#### **Mortgage Pass-Through Certificates**

June 25, 2019 Distribution



#### **External Parties**

#### Seller

Morgan Stanley

#### Servicer(s)

PHH Mortgage Corporation

#### Underwriter(s)

Morgan Stanley Dean Witter

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#### **Dates**

Cut-Off Date: October 01, 2003
Close Date: October 30, 2003
First Distribution Date: November 25, 2003

Distribution Date: June 25, 2019
Next Distribution Date: July 25, 2019
Distribution Frequency: Monthly
Record Date: June 24, 2019

May 31, 2019

Determination Date June 25, 2019

#### **Contacts**

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https://tss.sfs.db.com/investpublic

<sup>(\*)</sup> In connection with Deutsche Bank's preparation of this statement to securities holders, Deutsche Bank (in its applicable capacity as trustee, securities administrator, bond calculation agent or other administrative role) is conclusively relying upon, and has not independently verified, information provided to it by various third parties, including the servicer, master servicer, special servicer, sub-servicer or any other party to the transaction. Deutsche Bank refers readers to the prospectus, prospectus supplement, placement memorandum or other disclosure document, as well as to the governing transaction documents, applicable to this transaction for additional information concerning the roles and responsibilities of the parties.

<sup>(\*\*)</sup> Please see informational notice posted to the Trustee's investor reporting website regarding recent allegations pertaining to certain loan servicer foreclosure practices.

**Mortgage Pass-Through Certificates** 

June 25, 2019 Distribution



#### **Certificate Payment Report**

Curren	t Period Distri	ibution -							
Class	Class Type	Original Face Value	Prior Principal Balance	Interest (2)	Principal (3)	Total Distribution (4)=(2)+(3)	Realized Loss	Deferred Interest	Current Principal Balance (7)=(1)-(3)-(5)+(6)
A-1 A-2	SER SER	240,798,000.00 159,000,000.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
A-3 M-1	SER MEZ	61,980,000.00 37,403,000.00	2,108,739.05 8,027,111.91	5,690.84 21,537.86	0.00 85,837.63	5,690.84 107,375.49	0.00 0.00	0.00 0.00	2,108,739.05 7,941,274.28
M-2 M-3	MEZ MEZ	30,209,000.00 8,631,000.00	1,238,875.85 608,675.72	4,798.34 2,570.52	26,500.41 0.00	31,298.75 2,570.52	0.00 0.00	0.00 0.00	1,212,375.44 608,675.72
B-1 B-2	SUB SUB SUB	8,631,000.00 8,631,000.00	619,179.74 205,036.31	3,481.66 1,152.92	0.00	3,481.66 1,152.92	0.00 0.00	0.00 0.00	619,179.74 205,036.31
B-3 X UT-R	SUB/EXE RES	7,194,000.00 12,947,949.00 0.00	191,925.89 764,955.23 0.00	1,079.20 0.00 0.00	0.00 0.00 0.00	1,079.20 0.00 0.00	0.00 0.00 0.00	0.00 21,325.86 0.00	191,925.89 786,281.09 0.00
P	EXE/P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total		575,424,949.00	13,764,499.70	40,311.34	112,338.04	152,649.38	0.00	21,325.86	13,673,487.52

Interest	t Accrual D	Detail		Current Po	eriod Factor Info	ormation per \$1,0	000 of Original	Face Value		
					Orig. Principal	Prior				Current
	Period	Period			(with Notional)	Principal			Total	Principal
Class	Starting	Ending	Method	Cusip	Balance	Balance	Interest	Principal	Distribution	Balance
	-				(1)	(1)	(2)	(3)	(4)=(2)+(3)	(5)
A-1	05/28/19	06/24/19	A-Act/360	61746REP2	240,798,000.00	0.000000	0.000000	0.000000	0.000000	0.000000
A-2	05/28/19	06/24/19	A-Act/360	61746REF4	159,000,000.00	0.000000	0.000000	0.000000	0.000000	0.000000
A-3	05/28/19	06/24/19	A-Act/360	61746REG2	61,980,000.00	34.022895	0.091817	0.000000	0.091817	34.022895
M-1	05/28/19	06/24/19	A-Act/360	61746REH0	37,403,000.00	214.611446	0.575832	2.294940	2.870772	212.316506
M-2	05/28/19	06/24/19	A-Act/360	61746REJ6	30,209,000.00	41.010158	0.158838	0.877236	1.036074	40.132922
M-3	05/28/19	06/24/19	A-Act/360	61746REK3	8,631,000.00	70.522039	0.297824	0.000000	0.297824	70.522039
B-1	05/28/19	06/24/19	A-Act/360	61746REL1	8,631,000.00	71.739050	0.403390	0.000000	0.403390	71.739050
B-2	05/28/19	06/24/19	A-Act/360	61746REM9	8,631,000.00	23.755800	0.133579	0.000000	0.133579	23.755800
B-3	05/28/19	06/24/19	A-Act/360	61746REN7	7,194,000.00	26.678606	0.150014	0.000000	0.150014	26.678606
X					12,947,949.00	59.079259	0.000000	0.000000	0.000000	60.726304
UT-R					0.00	0.000000	0.000000	0.000000	0.000000	0.000000
P				MS03H3102	0.00	0.000000	0.000000	0.000000	0.000000	0.000000



