

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

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

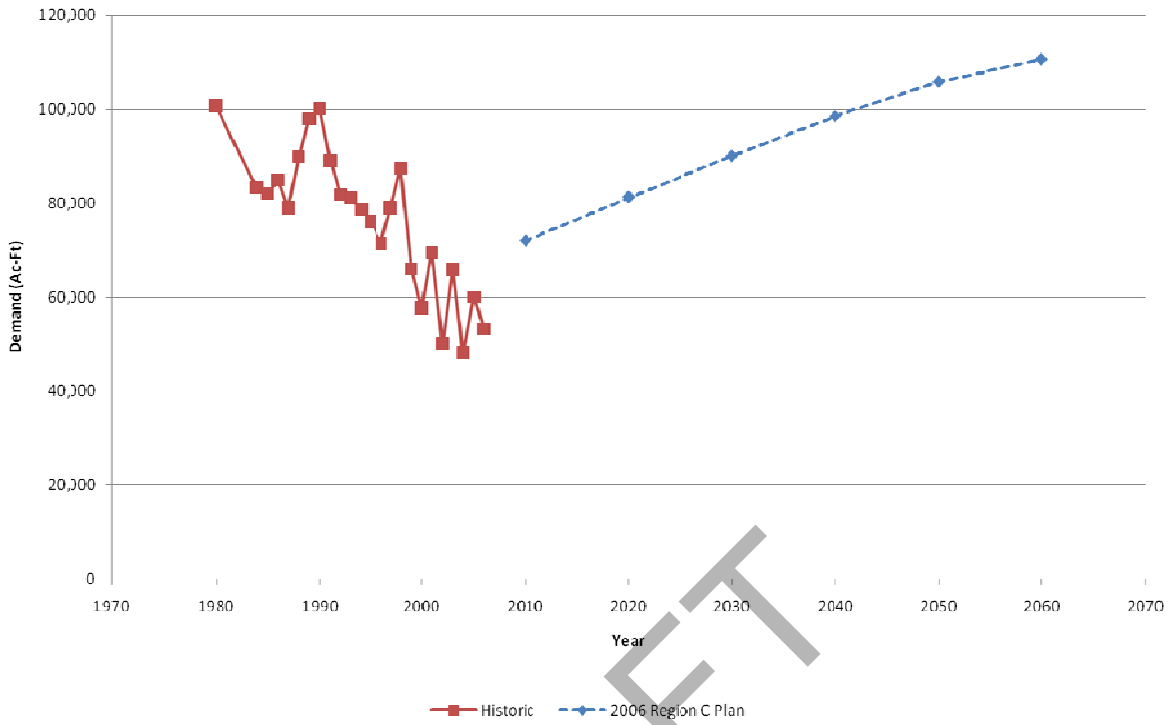
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**Background**

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 manufacturing 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. Collected data was then used to develop summary water use information for manufacturing water use estimates.

The most recent manufacturing water use estimates available from the TWDB are for the year 2006. Attachment A provides a comparison of historical manufacturing usage and projections by county in Region C. Figure 1 provides a comparison of manufacturing water usage and projections in Region C. In 2006, the Region C manufacturing water demand was approximately 53,000 acre-ft/yr. As noted in Figure 1, historical manufacturing water use is consistent with the adopted 2006 Region C projections. For the purpose of the 2011 Regional Water Plan, no changes to the manufacturing water use projections are recommended at this time.

**Figure 1. 2006 Region C Manufacturing Demands**



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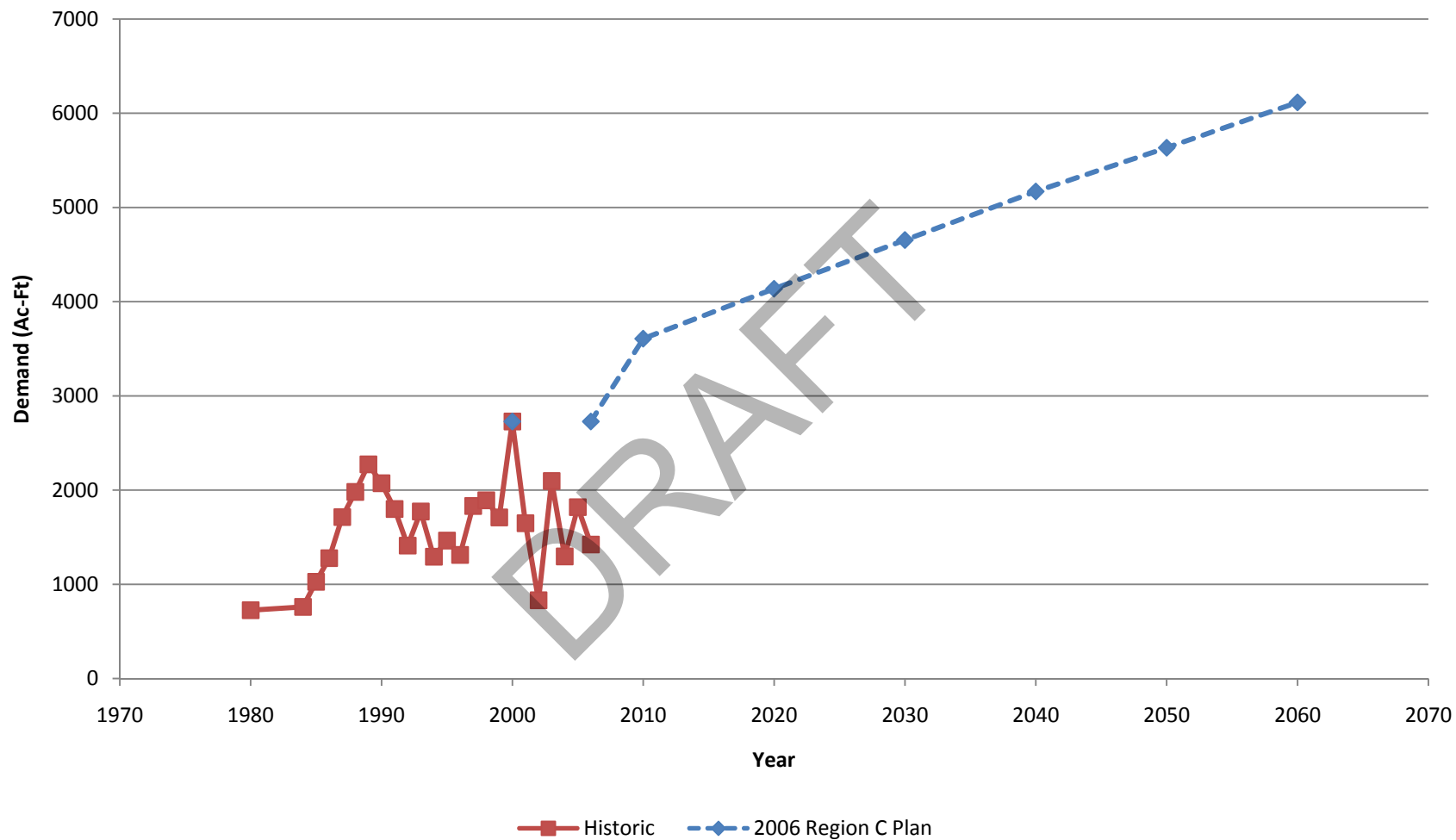
**Table 1. 2006 Region C Manufacturing Water Consumption Projections**

