Transportation Revenue Forecast Council March 2013 Transportation Economic and Revenue Forecasts

Volume III: Confidence Intervals

Transportation Revenue Forecast Council March 2013

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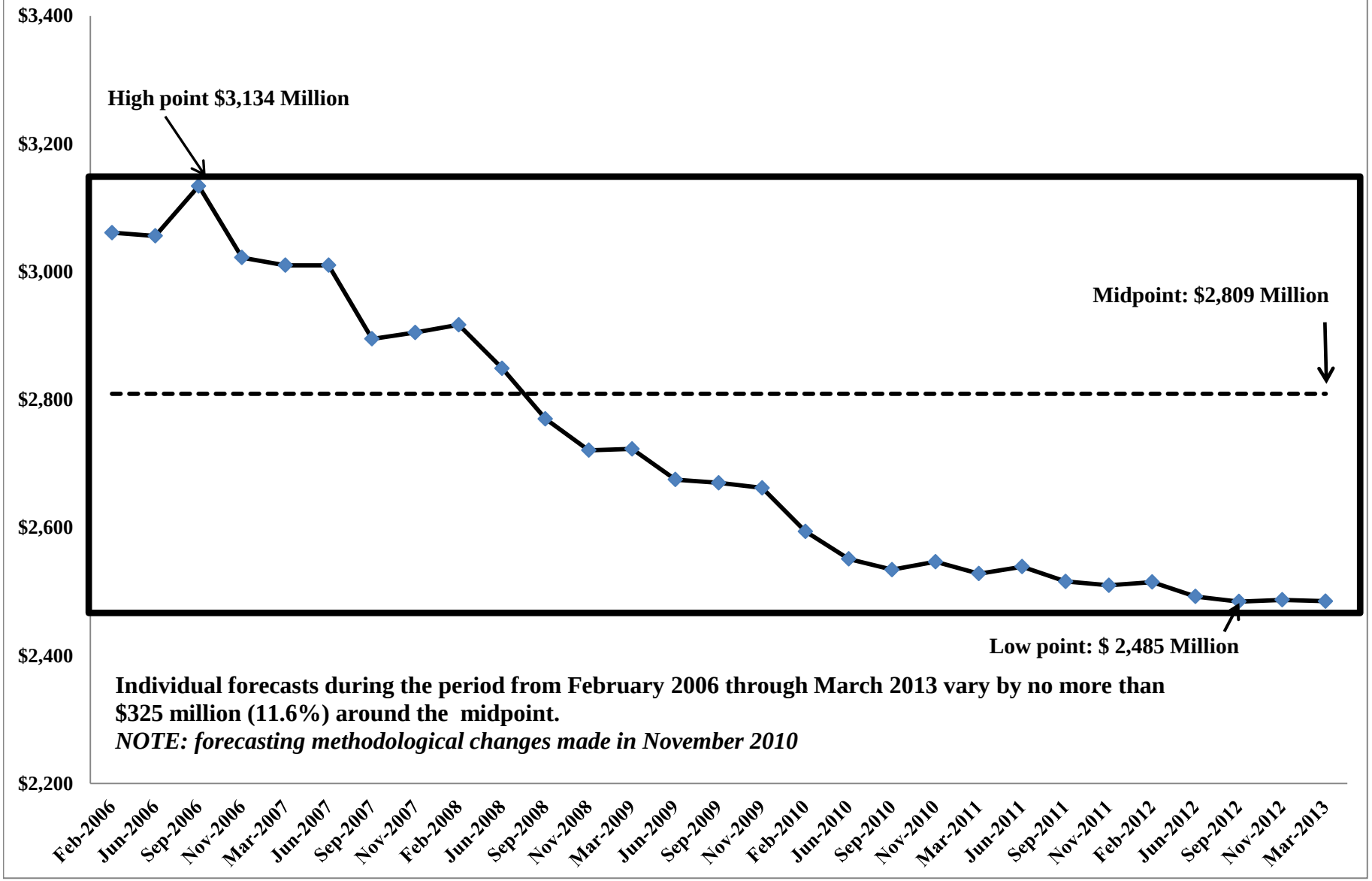
