A zero-truncated one-inflated model with application to population monitoring: Simulations data

Herman Persson

May 2022

ZTOIP simulations

Type	p	N	λ	n	$ar{N}$	90% CI	99% CI	RMSE
ZOTP	0.00	500	1	1000	526.278	[365, 741]	[332, 889]	120.575
ZOTP	0.00	500	2	1000	500.017	[450, 552]	[430, 583]	30.974
ZOTP	0.00	500	3	1000	500.221	[477, 525]	[464, 533]	14.580
ZOTP	0.00	1500	1	1000	1519.772	[1256, 1832]	[1167, 1995]	179.181
ZOTP	0.00	1500	2	1000	1500.083	[1413, 1589]	[1385, 1627]	53.349
ZOTP	0.00	1500	3	1000	1498.596	[1459, 1542]	[1447, 1556]	24.911
ZOTP	0.00	2500	1	1000	2523.088	[2177, 2920]	[2045, 3145]	229.767
ZOTP	0.00	2500	2	1000	2502.101	[2391, 2619]	[2346, 2655]	68.430
ZOTP	0.00	2500	3	1000	2501.070	[2446, 2558]	[2427, 2583]	33.321
ZOTP	0.05	500	1	1000	521.818	[367, 731]	[328, 918]	119.399
ZOTP	0.05	500	2	1000	502.104	[446, 563]	[420, 584]	34.866
ZOTP	0.05	500	3	1000	500.897	[475, 527]	[463, 538]	15.898
ZOTP	0.05	1500	1	1000	1515.885	[1243, 1844]	[1170, 2034]	182.159
ZOTP	0.05	1500	2	1000	1503.029	[1412, 1602]	[1376, 1652]	59.144
ZOTP	0.05	1500	3	1000	1500.509	[1454, 1546]	[1433, 1565]	27.857
ZOTP	0.05	2500	1	1000	2522.989	[2151, 2959]	[2047, 3193]	244.000
ZOTP	0.05	2500	2	1000	2504.523	[2381, 2624]	[2329, 2679]	74.911
ZOTP	0.05	2500	3	1000	2500.621	[2441, 2560]	[2420, 2585]	35.426
ZOTP	0.10	500	1	1000	530.537	[360, 796]	[306, 939]	140.373
ZOTP	0.10	500	2	1000	502.741	[445, 568]	[418, 595]	37.777
ZOTP	0.10	500	3	1000	501.118	[472, 531]	[460, 547]	18.126
ZOTP	0.10	1500	1	1000	1526.197	[1221, 1884]	[1129, 2079]	210.708
ZOTP	0.10	1500	2	1000	1504.806	[1404, 1615]	[1365, 1660]	65.448
ZOTP	0.10	1500	3	1000	1501.047	[1450, 1551]	[1432, 1571]	30.589
ZOTP	0.10	2500	1	1000	2508.095	[2120, 2961]	[2022, 3191]	255.805
ZOTP	0.10	2500	2	1000	2497.087	[2361, 2630]	[2305, 2681]	82.192
ZOTP	0.10	2500	3	1000	2500.815	[2435, 2569]	[2403, 2602]	41.253
ZTOIP	0.00	500	1	1000	479.072	[365, 555]	[332, 580]	60.871
ZTOIP	0.00	500	2	1000	493.238	[450, 526]	[430, 538]	24.100
ZTOIP	0.00	500	3	1000	497.975	[477, 516]	[464, 522]	12.266
ZTOIP	0.00	1500	1	1000	1457.163	[1256, 1596]	[1167, 1635]	112.389
ZTOIP	0.00	1500	2	1000	1487.978	[1413, 1545]	[1385, 1561]	41.819
ZTOIP	0.00	1500	3	1000	1495.173	[1459, 1528]	[1447, 1537]	21.443
ZTOIP	0.00	2500	1	1000	2441.899	[2177, 2618]	[2045, 2682]	147.332
ZTOIP	0.00	2500	2	1000	2486.019	[2391, 2557]	[2346, 2577]	52.870

TOTIP 0.00 2500 3 1000 2495.999 2446, 2538 2427, 2556 27.774	Type	p	N	λ	n	$ar{N}$	90% CI	99% CI	RMSE
ZTOIP	ZTOIP	0.00	2500	3	1000	2495.929	[2446, 2538]	[2427, 2556]	27.774
ZTOIP 0.05 5500 3 1000 500.896 475, 527 433, 538 15.904 ZTOIP 0.05 1500 1 1000 1501.033	ZTOIP	0.05	500	1	1000	498.453	[367, 618]	[328, 655]	77.306
ZTOIP 0.05 1500 1 1000 1501.033 1243, 1743 11170, 1812 153.884 ZTOIP 0.05 1500 2 1000 1500.331 1412, 1602 11375, 1652 59.104 STOIP 0.05 2500 3 1000 2500.530 2151, 2868 2047, 2962 217.914 ZTOIP 0.05 2500 2 1000 2504.518 2381, 2624 2329, 2679 74.912 ZTOIP 0.10 500 3 1000 2504.656 2441, 2560 2420, 2585 35.272 ZTOIP 0.10 500 1 1000 513.547 360, 679 306, 724 102.668 ZTOIP 0.10 500 2 1000 502.740 445, 568 418, 595 37.779 TOIP 0.10 500 3 1000 502.740 445, 568 418, 595 37.779 TOIP 0.10 1500 1 1000 1522.386 1221, 1871 1129, 2010 199.845 ZTOIP 0.10 1500 2 1000 1504.797 1404, 1615 1365, 1660 65.443 TOIP 0.10 2500 3 1000 2506.286 2120, 2961 2022, 3158 249.652 ZTOIP 0.10 2500 3 1000 2506.286 2120, 2961 2022, 3158 249.652 ZTOIP 0.10 2500 3 1000 2500.886 2435, 2569 2403, 2602 41.253 ZTOIP 0.10 2500 3 1000 501.466 462, 544 442, 566 25.740 447.572 447.5725 4	ZTOIP	0.05	500	2	1000	502.008	[446, 563]	[420, 584]	34.643
ZTOIP 0.05 1500 2 1000 1503.013 1412, 1602 1375, 1652 59.104 ZTOIP 0.05 1500 3 1000 1500.533 1454, 1546 [1433, 1565 27.869 ZTOIP 0.05 2500 2 1000 2510.530 2151, 2868 [2047, 2962 217.914 ZTOIP 0.05 2500 3 1000 2500.636 2441, 2560 2420, 2585 35.427 ZTOIP 0.10 500 1 1000 513.547 360, 679 306, 724 102.686 ZTOIP 0.10 500 2 1000 502.740 [445, 568] [418, 595] 37.779 ZTOIP 0.10 500 3 1000 501.116 [472, 531] [460, 547] 18.126 ZTOIP 0.10 1500 2 1000 1501.38 [1451, 1551] [1129, 2010] 199.845 ZTOIP 0.10 1500 2 1000 1501.38 [1450, 1551] [1432, 1571] 30.586 ZTOIP 0.10 1500 3 1000 1501.38 [1450, 1551] [1432, 1571] 30.586 ZTOIP 0.10 2500 2 1000 2497.065 2361, 2630 2305, 2681] 82.188 ZTOIP 0.10 2500 2 1000 2497.065 2361, 2630 2305, 2681] 82.188 ZTOIP 0.10 2500 2 1000 2497.065 2361, 2630 2305, 2681] 82.188 ZTOIP 0.10 2500 2 1000 500.655 482, 519 [475, 525] 10.984 ZTP 0.00 500 2 1000 500.655 482, 519 [475, 525] 10.984 ZTP 0.00 500 2 1000 500.655 482, 519 [475, 525] 10.984 ZTP 0.00 500 2 1000 500.655 482, 519 [475, 525] 10.984 ZTP 0.00 500 2 1000 500.655 482, 519 [475, 525] 10.984 ZTP 0.00 2500 2 1000 500.501 [487, 152] [404, 1612] 46.741 ZTP 0.00 2500 2 1000 2500.047 2478, 2521 2470, 2527 12.956 ZTP 0.05 500 1 1000 2500.047 2478, 2521 2470, 2527 12.956 ZTP 0.05 500 1 1000 507.476 [513, 630] [496, 659] 76.005 ZTP 0.05 500 2 1000 593.732 572, 614 [668, 1799] 233.895 ZTP 0.05 500 2 1000 593.732 572, 614 [668, 1799] 235.895 ZTP 0.05 500 2 1000 666, 115 [627, 704] [612, 721] 1678, 824 ZTP 0.05 500 3 1000 2888.895 2825, 2950 2801, 2979 390.703 ZTP 0.05 500 3 1000 6	ZTOIP	0.05	500	3	1000	500.896	[475, 527]	[463, 538]	15.904