<b>County</b>	<b>Year</b>						
	<b>2000</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
Collin County	2728	3,607	4,137	4,654	5,170	5,633	6,115
Cooke County	221	273	306	335	364	389	421
Dallas County	28159	34,115	37,791	41,148	44,214	46,703	46,983
Denton County	806	1,068	1,239	1,408	1,579	1,731	1,880
Ellis County	3049	3,466	3,670	3,841	3,987	4,089	3,912
Fannin County	58	73	82	90	98	105	114
Freestone County	0	0	0	0	0	0	0
Grayson County	6235	7,010	7,781	8,453	9,088	9,621	10,444
Henderson County	293	110	118	133	151	172	195
Jack County	0	2	2	2	2	2	2
Kaufman County	711	760	813	869	928	993	1,061
Navarro County	949	1,172	1,328	1,468	1,607	1,730	1,872
Parker County	607	779	879	974	1,068	1,150	1,248
Rockwall County	15	20	23	26	29	32	35
Tarrant County	13403	17,258	20,444	23,630	26,924	29,919	32,457
Wise County	550	2,313	2,660	2,979	3,277	3,539	3,858
<b>Region C Total</b>	<b>57,784</b>	<b>72,026</b>	<b>81,273</b>	<b>90,010</b>	<b>98,486</b>	<b>105,808</b>	<b>110,597</b>

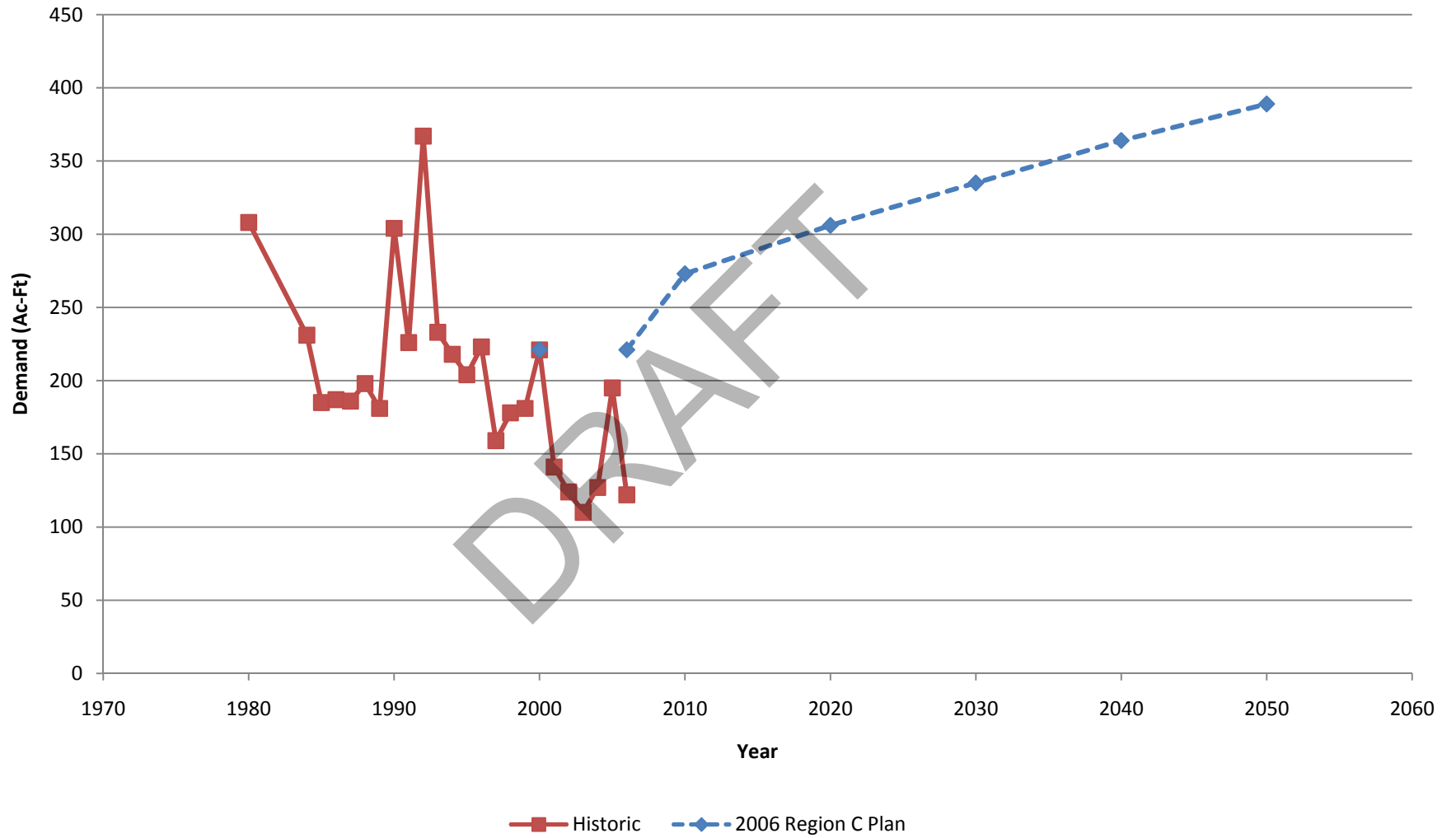
**Attachment A**  
**Manufacturing Demand by County**  
**Including 2006 Projections**

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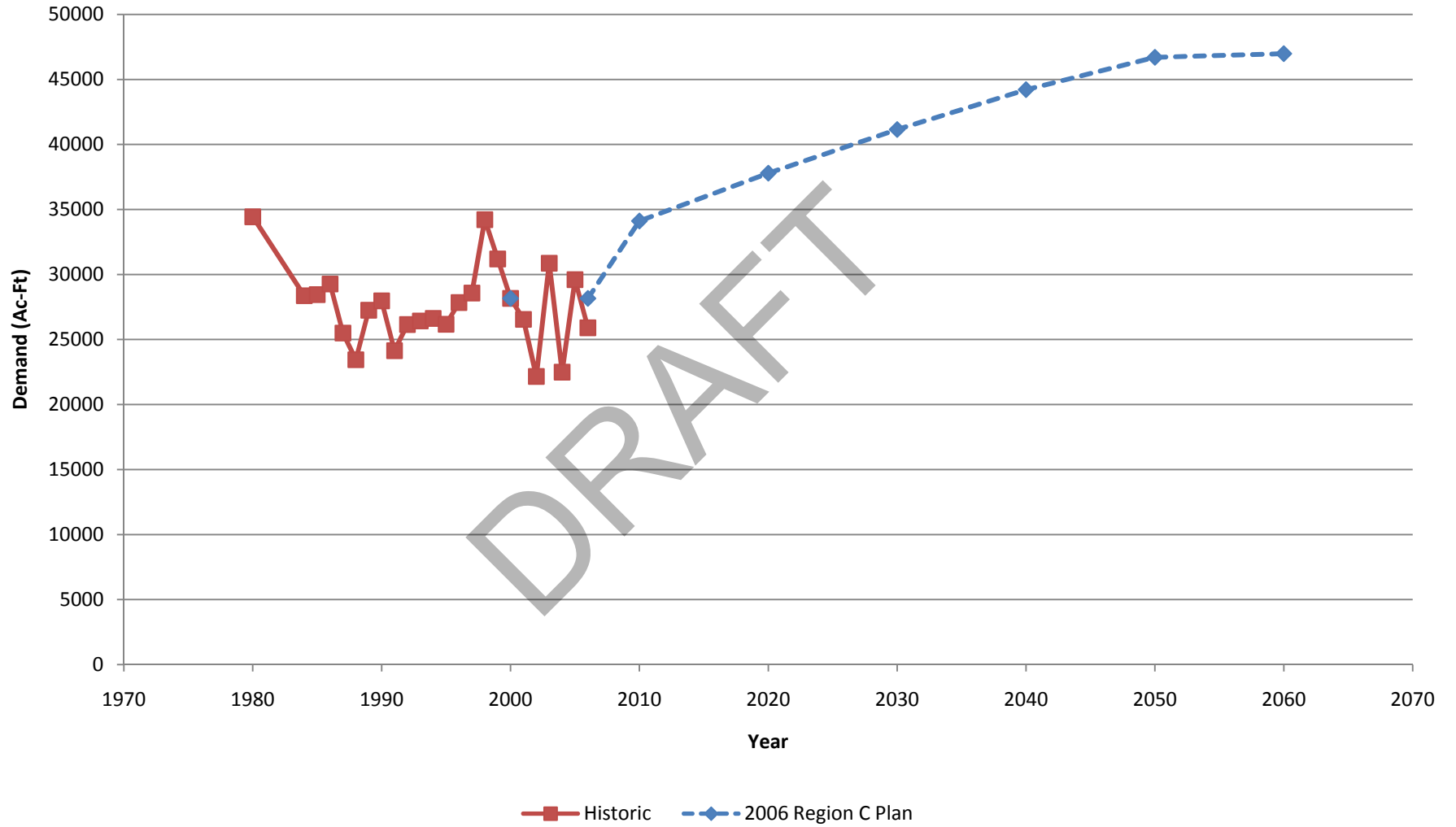
Figure 1. Collin County Manufacturing Demands



