

## Putnam Ultra Short Duration Income Fund

As of 12/31/2019

## Security Detail

Issuer Name	Cusip	Security Type	Principal Amount	Maturity Date <sup>1</sup>	Percent of Portfolio
FANNIE MAE REMICS	31397SAY0	Agency CMO	64	6/25/2020	0.00%
FANNIE MAE REMICS	31398RCS2	Agency CMO	1,167	1/25/2021	0.00%
FANNIE MAE REMICS	31358NCV2	Agency CMO	210	5/25/2022	0.00%
FANNIE MAE REMICS	31397NEB7	Agency CMO	33	3/25/2024	0.00%
FANNIE MAE REMICS	31397Q5M6	Agency CMO	1,746	9/25/2025	0.00%
FANNIE MAE REMICS	31394EGS1	Agency CMO	530,990	10/25/2031	0.00%
FANNIE MAE REMICS	31393A5B9	Agency CMO	65,764	3/25/2033	0.00%
FANNIE MAE REMICS	31396KMG4	Agency CMO	241,974	8/25/2036	0.00%
FANNIE MAE REMICS	31396YHT2	Agency CMO	7,430	2/25/2038	0.00%
FANNIE MAE REMICS	31397U3J6	Agency CMO	9,579	10/25/2039	0.00%
FANNIE MAE REMICS	31398TH53	Agency CMO	52,572	7/25/2040	0.00%
FANNIE MAE REMICS	31398TXE6	Agency CMO	525,974	8/25/2040	0.00%
FREDDIE MAC GOLD POOL	3132A6E41	Agency CMO	971	5/1/2021	0.00%
FREDDIE MAC REMICS	3133T12W1	Agency CMO	38,286	11/15/2023	0.00%
FREDDIE MAC REMICS	31398LSE9	Agency CMO	38,325	7/15/2034	0.00%
FREDDIE MAC REMICS	31398EHW7	Agency CMO	11,934	5/15/2037	0.00%
FREDDIE MAC REMICS	31397HJC3	Agency CMO	44,411	5/15/2037	0.00%
FREDDIE MAC REMICS	3137A1Z30	Agency CMO	121,317	6/15/2037	0.00%
GNMA	38374UBP5	Agency CMO	13,048	5/16/2039	0.00%
FANNIE MAE POOL	31403C2Z3	Agency pass-through	12	6/1/2020	0.00%
FANNIE MAE POOL	3138EBZ4	Agency pass-through	4,680	5/1/2023	0.00%
FANNIE MAE POOL	31418MSV5	Agency pass-through	1,316	11/1/2023	0.00%
BARCLAYS BANK PLC CCP	06742VBE0	Asset-backed commercial paper	50,000,000	2/11/2020	0.27%
CHARIOT FUNDING LLC	15963RBD4	Asset-backed commercial paper	50,000,000	2/5/2020	0.27%
OLD LINE FUNDING LLC	67984XFZ4	Asset-backed commercial paper	50,000,000	2/10/2020	0.27%
SHEFFIELD RECEIVABLES CO LLC	82124LDG4	Asset-backed commercial paper	45,000,000	4/16/2020	0.24%
AMERICAN EXPRESS CREDIT ACCOUNT MASTER TRUST	02582JIM3	Asset-backed securities	58,000,000	4/15/2025	0.31%
CARMAX AUTO OWNER TRUST 2019-3	14315PAD7	Asset-backed securities	5,300,000	8/15/2024	0.03%
CHASE ISSUANCE TRUST	161571FQ2	Asset-backed securities	25,615,000	9/15/2024	0.14%
FINANCE OF AMERICA STRUCTURED SECURITIES TRUST 2019-HB1	31739HAA3	Asset-backed securities	5,702,834	4/25/2029	0.03%
FORD CREDIT FLOORPLAN MASTER OWNER TRUST A	34528QDX9	Asset-backed securities	7,034,000	1/15/2022	0.04%
GOLDEN CREDIT CARD TRUST	380881EK4	Asset-backed securities	25,202,000	1/15/2023	0.14%
HYUNDAI AUTO RECEIVABLES TRUST	44891JAC2	Asset-backed securities	6,750,000	2/15/2024	0.04%
MELLO WAREHOUSE SECURITIZATION TRUST 2018-1	585492AA9	Asset-backed securities	13,368,667	11/25/2051	0.07%
MELLO WAREHOUSE SECURITIZATION TRUST 2019-1	585503AA3	Asset-backed securities	21,799,000	6/25/2052	0.12%
MERCEDES-BENZ AUTO RECEIVABLES TRUST 2019-1	58769TAD7	Asset-backed securities	34,000,000	3/15/2024	0.18%
NISSAN AUTO RECEIVABLES 2017-B OWNER TRUST	65478GAE0	Asset-backed securities	18,120,000	10/16/2023	0.10%
NISSAN AUTO RECEIVABLES 2019-C OWNER TRUST	65479JAD5	Asset-backed securities	20,500,000	7/15/2024	0.11%
RMF BUYOUT ISSUANCE TRUST 2018-1	76971BAA8	Asset-backed securities	2,886,764	11/25/2028	0.02%
STATION PLACE SECURITIZATION TRUST SERIES 2019-WL1	85769FAA6	Asset-backed securities	27,906,000	8/25/2052	0.15%
TOWD POINT ASSET TRUST 2018-SL1	89174UAA4	Asset-backed securities	2,323,693	1/25/2046	0.01%

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TOYOTA AUTO RECEIVABLES 2017-C OWNER TRUST	89237RAE8	Asset-backed securities	1,775,000	12/15/2022	0.01%
WORLD OMNI AUTO RECEIVABLES TRUST 2018-C	98163EAD8	Asset-backed securities	34,107,000	11/15/2023	0.19%
BANK OF NOVA SCOTIA/HOUSTON	06417MBJ3	Certificate of deposit	49,000,000	9/9/2020	0.27%
BNP PARIBAS SA/NEW YORK NY	05586FAB3	Certificate of deposit	47,000,000	8/3/2020	0.25%
CANADIAN IMPERIAL BANK OF COMMERCE/NEW YORK NY	13606C4E1	Certificate of deposit	22,000,000	1/13/2020	0.12%
CANADIAN IMPERIAL BANK OF COMMERCE/NEW YORK NY	13606B5L6	Certificate of deposit	80,000,000	9/30/2020	0.43%
CANADIAN IMPERIAL BANK OF COMMERCE/NEW YORK NY	13606B5R3	Certificate of deposit	38,000,000	10/9/2020	0.21%
CREDIT AGRICOLE CORPORATE AND INVESTMENT BANK/NEW YORK	22532XJG4	Certificate of deposit	21,250,000	5/11/2020	0.12%
GOLDMAN SACHS BANK USA/NEW YORK NY	40054PBN4	Certificate of deposit	36,000,000	12/10/2020	0.20%
MIZUHO BANK LTD/NEW YORK NY	60710AGM8	Certificate of deposit	56,500,000	6/8/2020	0.31%
NATIXIS SA/NEW YORK NY	63873N2C4	Certificate of deposit	51,250,000	12/11/2020	0.28%
NORDEA BANK ABP/NEW YORK NY	65558TKJ3	Certificate of deposit	47,000,000	7/24/2020	0.25%
NORDEA BANK ABP/NEW YORK NY	65558TQC2	Certificate of deposit	35,000,000	2/12/2021	0.19%
NORDEA BANK ABP/NEW YORK NY	65558TEF8	Certificate of deposit	28,000,000	2/12/2021	0.15%
NORDEA BANK ABP/NEW YORK NY	65558TQJ7	Certificate of deposit	57,000,000	11/19/2021	0.31%
RABOBANK NEDERLAND NV NY	21684L3W0	Certificate of deposit	32,500,000	6/17/2021	0.18%
RABOBANK NEDERLAND NV NY	21684L5B4	Certificate of deposit	28,500,000	9/24/2021	0.15%
SKANDINAVISKA ENSKILDA BANKEN AB/NEW YORK NY	83050PCF4	Certificate of deposit	47,000,000	7/20/2020	0.25%
STANDARD CHARTERED BANK/NEW YORK	85325T4J1	Certificate of deposit	52,000,000	11/6/2020	0.28%
STATE STREET BANK AND TRUST CO	8574P1MK9	Certificate of deposit	130,000,000	7/20/2020	0.70%
SUMITOMO MITSUI BANKING CORP/NEW YORK	86565BZV6	Certificate of deposit	28,000,000	5/13/2021	0.15%
SUMITOMO MITSUI BANKING CORP/NEW YORK	86565BG39	Certificate of deposit	27,900,000	7/12/2021	0.15%
SVENSKA HANDELSBANKEN/NEW YORK NY	86958JB65	Certificate of deposit	14,750,000	4/1/2020	0.08%
SVENSKA HANDELSBANKEN/NEW YORK NY	86959RBA7	Certificate of deposit	23,000,000	7/24/2020	0.12%
SWEDBANK AB/NEW YORK	87019UW88	Certificate of deposit	28,500,000	8/24/2020	0.15%
TORONTO-DOMINION BANK/NY	89114NDU6	Certificate of deposit	22,250,000	3/19/2020	0.12%
AEGON FUNDING CO LLC	0076C2AD4	Commercial paper	34,547,000	1/13/2020	0.19%
AMEREN CORP	02360RA26	Commercial paper	29,250,000	1/2/2020	0.16%
AMERICAN ELECTRIC POWER CO INC	0255E2A83	Commercial paper	50,000,000	1/8/2020	0.27%
AMERICAN ELECTRIC POWER CO INC	0255E2AD2	Commercial paper	46,750,000	1/13/2020	0.25%
AMERICAN ELECTRIC POWER CO INC	0255E2AF7	Commercial paper	28,000,000	1/15/2020	0.15%
AMERICAN EXPRESS CREDIT CORP	02581RD34	Commercial paper	5,000,000	4/3/2020	0.03%
AUTONATION INC	05330LA29	Commercial paper	64,000,000	1/2/2020	0.35%
AUTONATION INC	05330LA78	Commercial paper	17,750,000	1/7/2020	0.10%
AUTOZONE INC	05333TAA1	Commercial paper	32,000,000	1/10/2020	0.17%
BELL CANADA INC	07787PAP3	Commercial paper	37,000,000	1/23/2020	0.20%
BEMIS CO INC	08143TAD9	Commercial paper	39,250,000	1/13/2020	0.21%
BEMIS CO INC	08143TAQ0	Commercial paper	11,638,000	1/24/2020	0.06%
BEMIS CO INC	08143TAU1	Commercial paper	46,750,000	1/28/2020	0.25%
BEMIS CO INC	08143TAX5	Commercial paper	46,000,000	1/31/2020	0.25%
BOSTON SCIENTIFIC CORP	10114AA82	Commercial paper	23,250,000	1/8/2020	0.13%

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BOSTON SCIENTIFIC CORP	10114AAF6	Commercial paper	9,500,000	1/15/2020	0.05%
BOSTON SCIENTIFIC CORP	10114AAU3	Commercial paper	12,200,000	1/28/2020	0.07%
BPCE SA	05571BEK5	Commercial paper	32,400,000	5/19/2020	0.17%
CANADIAN NATURAL RESOURCES LTD	13638WAN2	Commercial paper	37,500,000	1/22/2020	0.20%
CANADIAN NATURAL RESOURCES LTD	13638WAQ5	Commercial paper	37,500,000	1/24/2020	0.20%
CENTERPOINT ENERGY INC	1518T2A20	Commercial paper	28,000,000	1/2/2020	0.15%
CENTERPOINT ENERGY INC	1518T2AH7	Commercial paper	23,500,000	1/17/2020	0.13%
CENTERPOINT ENERGY INC	1518T2AT1	Commercial paper	23,500,000	1/27/2020	0.13%
CIGNA CORP	12553NBB0	Commercial paper	15,000,000	2/11/2020	0.08%
CNH INDUSTRIAL CAPITAL LLC	18977GA62	Commercial paper	4,500,000	1/6/2020	0.02%
CNH INDUSTRIAL CAPITAL LLC	18977GA96	Commercial paper	18,750,000	1/9/2020	0.10%
CNH INDUSTRIAL CAPITAL LLC	18977GKL8	Commercial paper	23,500,000	10/20/2020	0.12%
CONSOLIDATED EDISON INC	20911TA85	Commercial paper	43,200,000	1/8/2020	0.23%
CROWN CASTLE INTERNATIONAL CORP	22823PAD5	Commercial paper	28,750,000	1/13/2020	0.16%
CROWN CASTLE INTERNATIONAL CORP	22823PAE3	Commercial paper	19,000,000	1/14/2020	0.10%
DNB BANK ASA	2332K4JY1	Commercial paper	47,000,000	7/22/2020	0.25%
DOLLAR GENERAL CORP	25667LA87	Commercial paper	28,000,000	1/8/2020	0.15%
DOMINION ENERGY INC	2574P0BJ2	Commercial paper	55,000,000	2/18/2020	0.30%
DTE ENERGY CO	23333FAQ9	Commercial paper	1,110,000	1/24/2020	0.01%
DUKE ENERGY CORP	26244HAN3	Commercial paper	12,150,000	1/22/2020	0.07%
DUKE ENERGY CORP	26244HAU7	Commercial paper	20,000,000	1/28/2020	0.11%
DUPONT DE NEMOURS INC	26082MAW7	Commercial paper	17,500,000	1/30/2020	0.09%
DUPONT DE NEMOURS INC	26082MBE6	Commercial paper	36,000,000	2/14/2020	0.19%
ENBRIDGE US INC	29251UB31	Commercial paper	54,250,000	2/3/2020	0.29%
ENBRIDGE US INC	29251UB49	Commercial paper	23,500,000	2/4/2020	0.13%
ENCANA CORP	29250AA78	Commercial paper	79,500,000	1/7/2020	0.43%
ENCANA CORP	29250AAH6	Commercial paper	26,250,000	1/17/2020	0.14%
ENCANA CORP	29250AAN3	Commercial paper	6,500,000	1/22/2020	0.04%
ENGIE SA	29287AD15	Commercial paper	27,250,000	4/1/2020	0.15%
ENGIE SA	29287AD72	Commercial paper	33,500,000	4/7/2020	0.18%
ENGIE SA	29287ADF4	Commercial paper	11,685,000	4/15/2020	0.06%
ENTERGY CORP	29366EB54	Commercial paper	39,000,000	2/5/2020	0.21%
ENTERGY CORP	29366EBL9	Commercial paper	8,375,000	2/20/2020	0.05%
ENTERGY CORP	29366EBM7	Commercial paper	36,000,000	2/21/2020	0.19%
ENTERGY CORP	29366EC95	Commercial paper	46,750,000	3/9/2020	0.25%
ENTERGY CORP	29366ECA2	Commercial paper	10,000,000	3/10/2020	0.05%
ERAC USA FINANCE LLC	26882RAG3	Commercial paper	35,000,000	1/16/2020	0.19%
ERAC USA FINANCE LLC	26882RAH1	Commercial paper	28,000,000	1/17/2020	0.15%
ERAC USA FINANCE LLC	26882RAP3	Commercial paper	22,314,000	1/23/2020	0.12%
ERP OPERATING LP	26885TB34	Commercial paper	32,500,000	2/3/2020	0.18%
ERP OPERATING LP	26885TC41	Commercial paper	46,750,000	3/4/2020	0.25%