ZTOIP 0.05 1500 3 1000 1500.533 1454, 1546 1433, 1565 27.869 ZTOIP 0.05 2500 1 1000 2504.518 2381, 2624 2329, 2679 74.912 ZTOIP 0.05 2500 3 1000 2504.518 2381, 2624 2329, 2679 74.912 ZTOIP 0.05 2500 3 1000 2500.656 2441, 2560 2420, 2585 35.427 ZTOIP 0.10 500 1 1000 513.547 360, 679 306, 724 102.668 27.019 0.10 500 2 1000 502.740 445, 568 418, 595 37.779 ZTOIP 0.10 500 3 1000 501.116 472, 531 460, 547 18.126 ZTOIP 0.10 1500 1 1000 1522.386 1221, 1871 1129, 2010 199.845 ZTOIP 0.10 1500 2 1000 1504.797 1404, 1615 1365, 1660 65.443 ZTOIP 0.10 1500 3 1000 1501.038 1450, 1551 1432, 1571 30.586 ZTOIP 0.10 2500 2 1000 2506.866 2120, 2961 2022, 3158 249.652 ZTOIP 0.10 2500 3 1000 2506.807 2435, 2569 2403, 2602 41.253 ZTOIP 0.10 2500 3 1000 500.655 482, 519 442, 566 25.740 ZTOIP 0.00 500 3 1000 500.655 482, 519 487, 512 5.397 ZTP 0.00 500 3 1000 500.628 491, 509 487, 512 5.397 ZTP 0.00 1500 3 1000 1500.519 1468, 1531 1454, 1540 18.944 27P 0.00 1500 3 1000 1500.519 1468, 1531 1454, 1540 18.944 27P 0.00 2500 3 1000 2500.028 491, 509 487, 512 5.397 27P 0.00 2500 3 1000 2500.028 494, 604 2372, 2634 59.249 27P 0.00 2500 3 1000 2500.025 2404, 2604 2372, 2634 59.249 27P 0.05 500 2 1000 500.028 494, 604 2372, 2634 59.249 27P 0.05 500 2 1000 578.105 550, 604 544, 545 544, 545 59.50 2444, 2555 23.489 27P 0.05 500 2 1000 500.027 2478, 2521 2470, 2527 12.956 2527 12.956 2527 12.956 2527 12.956 2527 12.956 2527 12.956 2527 12.956 2527 12.956 2527 12.956 2527 12.956 2527 12.956 2527 12.956 2527 12.956 2527 12.956 2527 12.956 2527 12.956 2528.349 2528.349 252	ZTOIP	0.05	1500	1	1000	1501.033	[1243, 1743]	[1170, 1812]	
ZTOIP 0.05 2500 1 1000 2510.530 2151, 2868 2047, 2962 217.914 ZTOIP 0.05 2500 2 1000 2504.518 2381, 2624 2329, 2679 74.912 ZTOIP 0.10 500 1 1000 513.547 360, 679 2420, 2585 35.7779 ZTOIP 0.10 500 2 1000 502.740 [445, 568] [418, 595] 37.779 ZTOIP 0.10 1500 3 1000 1501.116 [472, 531] [460, 547] 18.126 ZTOIP 0.10 1500 3 1000 1504.797 [1404, 1615] [1365, 1660] 65.443 ZTOIP 0.10 1500 3 1000 1501.038 [1450, 1551] [1432, 1571] 30.586 ZTOIP 0.10 2500 3 1000 2506.286 [2120, 2961] 2022, 3158 249.652 ZTOIP 0.10 2500 3 1000 500.655 [2482, 519]						1503.013	[1412, 1602]		
ZTOIP 0.05 2500 2 1000 2504.518 [2381, 2624] [2329, 2679] 74.912 ZTOIP 0.10 500 1 1000 2500.656 [2441, 2560] [2420, 2585] 35.427 ZTOIP 0.10 500 2 1000 502.740 [485, 568] [418, 595] 37.779 ZTOIP 0.10 500 3 1000 501.116 [472, 531] [460, 547] 18.126 ZTOIP 0.10 1500 1 1000 1522.386 [1221, 1871] [1129, 2010] 199.845 ZTOIP 0.10 1500 2 1000 1504.787 [1404, 1615] [1365, 1660] 65.433 ZTOIP 0.10 2500 3 1000 2506.286 [2120, 2961] [2022, 3158] 249.652 ZTOIP 0.10 2500 3 1000 2506.286 [2120, 2961] [2022, 3158] 249.652 ZTOIP 0.10 2500 3 1000 2501.466 [46									
ZTOIP 0.05 2500 3 1000 2500.656 [2441, 2560] [2420, 2585] 35.427 ZTOIP 0.10 500 1 1000 513.547 360, 679] 306, 724 102.668 ZTOIP 0.10 500 2 1000 502.740 [445, 568] [418, 595] 37.779 ZTOIP 0.10 1500 3 1000 502.740 [447, 531] [460, 547] 18.126 ZTOIP 0.10 1500 2 1000 1504.797 [1404, 1615] [1365, 1660] 65.443 ZTOIP 0.10 2500 1 1000 2506.286 [120, 2961] [2022, 3158] 249.652 ZTOIP 0.10 2500 2 1000 2506.807 [2435, 2569] [2403, 2602] 412.53 ZTOIP 0.10 2500 3 1000 2506.686 [2120, 2961] [2922, 3158] 249.652 ZTOIP 0.10 2500 3 1000 2506.686 [2120, 2961									
ZTOIP 0.10 500 1 1000 513.547 [360, 679] [306, 724] 102.668 ZTOIP 0.10 500 2 1000 502.740 [445, 568] [418, 595] 37.779 ZTOIP 0.10 500 3 1000 1501.16 [472, 531] [460, 547] 18.126 ZTOIP 0.10 1500 2 1000 1501.38 [1450, 1551] [1129, 2010] 199.845 ZTOIP 0.10 1500 3 1000 2501.386 [2120, 2961] [2022, 3158] 249.652 ZTOIP 0.10 2500 2 1000 2506.286 2120, 2961] [2022, 3158] 249.652 ZTOIP 0.10 2500 3 1000 2506.807 [2435, 2569] [2403, 2602] 41.253 ZTP 0.00 500 3 1000 500.466 [462, 544] [442, 566] 25.740 ZTP 0.00 500 3 1000 500.628 [491, 509]									
ZTOIP 0.10 500 2 1000 502.740 [445, 568] [418, 595] 37.779 ZTOIP 0.10 500 3 1000 501.116 [472, 531] [460, 547] 18.126 ZTOIP 0.10 1500 1 1000 1522.386 [1221, 1871] [1129, 2010] 199.845 ZTOIP 0.10 1500 2 1000 1504.797 [1404, 1615] [1365, 1660] 65.433 ZTOIP 0.10 2500 1 1000 2506.286 [2120, 2961] [2022, 3158] 249.652 ZTOIP 0.10 2500 3 1000 2500.807 [2435, 2569] [2403, 2602] 41.253 ZTP 0.00 500 1 1000 501.666 [462, 544] [442, 566] 25.740 ZTP 0.00 500 2 1000 500.655 [482, 519] [475, 525] 10.984 ZTP 0.00 500 2 1000 550.028 [491, 509]									
ZTOIP 0.10 500 3 1000 501.116 [472, 531] [460, 547] 18.126 ZTOIP 0.10 1500 1 1000 1522.386 [121, 1871] [1129, 2010] 199.845 ZTOIP 0.10 1500 2 1000 1504.797 [1404, 1615] [1365, 1660] 65.443 ZTOIP 0.10 2500 1 1000 2506.286 [2120, 2961] [2022, 3158] 249.652 ZTOIP 0.10 2500 2 1000 2500.807 [2435, 2569] [2403, 2602] 41.253 ZTP 0.00 500 1 1000 50.655 [482, 519] [475, 525] 10.984 ZTP 0.00 500 3 1000 500.655 [482, 519] [475, 525] 10.984 ZTP 0.00 1500 3 1000 1502.316 [427, 1582] [1404, 1612] 46.741 ZTP 0.00 1500 3 1000 1500.519 [468, 1531]									
ZTOIP 0.10 1500 1 1000 1522.386 [121, 1871] [1129, 2010] 199.845 ZTOIP 0.10 1500 2 1000 1501.038 [1450, 1551] [1365, 1660] 65.443 ZTOIP 0.10 2500 1 1000 2506.286 [2120, 2961] [2022, 3158] 249.652 ZTOIP 0.10 2500 2 1000 2497.065 [2361, 2630] [2305, 2681] 82.188 ZTOIP 0.10 2500 3 1000 2500.807 [2435, 2569] [2403, 2602] 41.253 ZTP 0.00 500 2 1000 500.655 [482, 519] [475, 525] 10.984 ZTP 0.00 500 3 1000 500.028 [491, 509] [487, 512] 5.397 ZTP 0.00 1500 1 1000 1500.319 [1468, 1531] [1454, 1541] 1475, 525] 10.984 ZTP 0.00 1500 3 1000 1500.077 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
ZTOIP 0.10 1500 2 1000 1504.797 [1404, 1615] [1365, 1660] 65.443 ZTOIP 0.10 1500 3 1000 1501.038 [1450, 1551] [1432, 1571] 30.586 ZTOIP 0.10 2500 2 1000 2497.065 [2361, 2630] [2305, 2681] 82.188 ZTOIP 0.10 2500 3 1000 2500.807 [2435, 2569] [2403, 2602] 41.253 ZTP 0.00 500 2 1000 500.655 [482, 519] [475, 525] 10.984 ZTP 0.00 500 2 1000 500.028 [491, 509] [487, 512] 5.397 ZTP 0.00 1500 3 1000 1500.211 [1427, 1582] [1404, 1612] 46.741 ZTP 0.00 1500 3 1000 1500.211 [1484, 1516] [1478, 1523] 9.616 ZTP 0.00 1500 3 1000 1500.013 [1460, 424]									
ZTOIP 0.10 1500 3 1000 1501.038 [1450, 1551] [1432, 1571] 30.586 ZTOIP 0.10 2500 1 1000 2506.286 [2120, 2961] [2022, 3158] 249.652 ZTOIP 0.10 2500 3 1000 2500.807 [2435, 2569] [2403, 2602] 41.253 ZTP 0.00 500 1 1000 501.466 [462, 544] [442, 566] 25.740 ZTP 0.00 500 3 1000 500.655 [482, 519] [475, 525] 10.984 ZTP 0.00 1500 1 1000 1500.2316 [1427, 1582] [1404, 1612] 46.741 ZTP 0.00 1500 3 1000 1500.519 [1468, 1531] [1454, 1540] 18.944 ZTP 0.00 1500 3 1000 2500.077 [1484, 1516] [1478, 1523] 9.616 ZTP 0.00 2500 3 1000 2500.077 [1484, 1516] <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