**Figure 2. Cooke County Manufacturing Demands**



**Figure 3. Dallas County Manufacturing Demands**



**Figure 4. Denton County Manufacturing Demands**

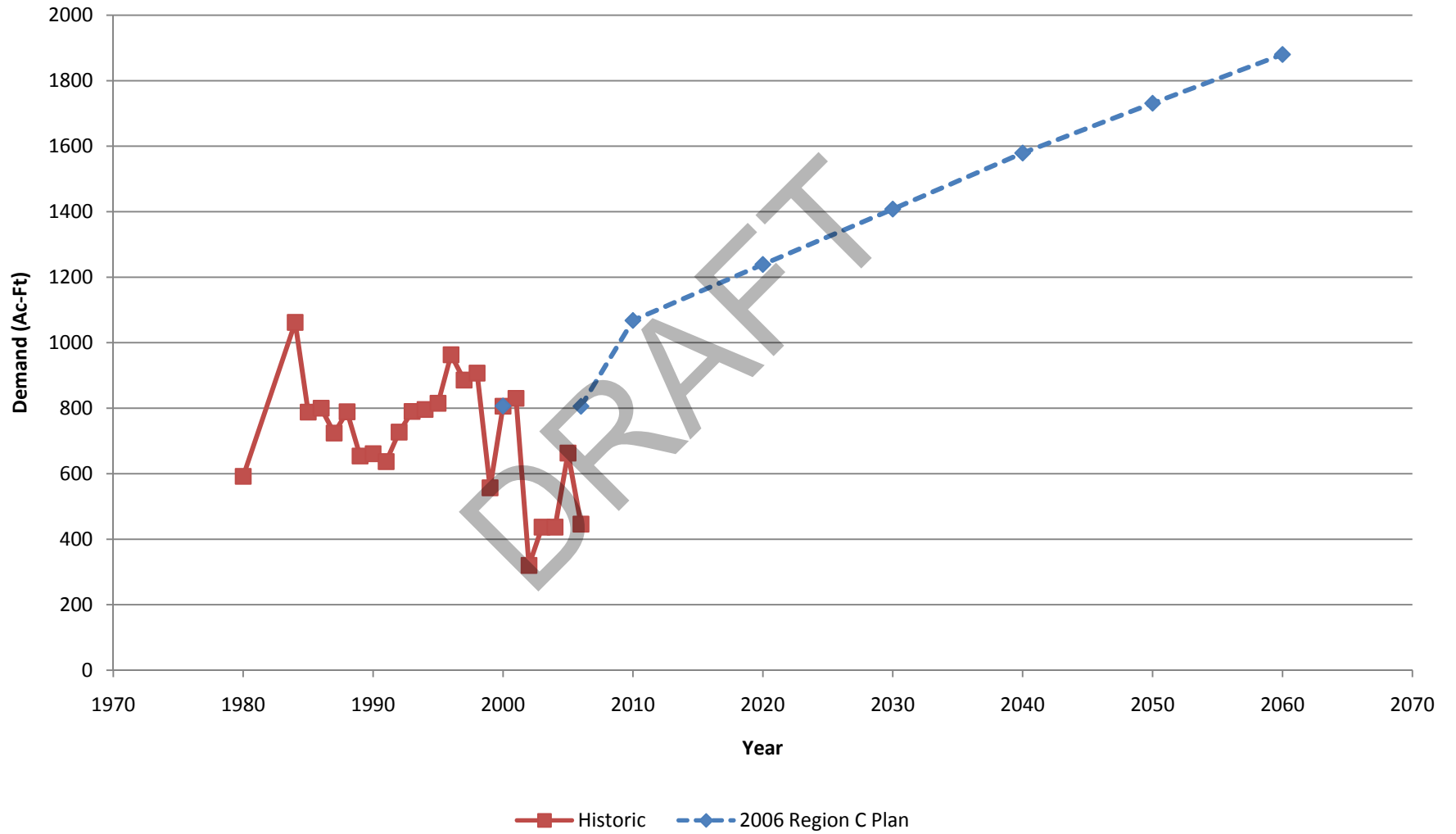
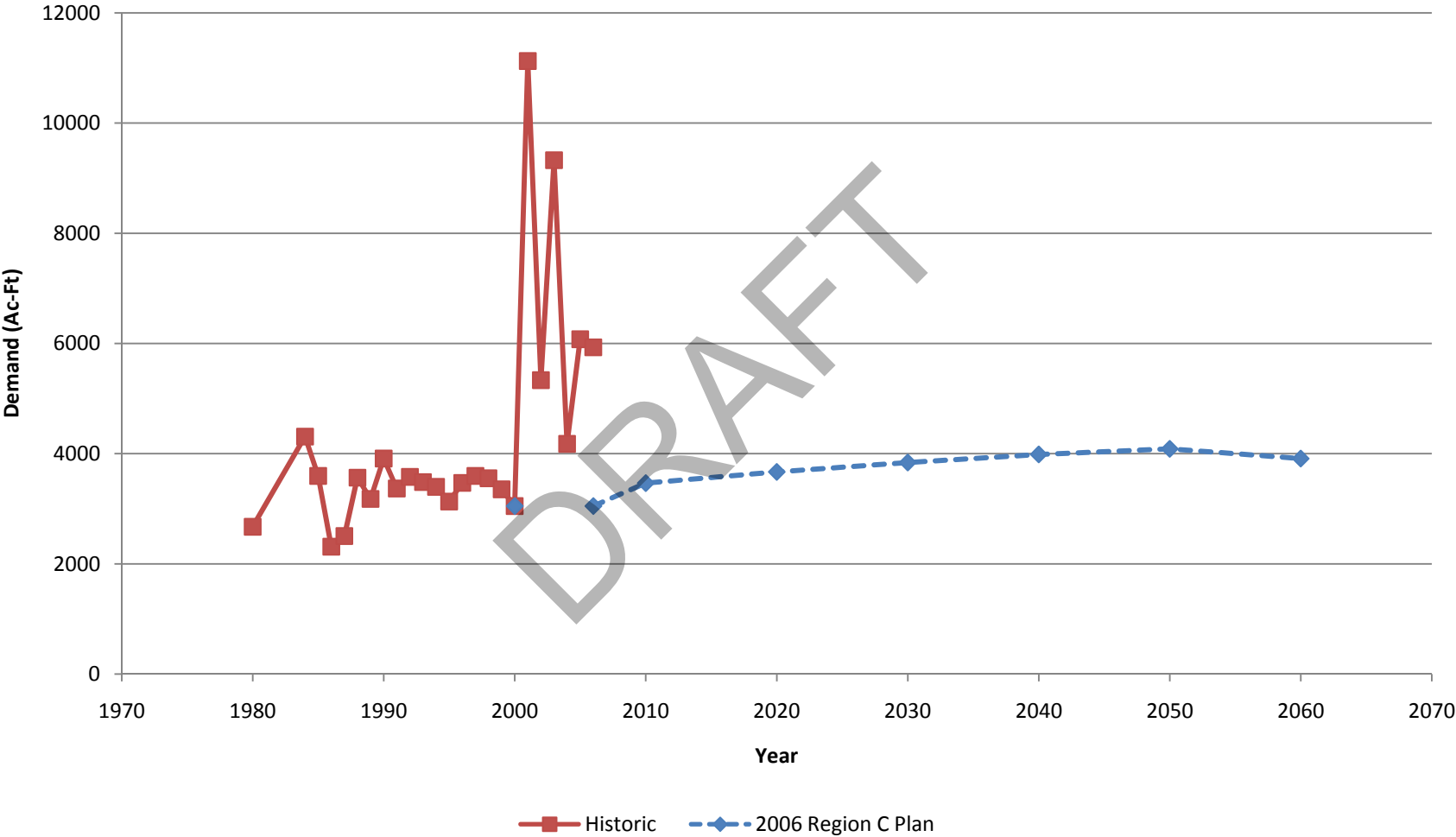
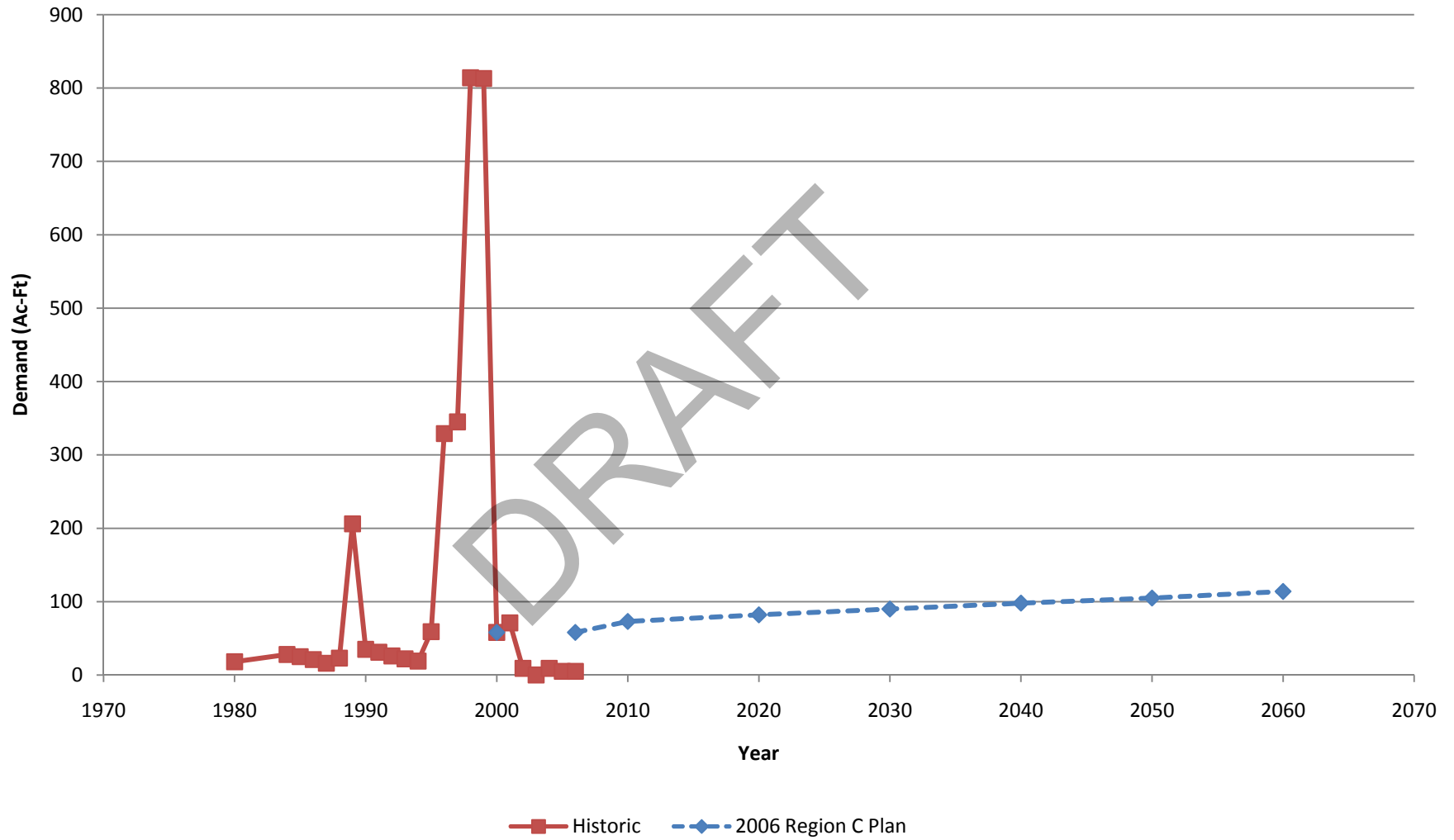