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ERP OPERATING LP	26885TCJ8	Commercial paper	60,750,000	3/18/2020	0.33%
ETP LEGACY LP	29277EA20	Commercial paper	149,000,000	1/2/2020	0.81%
EVERSOURCE ENERGY	30040XAD8	Commercial paper	17,262,000	1/13/2020	0.09%
FORD MOTOR CREDIT CO LLC	3454G0AM0	Commercial paper	3,700,000	1/21/2020	0.02%
FORTIVE CORP	34961DA98	Commercial paper	14,000,000	1/9/2020	0.08%
FORTIVE CORP	34961DAE7	Commercial paper	45,000,000	1/14/2020	0.24%
FORTIVE CORP	34961DAM9	Commercial paper	36,500,000	1/21/2020	0.20%
GLAXOSMITHKLINE FINANCE PLC	3773E2C64	Commercial paper	36,000,000	3/6/2020	0.19%
HAWAIIAN ELECTRIC CO INC	41986AA66	Commercial paper	36,500,000	1/6/2020	0.20%
HAWAIIAN ELECTRIC INDUSTRIES INC	41987KA22	Commercial paper	25,750,000	1/2/2020	0.14%
HAWAIIAN ELECTRIC INDUSTRIES INC	41987KA63	Commercial paper	17,000,000	1/6/2020	0.09%
HAWAIIAN ELECTRIC INDUSTRIES INC	41987KA71	Commercial paper	23,500,000	1/7/2020	0.13%
HEALTHPEAK PROPERTIES INC	42250QA92	Commercial paper	29,000,000	1/9/2020	0.16%
HUMANA INC	44486HA60	Commercial paper	46,750,000	1/6/2020	0.25%
ING US FUNDING LLC	44988GBE7	Commercial paper	23,500,000	4/2/2020	0.13%
ING US FUNDING LLC	44988GBA5	Commercial paper	29,500,000	6/25/2020	0.16%
INTESA SANPAOLO FUNDING LLC	4611K0CJ4	Commercial paper	93,500,000	3/18/2020	0.50%
KEURIG DR PEPPER INC	49271JAV9	Commercial paper	15,500,000	1/29/2020	0.08%
KEURIG DR PEPPER INC	49271JB63	Commercial paper	17,750,000	2/6/2020	0.10%
KEURIG DR PEPPER INC	49271JB71	Commercial paper	40,000,000	2/7/2020	0.22%
KROGER CO/THE	50104LA60	Commercial paper	39,500,000	1/6/2020	0.21%
LLOYDS BANK PLC	53946BEA5	Commercial paper	47,000,000	4/20/2020	0.25%
LVMH MOET HENNESSY LOUIS VUITTON INC	55078TBE6	Commercial paper	37,500,000	2/14/2020	0.20%
MACQUARIE BANK LTD	55607NHA1	Commercial paper	40,000,000	7/9/2020	0.22%
MARRIOTT INTERNATIONAL INC/MD	57163TBR9	Commercial paper	23,550,000	2/25/2020	0.13%
MARRIOTT INTERNATIONAL INC/MD	57163TBS7	Commercial paper	37,500,000	2/26/2020	0.20%
MARRIOTT INTERNATIONAL INC/MD	57163TBU2	Commercial paper	37,500,000	2/28/2020	0.20%
MARRIOTT INTERNATIONAL INC/MD	57163TCG2	Commercial paper	15,000,000	3/16/2020	0.08%
MONDELEZ INTERNATIONAL INC	60920VA28	Commercial paper	13,000,000	1/2/2020	0.07%
NATIONAL GRID ELECTRICITY TRANSMISSION PLC	6362N2A73	Commercial paper	23,000,000	1/7/2020	0.12%
NATIONAL GRID ELECTRICITY TRANSMISSION PLC	6362N2AE8	Commercial paper	8,600,000	1/14/2020	0.05%
NATIONAL GRID ELECTRICITY TRANSMISSION PLC	6362N2AM0	Commercial paper	47,000,000	1/21/2020	0.25%
NATIONAL GRID ELECTRICITY TRANSMISSION PLC	6362N2AN8	Commercial paper	11,900,000	1/22/2020	0.06%
NATIONAL GRID ELECTRICITY TRANSMISSION PLC	6362N2AW8	Commercial paper	47,000,000	1/30/2020	0.25%
NATIONWIDE BUILDING SOCIETY	6385E0A86	Commercial paper	27,850,000	1/8/2020	0.15%
NATIONWIDE BUILDING SOCIETY	6385E0AG8	Commercial paper	49,500,000	1/16/2020	0.27%
NISOURCE INC	65478JAG9	Commercial paper	32,750,000	1/16/2020	0.18%
NISOURCE INC	65478JAN4	Commercial paper	32,500,000	1/22/2020	0.18%
NISSAN MOTOR ACCEPTANCE CORP	65475LB76	Commercial paper	33,000,000	2/7/2020	0.18%
NISSAN MOTOR ACCEPTANCE CORP	65475LBQ4	Commercial paper	15,000,000	2/24/2020	0.08%
NRW BANK	62939LBL2	Commercial paper	46,750,000	2/20/2020	0.25%

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NRW BANK	62939LBR9	Commercial paper	89,000,000	2/25/2020	0.48%
NRW BANK	62939LCA5	Commercial paper	10,000,000	3/10/2020	0.05%
NUTRIEN LTD	67077UAQ3	Commercial paper	25,000,000	1/24/2020	0.14%
NUTRIEN LTD	67077UBA7	Commercial paper	46,750,000	2/10/2020	0.25%
ONEOK INC	68269EA69	Commercial paper	18,500,000	1/6/2020	0.10%
ONEOK INC	68269EA85	Commercial paper	28,000,000	1/8/2020	0.15%
PFIZER INC	71708EC94	Commercial paper	48,000,000	3/9/2020	0.26%
PFIZER INC	71708ECP8	Commercial paper	48,000,000	3/23/2020	0.26%
PLAINS ALL AMERICAN PIPELINE LP	72650WA27	Commercial paper	23,000,000	1/2/2020	0.12%
PLAINS ALL AMERICAN PIPELINE LP	72650WA92	Commercial paper	24,000,000	1/9/2020	0.13%
PPL CAPITAL FUNDING INC	69354GBA8	Commercial paper	24,370,000	2/10/2020	0.13%
PUGET SOUND ENERGY INC	74533AB64	Commercial paper	14,000,000	2/6/2020	0.08%
RECKITT BENCKISER TREASURY SERVICES PLC	7562E0A22	Commercial paper	32,500,000	1/2/2020	0.18%
RECKITT BENCKISER TREASURY SERVICES PLC	7562E0A97	Commercial paper	14,000,000	1/9/2020	0.08%
RECKITT BENCKISER TREASURY SERVICES PLC	7562E0BM7	Commercial paper	45,500,000	2/21/2020	0.25%
RECKITT BENCKISER TREASURY SERVICES PLC	7562E0C20	Commercial paper	28,000,000	3/2/2020	0.15%
ROGERS COMMUNICATIONS INC	77511LB69	Commercial paper	33,000,000	2/6/2020	0.18%
ROYAL BANK OF CANADA	78013VCK6	Commercial paper	32,500,000	3/19/2020	0.18%
SEMPRA GLOBAL	81685LAU9	Commercial paper	32,750,000	1/28/2020	0.18%
SEMPRA GLOBAL	81685LBA2	Commercial paper	10,000,000	2/10/2020	0.05%
SEMPRA GLOBAL	81685LBC8	Commercial paper	37,500,000	2/12/2020	0.20%
SHELL INTERNATIONAL FINANCE BV	8225X2F58	Commercial paper	94,000,000	6/5/2020	0.51%
SHELL INTERNATIONAL FINANCE BV	8225X2FS8	Commercial paper	25,000,000	6/26/2020	0.13%
SHERWIN-WILLIAMS CO/THE	82434TA26	Commercial paper	17,000,000	1/2/2020	0.09%
SHERWIN-WILLIAMS CO/THE	82434TA75	Commercial paper	18,750,000	1/7/2020	0.10%
SHERWIN-WILLIAMS CO/THE	82434TAE0	Commercial paper	49,500,000	1/14/2020	0.27%
SOCIETE GENERALE SA	83368YCW5	Commercial paper	44,000,000	5/12/2020	0.24%
SOCIETE GENERALE SA	83368YDB0	Commercial paper	33,500,000	6/3/2020	0.18%
SOCIETE GENERALE SA	83368YDE4	Commercial paper	14,700,000	6/15/2020	0.08%
SOCIETE GENERALE SA	83368YDM6	Commercial paper	28,000,000	10/1/2020	0.15%
SOCIETE GENERALE SA	83368YEB9	Commercial paper	45,000,000	12/9/2020	0.24%
SOUTHERN CO FUNDING CORP	8426E2AA7	Commercial paper	18,700,000	1/10/2020	0.10%
SOUTHERN CO GAS CAPITAL CORP	8426ELAH0	Commercial paper	36,000,000	1/17/2020	0.19%
SOUTHERN CO/THE	84262LA91	Commercial paper	12,875,000	1/9/2020	0.07%
SOUTHERN CO/THE	84262LAM2	Commercial paper	43,250,000	1/21/2020	0.23%
SOUTHERN CO/THE	84262LAQ3	Commercial paper	36,500,000	1/24/2020	0.20%
SUNCOR ENERGY INC	86723ABC5	Commercial paper	26,100,000	2/12/2020	0.14%
SUNCOR ENERGY INC	86723ABJ0	Commercial paper	13,250,000	2/18/2020	0.07%
SUNCOR ENERGY INC	86723ABK7	Commercial paper	18,500,000	2/19/2020	0.10%
SUNCOR ENERGY INC	86723ABL5	Commercial paper	28,000,000	2/20/2020	0.15%
SUNCOR ENERGY INC	86723AC59	Commercial paper	32,750,000	3/5/2020	0.18%

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SYSCO CORP	87183AA29	Commercial paper	37,250,000	1/2/2020	0.20%
TELUS CORP	87974PBD4	Commercial paper	45,000,000	2/13/2020	0.24%
TELUS CORP	87974PBM4	Commercial paper	14,000,000	2/21/2020	0.08%
TELUS CORP	87974PC50	Commercial paper	18,750,000	3/5/2020	0.10%
TRANSCANADA PIPELINES LTD	89355PBK3	Commercial paper	44,000,000	2/19/2020	0.24%
TRANSCANADA PIPELINES LTD	89355PC55	Commercial paper	17,000,000	3/5/2020	0.09%
TYSON FOODS INC	90247MAM7	Commercial paper	14,250,000	1/21/2020	0.08%
TYSON FOODS INC	90247MAT2	Commercial paper	7,000,000	1/27/2020	0.04%
UDR INC	90352PA66	Commercial paper	56,601,000	1/6/2020	0.31%
UDR INC	90352PB40	Commercial paper	47,000,000	2/4/2020	0.25%
UNION ELECTRIC CO	90655JA80	Commercial paper	37,500,000	1/8/2020	0.20%
VENTAS REALTY LP	92276VB53	Commercial paper	51,200,000	2/5/2020	0.28%
VENTAS REALTY LP	92276VBC8	Commercial paper	37,775,000	2/12/2020	0.20%
VIACOMCBS INC	92557KAX7	Commercial paper	42,000,000	1/31/2020	0.23%
VIACOMCBS INC	92557KBC2	Commercial paper	26,250,000	2/12/2020	0.14%
WALGREENS BOOTS ALLIANCE INC	93142WAT0	Commercial paper	29,000,000	1/27/2020	0.16%
WALGREENS BOOTS ALLIANCE INC	93142WBJ1	Commercial paper	23,250,000	2/18/2020	0.13%
WALGREENS BOOTS ALLIANCE INC	93142WBU6	Commercial paper	27,500,000	2/28/2020	0.15%
WALGREENS BOOTS ALLIANCE INC	93142WCB7	Commercial paper	33,500,000	3/11/2020	0.18%
WALGREENS BOOTS ALLIANCE INC	93142WCQ4	Commercial paper	14,000,000	3/24/2020	0.08%
WELLTOWER INC	95040WAG6	Commercial paper	47,300,000	1/16/2020	0.26%
WELLTOWER INC	95040WAN1	Commercial paper	12,750,000	1/22/2020	0.07%
WELLTOWER INC	95040WAP6	Commercial paper	18,750,000	1/23/2020	0.10%
WELLTOWER INC	95040WAQ4	Commercial paper	37,500,000	1/24/2020	0.20%
WESTPAC BANKING CORP	9612C4H38	Commercial paper	51,500,000	10/19/2020	0.28%
WRKCO INC	92940XAH0	Commercial paper	9,250,000	1/17/2020	0.05%
ABBVIE INC	00287YAT6	Investment-grade corporate bonds	24,300,000	5/14/2020	0.13%
ABBVIE INC	00287YBT5	Investment-grade corporate bonds	56,000,000	5/21/2021	0.30%
ABBVIE INC	00287YBJ7	Investment-grade corporate bonds	37,000,000	11/19/2021	0.20%
ABN AMRO BANK NV	00084DAQ3	Investment-grade corporate bonds	7,000,000	1/19/2021	0.04%
ABN AMRO BANK NV	00084DAR1	Investment-grade corporate bonds	46,350,000	1/19/2021	0.25%
ABN AMRO BANK NV	00084DAS9	Investment-grade corporate bonds	51,500,000	8/27/2021	0.28%
AIG GLOBAL FUNDING	00138CAD0	Investment-grade corporate bonds	8,236,000	7/2/2020	0.04%
AIG GLOBAL FUNDING	00138CAE8	Investment-grade corporate bonds	28,938,000	7/2/2020	0.16%
AIG GLOBAL FUNDING	00138CAJ7	Investment-grade corporate bonds	47,000,000	1/22/2021	0.26%
AIG GLOBAL FUNDING	00138CAH1	Investment-grade corporate bonds	20,134,000	6/25/2021	0.11%
ALLERGAN FUNDING SCS	00507UAP6	Investment-grade corporate bonds	38,592,000	3/12/2020	0.21%
AMAZON.COM INC	023135AT3	Investment-grade corporate bonds	19,900,000	8/21/2020	0.11%
AMERICAN EXPRESS CO	025816BQ1	Investment-grade corporate bonds	37,100,000	10/30/2020	0.20%
AMERICAN EXPRESS CO	025816BP3	Investment-grade corporate bonds	28,319,000	10/30/2020	0.15%
AMERICAN EXPRESS CO	025816BV0	Investment-grade corporate bonds	9,500,000	5/17/2021	0.05%



