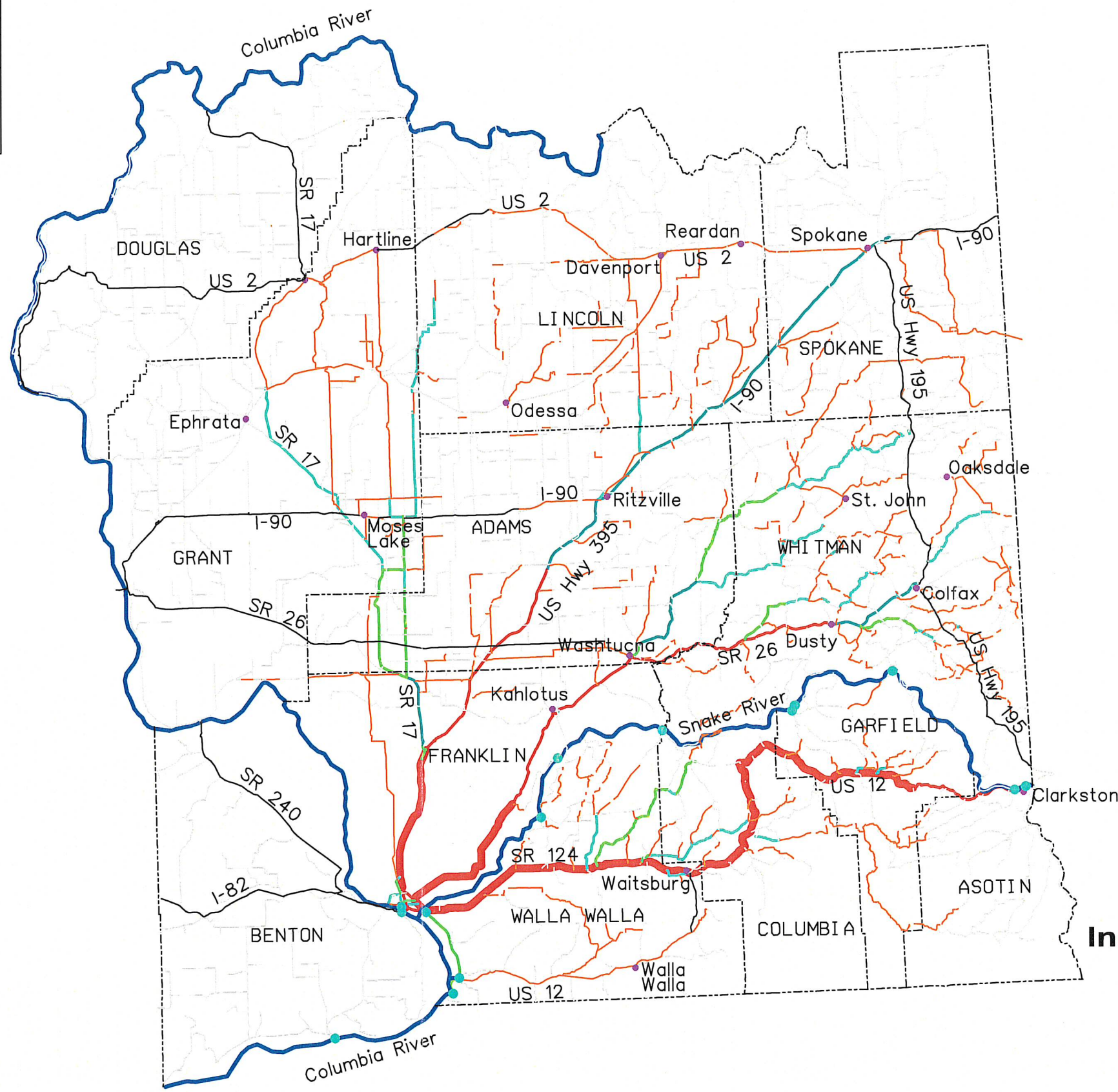
LEGEND

CITY	●		
BARGE LOADING SITE	●		
COLUMBIA RIVER & SNAKE RIVER	—		
COUNTY BORDER	- - - - -		
	CURRENT TRUCK ROUTES		CURRENT NON-TRUCK ROUTES
	ALL-WEATHER	NOT ALL-WEATHER	
INCREASED TONNAGES			
NON-IMPACTED ROADS			
1 - 39,000	—	—	—
39,001 - 98,000	—	—	—
98,001 - 196,000	—	—	—
196,001 - 600,000	—	—	—
600,001 - 1,200,000	—	—	—
1,200,001 - 2,930,000	—	—	—

