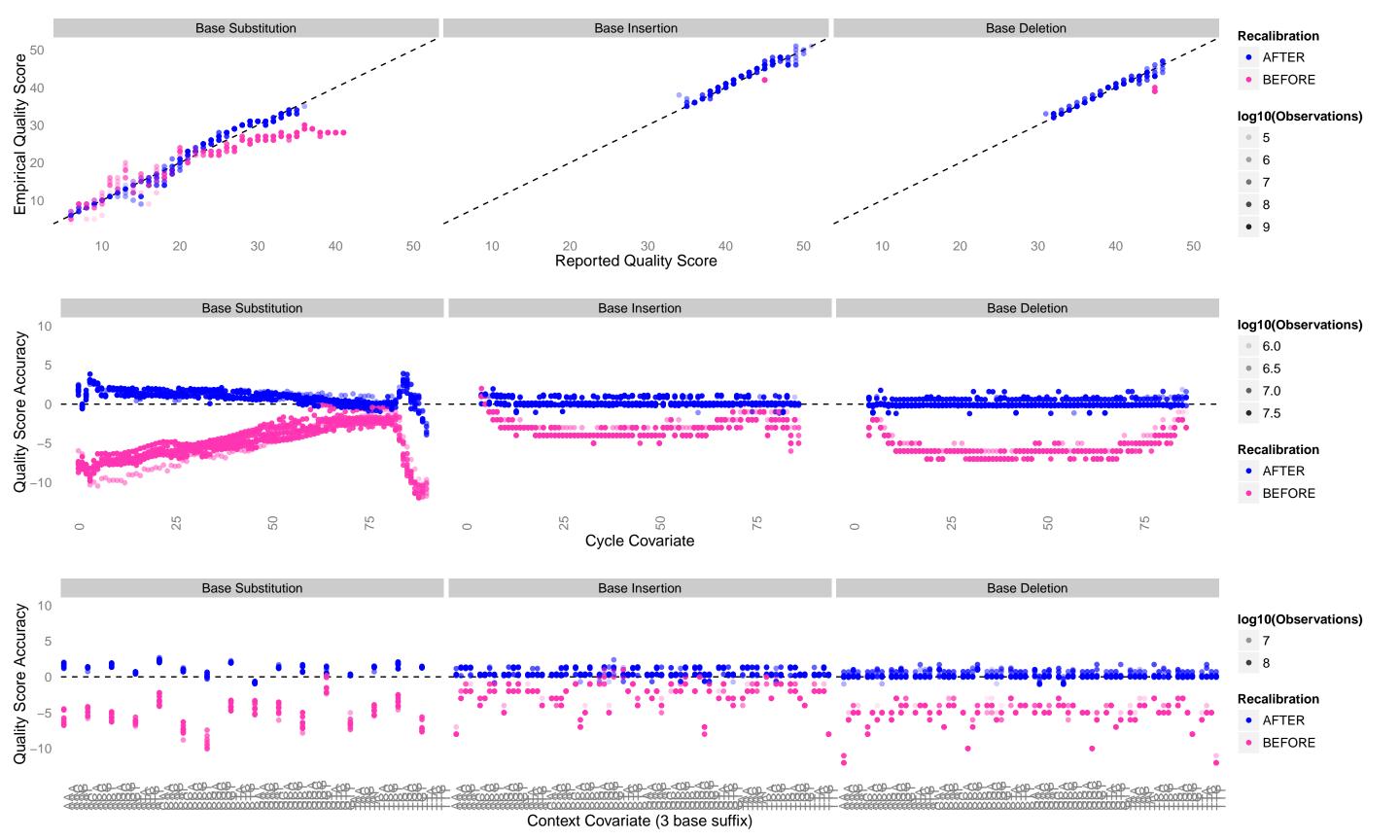
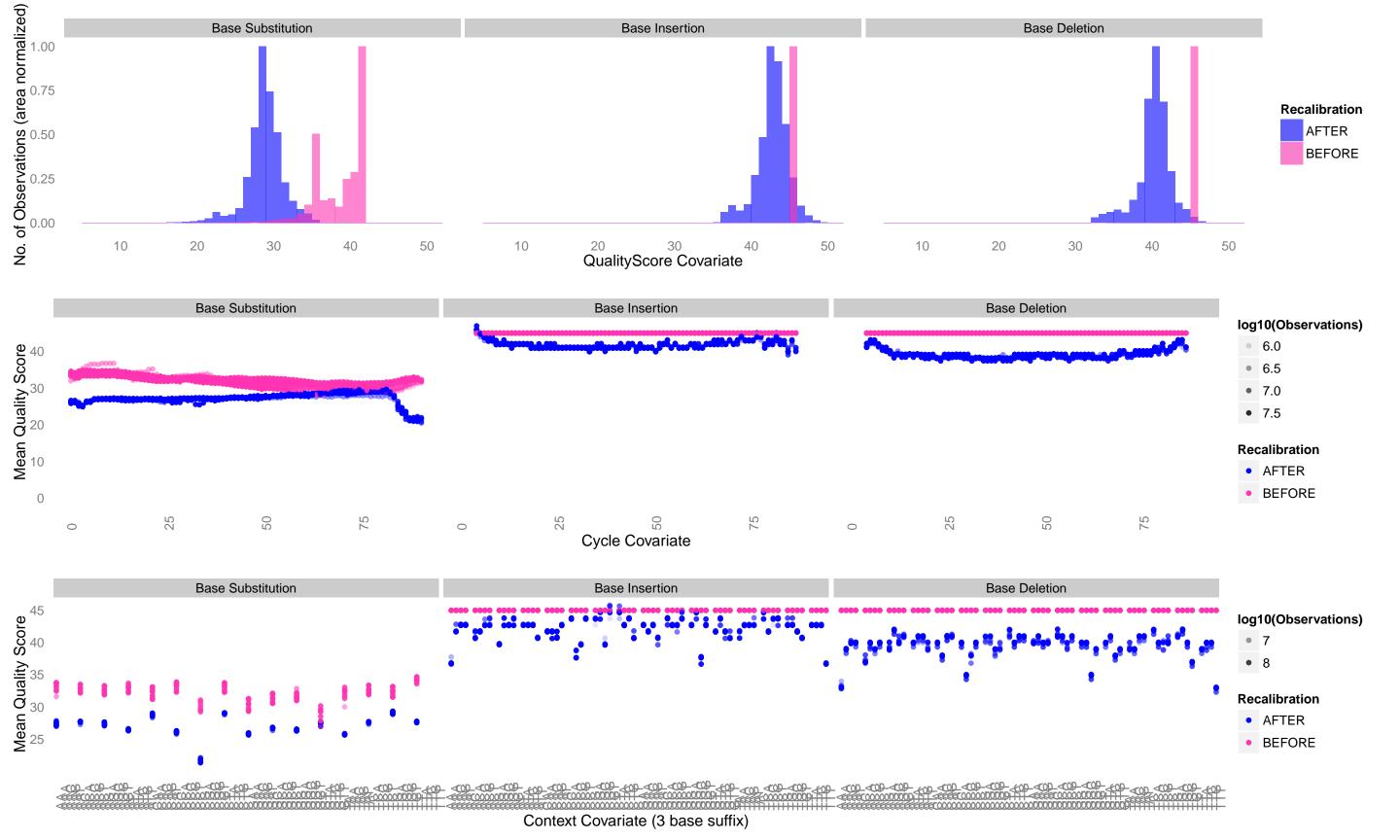
GATK BaseRecalibration report

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

:7	D7LYMFP1:175:6	D7LYMFP1:175:6	D7LYMFP1:175:6	D7LYMFP1:175:3	D7LYMFP1:175:3	D7LYMFP1:175:3	D7LYMFP1:175:1	D7LYMFP1:175:1	D7LYMFP1:175:1	D7LYMFP1:175:2	D7LYMFP1:175:2	D7LYMFP1:175:2	D7LYMFP1:175:4	D7LYMFP1:175:4	D7LYMFP1:175:4	D7LYMFP1:175:5	D7LYMFP1:175
D	M		D	M	ı	D	M	I	D	M	1	D	M	1	D	M	
.0	27.0	42.0	39.0	26.0	42.0	39.0	27.0	42.0	40.0	27.0	42.0	39.0	27.0	42.0	39.0	27.0	42
.0	31.6	45.0	45.0	31.9	45.0	45.0	31.3	45.0	45.0	32.6	45.0	45.0	32.1	45.0	45.0	32.7	45
19	4.72e+09	4.72e+09	4.72e+09	4.30e+08	4.30e+08	4.30e+08	4.85e+09	4.85e+09	4.85e+09	4.72e+09	4.72e+09	4.72e+09	4.77e+09	4.77e+09	4.77e+09	5.01e+09	5.01e+(
15	9 689406	2 960±05	5 520±05	1 010406	2 630+04	5.020+04	1 020407	2 900+05	5 300+05	9.346+06	2 980+05	5 540+05	1 020+07	2 990+05	5 570+05	9 790±06	3 150+(

Error rates by event type and initial quality score

7759MFP1:175:7	25	E	22	12320679	62613.51
770/MFP1:175:7 770/MFP1:175:7 770/MFP1:175:7	27 28 29	M	24 26 36	17096664 17042043 13090806 30833608	68233.69 29914.90 77577.11
7701MFP1:175:7 7701MFP1:175:7	30 31	M	27 27		89992.24 118916.07
7701MFP1:175.7 7701MFP1:175.7	33 34	ii ii	28 27	122263995 265009031	201568.75 534829.96
701MFP1:175:7 701MFP1:175:7	36 37	ä	29 29	205243859 231442871	241244.87 299855.53
77DMFP1:175:7 77DMFP1:175:7 77DMFP1:175:7	39 40 41	M	28 28 28	5709-6270 6231-6756 1222/63965 2850900201 7-40271168 2004-0859 231-442071 188990066 415322469 535723076 880552776	671801.15 844137.08 2876697.32
701MFP1:175:7 0701MFP1:175:7 0701MFP1:175:6	45 45 6	D M	42 39 5	108055/276 4700088778 470008778 661091 2878217 3005059 134005	284495.98 542479.61 189512.04
7701MFP1:175:6 0701MFP1:175:6 0701MFP1:175:6	7 8	M.		2878217 3005059 1340265 1746600	360482.90 398264.79 159734.00