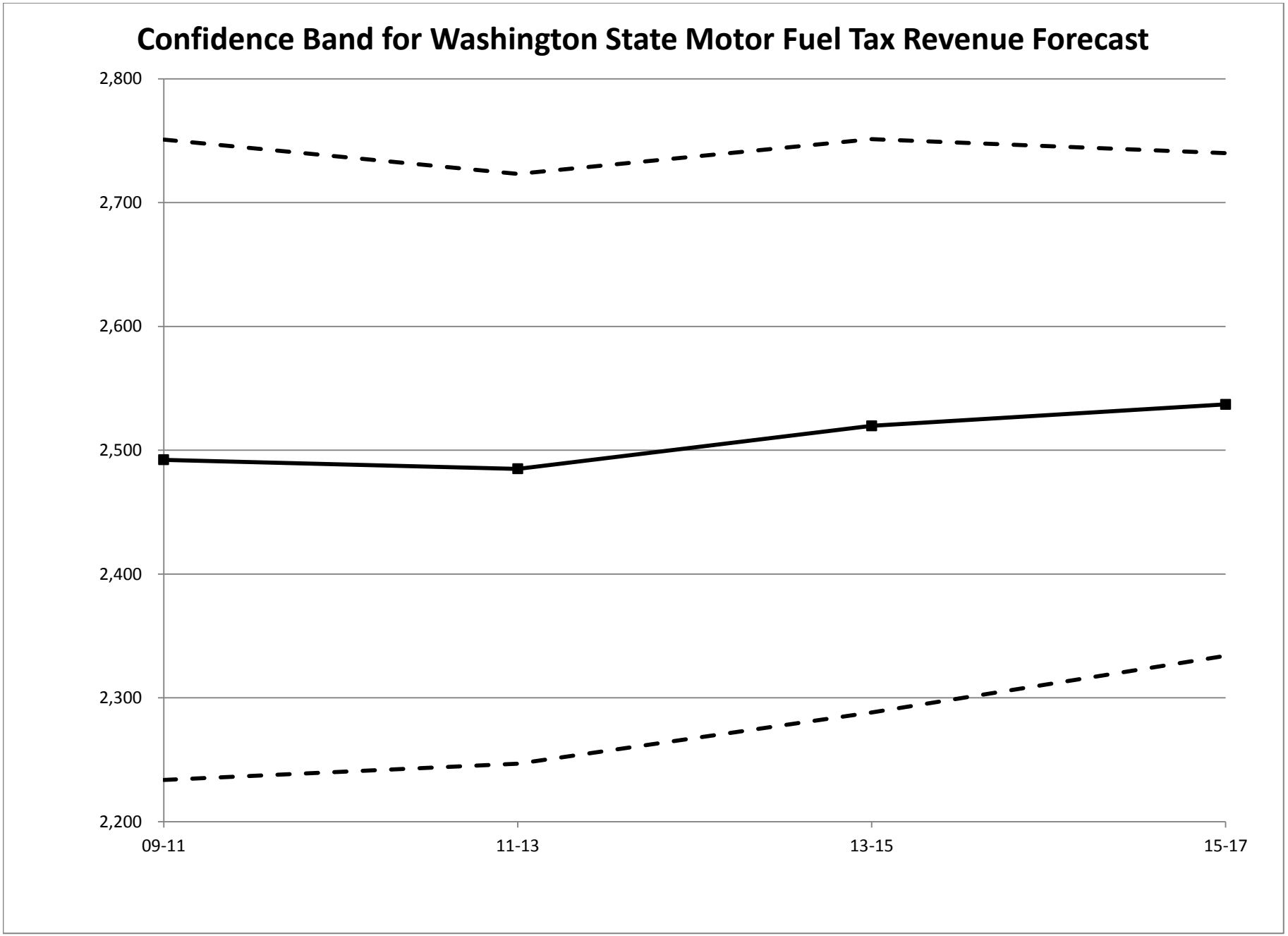
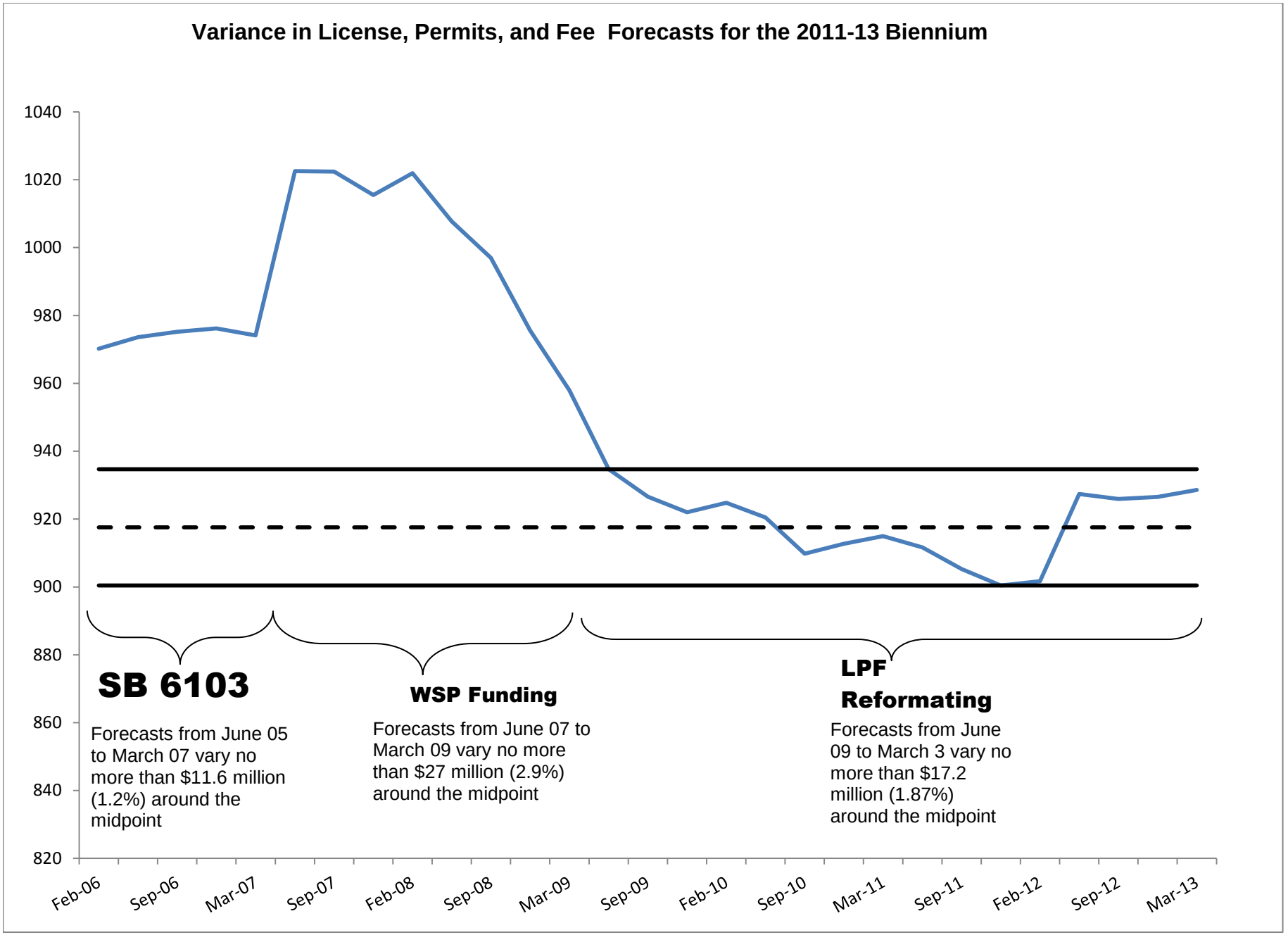
Variance in State Motor Fuel Tax Forecasts for the 2011-2013 Biennium