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AMERICAN EXPRESS CO	025816BZ1	Investment-grade corporate bonds	28,700,000	11/5/2021	0.16%
AMERICAN EXPRESS CO	025816CE7	Investment-grade corporate bonds	36,700,000	5/20/2022	0.20%
AMERICAN EXPRESS CREDIT CORP	0258M0EF2	Investment-grade corporate bonds	7,800,000	3/3/2020	0.04%
AMERICAN EXPRESS CREDIT CORP	0258M0DY2	Investment-grade corporate bonds	20,900,000	9/14/2020	0.11%
AMERICAN HONDA FINANCE CORP	02665WBN0	Investment-grade corporate bonds	14,700,000	2/14/2020	0.08%
AMERICAN INTERNATIONAL GROUP INC	026874CX3	Investment-grade corporate bonds	8,879,000	8/15/2020	0.05%
AMERICAN TOWER CORP	03027XAF7	Investment-grade corporate bonds	32,071,000	6/1/2020	0.17%
ANHEUSER-BUSCH INBEV FINANCE INC	035242AK2	Investment-grade corporate bonds	31,025,000	2/1/2021	0.17%
APPLE INC	037833CL2	Investment-grade corporate bonds	25,000,000	2/7/2020	0.14%
APPLIED MATERIALS INC	038222AH8	Investment-grade corporate bonds	12,018,000	10/1/2020	0.07%
AT&T INC	00206RDU3	Investment-grade corporate bonds	53,696,000	1/15/2020	0.29%
AT&T INC	00206RFZ0	Investment-grade corporate bonds	41,246,000	6/1/2021	0.22%
AT&T INC	00206RDV1	Investment-grade corporate bonds	64,763,000	7/15/2021	0.35%
AUSTRALIA & NEW ZEALAND BANKING GROUP LTD	05252ACU3	Investment-grade corporate bonds	28,950,000	8/19/2020	0.16%
AUSTRALIA & NEW ZEALAND BANKING GROUP LTD	05252ACY5	Investment-grade corporate bonds	24,900,000	11/9/2020	0.14%
AUSTRALIA & NEW ZEALAND BANKING GROUP LTD	05252ADC2	Investment-grade corporate bonds	14,625,000	5/17/2021	0.08%
AUSTRALIA & NEW ZEALAND BANKING GROUP LTD	05252ACR0	Investment-grade corporate bonds	3,000,000	11/23/2021	0.02%
AUSTRALIA & NEW ZEALAND BANKING GROUP LTD	05252ADE8	Investment-grade corporate bonds	24,180,000	11/21/2022	0.13%
AVALONBAY COMMUNITIES INC	05348EAP4	Investment-grade corporate bonds	4,300,000	1/15/2021	0.02%
AVIATION CAPITAL GROUP LLC	05369AAG6	Investment-grade corporate bonds	36,800,000	6/1/2021	0.20%
AVIATION CAPITAL GROUP LLC	05369AAE1	Investment-grade corporate bonds	16,960,000	7/30/2021	0.09%
BANCO BILBAO VIZCAYA ARGENTARIA SA	05946KAD3	Investment-grade corporate bonds	46,668,000	10/20/2020	0.25%
BANK OF AMERICA CORP	06051GFV6	Investment-grade corporate bonds	28,683,000	4/19/2021	0.16%
BANK OF AMERICA CORP	06051GGN3	Investment-grade corporate bonds	55,803,000	7/21/2021	0.30%
BANK OF AMERICA CORP	06051GGU7	Investment-grade corporate bonds	22,570,000	10/1/2021	0.12%
BANK OF AMERICA CORP	06051GGX1	Investment-grade corporate bonds	39,485,000	1/23/2022	0.21%
BANK OF AMERICA CORP	06051GHJ1	Investment-grade corporate bonds	29,807,000	6/25/2022	0.16%
BANK OF AMERICA CORP	06051GGJ2	Investment-grade corporate bonds	8,400,000	4/24/2023	0.05%
BANK OF MONTREAL	06367T7J3	Investment-grade corporate bonds	24,944,000	7/13/2020	0.14%
BANK OF MONTREAL	06367WHA4	Investment-grade corporate bonds	28,000,000	1/22/2021	0.15%
BANK OF MONTREAL	06367T4X5	Investment-grade corporate bonds	11,600,000	4/13/2021	0.06%
BANK OF MONTREAL	06367TJY7	Investment-grade corporate bonds	7,500,000	8/27/2021	0.04%
BANK OF MONTREAL	06367WQD8	Investment-grade corporate bonds	30,000,000	9/10/2021	0.16%
BANK OF MONTREAL	06367WJN4	Investment-grade corporate bonds	57,966,000	3/26/2022	0.32%
BANK OF NEW YORK MELLON CORP/THE	06406HDE6	Investment-grade corporate bonds	22,600,000	8/17/2020	0.12%
BANK OF NEW YORK MELLON CORP/THE	06406RAK3	Investment-grade corporate bonds	20,600,000	8/23/2022	0.11%
BANK OF NEW YORK MELLON/THE	06405LAB7	Investment-grade corporate bonds	52,000,000	6/4/2021	0.28%
BANK OF NOVA SCOTIA/THE	064159JY3	Investment-grade corporate bonds	25,518,000	7/14/2020	0.14%
BANK OF NOVA SCOTIA/THE	064159MJ2	Investment-grade corporate bonds	49,100,000	1/25/2021	0.27%
BANK OF NOVA SCOTIA/THE	064159JF4	Investment-grade corporate bonds	22,345,000	3/7/2022	0.12%
BANQUE FEDERATIVE DU CREDIT MUTUEL SA	06675FAK3	Investment-grade corporate bonds	13,770,000	7/20/2020	0.07%

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BANQUE FEDERATIVE DU CREDIT MUTUEL SA	06675FAL1	Investment-grade corporate bonds	73,900,000	7/20/2020	0.40%
BANQUE FEDERATIVE DU CREDIT MUTUEL SA	06675FAF4	Investment-grade corporate bonds	6,200,000	10/15/2020	0.03%
BARCLAYS BANK, PLC	06744CFV8	Investment-grade corporate bonds	25,500,000	8/7/2020	0.14%
BARCLAYS PLC	06738EAL9	Investment-grade corporate bonds	21,700,000	1/12/2021	0.12%
BBVA USA	20449EBT2	Investment-grade corporate bonds	3,933,000	4/1/2020	0.02%
BBVA USA	20453KAD7	Investment-grade corporate bonds	42,600,000	6/11/2021	0.23%
BECTON DICKINSON AND CO	075887BR9	Investment-grade corporate bonds	23,200,000	6/5/2020	0.13%
BELLSOUTH LLC	079860AA0	Investment-grade corporate bonds	9,750,000	4/26/2020	0.05%
BERKSHIRE HATHAWAY FINANCE CORP	084664CN9	Investment-grade corporate bonds	19,750,000	1/10/2020	0.11%
BIOGEN INC	09062XAC7	Investment-grade corporate bonds	82,368,000	9/15/2020	0.45%
BMW US CAPITAL LLC	05565EAQ8	Investment-grade corporate bonds	9,800,000	4/6/2020	0.05%
BMW US CAPITAL LLC	05565EAV7	Investment-grade corporate bonds	19,000,000	4/12/2021	0.10%
BMW US CAPITAL LLC	05565EBD6	Investment-grade corporate bonds	20,406,000	8/13/2021	0.11%
BNP PARIBAS SA	05579TED4	Investment-grade corporate bonds	36,820,000	5/21/2020	0.20%
BNP PARIBAS SA	05581KAE1	Investment-grade corporate bonds	27,000,000	8/7/2021	0.15%
BP CAPITAL MARKETS AMERICA INC	10373QAF7	Investment-grade corporate bonds	43,500,000	10/1/2020	0.24%
BP CAPITAL MARKETS PLC	05565QCT3	Investment-grade corporate bonds	36,400,000	1/15/2020	0.20%
BP CAPITAL MARKETS PLC	05565QDT2	Investment-grade corporate bonds	41,000,000	11/24/2020	0.22%
BPCE SA	05578DAR3	Investment-grade corporate bonds	27,744,000	1/27/2020	0.15%
BPCE SA	05578AAL2	Investment-grade corporate bonds	33,000,000	7/31/2020	0.18%
BRISTOL-MYERS SQUIBB CO	110122BC1	Investment-grade corporate bonds	4,200,000	8/15/2020	0.02%
BRISTOL-MYERS SQUIBB CO	110122CE6	Investment-grade corporate bonds	53,250,000	11/16/2020	0.29%
BRISTOL-MYERS SQUIBB CO	110122CF3	Investment-grade corporate bonds	9,300,000	5/16/2022	0.05%
CANADIAN IMPERIAL BANK OF COMMERCE	136069XZ9	Investment-grade corporate bonds	27,300,000	2/2/2021	0.15%
CANADIAN IMPERIAL BANK OF COMMERCE	136069TZ4	Investment-grade corporate bonds	6,300,000	6/16/2022	0.03%
CAPITAL ONE FINANCIAL CORP	14040HBP9	Investment-grade corporate bonds	54,340,000	5/12/2020	0.29%
CAPITAL ONE FINANCIAL CORP	14040HBR5	Investment-grade corporate bonds	4,827,000	10/30/2020	0.03%
CAPITAL ONE FINANCIAL CORP	14040HBV6	Investment-grade corporate bonds	10,955,000	1/30/2023	0.06%
CAPITAL ONE NA	14042RFH9	Investment-grade corporate bonds	46,500,000	1/31/2020	0.25%
CHARLES SCHWAB CORP/THE	808513AV7	Investment-grade corporate bonds	28,500,000	5/21/2021	0.15%
CHEVRON CORP	166764BQ2	Investment-grade corporate bonds	24,950,000	3/3/2020	0.14%
CIGNA CORP	125523AA8	Investment-grade corporate bonds	45,615,000	3/17/2020	0.25%
CIGNA CORP	125523CG3	Investment-grade corporate bonds	55,000,000	9/15/2020	0.30%
CIGNA CORP	125523AD2	Investment-grade corporate bonds	28,100,000	9/17/2020	0.15%
CITIBANK NA	17325FAX6	Investment-grade corporate bonds	23,000,000	5/20/2022	0.13%
CITIGROUP INC	172967KC4	Investment-grade corporate bonds	18,205,000	10/26/2020	0.10%
CITIGROUP INC	172967KL4	Investment-grade corporate bonds	60,863,000	3/30/2021	0.33%
CITIGROUP INC	172967KW0	Investment-grade corporate bonds	28,093,000	8/2/2021	0.15%
CITIGROUP INC	172967LB5	Investment-grade corporate bonds	32,745,000	12/8/2021	0.18%
CITIGROUP INC	172967LH2	Investment-grade corporate bonds	28,085,000	4/25/2022	0.15%
CITIZENS BANK NA/PROVIDENCE RI	17401QAH4	Investment-grade corporate bonds	37,900,000	3/2/2020	0.21%



