

## Putnam Mortgage Opportunities Fund

As of 6/30/2018

## Security Detail

Security Description	Percent of Portfolio
FNMA FN30 TBA 03.0000 08/01/2048	18.17%
FNMA FN30 TBA 04.0000 07/01/2048	5.42%
GNMA GII30 TBA 04.5000 07/01/2048	2.21%
GNMA GII30 TBA 04.0000 07/01/2048	1.09%
CAS 2017-C02 2B1 07.5911 09/25/2029	0.72%
GNR 2018-H01 AI IO 02.1317 01/20/2068	0.71%
CAS 2017-C06 1M2 04.7411 02/25/2030	0.70%
CAS 2017-C05 1B1 05.6911 01/25/2030	0.61%
CAS 2017-C02 2M2 05.7411 09/25/2029	0.61%
CAS 2017-C04 2B1 07.1411 11/25/2029	0.59%
CAS 2016-C03 2M2 07.9911 10/25/2028	0.58%
GNR 2017-H21 AI IO 02.3837 10/20/2067	0.56%
CAS 2017-C03 1B1 06.9411 10/25/2029	0.55%
WAMU 2005-AR12 1A8 03.2781 10/25/2035	0.55%
GNR 2017-H05 CI IO 02.0750 02/20/2067	0.53%
CAS 2015-C04 2M2 07.6411 04/25/2028	0.53%
WAMU 2005-AR14 1A2 03.4129 12/25/2035	0.53%
JPMCC 2007-CB20 E P/P 144A 06.4413 02/12/2051	0.52%
GNR 2017-5 IO IO 05.0000 01/20/2047	0.52%
GNR 2018-51 EI IO 03.5000 10/20/2047	0.51%
SPST 2017-6 A 02.6613 11/24/2018	0.51%
STACR 2018-HQA1 M2 04.3911 09/25/2030	0.50%
CAS 2017-C06 2M2 04.8911 02/25/2030	0.49%
GNR 2009-121 DI IO 04.5000 12/16/2039	0.49%
STACR 2017-DNA1 B1 07.0411 07/25/2029	0.49%
CAS 2018-C01 1M2 04.3411 07/25/2030	0.48%
FNR 2016-85 SL IO 04.0089 11/25/2046	0.48%
GNR 2018-H07 IE IO 02.3780 02/20/2068	0.46%
CAS 2018-C03 1M2 04.2411 10/25/2030	0.46%
GNR 2017-H20 GI IO 02.3591 09/20/2067	0.45%
FNR 2017-8 SB IO 04.0089 02/25/2047	0.45%
MSBAM 2013-C10 F P/P 144A 04.2189 07/15/2046	0.45%
GNR 2017-H04 BI IO 02.3127 02/20/2067	0.44%
WFCM 2014-LC16 D P/P 144A 03.9380 08/15/2050	0.43%
FNR 2017-75 NI IO 05.0000 11/25/2046	0.43%
CAS 2016-C03 2B 14.8411 10/25/2028	0.43%
MLCFC 2006-4 C 05.3240 12/12/2049	0.42%
SPST 2018-1 A 02.8613 04/24/2019	0.41%
FNR 2017-113 IO IO 05.0000 01/25/2038	0.41%
GNR 2018-H02 HI IO 01.9506 01/20/2068	0.41%
WFRBS 2013-C15 D P/P 144A 04.6278 08/15/2046	0.41%

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Security Description	Percent of Portfolio
BALTA 2006-6 1A1 02.4111 11/25/2036	0.40%
GSMS 2011-GC5 D P/P 144A 05.5644 08/10/2044	0.39%
CAS 2016-C03 1M2 07.3911 10/25/2028	0.38%
FNMA FN30 TBA 05.0000 07/01/2048	0.38%
CAS 2015-C04 1M2 07.7911 04/25/2028	0.37%
SPST 2017-LD1 A 02.8911 11/25/2050	0.37%
OMIR 2017-1A B1 P/P 144A 07.8411 04/25/2027	0.36%
MSC 2011-C3 G P/P 144A 05.3267 07/15/2049	0.36%
FNR 2010-99 NI IO 06.0000 09/25/2040	0.35%
GNR 2016-H22 AI IO 01.8415 10/20/2066	0.35%
GNR 2017-H10 MI IO 01.6013 04/20/2067	0.35%
FNR 2017-72 GI IO 04.0000 08/25/2047	0.34%
STACR 2018-DNA2 B1 05.7573 12/25/2030	0.34%
CMLTI 2007-AR5 1A1A 03.8172 04/25/2037	0.33%
FHR 4629 GI IO 03.5000 11/15/2045	0.33%
GNR 2017-136 GI IO 03.5000 09/20/2047	0.33%
FNR 2015-73 PI IO 03.5000 10/25/2045	0.33%
GNR 2018-H01 IB IO 01.6119 01/20/2068	0.33%
FHR 4663 PI IO 04.0000 03/15/2047	0.33%
SPST 2018-3 A 02.7911 07/24/2019	0.33%
WFMB 2006-AR2 1A1 03.8211 03/25/2036	0.33%
WFMB 2006-AR5 1A1 04.1838 04/25/2036	0.32%
STACR 2015-DNA2 B 09.6411 12/25/2027	0.32%
CAS 2016-C02 1M2 08.0911 09/25/2028	0.31%
GNR 2017-130 NI IO 03.5000 01/20/2047	0.31%
GNR 2017-H11 NI IO 01.9295 05/20/2067	0.31%
MSBAM 2014-C17 D P/P 144A 04.8597 08/15/2047	0.31%
FNR 2016-102 JI IO 03.5000 02/25/2046	0.31%
GNR 2016-150 I IO 05.0000 11/20/2046	0.31%
2.75 R ISWP FWD US0003M P 06/20/2023	0.30%
FNR 2018-36 SD	0.30%
GNR 2017-H16 IB IO 01.9726 08/20/2067	0.30%
CSAIL 2015-C1 D P/P 144A 03.9401 04/15/2050	0.30%
GNR 2014-H08 CI IO 01.4837 03/20/2064	0.30%
GNR 2017-H22 DI IO 02.0835 11/20/2067	0.29%
WAMU 2005-AR10 1A3 03.3594 09/25/2035	0.29%
STACR 2016-HQA2 M3 07.2411 11/25/2028	0.29%
GNR 2015-165 IC IO 03.5000 07/16/2041	0.29%
FNR 2017-48 LI IO 04.0000 05/25/2047	0.28%
CAS 2016-C07 2M2 06.4411 05/25/2029	0.28%
GSR 2007-OA1 2A3A 02.4011 05/25/2037	0.28%