ZTOIP 0.10 2500 1 1000 2506.286 [2120, 2961] [2022, 3158] 249.652 ZTOIP 0.10 2500 2 1000 2497.065 [2361, 2630] [2305, 2681] 82.188 ZTP 0.00 500 1 1000 501.466 [462, 544] [442, 566] 25.740 ZTP 0.00 500 2 1000 500.655 [482, 519] [475, 525] 10.984 ZTP 0.00 500 3 1000 500.028 [491, 509] [487, 512] 5.397 ZTP 0.00 1500 1 1000 1500.211 [468, 519] [475, 525] 10.984 ZTP 0.00 1500 2 1000 1500.271 [484, 516] [1474, 1523] 9.616 ZTP 0.00 1500 3 1000 2500.925 [2404, 2604] 2372, 2634] 59.249 ZTP 0.00 2500 3 1000 2500.925 [2404, 2604] 237									
ZTOIP 0.10 2500 2 1000 2497.065 [2361, 2630] [2305, 2681] 82.188 ZTOIP 0.10 2500 3 1000 2500.807 [2435, 2569] [2403, 2602] 41.253 ZTP 0.00 500 1 1000 501.466 [462, 544] [442, 566] 25.740 ZTP 0.00 500 3 1000 500.028 [491, 509] [487, 512] 5.397 ZTP 0.00 1500 1 1000 1500.2316 [1427, 1582] [1404, 1612] 46.741 ZTP 0.00 1500 2 1000 1500.519 [1468, 1531] [1454, 1540] 18.944 ZTP 0.00 1500 3 1000 2500.925 [2404, 2604] [2372, 2634] 59.249 ZTP 0.00 2500 2 1000 2500.018 [2462, 2539] [2444, 2555] 23.489 ZTP 0.00 2500 3 1000 567.476 [513, 630]									
ZTOIP 0.10 2500 3 1000 2500.807 [2435, 2569] [2403, 2602] 41.253 ZTP 0.00 500 1 1000 501.466 [462, 544] [442, 566] 25.740 ZTP 0.00 500 2 1000 500.028 [491, 509] [487, 512] 5.397 ZTP 0.00 1500 1 1000 1502.316 [1427, 1582] [1404, 1612] 46.741 ZTP 0.00 1500 2 1000 1500.519 [1468, 1531] [1454, 1540] 18.944 ZTP 0.00 1500 3 1000 1500.077 [1484, 1516] [1478, 1523] 9.616 ZTP 0.00 2500 1 1000 2500.925 [2404, 2604] [2372, 2634] 59.249 ZTP 0.00 2500 3 1000 2500.012 [2476, 2539] [2444, 2555] 23.489 ZTP 0.05 500 1 1000 2560.025 [2476, 656]									
ZTP 0.00 500 1 1000 501.466 [462, 544] [442, 566] 25.740 ZTP 0.00 500 2 1000 500.655 [482, 519] [475, 525] 10.984 ZTP 0.00 500 3 1000 500.028 [491, 509] [487, 512] 5.397 ZTP 0.00 1500 1 1000 1500.516 [1427, 1582] [1404, 1612] 46.741 ZTP 0.00 1500 3 1000 1500.077 [1484, 1516] [1478, 1523] 9.616 ZTP 0.00 2500 1 1000 2500.025 [2404, 2604] [2372, 2634] 59.249 ZTP 0.00 2500 3 1000 2500.047 [2478, 2521] [2470, 2527] 12.956 ZTP 0.05 500 1 1000 567.476 [513, 630] [496, 659] 76.005 ZTP 0.05 500 3 1000 593.732 [572, 614] [564, 669]<									
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$									
ZTP 0.00 500 3 1000 500.028 [491, 509] [487, 512] 5.397 ZTP 0.00 1500 1 1000 1502.316 [1427, 1582] [1404, 1612] 46.741 ZTP 0.00 1500 2 1000 1500.519 [1468, 1531] [1454, 1540] 18.944 ZTP 0.00 2500 1 1000 2500.925 [2404, 2604] [2372, 2634] 59.249 ZTP 0.00 2500 2 1000 2500.018 [2462, 2539] [2444, 2555] 23.489 ZTP 0.00 2500 3 1000 2500.047 [2478, 2521] [2470, 2527] 12.956 ZTP 0.05 500 1 1000 567.476 [513, 630] [496, 659] 76.005 ZTP 0.05 500 2 1000 578.105 [550, 604] [542, 616] 79.857 ZTP 0.05 500 3 1000 593.732 [572, 614] [564									
ZTP 0.00 1500 1 1000 1502.316 [1427, 1582] [1404, 1612] 46.741 ZTP 0.00 1500 2 1000 1500.519 [1468, 1531] [1454, 1540] 18.944 ZTP 0.00 1500 3 1000 1500.077 [1484, 1516] [1478, 1523] 9.616 ZTP 0.00 2500 1 1000 2500.925 [2404, 2604] 2372, 2634] 59.249 ZTP 0.00 2500 2 1000 2500.047 [2478, 2521] 2447, 2527] 12.956 ZTP 0.05 500 1 1000 567.476 [513, 630] 496, 659] 76.005 ZTP 0.05 500 2 1000 578.105 [550, 604] [542, 616] 79.857 ZTP 0.05 1500 1 1000 1695.947 [1612, 1792] [1577, 1838] 203.590 ZTP 0.05 1500 1 1000 1695.947 [1612, 1792]									
ZTP 0.00 1500 2 1000 1500.519 [1468, 1531] [1454, 1540] 18.944 ZTP 0.00 1500 3 1000 1500.077 [1484, 1516] [1478, 1523] 9.616 ZTP 0.00 2500 1 1000 2500.925 [2404, 2604] [2372, 2634] 59.249 ZTP 0.00 2500 2 1000 2500.018 [2462, 2539] [2444, 2555] 23.489 ZTP 0.05 500 1 1000 567.476 [513, 630] [496, 659] 76.005 ZTP 0.05 500 2 1000 578.105 [550, 604] [542, 616] 79.857 ZTP 0.05 500 3 1000 593.732 [572, 614] [564, 624] 94.618 ZTP 0.05 1500 1 1000 1695.947 [1612, 1792] [1577, 1838] 203.590 ZTP 0.05 1500 3 1000 1733.515 [1686, 1781] <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>									
ZTP 0.00 1500 3 1000 1500.077 [1484, 1516] [1478, 1523] 9.616 ZTP 0.00 2500 1 1000 2500.925 [2404, 2604] [2372, 2634] 59.249 ZTP 0.00 2500 2 1000 2500.018 [2462, 2539] [2444, 2555] 23.489 ZTP 0.00 2500 3 1000 2500.047 [2478, 2521] [2470, 2527] 12.956 ZTP 0.05 500 1 1000 567.476 [513, 630] [496, 659] 76.005 ZTP 0.05 500 2 1000 578.105 [550, 604] [542, 616] 79.857 ZTP 0.05 500 3 1000 1695.947 [1612, 1792] [1577, 1838] 203.596 ZTP 0.05 1500 3 1000 1733.515 [1686, 1781] [1668, 1799] 235.285 ZTP 0.05 2500 3 1000 1780.040 [1743, 1818]									
ZTP 0.00 2500 1 1000 2500.925 [2404, 2604] [2372, 2634] 59.249 ZTP 0.00 2500 2 1000 2500.018 [2462, 2539] [2444, 2555] 23.489 ZTP 0.00 2500 3 1000 2500.047 [2478, 2521] [2470, 2527] 12.956 ZTP 0.05 500 1 1000 567.476 [513, 630] [496, 659] 76.005 ZTP 0.05 500 2 1000 578.105 [550, 604] [542, 616] 79.857 ZTP 0.05 500 3 1000 593.732 [572, 614] [564, 624] 94.618 ZTP 0.05 1500 1 1000 1695.947 [1612, 1792] [1577, 1838] 203.590 ZTP 0.05 1500 3 1000 1733.515 [1686, 1781] [1668, 1799] 235.285 ZTP 0.05 2500 3 1000 1780.040 [1743, 1818] <									
ZTP 0.00 2500 2 1000 2500.018 [2462, 2539] [2444, 2555] 23.489 ZTP 0.00 2500 3 1000 2500.047 [2478, 2521] [2470, 2527] 12.956 ZTP 0.05 500 1 1000 567.476 [513, 630] [496, 659] 76.005 ZTP 0.05 500 2 1000 578.105 [550, 604] [542, 616] 79.857 ZTP 0.05 500 3 1000 593.732 [572, 614] [564, 624] 94.618 ZTP 0.05 1500 1 1000 1695.947 [1612, 1792] [1577, 1838] 203.590 ZTP 0.05 1500 3 1000 1780.040 [1743, 1818] [1668, 1799] 235.285 ZTP 0.05 2500 1 1000 2823.918 [2700, 2962] [2639, 3018] 333.494 ZTP 0.05 2500 2 1000 2888.895 [2825, 2950]									
