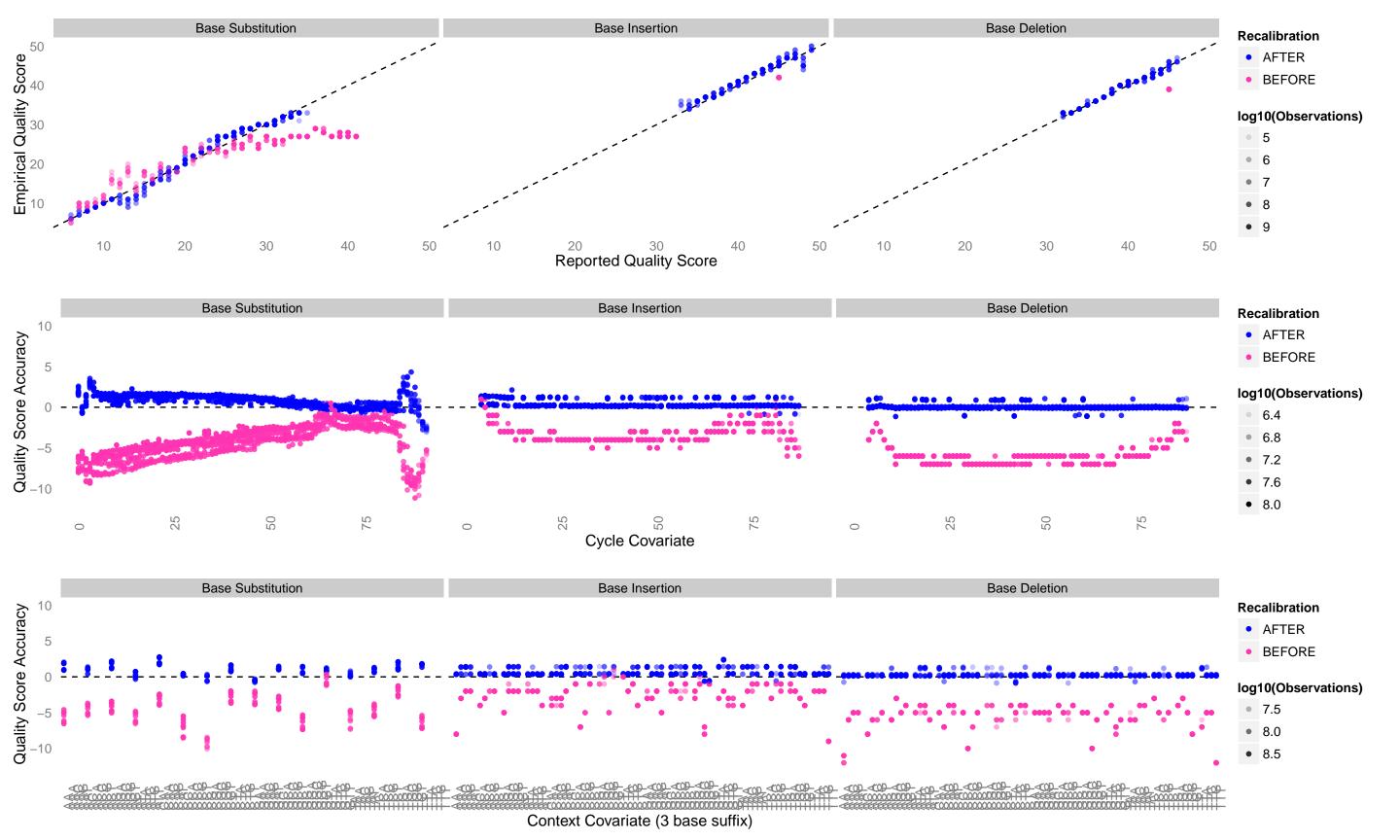
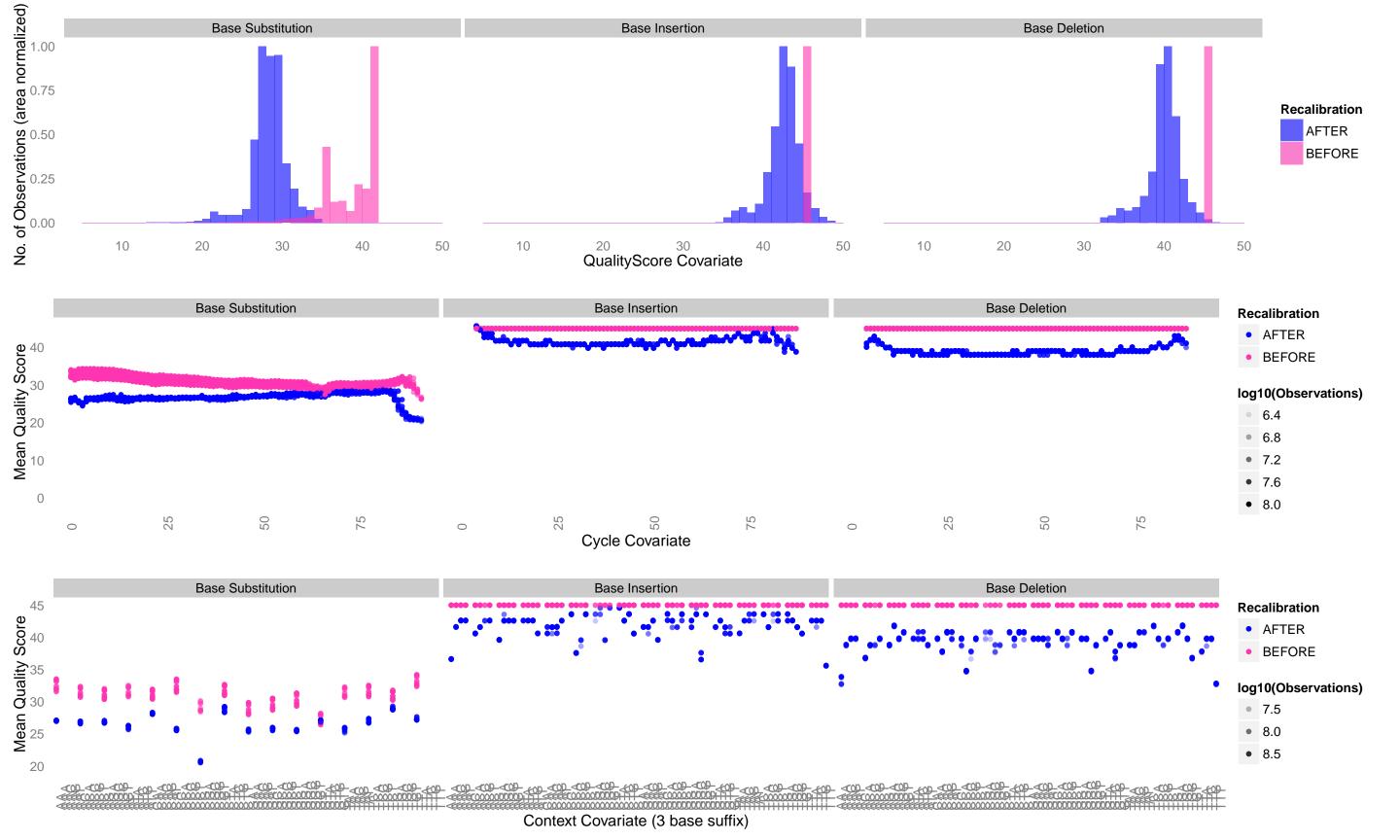
GATK BaseRecalibration report

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

7LYMFP1:386:4	7LYMFP1:386:4	7LYMFP1:386:1	7LYMFP1:386:1	7LYMFP1:386:1	7LYMFP1:386:3	7LYMFP1:386:3	7LYMFP1:386:3	7LYMFP1:386:5	7LYMFP1:386:5	7LYMFP1:386:5	7LYMFP1:386:2	7LYMFP1:386:2	7LYMFP1:386:2	7LYMFP1:386:6	7LYMFP1:386:6	7LYMFP1:386:6	7LYMFP1:386:7	7LYMFP1:386:7	7LYMFP1:386:7	7LYMF
1	D	M	1	D	M	I	D	M	1	D	M	1	D	M	l I	D	M	I	D	
42.0	39.0	26.0	42.0	39.0	26.0	42.0	39.0	26.0	42.0	39.0	26.0	42.0	39.0	26.0	42.0	39.0	26.0	42.0	39.0	
45.0	45.0	30.2	45.0	45.0	30.2	45.0	45.0	29.9	45.0	45.0	31.3	45.0	45.0	31.6	45.0	45.0	31.6	45.0	45.0	
6.83e+09	6.83e+09	7.40e+09	7.40e+09	7.40e+09	7.52e+09	7.52e+09	7.52e+09	8.33e+09	8.33e+09	8.33e+09	5.74e+09	5.74e+09	5.74e+09	4.59e+09	4.59e+09	4.59e+09	4.61e+09	4.61e+09	4.61e+09	4
6.83e+09 4.40e+05	8.17e+05	1.74e+07	4.80e+05	8.94e+05	1.74e+07	4.82e+05	9.04e+05	1.92e+07	5.29e+05	1.00e+06	1.29e+07	3.65e+05	7.01e+05	1.09e+07	2.94e+05	5.59e+05	1.08e+07	2.97e+05	5.74e+05	\$

Error rates by event type and initial quality score

75/MFP1:386-7	2	ü	23	21079026	113542.04 87338.27 83999.26
TAMMP 1-38864 TAMMP 1-38864 TAMMP 1-3864				21879026 28199551 24744540 21423249 44232243	87338.27 83999.26 43277.09
7LYMFP13864 7LYMFP13864 7LYMFP13864	30 31	ii ii	27 27 25	71511897	123400.82 205118.51
7LYMFP13864 7LYMFP13864 7LYMFP13864 7LYMFP13864	22 24	ii ii	27 27 27	80841223 121785191 240494901 1213880302	87.38.27 8.3993.26 4.3277.04 9.5997.04 12.3490.82 26.511.53 94.775.50 94.775.50 20.323.23 4.323.23 2.3920.5.53 4.3726.50 4.8729.5.65
7LYMFP1:386:4 7LYMFP1:386:4 7LYMFP1:386:4	36 37 38	M M	29 29 27	334188650 345894665 189274567	417826.03 488291.56 346220.56