## Security Detail

Security Description	Percent of Portfolio
CAS 2016-C06 1M2 06.3411 04/25/2029	0.28%
GNR 2010-125 SD IO 04.5949 01/16/2040	0.28%
GNR 2017-H20 AI IO 02.1310 10/20/2067	0.28%
GSMS 2013-GC10 E P/P 144A 04.5576 02/10/2046	0.28%
CGCMT 2014-GC21 D P/P 144A 04.9959 05/10/2047	0.28%
GNR 2014-132 IO IO 05.0000 09/20/2044	0.28%
STACR 2016-DNA3 M3 07.0911 12/25/2028	0.28%
CAS 2016-C05 2M2 06.5411 01/25/2029	0.28%
GNR 2014-H23 BI IO 01.5562 11/20/2064	0.27%
FNR 2012-132 PI IO 05.0000 10/25/2042	0.27%
GNR 2017-132 IA IO 04.5000 09/08/2047	0.27%
FNR 2014-35 CS IO 04.0589 06/25/2044	0.27%
GNR 2016-H24 CI IO 01.6904 10/20/2066	0.26%
WFRBS 2012-C10 D P/P 144A 04.5918 12/15/2045	0.26%
FHR 4560 IO IO 05.8034 05/15/2039	0.26%
GNR 2015-35 AI IO 05.0000 03/16/2045	0.26%
GNR 2016-H21 AI IO 01.7658 09/20/2066	0.26%
GNR 2017-179 WI IO 05.0000 12/20/2047	0.26%
GNR 2017-H16 CI IO 01.6590 07/20/2067	0.26%
JPMCC 2013-C16 E P/P 144A 03.7440 12/15/2046	0.26%
BALTA 2005-7 21A1 03.9863 09/25/2035	0.26%
STACR 2018-DNA1 B1 05.2411 07/25/2030	0.26%
JPMCC 2013-LC11 E P/P 144A 03.2500 04/15/2046	0.26%
JPMCC 2012-C8 D P/P 144A 04.8088 10/15/2045	0.26%
GNR 2016-H27 EI IO 01.6511 12/20/2066	0.25%
WBCMT 2005-C21 D 05.4644 10/15/2044	0.25%
GNR 2016-H22 IO IO 01.8471 10/20/2066	0.25%
GNR 2015-H01 BI IO 01.5578 01/20/2065	0.25%
FNR 2012-49 QI IO 04.5000 12/25/2040	0.25%
MSC 2012-C4 E P/P 144A 05.6009 03/15/2045	0.25%
GNR 2017-H03 DI IO 02.2556 12/20/2066	0.25%
FNR 2010-109 IM IO 05.5000 09/25/2040	0.24%
GNR 2013-67 IP IO 04.0000 04/16/2043	0.24%
CAS 2015-C03 1M2 07.0911 07/25/2025	0.23%
WFCM 2013-LC12 D P/P 144A 04.4231 07/15/2046	0.23%
GNR 2017-H02 BI IO 02.3476 01/20/2067	0.23%
GNR 2013-99 AS IO 03.9663 06/20/2043	0.22%
FNR 2012-90 DI IO 04.0000 03/25/2042	0.22%
CWALT 2006-OA10 4A1 02.2811 08/25/2046	0.22%
GNR 2013-6 AI IO 03.5000 08/20/2039	0.22%
FHR 4475 CI IO 03.5000 01/15/2044	0.22%

## Security Detail

Security Description	Percent of Portfolio
CAS 2015-C03 2M2 07.0911 07/25/2025	0.22%
GNR 2017-H03 CI IO 02.4901 12/20/2066	0.21%
GNR 2017-H08 EI IO 02.1030 02/20/2067	0.21%
GNR 2014-95 JI IO 04.5000 12/16/2039	0.21%
CAS 2017-C01 1M2 05.6411 07/25/2029	0.21%
MSBAM 2013-C10 E P/P 144A 04.2189 07/15/2046	0.21%
FHR 4707 AI IO 04.0000 07/15/2047	0.21%
GNR 2016-H26 KI IO 01.3909 11/20/2066	0.21%
CWALT 2006-OA10 3A1 02.2811 08/25/2046	0.21%
GSAA 2005-15 2A2 02.3411 01/25/2036	0.21%
GNR 2014-H06 BI IO 01.4782 02/20/2064	0.21%
GNR 2015-H04 AI IO 01.2822 12/20/2064	0.20%
BALTA 2005-8 21A1 03.6934 10/25/2035	0.20%
GNR 2013-182 SP IO 04.6163 12/20/2043	0.20%
WFRBS 2012-C7 E P/P 144A 04.9788 06/15/2045	0.20%
FHR 4127 PI IO 04.5000 07/15/2042	0.20%
FNR 2017-74 JI IO 04.0000 10/25/2047	0.20%
TEMP GNH-537 AI IO 01.7481 08/20/2067	0.20%
GNR 2018-77 IO IO 05.0000 06/20/2048	0.20%
MSC 2008-T29 D P/P 144A 06.3676 01/11/2043	0.20%
GNR 2017-H14 JI IO 02.1734 06/20/2067	0.19%
STACR 2017-HQA1 M2 05.6411 08/25/2029	0.19%
GNR 2015-105 LI IO 05.0000 10/20/2039	0.19%
FNR 2016-83 BS IO 04.0089 11/25/2046	0.19%
GNR 2017-45 IM IO 04.0000 10/20/2044	0.18%
FNR 2018-15 PI IO 04.0000 10/25/2047	0.18%
GNR 2017-H16 KI IO 01.4623 08/20/2067	0.18%
JPMBB 2014-C25 D P/P 144A 04.0935 11/15/2047	0.18%
GNR 2012-H11 FI IO 01.2135 02/20/2062	0.18%
FHR 4635 PI IO 04.0000 12/15/2046	0.18%
FNR 2018-1 JI IO 05.0000 02/25/2048	0.18%
GNR 2017-6 DI IO 03.5000 01/20/2044	0.18%
GNR 2017-87 IO IO 04.0000 01/20/2046	0.18%
GNR 2017-68 IL IO 04.0000 08/20/2044	0.18%
GNR 2015-H22 HI IO 02.0330 08/20/2065	0.17%
CAS 2018-C04 2M2 04.6519 12/25/2030	0.17%
GNR 2017-132 IB IO 05.5000 09/20/2047	0.17%
GNR 2015-89 LI IO 05.0000 12/20/2044	0.17%
GNR 2017-180 IP IO 03.5000 11/20/2046	0.17%
STACR 2015-DNA3 B 11.4411 04/25/2028	0.17%
GNR 2016-135 PI IO 04.0000 05/20/2046	0.17%

