

**Region C Water Planning Group
Irrigation Demand Projections**

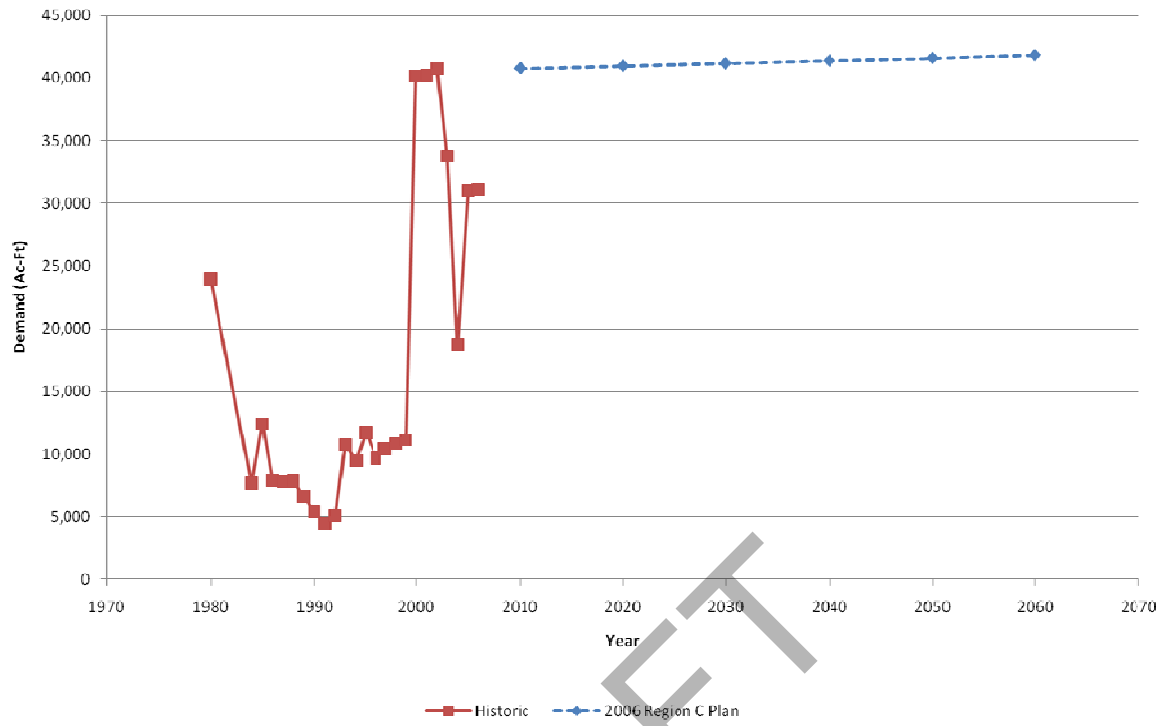
PROJECT: 0312-041-01
DATE: July 30, 2009
PREPARED FOR: Region C Water Planning Group
PREPARED BY: Alan Plummer Associates, Inc.

Background

Municipal water demand projections in the 2006 Region C Plan were based on per capita dry-year water use and the adopted population projections. Projections of the irrigation demand relied on the analysis of historical trends and Texas Water Development Board (TWDB) draft projections. The TWDB Water Uses Section conducts the Annual Survey of Ground and Surface Water Use to collect current, accurate information on quantities, sources, and related water use data. To gather additional information regarding irrigation and livestock, questionnaires were mailed to the 16 County Agricultural Extension Agents. Collected data was then used to develop summary water use information for irrigation water use estimates.

The most recent irrigation water use estimates available from the TWDB are for the year 2006. Attachment A provides a comparison of historical irrigation usage and projections by county in Region C. Figure 1 provides a comparison of irrigation water usage and projections in Region C. In 2006, the Region C irrigation water demand was approximately 31,000 acre-ft/yr. As noted in Figure 1, historical irrigation water use is consistent with the adopted 2006 Region C projections. For the purpose of the 2011 Regional Water Plan, no changes to the irrigation water use projections are recommended at this time.

Figure 1. 2006 Region C Plan Irrigation Projections



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Table 1. 2006 Region C Irrigation Water Consumption Projections

County	Year						
	2000	2010	2020	2030	2040	2050	2060
Collin County	2995	2,995	2,995	2,995	2,995	2,995	2,995
Cooke County	0	444	444	444	444	444	444
Dallas County	13087	13,087	13,087	13,087	13,087	13,087	13,087
Denton County	2108	2108	2108	2108	2108	2108	2108
Ellis County	583	583	583	583	583	583	583
Fannin County	4608	4608	4608	4608	4608	4608	4608
Freestone County	8	8	8	8	8	8	8
Grayson County	3382	3,561	3,751	3,950	4,158	4,381	4,616
Henderson County	0	0	0	0	0	0	0
Jack County	0	0	0	0	0	0	0
Kaufman County	2916	2916	2916	2916	2916	2916	2916
Navarro County	0	0	0	0	0	0	0
Parker County	422	422	422	422	422	422	422
Rockwall County	1125	1125	1125	1125	1125	1125	1125
Tarrant County	8417	8,417	8,417	8,417	8,417	8,417	8,417
Wise County	502	502	502	502	502	502	502
Region C Total	40,153	40,776	40,966	41,165	41,373	41,596	41,831

**Attachment A
Irrigation Demand by County
Including 2006 Projections**

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Figure 1. Collin County Irrigation Demands