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CITIZENS BANK NA/PROVIDENCE RI	17401QAJ0	Investment-grade corporate bonds	7,610,000	5/26/2020	0.04%
CITIZENS BANK NA/PROVIDENCE RI	17401QAK7	Investment-grade corporate bonds	49,176,000	5/26/2020	0.27%
CITIZENS BANK NA/PROVIDENCE RI	17401QAT8	Investment-grade corporate bonds	43,000,000	2/14/2022	0.23%
CITIZENS BANK NA/PROVIDENCE RI	17401QAM3	Investment-grade corporate bonds	4,960,000	5/26/2022	0.03%
CNH INDUSTRIAL CAPITAL LLC	12592BAE4	Investment-grade corporate bonds	40,271,000	11/6/2020	0.22%
COCA-COLA CO/THE	191216BT6	Investment-grade corporate bonds	46,000,000	10/27/2020	0.25%
COLUMBIA PIPELINE GROUP INC	198280AD1	Investment-grade corporate bonds	1,900,000	6/1/2020	0.01%
COMCAST CORP	20030NCV1	Investment-grade corporate bonds	42,517,000	10/1/2020	0.23%
COMERICA BANK	200339DW6	Investment-grade corporate bonds	7,100,000	6/2/2020	0.04%
COMMONWEALTH BANK OF AUSTRALIA	2027A0JJ9	Investment-grade corporate bonds	14,900,000	3/10/2020	0.08%
COMMONWEALTH BANK OF AUSTRALIA	2027A0JQ3	Investment-grade corporate bonds	19,600,000	9/18/2020	0.11%
CONAGRA BRANDS INC	205887BW1	Investment-grade corporate bonds	14,020,000	10/9/2020	0.08%
CONSOLIDATED EDISON CO OF NEW YORK INC	209111FR9	Investment-grade corporate bonds	47,100,000	6/25/2021	0.26%
CREDIT AGRICOLE CORPORATE & INVESTMENT BANK SA	22533B2G9	Investment-grade corporate bonds	47,000,000	5/3/2021	0.26%
CREDIT AGRICOLE CORPORATE & INVESTMENT BANK SA	22533AA98	Investment-grade corporate bonds	15,345,000	10/3/2021	0.08%
CREDIT AGRICOLE SA/LONDON	225313AH8	Investment-grade corporate bonds	26,005,000	6/10/2020	0.14%
CREDIT AGRICOLE SA/LONDON	22532LAS3	Investment-grade corporate bonds	51,180,000	7/1/2021	0.28%
CREDIT SUISSE AG/NEW YORK NY	22546QAD9	Investment-grade corporate bonds	36,481,000	1/14/2020	0.20%
CREDIT SUISSE GROUP FUNDING GUERNSEY LTD	225433AD3	Investment-grade corporate bonds	55,676,000	3/26/2020	0.30%
CREDIT SUISSE GROUP FUNDING GUERNSEY LTD	225433AK7	Investment-grade corporate bonds	12,480,000	12/10/2020	0.07%
CREDIT SUISSE GROUP FUNDING GUERNSEY LTD	225433AP6	Investment-grade corporate bonds	69,194,000	4/16/2021	0.38%
CREDIT SUISSE GROUP FUNDING GUERNSEY LTD	225433AN1	Investment-grade corporate bonds	1,750,000	4/16/2021	0.01%
CROWN CASTLE INTERNATIONAL CORP	22822VAA9	Investment-grade corporate bonds	9,300,000	2/15/2021	0.05%
CVS HEALTH CORP	126650DB3	Investment-grade corporate bonds	11,461,000	3/9/2020	0.06%
CVS HEALTH CORP	126650CJ7	Investment-grade corporate bonds	52,500,000	7/20/2020	0.29%
DANSKE BANK A/S	23636AAL5	Investment-grade corporate bonds	25,200,000	3/2/2020	0.14%
DEUTSCHE TELEKOM INTERNATIONAL FINANCE BV	25156PAW3	Investment-grade corporate bonds	4,190,000	1/17/2020	0.02%
DEUTSCHE TELEKOM INTERNATIONAL FINANCE BV	25156PAX1	Investment-grade corporate bonds	25,300,000	1/17/2020	0.14%
DIAGEO CAPITAL PLC	25243YAW9	Investment-grade corporate bonds	29,100,000	5/18/2020	0.16%
DISCOVER BANK	25466AAB7	Investment-grade corporate bonds	47,785,000	4/15/2020	0.26%
DISCOVER BANK	25466AAG6	Investment-grade corporate bonds	66,677,000	6/4/2020	0.36%
DISCOVERY COMMUNICATIONS LLC	25470DAY5	Investment-grade corporate bonds	34,750,000	6/15/2020	0.19%
DNB BANK ASA	23329PAB6	Investment-grade corporate bonds	53,005,000	10/2/2020	0.29%
DNB BANK ASA	23341CAB9	Investment-grade corporate bonds	7,000,000	6/2/2021	0.04%
DNB BANK ASA	23329PAD2	Investment-grade corporate bonds	46,725,000	12/2/2022	0.25%
DNB BOLIGKREDITT AS	25600WAE0	Investment-grade corporate bonds	15,190,000	5/28/2020	0.08%
DOMINION ENERGY INC	25746UCV9	Investment-grade corporate bonds	29,500,000	12/1/2020	0.16%
DUKE ENERGY CORP	26441CAV7	Investment-grade corporate bonds	28,250,000	6/15/2020	0.15%
DUKE ENERGY CORP	26441CBA2	Investment-grade corporate bonds	53,295,000	5/14/2021	0.29%
DUKE ENERGY CORP	26441CBD6	Investment-grade corporate bonds	23,600,000	3/11/2022	0.13%
DUKE ENERGY FLORIDA LLC	26444HAG6	Investment-grade corporate bonds	14,825,000	11/26/2021	0.08%

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Issuer Name	Cusip	Security Type	Principal Amount	Maturity Date <sup>1</sup>	Percent of Portfolio
DUPONT DE NEMOURS INC	26078JAG5	Investment-grade corporate bonds	29,920,000	11/15/2020	0.16%
FIFTH THIRD BANK/CINCINNATI OH	31677QBL2	Investment-grade corporate bonds	31,105,000	10/30/2020	0.17%
FIFTH THIRD BANK/CINCINNATI OH	31677QBP3	Investment-grade corporate bonds	24,800,000	7/26/2021	0.13%
FISERV INC	337738AN8	Investment-grade corporate bonds	33,356,000	6/1/2020	0.18%
FISERV INC	337738AL2	Investment-grade corporate bonds	6,367,000	6/15/2021	0.04%
FLORIDA POWER & LIGHT CO	341081FW2	Investment-grade corporate bonds	19,100,000	5/6/2022	0.10%
GENERAL MOTORS FINANCIAL CO INC	37045XBV7	Investment-grade corporate bonds	31,000,000	4/13/2020	0.17%
GENERAL MOTORS FINANCIAL CO INC	37045XBU9	Investment-grade corporate bonds	16,338,000	4/13/2020	0.09%
GEORGIA POWER CO	373334KJ9	Investment-grade corporate bonds	26,000,000	9/8/2020	0.14%
GLAXOSMITHKLINE CAPITAL PLC	377373AF2	Investment-grade corporate bonds	23,750,000	5/14/2021	0.13%
GOLDMAN SACHS GROUP INC/THE	38141EA58	Investment-grade corporate bonds	58,892,000	3/15/2020	0.32%
GOLDMAN SACHS GROUP INC/THE	38148LAB2	Investment-grade corporate bonds	14,845,000	4/23/2020	0.08%
GOLDMAN SACHS GROUP INC/THE	38141GVQ4	Investment-grade corporate bonds	16,803,000	9/15/2020	0.09%
GOLDMAN SACHS GROUP INC/THE	38141GWG5	Investment-grade corporate bonds	15,285,000	12/27/2020	0.08%
HARTFORD FINANCIAL SERVICES GROUP INC/THE	416515AZ7	Investment-grade corporate bonds	47,300,000	3/30/2020	0.26%
HONEYWELL INTERNATIONAL INC	438516BV7	Investment-grade corporate bonds	28,000,000	8/8/2022	0.15%
HSBC BANK USA NA	4042Q1AE7	Investment-grade corporate bonds	42,050,000	8/24/2020	0.23%
HSBC HOLDINGS PLC	404280AX7	Investment-grade corporate bonds	47,839,000	3/8/2021	0.26%
HSBC HOLDINGS PLC	404280BQ1	Investment-grade corporate bonds	28,000,000	5/18/2021	0.15%
HSBC HOLDINGS PLC	404280AZ2	Investment-grade corporate bonds	33,629,000	5/25/2021	0.19%
HUNTINGTON BANCSHARES INC/OH	446150AG9	Investment-grade corporate bonds	6,389,000	12/15/2020	0.04%
HUNTINGTON NATIONAL BANK/THE	446438RU9	Investment-grade corporate bonds	68,200,000	3/10/2020	0.37%
HUNTINGTON NATIONAL BANK/THE	446438RV7	Investment-grade corporate bonds	41,500,000	3/10/2020	0.23%
HUNTINGTON NATIONAL BANK/THE	446438RQ8	Investment-grade corporate bonds	19,000,000	8/20/2020	0.10%
HUNTINGTON NATIONAL BANK/THE	44644AAG2	Investment-grade corporate bonds	3,870,000	2/5/2021	0.02%
IBM CREDIT LLC	44932HAE3	Investment-grade corporate bonds	44,902,000	1/20/2021	0.24%
ING BANK NV	44987CAH1	Investment-grade corporate bonds	11,350,000	8/17/2020	0.06%
ING BANK NV	44987CAG3	Investment-grade corporate bonds	1,500,000	8/17/2020	0.01%
ING BANK NV	449786BF8	Investment-grade corporate bonds	31,679,000	8/15/2021	0.17%
ING GROEP NV	456837AJ2	Investment-grade corporate bonds	30,900,000	3/29/2022	0.17%
INTERNATIONAL BUSINESS MACHINES CORP	459200KD2	Investment-grade corporate bonds	46,700,000	5/13/2021	0.25%
INTERNATIONAL FLAVORS & FRAGRANCES INC	459506AJ0	Investment-grade corporate bonds	19,070,000	9/25/2020	0.10%
INTERPUBLIC GROUP OF COS INC/THE	460690BM1	Investment-grade corporate bonds	17,131,000	10/1/2020	0.09%
IPALCO ENTERPRISES INC	462613AK6	Investment-grade corporate bonds	3,652,000	7/15/2020	0.02%
JACKSON NATIONAL LIFE GLOBAL FUNDING	46849LSZ5	Investment-grade corporate bonds	47,500,000	4/27/2020	0.26%
JACKSON NATIONAL LIFE GLOBAL FUNDING	46849LTD3	Investment-grade corporate bonds	23,300,000	10/15/2020	0.13%
JACKSON NATIONAL LIFE GLOBAL FUNDING	46849LTA9	Investment-grade corporate bonds	47,303,000	6/11/2021	0.26%
JACKSON NATIONAL LIFE GLOBAL FUNDING	46849LSX0	Investment-grade corporate bonds	33,784,000	6/27/2022	0.19%
JPMORGAN CHASE & CO	46625HHU7	Investment-grade corporate bonds	28,300,000	10/15/2020	0.16%
JPMORGAN CHASE & CO	46625HNY2	Investment-grade corporate bonds	16,152,000	10/29/2020	0.09%
JPMORGAN CHASE & CO	46625HQQ9	Investment-grade corporate bonds	25,327,000	3/1/2021	0.14%

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JPMORGAN CHASE & CO	46647PAC0	Investment-grade corporate bonds	27,842,000	3/9/2021	0.15%
JPMORGAN CHASE & CO	46647PAG1	Investment-grade corporate bonds	26,160,000	6/1/2021	0.14%
JPMORGAN CHASE & CO	46647PAT3	Investment-grade corporate bonds	25,797,000	6/18/2022	0.14%
JPMORGAN CHASE & CO	48128BAC5	Investment-grade corporate bonds	8,400,000	1/15/2023	0.05%
JPMORGAN CHASE & CO	46647PAD8	Investment-grade corporate bonds	6,457,000	4/25/2023	0.04%
JPMORGAN CHASE BANK NA	48125LRL8	Investment-grade corporate bonds	6,000,000	2/1/2021	0.03%
JPMORGAN CHASE BANK NA	48125LRP9	Investment-grade corporate bonds	14,750,000	4/26/2021	0.08%
KEYBANK NA/CLEVELAND OH	49327M2R4	Investment-grade corporate bonds	9,905,000	11/22/2021	0.05%
KEYBANK NA/CLEVELAND OH	49327M2Y9	Investment-grade corporate bonds	40,000,000	2/1/2022	0.22%
KEYCORP	49326EEF6	Investment-grade corporate bonds	46,466,000	9/15/2020	0.25%
KINDER MORGAN ENERGY PARTNERS LP	494550BB1	Investment-grade corporate bonds	2,800,000	2/15/2020	0.02%
KINDER MORGAN ENERGY PARTNERS LP	28370TAA7	Investment-grade corporate bonds	45,620,000	4/1/2020	0.25%
KINDER MORGAN ENERGY PARTNERS LP	494550BE5	Investment-grade corporate bonds	6,661,000	9/15/2020	0.04%
KINDER MORGAN ENERGY PARTNERS LP	494550BC9	Investment-grade corporate bonds	510,000	3/1/2021	0.00%
LLOYDS BANK PLC	53944VAQ2	Investment-grade corporate bonds	65,400,000	5/7/2021	0.36%
LLOYDS BANKING GROUP PLC	53944YAG8	Investment-grade corporate bonds	36,565,000	6/21/2021	0.20%
MACQUARIE BANK LTD	55608PAR5	Investment-grade corporate bonds	9,400,000	7/29/2020	0.05%
MACQUARIE BANK LTD	55608PBD5	Investment-grade corporate bonds	33,250,000	11/24/2021	0.18%
MACQUARIE GROUP LTD	55608JAC2	Investment-grade corporate bonds	50,171,000	1/14/2020	0.27%
MANUFACTURERS & TRADERS TRUST CO	55279HAS9	Investment-grade corporate bonds	63,120,000	1/25/2021	0.34%
MANUFACTURERS & TRADERS TRUST CO	564759QB7	Investment-grade corporate bonds	13,270,000	12/1/2021	0.07%
MARRIOTT INTERNATIONAL INC/MD	571903AL7	Investment-grade corporate bonds	4,733,000	10/15/2020	0.03%
MARRIOTT INTERNATIONAL INC/MD	571903AZ6	Investment-grade corporate bonds	5,400,000	12/1/2020	0.03%
MARRIOTT INTERNATIONAL INC/MD	571900BA6	Investment-grade corporate bonds	18,205,000	3/8/2021	0.10%
MARSH & MCLENNAN COS INC	571748AY8	Investment-grade corporate bonds	22,000,000	3/6/2020	0.12%
MARSH & MCLENNAN COS INC	571748BE1	Investment-grade corporate bonds	4,300,000	12/29/2020	0.02%
MASSMUTUAL GLOBAL FUNDING II	57629WCK4	Investment-grade corporate bonds	18,600,000	7/1/2022	0.10%
MCDONALD'S CORP	58013MEX8	Investment-grade corporate bonds	14,500,000	12/9/2020	0.08%
MCDONALD'S CORP	58013MFG4	Investment-grade corporate bonds	21,430,000	10/28/2021	0.12%
METROPOLITAN LIFE GLOBAL FUNDING I	59217GBP3	Investment-grade corporate bonds	13,365,000	4/14/2020	0.07%
METROPOLITAN LIFE GLOBAL FUNDING I	59217GCO0	Investment-grade corporate bonds	37,300,000	9/7/2020	0.20%
METROPOLITAN LIFE GLOBAL FUNDING I	59217GBR9	Investment-grade corporate bonds	31,500,000	12/3/2020	0.17%
METROPOLITAN LIFE GLOBAL FUNDING I	59217GCM9	Investment-grade corporate bonds	11,500,000	1/8/2021	0.06%
METROPOLITAN LIFE GLOBAL FUNDING I	59217GCY3	Investment-grade corporate bonds	19,550,000	5/28/2021	0.11%
METROPOLITAN LIFE GLOBAL FUNDING I	59217GDB2	Investment-grade corporate bonds	18,500,000	6/17/2022	0.10%
MITSUBISHI UFJ FINANCIAL GROUP INC	606822AB0	Investment-grade corporate bonds	8,429,000	3/1/2021	0.05%
MITSUBISHI UFJ FINANCIAL GROUP INC	606822AX2	Investment-grade corporate bonds	45,366,000	7/26/2021	0.25%
MITSUBISHI UFJ FINANCIAL GROUP INC	606822AF1	Investment-grade corporate bonds	63,803,000	9/13/2021	0.35%
MITSUBISHI UFJ FINANCIAL GROUP INC	606822AK0	Investment-grade corporate bonds	23,818,000	2/22/2022	0.13%
MITSUBISHI UFJ FINANCIAL GROUP INC	606822AQ7	Investment-grade corporate bonds	4,952,000	7/25/2022	0.03%
MITSUBISHI UFJ TRUST & BANKING CORP	60682VAD2	Investment-grade corporate bonds	4,000,000	10/19/2020	0.02%