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## Security Detail

Security Description	Percent of Portfolio
GNR 2015-62 IL IO 03.5000 02/16/2042	0.17%
GNR 2017-17 EI IO 04.0000 09/20/2044	0.16%
GNR 2017-136 IG IO 03.5000 02/20/2044	0.16%
HVMLT 2004-11 1A 02.7849 01/19/2035	0.16%
GNR 2018-89 LS IO 04.1536 06/20/2048	0.16%
GNR 2016-H18 QI IO 01.8402 06/20/2066	0.16%
GNR 2016-H17 DI IO 02.2214 07/20/2066	0.16%
GNR 2015-40 KI IO 04.0000 07/20/2044	0.16%
FNR 2011-134 SP IO 03.9089 02/25/2041	0.16%
GNR 2012-H29 CI IO 01.4078 02/20/2062	0.16%
JPMBB 2013-C14 F P/P 144A 03.5980 08/15/2046	0.16%
FHS 324 C21 IO 06.0000 06/15/2039	0.16%
FNR 2017-8 IO IO 06.0000 02/25/2047	0.16%
GNR 2017-H13 QI IO 02.4473 06/20/2067	0.15%
GNR 2017-H14 EI IO 02.1149 06/20/2067	0.15%
GNR 2017-99 AI IO 04.0000 01/20/2047	0.15%
GNR 2017-130 IB IO 04.0000 08/20/2047	0.15%
MSAC 2004-NC1 M2 04.4161 12/27/2033	0.15%
STRU KG-8488 SA IO 04.1023 06/20/2048	0.14%
JPMCC 2012-LC9 E P/P 144A 04.5177 12/15/2047	0.14%
GNR 2011-148 SN IO 04.6049 11/16/2041	0.14%
GNR 2015-H29 HI IO 02.0937 09/20/2065	0.14%
STACR 2016-HQA3 M3 05.9411 03/25/2029	0.14%
MSBAM 2014-C18 D P/P 144A 03.3890 10/15/2047	0.13%
GNR 2017-26 EI IO 05.0000 02/20/2040	0.13%
CMLTI 2007-AMC3 A2D 02.4411 03/25/2037	0.13%
GNR 2017-141 ID IO 03.5000 07/20/2047	0.13%
FHR 4604 QI IO 03.5000 07/15/2046	0.13%
FHR 3981 WS IO 04.4768 05/15/2041	0.12%
CSMC 2007-C4 C P/P 144A 06.2361 09/15/2039	0.12%
GCCFC 2005-GG5 B 05.6065 04/10/2037	0.12%
CWCI 2007-C3 AJ 06.0153 05/15/2046	0.12%
GNR 2017-H06 MI IO 02.1059 02/20/2067	0.12%
FHR 4413 HI IO 03.5000 03/15/2040	0.12%
GNR 2016-147 BI IO 04.0000 10/20/2046	0.12%
GNR 2012-98 AI IO 04.5000 04/16/2042	0.12%
CWALT 2006-45T1 2A7 02.4311 02/25/2037	0.12%
STACR 2015-HQA2 B 12.5911 05/25/2028	0.12%
GNR 2017-H18 DI IO 02.4760 09/20/2067	0.12%
FHR 4550 AI IO 03.0000 10/15/2040	0.12%
GNR 2017-11 PI IO 04.0000 12/20/2046	0.12%

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Security Description	Percent of Portfolio
GNR 2015-111 IJ IO 03.5000 08/20/2045	0.12%
WFRBS 2014-C19 E P/P 144A 05.1366 03/15/2047	0.12%
CWALT 2005-51 3A3A 02.4038 11/20/2035	0.12%
WFRBS 2012-C7 D P/P 144A 04.9788 06/15/2045	0.12%
WAMU 2004-AR12 A2B 03.0111 10/25/2044	0.12%
CMB CMBX.NA.BB.7 2047-01-17 500.0 01/17/2047 MS	0.11%
STACR 2017-DNA3 M2 04.5911 03/25/2030	0.11%
GNR 2017-H09 DI IO 01.8926 03/20/2067	0.11%
GNR 2017-136 IY IO 05.0000 03/20/2045	0.11%
GNR 2017-H20 DI IO 02.1264 10/20/2067	0.11%
GNR 2012-H10 AI IO 01.2132 12/20/2061	0.11%
GNR 2017-120 IJ IO 04.0000 04/20/2047	0.11%
CMLTI 2007-WFH3 M1 02.3511 06/25/2037	0.11%
FHR 4134 PI IO 03.0000 11/15/2042	0.11%
BSCMS 2007-T28 D P/P 144A 05.7988 09/11/2042	0.11%
GNR 2017-123 IO IO 05.0000 08/16/2047	0.10%
GNR 2011-135 DI IO 05.0000 04/16/2040	0.10%
GNR 2017-H03 AI IO 02.2560 12/20/2066	0.10%
GNR 2012-103 CI IO 03.5000 08/16/2042	0.10%
STACR 2017-DNA2 B1 07.2411 10/25/2029	0.10%
FHR 4033 SC IO 04.4768 10/15/2036	0.10%
CMB CMBX.NA.BB.7 2047-01-17 500.0 01/17/2047 JP	0.10%
FNR 2013-90 SD IO 04.5089 09/25/2043	0.09%
GNR 2017-H06 BI IO 02.2713 02/20/2067	0.09%
CMB CMBX.NA.BB.9 2058-09-17 500.0 09/17/2058 ML	0.09%
GNR 2016-138 DI IO 04.0000 10/20/2046	0.09%
GNR 2017-H22 EI IO 02.4789 10/20/2067	0.09%
GNR 2016-H06 AI IO 01.5503 02/20/2066	0.09%
FHR 4386 IL IO 04.0000 12/15/2043	0.09%
GNR 2017-H20 HI IO 02.0733 10/20/2067	0.09%
COMM 2014-CR18 D P/P 144A 04.8898 07/15/2047	0.09%
GNR 2014-58 SA IO 04.0163 04/20/2044	0.09%
GNR 2014-H25 BI IO 01.6761 12/20/2064	0.09%
SWPTN 3WX10Y R 2.885 USD 07/16/2018 CI	0.09%
GNR 2010-167 SG IO 04.4149 08/16/2038	0.09%
GNR 2016-49 IO IO 04.5000 11/16/2045	0.09%
GNR 2017-H19 MI IO 02.0275 04/20/2067	0.09%
FHR 4568 MI IO 04.0000 04/15/2046	0.08%
CWALT 2006-OA10 1A1 02.5181 08/25/2046	0.08%
CWALT 2006-OA10 2A1 02.2811 08/25/2046	0.08%
GNR 2014-44 IA IO 03.5000 05/20/2028	0.08%

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Security Description	Percent of Portfolio
FNR 2017-78 KI IO 03.5000 10/25/2047	0.08%
FHR 4267 CS IO 03.9768 05/15/2039	0.08%
GNR 2014-161 HI IO 04.5000 06/20/2044	0.08%
GNR 2017-H08 DI IO 02.2567 02/20/2067	0.08%
WAMU 2005-AR13 A1C4 02.5211 10/25/2045	0.08%
FNR 2015-69 IO IO 06.0000 09/25/2045	0.08%
GNR 2013-H15 CI IO 01.7655 07/20/2063	0.08%
JPALT 2007-A2 12A1 02.2911 06/25/2037	0.08%
FNS 397 2 IO 05.0000 09/25/2039	0.08%
CMB CMBX.NA.BB.7 2047-01-17 500.0 01/17/2047 JP	0.08%
GNR 2010-H20 IF IO 01.4424 10/20/2060	0.08%
GNR 2014-20 SQ IO 04.0163 07/20/2043	0.07%
FHR 4425 IO IO 04.0000 01/15/2045	0.07%
SAMI 2006-AR7 A1A 02.3011 08/25/2036	0.07%
WFRBS 2011-C4 D P/P 144A 05.3988 06/15/2044	0.07%
MSC 2012-C4 D P/P 144A 05.6009 03/15/2045	0.07%
JPMCC 2012-C6 E P/P 144A 05.3121 05/15/2045	0.07%
GNR 2016-H16 DI IO 02.8693 06/20/2066	0.07%
FNR 2017-7 JI IO 04.0000 02/25/2047	0.07%
FHR 4656 AI IO 03.0000 09/15/2037	0.07%
CAS 2016-C03 1B 13.8411 10/25/2028	0.07%
FNR 2011-98 AI IO 03.5000 11/25/2037	0.07%
GNR 2016-42 IO IO 05.0000 02/20/2046	0.06%
GNR 2015-96 NI IO 03.5000 01/20/2039	0.06%
FNR 2016-97 KI IO 03.0000 06/25/2040	0.06%
BSMF 2006-AR2 2A1 02.3211 09/25/2046	0.06%
CMB CMBX.NA.BB.7 2047-01-17 500.0 01/17/2047 JP	0.06%
CMB CMBX.NA.BB.9 2058-09-17 500.0 09/17/2058 CG	0.06%
GNR 2017-H09 HI IO 01.8233 03/20/2067	0.06%
GNR 2016-17 IA IO 04.5000 03/20/2045	0.06%
FHR 4694 GI IO 04.0000 02/15/2043	0.06%
FHR 3984 DS IO 03.8768 01/15/2042	0.06%
COMM 2012-CR3 E P/P 144A 04.9139 10/15/2045	0.06%
GNR 2016-H27 BI IO 02.3952 12/20/2066	0.06%
GNR 2011-H15 AI IO 01.5554 06/20/2061	0.06%
FNS 404 2 IO 04.5000 05/25/2040	0.06%
GNR 2015-69 IK IO 03.5000 03/20/2038	0.06%
FHR 4099 BI IO 03.5000 06/15/2039	0.06%
GNR 2016-29 IO IO 04.0000 02/16/2046	0.06%
OPTN FN30 3.5 07/05/18 CALL 99.1953125 JPMC	0.06%
CMB CMBX.NA.BBB-.7 2047-01-17 300.0 01/17/2047 CS	0.06%

