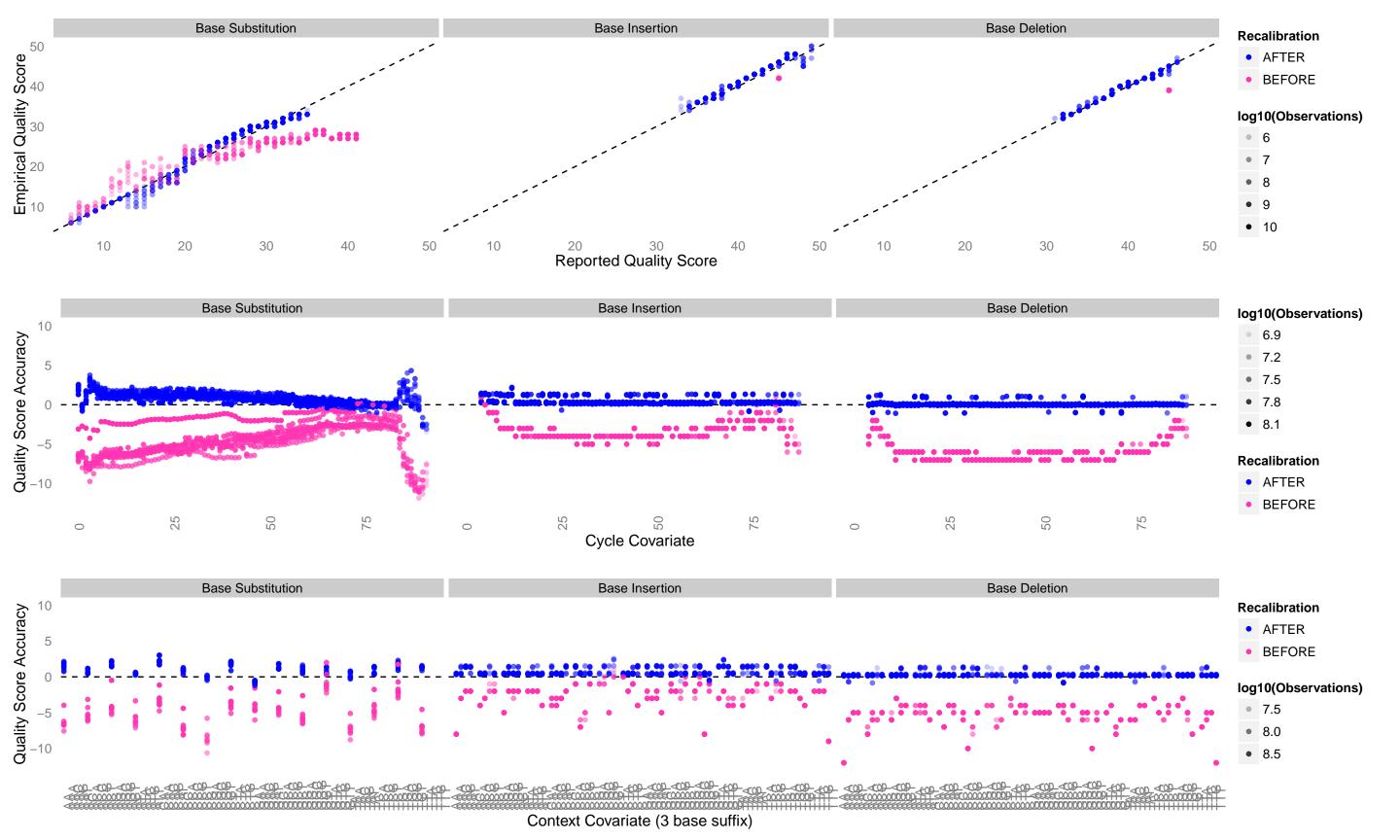
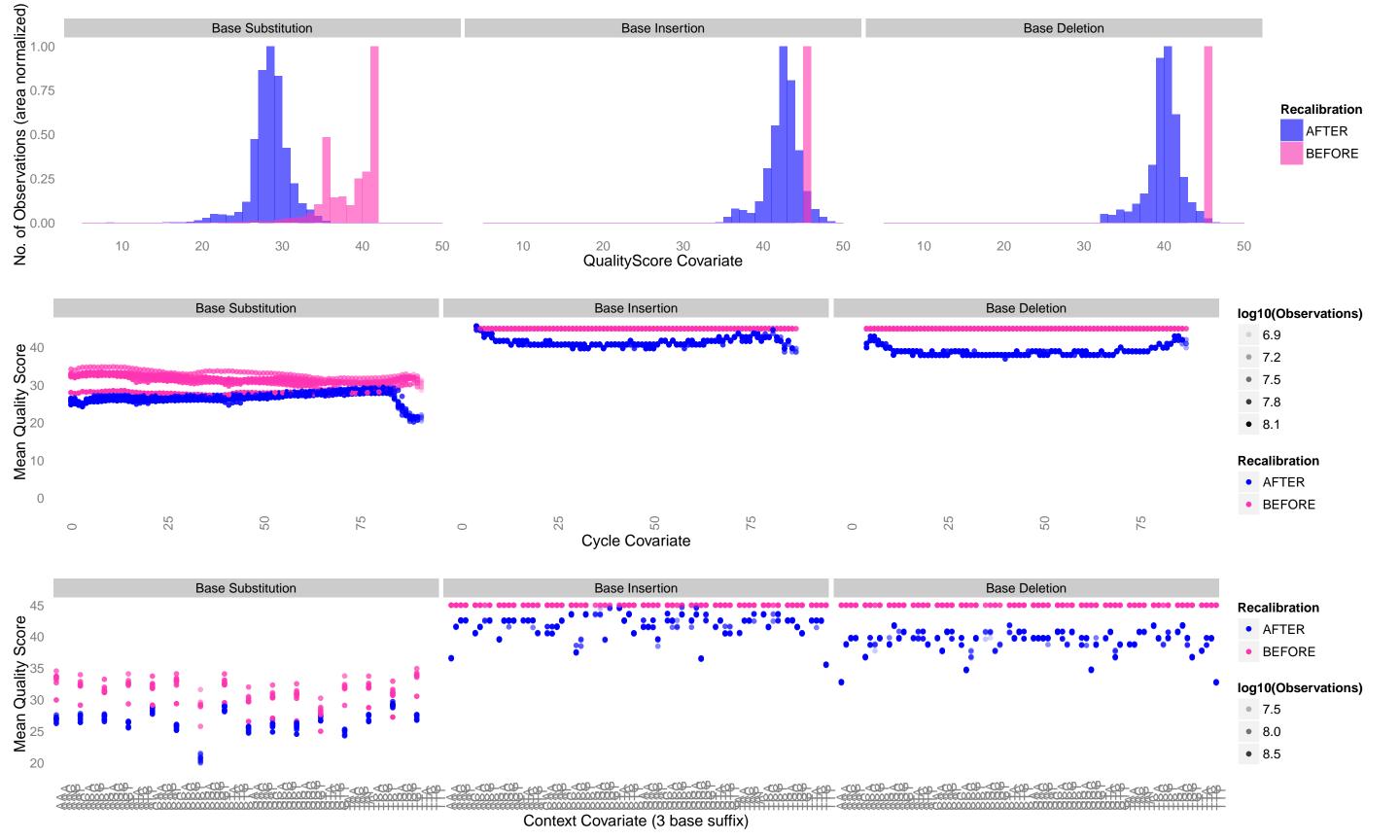
GATK BaseRecalibration report

Argument	Value
binary_tag_name	None
covariate	ReadGroup, QualityScore, Context, Cycle
default_platform	None
deletions_default_quality	45
force_platform	None
indels_context_size	3
insertions_default_quality	45
low_quality_tail	2
maximum_cycle_value	500
mismatches_context_size	2
mismatches_default_quality	—1
no_standard_covs	false
quantizing_levels	16
run_without_dbsnp	false
solid_nocall_strategy	THROW_EXCEPTION
solid_recal_mode	SET_Q_ZERO





Overall error rates by event type

7LYMFP1:291:8	7LYMFP1:291:8	7LYMFP1:291:5	7LYMFP1:291:5	7LYMFP1:291:5	7LYMFP1:291:7	7LYMFP1:291:7	7LYMFP1:291:7	7LYMFP1:291:1	7LYMFP1:291:1	7LYMFP1:291:1	7LYMFP1:291:2	7LYMFP1:291:2	7LYMFP1:291:2	7LYMFP1:291:3	7LYMFP1:291:3	7LYMFP1:291:3	7LYMFP1:291:4	7LYMFP1:291:4	7LYMFP1:291:4	7LYMF
1	D	M	I	D	M	1	D	M	1	D	M	ı	D	M	ı	D	M	1	D	
42.0	39.0	27.0	42.0	39.0	26.0	42.0	39.0	27.0	42.0	39.0	27.0	42.0	39.0	27.0	42.0	39.0	27.0	42.0	39.0	
45.0	45.0	31.3	45.0	45.0	31.2	45.0	45.0	33.1	45.0	45.0	32.0	45.0	45.0	31.4	45.0	45.0	31.6	45.0	45.0	
1.11e+10	1.11e+10	7.62e+09	7.62e+09	7.62e+09	7.05e+09	7.05e+09	7.05e+09	4.51e+09	4.51e+09	4.51e+09	6.21e+09	6.21e+09	6.21e+09	7.27e+09	7.27e+09	7.27e+09	6.46e+09	6.46e+09	6.46e+09	i
7.05e+05	1.36e+06	1.56e+07	5.05e+05	9.17e+05	1.64e+07	4.52e+05	8.67e+05	8.60e+06	2.91e+05	5.40e+05	1.31e+07	4.05e+05	7.43e+05	1.57e+07	4.80e+05	8.79e+05	1.41e+07	4.27e+05	7.92e+05	1

Error rates by event type and initial quality score

71/16FP1:291:8 71/16FP1:291:8	25	ž.	25	57943213 87927921	202769.66
7LYMFP1:291:8 7LYMFP1:291:8 7LYMFP1:291:8	27 28 29	M M M	26 27 26	57940213 83920921 79804251 75145535 123153457	202769.66 219194.07 221559.98 142783.63 311167.93 364689.02 43095.56