77CYMFP1:175.6 07CYMFP1:175.6 07CYMFP1:175.6	10 11 12	M M	9 14 13	1748000 869460 853661	201955.58 33909.33 39079.77
7/L/1MFP1:175:6 77L/1MFP1:175:6 77L/1MFP1:175:6	13 14 15	M M	18 13 16	869460 853661 1710260 705212 2456157 1784201	28884.77 25339.54 60985.31
77C/MFP1:175:6 07C/MFP1:175:6 07C/MFP1:175:6	16 17 18	M	14 16 17	1784201 2603013 4600115	70515.26 69381.65 101685.18
7721MFP1:175:6 7721MFP1:175:6 7721MFP1:175:6	19 20 21	M M	18 23 20	30030115 3603015 3603015 3603015 3603015 3603015 3603015 3603015 3603015 3603000 36030000 36030000 36030000 36030000 36030000 36030000 36030000 36030000 36030000 360300000 360300000 360300000000	29733.73 26406.78 20717.15
77CHMFP1:175:6 77CHMFP1:175:6 77CHMFP1:175:6	22 23 24	M	23 23 23	4462070 6802932 8141914	20654.56 33365.00 44182.92
77CHMFP1:175:6 27CHMFP1:175:6 27CHMFP1:175:6	25 26 27	M	23 24 24	9662609 14508055 13583926	53718.02 53554.84 59847.58
77C1MFP1:175:6 77C1MFP1:175:6	29 30	i i	26 27	22258707 32625946	61798.27 70904.44
77CHMP1:175:6 27CHMFP1:175:6	32 33	i i	27 27 28	45983042 86429976	91583.58 92963.48 146573.65
7721MFP1:175:6 7721MFP1:175:6	26 26	ii ii	27 28 30	897877396 243027302	1577222.60 270518.36
77LYMEP1:175:6 77LYMEP1:175:6	20 20 20	M	28 28	185463896 448229189	316686.43 308015.88 714835.35
77CYMEP1:175:6 77CYMEP1:175:6 77CYMEP1:175:6	41 45	4	28 42 39	84-60000 8-64-60000 8-64-60000 8-64-60000 8-64-60000 8-64-600000 8-64-60000000000000000000000000000000000	2750030.00 296050.84 551936.60
7701MFP1:175:3 7701MFP1:175:3 7701MFP1:175:3	6	M	1	28574 285331 182727	16087.10 42952.85 52753.64
7701MFP1:175:3 7701MFP1:175:3 7701MFP1:175:3	9 10 11	M	5 6 12	80546 124605 79237	27123.32 29902.01 4642.43
7701MFP1:175:3 7701MFP1:175:3 7701MFP1:175:3	12 13	ii ii	12 16	73930 123649 45178	4700.64 3153.69 3875.61
7701MFP1:175:3 0701MFP1:175:3 0701MFP1:175:3	15 16 17	M M	12 9 12	252006 163852 312725	14395.85 20312.70 17861.33