\* SOME WINTER USE LIMITATIONS OR INADEQUATE ROADWAY BASE



REVISIONS		
NO.	DATE	DESCRIPTION



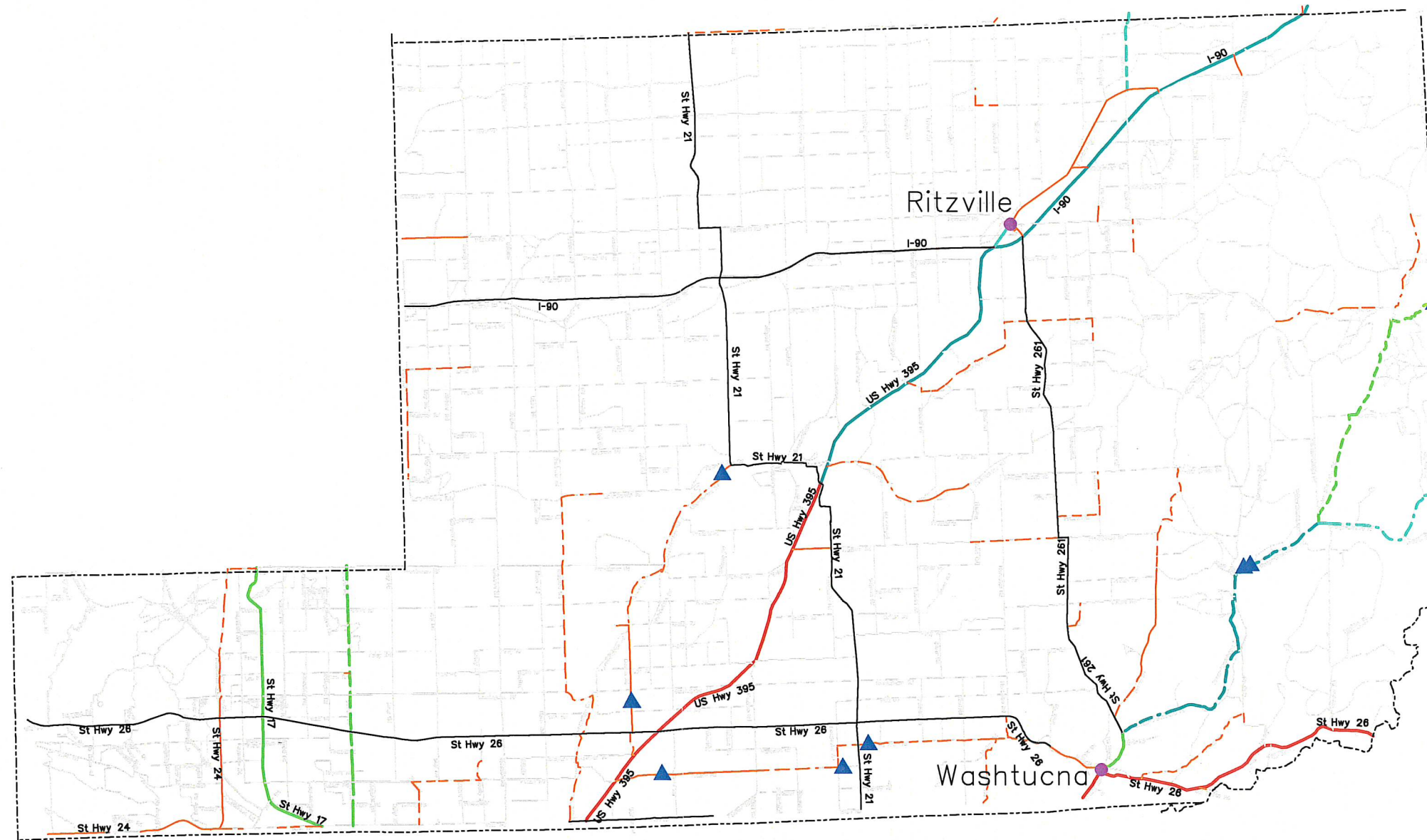
**Figure 2  
Increased Tonnages**

Tonnages indicated are in addition to road tonnages identified in Figure 1

SNAKE RIVER DRAWDOWN  
 STUDY FOR LTC - PHASE II  
 EASTERN WASHINGTON  
 STATE COUNTIES  
 INCREASED TONNAGES  
 June 2000

User: LOUIS C LAU  
 Filename: \trans\08360.014\study\_findings.dgn\_5\_30\_00\regional.dgn  
 Date plotted: 07/27/2000 9:06 am

REVISIONS		
NO.	DATE	DESCRIPTION



**LEGEND**

RESTRICTED BRIDGE	▲		
CITY	●		
BARGE LOADING SITE	●		
COLUMBIA RIVER & SNAKE RIVER	—		
COUNTY BORDER	- - - - -		
INCREASED TONNAGES	CURRENT TRUCK ROUTES		CURRENT NON-TRUCK ROUTES
	ALL-WEATHER	NOT ALL-WEATHER *	
NON-IMPACTED ROADS 1 - 39,000	—	- - - - -	- - - - -
39,001 - 98,000	—	- - - - -	- - - - -
98,001 - 196,000	—	- - - - -	- - - - -
196,001 - 600,000	—	- - - - -	- - - - -
600,001 - 1,200,000	—	- - - - -	- - - - -
1,200,001 - 2,930,000	—	- - - - -	- - - - -

\* SOME WINTER USE LIMITATIONS OR INADEQUATE ROADWAY BASE

**Figure 3  
Increased Tonnages**

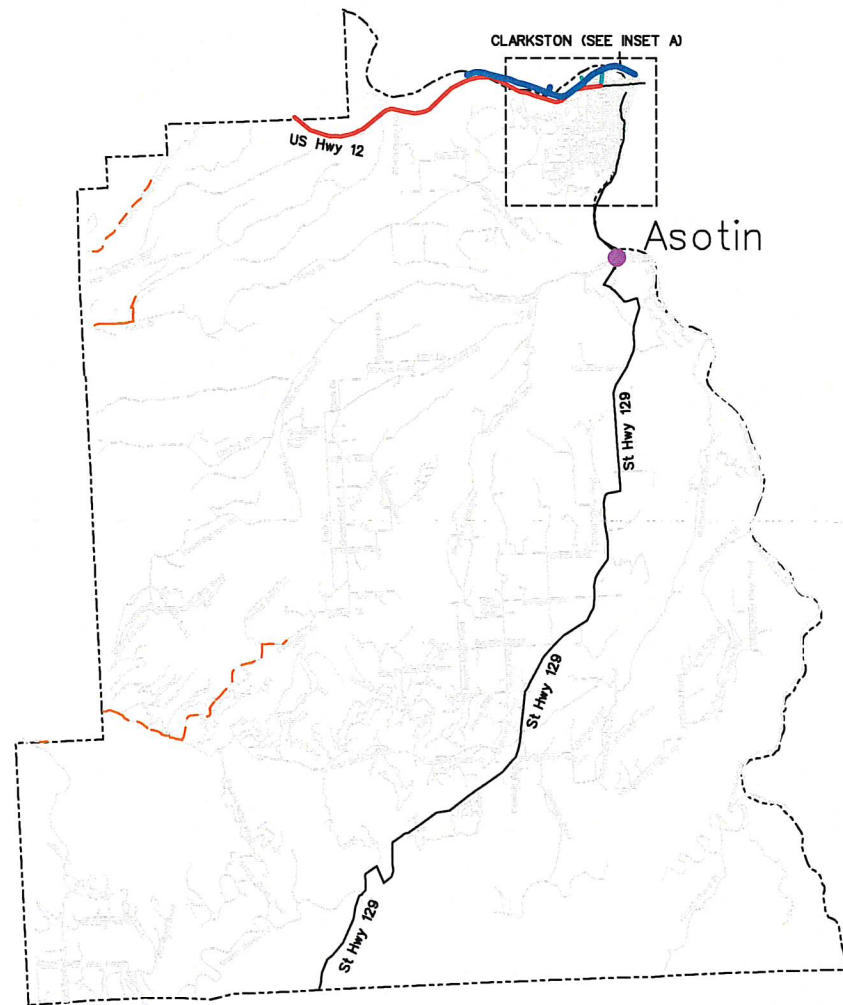
Tonnages indicated are in addition to road tonnages identified in Figure 1.