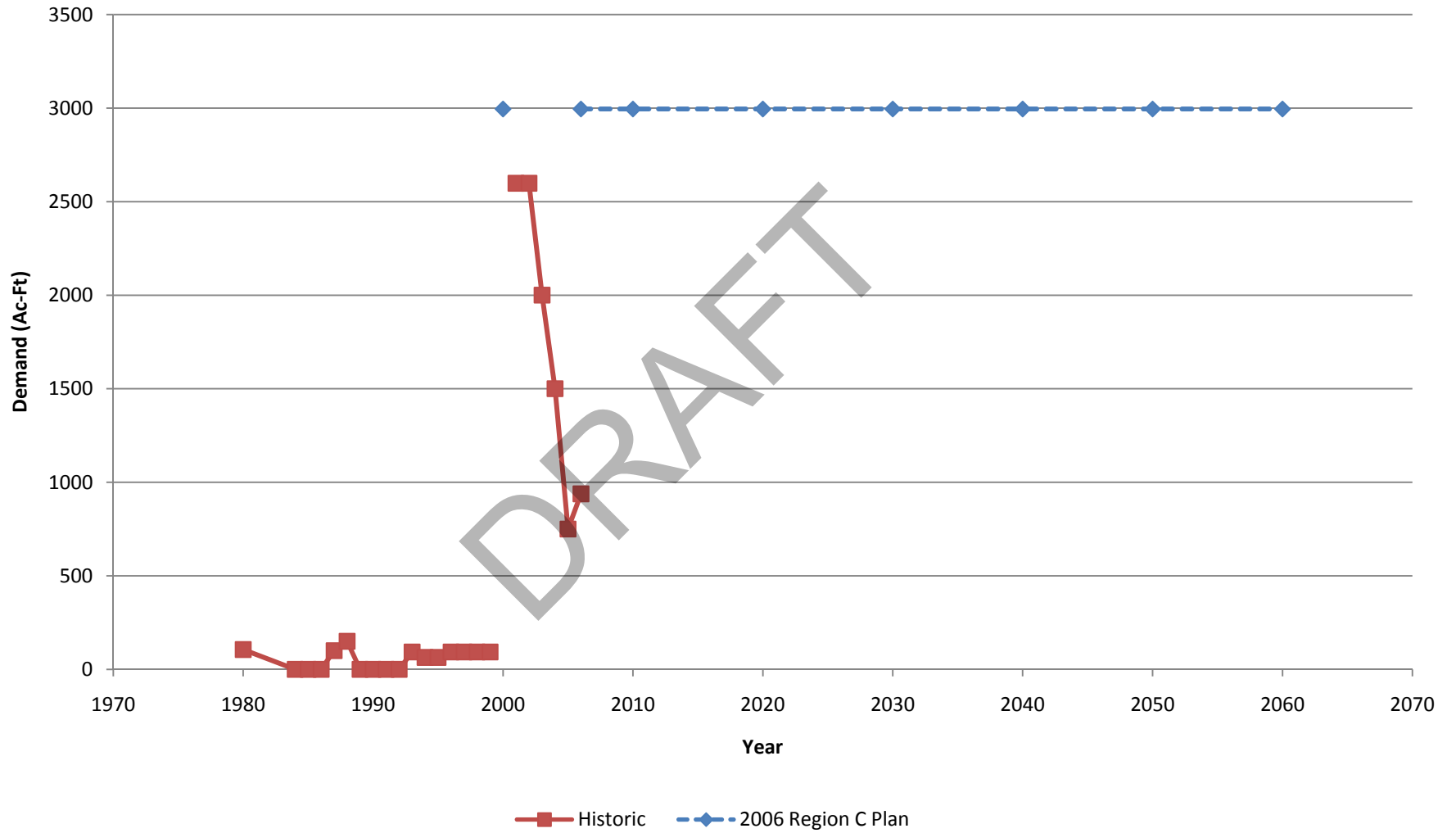


Figure 2. Cooke County Irrigation Demands

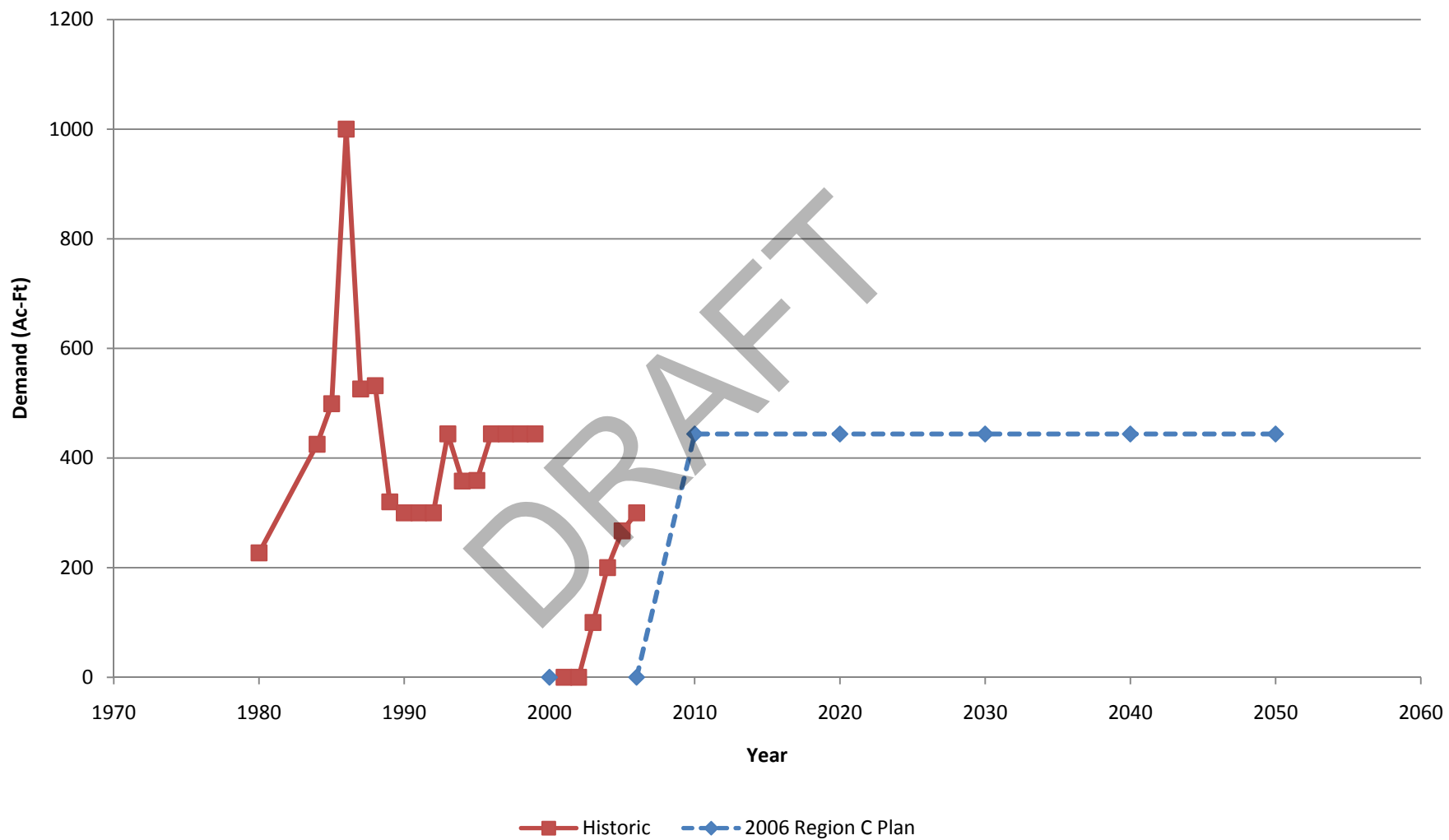


Figure 3. Dallas County Irrigation Demands