7LYMFP1:291:8 7LYMFP1:291:8 7LYMFP1:291:8	30 31 32	M M M	27 27 27	192427597 242171158	364689.02 430095.56 516685.93
7LYMFP1:291:8 7LYMFP1:291:8 7LYMFP1:291:8	34 36	M M	26 27	1648950742	1387465.89 3362382.16
71/MEP1:291:8 71/MEP1:291:8 71/MEP1:291:8	37 38 19	M	28 27 27	605392836 617916356 591846160 980421612 1387132485 2940592364	994380.33 1180947.61 1789384.21
7LYMFP1:291:8 7LYMFP1:291:8 7LYMFP1:291:8	40 41 45	M	27 27 42	1387132485 2940595364 11103511417	2575433.74 5856996.01 704897.89
7LYMFP1:291:8 7LYMFP1:291:5 7LYMFP1:291:5	45 6 7	M M	39 6 10	2040050384 11103511417 11103511417 945273 5157002 5157004 2139867	1364278.44 227086.15 532424.74
7LYMPP1:291:5 7LYMPP1:291:5 7LYMPP1:291:5 7LYMPP1:291:5	10	M M	10 10 11	213594 2135967 3096205 4536751	199480.44 225435.99 37877.43
7LYMFP1:291:5 7LYMFP1:291:5 7LYMFP1:291:5	12 13 14	M M	16 20 15	215/6/07 215/6/07 306/6/05 105/6/05 141/6/13 204/5/6/2 120016/1 447/07/07 208/3321	35622.30 33167.75 39008.83
7LYMFP1:291:5 7LYMFP1:291:5 7LYMFP1:291:5	15 16 17	M M M	19 17 19	4470767 3283321 5149064	54644.92 60627.15 58573.19
7LYMFP1:291:5 7LYMFP1:291:5 7LYMFP1:291:5	18 19 20	M M	17 18 24	2000021 5140064 9120073 4751517 10400015 4000018 8050001 1240048 1551084 20471311 20471311	172302.18 79085.25 40005.95
7LYMFP1:291:5 7LYMFP1:291:5 7LYMFP1:291:5	21 22 23	M M	22 24 24	4360018 8656001 12460488	20548.99 23333.29 48787.71
7LYMFP1:291:5 7LYMFP1:291:5 7LYMFP1:291:5	25 26 27	M M M	23 25 24	20471311 29476793 27454655	92306.95 102039.94 107846.78
7LYMEP1:291:5 7LYMEP1:291:5 7LYMEP1:291:5	28 29 30	M M M	27 26 27	27454055 22436055 2438656 52403087 68186541	49034.41 138783.70 135631.74
7LYMPP1:291:5 7LYMPP1:291:5 7LYMPP1:291:5 7LYMPP1:290:5	31 32 33	M M	20 27 28 27	84432818 102270066 164902053 350178984 1238780689	213552.77 291774.24 719164.00
7LYMFP1:291:5 7LYMFP1:291:5 7LYMFP1:291:5	35 36 37	M M	27 29 29	375160195	2208697.99 460236.08 547643.64