ZTP 0.00 2500 3 1000 2500.047 [2478, 2521] [2470, 2527] 12.956 ZTP 0.05 500 1 1000 567.476 [513, 630] [496, 659] 76.005 ZTP 0.05 500 2 1000 578.105 [550, 604] [542, 616] 79.857 ZTP 0.05 500 3 1000 593.732 [572, 614] [564, 624] 94.618 ZTP 0.05 1500 1 1000 1695.947 [1612, 1792] [1577, 1838] 203.590 ZTP 0.05 1500 2 1000 1733.515 [1686, 1781] [1668, 1799] 235.285 ZTP 0.05 1500 3 1000 1780.040 [1743, 1818] [1730, 1836] 280.974 ZTP 0.05 2500 1 1000 2828.918 [2700, 2962] [2639, 3018] 333.494 ZTP 0.05 2500 2 1000 2888.895 [2825, 2950]									
ZTP 0.05 500 1 1000 567.476 [513, 630] [496, 659] 76.005 ZTP 0.05 500 2 1000 578.105 [550, 604] [542, 616] 79.857 ZTP 0.05 500 3 1000 593.732 [572, 614] [564, 624] 94.618 ZTP 0.05 1500 1 1000 1695.947 [1612, 1792] [1577, 1838] 203.590 ZTP 0.05 1500 2 1000 1733.515 [1686, 1781] [1668, 1799] 235.285 ZTP 0.05 1500 3 1000 1780.040 [1743, 1818] [1730, 1836] 280.974 ZTP 0.05 2500 1 1000 2823.918 [2700, 2962] [2639, 3018] 333.494 ZTP 0.05 2500 3 1000 2888.895 [2825, 2950] [2801, 2979] 390.703 ZTP 0.10 500 1 1000 661.150 [627, 704] <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>									
ZTP 0.05 500 2 1000 578.105 [550, 604] [542, 616] 79.857 ZTP 0.05 500 3 1000 593.732 [572, 614] [564, 624] 94.618 ZTP 0.05 1500 1 1000 1695.947 [1612, 1792] [1577, 1838] 203.590 ZTP 0.05 1500 2 1000 1733.515 [1686, 1781] [1668, 1799] 235.285 ZTP 0.05 1500 3 1000 1780.040 [1743, 1818] [1730, 1836] 280.974 ZTP 0.05 2500 1 1000 2823.918 [2700, 2962] [2639, 3018] 333.494 ZTP 0.05 2500 2 1000 2888.895 [2825, 2950] [2801, 2979] 390.703 ZTP 0.05 2500 3 1000 2968.134 [2921, 3013] [2903, 3028] 468.976 ZTP 0.10 500 1 1000 661.150 [627, 704]									
ZTP 0.05 500 3 1000 593.732 [572, 614] [564, 624] 94.618 ZTP 0.05 1500 1 1000 1695.947 [1612, 1792] [1577, 1838] 203.590 ZTP 0.05 1500 2 1000 1733.515 [1686, 1781] [1668, 1799] 235.285 ZTP 0.05 1500 3 1000 1780.040 [1743, 1818] [1730, 1836] 280.974 ZTP 0.05 2500 1 1000 2823.918 [2700, 2962] [2639, 3018] 333.494 ZTP 0.05 2500 2 1000 2888.895 [2825, 2950] [2801, 2979] 390.703 ZTP 0.05 2500 3 1000 2968.134 [2921, 3013] [2903, 3028] 468.976 ZTP 0.10 500 1 1000 641.600 [574, 714] [555, 756] 148.111 ZTP 0.10 500 3 1000 698.049 [666, 729]									
ZTP 0.05 1500 1 1000 1695.947 [1612, 1792] [1577, 1838] 203.590 ZTP 0.05 1500 2 1000 1733.515 [1686, 1781] [1668, 1799] 235.285 ZTP 0.05 1500 3 1000 1780.040 [1743, 1818] [1730, 1836] 280.974 ZTP 0.05 2500 1 1000 2823.918 [2700, 2962] [2639, 3018] 333.494 ZTP 0.05 2500 2 1000 2888.895 [2825, 2950] [2801, 2979] 390.703 ZTP 0.05 2500 3 1000 2968.134 [2921, 3013] [2903, 3028] 468.976 ZTP 0.10 500 1 1000 641.600 [574, 714] [555, 756] 148.111 ZTP 0.10 500 3 1000 698.049 [666, 729] [657, 738] 198.921 ZTP 0.10 1500 1 1000 1918.818 [1803, 2047] <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
ZTP 0.05 1500 2 1000 1733.515 [1686, 1781] [1668, 1799] 235.285 ZTP 0.05 1500 3 1000 1780.040 [1743, 1818] [1730, 1836] 280.974 ZTP 0.05 2500 1 1000 2823.918 [2700, 2962] [2639, 3018] 333.494 ZTP 0.05 2500 2 1000 2888.895 [2825, 2950] [2801, 2979] 390.703 ZTP 0.05 2500 3 1000 2968.134 [2921, 3013] [2903, 3028] 468.976 ZTP 0.10 500 1 1000 641.600 [574, 714] [555, 756] 148.111 ZTP 0.10 500 2 1000 666.115 [627, 704] [612, 721] 167.824 ZTP 0.10 1500 3 1000 698.049 [666, 729] [657, 738] 198.921 ZTP 0.10 1500 1 1000 1995.961 [1927, 2064]							. , ,		
ZTP 0.05 1500 3 1000 1780.040 [1743, 1818] [1730, 1836] 280.974 ZTP 0.05 2500 1 1000 2823.918 [2700, 2962] [2639, 3018] 333.494 ZTP 0.05 2500 2 1000 2888.895 [2825, 2950] [2801, 2979] 390.703 ZTP 0.05 2500 3 1000 2968.134 [2921, 3013] [2903, 3028] 468.976 ZTP 0.10 500 1 1000 641.600 [574, 714] [555, 756] 148.111 ZTP 0.10 500 2 1000 666.115 [627, 704] [612, 721] 167.824 ZTP 0.10 500 3 1000 698.049 [666, 729] [657, 738] 198.921 ZTP 0.10 1500 1 1000 1918.818 [1803, 2047] [1772, 2097] 425.173 ZTP 0.10 1500 2 1000 1995.961 [1927, 2064]									
ZTP 0.05 2500 1 1000 2823.918 [2700, 2962] [2639, 3018] 333.494 ZTP 0.05 2500 2 1000 2888.895 [2825, 2950] [2801, 2979] 390.703 ZTP 0.05 2500 3 1000 2968.134 [2921, 3013] [2903, 3028] 468.976 ZTP 0.10 500 1 1000 641.600 [574, 714] [555, 756] 148.111 ZTP 0.10 500 2 1000 666.115 [627, 704] [612, 721] 167.824 ZTP 0.10 500 3 1000 698.049 [666, 729] [657, 738] 198.921 ZTP 0.10 1500 1 1000 1918.818 [1803, 2047] [1772, 2097] 425.173 ZTP 0.10 1500 2 1000 1995.961 [1927, 2064] [1899, 2096] 497.663 ZTP 0.10 2500 1 1000 3192.665 [3040, 3352]									
ZTP 0.05 2500 2 1000 2888.895 [2825, 2950] [2801, 2979] 390.703 ZTP 0.05 2500 3 1000 2968.134 [2921, 3013] [2903, 3028] 468.976 ZTP 0.10 500 1 1000 641.600 [574, 714] [555, 756] 148.111 ZTP 0.10 500 2 1000 666.115 [627, 704] [612, 721] 167.824 ZTP 0.10 500 3 1000 698.049 [666, 729] [657, 738] 198.921 ZTP 0.10 1500 1 1000 1918.818 [1803, 2047] [1772, 2097] 425.173 ZTP 0.10 1500 2 1000 1995.961 [1927, 2064] [1899, 2096] 497.663 ZTP 0.10 1500 3 1000 2092.123 [2038, 2148] [2013, 2165] 593.115 ZTP 0.10 2500 1 1000 3192.665 [3040, 3352]									
ZTP 0.05 2500 3 1000 2968.134 [2921, 3013] [2903, 3028] 468.976 ZTP 0.10 500 1 1000 641.600 [574, 714] [555, 756] 148.111 ZTP 0.10 500 2 1000 666.115 [627, 704] [612, 721] 167.824 ZTP 0.10 500 3 1000 698.049 [666, 729] [657, 738] 198.921 ZTP 0.10 1500 1 1000 1918.818 [1803, 2047] [1772, 2097] 425.173 ZTP 0.10 1500 2 1000 1995.961 [1927, 2064] [1899, 2096] 497.663 ZTP 0.10 1500 3 1000 2092.123 [2038, 2148] [2013, 2165] 593.115 ZTP 0.10 2500 1 1000 3192.665 [3040, 3352] [2968, 3433] 699.417 ZTP 0.10 2500 2 1000 3326.274 [3240, 3418]									
ZTP 0.10 500 1 1000 641.600 [574, 714] [555, 756] 148.111 ZTP 0.10 500 2 1000 666.115 [627, 704] [612, 721] 167.824 ZTP 0.10 500 3 1000 698.049 [666, 729] [657, 738] 198.921 ZTP 0.10 1500 1 1000 1918.818 [1803, 2047] [1772, 2097] 425.173 ZTP 0.10 1500 2 1000 1995.961 [1927, 2064] [1899, 2096] 497.663 ZTP 0.10 1500 3 1000 2092.123 [2038, 2148] [2013, 2165] 593.115 ZTP 0.10 2500 1 1000 3192.665 [3040, 3352] [2968, 3433] 699.417 ZTP 0.10 2500 2 1000 3326.274 [3240, 3418] [3204, 3451] 827.928 ZTP 0.10 2500 3 1000 3489.176 [3422, 3557] [3395, 3584] 990.046 ZTP 0.00 500 1									