701MFP1:175:3 7701MFP1:175:3 7701MFP1:175:3	18 19 20	M	15 17 23	495330 302036 582104	14085.64 5572.75 2978.73
7701MFP1:175:3 7701MFP1:175:3 7701MFP1:175:3	21 22 23	M M	20 22 23	159761 335355 558693	1614.27 1817.09 3059.49
701MFP1:175:3 7701MFP1:175:3 7701MFP1:175:3	24 25 26	M.	23 22 24	770703 1162997 1319023	4368.46 6630.78 4865.10
7701MFP1:175:3 7701MFP1:175:3 7701MFP1:175:3	27 28 29	M	24 26 26	1347296 1047321 2826851	5869.55 2411.10 7485.98
701MFP1:175:3 7701MFP1:175:3 7701MFP1:175:3	30 21 32	M	26 27 27	3758223 5033769 5853853	8519.91 11107.41 12495.91
7701MFP1:175:3 7701MFP1:175:3 7701MFP1:175:3	30 34 35	M	28 27 28	11171136 25483828 69623961	19550.76 54859.67 115922.53
701MFP1:175:3 7701MFP1:175:3	37 38	i i	29 27	2209521 12919074	30065.76 24453.23
701MFP1:175:3 701MFP1:175:3	40 41	ii ii	28 28 28	43061056 42364376 158054698 430358001 430358001	68943.10 275471.83
7721MFP1:175:3 7721MFP1:175:1	46	, d	92 39 5	430358031 430358031 799236	50236.08 237884.60
7/21MFP1:175:1 07/21MFP1:175:1	9	ă.		798236 3590055 2860069 1122364 1642818 1017206	363762.92 179214.17
77LYMEP1:175:1 07LYMEP1:175:1 07LYMEP1:175:1	11 12 13	M.	16	1017206 1037285 1039285	27111.37 57262.03 26380.04
77LYMEP1:175:1 07LYMEP1:175:1 07LYMEP1:175:1	14 15	M.	12 15	1017/085 101	46720.81 89047.84 62182.50
77LYMEP1:175:1 77LYMEP1:175:1	17 18	ii ii	19 17	2811930 5383455 3671456	38136.29 98804.76 43319.03
77LYMEP1:175:1 77LYMEP1:175:1	20 21 99	ě	24 20 23	8079399 2613869 2613964	34735.52 25755.34 23097.83
7701MFP1:175:1 0701MFP1:175:1 0701MFP1:175:1	23 24 25	M	22 22 23	8385115 10438205 11446953	42800.31 60499.10 60641.18
701MFP1:175:1 0701MFP1:175:1 0701MFP1:175:1	26 27 28	M M	25 24 27	18529974 16839319 13444103	61865.56 65734.02 29352.54
70/MFP1:175:1 070/MFP1:175:1 070/MFP1:175:1	29 30 21	M M	26 26 27	30222058 41027340 55150137	76326.75 93278.54 115121.54
70:MFP1:175:1 70:MFP1:175:1 70:MFP1:175:1	32 33 34	M M	27 28 27	59451994 115555495 219463951	111235.20 194678.76 291318.84