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Security Description	Percent of Portfolio
BMIR 2015-1A B1 08.3911 07/25/2025	0.06%
GNR 2014-98 AI IO 04.5000 10/20/2041	0.05%
FHR 4425 WI IO 04.0000 03/15/2043	0.05%
GNR 2017-H03 EI IO 02.3705 01/20/2067	0.05%
FNR 2017-2 KI IO 04.0000 02/25/2047	0.05%
GNR 2013-23 IK IO 03.0000 09/20/2037	0.05%
FHR 3714 KI IO 04.5000 11/15/2039	0.05%
FHR 4076 MS IO 04.6268 07/15/2040	0.05%
FHR 4024 PI IO 04.5000 12/15/2041	0.05%
FNR 2011-101 SA IO 03.8089 10/25/2041	0.05%
GNR 2016-H20 NI IO 01.7870 09/20/2066	0.05%
CMB CMBX.NA.BB.7 2047-01-17 500.0 01/17/2047 JP	0.05%
FHR 4193 PI IO 04.0000 03/15/2043	0.05%
GNR 2016-47 CI IO 04.0000 09/20/2045	0.05%
CAS 2016-C02 1B 14.3411 09/25/2028	0.05%
GNR 2013-104 YS IO 04.0649 07/16/2043	0.05%
FHR 3747 SA IO 04.4268 10/15/2040	0.05%
GNR 2016-168 AI IO 05.0000 07/20/2045	0.05%
GNR 2017-H16 JI IO 02.5036 08/20/2067	0.05%
FHR 4386 LI IO 04.0000 02/15/2043	0.05%
FNR 2016-24 CI IO 04.0000 02/25/2046	0.05%
FNR 2017-15 LI IO 04.0000 06/25/2046	0.04%
FHR 4403 CI IO 04.0000 10/15/2044	0.04%
FNR 2010-140 GS IO 03.9089 07/25/2039	0.04%
GNR 2017-H06 DI IO 01.7649 02/20/2067	0.04%
FHR 4560 PI IO 03.5000 05/15/2045	0.04%
GNR 2013-3 IT IO 05.0000 01/20/2043	0.04%
GNR 2016-99 IP IO 04.5000 08/20/2043	0.04%
GNR 2016-77 SL IO 04.0663 03/20/2043	0.04%
GNR 2017-63 PI IO 04.0000 12/20/2043	0.04%
CAS 2015-C01 1M2 06.3911 02/25/2025	0.04%
MSBAM 2013-C10 D P/P 144A 04.2189 07/15/2046	0.04%
AHM 2007-1 GA1C 02.2811 05/25/2047	0.04%
GNR 2011-H16 FI IO 01.0330 07/20/2061	0.04%
FHR 4663 KI IO 03.5000 11/15/2042	0.04%
GNR 2017-H08 NI IO 02.0977 03/20/2067	0.04%
GNR 2015-87 AI IO 03.5000 12/20/2038	0.04%
CMB CMBX.NA.BB.9 2058-09-17 500.0 09/17/2058 CS	0.04%
GNR 2013-34 HI IO 04.5000 03/20/2043	0.04%
JPMBB 2014-C18 D P/P 144A 04.9744 02/15/2047	0.04%
FHR 3904 NI IO 03.5000 08/15/2026	0.04%



## Putnam Mortgage Opportunities Fund

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## Security Detail

Security Description	Percent of Portfolio
GNR 2012-H29 AI IO 01.4624 10/20/2062	0.04%
GNR 2012-H29 FI IO 01.4624 10/20/2062	0.04%
FHR 4299 JI IO 04.0000 07/15/2043	0.04%
CMB CMBX.NA.BB.7 2047-01-17 500.0 01/17/2047 MS	0.04%
GSMS 2012-GC6 D P/P 144A 05.8403 01/10/2045	0.04%
GNR 2015-106 CI IO 04.0000 05/20/2045	0.03%
MSC 2008-T29 F P/P 144A 06.3676 01/11/2043	0.03%
GNR 2013-187 IO IO 04.5000 11/20/2039	0.03%
FNR 2012-103 SD IO 03.9589 09/25/2042	0.03%
FHR 3852 SC IO 04.5768 04/15/2040	0.03%
MSC 2006-HQ10 B 05.4480 11/12/2041	0.03%
CAS 2016-C05 2B 12.8411 01/25/2029	0.03%
GNR 2014-139 NI IO 03.5000 08/20/2028	0.03%
GNR 2017-H09 IO IO 01.7043 04/20/2067	0.03%
CFCRE 2011-C2 F P/P 144A 05.2500 12/15/2047	0.03%
CAS 2016-C01 1B 13.8411 08/25/2028	0.03%
FHR 4663 TI IO 03.5000 10/15/2042	0.03%
SAMI 2007-AR1 2A1 02.2711 01/25/2037	0.03%
FHR 4601 PI IO 04.5000 12/15/2045	0.03%
CWHL 2006-OA5 2A1 02.2911 04/25/2046	0.03%
GNR 2016-129 PI IO 04.5000 06/20/2045	0.03%
FHR 4510 HI IO 03.0000 03/15/2040	0.03%
CSMC 2008-C1 AJ P/P 144A 06.1704 02/15/2041	0.03%
GNR 2017-38 DI IO 05.0000 03/16/2047	0.03%
GNR 2015-162 BI IO 04.0000 11/20/2040	0.03%
GNR 2017-H14 DI IO 01.6963 06/20/2067	0.03%
FHR 4530 TI IO 04.0000 11/15/2045	0.03%
GNR 2015-144 IA IO 04.0000 01/16/2043	0.03%
INDX 2006-AR11 2A1 03.9054 06/25/2036	0.03%
FNR 2012-36 SN IO 04.3589 04/25/2042	0.03%
JPMCC 2012-C6 G P/P 144A 02.9720 05/15/2045	0.03%
GNR 2014-69 IG IO 05.0000 09/20/2043	0.03%
FHR 4182 PI IO 03.0000 12/15/2041	0.03%
GNR 2015-52 IK IO 03.5000 04/20/2045	0.03%
WFRBS 2011-C2 D P/P 144A 05.8385 02/15/2044	0.03%
GSAA 2006-8 2A2 02.2711 05/25/2036	0.03%
OPTN FN30 3.0 07/05/18 CALL 96.4765625 JPMC	0.03%
GNR 2016-37 IW IO 04.5000 02/20/2046	0.03%
MSBAM 2012-C6 G P/P 144A 04.5000 11/15/2045	0.03%
CWALT 2005-59 1A1 02.4138 11/20/2035	0.03%
FNR 2013-57 IQ IO 03.0000 06/25/2041	0.03%