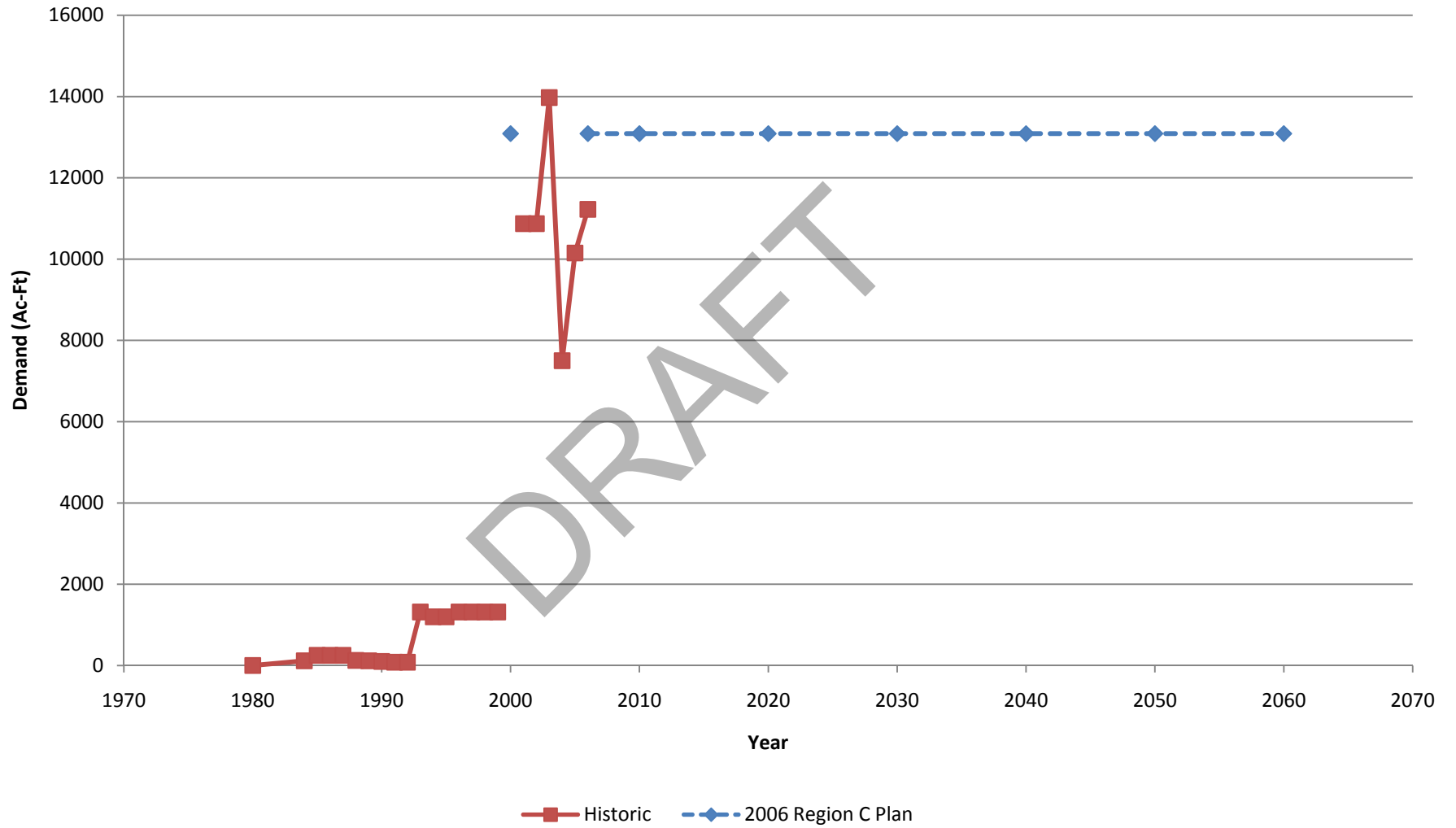


Figure 4. Denton County Irrigation Demands

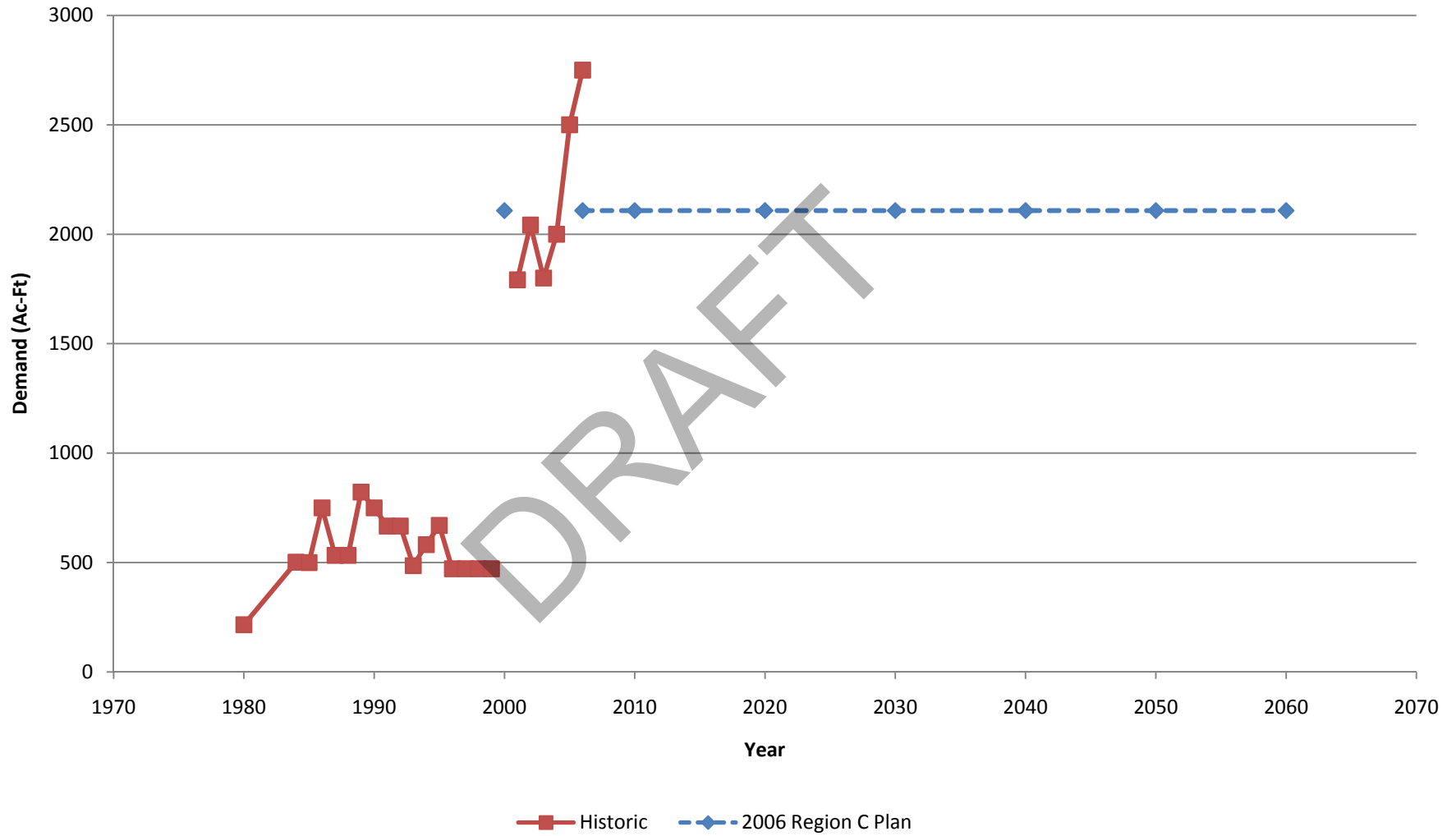


Figure 5. Ellis County Irrigation Demands

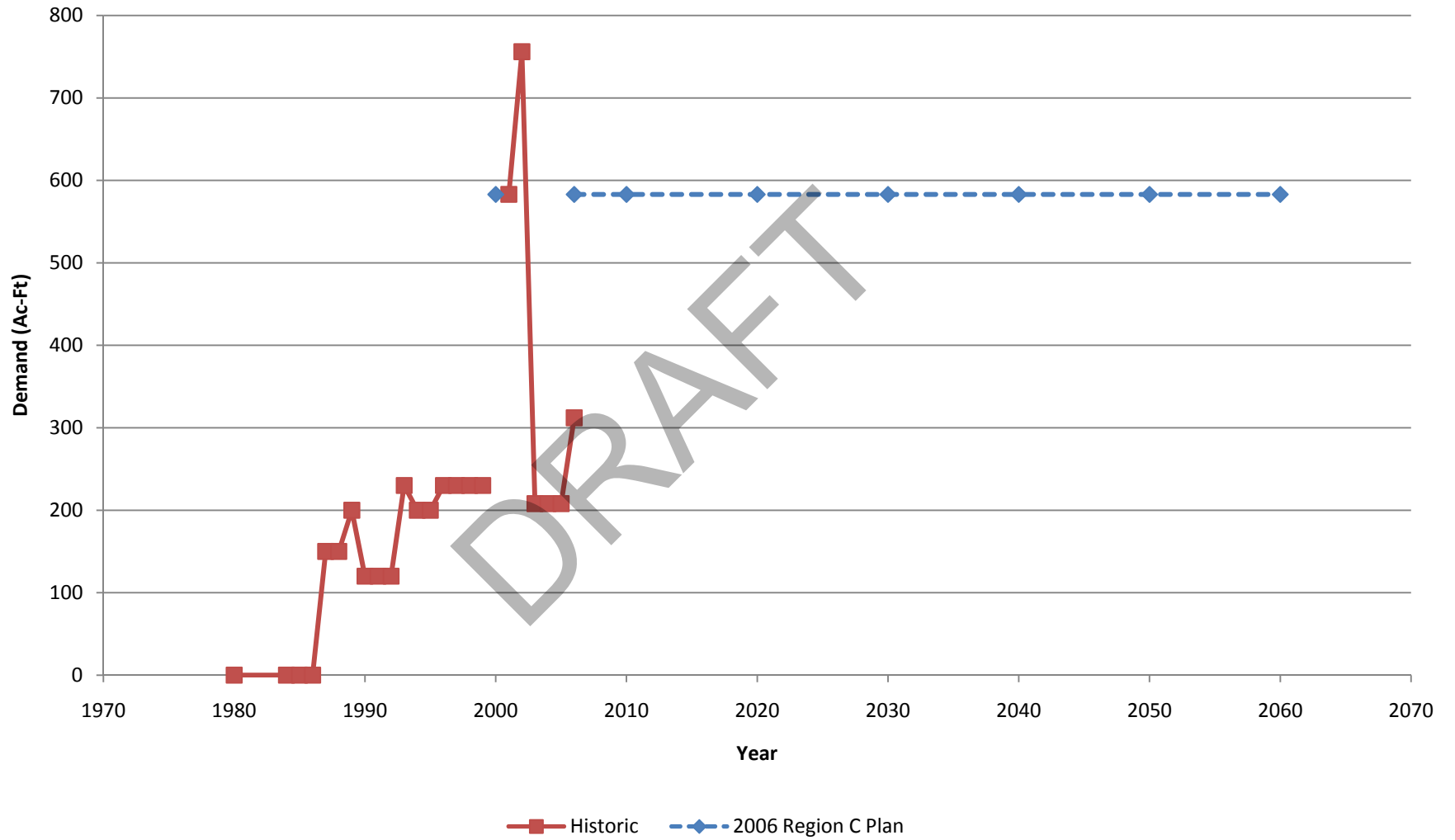