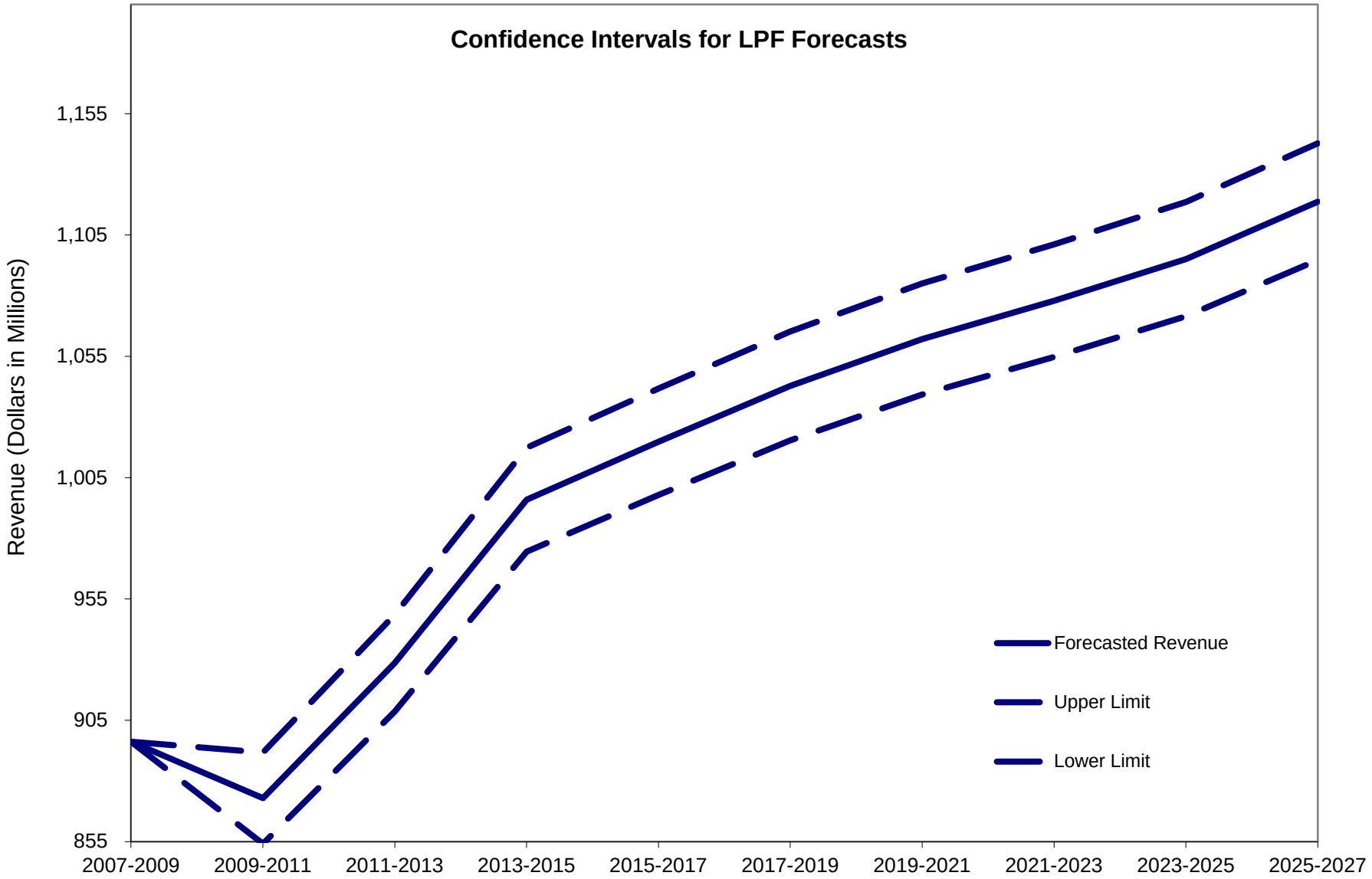


Individual forecasts during the period from February 2006 through March 2013 vary by no more than $325 million (11.6%) around the midpoint.