ZTP 0.10 500 2 1000 666.115 [627, 704] [612, 721] 167.824 ZTP 0.10 500 3 1000 698.049 [666, 729] [657, 738] 198.921 ZTP 0.10 1500 1 1000 1918.818 [1803, 2047] [1772, 2097] 425.173 ZTP 0.10 1500 2 1000 1995.961 [1927, 2064] [1899, 2096] 497.663 ZTP 0.10 1500 3 1000 2092.123 [2038, 2148] [2013, 2165] 593.115 ZTP 0.10 2500 1 1000 3192.665 [3040, 3352] [2968, 3433] 699.417 ZTP 0.10 2500 2 1000 3326.274 [3240, 3418] [3204, 3451] 827.928 ZTP 0.10 2500 3 1000 3489.176 [3422, 3557] [3395, 3584] 990.046 ZTP 0.00 500 1 100 499.770 [456, 539] [431, 547] 24.027 ZTP 0.00 500 2 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>									
ZTP 0.10 500 3 1000 698.049 [666, 729] [657, 738] 198.921 ZTP 0.10 1500 1 1000 1918.818 [1803, 2047] [1772, 2097] 425.173 ZTP 0.10 1500 2 1000 1995.961 [1927, 2064] [1899, 2096] 497.663 ZTP 0.10 1500 3 1000 2092.123 [2038, 2148] [2013, 2165] 593.115 ZTP 0.10 2500 1 1000 3192.665 [3040, 3352] [2968, 3433] 699.417 ZTP 0.10 2500 2 1000 3326.274 [3240, 3418] [3204, 3451] 827.928 ZTP 0.10 2500 3 1000 3489.176 [3422, 3557] [3395, 3584] 990.046 ZTP 0.00 500 1 100 499.770 [456, 539] [431, 547] 24.027 ZTP 0.00 500 2 100 499.840 [491, 508]									
ZTP 0.10 1500 1 1000 1918.818 [1803, 2047] [1772, 2097] 425.173 ZTP 0.10 1500 2 1000 1995.961 [1927, 2064] [1899, 2096] 497.663 ZTP 0.10 1500 3 1000 2092.123 [2038, 2148] [2013, 2165] 593.115 ZTP 0.10 2500 1 1000 3192.665 [3040, 3352] [2968, 3433] 699.417 ZTP 0.10 2500 2 1000 3326.274 [3240, 3418] [3204, 3451] 827.928 ZTP 0.10 2500 3 1000 3489.176 [3422, 3557] [3395, 3584] 990.046 ZTP 0.00 500 1 100 499.770 [456, 539] [431, 547] 24.027 ZTP 0.00 500 2 100 499.690 [477, 520] [475, 524] 12.039 ZTP 0.00 500 3 100 499.840 [491, 508] [487, 510] 5.030 ZTP 0.00 2500 1 10									
ZTP 0.10 1500 2 1000 1995.961 [1927, 2064] [1899, 2096] 497.663 ZTP 0.10 1500 3 1000 2092.123 [2038, 2148] [2013, 2165] 593.115 ZTP 0.10 2500 1 1000 3192.665 [3040, 3352] [2968, 3433] 699.417 ZTP 0.10 2500 2 1000 3326.274 [3240, 3418] [3204, 3451] 827.928 ZTP 0.10 2500 3 1000 3489.176 [3422, 3557] [3395, 3584] 990.046 ZTP 0.00 500 1 100 499.770 [456, 539] [431, 547] 24.027 ZTP 0.00 500 2 100 499.690 [477, 520] [475, 524] 12.039 ZTP 0.00 500 3 100 499.840 [491, 508] [487, 510] 5.030 ZTP 0.00 2500 1 100 2502.840 [2401, 2589] [2368, 2620] 55.643 ZTP 0.00 2500 2 100<									
ZTP 0.10 1500 3 1000 2092.123 [2038, 2148] [2013, 2165] 593.115 ZTP 0.10 2500 1 1000 3192.665 [3040, 3352] [2968, 3433] 699.417 ZTP 0.10 2500 2 1000 3326.274 [3240, 3418] [3204, 3451] 827.928 ZTP 0.10 2500 3 1000 3489.176 [3422, 3557] [3395, 3584] 990.046 ZTP 0.00 500 1 100 499.770 [456, 539] [431, 547] 24.027 ZTP 0.00 500 2 100 499.690 [477, 520] [475, 524] 12.039 ZTP 0.00 500 3 100 499.840 [491, 508] [487, 510] 5.030 ZTP 0.00 2500 1 100 2502.840 [2401, 2589] [2368, 2620] 55.643 ZTP 0.00 2500 2 100 2494.820 [2453, 2533] [2444, 2537] 24.372									
ZTP 0.10 2500 1 1000 3192.665 [3040, 3352] [2968, 3433] 699.417 ZTP 0.10 2500 2 1000 3326.274 [3240, 3418] [3204, 3451] 827.928 ZTP 0.10 2500 3 1000 3489.176 [3422, 3557] [3395, 3584] 990.046 ZTP 0.00 500 1 100 499.770 [456, 539] [431, 547] 24.027 ZTP 0.00 500 2 100 499.690 [477, 520] [475, 524] 12.039 ZTP 0.00 500 3 100 499.840 [491, 508] [487, 510] 5.030 ZTP 0.00 2500 1 100 2502.840 [2401, 2589] [2368, 2620] 55.643 ZTP 0.00 2500 2 100 2494.820 [2453, 2533] [2444, 2537] 24.372									
ZTP 0.10 2500 2 1000 3326.274 [3240, 3418] [3204, 3451] 827.928 ZTP 0.10 2500 3 1000 3489.176 [3422, 3557] [3395, 3584] 990.046 ZTP 0.00 500 1 100 499.770 [456, 539] [431, 547] 24.027 ZTP 0.00 500 2 100 499.690 [477, 520] [475, 524] 12.039 ZTP 0.00 500 3 100 499.840 [491, 508] [487, 510] 5.030 ZTP 0.00 2500 1 100 2502.840 [2401, 2589] [2368, 2620] 55.643 ZTP 0.00 2500 2 100 2494.820 [2453, 2533] [2444, 2537] 24.372									
ZTP 0.10 2500 3 1000 3489.176 [3422, 3557] [3395, 3584] 990.046 ZTP 0.00 500 1 100 499.770 [456, 539] [431, 547] 24.027 ZTP 0.00 500 2 100 499.690 [477, 520] [475, 524] 12.039 ZTP 0.00 500 3 100 499.840 [491, 508] [487, 510] 5.030 ZTP 0.00 2500 1 100 2502.840 [2401, 2589] [2368, 2620] 55.643 ZTP 0.00 2500 2 100 2494.820 [2453, 2533] [2444, 2537] 24.372									
ZTP 0.00 500 1 100 499.770 [456, 539] [431, 547] 24.027 ZTP 0.00 500 2 100 499.690 [477, 520] [475, 524] 12.039 ZTP 0.00 500 3 100 499.840 [491, 508] [487, 510] 5.030 ZTP 0.00 2500 1 100 2502.840 [2401, 2589] [2368, 2620] 55.643 ZTP 0.00 2500 2 100 2494.820 [2453, 2533] [2444, 2537] 24.372									
ZTP 0.00 500 2 100 499.690 [477, 520] [475, 524] 12.039 ZTP 0.00 500 3 100 499.840 [491, 508] [487, 510] 5.030 ZTP 0.00 2500 1 100 2502.840 [2401, 2589] [2368, 2620] 55.643 ZTP 0.00 2500 2 100 2494.820 [2453, 2533] [2444, 2537] 24.372									
ZTP 0.00 500 3 100 499.840 [491, 508] [487, 510] 5.030 ZTP 0.00 2500 1 100 2502.840 [2401, 2589] [2368, 2620] 55.643 ZTP 0.00 2500 2 100 2494.820 [2453, 2533] [2444, 2537] 24.372									
ZTP 0.00 2500 1 100 2502.840 [2401, 2589] [2368, 2620] 55.643 ZTP 0.00 2500 2 100 2494.820 [2453, 2533] [2444, 2537] 24.372									
ZTP 0.00 2500 2 100 2494.820 [2453, 2533] [2444, 2537] 24.372									
	ZTP	0.00	2500		100	2500.150	[2476, 2523]	[2467, 2528]	12.960

Type	p	N	λ	n	\bar{N}	90% CI	99% CI	RMSE
ZTP	0.10	500	1	100	637.750	[575, 717]	[536, 750]	144.346
ZTP	0.10	500	2	100	663.030	[626, 704]	[607, 707]	164.411
ZTP	0.10	500	3	100	692.970	[668, 717]	[652, 726]	193.600
ZTP	0.10	2500	1	100	3203.340	[3043, 3377]	[3015, 3473]	710.561
ZTP	0.10	2500	2	100	3323.640	[3231, 3409]	[3204, 3446]	825.312
ZTP	0.10	2500	3	100	3493.880	[3425, 3557]	[3394, 3591]	994.758
ZTP	0.20	500	1	100	816.620	[721, 928]	[685, 994]	323.520
ZTP	0.20	500	2	100	875.770	[827, 927]	[810, 990]	377.385