7LYMFP1:291:5 7LYMFP1:291:5 7LYMFP1:291:5	36 39 40	M M M	27 28 28	399148325 272790303 714951341 806463275	493378.42 1220596.11 1313122.07
7LYMFP1:291:5 7LYMFP1:291:5 7LYMFP1:291:5	41 45 45	M E	28 42 39	2791167530 7622857335 7622857335	4819147.44 505067.95 917491.94
7LYMEP1:291:7 7LYMEP1:291:7 7LYMEP1:291:7	7 8	M	10 10	714651341 5 80040375 80040375 97023657335 940001 84170569 940001 94170569 9200577 9200007 94463307 9460007 9460007 9460007 9460007 9460007 9460007 9460007 9460007 9460007 9460007	484311.40 577410.72 224365.60
7LYMFP1:291:7 7LYMFP1:291:7 7LYMFP1:291:7	10 11 12	M M M	11 15 16	3222882 1445701 1358277	280394.11 45455.40 34294.17
7LYMEP1:291:7 7LYMEP1:291:7 7LYMEP1:291:7	13 14 15	M M M	20 15 18	3189287 1201999 4317308	34811.36 36918.25 61171.07
7LYMPP1:291:7 7LYMPP1:291:7 7LYMPP1:291:7 7LYMPP1:290:7	16 17 18	M M	17 18 17	4745267 8191622 4107805	73594.54 172028.65 73661.10
7LYMEP1:291:7 7LYMEP1:291:7 7LYMEP1:291:7	20 21 22	M M	24 22 24	474/25/27 81916/22 41(02855 8000027 30775381 718/0387 11190416 13276204 17508000 25(58151 22)14/288 2016/27/20	37458.85 26518.76 33020.29
7LYMFP1:291:7 7LYMFP1:291:7 7LYMFP1:291:7	23 24 25	M M M	24 23 23	11199416 13576924 17508800	49309.67 72974.65 90655.81
7LYMFP1:291:7 7LYMFP1:291:7 7LYMFP1:291:7	26 27 28	M M	24 23 26	25150151 23142888 20166230	98343.99 105687.97 45786.18
7LYMFP1:29:7 7LYMFP1:29:7 7LYMFP1:29:7	29 30 31 32	M M M	25 26 26 28	20166230 30237866 57560357 69715254 79528543 134872644	130811.02 185066.66 194965.69
7LYMFP1:291:7 7LYMFP1:291:7 7LYMFP1:291:7	23 24 25	M M M	27 26 27	273245869 1226120849	276174.56 684333.38 2553816.51
/LYMFP1:291:7 7LYMFP1:291:7 7LYMFP1:291:7 7LYMFP1:291:7	36 37 38	M M M	29 28 27	356286052	501722.16 558936.46 522564.20
7LYMPP1:291:7 7LYMPP1:291:7 7LYMPP1:291:7	40 41	M.	27 27 27	720936852 2656529120	1333302.96 5202963.46