Figure 6. Fannin County Irrigation Demands

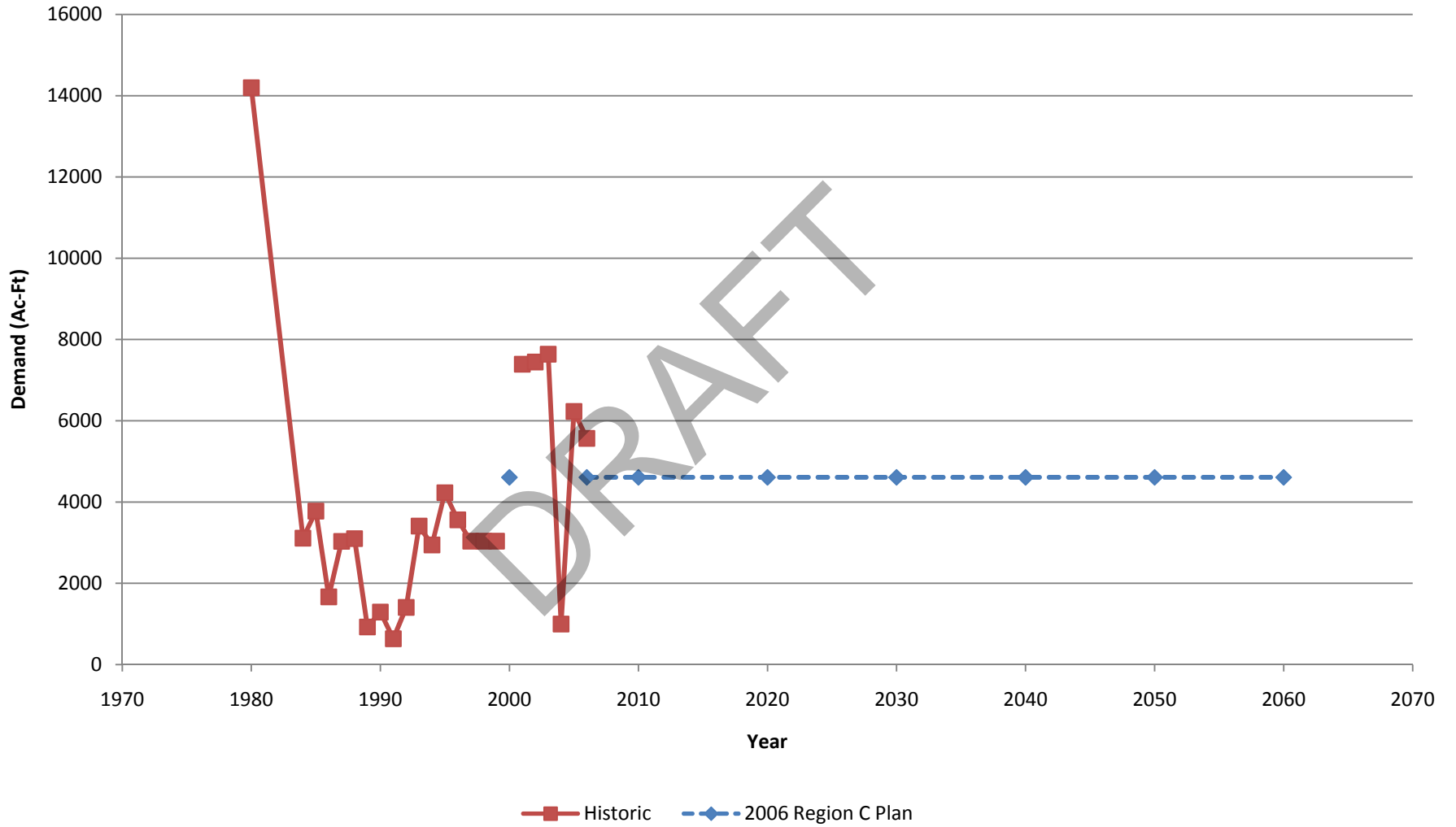


Figure 7. Freestone County Irrigation Demands

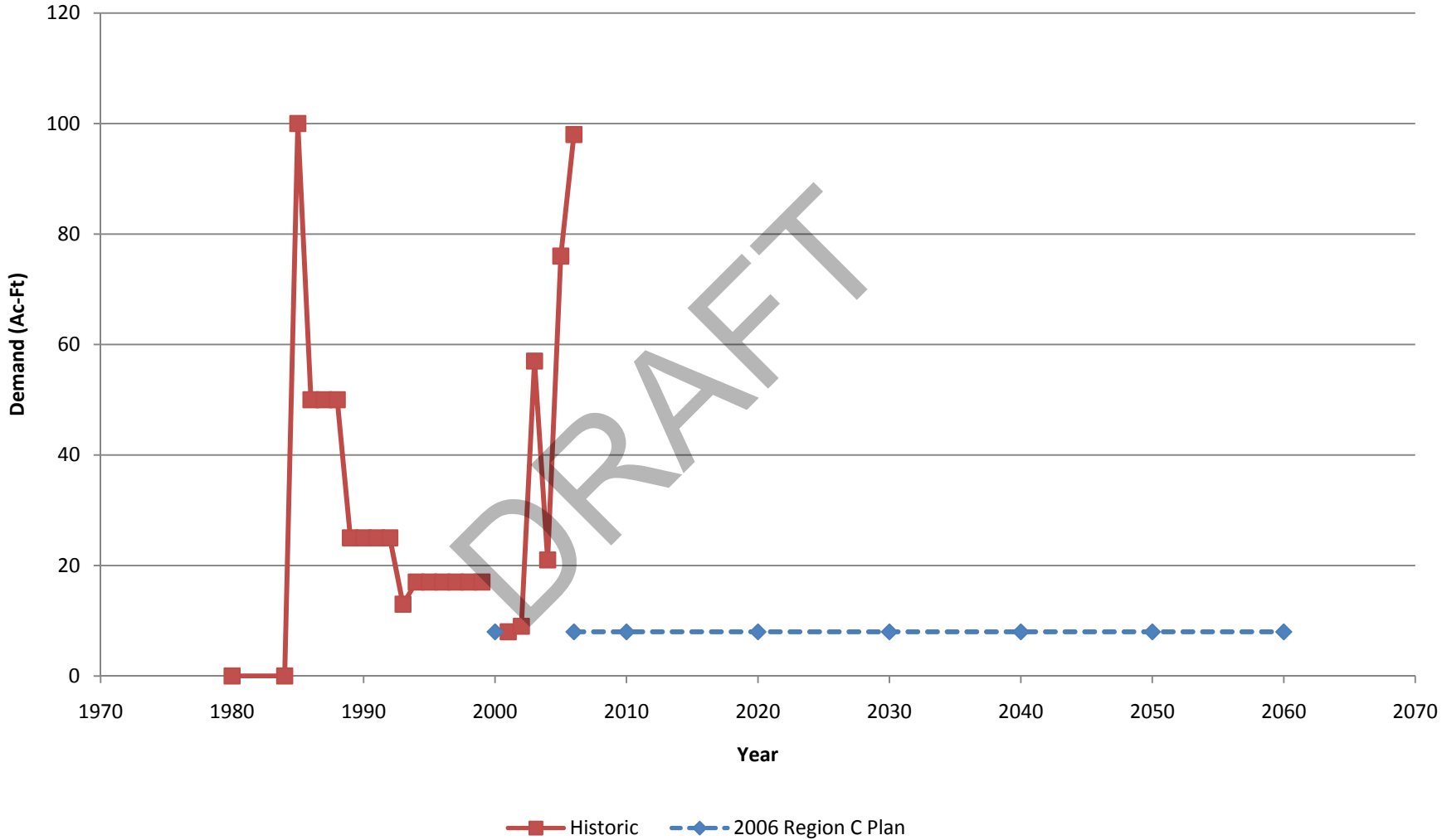