7701MFP1:175:1 0701MFP1:175:1 0701MFP1:175:1	35 36 37	M	27 29 29	899133720 223177402 229480777	1637181.80 270341.33 304959.34
77LYMFP1:175:1 27LYMFP1:175:1 27LYMFP1:175:1	38 39 40	M	28 28 28	189379076 430337326 532373081	331443.25 719032.84 851709.71
7721MFP1:175:1 0721MFP1:175:1 0721MFP1:175:1	41 45 45	M B	28 42 49	219-4402051 999-131720 2221-77402 2221-77402 223-893777 1923-79070 433337203 1733-440805 4533-46060 4633-46060	2923378.75 290034.31 539100.73
701MFP1:175:2 0701MFP1:175:2 0701MFP1:175:2	6 7 8	M	9	412252 2099018 2187364	91164.36 284755.37 322069.00
7701MFP1:175:2 7701MFP1:175:2 7701MFP1:175:2	10 11	M	8 10 15		160050.64 144199.80 23421.43
701MFP1:1752 7701MFP1:1752 7701MFP1:1752	12 13 14	ă.	15 18 14	598274 1363203 592646 1779045 1592413 1921045 3402174 1624653	21369.56 19206.79
77UMFP1:175:2 77UMFP1:175:2	16 17	ä	14 17	1522413 1921045	54061.33 42815.37
7701MFP1:175:2 0701MFP1:175:2 0701MFP1:175:2	19 20 21	M.	17 23	1624853 3572184 1540873	36366.71 19966.70 16022.55
7701MFP1:175:2 7701MFP1:175:2 7701MFP1:175:2	22 23 34	ii ii	23 22 22	3672184 1648872 2939410 4550022 5712151 2077088 10280048 8177264 17308022 26457725 33784271 4078622 203450542 233460548	16100.89 26843.51 38536.74
7701MFP1:175:2 7701MFP1:175:2 7701MFP1:175:2	25 26 97	ě	22 24 23	7401503 10071838 10280349	49908.69 44845.00 53341.12
7701MFP1:175:2 9701MFP1:175:2 9701MFP1:175:2	28 29 30	M	26 25 26	8177364 17338032 26457725	21468.09 55929.35 62146.61
70:MFP1:175:2 70:MFP1:175:2 70:MFP1:175:2	21 32 20	M M	26 26 27	33784271 40794270 92429523	86591.33 103160.46 172062.82
701MFP1:175:2 0701MFP1:175:2 0701MFP1:175:2	34 35 36	M.	27 28 30	200458042 933498048 209913882	446812.91 1538304.72 235138.72
701MFP1:175:2 7701MFP1:175:2 7701MFP1:175:2	37 38 39	M M	29 28 28	209913682 242736619 143690462 415300008	304600.69 252099.80 659994.45