Figure 5. Ellis County Manufacturing Demands



**Figure 6. Fannin County Manufacturing Demands**



**Figure 7. Freestone County Manufacturing Demands**

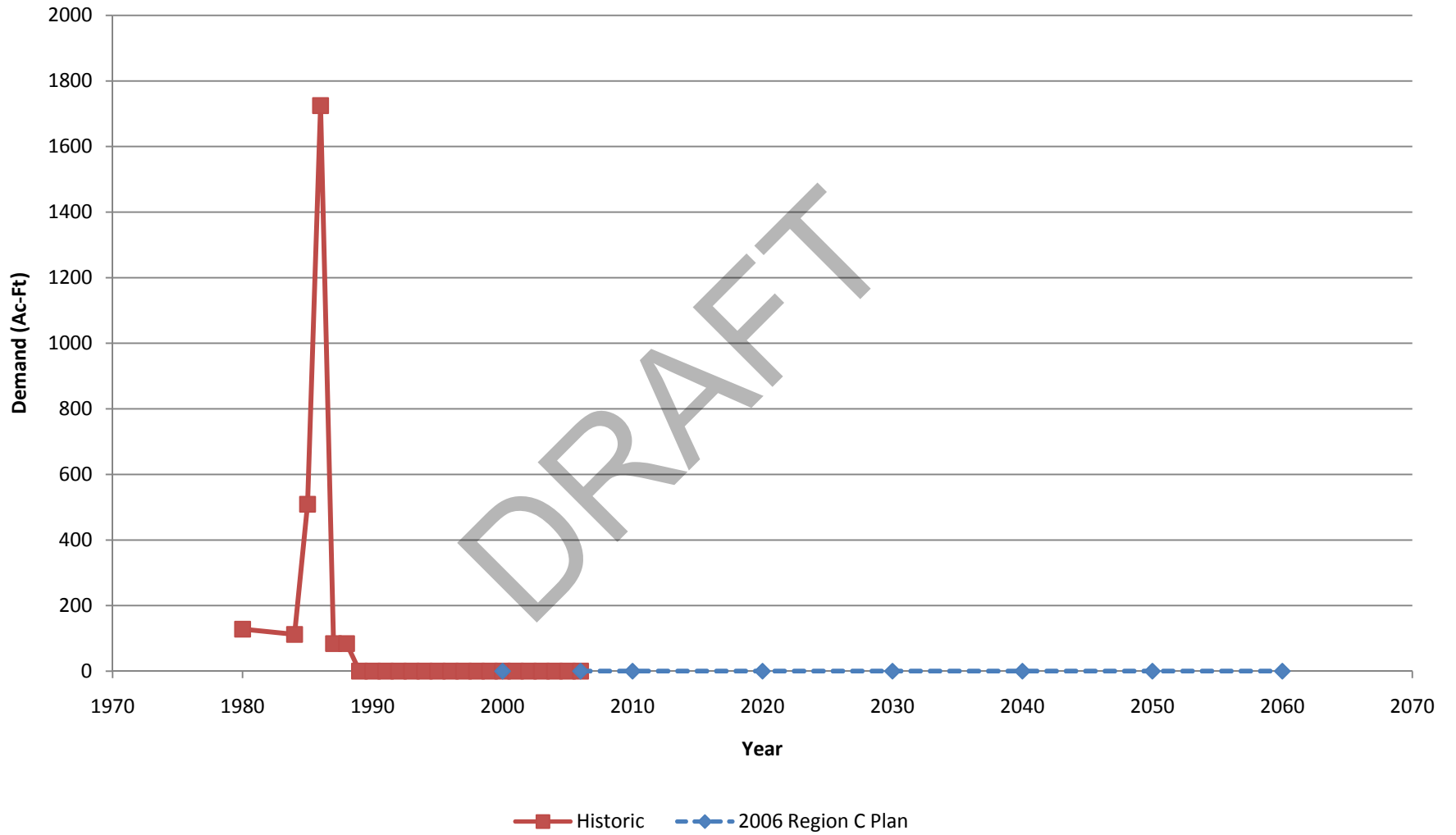
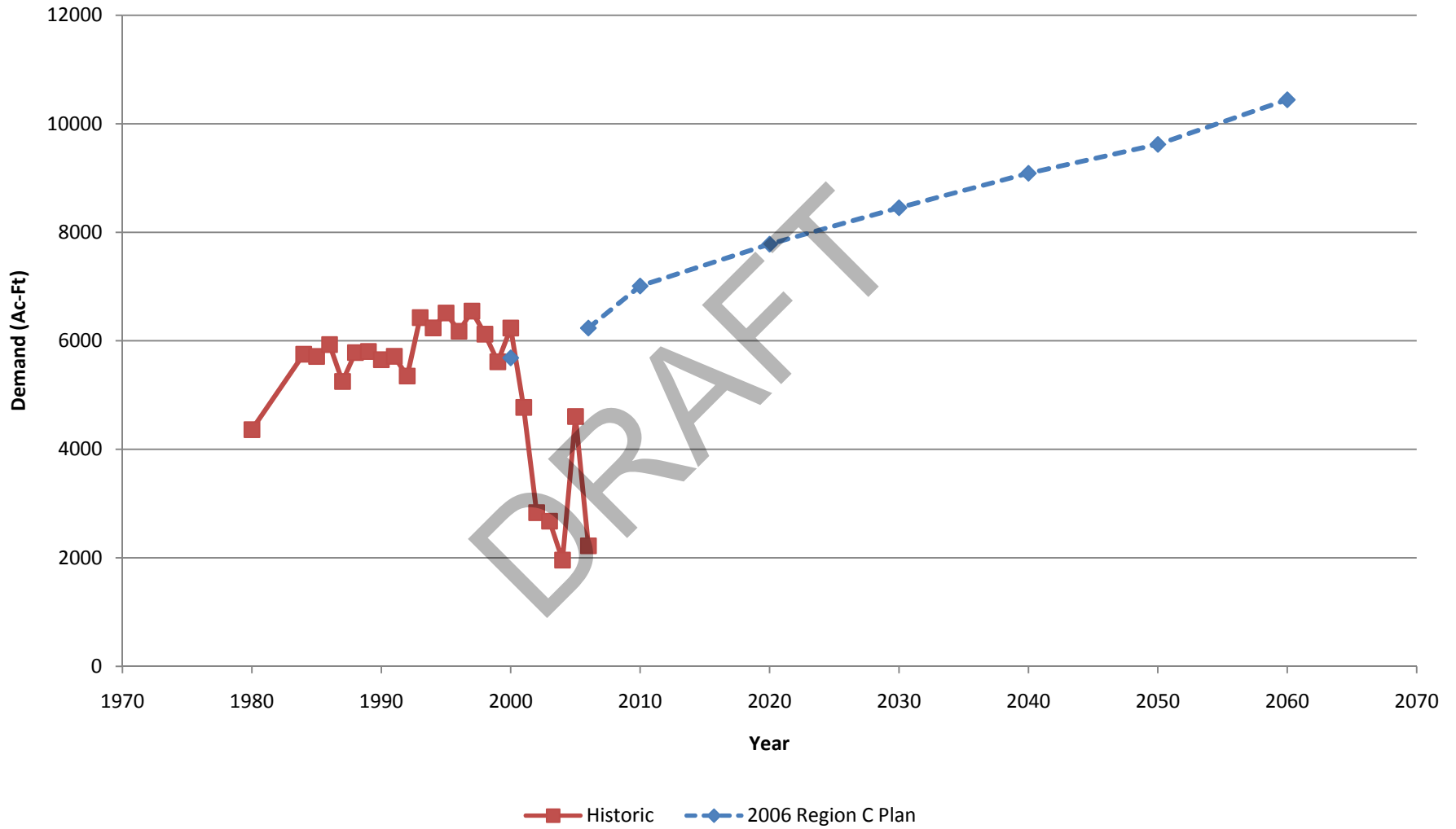
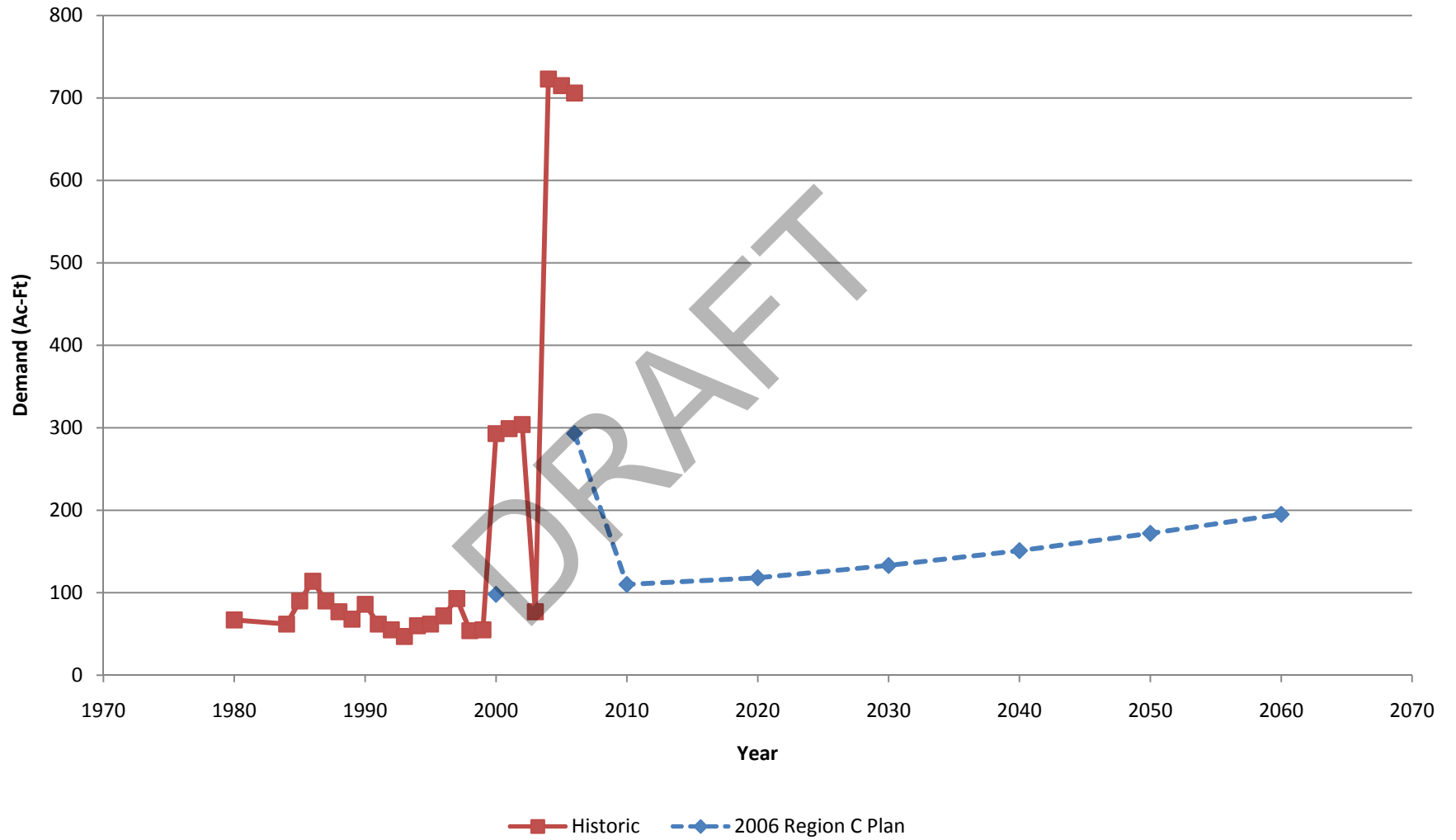