Snake River Drawdown Study for LTC - Phase II

Adams County Tonnage Impact

June 2000

REVISIONS		
NO.	DATE	DESCRIPTION



INSET A - CLARKSTON AREA

**LEGEND**

CITY	●		
BARGE LOADING SITE	●		
COLUMBIA RIVER & SNAKE RIVER	—		
COUNTY BORDER	- - - - -		
	CURRENT TRUCK ROUTES		CURRENT NON-TRUCK ROUTES
	ALL-WEATHER	NOT ALL-WEATHER	
NON-IMPACTED ROADS 1 - 39,000	—	- - - - -	- - - - -
39,001 - 98,000	—	- - - - -	- - - - -
98,001 - 196,000	—	- - - - -	- - - - -
196,001 - 600,000	—	- - - - -	- - - - -
600,001 - 1,200,000	—	- - - - -	- - - - -
1,200,001 - 2,930,000	—	- - - - -	- - - - -

\* SOME WINTER USE LIMITATIONS OR INADEQUATE ROADWAY BASE

**Figure 4  
Increased Tonnages**

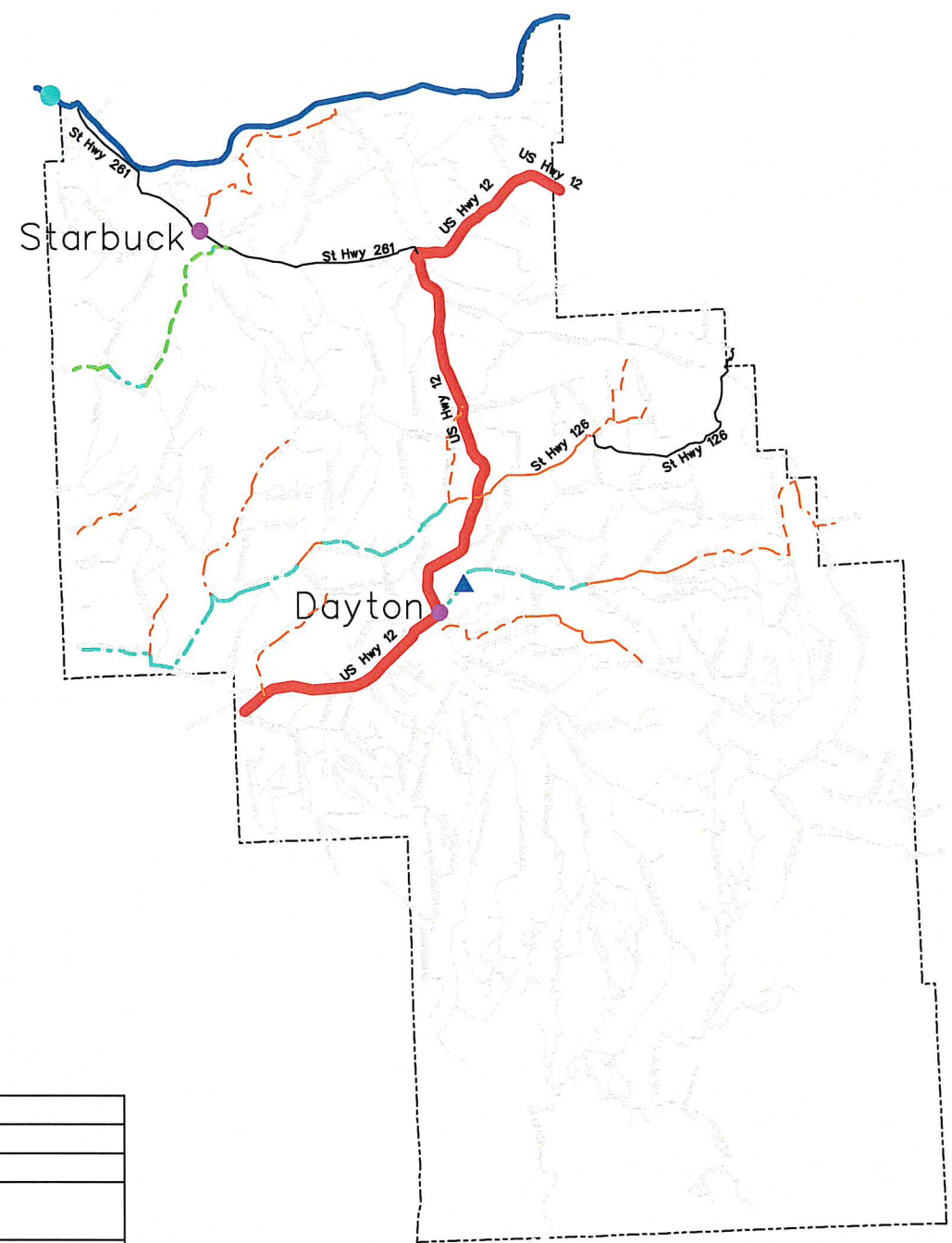
Tonnages indicated are in addition to road tonnages identified in Figure 1.

SNAKE RIVER DRAWDOWN  
STUDY FOR LTC - PHASE II

ASOTIN COUNTY  
TONNAGE IMPACT

June 2000

REVISIONS		
NO.	DATE	DESCRIPTION



**LEGEND**

RESTRICTED BRIDGE	▲		
CITY	●		
BARGE LOADING SITE	●		
COLUMBIA RIVER & SNAKE RIVER	—		
COUNTY BORDER	- - - - -		
	CURRENT TRUCK ROUTES		CURRENT NON-TRUCK ROUTES
	ALL-WEATHER	NOT ALL-WEATHER *	
NON-IMPACTED ROADS			
1 - 39,000	—	—	—
39,001 - 98,000	—	—	—
98,001 - 196,000	—	—	—
196,001 - 600,000	—	—	—
600,001 - 1,200,000	—	—	—
1,200,001 - 2,930,000	—	—	—