701MFP1:175:2 7701MFP1:175:2 7701MFP1:175:2	40 41 45	M	28 28 42	24273619 143893462 445390008 513827147 1775157002 4720152282 557627 2485408 348948	817352.89 2964756.97 298233.85
77LYMEP1:175:4 77LYMEP1:175:4 77LYMEP1:175:4	45 6 7	M	39 5 8	4720152282 557627 2485498	553972.81 171999.17 354634.92
7701MFP1:175:4 2701MFP1:175:4	9	ě		2485408 2489648 1108497 1574081 802588	151413.82 189126.79
77LYMEP1:175:4 27LYMEP1:175:4	12 13		13	765820 1517197	29445.78 25873.02
7701MFP1:175:4 7701MFP1:175:4	15	ii ii	15 14	610779 2246642 1484322	70537.47 62354.64
77LYMFP1:175:4 77LYMFP1:175:4 07LYMFP1:175:4	18 19 20	M M	16 17 22	1484022 2297859 3977761 2094829 5186723	
7727MFP1:175:4 7727MFP1:175:4 0727MFP1:175:4	21 22 23	M M M	20 22 22	1951174 3753359 5991638	21996.61 23204.76 39209.40
7/L/MFP1:175:4 77L/MFP1:175:4 77L/MFP1:175:4		M M	22 22 23	5/3LISM 599/638 7270004 861-4712 12565966 12013382 1226218 129674428	47457.13 59296.22 57219.67
77CYMEP1:175:4 77CYMEP1:175:4 77CYMEP1:175:4	27 28 29	M M	23 26 25	12013382 10205218 19674428 20173517	64242.38 26595.39 65114.10
77LYMFP1:175:4 07LYMFP1:175:4 07LYMFP1:175:4	30 31 32	ii ii	26 26 26	29073517 36224270 40524687 77672886 144575076	95156.73 93864.74
7707MFP1:1754 7707MFP1:1754	34 35	M M	27 27 27	144575076 945647943	59296.22 57219.67 6424.236 26295.39 6514.40 74008.65 95156.73 93864.74 146292.50 20975.66 774577.28 230573.41 735277.72
77LYMEP1:175:4 77LYMEP1:175:4 77LYMEP1:175:4	37 38 10	M M	29 27 28	252670879 144744899 441442591	332452.91 260713.41 735777.75
77LYMFP1:175:4 77LYMFP1:175:4 77LYMFP1:175:4	40 41 45	¥.	28 28 42	441442591 480492129 1822850069 4765749170 4765749170 436248 2234543 2251669	776818.41 3142243.84 298512.02
70/MFP1:175:4 070/MFP1:175:5 070/MFP1:175:5	45 6 7	D M M	39 6 9	4765749170 436248 2124543	556790.43 110953.26 263794.70
7701MEP1:1755 7701MEP1:1755 7701MEP1:1755	8 9 10	M M	9 10 10	2251969 1122000 1447029	300949.70 121845.53 141056.28