Security Detail

Security Description	Percent of Portfolio
FNR 2013-27 PI IO 03.0000 12/25/2041	0.02%
GNR 2017-H11 DI IO 01.7873 05/20/2067	0.02%
CMB CMBX.NA.BB.9 2058-09-17 500.0 09/17/2058 CG	0.02%
CMB CMBX.NA.BB.9 2058-09-17 500.0 09/17/2058 CG	0.02%
JPMCC 2005-LDP4 C 05.8601 10/15/2042	0.02%
FNR 2016-70 QI IO 03.5000 10/25/2046	0.02%
GNR 2012-47 CI IO 04.0000 03/20/2042	0.02%
CWALT 2006-OA7 1A2 02.4981 06/25/2046	0.02%
SWPTN 1MX10Y R 2.965 USD 07/13/2018 GS	0.02%
GNR 2016-H24 IO IO 02.1008 09/20/2066	0.02%
GNR 2016-149 MI IO 05.5000 05/20/2039	0.02%
SWPTN 5WX10Y R 2.9125 USD 07/23/2018 MS	0.02%
SWPTN 3MX10Y R 2.89 USD 09/21/2018 MS	0.02%
GNR 2015-134 LI IO 03.5000 05/20/2039	0.02%
GNR 2015-53 MI IO 04.0000 04/16/2045	0.02%
CMB CMBX.NA.BB.7 2047-01-17 500.0 01/17/2047 ML	0.02%
GNR 2017-H03 HI IO 01.5488 01/20/2067	0.02%
3.00 R ISWP FWD US0003M P 09/19/2048	0.02%
GNR 2016-H25 GI IO 01.5013 11/20/2066	0.02%
JPMBB 2014-C25 E P/P 144A 03.3320 11/15/2047	0.02%
CMB CMBX.NA.BB.7 2047-01-17 500.0 01/17/2047 MS	0.02%
OPTN FN30 3.5 09/06/18 PUT 98.8359375 JPMC	0.02%
FNR 2011-59 BI IO 06.0000 08/25/2040	0.02%
GNR 2015-79 GI IO 05.0000 10/20/2039	0.02%
2.95 R ISWP FWD US0003M P 09/19/2028	0.02%
MSC 2007-HQ11 B 05.5380 02/12/2044	0.02%
GNR 2012-129 IO IO 04.5000 11/16/2042	0.02%
GNR 2015-H13 AI IO 02.0914 06/20/2065	0.02%
FNR 2010-35 SG IO 04.3089 04/25/2040	0.02%
CMB CMBX.NA.BB.7 2047-01-17 500.0 01/17/2047 JP	0.02%
CMB CMBX.NA.BB.7 2047-01-17 500.0 01/17/2047 GS	0.02%
GNR 2016-H23 NI IO 01.8293 10/20/2066	0.02%
OPTN FN30 3.5 09/06/18 PUT 98.6796875 JPMC	0.02%
GNR 2012-H23 WI IO 01.5642 10/20/2062	0.02%
GNR 2012-H06 AI IO 01.3528 01/20/2062	0.02%
GNR 2016-H12 AI IO 01.6454 07/20/2065	0.02%
MHL 2005-3 M4 03.0361 08/25/2035	0.02%
CAS 2015-C01 2M2 06.6411 02/25/2025	0.02%
CMB CMBX.NA.BB.7 2047-01-17 500.0 01/17/2047 JP	0.02%
GNR 2010-134 ES IO 03.9163 11/20/2039	0.02%
OPTN FN30 3.5 09/06/18 PUT 98.5234375 JPMC	0.02%

## Security Detail

Security Description	Percent of Portfolio
GNR 2015-167 BI IO 04.5000 04/16/2045	0.02%
FHR 4591 QI IO 03.5000 04/15/2046	0.02%
SWPTN 5WX10Y R 2.89 USD 07/25/2018 BC	0.02%
SWPTN 5WX10Y R 2.945 USD 07/09/2018 CI	0.01%
CMB CMBX.NA.BBB-.7 2047-01-17 300.0 01/17/2047 JP	0.01%
CMB CMBX.NA.BBB-.7 2047-01-17 300.0 01/17/2047 JP	0.01%
GNR 2015-H03 DI IO 01.4179 01/20/2065	0.01%
GNR 2010-H22 CI IO 02.3632 10/20/2060	0.01%
GNR 2010-9 UI IO 05.0000 01/20/2040	0.01%
FHR 3829 AS IO 04.8768 03/15/2041	0.01%
UBSBB 2012-C2 F P/P 144A 05.0000 05/10/2063	0.01%
FHR 4015 GI IO 04.0000 03/15/2027	0.01%
FNR 2013-40 YI IO 03.5000 06/25/2042	0.01%
GNR 2016-83 PI IO 03.5000 06/20/2045	0.01%
CMB CMBX.NA.BB.7 2047-01-17 500.0 01/17/2047 JP	0.01%
FNR 2013-35 PI IO 03.0000 02/25/2042	0.01%
GNR 2016-H02 HI IO 01.3357 01/20/2066	0.01%
CMB CMBX.NA.BB.9 2058-09-17 500.0 09/17/2058 ML	0.01%
CMB CMBX.NA.BB.9 2058-09-17 500.0 09/17/2058 ML	0.01%
GNR 2013-H24 AI IO 01.4862 09/20/2063	0.01%
CMB CMBX.NA.BB.9 2058-09-17 500.0 09/17/2058 CG	0.01%
FHR 4462 PI IO 04.0000 04/15/2045	0.01%
FHR 4580 ID IO 03.5000 08/15/2045	0.01%
GNR 2016-111 IP IO 03.5000 08/20/2046	0.01%
GNR 2015-H26 EI IO 01.7196 10/20/2065	0.01%
GNR 2015-H25 AI IO 01.6062 09/20/2065	0.01%
FNR 2016-3 NI IO 06.0000 02/25/2046	0.01%
UBSBB 2012-C2 E P/P 144A 05.0502 05/10/2063	0.01%
CMB CMBX.NA.BB.7 2047-01-17 500.0 01/17/2047 JP	0.01%
GNR 2010-H19 BI IO 01.4606 08/20/2060	0.01%
GNR 2015-H14 BI IO 01.5747 05/20/2065	0.01%
CMB CMBX.NA.BB.7 2047-01-17 500.0 01/17/2047 JP	0.01%
FHR 4666 AI MTGE IO 03.0000 09/15/2035	0.01%
GNR 2016-H11 HI IO 02.0874 01/20/2066	0.01%
GNR 2015-H15 JI IO 01.9426 06/20/2065	0.01%
GNR 2015-186 AI IO 04.0000 12/20/2045	0.01%
GNR 2015-H10 HI IO 01.8930 04/20/2065	0.01%
GNR 2016-69 IO IO 04.0000 05/20/2046	0.01%
GNR 2015-H24 BI IO 01.6026 08/20/2065	0.01%
GNR 2014-H21 AI IO 01.1672 10/20/2064	0.01%
GNR 2011-H07 FI IO 01.2302 02/20/2061	0.01%