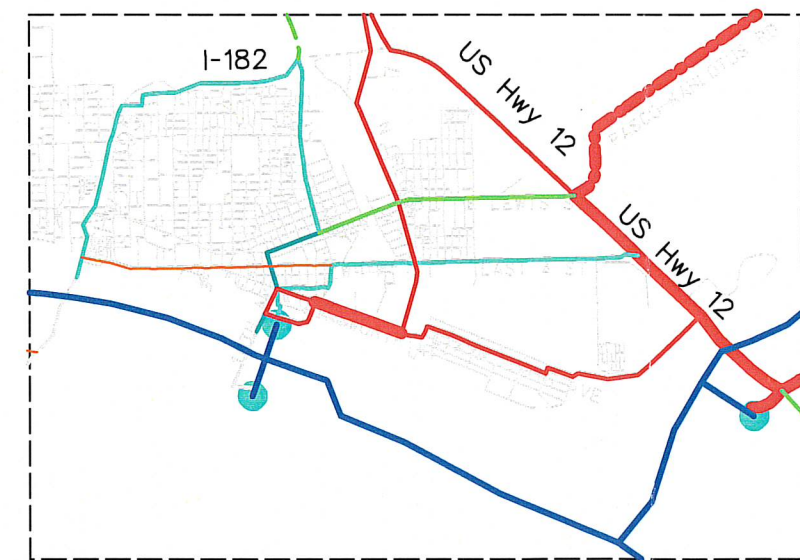
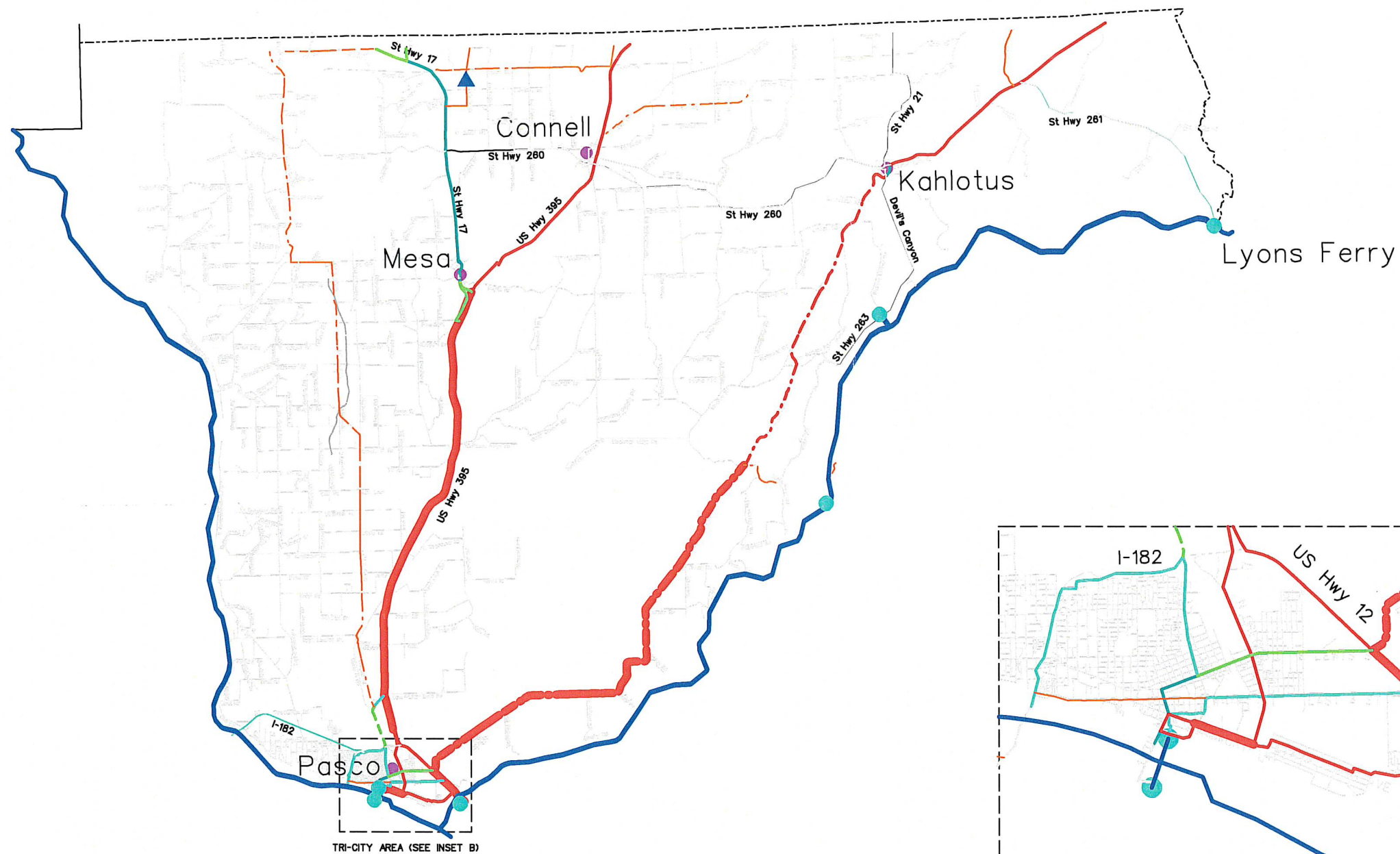
\* SOME WINTER USE LIMITATIONS OR INADEQUATE ROADWAY BASE

**Figure 5  
Increased Tonnages**

Tonnages indicated are in addition to road tonnages identified in Figure 1.

SNAKE RIVER DRAWDOWN  
STUDY FOR LTC - PHASE II  
  
COLUMBIA COUNTY  
TONNAGE IMPACT

REVISIONS		
NO.	DATE	DESCRIPTION



**LEGEND**

RESTRICTED BRIDGE	▲		
CITY	●		
BARGE LOADING SITE	●		
COLUMBIA RIVER & SNAKE RIVER	—		
COUNTY BORDER	- - - - -		
	CURRENT TRUCK ROUTES		CURRENT NON-TRUCK ROUTES
	ALL-WEATHER	NOT ALL-WEATHER *	
INCREASED TONNAGES			
NON-IMPACTED ROADS			
1 - 39,000	—	—	—
39,001 - 98,000	—	—	—
98,001 - 196,000	—	—	—
196,001 - 600,000	—	—	—
600,001 - 1,200,000	—	—	—
1,200,001 - 2,930,000	—	—	—