701MFP1:1755 701MFP1:1755 701MFP1:1755	11 12 13	M M M	15 14 19	696797 652972 1339471	23195.67 23590.36 18015.91
7/L/MFP1:1755 7/L/MFP1:1755 7/L/MFP1:1755	14 15 16	M M	14 17 15	536179 1920189 1489876	22153.24 38447.84 50612.59
707MFP1:1755	17 18 19	M M	17 16 17	2026679 3536442 1826409	41651.26 90900.69 37215.09
70/MFP1:1755 70/MFP1:1755 70/MFP1:1755	20 21 22 22	ii B	21 21 22	1761128 3298709	20182.57 15708.93 16762.66
7707MFP1:1755	20 24 25	M M	22 22 22	6309966 7673047	25609.71 37244.10 44535.19
7701MEP1-1755	20 27 28 90	ă M	21 25 26 26	21 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	48204.67 51572.77 20780.52 54400.47
77CYMFP1:1755 77CYMFP1:1755 77CYMFP1:1755	30 31 90	Ĭ	27 26 36	25855493 31234791 35994040	56868.00 78472.11
7707MFP1:1755 7707MFP1:1755 7707MFP1:1755	33 34 35	M M	27 27 28	69900576 134031173 980541970	126360.44 293802.01 1738750.46
701MFP1:175:5 0701MFP1:175:5 0701MFP1:175:5	36 37 38	M M	90 29 28	250319516 271584734 139753548	277709.51 340145.69 246095.67
7/L/MEP1:1755 7/L/MEP1:1755 7/L/MEP1:1755	39 40 41	M M M	28 28 28	477706009 504525184 1989175109	764855.35 802084.88 3361309.34
77LYMEP1:175.5 77LYMEP1:175.5 77LYMEP1:175.8	45 45 6	d d	42 39 7	5007333056 5007333056 647526	314576.45 600716.18 129576.47
7/L/MFP1:1758 7/L/MFP1:1758 7/L/MFP1:1758	7 8 9	M M	9 9 10	3136458 3669727 1743221	352890.75 439521.88 181111.72
77CYMEP1:1758 77CYMEP1:1758 77CYMEP1:1758	10 11 12	M M	11 16 16	2495303 1022215 960121 2114440	198992.73 27002.54 24420.59
7C/MFP1:1758 7C/MFP1:1758 7C/MFP1:1758	13 14 15	ii B	15 15	825503 2902661 2484774	24243.40 52071.35
	の でき こうさい かい ・・・ ・			2003061 248:574 23:5529 546:3729 264:4779 5778640 2782028 520:654 7472004 924:4881	SECTION 5 FOR 100 PM 1
77LYMFP1:1758 77LYMFP1:1758 77LYMFP1:1758	20 21 22	M M	24 22 22 24	5779649 2782028 5201854	24466.07 19377.11 21604.71
7727MFP1:175.8 1717MFD1-175.8	23 %	M	23 91	7473304 9344884	33457.62 46680.65