ZTP	0.20	500	3	100	954.690	[899, 997]	[874, 1012]	455.594
ZTP	0.20	2500	1	100	4184.150	[3884, 4487]	[3829, 4560]	1692.679
ZTP	0.20	2500	2	100	4420.200	[4274, 4547]	[4242, 4591]	1922.072
ZTP	0.20	2500	3	100	4745.830	[4627, 4860]	[4512, 4902]	2247.061
ZTP	0.30	500	1	100	1107.230	[944, 1279]	[846, 1312]	616.347
ZTP	0.30	500	2	100	1189.460	[1079, 1282]	[1033, 1327]	692.422
ZTP	0.30	500	3	100	1295.960	[1208, 1398]	[1177, 1426]	797.996
ZTP	0.30	2500	1	100	5523.030	[5160, 5834]	[5075, 5973]	3029.958
ZTP	0.30	2500	2	100	5959.290	[5742, 6175]	[5630, 6263]	3461.917
ZTP	0.30	2500	3	100	6494.470	[6264, 6703]	[6197, 6861]	3996.654
ZTP	0.40	500	1	100	1562.130	[1319, 1868]	[1181, 1996]	1075.897
ZTP	0.40	500	2	100	1654.140	[1484, 1801]	[1395, 1936]	1158.904
ZTP	0.40	500	3	100	1789.190	[1693, 1898]	[1574, 1946]	1291.144
ZTP	0.40	2500	1	100	7539.170	[6859, 8130]	[6590, 8393]	5054.604
ZTP	0.40	2500	2	100	8267.580	[7890, 8643]	[7778, 8803]	5771.913
ZTP	0.40	2500	3	100	8982.160	[8691, 9278]	[8536, 9469]	6484.816

ZTOINB simulations

Type	p N	λ	k	$ar{N}$	90% CI	99% CI	RMSE
ZOTNB 0.0	0 500	1	0.2	118033.629	[364, 294]	[195, 242]	284495.720
ZOTNB 0.0	0 500	1	0.6	87194.406	[473, 205]	[1711, 643]	269133.604
ZOTNB 0.0	0 500	1	1.0	69725.323	[373, 423]	[620417, 374]	257708.983
ZOTNB 0.0	0 500	2	0.2	47707.386	[2318, 360]	[327, 545]	260414.467
ZOTNB 0.0	0 500	2	0.6	1837.972	[939, 679]	[509, 447]	28684.828
ZOTNB 0.0	0 500	2	1.0	528.658	[435, 382]	[373, 464]	149.966
ZOTNB 0.0	0 500	3	0.2	1886.640	[487, 439]	[513, 523]	35297.102
ZOTNB 0.0	0 500	3	0.6	508.084	[446, 632]	[467, 533]	66.205
ZOTNB 0.0	0 500	3	1.0	505.365	[534, 485]	[497, 467]	48.674
ZOTNB 0.0	0 1500	1	0.2	370380.547	[726, 2428960]	[873, 1163]	3114148.761
ZOTNB 0.0	0 1500	1	0.6	68381.830	[1139, 2266]	[823, 1052]	395225.433
ZOTNB 0.0	0 1500	1	1.0	53851.249	[1670, 977]	[1750, 1313]	374430.569
ZOTNB 0.0	0 1500	2	0.2	22560.082	[2122, 1238]	[1539, 1283]	306720.349
ZOTNB 0.0	0 1500	2	0.6	1554.353	[1915, 1691]	[2096, 1399]	279.560
ZOTNB 0.0	0 1500	2	1.0	1522.979	[2481, 1301]	[1453, 1786]	198.978
ZOTNB 0.0	0 1500	3	0.2	1544.789	[1556, 1337]	[1722, 1399]	251.871
ZOTNB 0.0	0 1500	3	0.6	1509.111	[1675, 1421]	[1491, 1492]	102.107
ZOTNB 0.0	0 1500	3	1.0	1505.914	[1476, 1528]	[1624, 1397]	78.006
ZOTNB 0.0	0 2500	1	0.2	346455.447	[3560, 2040]	[1111, 3002]	2140707.323
ZOTNB 0.0	0 2500	1	0.6	31601.438	[2164, 1368]	[1782, 4430]	407609.494
ZOTNB 0.0	0 2500	1	1.0	17306.805	[1895, 1863]	[2977, 2945]	313508.690
					_	-	

Type	p	N	λ	k	$ar{N}$	90% CI	99% CI	RMSE
ZOTNB	0.00	2500	2	0.2	2804.449	[2616, 6943]	[2706, 2353]	2580.526
ZOTNB	0.00	2500	2	0.6	2534.641	[2538, 2502]	[2187, 2932]	308.764
ZOTNB	0.00	2500	2	1.0	2525.070	[3127, 2446]	[2514, 2369]	244.687
ZOTNB	0.00	2500	3	0.2	2539.654	[2405, 2593]	[2253, 3078]	312.665
ZOTNB	0.00	2500	3	0.6	2501.302	[2485, 2502]	[2463, 2446]	130.482
ZOTNB	0.00	2500	3	1.0	2501.185	[2573, 2516]	[2560, 2429]	103.171
ZOTNB	0.05	500	1	0.2	124770.190	[248, 1076]	[338, 4250]	289360.689
ZOTNB	0.05	500	1	0.6	99775.379	[322701, 543]	[191, 195]	596397.939
ZOTNB	0.05	500	1	1.0	70696.867	[198, 1650]	[193, 1965]	244879.079
ZOTNB	0.05	500	2	0.2	57113.311	[2024, 705]	[477, 407]	280431.885
ZOTNB	0.05	500	2	0.6	2698.752	[336, 547]	[575, 474]	56371.059
ZOTNB	0.05	500	2	1.0	558.830	[778, 447]	[663, 454]	725.183
ZOTNB	0.05	500	3	0.2	3178.446	[843, 461]	[497, 386]	64908.544
ZOTNB	0.05	500	3	0.6	510.454	[470, 468]	[429, 558]	74.441
ZOTNB	0.05	500	3	1.0	505.120	[489, 486]	[495, 546]	53.871
ZOTNB	0.05	1500	1	0.2	242605.664	[1689, 685]	[809, 765]	694925.091
ZOTNB	0.05	1500	1	0.6	120312.303	[1280, 992409]	[1381, 1399]	783702.624
ZOTNB	0.05	1500	1	1.0	51155.950	[3545, 1380]	[2011, 1177]	329973.707
ZOTNB	0.05	1500	2	0.2	6651.298	[1612, 1343]	[6321, 1504]	100957.512
ZOTNB	0.05	1500	2	0.6	1550.391	[1546, 1406]	[2368, 1188]	307.629
ZOTNB	0.05	1500	2	1.0	1532.907	[1497, 1265]	[1783, 1342]	212.908
ZOTNB	0.05	1500	3	0.2	1527.870	[1767, 1291]	[1353, 1523]	256.109
ZOTNB	0.05	1500	3	0.6	1512.366	[1689, 1493]	[1789, 1469]	109.419
ZOTNB	0.05	1500	3	1.0	1503.476	[1539, 1486]	[1377, 1544]	84.995
ZOTNB	0.05	2500	1	0.2	296129.261	[1400, 3223]	[1406, 3461]	1008101.851
ZOTNB	0.05	2500	1	0.6	60628.557	[2054, 3736]	[3050, 1966]	487908.161
ZOTNB	0.05	2500	1	1.0	14335.411	[1621, 2211]	[2749, 3502]	149681.476
ZOTNB	0.05	2500	2	0.2	3455.695	[1989, 3302]	[4659, 1923]	22771.310
ZOTNB	0.05	2500	2	0.6	2563.565	[2360, 2407]	[2823, 2677]	369.436
ZOTNB		2500	2	1.0	2521.357	[2137, 2879]	[2428, 2152]	272.578
ZOTNB		2500	3	0.2	2551.885	[3093, 2135]	[3060, 3199]	332.417
ZOTNB		2500	3	0.6	2504.755	[2620, 2536]	[2495, 2364]	135.169
ZOTNB		2500	3	1.0	2504.522	[2317, 2649]	[2504, 2453]	110.641
ZOTNB		500	1	0.2	115417.949	[212, 243]	[352, 481046]	268512.795
ZOTNB		500	1	0.6	83239.033	[730977, 261]	[518, 231]	249703.261
ZOTNB		500	1	1.0	86195.761	[294, 476620]	[273, 415]	266780.641
ZOTNB		500	1	2.0	62573.585	[330, 329268]	[477, 331]	235195.473
ZOTNB		500	2	0.2	56004.458	[359, 331]	[424, 459]	253450.411
ZOTNB		500	2	0.6	4904.217	[1045, 503]	[624, 315]	78061.016
ZOTNB		500	2	1.0	2152.802	[310, 418]	[515, 479]	50749.492
ZOTNB		500	2	2.0	532.126	[520, 440]	[552, 420]	190.390
ZOTNB		500	3	0.2	3721.020	[495, 439]	[1295, 599]	78914.851
ZOTNB		500	3	0.6	512.870	[488, 667]	[435, 472]	84.009
ZOTNB		500	3	1.0	508.541	[503, 464]	[486, 574]	63.254
ZOTNB		500	3	2.0	503.542	[494, 507]	[530, 471]	43.200
ZOTNB		1500	1	0.2	269717.643	[21489, 1095]	[1582, 2079]	766920.985
ZOTNB		1500	1	0.6	132641.967	[2590, 966]	[2410, 627230]	596414.156
ZOTNB		1500	1	$\frac{1.0}{0.2}$	72684.143	[1353, 3005]	[689, 1631]	429369.270
ZOTNB		1500	$\frac{2}{2}$	$0.2 \\ 0.6$	17397.536	[1817, 2459]	[953, 1341]	273387.509
ZOTNB ZOTNB		1500	$\frac{2}{2}$	1.0	1538.304	[1456, 1422]	[1671, 1367]	315.501
ZOTNB		$1500 \\ 1500$	$\frac{2}{3}$	0.2	1532.442	[1409, 1221] [1579, 1302]	[1544, 1621] [1316, 1450]	241.353