\* SOME WINTER USE LIMITATIONS OR INADEQUATE ROADWAY BASE

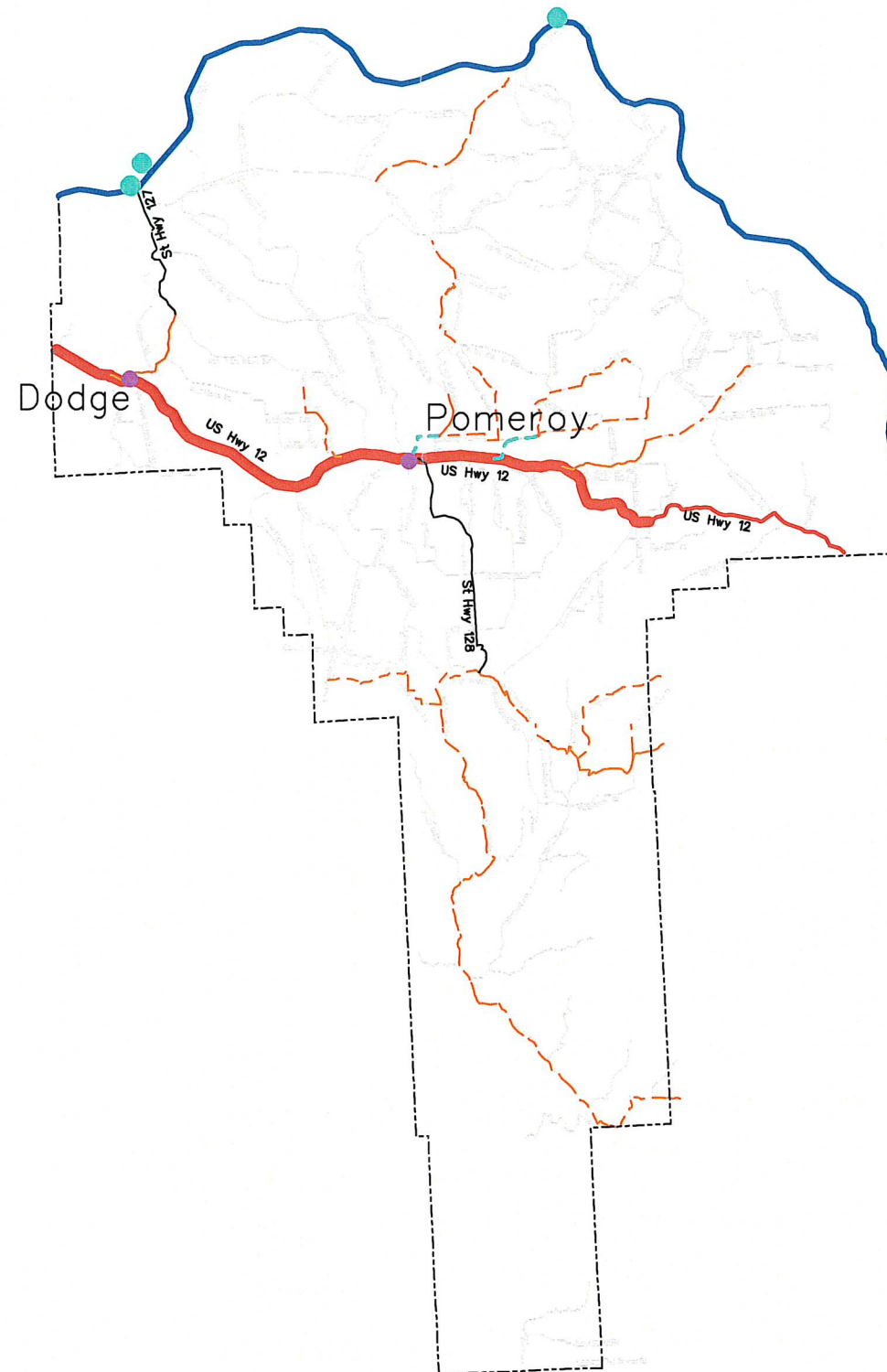
INSET B - TRI-CITIES AREA

**Figure 6**  
**Increased Tonnages**

Tonnages indicated are in addition to road tonnages identified in Figure 1.

SNAKE RIVER DRAWDOWN STUDY FOR LTC - PHASE II  
FRANKLIN COUNTY TONNAGE IMPACT

REVISIONS		
NO.	DATE	DESCRIPTION



**LEGEND**

CITY	●		
BARGE LOADING SITE	●		
COLUMBIA RIVER & SNAKE RIVER	—		
COUNTY BORDER	- - - - -		
	CURRENT TRUCK ROUTES		CURRENT NON-TRUCK ROUTES
	ALL-WEATHER	NOT ALL-WEATHER	
NON-IMPACTED ROADS 1 - 39,000	—	- - - - -	- - - - -
39,001 - 98,000	—	- - - - -	- - - - -
98,001 - 196,000	—	- - - - -	- - - - -
196,001 - 600,000	—	- - - - -	- - - - -
600,001 - 1,200,000	—	- - - - -	- - - - -
1,200,001 - 2,930,000	—	- - - - -	- - - - -

\* SOME WINTER USE LIMITATIONS OR INADEQUATE ROADWAY BASE

**Figure 7  
Increased Tonnages**

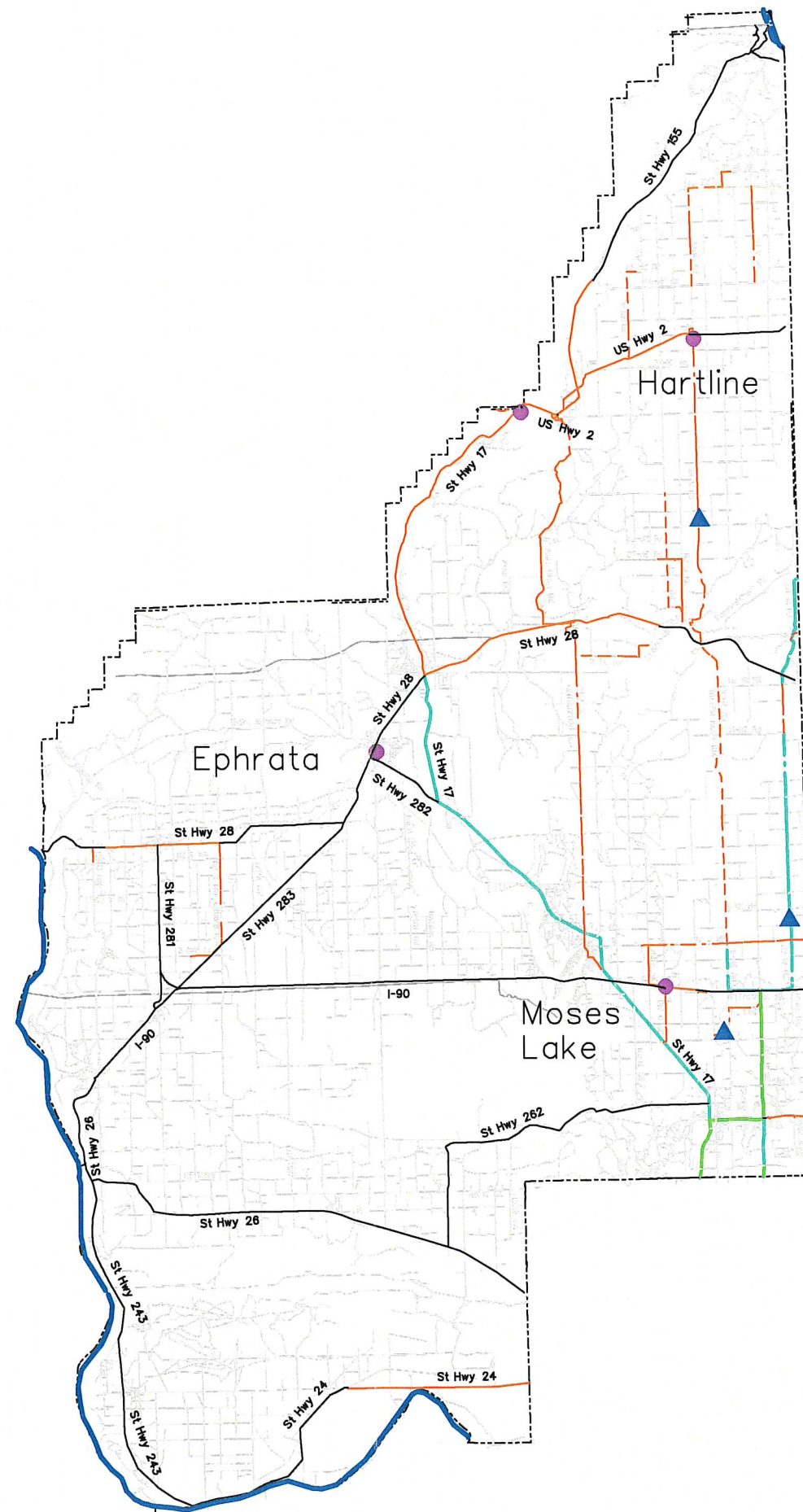
Tonnages indicated are in addition to road tonnages identified in Figure 1.