NOTE: forecasting methodological changes made in November 2010


Confidence Band for Washington State Motor Fuel Tax Revenue Forecast
2,800
2,700
2,600
2,500
2,400
2,300
2,200
09-11
11-13
13-15
15-17


Variance in License, Permits, and Fee Forecasts for the 2011-13 Biennium
1040
1020
1000
980
960
940
920
900
880
860
840
820
Feb-06
Sep-06
Mar-07
Sep-07
Feb-08
Sep-08
Mar-09
Sep-09
Feb-10
Sep-10
Mar-11
Sep-11
Feb-12
Sep-12
Mar-13
SB 6103
Forecasts from June 05 to March 07 vary no more than $11.6 million (1.2%) around the midpoint
WSP Funding
Forecasts from June 07 to March 09 vary no more than $27 million (2.9%) around the midpoint
LPF Reformating
Forecasts from June 09 to March 3 vary no more than $17.2 million (1.87%) around the midpoint


Confidence Intervals for LPF Forecasts
Revenue (Dollars in Millions)
1,155
1,105
1,055
1,005
955
905
855
2007-2009
2009-2011
2011-2013
2013-2015
2015-2017
2017-2019
2019-2021
2021-2023
2023-2025
2025-2027
Forecasted Revenue
Upper Limit
Lower Limit

Forecast of Fuel, Vehicles, and Related Data Through 2027
Forecast Starts in FY2013
March 2013