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MIZUHO FINANCIAL GROUP INC	60687YAC3	Investment-grade corporate bonds	13,200,000	4/12/2021	0.07%
MIZUHO FINANCIAL GROUP INC	60687YAF6	Investment-grade corporate bonds	49,305,000	9/13/2021	0.27%
MIZUHO FINANCIAL GROUP INC	60687YAJ8	Investment-grade corporate bonds	34,526,000	2/28/2022	0.19%
MORGAN STANLEY	61761JB32	Investment-grade corporate bonds	12,107,000	6/16/2020	0.07%
MORGAN STANLEY	61761JB40	Investment-grade corporate bonds	11,042,000	6/16/2020	0.06%
MORGAN STANLEY	61744YAM0	Investment-grade corporate bonds	30,249,000	2/10/2021	0.16%
MORGAN STANLEY	61746BEB8	Investment-grade corporate bonds	50,962,000	4/21/2021	0.28%
MORGAN STANLEY	61746BEE2	Investment-grade corporate bonds	56,643,000	1/20/2022	0.31%
MORGAN STANLEY	61744YAJ7	Investment-grade corporate bonds	17,591,000	7/22/2022	0.10%
NATIONAL AUSTRALIA BANK LTD	6325C0DG3	Investment-grade corporate bonds	17,750,000	1/10/2020	0.10%
NATIONAL AUSTRALIA BANK LTD	6325C0DP3	Investment-grade corporate bonds	25,700,000	5/22/2020	0.14%
NATIONAL AUSTRALIA BANK LTD	6325C0DT5	Investment-grade corporate bonds	27,900,000	1/12/2021	0.15%
NATIONAL AUSTRALIA BANK LTD	6325C0DV0	Investment-grade corporate bonds	28,200,000	9/20/2021	0.15%
NATIONAL AUSTRALIA BANK LTD	6325C0DW8	Investment-grade corporate bonds	27,500,000	11/4/2021	0.15%
NATIONAL BANK OF CANADA	63307A2F1	Investment-grade corporate bonds	21,023,000	6/12/2020	0.11%
NATIONAL BANK OF CANADA	63307A2H7	Investment-grade corporate bonds	18,700,000	11/2/2020	0.10%
NATIONAL BANK OF CANADA	63307CAH4	Investment-grade corporate bonds	6,250,000	3/21/2021	0.03%
NATIONWIDE BUILDING SOCIETY	63859UBC6	Investment-grade corporate bonds	16,000,000	1/21/2020	0.09%
NBCUNIVERSAL ENTERPRISE INC	63946CAG3	Investment-grade corporate bonds	83,500,000	4/1/2021	0.45%
NEW YORK LIFE GLOBAL FUNDING	64952WCZ4	Investment-grade corporate bonds	12,000,000	8/6/2021	0.07%
NEW YORK LIFE GLOBAL FUNDING	64952WDK6	Investment-grade corporate bonds	42,000,000	1/21/2022	0.23%
NEW YORK LIFE GLOBAL FUNDING	64952WCR2	Investment-grade corporate bonds	47,550,000	6/10/2022	0.26%
NEXTERA ENERGY CAPITAL HOLDINGS INC	65339KAQ3	Investment-grade corporate bonds	38,128,000	9/1/2020	0.21%
NEXTERA ENERGY CAPITAL HOLDINGS INC	65339KBE9	Investment-grade corporate bonds	22,600,000	9/28/2020	0.12%
NISSAN MOTOR ACCEPTANCE CORP	654740AU3	Investment-grade corporate bonds	10,250,000	1/13/2020	0.06%
NISSAN MOTOR ACCEPTANCE CORP	654740AY5	Investment-grade corporate bonds	29,800,000	7/13/2020	0.16%
NISSAN MOTOR ACCEPTANCE CORP	654740BC2	Investment-grade corporate bonds	11,900,000	9/28/2020	0.06%
NORDEA BANK ABP	65557CAT0	Investment-grade corporate bonds	8,353,000	5/27/2021	0.05%
NUTRIEN LTD	67077MAB4	Investment-grade corporate bonds	18,500,000	3/30/2020	0.10%
NV ENERGY INC	67073YAA4	Investment-grade corporate bonds	20,522,000	11/15/2020	0.12%
OCCIDENTAL PETROLEUM CORP	674599CT0	Investment-grade corporate bonds	23,280,000	2/8/2021	0.13%
PHILLIPS 66	718546AP9	Investment-grade corporate bonds	21,349,000	4/15/2020	0.12%
PHILLIPS 66	718546AS3	Investment-grade corporate bonds	8,500,000	2/26/2021	0.05%
PNC BANK NA	69353RFD5	Investment-grade corporate bonds	9,652,000	5/19/2020	0.05%
PNC BANK NA	69353RFM5	Investment-grade corporate bonds	46,300,000	3/12/2021	0.25%
PNC BANK NA	69353RFN3	Investment-grade corporate bonds	28,000,000	6/10/2021	0.15%
PNC BANK NA	69353RFQ6	Investment-grade corporate bonds	50,520,000	7/22/2022	0.27%
PNC BANK NA	69353RFR4	Investment-grade corporate bonds	48,700,000	12/9/2022	0.26%
PRINCIPAL LIFE GLOBAL FUNDING II	74256LAY5	Investment-grade corporate bonds	23,500,000	1/10/2020	0.13%
PRINCIPAL LIFE GLOBAL FUNDING II	74256LBC2	Investment-grade corporate bonds	37,200,000	6/26/2020	0.20%
PROTECTIVE LIFE GLOBAL FUNDING	74368CAN4	Investment-grade corporate bonds	23,000,000	7/13/2020	0.12%

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PUBLIC SERVICE ENTERPRISE GROUP INC	744573AK2	Investment-grade corporate bonds	22,348,000	11/15/2021	0.12%
RABOBANK NEDERLAND	74977RCA0	Investment-grade corporate bonds	29,730,000	1/15/2020	0.16%
RABOBANK NEDERLAND NV NY	21688AAP7	Investment-grade corporate bonds	25,370,000	4/26/2021	0.14%
RABOBANK NEDERLAND NV NY	21688AAK8	Investment-grade corporate bonds	29,100,000	1/10/2022	0.16%
REGIONS BANK/BIRMINGHAM AL	759187CC9	Investment-grade corporate bonds	35,385,000	4/1/2021	0.19%
REGIONS BANK/BIRMINGHAM AL	759187CE5	Investment-grade corporate bonds	67,026,000	8/13/2021	0.36%
REGIONS BANK/BIRMINGHAM AL	759187CD7	Investment-grade corporate bonds	20,343,000	8/13/2021	0.11%
ROYAL BANK OF CANADA	78012KC54	Investment-grade corporate bonds	20,000,000	3/2/2020	0.11%
ROYAL BANK OF CANADA	78013XRJ9	Investment-grade corporate bonds	17,300,000	7/22/2020	0.09%
ROYAL BANK OF CANADA	78013XX29	Investment-grade corporate bonds	28,000,000	1/25/2021	0.15%
ROYAL BANK OF CANADA	78013XKH0	Investment-grade corporate bonds	35,750,000	4/30/2021	0.19%
ROYAL BANK OF CANADA	78013X6E3	Investment-grade corporate bonds	18,200,000	4/29/2022	0.10%
SABINE PASS LIQUEFACTION LLC	785592AE6	Investment-grade corporate bonds	8,900,000	2/1/2021	0.05%
SANTANDER HOLDINGS USA INC	80282KAD8	Investment-grade corporate bonds	50,100,000	4/17/2020	0.27%
SANTANDER UK GROUP HOLDINGS PLC	80281LAC9	Investment-grade corporate bonds	29,800,000	10/16/2020	0.16%
SANTANDER UK PLC	80283LAQ6	Investment-grade corporate bonds	18,328,000	11/3/2020	0.10%
SANTANDER UK PLC	80283LAU7	Investment-grade corporate bonds	64,370,000	6/1/2021	0.35%
SHERWIN-WILLIAMS CO/THE	824348AT3	Investment-grade corporate bonds	3,525,000	5/15/2020	0.02%
SIEMENS FINANCIERINGSMAATSCHAPPIJ NV	82620KAN3	Investment-grade corporate bonds	25,150,000	3/16/2020	0.14%
SIEMENS FINANCIERINGSMAATSCHAPPIJ NV	82620KAQ6	Investment-grade corporate bonds	37,850,000	3/16/2022	0.21%
SKANDINAVISKA ENSKILDA BANKEN AB	83051GAH1	Investment-grade corporate bonds	52,250,000	5/17/2021	0.28%
SPECTRA ENERGY PARTNERS LP	84756NAJ8	Investment-grade corporate bonds	12,930,000	6/5/2020	0.07%
STANDARD CHARTERED PLC	853254AW0	Investment-grade corporate bonds	18,550,000	4/17/2020	0.10%
STATE STREET CORP	857477AS2	Investment-grade corporate bonds	39,773,000	8/18/2020	0.22%
SUMITOMO MITSUI BANKING CORP	865622CK8	Investment-grade corporate bonds	11,556,000	1/17/2020	0.06%
SUMITOMO MITSUI FINANCIAL GROUP INC	86562MAD2	Investment-grade corporate bonds	16,660,000	3/9/2021	0.09%
SUMITOMO MITSUI FINANCIAL GROUP INC	86562MAJ9	Investment-grade corporate bonds	52,212,000	10/19/2021	0.29%
SUMITOMO MITSUI FINANCIAL GROUP INC	86562MAL4	Investment-grade corporate bonds	25,439,000	1/11/2022	0.14%
SUMITOMO MITSUI FINANCIAL GROUP INC	86562MAP5	Investment-grade corporate bonds	10,614,000	7/12/2022	0.06%
SVENSKA HANDELSBANKEN AB	86960BAS1	Investment-grade corporate bonds	15,000,000	9/8/2020	0.08%
SVENSKA HANDELSBANKEN AB	86960BAM4	Investment-grade corporate bonds	23,400,000	3/30/2021	0.13%
SVENSKA HANDELSBANKEN AB	86960BAU6	Investment-grade corporate bonds	53,242,000	5/24/2021	0.29%
SWEDBANK AB	87020PAJ6	Investment-grade corporate bonds	9,300,000	3/14/2022	0.05%
TD AMERITRADE HOLDING CORP	87236YAG3	Investment-grade corporate bonds	70,400,000	11/1/2021	0.38%
TORONTO-DOMINION BANK/THE	89114QC63	Investment-grade corporate bonds	17,600,000	9/17/2020	0.10%
TORONTO-DOMINION BANK/THE	89114QBD9	Investment-grade corporate bonds	1,700,000	12/14/2020	0.01%
TORONTO-DOMINION BANK/THE	89114QBW7	Investment-grade corporate bonds	28,500,000	1/25/2021	0.15%
TORONTO-DOMINION BANK/THE	89114QCC0	Investment-grade corporate bonds	5,000,000	3/17/2021	0.03%
TORONTO-DOMINION BANK/THE	89114QBH0	Investment-grade corporate bonds	26,000,000	4/7/2021	0.14%
TORONTO-DOMINION BANK/THE	89114QC30	Investment-grade corporate bonds	38,200,000	6/11/2021	0.21%
TORONTO-DOMINION BANK/THE	89114QBM9	Investment-grade corporate bonds	1,001,000	7/13/2021	0.01%