7LYMFP1:291:7 7LYMFP1:291:1 7LYMFP1:291:1	45 6 7	M M	39 7 9	7051882398 302593 1627478	867184.18 65483.93 186884.36
7LYMFP1:291:1 7LYMFP1:291:1 7LYMFP1:291:1	8 10	M M	9 10 12	2001 (ICAS) 2001 (1000000000000000000000000000000000000
/LYMFP1:291:1 7LYMFP1:291:1 7LYMFP1:291:1 7LYMFP1:291:1	11 12 13	M M	17 16 20	545642 528913 1126891	11268.41 14600.22 11768.15
7LYMFP1:291:1 7LYMFP1:291:1 7LYMFP1:291:1	15 16 17	M M M	19 17 20	1667136 1103805 1739184	21722.73 23130.63 17827.71
7LYMFP1:291:1 7LYMFP1:291:1 7LYMFP1:291:1	18 19 20	M M M	16 16 23	2771468 1468686 3200676	74909.28 39243.51 17290.29
7LYMFP1:291:1 7LYMFP1:291:1 7LYMFP1:291:1	21 22 23	M M	21 23 23	1373316 2595810 4015865	11667.26 14419.13 20928.58
7LYMFP1:291:1 7LYMFP1:291:1 7LYMFP1:291:1 7LYMFP1:294:1	26 26 27	M M	22 22 22	637834 6378512 8277204 8885011	30135.31 49410.39 45893.78
7LYMFP1:291:1 7LYMFP1:291:1 7LYMFP1:291:1	26 29 30	M M	26 24 27	6996128 13753048 21844268	17902.13 54895.02 48854.60
7LYMFP1:291:1 7LYMFP1:291:1 7LYMFP1:291:1	31 32 33	M M M	25 26 27	13753048 21844268 25477994 30054654 57189400 114715052	76552.65 76244.20 109745.72
7LYMFP1:291:1 7LYMFP1:291:1 7LYMFP1:291:1	34 35 36	M M	26 28 29	114715252 898128791 229629795	284229.78 1579893.21 260651.02
7LYMFP1:291:1 7LYMFP1:291:1 7LYMFP1:291:1 7LYMFP1:290-1	37 38 39 40	M M	27 27 28	242337782 105486285 420271773 265621018	203724.97 678332.86 641712.25
7LYMFP1:291:1 7LYMFP1:291:1 7LYMFP1:291:1	41 45 45	M I D	28 42 29	105-80415 400271773 3 407715129 400715129 450055913 450055913 664370 2274355 2644617 1654367 2377288 11773420 1023557	3209314.71 290952.45 540398.67
7LYMFP1:291:2 7LYMFP1:291:2 7LYMFP1:291:2	6 7 8	M M M	6 8 9	644370 3274355 3544817	170541.22 480137.35 465716.23
7LYMFP1:291:2 7LYMFP1:291:2 7LYMFP1:291:2	10	M M	10 13	1654367 2373088 1173420	194785.74 240618.96 54614.55