7LYMFP1:386:4 7LYMFP1:386:4 7LYMFP1:386:4	39 40 41	M	28 28 27	602166677 536090511 2787142178	488291.56 346220.56 9053159.58 924952.90 5160726.24
	48	D.	42 39 6	6831245092 6831245092 1445266	5900778.24 439903.90 865249.85 403 564.14 877339.25 782484.29 28651.67 20073.64 73162.22 73465.50
7LYMFP13861 7LYMFP13861 7LYMFP13861	8		10	7092365 6981508 3111506 4255336	782484 29 258631 67
7CYMPP 1486-1 7CYMPP 1486-1	11 12 13	ii	16 15	2426597 2116092 4581750	60679.64 73162.52 73466.50
7LYMFP1:386:1 7LYMFP1:386:1 7LYMFP1:386:1	56 15 16	M M	14 18 17	1637501 5765935 4651171	67801.88 94347.30 91334.34
7LYMFP1:386:1 7LYMFP1:386:1 7LYMFP1:386:1	17 18 19	M	20 19 19	6407916 11959221 6305952	64661.00 166563.24 84595.63
TAMES 1886 1 TAMES 1 TAMES 1886 1 TAMES 1886 1 TAMES 1886 1 TAMES 1886 1 TAMES	20 21 22	M	23 22 24	2448597 2116902 4581720 6581720 66772035 4651171 647726 11050222 12223582 9558700 6331163 1072161 1072161 1072161 1072161 1072161 1072161 1072161 1072161 1072161 1072161	79465.50 6701.18.2 94131.34 64061.50 96061.30 96061.30 96061.30 96444.60 3952.18 44662.71 44662.71 74875.55 13002.20 96070.31 96070.31
7LYMFP13861 7LYMFP13861 7LYMFP13861	24 25		24 24 23	18791919 26028549	74875.55 130032.23
7LYMFP1:306:1 7LYMFP1:306:1 7LYMFP1:306:1	27 28 29	ii	25 27 25	29741777 26352560 52271721	96700.31 54502.29 185083.15
7LYMEP1386:1 7LYMEP1386:1 7LYMEP1386:1	30 31 32	ii	27 26 36	26352560 5227721 7225110 8455452 9523382 14022116 27235128 35277710 36138034 37477508 22384902 66139377	54002.29 185083.15 146778.05 222993.63 221996.82 269948.77 558812.16 3440345.08
7LYMFP1:386:1 7LYMFP1:386:1 7LYMFP1:386:1	33 34 25	M M	27 27 27	140029116 273251238 1252747719	269918.77 518812.16 2446216.98
7LYMEP1:386:1 7LYMEP1:386:1 7LYMEP1:386:1	36 37 38	M	29 28 27	361388034 374079088 223884992	2446216.98 477393.08 550065.64 421209.85 1206359.91 9377700.52 5643743.65 479700.22