Figure 8. Grayson County Irrigation Demands

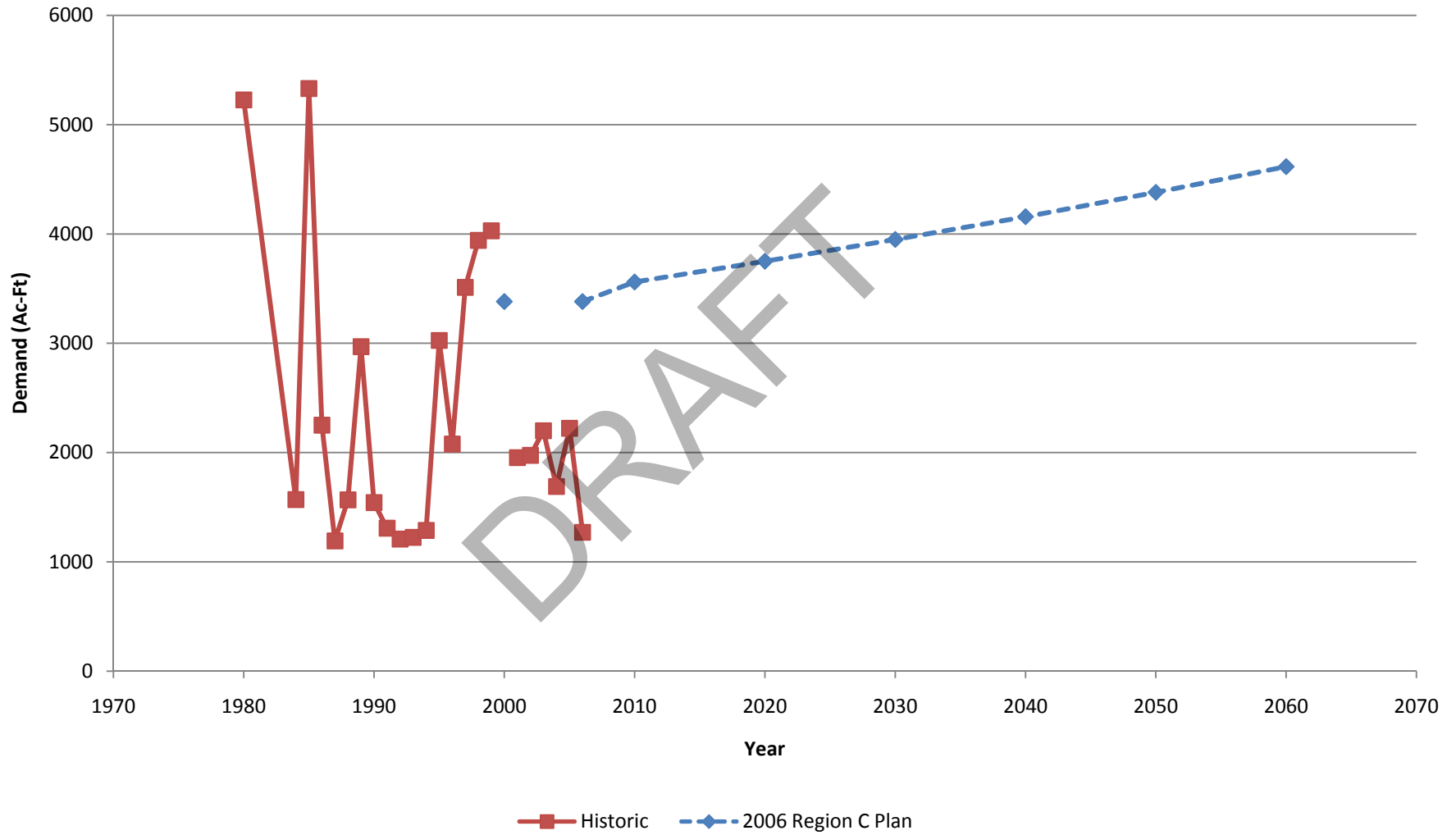


Figure 9. Henderson County Irrigation Demands

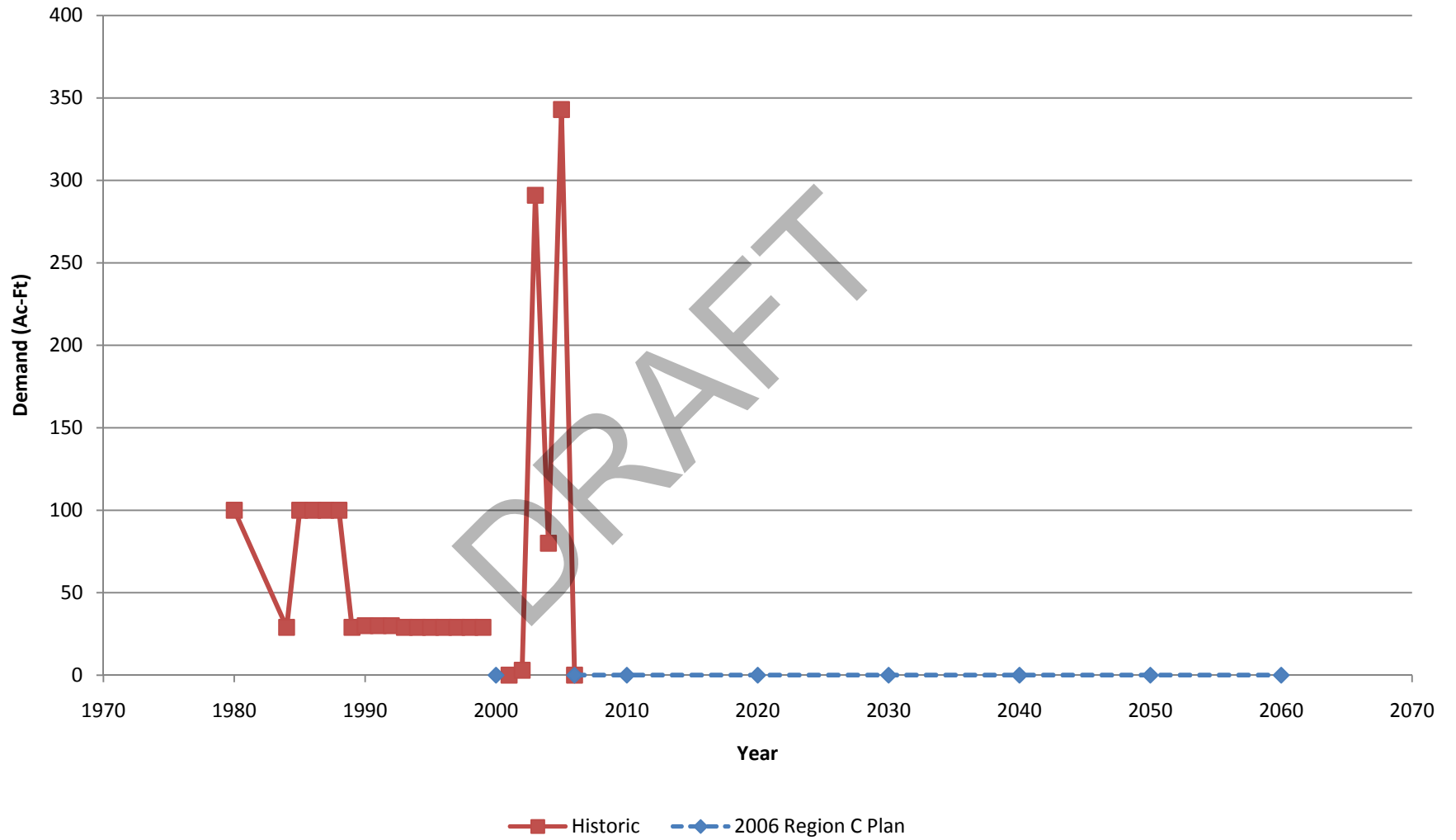