## Security Detail

Security Description	Percent of Portfolio
GNR 2015-187 JI IO 04.0000 03/20/2045	0.01%
GNR 2013-14 IO IO 03.5000 12/20/2042	0.01%
GNR 2012-91 IN IO 04.5000 05/20/2042	0.01%
FNR 2011-4 CS 08.7177 05/25/2040	0.01%
GNR 2010-35 DI IO 04.5000 03/20/2040	0.01%
WFMBS 2005-AR16 6A4 04.0974 10/25/2035	0.01%
GNR 2015-89 IP IO 04.0000 02/20/2045	0.01%
GNR 2014-100 LI IO 04.5000 10/16/2043	0.01%
GNR 2016-H14 AI IO 02.2193 06/20/2066	0.01%
FNR 2014-95 TI IO 04.0000 05/25/2039	0.01%
FHR 4389 IA IO 04.0000 09/15/2044	0.01%
GNR 2015-H25 BI IO 01.4386 10/20/2065	0.01%
GNR 2016-104 GI IO 04.5000 01/20/2046	0.01%
FHR 4452 QI IO 04.0000 11/15/2044	0.01%
GNR 2015-H24 HI IO 02.0270 09/20/2065	0.01%
GNR 2013-H14 XI IO 01.6450 03/20/2063	0.01%
FHR 4000 LI IO 04.0000 02/15/2042	0.01%
CMB CMBX.NA.BBB-.7 2047-01-17 300.0 01/17/2047 JP	0.01%
GNR 2015-80 IA IO 04.5000 06/20/2045	0.01%
BACM 2008-1 AJ 06.5712 02/10/2051	0.01%
GNR 2017-17 DI IO 03.5000 09/20/2043	0.01%
GNR 2014-H08 BI IO 01.4452 04/20/2064	0.01%
GNR 2016-75 LI IO 06.0000 01/20/2040	0.01%
FHR 4074 KS IO 04.6268 02/15/2041	0.01%
GNR 2015-149 KI IO 04.0000 10/20/2045	0.01%
GNR 2014-H13 BI IO 01.5805 05/20/2064	0.01%
GNR 2015-168 IG IO 03.5000 03/20/2043	0.01%
GNR 2012-104 QI IO 03.5000 04/20/2042	0.01%
GNR 2015-H22 EI IO 01.6110 08/20/2065	0.01%
GNR 2016-156 PI IO 03.5000 11/20/2046	0.01%
GNR 2010-35 QI IO 04.5000 03/20/2040	0.01%
GNR 2017-H06 EI IO 01.5711 02/20/2067	0.01%
FHR 4500 GI IO 04.0000 08/15/2045	0.01%
GNR 2011-22 PS IO 03.9163 07/20/2040	0.01%
GNR 2015-H23 DI IO 01.8397 09/20/2065	0.01%
GNR 2015-H20 CI IO 01.5873 08/20/2065	0.01%
GNR 2016-H08 GI IO 01.4213 04/20/2066	0.01%
GNR 2013-100 MI IO 03.5000 02/20/2043	0.01%
FNR 2012-90 EI IO 03.5000 02/25/2039	0.01%
GNR 2015-H10 CI IO 01.8025 04/20/2065	0.01%
SWPTN 14WX10Y R 2.745 USD 08/28/2018 MS	0.01%

## Security Detail

Security Description	Percent of Portfolio
SWPTN 6WX10Y R 2.826 USD 08/03/2018 CI	0.01%
FHR 4206 IP IO 03.0000 12/15/2041	0.01%
GNR 2011-H08 GI IO 01.2568 03/20/2061	0.01%
GNR 2010-62 SD IO 04.4063 05/20/2040	0.01%
GNR 2015-H18 IA IO 01.8118 06/20/2065	0.01%
GNR 2015-H25 EI IO 01.8442 10/20/2065	0.01%
GNR 2016-H06 HI IO 02.0560 02/20/2066	0.01%
FHR 4501 BI IO 03.5000 10/15/2043	0.01%
GNR 2010-3 MS IO 04.4663 11/20/2038	0.01%
FHR 4355 DI IO 04.0000 03/15/2044	0.01%
GNR 2011-156 SK IO 04.5163 04/20/2038	0.01%
SWPTN 5WX10Y R 2.85 USD 07/25/2018 CS	0.01%
GNR 2015-H20 AI IO 01.8211 08/20/2065	0.01%
CMB CMBX.NA.BB.7 2047-01-17 500.0 01/17/2047 GS	0.01%
GNR 2014-60 SE IO 04.0163 04/20/2044	0.01%
GNR 2015-H25 CI IO 01.4600 10/20/2065	0.00%
GNR 2015-H26 DI IO 01.4175 10/20/2065	0.00%
FNR 2013-6 JI IO 03.0000 02/25/2043	0.00%
GNR 2015-20 PI IO 03.5000 02/20/2045	0.00%
GNR 2014-133 IP IO 05.0000 09/16/2044	0.00%
SWPTN 6WX10Y R 2.865 USD 07/30/2018 JP	0.00%
GNR 2015-64 PI IO 03.5000 05/20/2045	0.00%
FNR 2013-41 SP IO 04.1089 06/25/2040	0.00%
CAS 2015-C02 2M2 06.0911 05/25/2025	0.00%
GNR 2016-77 SC IO 04.0163 10/20/2045	0.00%
GNR 2014-H09 AI IO 01.4281 01/20/2064	0.00%
GNR 2010-50 QS IO 04.4663 12/20/2038	0.00%
CMB CMBX.NA.BBB-.7 2047-01-17 300.0 01/17/2047 ML	0.00%
LBUBS 2006-C6 B 05.4720 09/15/2039	0.00%
GNR 2016-154 AI IO 05.0000 02/20/2041	0.00%
GNR 2015-H16 XI IO 01.7617 07/20/2065	0.00%
GNR 2015-H23 BI IO 01.7223 09/20/2065	0.00%
GNR 2013-182 SY IO 04.0163 12/20/2043	0.00%
GNR 2016-H04 KI IO 01.3917 02/20/2066	0.00%
GNR 2010-35 UI IO 05.0000 03/20/2040	0.00%
GNR 2015-H26 GI IO 01.7873 10/20/2065	0.00%
FNR 2012-86 CS IO 04.0089 04/25/2039	0.00%
GNR 2016-167 SB IO 03.9163 04/20/2038	0.00%
GNR 2010-9 QI IO 04.5000 01/20/2040	0.00%
2.90 R ISWP FWD US0003M P 09/19/2023	0.00%
GNR 2015-82 GI IO 03.5000 12/20/2038	0.00%