SNAKE RIVER DRAWDOWN STUDY FOR LTC - PHASE II

GARFIELD COUNTY TONNAGE IMPACT

June 2000

REVISIONS		
NO.	DATE	DESCRIPTION



LEGEND

RESTRICTED BRIDGE	▲		
CITY	●		
BARGE LOADING SITE	●		
COLUMBIA RIVER & SNAKE RIVER	—		
COUNTY BORDER	- - - - -		
INCREASED TONNAGES	CURRENT TRUCK ROUTES		CURRENT NON-TRUCK ROUTES
	ALL-WEATHER	NOT ALL-WEATHER *	
NON-IMPACTED ROADS 1 - 39,000	—	—	—
39,001 - 98,000	—	—	—
98,001 - 196,000	—	—	—
196,001 - 600,000	—	—	—
600,001 - 1,200,000	—	—	—
1,200,001 - 2,930,000	—	—	—

\* SOME WINTER USE LIMITATIONS OR INADEQUATE ROADWAY BASE

**Figure 8  
Increased Tonnages**

Tonnages indicated are in addition to road tonnages identified in Figure 1.

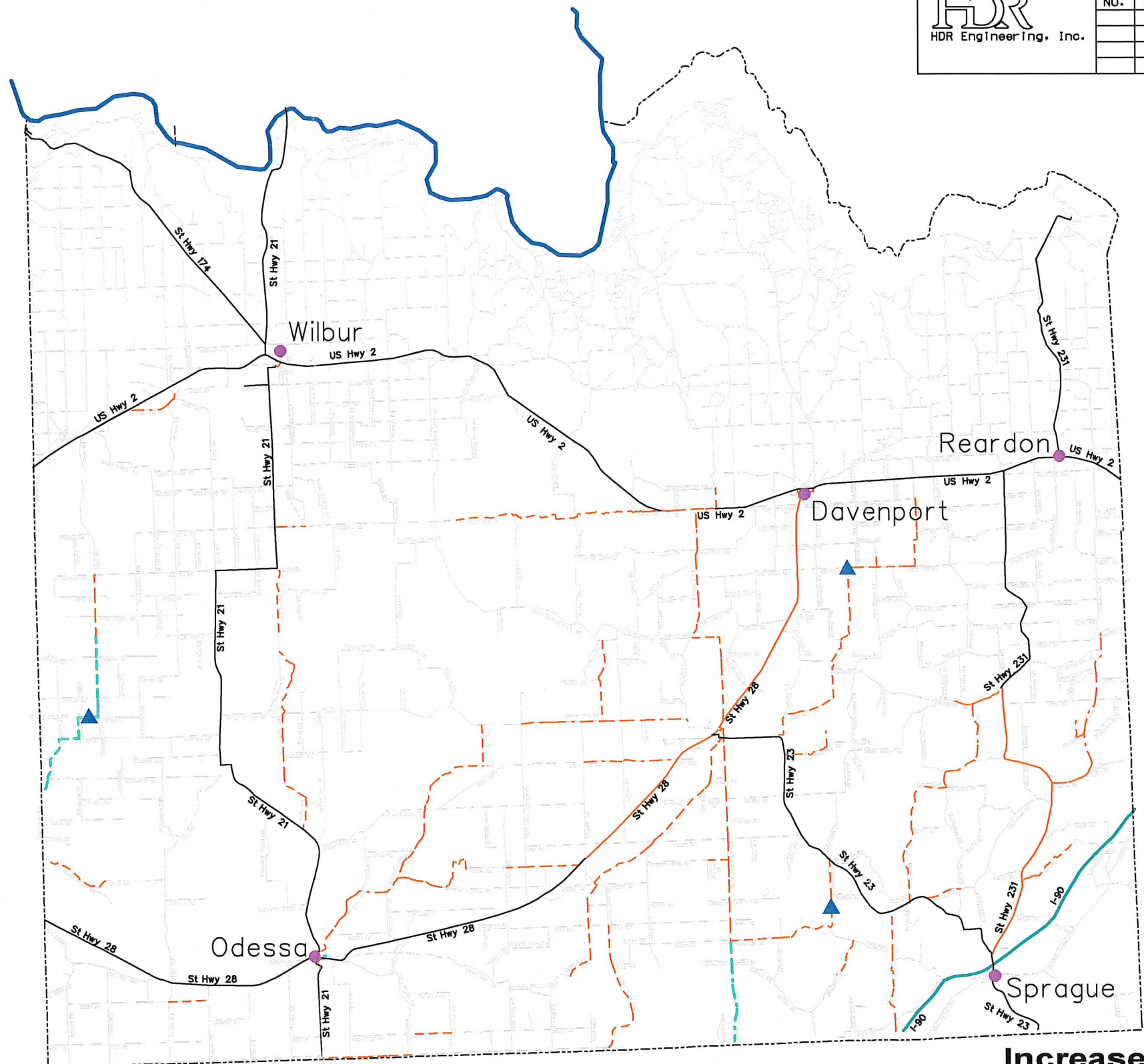
SNAKE RIVER DRAWDOWN  
STUDY FOR LTC - PHASE II