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TORONTO-DOMINION BANK/THE	89114Q3J5	Investment-grade corporate bonds	42,000,000	7/22/2022	0.23%
TOTAL CAPITAL INTERNATIONAL SA	89153VAR0	Investment-grade corporate bonds	32,515,000	7/12/2021	0.18%
TOTAL CAPITAL SA	89152UAD4	Investment-grade corporate bonds	4,000,000	6/24/2020	0.02%
TOYOTA MOTOR CREDIT CORP	89236TGP4	Investment-grade corporate bonds	46,500,000	10/23/2020	0.25%
TOYOTA MOTOR CREDIT CORP	89236TGF6	Investment-grade corporate bonds	75,000,000	3/12/2021	0.41%
TOYOTA MOTOR CREDIT CORP	89236TGK5	Investment-grade corporate bonds	32,100,000	10/7/2021	0.17%
TRUIST BANK	86787EAU1	Investment-grade corporate bonds	19,666,000	1/29/2021	0.11%
TRUIST BANK	86787EAZ0	Investment-grade corporate bonds	39,050,000	10/26/2021	0.21%
TRUIST BANK	86787EBD8	Investment-grade corporate bonds	36,600,000	5/17/2022	0.20%
TRUIST BANK	86787EAW7	Investment-grade corporate bonds	2,527,000	8/2/2022	0.01%
TRUIST FINANCIAL CORP	05531FAW3	Investment-grade corporate bonds	14,855,000	6/15/2020	0.08%
TRUIST FINANCIAL CORP	05531FBA0	Investment-grade corporate bonds	37,845,000	2/1/2021	0.21%
TYSON FOODS INC	902494BE2	Investment-grade corporate bonds	24,000,000	8/21/2020	0.13%
UBS AG/LONDON	902674XE5	Investment-grade corporate bonds	33,323,000	6/8/2020	0.18%
UBS AG/LONDON	902674XK1	Investment-grade corporate bonds	1,358,000	12/1/2020	0.01%
UBS AG/LONDON	902674XJ4	Investment-grade corporate bonds	31,918,000	12/1/2020	0.17%
UBS GROUP AG	90351DAC1	Investment-grade corporate bonds	28,900,000	9/24/2020	0.16%
UBS GROUP AG	90351DAE7	Investment-grade corporate bonds	37,754,000	4/14/2021	0.21%
UBS GROUP AG	90351DAD9	Investment-grade corporate bonds	24,323,000	4/15/2021	0.13%
UBS GROUP AG	90351DAG2	Investment-grade corporate bonds	20,587,000	2/1/2022	0.11%
UNITED TECHNOLOGIES CORP	913017BR9	Investment-grade corporate bonds	1,250,000	4/15/2020	0.01%
UNITED TECHNOLOGIES CORP	913017CM9	Investment-grade corporate bonds	66,000,000	5/4/2020	0.36%
UNITEDHEALTH GROUP INC	91324PDG4	Investment-grade corporate bonds	27,450,000	6/15/2021	0.15%
US BANCORP	91159HHQ6	Investment-grade corporate bonds	13,507,000	1/24/2022	0.07%
US BANK NA/CINCINNATI OH	90331HNN2	Investment-grade corporate bonds	2,420,000	10/23/2020	0.01%
US BANK NA/CINCINNATI OH	90331HNNQ2	Investment-grade corporate bonds	5,000,000	4/26/2021	0.03%
US BANK NA/CINCINNATI OH	90331HNT6	Investment-grade corporate bonds	57,880,000	5/21/2021	0.31%
US BANK NA/CINCINNATI OH	90331HNY5	Investment-grade corporate bonds	10,200,000	11/16/2021	0.06%
US BANK NA/CINCINNATI OH	90331HPD9	Investment-grade corporate bonds	45,000,000	5/23/2022	0.24%
US BANK NA/CINCINNATI OH	90331HPG2	Investment-grade corporate bonds	47,500,000	12/9/2022	0.26%
USAA CAPITAL CORP	90327QCY3	Investment-grade corporate bonds	8,300,000	6/1/2021	0.05%
VERIZON COMMUNICATIONS INC	92343VDZ4	Investment-grade corporate bonds	6,800,000	5/22/2020	0.04%
VERIZON COMMUNICATIONS INC	92343VDX9	Investment-grade corporate bonds	10,300,000	3/16/2022	0.06%
VULCAN MATERIALS CO	929160AX7	Investment-grade corporate bonds	35,938,000	3/1/2021	0.20%
WALT DISNEY CO/THE	254687FG6	Investment-grade corporate bonds	21,500,000	9/1/2021	0.12%
WELLS FARGO & CO	94974BGN4	Investment-grade corporate bonds	6,012,000	7/22/2020	0.03%
WELLS FARGO & CO	94974BGS3	Investment-grade corporate bonds	5,772,000	12/7/2020	0.03%
WELLS FARGO & CO	949746RT0	Investment-grade corporate bonds	33,686,000	3/4/2021	0.18%
WELLS FARGO & CO	949746SB8	Investment-grade corporate bonds	24,417,000	7/26/2021	0.13%
WELLS FARGO & CO	949746SP7	Investment-grade corporate bonds	26,035,000	2/11/2022	0.14%
WELLS FARGO & CO	949746SL6	Investment-grade corporate bonds	7,400,000	1/24/2023	0.04%



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WELLS FARGO BANK NA	94988J5Q6	Investment-grade corporate bonds	23,700,000	7/23/2021	0.13%
WELLS FARGO BANK NA	94988J5U7	Investment-grade corporate bonds	35,700,000	10/22/2021	0.19%
WELLS FARGO BANK NA	94988J5W3	Investment-grade corporate bonds	18,400,000	5/27/2022	0.10%
WESTPAC BANKING CORP	961214DL4	Investment-grade corporate bonds	14,900,000	3/6/2020	0.08%
WESTPAC BANKING CORP	961214DY6	Investment-grade corporate bonds	14,300,000	5/15/2020	0.08%
WESTPAC BANKING CORP	961214DV2	Investment-grade corporate bonds	23,450,000	1/25/2021	0.13%
WESTPAC BANKING CORP	961214DH3	Investment-grade corporate bonds	21,400,000	1/11/2022	0.12%
WILLIAMS COS INC/THE	96950FAD6	Investment-grade corporate bonds	32,132,000	3/15/2020	0.18%
ZOETIS INC	98978VAR4	Investment-grade corporate bonds	60,480,000	8/20/2021	0.33%
BNP PARIBAS	----	Repurchase agreement	50,000,000	2/7/2020	0.27%
ROYAL BANK OF CANADA	----	Repurchase agreement	25,000,000	2/7/2020	0.14%
ACE SECURITIES CORP HOME EQUITY LOAN TRUST SERIES 2005-WF1	004421QQ9	Residential MBS (non-agency)	760,954	5/25/2035	0.00%
ALTERNATIVE LOAN TRUST 2004-J5	12667FLL7	Residential MBS (non-agency)	4,206,437	8/25/2034	0.02%
AMERIQUEST MORTGAGE SECURITIES INC ASSET-BACKED PASS-THROUG	03072SQC2	Residential MBS (non-agency)	425,607	5/25/2034	0.00%
AMERIQUEST MORTGAGE SECURITIES INC ASSET-BACKED PASS-THROUG	03072SJ97	Residential MBS (non-agency)	1,807,670	9/25/2035	0.01%
AMERIQUEST MORTGAGE SECURITIES INC ASSET-BACKED PASS-THROUG	03072SL94	Residential MBS (non-agency)	3,278,763	10/25/2035	0.02%
ANGEL OAK MORTGAGE FUND EU TRUST	03463UAA5	Residential MBS (non-agency)	19,017,046	7/26/2049	0.10%
ANGEL OAK MORTGAGE TRUST I LLC 2017-2	03463NAA1	Residential MBS (non-agency)	1,674,796	7/25/2047	0.01%
ANGEL OAK MORTGAGE TRUST I LLC 2018-3	03464NAA0	Residential MBS (non-agency)	13,972,580	9/25/2048	0.08%
ANGEL OAK MORTGAGE TRUST I LLC 2019-1	03464MAA2	Residential MBS (non-agency)	9,388,534	11/25/2048	0.05%
ARGENT SECURITIES INC ASSET-BACKED PASS-THROUGH CERTIFICATE	040104JJ1	Residential MBS (non-agency)	1,777,327	5/25/2034	0.01%
ARROYO MORTGAGE TRUST 2019-3	04285AAA3	Residential MBS (non-agency)	21,153,911	10/25/2048	0.12%
BANC OF AMERICA FUNDING 2005-B TRUST	05946XRW5	Residential MBS (non-agency)	87,738	4/20/2035	0.00%
BANC OF AMERICA FUNDING 2015-R4 TRUST	05990RAS0	Residential MBS (non-agency)	2,479,947	8/27/2036	0.01%
BEAR STEARNS ASSET BACKED SECURITIES I TRUST 2005-EC1	0738795D6	Residential MBS (non-agency)	1,574,013	11/25/2035	0.01%
BEAR STEARNS ASSET BACKED SECURITIES I TRUST 2005-TC1	073879VF2	Residential MBS (non-agency)	1,358,434	5/25/2035	0.01%
BEAR STEARNS ASSET BACKED SECURITIES I TRUST 2005-TC2	073879E38	Residential MBS (non-agency)	4,084,886	8/25/2035	0.02%
BEAR STEARNS ASSET BACKED SECURITIES I TRUST 2007-HE7	07387VAA7	Residential MBS (non-agency)	8,035,272	10/25/2037	0.04%
BEAR STEARNS ASSET BACKED SECURITIES TRUST 2005-SD1	073877AD4	Residential MBS (non-agency)	220,465	8/25/2043	0.00%
BELLEMEADE RE 2017-1 LTD	078767AA8	Residential MBS (non-agency)	4,940,064	10/25/2027	0.03%
BELLEMEADE RE 2018-2 LTD	07877DAA4	Residential MBS (non-agency)	2,445,599	8/25/2028	0.01%
BELLEMEADE RE 2019-2 LTD	07877BAA8	Residential MBS (non-agency)	4,998,877	4/25/2029	0.03%
BRAVO RESIDENTIAL FUNDING TRUST	10568HAA3	Residential MBS (non-agency)	17,626,131	7/25/2059	0.10%
BRAVO RESIDENTIAL FUNDING TRUST 2019-1	10568GAD9	Residential MBS (non-agency)	11,176,174	3/25/2058	0.06%
BRAVO RESIDENTIAL FUNDING TRUST 2019-NQM2	10569AAA7	Residential MBS (non-agency)	27,645,475	11/25/2059	0.15%
BUNKER HILL LOAN DEPOSITARY TRUST 2019-1	12061AAA6	Residential MBS (non-agency)	7,160,857	10/26/2048	0.04%
CARRINGTON MORTGAGE LOAN TRUST SERIES 2006-RFC1	14453EAD4	Residential MBS (non-agency)	6,524,855	3/25/2036	0.04%
CIT MORTGAGE LOAN TRUST 2007-1	12559QAD4	Residential MBS (non-agency)	3,070,730	10/25/2037	0.02%
COLT 2018-1 MORTGAGE LOAN TRUST	19687UAA1	Residential MBS (non-agency)	3,818,541	2/25/2048	0.02%
COLT 2018-2 MORTGAGE LOAN TRUST	19687VAA9	Residential MBS (non-agency)	5,396,034	7/27/2048	0.03%
COLT 2019-1 MORTGAGE LOAN TRUST	19687XAA5	Residential MBS (non-agency)	2,269,029	3/25/2049	0.01%