## Putnam Mortgage Opportunities Fund

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## Security Detail

Security Description	Percent of Portfolio
FHR 4073 AS IO 03.9768 08/15/2038	0.00%
GNR 2014-115 EI IO 04.0000 06/20/2038	0.00%
2.91024 R ISWP US0003M P 07/02/2028	0.00%
GNR 2015-H26 CI IO 00.7167 08/20/2065	0.00%
GNR 2015-H09 BI IO 01.6891 03/20/2065	0.00%
GNR 2009-121 UI IO 05.0000 12/20/2039	0.00%
CMB CMBX.NA.BB.7 2047-01-17 500.0 01/17/2047 GS	0.00%
SWPTN 6WX10Y P 3.115 USD 07/30/2018 JP	0.00%
IOS.FN30.350.12 P USL1M R 01/12/43 GS	0.00%
IOS.FN30.350.12 P USL1M R 01/12/43 BC	0.00%
CMB CMBX.NA.BB.7 2047-01-17 500.0 01/17/2047 GS	0.00%
FNR 2016-104 NI IO 05.0000 04/25/2038	0.00%
SWPTN 1MX10Y P 3.135 USD 07/13/2018 GS	0.00%
IOS.FN30.400.13 P USL1M R 01/12/44 JP	0.00%
OPTN FN30 3.5 07/05/18 PUT 98.90625 JPMC	0.00%
IOS.FN30.400.10 P USL1M R 01/12/41 BC	0.00%
CMB CMBX.NA.BB.7 2047-01-17 500.0 01/17/2047 GS	0.00%
CMB CMBX.NA.BB.7 2047-01-17 500.0 01/17/2047 JP	0.00%
IOS.FN30.400.10 P USL1M R 01/12/41 BC	0.00%
CMB CMBX.NA.BB.7 2047-01-17 500.0 01/17/2047 JP	0.00%
SWPTN 5WX10Y P 3.115 USD 07/09/2018 CI	0.00%
CMB CMBX.NA.BBB-.7 2047-01-17 300.0 01/17/2047 JP	0.00%
OPTN FN30 3.5 07/05/18 PUT 98.75 JPMC	0.00%
CGCMT 2006-C4 B 06.3950 03/15/2049	0.00%
CMB CMBX.NA.A.7 2047-01-17 200.0 01/17/2047 CS	0.00%
OPTN FN30 3.5 07/05/18 PUT 98.59375 JPMC	0.00%
IOS.FN30.300.13 P USL1M R 01/12/44 GS	0.00%
CMB CMBX.NA.BBB-.7 2047-01-17 300.0 01/17/2047 JP	0.00%
2.9245 R ISWP US0003M P 07/03/2028	0.00%
2.92287 R ISWP US0003M P 07/03/2028	0.00%
CMB CMBX.NA.A.6 2063-05-11 200.0 05/11/2063 GS	0.00%
OPTN FN30 3.5 07/05/18 PUT 98.234375 JPMC	0.00%
OPTN FN30 3.5 07/05/18 PUT 97.875 JPMC	0.00%
OPTN FN30 3.5 07/05/18 PUT 98.03125 JPMC	0.00%
OPTN FN30 3.5 07/05/18 PUT 98.390625 JPMC	0.00%
OPTN FN30 3.5 07/05/18 PUT 98.1875 JPMC	0.00%
CMB CMBX.NA.A.6 2063-05-11 200.0 05/11/2063 CS	0.00%
OPTN FN30 3.5 07/05/18 PUT 98.546875 JPMC	0.00%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	0.00%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	0.00%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 MS	0.00%

Security Detail

Security Description	Percent of Portfolio
CMB CMBX.NA.A.6 2063-05-11 200.0 05/11/2063 MS	0.00%
CMB CMBX.NA.BBB-.7 2047-01-17 300.0 01/17/2047 GS	0.00%
CMB CMBX.NA.BBB-.7 2047-01-17 300.0 01/17/2047 BC	0.00%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	0.00%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	0.00%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 MS	0.00%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	0.00%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	0.00%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	0.00%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	0.00%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 JP	0.00%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 JP	0.00%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 JP	0.00%
IOS.FN30.400.13 R USL1M P 01/12/44 JP	0.00%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	0.00%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 JP	0.00%
CMB CMBX.NA.A.6 2063-05-11 200.0 05/11/2063 GS	0.00%
CMB CMBX.NA.A.6 2063-05-11 200.0 05/11/2063 GS	0.00%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 JP	0.00%
IOS.FN30.400.13 R USL1M P 01/12/44 CS	0.00%
IOS.FN30.400.14 R USL1M P 01/12/45 CS	0.00%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	0.00%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	0.00%
IOS.FN30.400.14 R USL1M P 01/12/45 GS	0.00%
CMB CMBX.NA.BBB-.7 2047-01-17 300.0 01/17/2047 CS	0.00%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	0.00%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	0.00%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 JP	0.00%
IOS.FN30.400.10 R USL1M P 01/12/41 CS	0.00%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	0.00%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 JP	0.00%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 JP	0.00%
2.98 R ISWP FWD US0003M P 07/27/2028	0.00%
SWPTN 5WX10Y P 3.03 USD 07/09/2018 CI	0.00%
CMB CMBX.NA.BBB-.7 2047-01-17 300.0 01/17/2047 GS	0.00%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 MS	0.00%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 MS	0.00%
CMB CMBX.NA.BBB-.7 2047-01-17 300.0 01/17/2047 GS	0.00%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 JP	0.00%
2.9035 R ISWP US0003M P 06/27/2023	0.00%
CMB CMBX.NA.BBB-.7 2047-01-17 300.0 01/17/2047 GS	0.00%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	0.00%

Security Detail

Security Description	Percent of Portfolio
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 CG	0.00%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	0.00%
2.9715 R ISWP US0003M P 06/26/2028	0.00%
SWPTN 1MX10Y P 3.05 USD 07/13/2018 GS	0.00%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 CG	0.00%
SWPTN 5WX10Y P 3.1225 USD 07/23/2018 MS	0.00%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	0.00%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 JP	0.00%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 JP	0.00%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	0.00%
OPTN FN30 3.0 07/05/18 PUT 96.4765625 JPMC	0.00%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 MS	0.00%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 MS	0.00%
SWPTN 5WX10Y P 3.1 USD 07/25/2018 CS	0.00%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 CG	0.00%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 CG	0.00%
CMB CMBX.NA.BBB-.7 2047-01-17 300.0 01/17/2047 GS	0.00%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	0.00%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	0.00%
SWPTN 14WX10Y P 3.255 USD 08/28/2018 MS	0.00%
IOS.FN30.350.12 R USL1M P 01/12/43 CS	0.00%
SWPTN 6WX10Y P 3.126 USD 08/03/2018 CI	0.00%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 JP	0.00%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 MS	0.00%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 CS	0.00%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 ML	0.00%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 JP	0.00%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 MS	0.00%
SWPTN 3MX10Y P 3.24 USD 09/21/2018 MS	0.00%
CMB CMBX.NA.BB.6 2063-05-11 500.0 05/11/2063 JP	0.00%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 CS	0.00%
2.976 R ISWP FWD US0003M P 08/07/2028	0.00%
2.9398 R ISWP US0003M P 06/28/2028	0.00%
2.975 R ISWP FWD US0003M P 07/27/2028	0.00%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 JP	0.00%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 CS	0.00%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 JP	0.00%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 CS	0.00%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 CS	0.00%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	0.00%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 JP	0.00%