7LYMFP1:291:2 7LYMFP1:291:2 7LYMFP1:291:2	13 14 15	M M M	18 14 17	100002327 1862365 31126579 2061734 2061734 2060719 2060719 2060718 6072552 2703978 2704978 2704978 1246566 6112864 1246566 6112864 14266660 1470864 1406660 26077469	39525.63 32372.98 58892.94
7LYMFP1:291:2 7LYMFP1:291:2 7LYMFP1:291:2	16 17 18	M M M	16 17 16	2351734 3414727 5605719	57909.05 68011.57 149906.20
7LYMFP1:291:2 7LYMFP1:291:2 7LYMFP1:291:2 7LYMFP1:291:2	19 20 21	M M	17 23 21	2893188 6272552 2703874	63805.55 32560.15 21779.82
7LYMFP1:291:2 7LYMFP1:291:2 7LYMFP1:291:2 7LYMFP1:291:2	23 24 25	M M	23 22 22 22	7844595 9515881 12345906	20200.15 21779.82 26445.02 26455.22 26270.72 26270.72 26270.72 26270.72 26270.72 26270.40 26142.38 26072.27 122662.39 407607.21 22266.89 467607.21 2076662.39
7LYMFP1:291:2 7LYMFP1:291:2 7LYMFP1:291:2	26 27 28	M M M	23 23 26	16753984 16691068 14299850	78744.55 85388.33 33204.40
7LYMFP1:291:2 7LYMFP1:291:2 7LYMFP1:291:2	29 30 31	M M	25 27 26	40380622	95143.38 90573.71 132469.14
7LYMFP1:291:2 7LYMFP1:291:2 7LYMFP1:291:2 7LYMFP1:291:2	32 34 36	M M	26 27 26 27	48208047 56378817 99470703 197911593 1152527027	186668.89 487607.21 2078682.39
7LYMFP1:291:2 7LYMFP1:291:2 7LYMFP1:291:2	36 37 38	M M M	29 29 27	320440238 334643647 187017205	379771-199 437824-72 351545-63 912716-96 800027-87 400455-27 742831-35 190116-97 461732-06 600026-49 3018000-4 46647-27 34624-19 38600-24
7LYMFP1:291:2 7LYMFP1:291:2 7LYMFP1:291:2	39 40 41	M M	28 28 28	556965651 50077285 2467743168 6214948294 6214948294 6214948294 5139913 2743945 3460666 1413841 1223388 1226666	912718.96 990327.87 4277250.39
7LYMPP1:291:2 7LYMPP1:291:2 7LYMPP1:291:3 7LYMPP1:291:3	45 6 7	, M	42 39 7	6214948394 6214948394 854337 4208918	742831.35 190118.97 461732.06