Figure 10. Jack County Irrigation Demands

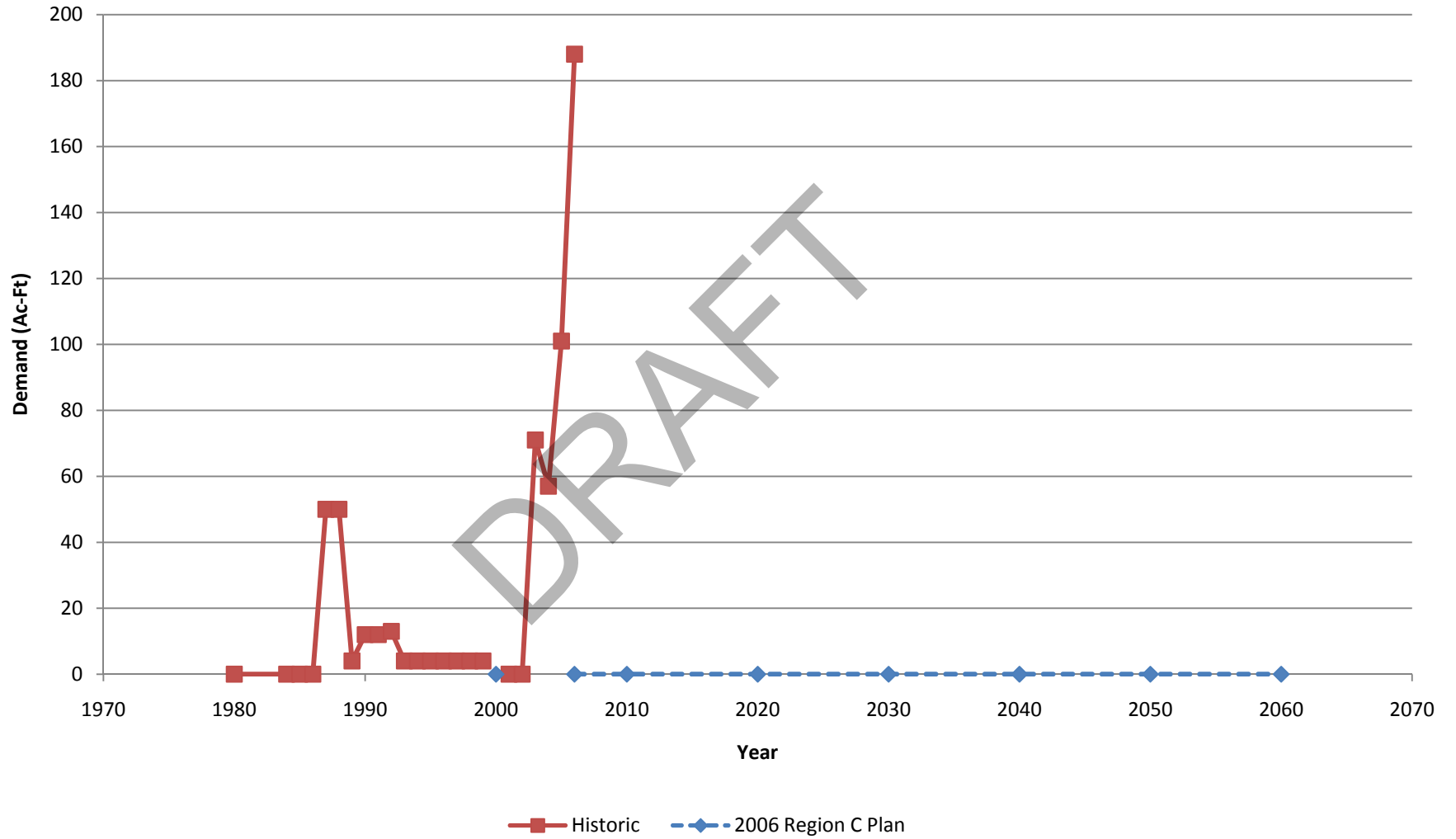


Figure 11. Kaufman County Irrigation Demands

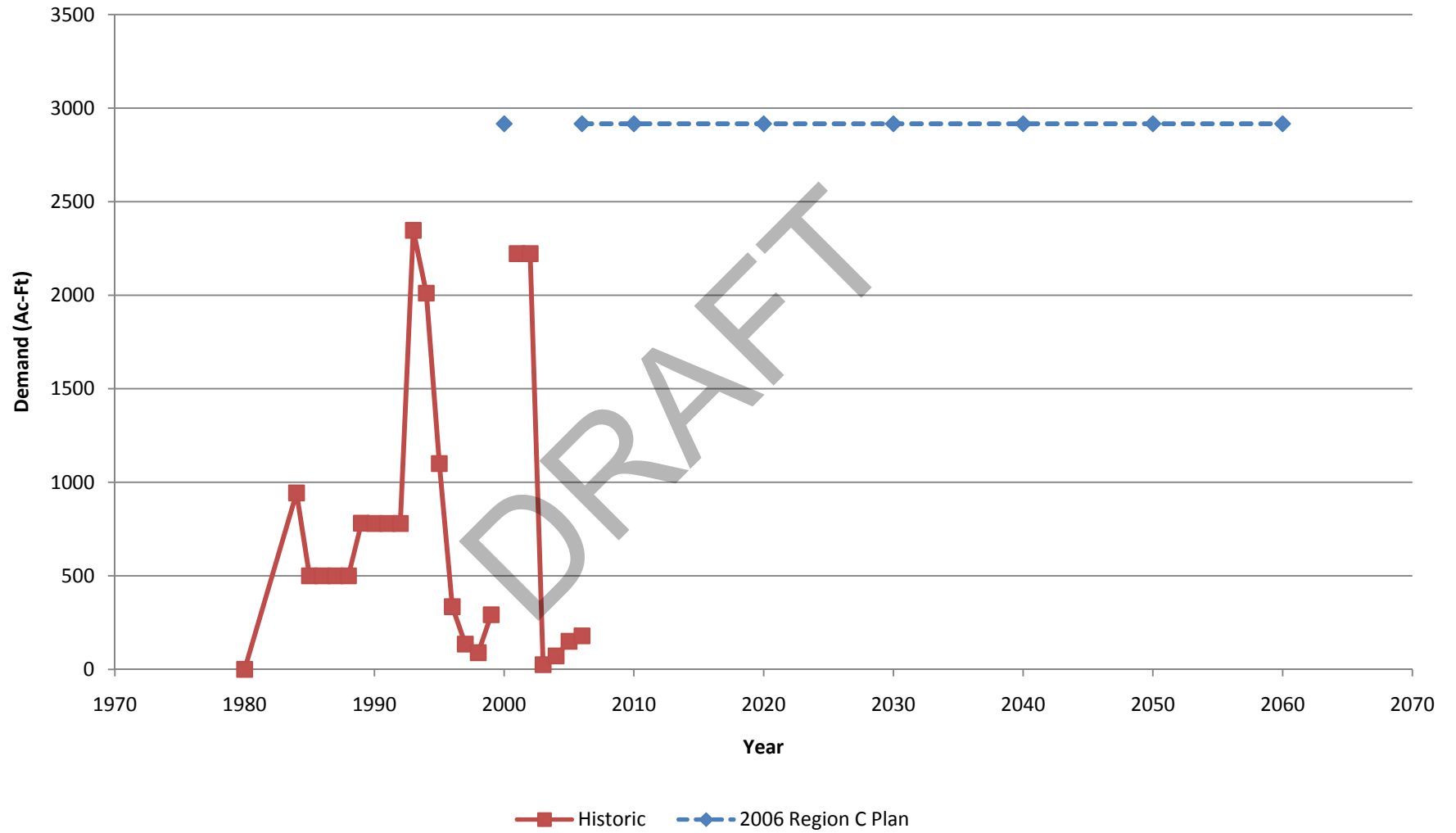