TOWN 19 - 20 - 10 - 10 - 10 - 10 - 10 - 10 - 10	39 40 41	ii.	27 28 27	223884992 665126397 605434973 2945850025 7395237119 7395237119 1448206 6915229	1206359.91 1077760.52 5643741.65
7LYMFP1386:1 7LYMFP1386:3 7LYMFP1386:3	45	, de la companya de l	29	7395237119 1418265 6015020	893843.57 376785.46 348815.60
7LYMFP13863 7LYMFP13863 7LYMFP13863	9 90	M	9 10	70015829 7001764 3195274 4377845 2353238	BISH 0.57 ST 1981 AL 197 ST 1981 AL 197 ST 1981 AL 197 ST 1981 AL 1981
7LYMEP 13863 7LYMEP 13863 7LYMEP 13863	11 12 13	ii ii	16 15	2353238 2040779 4432297	62185.30 63748.85 53516.18
7LYMFP1:386:3 7LYMFP1:386:3 7LYMFP1:386:3	14 15 16	M	14 18 16	2040779 4432297 1616131 5837005 4732381 6559361	59054.15 102925.30 124626.95
7LYMEP1:386:3 7LYMEP1:386:3 7LYMEP1:386:3	17 18 19	M	19 18 19	6559361 12023065 6410140	90004.08 188728.71 85010.42
7LYMFP13863 7LYMFP13863 7LYMFP13863	20 21 22	M	24 22 24	12023065 6410140 12242205 5640843 10247330 15622245	53042.55 37171.53 38781.56
7LYMFP13863 7LYMFP13863	26		24 24 23	1982234 26355177 34306301 30009790 26374615 52775091	75660.53 134408.93
7LYMFP13863 7LYMFP13863 7LYMFP13863	20 27 28	M M	24 27	30009790 26074615	109300.04 109300.04 50886.71
7LYMFP13863 7LYMFP13863 7LYMFP13863	30 31 32	ii	27 26 36	72/95/91 72/85/827 84596369 95338420 141904618 227577832 1210459364	140004.41 23722.36 26198.19 26198.19 2772.81 47123.24 50012.16 10022.16 10022.16 60027.16 60027.16 60027.16 60027.16 60027.16 60027.16 60027.16 60027.16 60027.16 60027.16
7LYMFP13863 7LYMFP13863 7LYMFP13863	33 36 35	M	27 27 27	141904618 277577832 1310459364	264198.19 522723.91 2499640.14
7LYMFP13863 7LYMFP13863 7LYMFP13863	36 37 38		29 28 27	309246830 382372658 224478342 675567177	471124.24 550532.16 415624.40