7LYMPP1:291:3 7LYMPP1:291:3 7LYMPP1:291:3	8 9	M M M	9 10 10	5131013 2743346 3490856	639036.49 301870.38 337990.41
7LYMFP1:291:3 7LYMFP1:291:3 7LYMFP1:291:3	11 12 13	M M M	15 16 19	1413841 1313984 3225338	46847.27 34934.19 38600.24
7LYMFP1:291:3 7LYMFP1:291:3 7LYMFP1:291:3	14 15 16	M M	15 17 16	1216686 4452143 3666589	36592.21 81931.04 98516.92
7LYMFP1:291:3 7LYMFP1:291:3 7LYMFP1:291:3	16 19 20	M M M	16 17 24	3225338 1216586 4452143 3666589 4608574 7776510 3658539 8168253	38500.24 36592.21 81931.04 98516.92 97826.79 174896.98 79600.75 34662.08
7LYMFP1:291:3 7LYMFP1:291:3 7LYMFP1:291:3	21 22 23	M M	21 24 23	3810446 7449493 10676658	27072.98 32630.40 50573.41
7LYMFP1:201:3 7LYMFP1:201:3 7LYMFP1:201:3 7LYMFP1:201:3	24 25 26 27	M M M	22 23 24 29	13190306 16690389 22556650 22477779	78116.62 92189.54 96094.51 107053.50
7LYMFP1:291:3 7LYMFP1:291:3 7LYMFP1:291:3	26 29 30	M M M	27 25 26	6160253 2010446 7440463 10070258 13190306 1600666 22250550 22477772 16005194 34547359 52050356	34862.08 27072.98 32630.40 55572.41 78116.62 92185.54 96094.51 107053.50 42254.08 115390.99 120044.97 160074.92
7LYMFP1:291:3 7LYMFP1:291:3 7LYMFP1:291:3	21 32 23	M M M	26 26 27	70357166 119187738	162074.22 167018.42 227942.56
1278991:2013 7128991:2013 7128991:2013 7128991:2013	34 35 36	M M	26 27 29	1356205330	120044.97 160074.22 167018.42 227942.56 536308.84 2494404.25 464665.27 534336.72 444674.82
7LYMFP1:291:3 7LYMFP1:291:3 7LYMFP1:291:3	36 38 39 40	M M M	27 27 28 28		444074.82 1097756.31 1172616.20
7LYMFP1:291:3 7LYMFP1:291:3 7LYMFP1:291:3	41 45 45	M 1	28 42 39	2805065154 7273792073 7273792073	4942357.11 480247.32 879076.86
/LYMFP1:291:4 7LYMFP1:291:4 7LYMFP1:291:4 7LYMFP1:291:4	6 7 8	M M	6 8 9	733637 3720616 4167561	190597.63 558982.92 552573.43
7LYMFP1:291:4 7LYMFP1:291:4 7LYMFP1:291:4	10 11 12	M M	11 14 14	2650662 1322209 1150710	201652.82 49837.52 49549.92