Figure 12. Navarro County Irrigation Demands

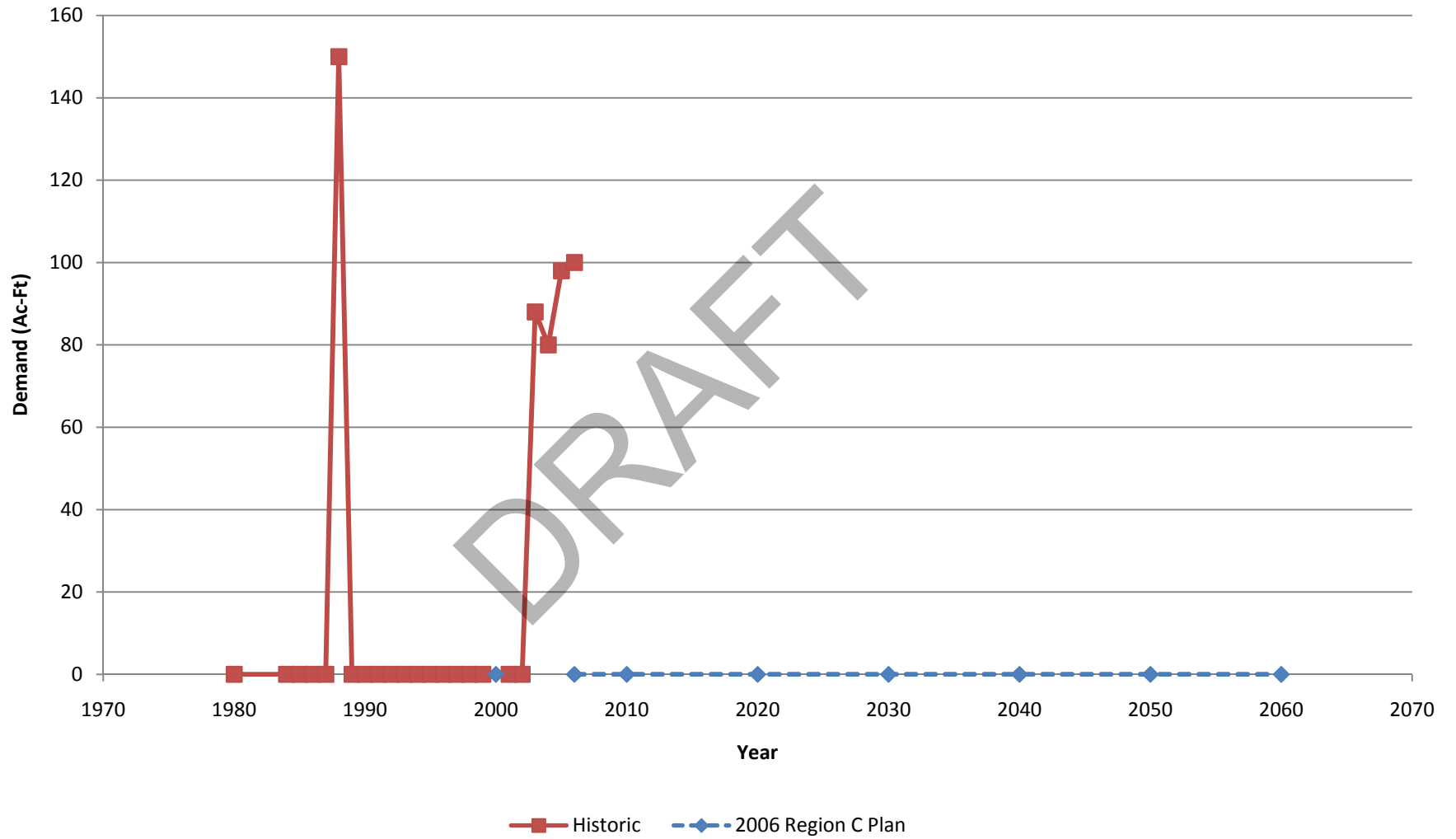


Figure 13. Parker County Irrigation Demands

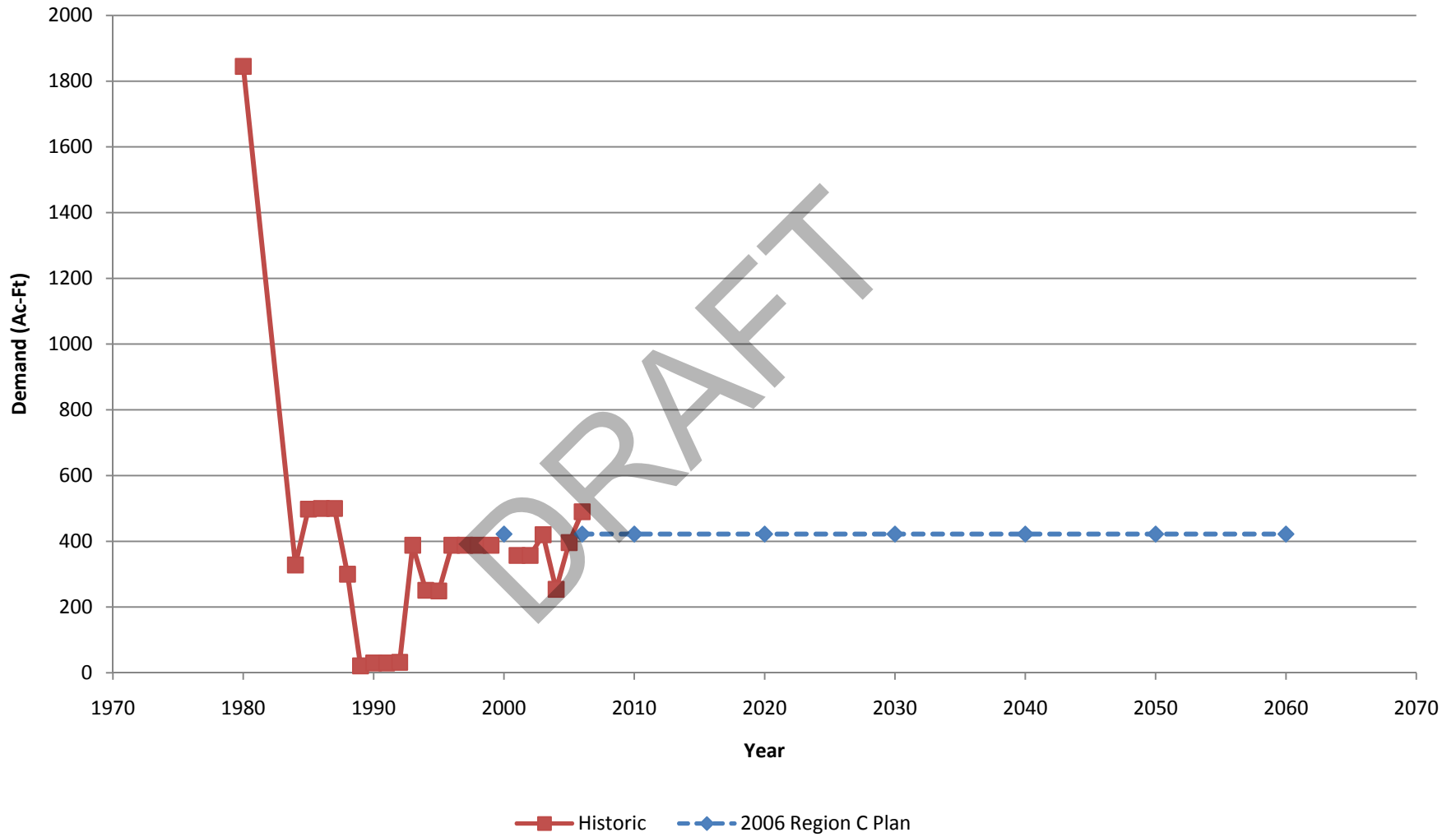


Figure 14. Rockwall County Irrigation Demands