7LYMFP13863 7LYMFP13863 7LYMFP13863	39 40 41	M	28 28 27	607074922	1198883.97 1055945.01 5560420.20
7LYMFP1:386:3 7LYMFP1:386:3 7LYMFP1:386:5	45	, de	42 29 6	7520450202 7520450202 1673265	482079.68 904271.96 428026.55
7LYMFP1:386:5 7LYMFP1:386:5 7LYMFP1:386:5	á	M	10 10 10	8158521 8717515 4348166	853305.13 966177.63 371750.50
TOWN 9 - 10 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	10 11 12		11 16 16	7530450302 1673265 8158521 8717515 4048166 5469229 2719442 2458688 5501449 1988353	438527.38 69837.78 68519.08
7LYMFP13865 7LYMFP13865 7LYMFP13865	54 15	ii ii	15 18	1988353 6976946 5805931	68510.08 68541.09 68541.00 685
7LYMFP13865 7LYMFP13865 7LYMFP13865	17 18	M	19	7967028 14346469 7535789	104207.21 206094.22 97118.07
7LYMFP13865 7LYMFP13865 7LYMFP13865	20 21 22	ii ii	24 22 25	15360185 6862110 12654941	59636.18 42109.88 43981.59
7LYMFP1:386:5 7LYMFP1:386:5 7LYMFP1:386:5	23 24 25	M	24 24 23	19883253 6070646 7967028 14344696 7525789 15300165 6862315 6862315 12547062 22541731 20062302 2154731 20062302 2154731 20062302 2154731 20062302 2154731	69401.64 85000.08 149376.62
7LYMEP1:386:5 7LYMEP1:386:5 7LYMEP1:386:5	26 27 28	M	26 25 27	41142911 35983282 32094893	109116.31 117036.33 59171.95
7LYMFP1386.5 7LYMFP1386.5 7LYMFP1386.5	29 30 31	M	25 27 26	61971506 87096382 99340540 114068137	204094.78 172550.40 262626.22
7LYMFP1386.5 7LYMFP1386.5 7LYMFP1386.5	32 33 34	M	26 27 27	11-4068137 165992162 316847893 1400116057 400992930	17,250,40 26,026,62 25,0510,78 299773,40 580077.50 25,50379,80 53,0513,49
7LYMFP13865 7LYMFP13865 7LYMFP13865	ž	M M	27 29 28	406992930 424805074	513513.49 605558.00
7LYMEP 1386.5 7LYMEP 1386.5 7LYMEP 1386.5	20 40 41	ii	27 28 27	800544638 697525760 2184280290	605558.08 492396.03 1423496.45 1187477.27 584556.48 522223.70 1000700.29 222371.50