GRANT COUNTY  
TONNAGE IMPACT

June 2000



REVISIONS		
NO.	DATE	DESCRIPTION



**LEGEND**

RESTRICTED BRIDGE	▲		
CITY	●		
BARGE LOADING SITE	●		
COLUMBIA RIVER & SNAKE RIVER	—		
COUNTY BORDER	- - - - -		
INCREASED TONNAGES	CURRENT TRUCK ROUTES		CURRENT NON-TRUCK ROUTES
	ALL-WEATHER	NOT ALL-WEATHER *	
NON-IMPACTED ROADS	—	—	—
1 - 39,000	—	—	—
39,001 - 98,000	—	—	—
98,001 - 196,000	—	—	—
196,001 - 600,000	—	—	—
600,001 - 1,200,000	—	—	—
1,200,001 - 2,930,000	—	—	—

\* SOME WINTER USE LIMITATIONS OR INADEQUATE ROADWAY BASE

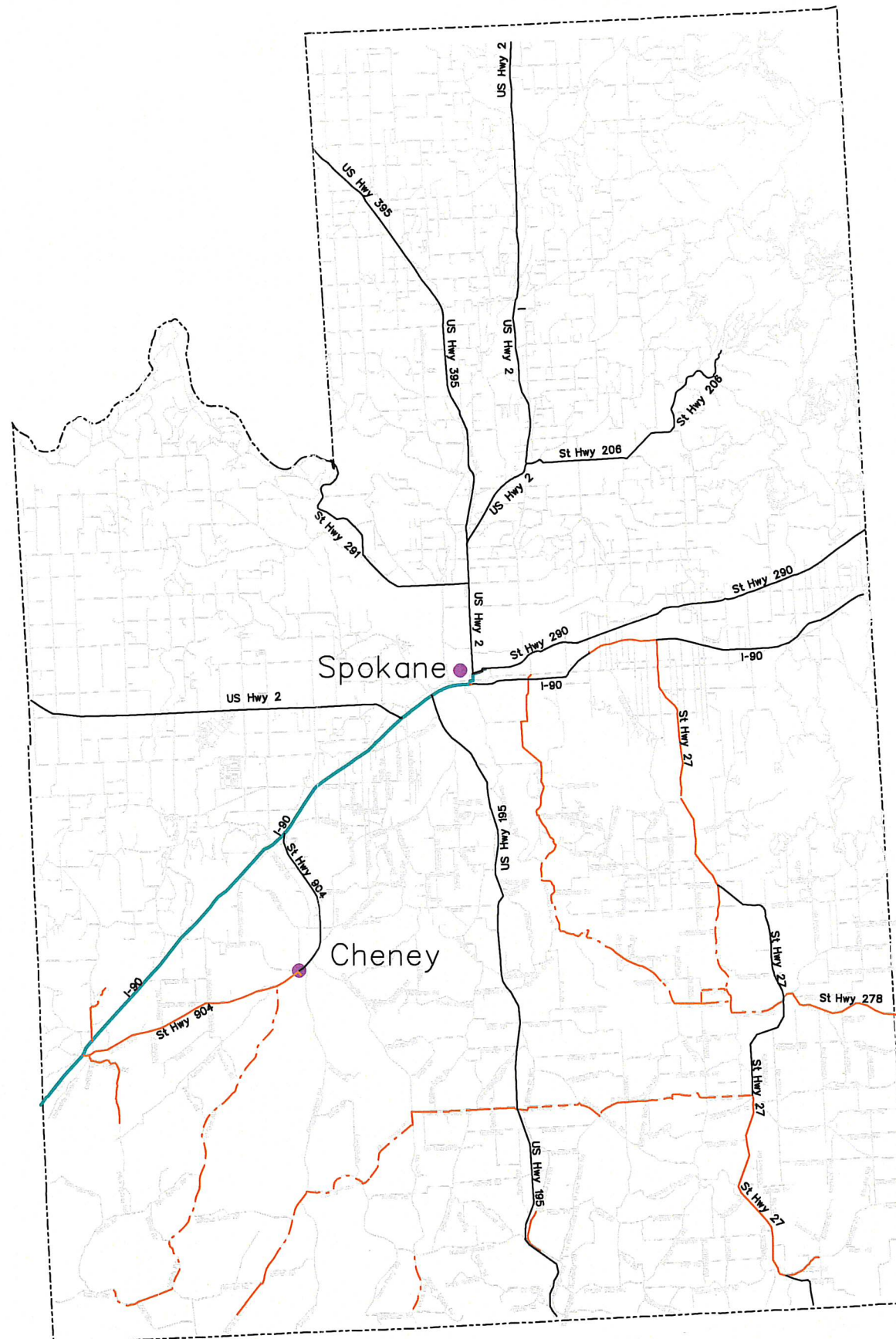
**Figure 9**  
**Increased Tonnages**

Tonnages indicated are in addition to road tonnages identified in Figure 1.

SNAKE RIVER DRAWDOWN  
STUDY FOR LTC - PHASE II

LINCOLN COUNTY  
ROADWAY SYSTEM

REVISIONS		
NO.	DATE	DESCRIPTION



**LEGEND**

CITY	●		
BARGE LOADING SITE	●		
COLUMBIA RIVER & SNAKE RIVER	—		
COUNTY BORDER	- - - - -		
	CURRENT TRUCK ROUTES		CURRENT NON-TRUCK ROUTES
	ALL-WEATHER	NOT ALL-WEATHER	
INCREASED TONNAGES			
NON-IMPACTED ROADS			
1 - 39,000	—	—	—
39,001 - 98,000	—	—	—
98,001 - 196,000	—	—	—
196,001 - 600,000	—	—	—
600,001 - 1,200,000	—	—	—
1,200,001 - 2,930,000	—	—	—