Fiscal Year	Gross Fuel Consumption (Millions) [1]	Total Refunds & Transfers (Millions)[2]	Highway Use Consumption (Millions)[3]	Motorized Vehicle Registrations (Thou.)[4]	Population (Thousands)	Driver Licenses (Thou.)[5]	License/ Vehicle	Net Fuel Consumption Less	
								Total Refunds & Transfers Gallons/Person[6}	Non-Highway Refunds Gallons/Person[7]
1950	626	35	591	827	2,379			248	248
1955	814	40	774	1,044	2,630			294	294
1960	975	46	929	1,260	2,853			326	326
1965	1,157	44	1,113	1,525	3,065	1,579	1.036	363	363
1966	1,234	55	1,179	1,619	3,125	1,650	1.019	377	377
1967	1,342	71	1,271	1,727	3,229	1,680	0.973	394	394
1968	1,432	41	1,391	1,834	3,329	1,788	0.975	418	418
1969	1,508	46	1,462	1,971	3,365	1,907	0.968	435	435
1970	1,600	45	1,555	1,971	3,413	1,920	0.974	455	455
1971	1,644	48	1,596	1,998	3,432	1,966	0.984	465	465
1972	1,726	49	1,677	2,078	3,432	2,008	0.966	488	488
1973	1,806	60	1,746	2,200	3,446	2,065	0.939	507	507
1974	1,790	66	1,723	2,288	3,500	2,122	0.928	492	492
1975	1,824	62	1,762	2,358	3,561	2,177	0.923	495	495
1976	1,977	67	1,910	2,483	3,627	2,289	0.922	527	527
1977	2,035	66	1,969	2,649	3,708	2,339	0.883	531	531
1978	2,170	60	2,110	2,743	3,822	2,485	0.906	552	552
1979	2,291	69	2,222	2,969	3,962	2,579	0.869	561	561
1980	2,152	65	2,087	3,092	4,110	2,663	0.861	508	508
1981	2,105	69	2,036	3,219	4,214	2,733	0.849	483	483
1982	2,078	65	2,013	3,214	4,270	2,774	0.863	471	471
1983	2,027	66	1,961	3,256	4,304	2,867	0.881	456	456
1984	2,199	62	2,136	3,328	4,349	2,973	0.893	491	491
1985	2,111	74	2,037	3,422	4,407	2,981	0.871	462	462
1986	2,377	65	2,312	3,569	4,458	3,029	0.849	519	519
1987	2,348	70	2,277	3,768	4,521	3,157	0.838	504	504
1988	2,474	82	2,392	3,876	4,607	3,198	0.825	519	519
1989	2,562	89	2,473	4,007	4,716	3,273	0.817	524	524
1990	2,648	80	2,568	4,219	4,850	3,377	0.800	529	529
1991	2,663	72	2,591	4,293	5,000	3,491	0.813	518	518
1992	2,759	78	2,681	4,448	5,126	3,597	0.809	523	523
1993	2,793	76	2,717	4,480	5,249	3,699	0.826	518	518
1994	2,880	91	2,790	4,512	5,352	3,775	0.837	521	521
1995	2,912	88	2,824	4,581	5,456	3,765	0.822	517	517
1996	2,936	83	2,853	4,587	5,555	3,908	0.852	514	514
1997	3,021	92	2,929	4,701	5,651	4,010	0.853	518	518
1998	3,124	122	3,002	4,847	5,739	4,208	0.868	523	524
1999	3,250	150	3,100	4,930	5,820	4,129	0.837	533	533
2000	3,332	192	3,140	5,195	5,887	4,155	0.800	533	534
2001	3,307	159	3,148	5,256	5,962	4,238	0.806	528	529
2002	3,317	175	3,142	5,422	6,047	4,381	0.808	520	521
2003	3,356	158	3,198	5,472	6,119	4,407	0.805	523	524
2004	3,411	144	3,266	5,645	6,199	4,505	0.798	527	529
2005	3,402	164	3,237	5,720	6,289	4,682	0.818	515	517
2006	3,441	160	3,282	5,832	6,404	4,791	0.822	512	515
2007	3,436	153	3,284	5,912	6,511	4,880	0.825	504	508
2008	3,481	228	3,253	6,161	6,597	4,954	0.804	493	497
2009	3,338	158	3,180	6,191	6,663	5,027	0.812	477	484
2010	3,296	175	3,121	5,950	6,717	5,106	0.858	465	473
2011	3,350	175	3,175	6,153	6,763	5,179	0.842	470	479
2012	3,309	236	3,073	6,104	6,812	5,228	0.856	451	462
2013	3,318	186	3,132	6,197	6,874	5,278	0.852	456	465
2014	3,344	182	3,162	6,289	6,946	5,332	0.848	455	465
2015	3,375	184	3,191	6,403	7,020	5,392	0.842	455	464
2016	3,380	186	3,194	6,522	7,096	5,452	0.836	450	460
2017	3,386	187	3,199	6,642	7,173	5,509	0.829	446	455
2018	3,389	188	3,202	6,718	7,250	5,560	0.828	442	451
2019	3,388	188	3,200	6,794	7,327	5,605	0.825	437	446
2020	3,382	188	3,194	6,867	7,405	5,650	0.823	431	440
2021	3,376	188	3,188	6,937	7,483	5,696	0.821	426	435
2022	3,372	189	3,183	7,010	7,561	5,743	0.819	421	430
2023	3,370	189	3,181	7,083	7,639	5,778	0.816	416	425
2024	3,368	189	3,179	7,157	7,717	5,812	0.812	412	421
2025	3,372	190	3,182	7,236	7,793	5,848	0.808	408	417
2026	3,377	191	3,186	7,317	7,868	5,881	0.804	405	413
2027	3,383	192	3,192	7,398	7,942	5,914	0.799	402	410

[1] Gross gallons of gasoline & special fuel.
[2] Gallons consumed in non-highway, marine, ORV, and snowmobile use subject to refunds, tribal fuel tax refunds and transfers. Does not include tax exempt alcohol.
[3] Net fuel after non-highway & tribal refunds.
[4] Privately owned passenger cars, motorhomes, motorcycles, tow trucks, trucks, busses, restored & antiques, and mopeds (1950 through 1977 reduced by 5%).
[5] Forecast assumed to grow proportionally with increase in total population.
[6] These gallons (numerator) per person are net after non-highway and refunds.
[7] Gross fuel consumption per person is based on gross fuel consumption net of non-highway refunds EXCEPT tribal refund gallons.
Gallons per person for 1998 through 2027 revised due to reformulation of calculations.