ACMITY 2005 200 200 200 200 200 200 200 200 20	45		42 39 5	00/525/00 3184280292 8225588794 8225588794 810888 2895529 3093445	529223.70 1000700.29 229371.50
7LYMFP13862 7LYMFP13862 7LYMFP13862	7 8 9		9 9 10	3990539 3693445 1623459	
7LYMFP13862 7LYMFP13862 7LYMFP13862	10 11 12	ii ii	12 17	3093445 6023459 2189239 1233508 1211515 2403792 930249 3225536	173419.00 173419.00 138071.00 29011.46 40005.00
7LYMFP13862 7LYMFP13862 7LYMFP13862	13 94 15	M	18 13 17	2493792 930249 3525536	45523.59
7LYMFP1:386:2 7LYMFP1:386:2 7LYMFP1:386:2	16 17 18	M M	16 20 18	2556334 3767973 7022294	65755.10 38575.68 105945.90 58825.66
7LYMFP13862 7LYMFP13862 7LYMFP13862	20 21	ii ii	23 21	30.50.50 30.707973 7022294 3022000 81002311 31073244 45 4777234 11408023 16140802 17941117 20056417 20144455 44315288 54425280 54525280 54	58825.66 27833.10 24681.50 25245.28 41134.73 48021.34 60227.84 60227.84 6000.60 22586.69 34473.20 85433.60 86627.30 86627.30
7LYMFP13862 7LYMFP13862 7LYMFP13862	23 24 25	M	24 24 23	9477334 11408893 16140887	41134.73 49921.39 89444.24
7LYMFP13862 7LYMFP13862 7LYMFP13862	26 27 28		25 25 27	20056475 17941115 15331157	65237.81 63093.60 32596.69
7LYMFP13862 7LYMFP13862 7LYMFP13862	29 30 31	M	24 27 25	33148436 44315288 53402410	134873.20 95430.95 166572.80
7LYMFP13862 7LYMFP13862 7LYMFP13862	20	M M	26 27 27	92997743	96577.20 154890.29 180220.00 367902.19 2070328.22 202086.51 422538.37 266096.33 867932.00 791306.45 4711522.22 264967.20
7LYMFP13862 7LYMFP13862 7LYMFP13862	26 27	ii ii	27 29 28	186799800 1048017043 279813872 289730922	359268.51 423538.37
7LYMFP13862 7LYMFP13862 7LYMFP13862	29 40 41	ii ii	28 27 27	138523759 487332283 424714205 2455198519	867632.09 761206.45 4711522.32
TAMPP 3862 TAMPP 3862 TAMPP 3864 TAMPP 3864 TAMPP 3866	45	, d	42 29 5	2455198519 5741129231 5741129231 626794 2234853 2758511 1149097	364967-20 700753-18 191314-14 282302-24 275301-99 130136-07