LOIND	0.10	1900	3	0.2	1546.193	[1079, 1002]	[1310, 1400]	291.399

Type	p	N	λ	k	$ar{N}$	90% CI	99% CI	RMSE
ZOTNB	0.10	1500	3	0.6	1508.200	[1358, 1453]	[1432, 1411]	125.328
ZOTNB	0.10	1500	3	1.0	1503.692	[1658, 1524]	[1492, 1424]	94.189
ZOTNB	0.10	2500	1	0.2	332640.597	[1852, 4270006]	[1537, 1589]	1038239.723
ZOTNB	0.10	2500	1	0.6	73808.500	[15596, 2436]	[1916, 8228]	558533.478
ZOTNB	0.10	2500	1	1.0	34487.377	[1286, 1461]	[2400, 2279]	373960.255
ZOTNB	0.10	2500	2	0.2	5489.282	[2718, 1844]	[2571, 2936]	88062.813
ZOTNB	0.10	2500	2	0.6	2557.703	[2961, 2004]	[2275, 3092]	380.237
ZOTNB		2500	2	1.0	2531.200	[2574, 3186]	[2185, 2470]	288.395
ZOTNB	0.10	2500	3	0.2	2540.567	[2582, 2182]	[2560, 2637]	345.514
ZOTNB	0.10	2500	3	0.6	2508.969	[2635, 2472]	[2460, 2258]	150.597
ZOTNB		2500	3	1.0	2500.881	[2706, 2538]	[2494, 2468]	117.494
ZTNB	0.00	500	1	0.2	49802.981	[194216, 415]	[250, 863]	180007.284
ZTNB	0.00	500	1	0.6	2353.522	[461, 382]	[529, 536]	31801.576
ZTNB	0.00	500	1	1.0	784.231	[420, 548]	[918, 356]	8103.528
ZTNB	0.00	500	2	0.2	553.389	[718, 367]	[369, 505]	272.339
ZTNB	0.00	500	2	0.6	503.549	[548, 512]	[474, 518]	45.119
ZTNB	0.00	500	2	1.0	503.263	[478, 550]	[474, 481]	32.549
ZTNB	0.00	500	3	0.2	507.420	[476, 516]	[509, 471]	60.304
ZTNB	0.00	500	3	0.6	500.655	[461, 498]	[482, 517]	20.727
ZTNB	0.00	500	3	1.0	500.838	[502, 522]	[488, 511]	15.154
ZTNB	0.00	1500	1	0.2	18172.599	[910, 1310]	[1310, 1424]	158154.288
ZTNB	0.00	1500	1	0.6	1548.859	[1271, 1527]	[1542, 1574]	304.697
ZTNB	0.00	1500	1	1.0	1524.227	[1482, 1226]	[1377, 1348]	202.353
ZTNB	0.00	1500	2	0.2	1523.324	[1367, 1517]	[1388, 1766]	215.613
ZTNB	0.00	1500	2	0.6	1504.041	[1492, 1432]	[1636, 1443]	73.820
ZTNB	0.00	1500	2	1.0	1501.283	[1670, 1487]	[1584, 1492]	54.404
ZTNB	0.00	1500	3	0.2	1508.237	[1443, 1434]	[1440, 1593]	95.995
ZTNB	0.00	1500	3	0.6	1501.475	[1514, 1500]	[1520, 1463]	35.508
ZTNB	0.00	1500	3	1.0	1501.663	[1525, 1481]	[1513, 1511]	25.775
ZTNB	0.00	2500	1	0.2	6123.233	[2639, 2869]	[2192, 1812]	99734.090
ZTNB	0.00	2500	1	0.6	2574.014	[2572, 2401]	[2578, 2272]	411.430
ZTNB	0.00	2500	1	1.0	2538.906	[2506, 3013]	[2567, 2342]	258.639
ZTNB	0.00	2500	2	0.2	2533.842	[2211, 2700]	[2430, 2704]	259.133
ZTNB	0.00	2500	2	0.6	2500.195	[2515, 2363]	[2321, 2508]	96.283
ZTNB	0.00	2500	2	1.0	2502.056	[2554, 2614]	[2467, 2391]	69.351
ZTNB	0.00	2500	3	0.2	2505.760	[2702, 2714]	[2469, 2606]	122.122
ZTNB	0.00	2500	3	0.6	2501.523	[2487, 2469]	[2510, 2546]	44.553
ZTNB	0.00	2500	3	1.0	2500.362	[2515, 2476]	[2441, 2471]	32.080
ZTNB	0.05	500	1	0.2	379637.012	[1449, 28340]	[323788, 548409]	546507.039
ZTNB	0.05	500	1	0.6	40383.248	[203814, 633]	[2022, 511]	168173.403
ZTNB	0.05	500	1	1.0	27539.493	[878, 731]	[3114, 1054]	598800.575
ZTNB	0.05	500	2	0.2	440076.454	[1852, 9559]	[1966, 1808]	777083.924
ZTNB	0.05	500	2	0.6	846.083	[926, 731]	[877, 642]	397.710
ZTNB	0.05	500	2	1.0	719.787	[711, 811]	[907, 917]	241.094
ZTNB	0.05	500	3	0.2	346567.838	[3237, 1316454]	[4792, 2601]	3957782.618
ZTNB	0.05	500	3	0.6	794.985	[730, 786]	[758, 720]	307.792
ZTNB	0.05	500	3	1.0	711.268	[647, 719]	[719, 710]	217.459
ZTNB	0.05	1500	1	0.2	1457426.601	[908529,	[5782, 27348]	1841003.866
						1478418]		
ZTNB	0.05	1500	1	0.6	20123.814	[2189, 33760]	[2180, 2742]	175831.290
ZTNB	0.05	1500	1	1.0	2465.554	[2509, 2529]	[2647, 1933]	2503.268
ZTNB	0.05	1500	2	0.2	1213536.234	[1948828, 3614]	[6211088, 3641]	2421654.651

Type	p	N	λ	k	$ar{N}$	90% CI	99% CI	RMSE
ZTNB	0.05	1500	2	0.6	2445.055	[2322, 2744]	[2276, 2556]	986.796
ZTNB	0.05	1500	2	1.0	2119.999	[2067, 2150]	[2214, 1985]	636.733
ZTNB	0.05	1500	3	0.2	215796.146	[13338, 4963]	[5722, 7210]	1106995.370
ZTNB	0.05	1500	3	0.6	2342.783	[2298, 2489]	[2615, 2334]	855.032
ZTNB	0.05	1500	3	1.0	2118.239	[2290, 2115]	[2230, 2048]	624.216
ZTNB	0.05	2500	1	0.2	2529716.262	[4651119, 862927]	[2077481, 25375]	3374420.726
ZTNB	0.05	2500	1	0.6	6534.340	[4889, 4395]	[6496, 3176]	32343.367
ZTNB	0.05	2500	1	1.0	3917.949	[3074, 3705]	[3687, 4817]	1657.577
ZTNB	0.05	2500	2	0.2	2275920.260	[15950, 6101121]	[7291658, 57701]	9669470.303
ZTNB	0.05	2500	2	0.6	4079.596	[4087, 3860]	[3955, 4620]	1624.089
ZTNB	0.05	2500	2	1.0	3531.588	[3880, 3529]	[3312, 3453]	1049.052
ZTNB	0.05	2500	3	0.2	187237.607	[12380, 8261]	[9458, 19292]	1457373.311
ZTNB	0.05	2500	3	0.6	3900.340	[4030, 4022]	[4065, 4262]	1411.903
ZTNB	0.05	2500	3	1.0	3529.476	[3539, 3455]	[3495, 3736]	1035.249
ZTNB	0.10	500	1	0.2	503330.718	$[1101462, \\ 1418662]$	[194631, 1412]	602446.655
ZTNB	0.10	500	1	0.6	249913.245	[632152, 652861]	[1161, 1307]	470054.035
ZTNB	0.10	500	1	1.0	88143.480	[719, 1438]	[1615, 1056]	293916.213
ZTNB	0.10	500	2	0.2	1412915.296	[2831854, 585068]	[1812219, 1340646]	3156722.129
ZTNB	0.10	500	2	0.6	65671.382	[2347, 2879]	[2015, 2096]	320767.925
ZTNB	0.10	500	2	1.0	1202.638	[1215, 1276]	[986, 1935]	813.411
ZTNB	0.10	500	3	0.2	1965431.646	[1927769, 1899101]	[920907, 1872572]	2613362.589
ZTNB	0.10	500	3	0.6	9973.864	[3101, 2666]	[1466, 2387]	113997.260
ZTNB	0.10	500	3	1.0	1163.157	[1040, 1107]	[1106, 1149]	689.474
ZTNB	0.10	1500	1	0.2	1491369.129	[1231937, 1965708]	[956503, 1766063]	1722776.326
ZTNB	0.10	1500	1	0.6	867524.618	[5780, 3674]	[6119, 24120]	4055110.655
ZTNB	0.10	1500	1	1.0	68459.031	[3660, 5269]	[5475, 5088]	942839.813
ZTNB	0.10	1500	2	0.2	4426987.878	[4340030, 7558955]	[6302383, 2186842]	4971403.292
ZTNB	0.10	1500	2	0.6	16138.336	[11932, 3895]	[6564, 4938]	248340.302
ZTNB	0.10	1500	2	1.0	3478.416	[3410, 3181]	[2924, 3487]	2047.616
ZTNB	0.10	1500	3	0.2	5392809.477	[2177364, 1857475]	[2461365, 6032038]	6129801.237
ZTNB	0.10	1500	3	0.6	5209.950	[4482, 7245]	[4707, 4893]	3897.349
ZTNB	0.10	1500	3	1.0	3459.581	[3470, 3839]	[3715, 3590]	1983.031
ZTNB	0.10	2500	1	0.2	2429772.685	[4197017, 1594002]	[4472027, 2592122]	2763209.429
ZTNB	0.10	2500	1	0.6	1057616.727	[4529705, 4311378]	[2508663, 4399290]	3006716.925
ZTNB	0.10	2500	1	1.0	26943.816	[6707, 8134]	[5964, 7395]	306165.410