Figure 8. Grayson County Manufacturing Demands



**Figure 9. Henderson County Manufacturing Demands**



**Figure 10. Jack County Manufacturing Demands**

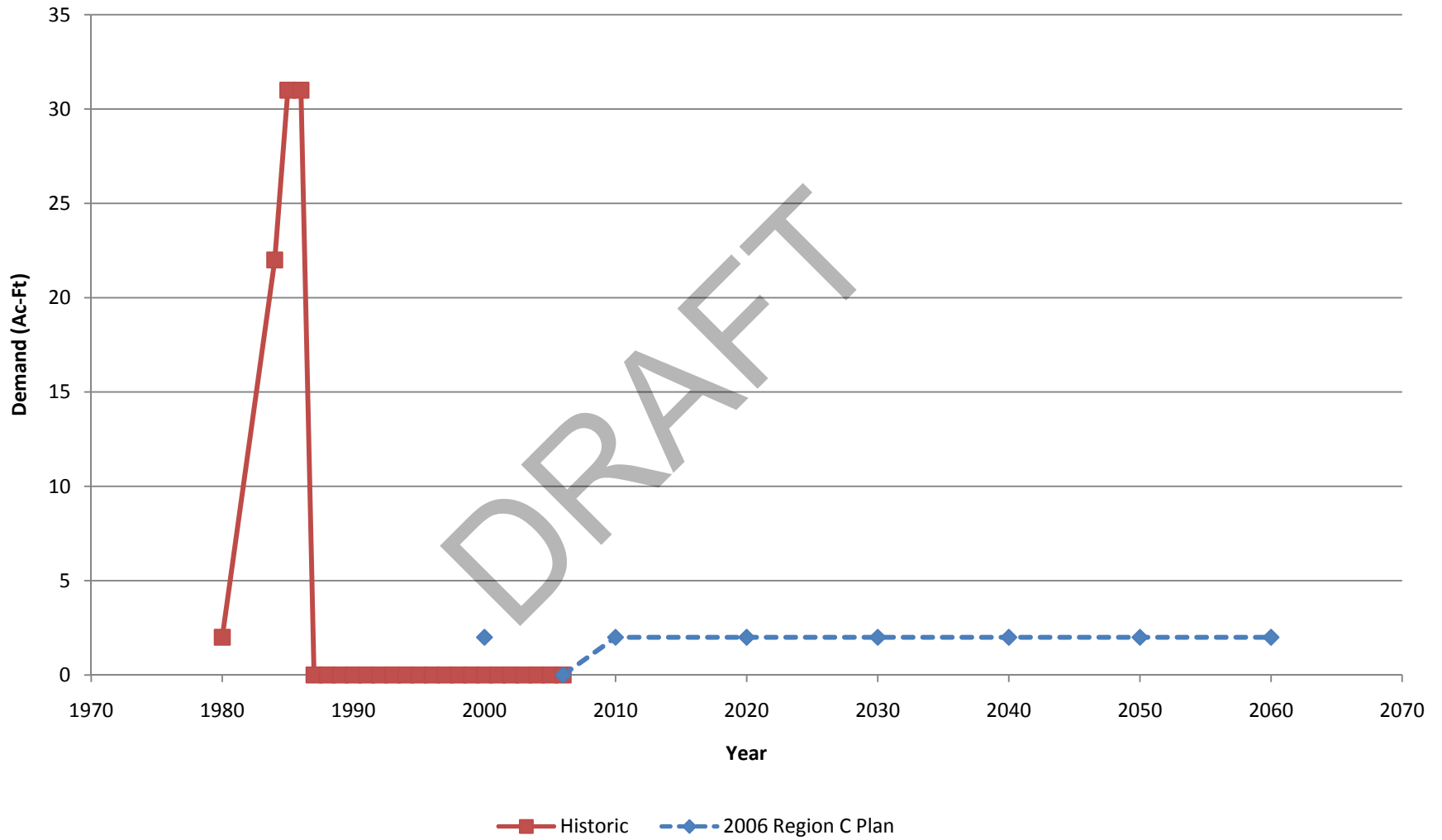
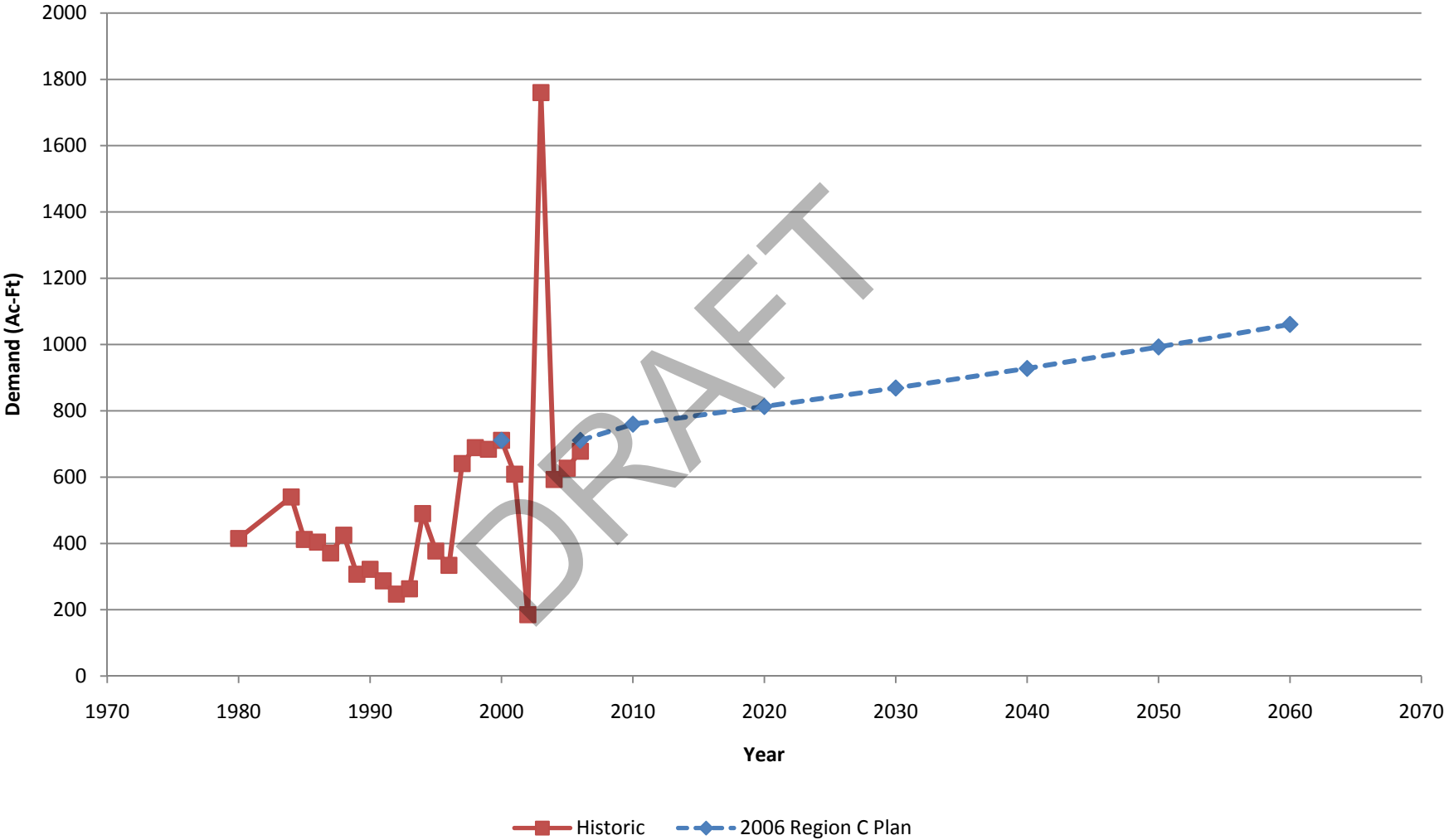