7LYMFP1:386:6 7LYMFP1:386:6 7LYMFP1:386:6	7 8 9	M	9 9	2934953 2758511 1149097	380302.34 375301.99 130136.07
7LYMFP1:386:6 7LYMFP1:386:6 7LYMFP1:386:6	10 11 12	M	10 15 14	1687855 1058244 1018221 1863925	154530.66 32950.62 37246.06
7LYMFP13866 7LYMFP13866 7LYMFP13866	14 15	ii ii	12 12	667207 2592541	34749.27 55317.09
7LYMFP1:386-6 7LYMFP1:386-6 7LYMFP1:386-6	17 18 19	M M	17 17 18	186,225 667,237 29,2541 185,4329 272,3118 51,348,34 28,2199 6169119 2,397,852 4,197,90 70,305,94	130136.07 154231.66 22920.62 27246.66 38920.16 34742.27 55317.09 6286.40 48528.09 4440.38 30713.56 2288.68
7LYMFP1:386:6 7LYMFP1:386:6 7LYMFP1:386:6	20 21 22	M	23 20 22	6169119 2397852 4219790	30713.56 22393.68 22394.98 32785.73 39716.80
7LYMFP1:386:6 7LYMFP1:386:6 7LYMFP1:386:6	23 24 25	M	23 23 22	7030594 8335631 11870239 6492766	32785.73 39716.80 69985.04 69578.97
TCYMEP 13866	26 27 28	ii.	24 24 26	13183246	53247.70
7LYMFP1:386:6 7LYMFP1:386:6 7LYMFP1:386:6	29 30 31	M M	24 26 25	24272823 32789702 39921997	922650 39 77178.96 134736.61
7LYMFP13866 7LYMFP13866 7LYMFP13866	33	ii ii	27 27	69752278 141261870	143844.17 302163.47
7LYMFP13866 7LYMFP13866 7LYMFP13866			29 28 27	818354194 219987503 230159045 112260924	1655510.97 300825.17 355124.02 229781.88
7LYMFP 1:386-6 7LYMFP 1:386-6 7LYMFP 1:386-6	39 40 41		27 27 27	112200204 433561322 344494173 1905212306 45852230642 45852230642 598060 2850603 2650506 1334034	764773.09 648570.47 2964393.10
7LYMFP1:386:6 7LYMFP1:386:6 7LYMFP1:386:7	45	D M	42 29 5	4585293642 4585293642 598660	294285.42 559425.89 174522.90
7LYMFP1:386:7 7LYMFP1:386:7 7LYMFP1:386:7	ž	M M	10 9 10	2856893 2669566 1134984	332953.97 126863.41