# Putnam Ultra Short Duration Income Fund

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## Security Detail

Issuer Name	Cusip	Security Type	Principal Amount	Maturity Date <sup>1</sup>	Percent of Portfolio
COLT FUNDING LLC	196860AA8	Residential MBS (non-agency)	16,804,578	11/25/2049	0.09%
CONNECTICUT AVENUE SECURITIES TRUST 2019-R02	20753KAA0	Residential MBS (non-agency)	1,109,739	8/25/2031	0.01%
CONNECTICUT AVENUE SECURITIES TRUST 2019-R03	20753MAA6	Residential MBS (non-agency)	1,299,534	9/25/2031	0.01%
COUNTRYWIDE ASSET-BACKED CERTIFICATES	126673EV0	Residential MBS (non-agency)	275,714	1/25/2035	0.00%
COUNTRYWIDE ASSET-BACKED CERTIFICATES	1266737E6	Residential MBS (non-agency)	1,143,578	8/25/2035	0.01%
COUNTRYWIDE ASSET-BACKED CERTIFICATES	126670NF1	Residential MBS (non-agency)	286,388	1/25/2036	0.00%
COUNTRYWIDE ASSET-BACKED CERTIFICATES	126670XR4	Residential MBS (non-agency)	1,117,622	4/25/2036	0.01%
CSMC SERIES 2015-2R	12649QBG8	Residential MBS (non-agency)	9,862,779	8/27/2036	0.05%
CSMC SERIES 2019-NOM1	12655VAA2	Residential MBS (non-agency)	18,725,000	10/25/2059	0.10%
CWABS ASSET-BACKED CERTIFICATES TRUST 2004-10	126673JV5	Residential MBS (non-agency)	8,400,196	12/25/2034	0.05%
CWABS ASSET-BACKED CERTIFICATES TRUST 2004-AB2	126673QG0	Residential MBS (non-agency)	1,903,233	5/25/2036	0.01%
CWABS ASSET-BACKED CERTIFICATES TRUST 2005-3	126673B84	Residential MBS (non-agency)	2,356,563	8/25/2035	0.01%
CWABS ASSET-BACKED CERTIFICATES TRUST 2005-4	126673R20	Residential MBS (non-agency)	2,486,866	10/25/2035	0.01%
DEEPHAVEN RESIDENTIAL MORTGAGE TRUST 2019-2	24381PAA1	Residential MBS (non-agency)	12,341,920	4/25/2059	0.07%
DEEPHAVEN RESIDENTIAL MORTGAGE TRUST 2017-3	24381FAA3	Residential MBS (non-agency)	1,152,434	10/25/2047	0.01%
DEEPHAVEN RESIDENTIAL MORTGAGE TRUST 2018-1	24380PAA2	Residential MBS (non-agency)	8,083,256	12/25/2057	0.04%
DEEPHAVEN RESIDENTIAL MORTGAGE TRUST 2019-3	24381NAA6	Residential MBS (non-agency)	9,013,741	7/25/2059	0.05%
DEEPHAVEN RESIDENTIAL MORTGAGE TRUST 2019-4	24381MAA8	Residential MBS (non-agency)	7,813,185	10/25/2059	0.04%
EAGLE RE 2019-1 LTD	269822AA0	Residential MBS (non-agency)	2,649,014	4/25/2029	0.01%
ELLINGTON FINANCIAL MORTGAGE TRUST	31573TAA6	Residential MBS (non-agency)	14,668,340	11/25/2059	0.08%
ELLINGTON FINANCIAL MORTGAGE TRUST 2018-1	31573NAM3	Residential MBS (non-agency)	10,214,644	10/25/2058	0.06%
ELLINGTON FINANCIAL MORTGAGE TRUST 2019-1	31573MAA1	Residential MBS (non-agency)	9,213,116	6/25/2059	0.05%
ELLINGTON LOAN ACQUISITION TRUST 2007-1	288542AD5	Residential MBS (non-agency)	1,342,654	5/25/2037	0.01%
EQUIFIRST MORTGAGE LOAN TRUST 2005-1	29445FCQ9	Residential MBS (non-agency)	3,615,160	4/25/2035	0.02%
FANNIE MAE CONNECTICUT AVENUE SECURITIES	30711XAH7	Residential MBS (non-agency)	2,321,288	5/25/2024	0.01%
FANNIE MAE CONNECTICUT AVENUE SECURITIES	30711XAM6	Residential MBS (non-agency)	8,390,194	7/25/2024	0.05%
FANNIE MAE CONNECTICUT AVENUE SECURITIES	30711XAV6	Residential MBS (non-agency)	21,287,807	2/25/2025	0.12%
FANNIE MAE CONNECTICUT AVENUE SECURITIES	30711XAZ7	Residential MBS (non-agency)	10,898,211	5/25/2025	0.06%
FANNIE MAE CONNECTICUT AVENUE SECURITIES	30711XBD5	Residential MBS (non-agency)	16,448,011	7/25/2025	0.09%
FANNIE MAE CONNECTICUT AVENUE SECURITIES	30711XBM5	Residential MBS (non-agency)	16,102,915	8/25/2028	0.10%
FANNIE MAE CONNECTICUT AVENUE SECURITIES	30711XCB8	Residential MBS (non-agency)	28,008,703	9/25/2028	0.17%
FANNIE MAE CONNECTICUT AVENUE SECURITIES	30711XDA9	Residential MBS (non-agency)	4,497,000	1/25/2029	0.03%
FANNIE MAE CONNECTICUT AVENUE SECURITIES	30711XDC5	Residential MBS (non-agency)	6,999,981	1/25/2029	0.04%
FANNIE MAE CONNECTICUT AVENUE SECURITIES	30711XHU1	Residential MBS (non-agency)	35,600,000	9/25/2029	0.19%
FANNIE MAE CONNECTICUT AVENUE SECURITIES	30711XJS4	Residential MBS (non-agency)	429,507	10/25/2029	0.00%
FANNIE MAE CONNECTICUT AVENUE SECURITIES	30711XLS1	Residential MBS (non-agency)	216,959	11/25/2029	0.00%
FANNIE MAE CONNECTICUT AVENUE SECURITIES	30711XUS1	Residential MBS (non-agency)	3,194,151	5/25/2030	0.02%
FANNIE MAE CONNECTICUT AVENUE SECURITIES	30711XYS7	Residential MBS (non-agency)	6,366,580	7/25/2030	0.03%
FANNIE MAE CONNECTICUT AVENUE SECURITIES	30711XJ21	Residential MBS (non-agency)	1,103,040	10/25/2030	0.01%
FANNIE MAE CONNECTICUT AVENUE SECURITIES	30711XQ31	Residential MBS (non-agency)	500,852	12/25/2030	0.00%
FANNIE MAE REMICS	64828EAA3	Residential MBS (non-agency)	11,625,108	9/25/2059	0.06%

## Security Detail

Issuer Name	Cusip	Security Type	Principal Amount	Maturity Date <sup>1</sup>	Percent of Portfolio
FIRST FRANKLIN MORTGAGE LOAN TRUST 2004-FF7	32027NLA7	Residential MBS (non-agency)	1,577,237	9/25/2034	0.01%
FIRST FRANKLIN MORTGAGE LOAN TRUST 2004-FFH4	32027NPG0	Residential MBS (non-agency)	640,319	1/25/2035	0.00%
FIRST FRANKLIN MORTGAGE LOAN TRUST 2005-FFH3	32027NVD0	Residential MBS (non-agency)	2,137,745	9/25/2035	0.01%
FIRST FRANKLIN MORTGAGE LOAN TRUST 2005-FFH4	32027NXD8	Residential MBS (non-agency)	5,926,286	12/25/2035	0.03%
FIRST FRANKLIN MORTGAGE LOAN TRUST SERIES 2005-FF12	32027NXW6	Residential MBS (non-agency)	1,009,577	11/25/2036	0.01%
FREDDIE MAC STACR TRUST 2018-HQA2	35563XAA0	Residential MBS (non-agency)	448,542	10/25/2048	0.00%
FREDDIE MAC STACR TRUST 2019-HQA1	35563MAA4	Residential MBS (non-agency)	3,460,237	2/25/2049	0.02%
FREDDIE MAC STRUCTURED AGENCY CREDIT RISK DEBT NOTES	3137G0AL3	Residential MBS (non-agency)	3,914,127	2/25/2024	0.02%
FREDDIE MAC STRUCTURED AGENCY CREDIT RISK DEBT NOTES	3137G0BK4	Residential MBS (non-agency)	12,676,353	8/25/2024	0.07%
FREDDIE MAC STRUCTURED AGENCY CREDIT RISK DEBT NOTES	3137G0BW8	Residential MBS (non-agency)	6,352,244	8/25/2024	0.04%
FREDDIE MAC STRUCTURED AGENCY CREDIT RISK DEBT NOTES	3137G0CG2	Residential MBS (non-agency)	4,623,189	9/25/2024	0.03%
FREDDIE MAC STRUCTURED AGENCY CREDIT RISK DEBT NOTES	3137G0CU1	Residential MBS (non-agency)	17,587,210	10/25/2024	0.10%
FREDDIE MAC STRUCTURED AGENCY CREDIT RISK DEBT NOTES	3137G0DF3	Residential MBS (non-agency)	7,314,575	10/25/2024	0.04%
FREDDIE MAC STRUCTURED AGENCY CREDIT RISK DEBT NOTES	3137G0DW6	Residential MBS (non-agency)	1,704,108	1/25/2025	0.01%
FREDDIE MAC STRUCTURED AGENCY CREDIT RISK DEBT NOTES	3137G0EJ4	Residential MBS (non-agency)	21,970,534	3/25/2025	0.12%
FREDDIE MAC STRUCTURED AGENCY CREDIT RISK DEBT NOTES	3137G0FF1	Residential MBS (non-agency)	5,412,173	5/25/2025	0.03%
FREDDIE MAC STRUCTURED AGENCY CREDIT RISK DEBT NOTES	3137G0ET2	Residential MBS (non-agency)	7,807,016	10/25/2027	0.04%
FREDDIE MAC STRUCTURED AGENCY CREDIT RISK DEBT NOTES	3137G0FW4	Residential MBS (non-agency)	5,100,000	12/25/2027	0.03%
FREDDIE MAC STRUCTURED AGENCY CREDIT RISK DEBT NOTES	3137G0GT0	Residential MBS (non-agency)	17,081,330	4/25/2028	0.09%
FREDDIE MAC STRUCTURED AGENCY CREDIT RISK DEBT NOTES	3137G0KX6	Residential MBS (non-agency)	670,193	3/25/2029	0.00%
FREDDIE MAC STRUCTURED AGENCY CREDIT RISK DEBT NOTES	3137G0LH0	Residential MBS (non-agency)	213,629	3/25/2029	0.00%
FREDDIE MAC STRUCTURED AGENCY CREDIT RISK DEBT NOTES	3137G0LT4	Residential MBS (non-agency)	6,933,950	4/25/2029	0.04%
FREDDIE MAC STRUCTURED AGENCY CREDIT RISK DEBT NOTES	3137G0MZ9	Residential MBS (non-agency)	998,420	8/25/2029	0.01%
FREDDIE MAC STRUCTURED AGENCY CREDIT RISK DEBT NOTES	3137G0QC6	Residential MBS (non-agency)	29,100,000	12/25/2029	0.16%
FREDDIE MAC STRUCTURED AGENCY CREDIT RISK DEBT NOTES	3137G0QP7	Residential MBS (non-agency)	877,078	3/25/2030	0.00%
FREDDIE MAC STRUCTURED AGENCY CREDIT RISK DEBT NOTES	3137G0QX0	Residential MBS (non-agency)	13,169,500	3/25/2030	0.07%
FREDDIE MAC STRUCTURED AGENCY CREDIT RISK DEBT NOTES	3137G0TG4	Residential MBS (non-agency)	3,925,769	7/25/2030	0.02%
FREDDIE MAC STRUCTURED AGENCY CREDIT RISK DEBT NOTES	3137G0UC1	Residential MBS (non-agency)	304,699	9/25/2030	0.00%
FWD SECURITIZATION TRUST	302980AA5	Residential MBS (non-agency)	9,380,234	6/25/2049	0.05%
FWD SECURITIZATION TRUST	36167VAA2	Residential MBS (non-agency)	11,852,805	11/25/2059	0.06%
GALTON FUNDING MORTGAGE TRUST 2017-1	36417JAY5	Residential MBS (non-agency)	4,479,254	11/25/2057	0.02%
GALTON FUNDING MORTGAGE TRUST 2017-2	36418AAJ6	Residential MBS (non-agency)	28,896,498	6/25/2059	0.16%
GALTON FUNDING MORTGAGE TRUST 2018-2	36418GAU8	Residential MBS (non-agency)	12,946,538	10/25/2058	0.07%
GALTON FUNDING MORTGAGE TRUST 2019-H1	36418XAA5	Residential MBS (non-agency)	12,529,464	10/25/2059	0.07%
GCAT 2019-NQM1 LLC	36166PAA6	Residential MBS (non-agency)	21,152,118	2/25/2059	0.11%
GCAT 2019-NQM2 TRUST	36166MAA3	Residential MBS (non-agency)	23,702,414	9/25/2059	0.13%
GE-WMC ASSET-BACKED PASS-THROUGH CERTIFICATES SERIES 2005-2	367910AR7	Residential MBS (non-agency)	1,507,999	12/25/2035	0.01%
GSAA HOME EQUITY TRUST 2005-6	36242D3W1	Residential MBS (non-agency)	628,673	6/25/2035	0.00%
GSAA HOME EQUITY TRUST 2005-8	362341CT4	Residential MBS (non-agency)	6,301,509	6/25/2035	0.03%
GSAMP TRUST 2004-AR2	36242DDP5	Residential MBS (non-agency)	588,090	8/25/2034	0.00%
GSAMP TRUST 2006-HE7	36245EAE8	Residential MBS (non-agency)	1,273,291	10/25/2046	0.01%