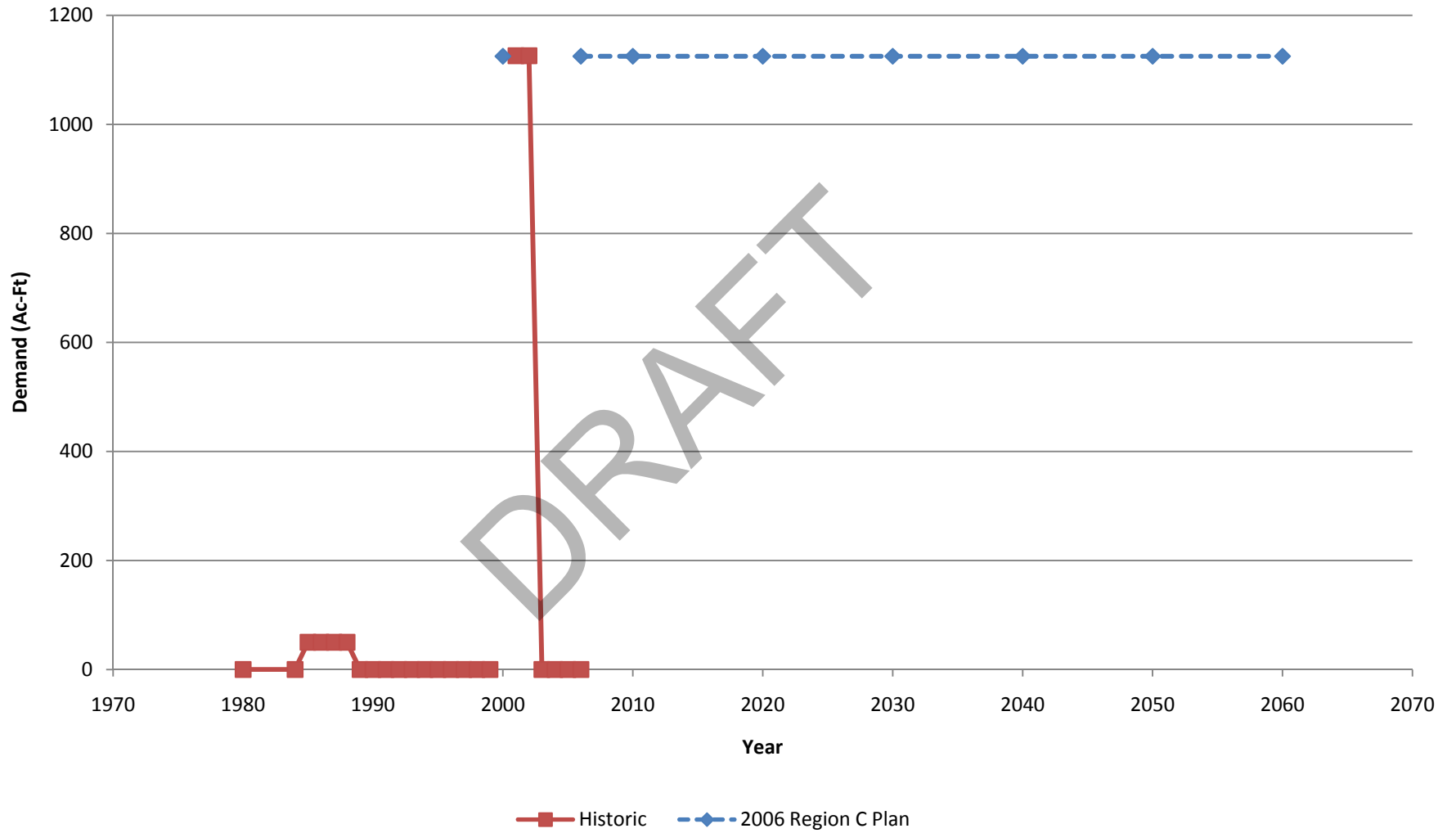


Figure 15. Tarrant County Irrigation Demands

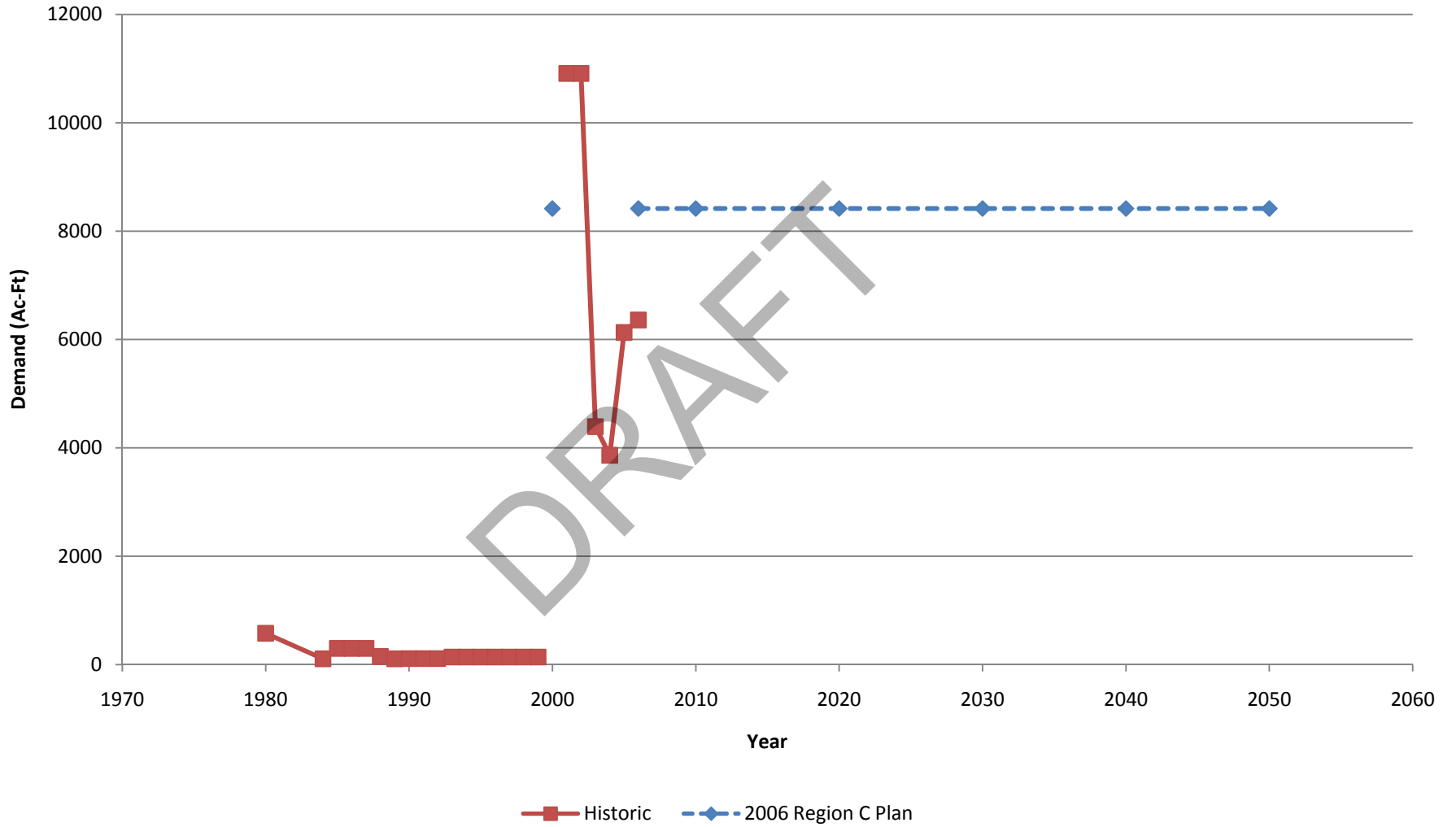


Figure 16. Wise County Irrigation Demands