TUMPTIBLE TUMPTIBLE TUMPTIBLE TUMPTIBLE	10 11 12 17	M M M	10 16 15	1000087 1001471 1075006 1792444	130549.70 22340.41 35955.72 38484.00
7LYMFP1:386:7 7LYMFP1:386:7 7LYMFP1:386:7	14 15	M M	17 17	674016 2615431 1888206	35241.79 55267.22 59190.71
7LYMFP1:386.7 7LYMFP1:386.7 7LYMFP1:386.7	17 18 19	M M	18 17 18	2817020 5020032 2849405	50152.88 92053.98 43521.87
72/MFP1:386.7 72/MFP1:386.7 72/MFP1:386.7	20 21 22	M M	24 21 23	6137330 2338586 4162519	26795.82 19121.66 19935.10
7LYMFP1:386.7 7LYMFP1:386.7 7LYMFP1:386.7	23 24 25	M	23 23 23	7060499 8339605 11922506	32597.47 40993.90 63996.44
7LYMFP1:386.7 7LYMFP1:386.7 7LYMFP1:386.7	26 27 28	M	24 24 26	14596858 13299203 10989729	52194.30 54346.25 25828.02
TUMPTIBLE TUMPTIBLE TUMPTIBLE TUMPTIBLE	20 20 21	M M M	24 26 25	24226238 22634643 23631739 4407******	97043.47 75131.71 131123.02 134587.48
7LYMFP1:386:7 7LYMFP1:386:7 7LYMFP1:386:7	2 2 2	i	27 27 27	6999378 141593417 859134940	144667.58 144677.49 225477.49 1737215.85
7LYMFP1:386.7 7LYMFP1:386.7 7LYMFP1:386.7	36 37 39	ii ii	29 28 27	223882574 232953457 105137776	309438.57 368480.53 217776.45
7UMFP1:386.7 7UMFP1:386.7 7UMFP1:386.7	39 40 41	M M	27 27 27	418702302 323206969 1987657866	821037.61 614052.03 4031977.81
7LYMFP1:386.7 7LYMFP1:386.7 7LYMFP1:386.8	45	d M	42 39 6	4611231684 4611231684 610227	297057.68 574077.12 199474.16
7LYMFP1:3868 7LYMFP1:3868 7LYMFP1:3868	7 8 9	M	10 10 10	2925784 2682368 1149009	299590.12 293343.96 106380.43
7LYMFP1:386:8 7LYMFP1:386:8 7LYMFP1:386:8	11 12 19	i	12 18 15	1019156 1053557 1752308	15464.46 31603.00 17637.46
7LYMFP1:386:8 7LYMFP1:386:8 7LYMFP1:386:8	54 15	ii	13	661267 2546414 1762965	30417.75 44992.56 45734.11
7LYMFP1:386:8 7LYMFP1:386:8 7LYMFP1:386:8	17 18 19	M M	19 18 18	11 - 12 - 12 - 12 - 12 - 12 - 12 - 12 -	30248.49 82000.44 42366.77
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