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Issuer Name	Cusip	Security Type	Principal Amount	Maturity Date <sup>1</sup>	Percent of Portfolio
HOME RE 2018-1 LTD	43730MAA6	Residential MBS (non-agency)	5,448,754	10/25/2028	0.03%
HOMEANC MORTGAGE TRUST 2005-4	43739EBS5	Residential MBS (non-agency)	10,242,684	10/25/2035	0.06%
HOMEWARD OPPORTUNITIES FUND I TRUST 2018-1	43789AAA2	Residential MBS (non-agency)	10,859,427	6/25/2048	0.06%
JP MORGAN MORTGAGE ACQUISITION TRUST 2006-CH1	46629TAE0	Residential MBS (non-agency)	22,973	7/25/2036	0.00%
JP MORGAN MORTGAGE ACQUISITION TRUST 2007-CH1	46630LAY0	Residential MBS (non-agency)	8,540,000	11/25/2036	0.05%
JP MORGAN MORTGAGE ACQUISITION TRUST 2007-CH4	46630CAD6	Residential MBS (non-agency)	2,314,542	1/25/2036	0.01%
JP MORGAN RESECURITIZATION TRUST SERIES 2014-1	46641TBG8	Residential MBS (non-agency)	5,733,645	6/26/2035	0.03%
LONG BEACH MORTGAGE LOAN TRUST 2004-1	542514EU4	Residential MBS (non-agency)	628,268	2/25/2034	0.00%
MASTR ADJUSTABLE RATE MORTGAGES TRUST 2004-13	576433UM6	Residential MBS (non-agency)	1,129,481	11/21/2034	0.01%
MASTR ASSET-BACKED SECURITIES TRUST 2006-FRE1	57643LPP5	Residential MBS (non-agency)	1,442,792	12/25/2035	0.01%
MERRILL LYNCH MORTGAGE INVESTORS TRUST SERIES 2005-AR1	59020UG90	Residential MBS (non-agency)	1,238,155	6/25/2036	0.01%
NEW CENTURY HOME EQUITY LOAN TRUST 2005-2	64352VKU4	Residential MBS (non-agency)	616,151	6/25/2035	0.00%
NEW CENTURY HOME EQUITY LOAN TRUST 2005-3	64352VLL3	Residential MBS (non-agency)	3,200,387	7/25/2035	0.02%
NEW RESIDENTIAL MORTGAGE LOAN TRUST 2018-4	64828FCQ3	Residential MBS (non-agency)	7,756,253	1/25/2048	0.04%
NOMURA HOME EQUITY LOAN INC HOME EQUITY LOAN TRUST SERIES 2	65536HAG3	Residential MBS (non-agency)	1,975,351	5/25/2035	0.01%
NOMURA RESECURITIZATION TRUST 2015-8R	65541AAL0	Residential MBS (non-agency)	2,908,994	11/25/2047	0.02%
OPTEUM MORTGAGE ACCEPTANCE CORP ASSET BACKED PASS-THROUGH C	68383NAX1	Residential MBS (non-agency)	808,943	4/25/2035	0.00%
OPTEUM MORTGAGE ACCEPTANCE CORP ASSET BACKED PASS-THROUGH C	68383NBP7	Residential MBS (non-agency)	12,082,000	7/25/2035	0.07%
OPTEUM MORTGAGE ACCEPTANCE CORP ASSET BACKED PASS-THROUGH C	68383NBM4	Residential MBS (non-agency)	1,308,306	7/25/2035	0.01%
PARK PLACE SECURITIES INC ASSET-BACKED PASS-THROUGH CERTIFI	70069FFK8	Residential MBS (non-agency)	361,179	1/25/2036	0.00%
PARK PLACE SECURITIES INC ASSET-BACKED PASS-THROUGH CTFS SE	70069FEK9	Residential MBS (non-agency)	5,273,072	2/25/2035	0.03%
POPULAR ABS MORTGAGE PASS-THROUGH TRUST 2005-A	73316PDA5	Residential MBS (non-agency)	113,316	6/25/2035	0.00%
RAMP SERIES 2005-RS1 TRUST	76112BJG6	Residential MBS (non-agency)	523,861	1/25/2035	0.00%
RAMP SERIES 2005-RS2 TRUST	76112BKE9	Residential MBS (non-agency)	4,214,296	2/25/2035	0.02%
RAMP SERIES 2005-RS6 TRUST	76112BTU4	Residential MBS (non-agency)	4,044,202	6/25/2035	0.02%
RASC SERIES 2004-KS10 TRUST	76110WG34	Residential MBS (non-agency)	6,415,718	11/25/2034	0.03%
RASC SERIES 2004-KS12 TRUST	76110WK88	Residential MBS (non-agency)	1,139,609	1/25/2035	0.01%
RASC SERIES 2005-KS11 TRUST	76110W7D2	Residential MBS (non-agency)	511,376	12/25/2035	0.00%
RASC SERIES 2005-KS12 TRUST	753910AD0	Residential MBS (non-agency)	1,056,554	1/25/2036	0.01%
RASC SERIES 2006-KS7 TRUST	75406XAD1	Residential MBS (non-agency)	847,907	9/25/2036	0.00%
RESIDENTIAL MORTGAGE LOAN TRUST 2019-3	76119NAA5	Residential MBS (non-agency)	17,317,424	9/25/2059	0.09%
SECURITIZED ASSET BACKED RECEIVABLES LLC TRUST 2006-CB1	81375WHF6	Residential MBS (non-agency)	10,362,836	1/25/2036	0.06%
SG RESIDENTIAL MORTGAGE TRUST 2018-1	81880KAA8	Residential MBS (non-agency)	3,274,299	4/27/2048	0.02%
SG RESIDENTIAL MORTGAGE TRUST 2019-3	78432BAA7	Residential MBS (non-agency)	2,982,246	9/25/2059	0.02%
SOUNDVIEW HOME LOAN TRUST 2005-CTX1	83611PBV2	Residential MBS (non-agency)	611,912	11/25/2035	0.00%
SOUNDVIEW HOME LOAN TRUST 2006-2	83611MNH7	Residential MBS (non-agency)	1,936,293	3/25/2036	0.01%
SPRUCE HILL MORTGAGE LOAN TRUST	85211XAA1	Residential MBS (non-agency)	17,378,407	4/29/2049	0.09%
STACR TRUST 2018-DNA2	35563TAA9	Residential MBS (non-agency)	938,279	12/25/2030	0.01%
STACR TRUST 2018-DNA3	35563WAA2	Residential MBS (non-agency)	975,445	9/25/2048	0.01%
STACR TRUST 2018-HRP2	35564ABN0	Residential MBS (non-agency)	14,000,000	2/25/2047	0.08%
STACR TRUST 2018-HRP2	35564AAK7	Residential MBS (non-agency)	7,710,000	2/25/2047	0.04%

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STARWOOD MORTGAGE RESIDENTIAL TRUST 2018-IMC1	85572KAA2	Residential MBS (non-agency)	9,489,233	3/25/2048	0.05%
STARWOOD MORTGAGE RESIDENTIAL TRUST 2018-IMC2	85572PAA1	Residential MBS (non-agency)	17,129,934	10/25/2048	0.09%
STARWOOD MORTGAGE RESIDENTIAL TRUST 2019-1	85571KAA3	Residential MBS (non-agency)	27,904,847	6/25/2049	0.15%
STARWOOD MORTGAGE RESIDENTIAL TRUST 2019-INV1	85572JAA5	Residential MBS (non-agency)	14,910,232	9/27/2049	0.08%
STRUCTURED ASSET INVESTMENT LOAN TRUST 2004-7	86358EKH8	Residential MBS (non-agency)	2,169,681	8/25/2034	0.01%
STRUCTURED ASSET INVESTMENT LOAN TRUST 2005-1	86358EQJ8	Residential MBS (non-agency)	2,740,504	2/25/2035	0.01%
STRUCTURED ASSET INVESTMENT LOAN TRUST 2005-3	86358ERW8	Residential MBS (non-agency)	627,759	4/25/2035	0.00%
STRUCTURED ASSET INVESTMENT LOAN TRUST 2005-5	86358ETG1	Residential MBS (non-agency)	107,523	6/25/2035	0.00%
STRUCTURED ASSET INVESTMENT LOAN TRUST 2005-HE1	86358EUV6	Residential MBS (non-agency)	634,833	7/25/2035	0.00%
STRUCTURED ASSET SECURITIES CORP MORTGAGE LOAN TRUST 2006-G	86360XAC4	Residential MBS (non-agency)	2,902,749	7/25/2036	0.02%
STRUCTURED ASSET SECURITIES CORP MORTGAGE LOAN TRUST 2006-N	86360PAD9	Residential MBS (non-agency)	282,995	5/25/2036	0.00%
STRUCTURED ASSET SECURITIES CORP MORTGAGE LOAN TRUST 2006-O	86359UAE9	Residential MBS (non-agency)	1,785,235	4/25/2036	0.01%
TOWD POINT HE TRUST 2019-HE1	89178AAA4	Residential MBS (non-agency)	4,879,966	4/25/2048	0.03%
TOWD POINT MORTGAGE TRUST 2017-1	89173FAA8	Residential MBS (non-agency)	2,254,202	10/25/2056	0.01%
VERUS SECURITIZATION TRUST	92537JAA5	Residential MBS (non-agency)	16,663,815	7/25/2059	0.09%
VERUS SECURITIZATION TRUST 2017-2	92536EAA7	Residential MBS (non-agency)	7,833,941	7/25/2047	0.04%
VERUS SECURITIZATION TRUST 2017-SG1	92536KAA3	Residential MBS (non-agency)	2,618,757	11/25/2047	0.01%
VERUS SECURITIZATION TRUST 2018-2	92535TAA5	Residential MBS (non-agency)	17,650,875	6/1/2058	0.10%
VERUS SECURITIZATION TRUST 2019-1	92537DAA8	Residential MBS (non-agency)	27,879,976	2/25/2059	0.15%
VERUS SECURITIZATION TRUST 2019-2	92537GAA1	Residential MBS (non-agency)	22,014,711	5/25/2059	0.12%
VERUS SECURITIZATION TRUST 2019-INV2	92537HAA9	Residential MBS (non-agency)	21,525,460	7/25/2059	0.12%
VERUS SECURITIZATION TRUST 2019-INV3	92537MAA8	Residential MBS (non-agency)	10,420,321	11/25/2059	0.06%
WELLS FARGO HOME EQUITY ASSET-BACKED SECURITIES 2005-2 TRUS	9497ENAD5	Residential MBS (non-agency)	518,599	11/25/2035	0.00%
WELLS FARGO HOME EQUITY ASSET-BACKED SECURITIES 2005-3 TRUS	9497EMAG0	Residential MBS (non-agency)	228,408	12/25/2035	0.00%
ALLY AUTO RECEIVABLES TRUST 2017-2	02007HAD3	Short-term asset-backed securities	8,580,000	3/15/2022	0.05%
ALLY AUTO RECEIVABLES TRUST 2018-1	02007MAE0	Short-term asset-backed securities	21,931,777	6/15/2022	0.12%
ALLY AUTO RECEIVABLES TRUST 2019-1	02004WAB7	Short-term asset-backed securities	6,703,138	3/15/2022	0.04%
AMERICAN EXPRESS CREDIT ACCOUNT MASTER TRUST	02587AAJ3	Short-term asset-backed securities	35,246,000	9/15/2022	0.19%
AMERICAN EXPRESS CREDIT ACCOUNT MASTER TRUST	02582JHE3	Short-term asset-backed securities	38,200,000	11/15/2022	0.21%
BANK OF THE WEST AUTO TRUST 2018-1	065603AC6	Short-term asset-backed securities	15,665,000	12/15/2022	0.09%
BANK OF THE WEST AUTO TRUST 2019-1	065606AB1	Short-term asset-backed securities	3,689,908	10/17/2022	0.02%
BMW VEHICLE OWNER TRUST 2018-A	09659QAD9	Short-term asset-backed securities	11,957,658	4/25/2022	0.06%
CAPITAL ONE MULTI-ASSET EXECUTION TRUST	14041NFK2	Short-term asset-backed securities	7,200,000	1/17/2023	0.04%
CAPITAL ONE PRIME AUTO RECEIVABLES TRUST 2019-2	14043TAB2	Short-term asset-backed securities	11,860,399	9/15/2020	0.06%
CARMAX AUTO OWNER TRUST 2016-2	14314MAD5	Short-term asset-backed securities	14,499,537	9/15/2021	0.08%
CARMAX AUTO OWNER TRUST 2016-3	14314EAD3	Short-term asset-backed securities	5,470,000	1/18/2022	0.03%
CARMAX AUTO OWNER TRUST 2017-3	14314WAD3	Short-term asset-backed securities	1,515,021	4/15/2022	0.01%
CARMAX AUTO OWNER TRUST 2017-4	14314RAC6	Short-term asset-backed securities	37,427,643	10/17/2022	0.20%
CARMAX AUTO OWNER TRUST 2018-1	14314AAC3	Short-term asset-backed securities	15,000,000	11/15/2022	0.08%
CITIBANK CREDIT CARD ISSUANCE TRUST	17305EGB5	Short-term asset-backed securities	38,045,000	4/7/2022	0.21%
DISCOVER CARD EXECUTION NOTE TRUST	254683BP9	Short-term asset-backed securities	53,383,000	10/17/2022	0.29%



# Putnam Ultra Short Duration Income Fund

As of 12/31/2019

## Security Detail

Issuer Name	Cusip	Security Type	Principal Amount	Maturity Date <sup>1</sup>	Percent of Portfolio
DISCOVER CARD EXECUTION NOTE TRUST	254683CB9	Short-term asset-backed securities	25,540,000	2/15/2023	0.14%
FORD CREDIT AUTO OWNER TRUST 2016-C	34531CAE0	Short-term asset-backed securities	14,952,000	2/15/2022	0.08%
FORD CREDIT AUTO OWNER TRUST 2018-A	34528FAD0	Short-term asset-backed securities	19,599,578	11/15/2022	0.11%
FORD CREDIT AUTO OWNER TRUST 2019-B	34532DAB3	Short-term asset-backed securities	19,605,508	2/15/2022	0.11%
FORD CREDIT FLOORPLAN MASTER OWNER TRUST A	34528QDW1	Short-term asset-backed securities	4,300,000	1/15/2022	0.02%
GM FINANCIAL AUTOMOBILE LEASING TRUST 2019-4	36258MAB0	Short-term asset-backed securities	23,000,000	11/16/2022	0.12%
GOLDEN CREDIT CARD TRUST	380881CP5	Short-term asset-backed securities	7,990,000	4/15/2022	0.04%
HONDA AUTO RECEIVABLES 2018-1 OWNER TRUST	43814UAC3	Short-term asset-backed securities	7,693,848	2/15/2022	0.04%
HYUNDAI AUTO LEASE SECURITIZATION TRUST 2017-C	44891QAD4	Short-term asset-backed securities	6,754,316	2/16/2021	0.04%
HYUNDAI AUTO RECEIVABLES TRUST 2016-B	44891EAD1	Short-term asset-backed securities	13,035,000	11/15/2022	0.07%
HYUNDAI AUTO RECEIVABLES TRUST 2017-A	44931PAE6	Short-term asset-backed securities	7,729,000	4/17/2023	0.04%
NISSAN AUTO RECEIVABLES 2017-C OWNER TRUST	65478HAD0	Short-term asset-backed securities	10,289,980	4/18/2022	0.06%
SANTANDER RETAIL AUTO LEASE TRUST 2017-A	80285AAG0	Short-term asset-backed securities	3,186,235	1/20/2021	0.02%
STATION PLACE SECURITIZATION TRUST 2018-8	85775AAA9	Short-term asset-backed securities	33,219,000	2/24/2020	0.18%
STATION PLACE SECURITIZATION TRUST SERIES 2019-11	85771JAA4	Short-term asset-backed securities	30,965,000	10/24/2020	0.17%
STATION PLACE SECURITIZATION TRUST SERIES 2019-3	85775BAA7	Short-term asset-backed securities	23,217,000	6/24/2020	0.13%
STATION PLACE SECURITIZATION TRUST SERIES 2019-7	85775CAA5	Short-term asset-backed securities	16,329,000	9/24/2020	0.09%
TOYOTA AUTO RECEIVABLES 2017-A OWNER TRUST	89238MAE8	Short-term asset-backed securities	14,026,000	9/15/2022	0.08%
USAA AUTO OWNER TRUST 2019-1	90290EAB5	Short-term asset-backed securities	9,500,000	2/15/2022	0.05%
WORLD OMNI AUTO RECEIVABLES TRUST 2016-B	98161PAD5	Short-term asset-backed securities	7,336,709	2/15/2022	0.04%
WORLD OMNI AUTO RECEIVABLES TRUST 2016-B	98161PAE3	Short-term asset-backed securities	10,855,000	11/15/2022	0.06%
WORLD OMNI AUTO RECEIVABLES TRUST 2018-A	98161VAC4	Short-term asset-backed securities	5,502,996	4/17/2023	0.03%
FEDERAL FARM CREDIT BANKS FUNDING CORP	3133EK6W1	U.S. Treasury/agency	93,000,000	11/7/2022	0.50%

<sup>1</sup> Certain securities effective maturity is less than the stated final maturity due to certain structural features.