7LYMFP1:291:4 7LYMFP1:291:4 7LYMFP1:291:4	13 14 15	M M M	17 14 17	2837816 1013455 3686528	54964.45 37797.69 73555.14
-LTMPP12014 7LYMPP12014 7LYMPP12014 7LYMPP12014	16 17 18	M M	16 18 16	2760016 3811319 6252702	67497.58 57558.05 145943.47
7LYMFP1:291:4 7LYMFP1:291:4 7LYMFP1:291:4	19 20 21 22	M M M	2/ 21 23	6932173 3098854 6138019	39793.87 25295.16 30860.29
7LYMFP1:291:4 7LYMFP1:291:4 7LYMFP1:291:4	23 24 25	M M	23 22 22 22	8834042 10763213 13812567	45750.64 67877.44 79673.34
/LYMFP1:291:4 7LYMFP1:291:4 7LYMFP1:291:4 7LYMFP1:291:4	26 27 28	M M M	23 23 26	18813082 18592813 16170827	89258.31 87799.86 39019.62
7LYMFP1:291:4 7LYMFP1:291:4 7LYMFP1:291:4	29 30 31 32	M M M	25 26 26 28	44672593 52045694 61436385	103444.64 142871.72 145638.98
7LYMFP1:291:4 7LYMFP1:291:4 7LYMFP1:291:4	23 24 25	M M M	27 26 27	105194530 205482520 1195243141	205858.42 486048.02 2215132.39
/LYMFP1:291:4 7LYMFP1:291:4 7LYMFP1:291:4 7LYMFP1:291:4	36 37 38	M M M	29 29 27	338226960 352444713 198895514 50308****	419348.82 484658.53 383966.43
7LYMFP1:291:4 7LYMFP1:291:4 7LYMFP1:291:4	40 41 45	M M	28 28 27 49	628679041 2515946277 6464472410	1066123.72 4504281.59 426802.75
7LYMFP1:291:4 7LYMFP1:291:6 7LYMFP1:291:6	45 6 7	D M M	39 6 9	6464472432 1029618 4845307	792095.58 243563.99 619174.32
7LYMFP1:291:6 7LYMFP1:291:6 7LYMFP1:291:6	8 10	M M	8 9 10	5095286 3260581 3803887	854499.46 407655.91 362554.60
12788191:201:6 71298791:201:6 71298791:201:6 71298791:201-6	11 12 13	M M M	15 14 16	1610116 1539893 3612926 1439451	51453.10 56705.50 86270.12 61160.75
				Section 19 - 19 - 19 - 19 - 19 - 19 - 19 - 19	Section 2 Sect
7LYMFP1:291:6 7LYMFP1:291:6 7LYMFP1:291:6	18 19 20	M M M	17 16 23	8464379 4215415 8651737	181082.09 96146.88 44844.42
7LYMFP1:201:6 7LYMFP1:201:6 7LYMFP1:201:6	21 22 23	M M	21 22 22	4009273 8145971 11570269	36731.72 46562.53 71666.00