Some Simulation Results

Table 1. Results on 95% confidence intervals
under a normal mixture model

Lower and upper non-coverage rates								
p	Traditional		Exponential		Normal		Emp	
0.05	0.19	10.46	0.63	0.55	1.51	4.35	1.57	
0.10	0.58	8.65	0.87	0.55	2.08	4.14	2.21	
0.15	0.86	6.60	0.82	0.48	2.05	3.63	2.12	
0.20	1.11	5.59	0.74	0.71	2.13	3.07	2.20	
0.25	1.37	5.10	0.78	0.57	2.52	3.03	2.61	
Average lower and upper bounds								
p	Traditional		Exponential		Normal		Emp	
0.05	0.023	0.579	0.092	1.060	0.100	0.693	0.107	
0.10	0.192	0.968	0.248	1.386	0.275	1.073	0.280	
0.15	0.398	1.337	0.436	1.743	0.479	1.433	0.484	
0.20	0.628	1.697	0.646	2.105	0.705	1.785	0.710	
0.25	0.870	2.042	0.868	2.455	0.943	2.121	0.948	

Table 2. Results on 95% confidence intervals
under exponential mixture model

	Lower and upper non-coverage rates							
p	Traditional		Exponential		Normal		Em	
0.05	0.09	17.62	1.69	3.42	1.07	10.32	1.88	
0.10	0.23	12.64	1.79	3.02	1.29	7.40	2.02	
0.15	0.47	10.99	2.05	3.32	1.29	6.80	2.16	
0.20	0.51	9.09	2.04	3.04	1.35	5.67	2.21	
0.25	0.63	8.49	1.92	3.11	1.32	5.61	2.00	
	Average lower and upper bounds							
p	Traditional		Exponential		Normal		Em	
0.05	-0.020	0.526	0.079	0.909	0.053	0.665	0.081	
0.10	0.103	0.893	0.213	1.188	0.177	1.121	0.215	
0.15	0.257	1.230	0.374	1.493	0.335	1.349	0.376	
0.20	0.430	1.552	0.551	1.797	0.508	1.664	0.553	
0.25	0.618	1.864	0.739	2.095	0.694	1.968	0.741	

Table 3. Results on 95% confidence intervals
under Gamma mixture model

	Lower and upper non-coverage rates						
p	Traditional		Exponential		Normal		Emp
0.05	0.40	9.92	0.83	0.79	1.94	4.27	1.95
0.10	0.77	7.86	0.98	0.58	2.25	3.23	2.26
0.15	0.99	7.41	0.91	0.38	2.09	4.17	2.26
0.20	0.84	6.27	0.68	0.48	2.10	3.80	2.25
0.25	1.32	5.48	0.91	0.53	2.35	3.49	2.55
	Lower and upper bounds						
p	Traditional		Exponential		Normal		Emp
0.05	0.021	0.496	0.079	0.913	0.087	0.593	0.093
0.10	0.166	0.827	0.214	1.195	0.236	0.926	0.239
0.15	0.072	0.876	0.376	1.500	0.414	1.230	0.420
0.20	0.598	1.401	0.556	1.809	0.608	1.531	0.614
0.25	0.749	1.753	0.745	2.108	0.810	1.820	0.818

Table 4. Results on 95% confidence intervals
based on the Canadian Labor Force Survey-200

p	Traditional		Exponential		Normal	
Lower and upper non-coverage rates						
0.21	0.70	7.25	1.30	1.21	1.63	4.56
Average lower and upper bounds						
0.21	9.824	28.996	10.958	34.577	11.189	30.691

Table 5. Results on 95% EL and Godambe and Thompson confidence int
under the stratified random sampling

p_1, p_2: proportion of zero values in strata 1 and 2;
p_l, p_u: lower and upper non-coverage rates;
C_l, C_u: lower and upper confidence bounds.

p_1	p_2	Empirical likelihood interval					Godambe and T		
		p_l	p_u	C_l	C_u	length	p_l	p_u	
						Normal, Normal			
0.05	0.05	1.81	3.16	0.185	0.703	0.518	0.53	6.89	0.1
0.10	0.05	2.33	3.39	0.241	0.797	0.556	0.68	6.77	0.1
0.15	0.05	2.43	2.92	0.308	0.900	0.592	0.98	6.84	0.2
0.10	0.10	2.34	3.15	0.439	1.143	0.704	1.02	6.17	0.3
0.15	0.10	3.24	3.24	0.511	1.241	0.730	1.08	5.69	0.4
						Exponential, Exponential			
0.05	0.05	1.66	6.81	0.145	0.712	0.567	0.28	12.30	0.0
0.10	0.05	2.24	5.97	0.191	0.824	0.633	0.34	10.92	0.1
0.15	0.05	1.96	6.25	0.245	0.937	0.692	0.29	10.44	0.1
0.10	0.10	2.31	5.70	0.353	1.162	0.809	0.58	9.43	0.2
0.15	0.10	3.02	5.36	0.415	1.276	0.861	0.57	8.32	0.3
						Exponential, Normal			
0.05	0.05	2.04	5.15	0.159	0.717	0.558	0.18	10.13	0.0
0.10	0.05	2.16	4.70	0.212	0.804	0.592	0.36	9.39	0.1
0.15	0.05	2.53	4.86	0.279	0.909	0.630	0.59	8.62	0.2
0.10	0.10	2.50	4.52	0.375	1.147	0.772	0.54	8.33	0.2
0.15	0.10	3.23	4.29	0.450	1.249	0.799	0.58	7.83	0.3