Figure 11. Kaufman County Manufacturing Demands



**Figure 12. Navarro County Manufacturing Demands**

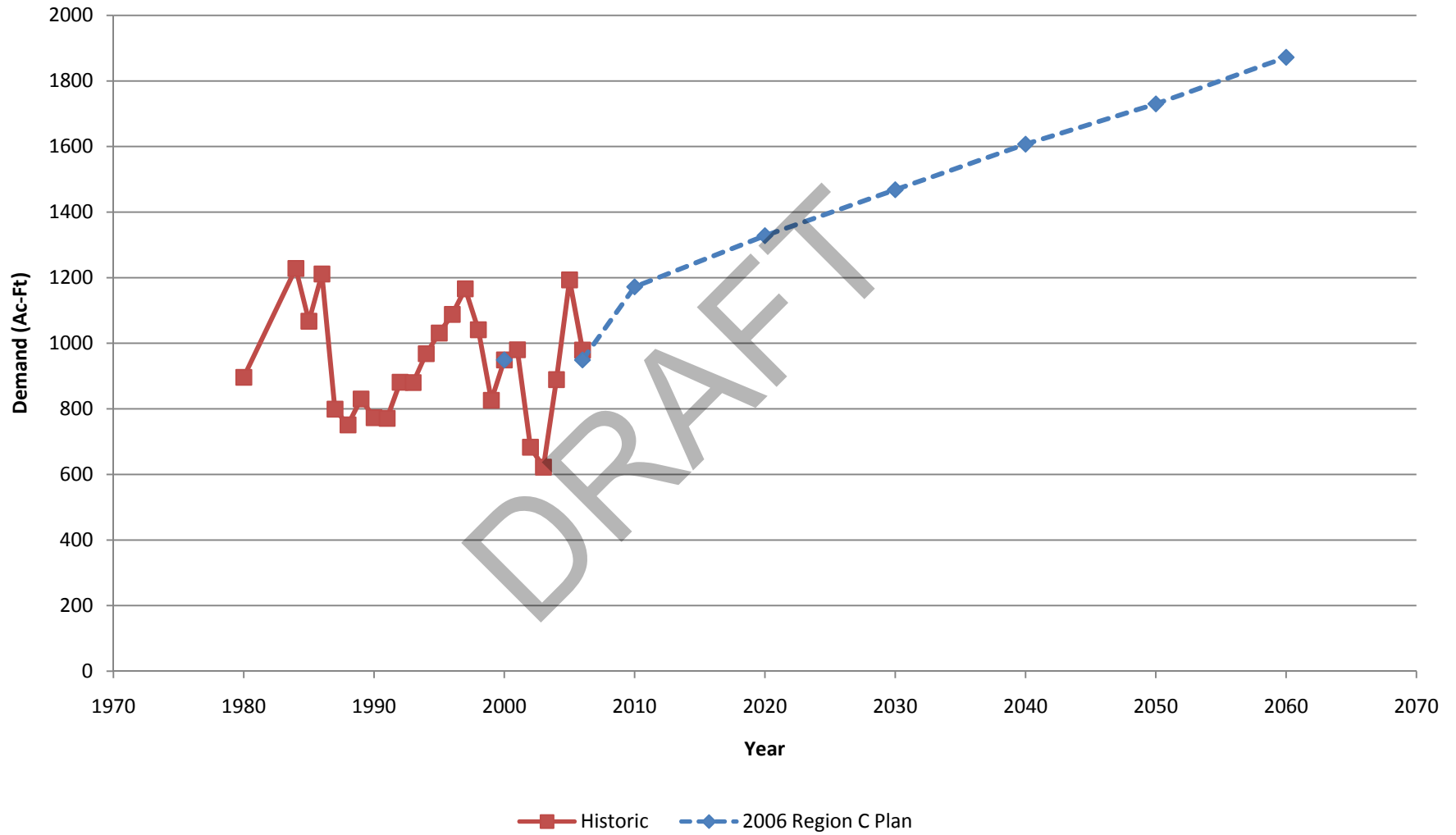
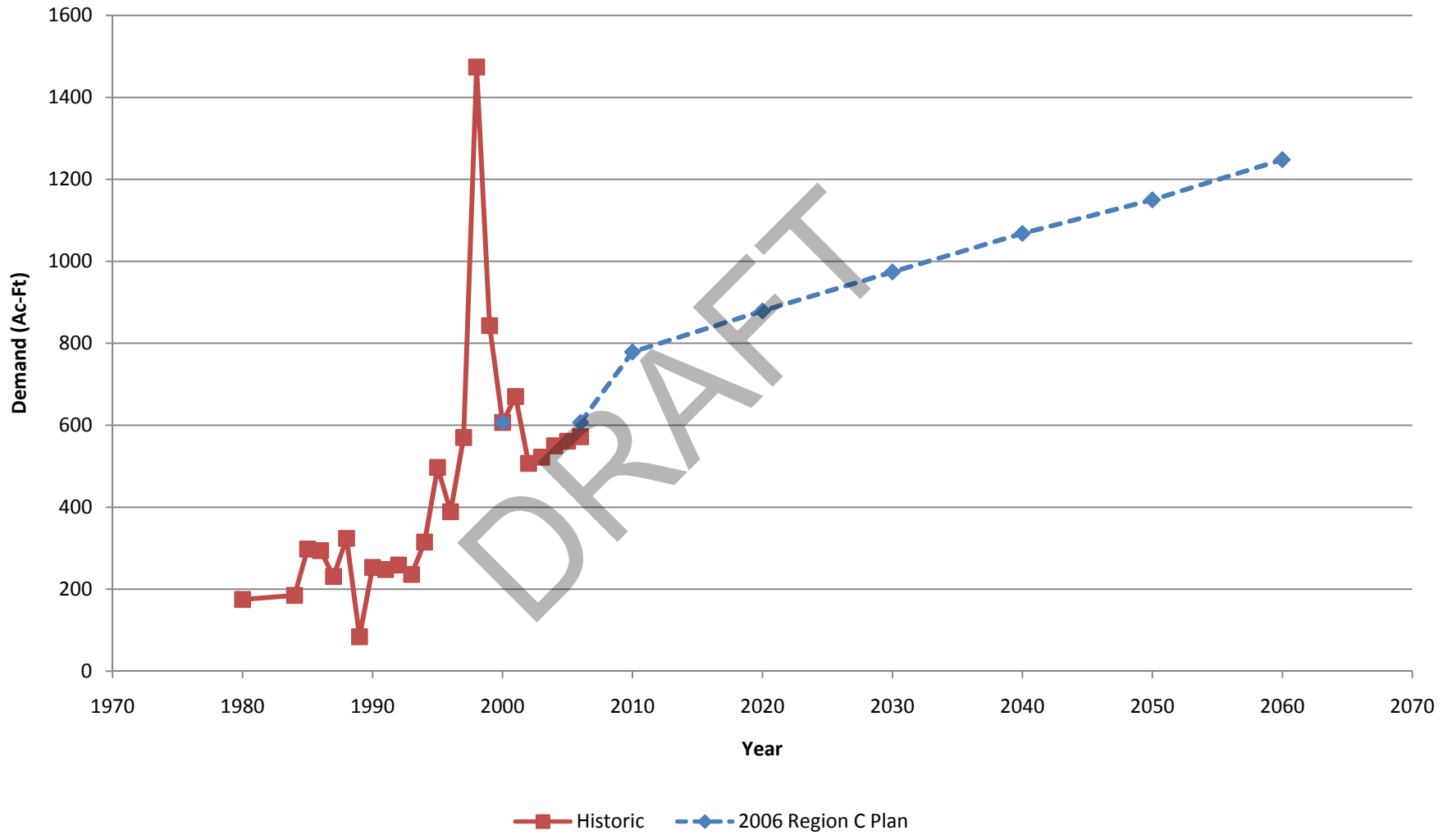
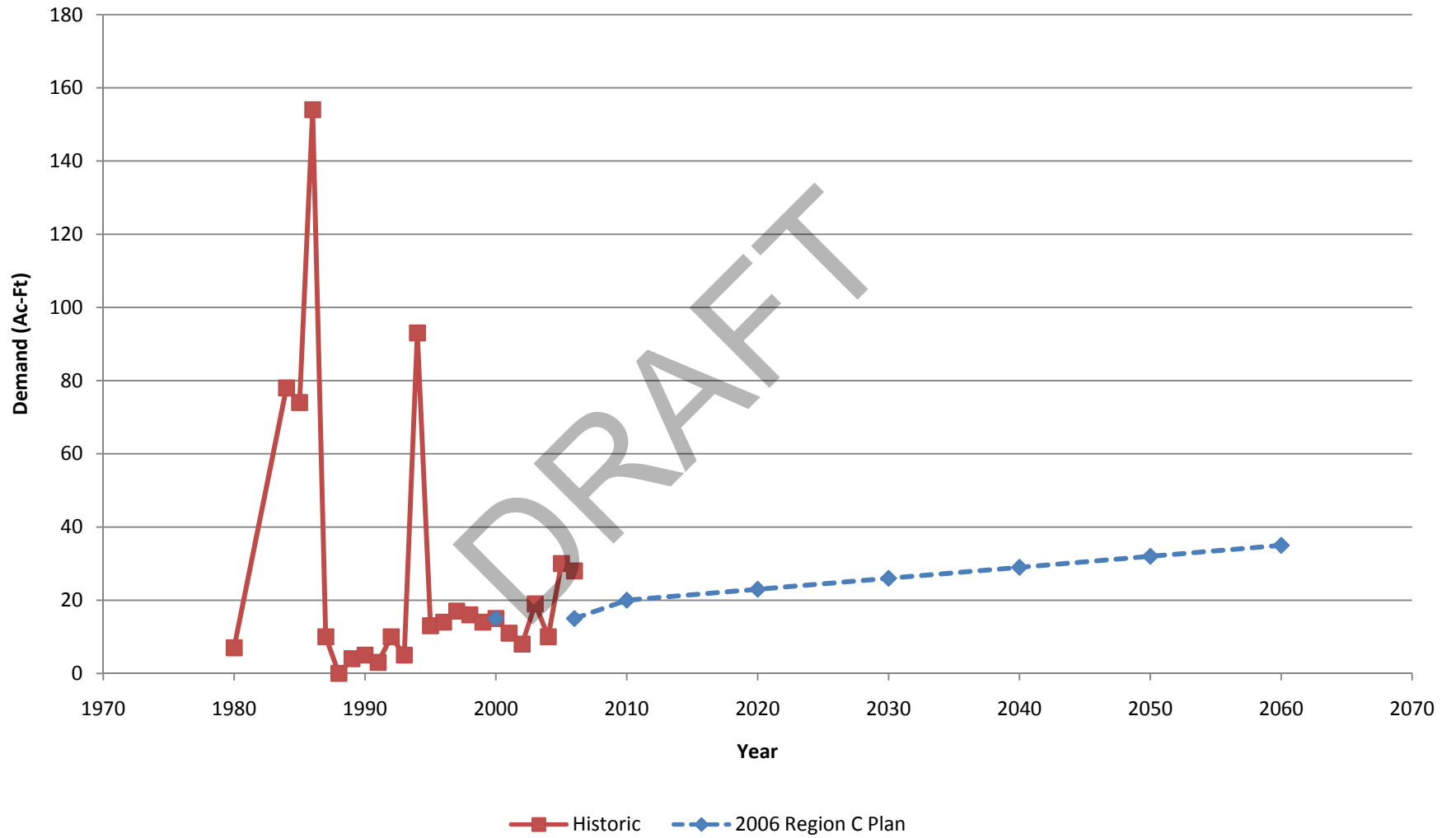