Security Detail

Security Description	Percent of Portfolio
2.955 R ISWP FWD US0003M P 07/18/2028	0.00%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 JP	0.00%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 JP	0.00%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 CG	0.00%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 CG	0.00%
OPTN FN30 3.5 09/06/18 PUT 97.3828125 JPMC	0.00%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 JP	-0.01%
CMB CMBX.NA.BBB-.7 2047-01-17 300.0 01/17/2047 GS	-0.01%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 CS	-0.01%
OPTN FN30 3.5 07/05/18 PUT 99.1953125 JPMC	-0.01%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 JP	-0.01%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 JP	-0.01%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 JP	-0.01%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 JP	-0.01%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 JP	-0.01%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 CS	-0.01%
OPTN FN30 3.5 09/06/18 PUT 97.5390625 JPMC	-0.01%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 JP	-0.01%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.01%
2.899 R ISWP US0003M P 07/03/2028	-0.01%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 CS	-0.01%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 CG	-0.01%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 JP	-0.01%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 CS	-0.01%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.01%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 MS	-0.01%
OPTN FN30 3.5 09/06/18 PUT 97.6953125 JPMC	-0.01%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 JP	-0.01%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 JP	-0.01%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.01%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.01%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 JP	-0.01%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.01%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 JP	-0.01%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 MS	-0.01%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 JP	-0.01%
OPTN FN30 3.5 09/06/18 PUT 97.953125 JPMC	-0.01%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 JP	-0.01%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 CS	-0.01%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 MS	-0.01%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.01%

Security Detail

Security Description	Percent of Portfolio
OPTN FN30 3.5 09/06/18 PUT 98.109375 JPMC	-0.01%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 JP	-0.01%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.01%
SWPTN 3MX10Y P 3.02 USD 07/27/2018 MS	-0.01%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 JP	-0.01%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.01%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 JP	-0.01%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 JP	-0.01%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 MS	-0.01%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 JP	-0.01%
OPTN FN30 3.5 09/06/18 PUT 98.265625 JPMC	-0.01%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 JP	-0.01%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 JP	-0.01%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 CS	-0.01%
CMB CMBX.NA.BBB-.7 2047-01-17 300.0 01/17/2047 MS	-0.01%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 CG	-0.01%
CMB CMBX.NA.BBB-.7 2047-01-17 300.0 01/17/2047 MS	-0.01%
2.875 R ISWP FWD US0003M P 09/19/2020	-0.01%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 MS	-0.02%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.02%
SWPTN 5WX10Y R 2.98 USD 07/25/2018 BC	-0.02%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.02%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.02%
CMB CMBX.NA.BB.6 2063-05-11 500.0 05/11/2063 JP	-0.02%
SWPTN 3MX10Y R 2.99 USD 09/21/2018 MS	-0.02%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 JP	-0.02%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 CS	-0.02%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 JP	-0.02%
SWPTN 5WX10Y R 2.9725 USD 07/23/2018 MS	-0.02%
SWPTN 5WX10Y R 3.03 USD 07/09/2018 CI	-0.02%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 MS	-0.02%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 JP	-0.02%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.02%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.02%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 JP	-0.02%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 JP	-0.02%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.02%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 ML	-0.02%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 JP	-0.02%
SWPTN 1MX10Y R 3.05 USD 07/13/2018 GS	-0.02%
CMB CMBX.NA.BB.6 2063-05-11 500.0 05/11/2063 CS	-0.02%

Security Detail

Security Description	Percent of Portfolio
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.02%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.03%
CMB CMBX.NA.BB.6 2063-05-11 500.0 05/11/2063 MS	-0.03%
CMB CMBX.NA.BB.6 2063-05-11 500.0 05/11/2063 ML	-0.03%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 CG	-0.03%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 JP	-0.03%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.03%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 CG	-0.03%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 JP	-0.04%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 CG	-0.04%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 CG	-0.04%
SWPTN 3MX10Y R 3.02 USD 07/27/2018 MS	-0.04%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 JP	-0.05%
CMB CMBX.NA.BB.6 2063-05-11 500.0 05/11/2063 JP	-0.05%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 CG	-0.05%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 MS	-0.06%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 JP	-0.06%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.07%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 CS	-0.08%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 CG	-0.09%
SWPTN 3WX10Y R 2.955 USD 07/16/2018 CI	-0.10%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 CS	-0.11%
CMB CMBX.NA.BBB-.7 2047-01-17 300.0 01/17/2047 JP	-0.12%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 JP	-0.14%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 JP	-0.16%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.18%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.22%
CMB CMBX.NA.BBB-.7 2047-01-17 300.0 01/17/2047 CG	-0.22%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 JP	-0.37%
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 JP	-0.99%
FNMA FN30 TBA 04.5000 07/01/2048	-1.48%
FNMA FN30 TBA 03.5000 07/01/2048	-6.70%

Holdings are unaudited and will vary over time.

Consider these risks before investing: Bond prices may fall or fail to rise over time for several reasons, including general financial market conditions, changing market perceptions (including perceptions about the risk of default and expectations about monetary policy or interest rates), changes in government intervention in the financial and housing markets, and factors related to a specific issuer, industry, geography (such as a region of the United States), or sector (such as the housing or real estate markets). These and other factors may lead to increased volatility and reduced liquidity in the fund's portfolio holdings. Bond investments are subject to interest-rate risk (the risk of bond prices falling if interest rates rise) and credit risk (the risk of an issuer defaulting on interest or principal payments). Default risk is generally higher for non-qualified mortgages. Interest-rate risk is greater for longer-term bonds, and credit risk is greater for below-investment-grade bonds. Mortgage- and asset-backed securities are subject to prepayment risk and the risk that they may increase in value less than other bonds when interest rates decline and decline in value more than other bonds when interest rates rise. The fund's investments in mortgage-backed securities and asset-backed securities, and in certain other securities and derivatives, may be or become illiquid. The fund's concentration in an industry group comprising privately issued mortgage-backed securities and mortgage-backed securities issued or guaranteed by the U.S. government or its agencies or instrumentalities may make the fund's net asset value more susceptible to economic, market, political, and other developments affecting the housing or real estate markets. Risks associated with derivatives include increased investment exposure (which may be considered leverage) and, in the case of over-the-counter instruments, the potential inability to terminate or sell derivatives positions and the potential failure of the other party to the instrument to meet its obligations. Our use of short selling may result in losses if the securities appreciate in value. You can lose money by investing in the fund.

Please review the prospectus carefully. It includes investment objectives, risks, fees, expenses, and other information that you should read and consider carefully before investing. For a copy of the prospectus, call 800-487-0024, or visit the following website:  
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Putnam Retail Management

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