ZTNB	0.10	2500	2	0.2	7686258.180	[5209232, 6458253]	[2521865, 3338123]	8528659.981
ZTNB	0.10	2500	2	0.6	9865.002	[12576, 6888]	[10647, 7047]	8185.990
ZTNB	0.10	2500	2	1.0	5732.032	[6155, 6207]	[5681, 6197]	3286.507
ZTNB	0.10	2500	3	0.2	9565636.374	[2529247, 4239033]	[3015632, 12425508]	27959586.052
ZTNB	0.10	2500	3	0.6	8453.384	[10302, 12168]	[9546, 10052]	6077.336
ZTNB	0.10	2500	3	1.0	5746.936	[5775, 6502]	[5266, 5462]	3271.592

${\text{Type}} \qquad p$	N	λ	k	$ar{N}$	90% CI	99% CI	RMSE
ZTOINB0.00	500	1	0.2	24418.097	[364, 294]	[195, 242]	133578.412
ZTOINB0.00	500	1	0.6	942.815	[461, 205]	[529, 536]	10764.713
ZTOINB0.00	500	1	1.0	604.851	[373, 423]	[918, 356]	5726.360
ZTOINB0.00	500	2	0.2	473.839	[718, 360]	[327, 505]	205.913
ZTOINB0.00	500	2	0.6	463.497	[548, 512]	[474, 447]	73.461
ZTOINB0.00	500	2	1.0	469.361	[435, 382]	[373, 464]	58.948
ZTOINB0.00	500	3	0.2	470.406	[476, 439]	[509, 471]	74.560
ZTOINB0.00	500	3	0.6	481.749	[446, 498]	[467, 517]	36.667
ZTOINB0.00	500	3	1.0	486.237	[502, 485]	[488, 467]	27.390
ZTOINB0.00	1500	1	0.2	11555.967	[726, 1310]	[873, 1163]	159401.347
ZTOINB0.00	1500	1	0.6	1333.503	[1138, 1527]	[823, 1052]	400.763
ZTOINB0.00	1500	1	1.0	1357.819	[1482, 977]	[1377, 1348]	313.654
ZTOINB0.00	1500	2	0.2	1396.102	[1367, 1237]	[1388, 1283]	263.706
ZTOINB0.00	1500	2	0.6	1435.501	[1492, 1432]	[1636, 1398]	131.993
ZTOINB0.00	1500	2	1.0	1439.898	[1670, 1300]	[1453, 1492]	111.128
ZTOINB0.00	1500	3	0.2	1443.506	[1443, 1336]	[1440, 1398]	138.242
ZTOINB0.00	1500	3	0.6	1468.131	[1514, 1421]	[1491, 1463]	66.271
ZTOINB0.00	1500	3	1.0	1474.896	[1476, 1481]	[1513, 1396]	51.454
ZTOINB0.00	2500	1	0.2	6174.377	[2639, 2039]	[1110, 1812]	117271.926
ZTOINB0.00	2500	1	0.6	2262.650	[2164, 1368]	[1781, 2272]	536.389
ZTOINB0.00	2500	1	1.0	2277.235	[1895, 1863]	[2567, 2342]	449.310
ZTOINB0.00	2500	2	0.2	2364.810	[2211, 2700]	[2430, 2352]	349.662
ZTOINB0.00	2500	2	0.6	2406.278	[2515, 2363]	[2186, 2508]	181.743
ZTOINB0.00	2500	2	1.0	2424.634	[2554, 2446]	[2467, 2391]	147.783
ZTOINB0.00	2500	3	0.2	2416.489	[2404, 2592]	[2253, 2606]	183.819
ZTOINB0.00	2500	3	0.6	2453.349	[2481, 2469]	[2462, 2445]	89.462
ZTOINB0.00	2500	3	1.0	2462.751	[2515, 2476]	[2441, 2428]	72.346
ZTOINB0.05	500	1	0.2	98232.604	[248, 1074]	[338, 4239]	257928.350
ZTOINB0.05	500	1	0.6	10859.689	[330145, 543]	[191, 195]	80115.453
ZTOINB0.05	500	1	1.0	1846.956	[198, 731]	[193, 1054]	22948.901
ZTOINB0.05	500	2	0.2	44399.019	[1850, 704]	[477, 407]	237401.922
ZTOINB0.05	500	2	0.6	528.868	[336, 547]	[575, 474]	157.496
ZTOINB0.05	500	2	1.0	512.824	[711, 447]	[663, 454]	112.896
ZTOINB0.05	500	3	0.2	1094.646	[842, 461]	[497, 386]	16137.780
ZTOINB0.05	500	3	0.6	510.139	[470, 468]	[429, 558]	73.189
ZTOINB0.05	500	3	1.0	504.911	[489, 486]	[495, 546]	52.578
ZTOINB0.05	1500	1	0.2	216605.902	[1688, 685]	[809, 765]	629306.104
ZTOINB0.05	1500	1	0.6	1916.737	[1280, 33761]	[1381, 1399]	1966.470
ZTOINB0.05	1500	1	1.0	1606.148	[2509, 1380]	[2011, 1177]	688.631 103592.871
ZTOINB0.05	$1500 \\ 1500$	$\frac{2}{2}$	$0.2 \\ 0.6$	5617.272	[1612, 1343] [1546, 1406]	[6310, 1504]	
ZTOINB0.05 ZTOINB0.05	1500	2	1.0	1544.603 1531.289	[1497, 1265]	[2276, 1188] [1783, 1342]	282.021 207.667
ZTOINB0.05	1500	3	0.2	1531.269 1527.627	[1767, 1291]	[1763, 1542] $[1353, 1522]$	255.936
ZTOINB0.05	1500	3	0.6	1512.259	[1689, 1493]	[1789, 1469]	109.347
ZTOINB0.05	1500	3	1.0	1503.392	[1539, 1486]	[1377, 1544]	84.964
ZTOINB0.05	2500	1	0.2	269520.739	[1400, 3222]	[1406, 3460]	1037221.179
ZTOINB0.05	2500	1	0.6	3038.481	[2054, 3735]	[3050, 1966]	2053.624
ZTOINB0.05	2500	1	1.0	2634.231	[1620, 2211]	[2749, 3501]	866.847
ZTOINB0.05	2500	2	0.2	3376.499	[1988, 3301]	[4656, 1923]	20304.794
ZTOINB0.05	2500	$\frac{2}{2}$	0.6	2562.656	[2360, 2407]	[2822, 2677]	365.293
ZTOINB0.05	2500	2	1.0	2519.909	[2137, 2879]	[2428, 2152]	266.980
ZTOINB0.05	2500	3	0.2	2551.498	[3092, 2135]	[3059, 3198]	332.185
		3	~ -		[, =====]	[,]	332.100

Type p	N	λ	k	\bar{N}	90% CI	99% CI	RMSE
ZTOINB0.05	2500	3	0.6	2504.569	[2619, 2535]	[2495, 2364]	135.100
ZTOINB0.05	2500	3	1.0	2504.398	[2317, 2649]	[2504, 2453]	110.597
ZTOINB0.10	500	1	0.2	201447.093	[212, 243]	[351, 1412]	2551017.571
ZTOINB0.10	500	1	0.6	34983.180	[172205, 261]	[518, 231]	133312.191
ZTOINB0.10	500	1	1.0	8868.511	[294, 1438]	[273, 415]	59499.044
ZTOINB0.10	500	2	0.2	64621.316	[359, 331]	[424, 459]	294361.644
ZTOINB0.10	500	2	0.6	981.370	[1045, 503]	[624, 315]	12246.677
ZTOINB0.10	500	2	1.0	532.857	[310, 418]	[515, 479]	163.408
ZTOINB0.10	500	3	0.2	4036.511	[495, 439]	[1295, 599]	91318.762
ZTOINB0.10	500	3	0.6	512.852	[488, 667]	[435, 472]	83.995
ZTOINB0.10	500	3	1.0	508.509	[503, 464]	[486, 574]	63.255
ZTOINB0.10	1500	1	0.2	309378.426	[21389, 1094]	[1582, 2078]	1607967.326
ZTOINB0.10	1500	1	0.6	64156.087	[2590, 966]	[2410, 24121]	571174.598
ZTOINB0.10	1500	1	1.0	3898.643	[1353, 3004]	[689, 1631]	33981.741
ZTOINB0.10	1500	2	0.2	14345.077	[1817, 2459]	[952, 1341]	223186.047
ZTOINB0.10	1500	2	0.6	1538.180	[1455, 1422]	[1671, 1367]	315.387
ZTOINB0.10	1500	2	1.0	1532.341	[1409, 1221]	[1544, 1620]	241.303
ZTOINB0.10	1500	3	0.2	1546.062	[1579, 1302]	[1316, 1449]	291.295
ZTOINB0.10	1500	3	0.6	1508.143	[1358, 1453]	[1432, 1411]	125.302
ZTOINB0.10	1500	3	1.0	1503.643	[1658, 1524]	[1492, 1424]	94.178
ZTOINB0.10	2500	1	0.2	315041.107	[1853, 924019]	[1537, 1589]	1018019.894
ZTOINB0.10	2500	1	0.6	28683.525	[15582, 2436]	[1915, 8223]	270358.248
ZTOINB0.10	2500	1	1.0	3007.509	[1286, 1460]	[2399, 2279]	1990.984
ZTOINB0.10	2500	2	0.2	8760.601	[2717, 1844]	[2571, 2935]	191521.162
ZTOINB0.10	2500	2	0.6	2557.513	[2961, 2004]	[2275, 3092]	380.084
ZTOINB0.10	2500	2	1.0	2531.064	[2574, 3185]	[2185, 2470]	288.324
ZTOINB0.10	2500	3	0.2	2540.395	[2582, 2182]	[2560, 2637]	345.396
ZTOINB0.10	2500	3	0.6	2508.878	[2635, 2472]	[2460, 2258]	150.565
ZTOINB0.10	2500	3	1.0	2500.806	[2706, 2538]	[2494, 2468]	117.482