Figure 13. Parker County Manufacturing Demands



**Figure 14. Rockwall County Manufacturing Demands**



**Figure 15. Tarrant County Manufacturing Demands**

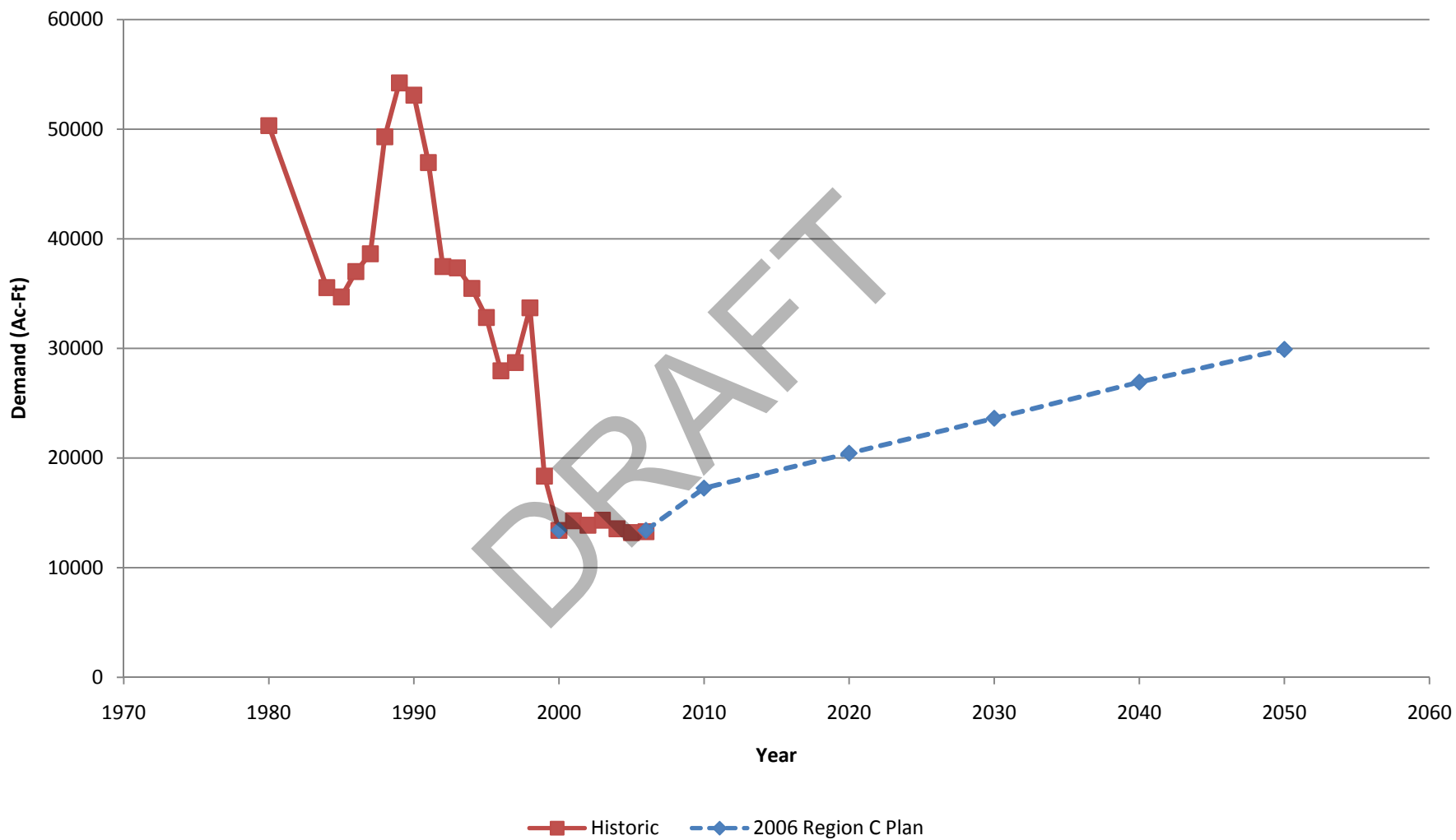


Figure 16. Wise County Manufacturing Demands