\* SOME WINTER USE LIMITATIONS OR INADEQUATE ROADWAY BASE

**Figure 10**  
**Tonnages Increased**

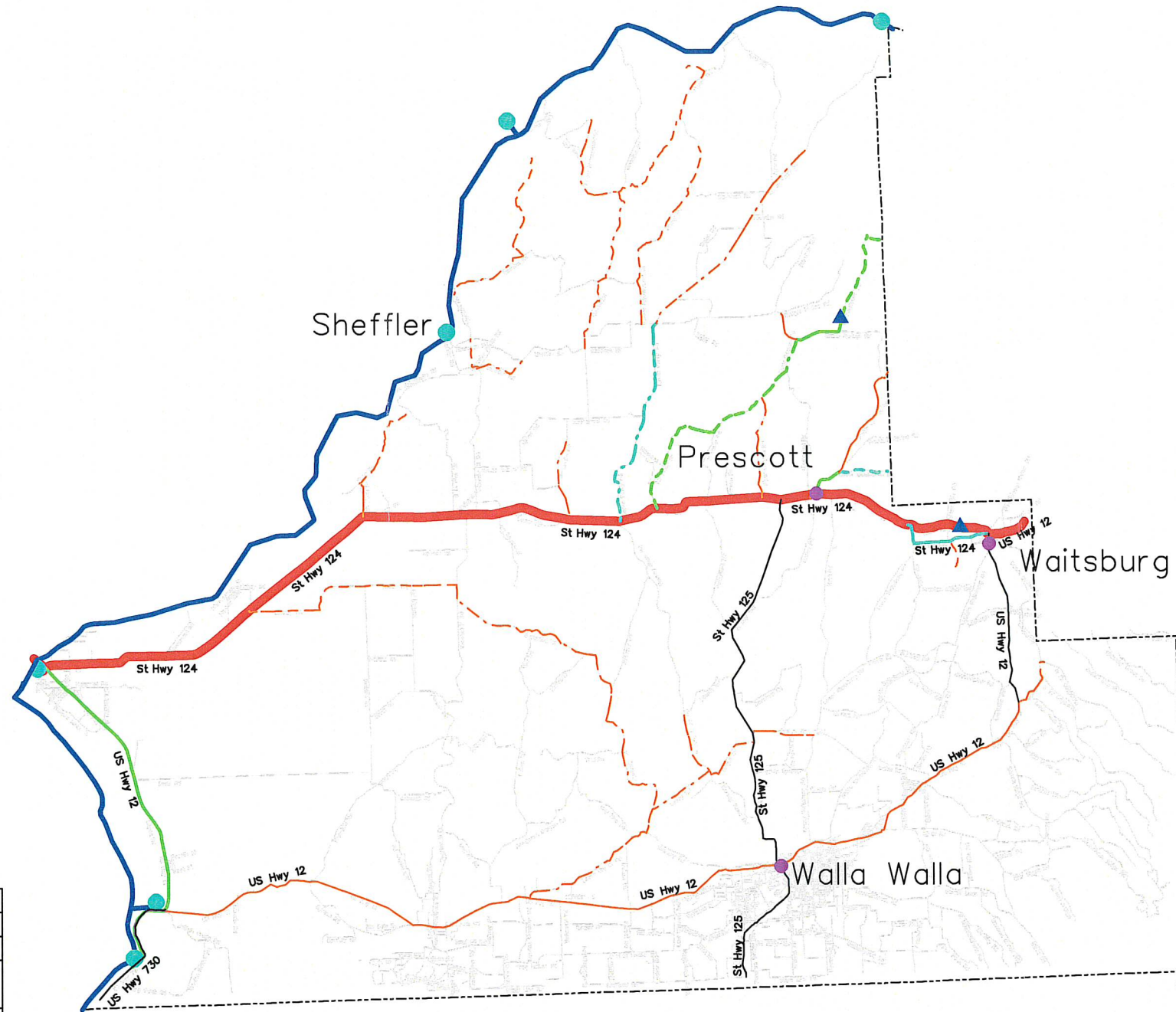
Tonnages indicated are in addition to road tonnages identified in Figure 1.

SNAKE RIVER DRAWDOWN  
STUDY FOR LTC - PHASE II

SPOKANE COUNTY  
TONNAGE IMPACT

June 2000

REVISIONS		
NO.	DATE	DESCRIPTION



LEGEND

RESTRICTED BRIDGE	▲		
CITY	●		
BARGE LOADING SITE	●		
COLUMBIA RIVER & SNAKE RIVER	—		
COUNTY BORDER	- - - - -		
	CURRENT TRUCK ROUTES		CURRENT NON-TRUCK ROUTES
	ALL-WEATHER	NOT ALL-WEATHER *	
NON-IMPACTED ROADS			
1 - 39,000	—	- - - - -	- - - - -
39,001 - 98,000	—	- - - - -	- - - - -
98,001 - 196,000	—	- - - - -	- - - - -
196,001 - 600,000	—	- - - - -	- - - - -
600,001 - 1,200,000	—	- - - - -	- - - - -
1,200,001 - 2,930,000	—	- - - - -	- - - - -

\* SOME WINTER USE LIMITATIONS OR INADEQUATE ROADWAY BASE

**Figure 11**  
**Tonnages Increased**

Tonnages indicated are in addition to road tonnages identified in Figure 1.

SNAKE RIVER DRAWDOWN  
STUDY FOR LTC - PHASE II  
  
WALLA WALLA COUNTY  
TONNAGE IMPACT

REVISIONS		
NO.	DATE	DESCRIPTION



LEGEND

RESTRICTED BRIDGE	▲		
CITY	●		
BARGE LOADING SITE	●		
COLUMBIA RIVER & SNAKE RIVER	—		
COUNTY BORDER	- - - - -		
INCREASED TONNAGES	CURRENT TRUCK ROUTES		CURRENT NON-TRUCK ROUTES
	ALL-WEATHER	NOT ALL-WEATHER *	
NON-IMPACTED ROADS 1 - 39,000	—	- - - - -	- - - - -
39,001 - 98,000	—	- - - - -	- - - - -
98,001 - 196,000	—	- - - - -	- - - - -
196,001 - 600,000	—	- - - - -	- - - - -
600,001 - 1,200,000	—	- - - - -	- - - - -
1,200,001 - 2,930,000	—	- - - - -	- - - - -

\* SOME WINTER USE LIMITATIONS OR INADEQUATE ROADWAY BASE

**Figure 12**  
**Tonnages Increased**

Tonnages indicated are in addition to road tonnage identified in Figure 1.

SNAKE RIVER DRAWDOWN  
STUDY FOR LTC - PHASE II

WHITMAN COUNTY  
TONNAGE IMPACT

June 2000