June 25, 2019 Distribution



Distrib	ution to Date - I	REMIC II							
Class	Original Face Value	Interest (2)	Unscheduled Principal	Scheduled Principal	Total Principal (5)=(3)+(4)	Total Distribution (6)=(2)+(5)	Realized Loss	Deferred Interest	Current Principal Balance (9)=(1)-(5)-(7)+(8)
A-1 A-2 A-3 M-1 M-2 M-3 B-1 B-2 B-3 X UT-R	240,798,000.00 159,000,000.00 61,980,000.00 37,403,000.00 30,209,000.00 8,631,000.00 8,631,000.00 7,194,000.00 12,947,949.00 0.00	7,814,317.91 3,003,827.56 5,534,074.82 11,628,405.97 8,793,773.04 2,320,119.27 2,877,978.38 2,868,782.18 2,216,497.50 39,311,427.92 0.00 8,691,014.07	234,985,401.90 154,783,542.20 58,760,217.65 23,441,203.86 25,188,012.51 7,437,854.96 7,329,498.40 7,573,313.18 6,410,314.85 5,277,795.21 0.00 0.00	5,812,598.09 4,216,457.84 1,111,043.30 6,020,486.44 3,808,612.09 584,469.31 682,321.87 852,650.52 591,759.54 0.00 0.00	240,798,000.00 159,000,000.00 59,871,260.95 29,461,725.72 28,996,624.56 8,022,324.28 8,011,820.25 8,425,963.69 7,002,074.36 7,959,238.58 0.00 0.00	248,612,317.91 162,003,827.56 65,405,335.77 41,090,131.69 37,790,397.60 10,342,443.55 10,889,798.63 11,294,745.87 9,218,571.86 47,270,666.50 0.00 8,691,014.07	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 4,724,218.61 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 3,925,320.00 0.00 0.00	0.00 0.00 2,108,739.05 7,941,274.28 1,212,375.44 608,675.72 619,179.74 205,036.31 191,925.89 786,281.09 0.00 0.00
Total	575,424,949.00	95,060,218.62	531,187,154.72	23.680.399 00	557,549,032.39	652,609,251.01	4,724,218.61	3,925,320.00	13,673,487.52

	Pass	Prior Principal		Non-	Prior	Unscheduled		Paid or	Current
	Through	(with Notional)	Accrued	Supported	Unpaid	Interest	Optimal	Deferred	Unpaid
Class	Rate	Balance	Interest	Interest SF	Interest	Adjustment	Interest	Interest	Interest
			(1)	(2)	(3)	(4)	(5)=(1)-(2)+(3)+(4)	(6)	(7)=(5)-(6)
A-1	0.00000%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A-2	0.00000%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A-3	3.46975%	2,108,739.05	5,690.84	0.00	0.00	0.00	5,690.84	5,690.84	0.00
M-1	3.44975%	8,027,111.91	21,537.86	0.00	0.00	0.00	21,537.86	21,537.86	0.00
M-2	4.97975%	1,238,875.85	4,798.34	0.00	8,303.49	0.00	13,101.83	4,798.34	8,335.65
M-3	5.42975%	608,675.72	2,570.52	0.00	5,072.81	0.00	7,643.33	2,570.52	5,094.23
B-1	7.22961%	619,179.74	3,481.66	0.00	5,447.07	0.00	8,928.73	3,481.66	5,477.70
B-2	7.22961%	205,036.31	1,152.92	0.00	1,805.65	0.00	2,958.57	1,152.92	1,815.80
B-3	7.22961%	191,925.89	1,079.20	0.00	1,690.24	0.00	2,769.44	1,079.20	1,699.74
X	35.84388%	764,955.23	0.00	0.00	0.00	0.00	0.00	21,325.86	0.00
UT-R	0.00000%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P	0.00000%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total		13,764,499.70	40,311.34	0.00	22,319.26	0.00	62,630.60	61,637.20	22,423.12



June 25, 2019 Distribution



#### **Collection Account Report**

SUMMARY			
	Group 2	Group 1	Total
Principal Collections	73,037.84	17,974.34	91,012.18
Principal Withdrawals	0.00	0.00	0.00
Principal Other Accounts	0.00	0.00	0.00
TOTAL NET PRINCIPAL	73,037.84	17,974.34	91,012.18
Interest Collections	43,800.68	29,664.90	73,465.58
Interest Withdrawals	(5,624.88)	(1,590.71)	(7,215.59)
Interest Other Accounts	0.00	0.00	0.00
Interest Fees	2,705.47	1,907.30	4,612.78
TOTAL NET INTEREST	35,470.33	26,166.89	61,637.21
TOTAL AVAILABLE FUNDS FOR DISTRIBUTION	108,508.17	44,141.23	152,649.39

PRINCIPAL - COLLECTIONS			
	Group 2	Group 1	Total
Scheduled Principal Received	25,970.05	15,959.96	41,930.01
Prepayments In Full	41,659.78	0.00	41,659.78
Curtailments	5,408.01	2,014.38	7,422.39
Liquidations	0.00	0.00	0.00
Insurance Principal	0.00	0.00	0.00
Repurchased Principal Amounts	0.00	0.00	0.00
Other Principal	0.00	0.00	0.00
Total Realized Loss Of Principal	0.00	0.00	0.00
Delinquent Principal	(4,410.93)	(2,452.19)	(6,863.12)
Advanced Principal	4,410.93	2,452.19	6,863.12
TOTAL PRINCIPAL COLLECTED	73,037.84	17,974.34	91,012.18

Group 2	Group 1	Total
0.00	0.00	0.00
0.00	0.00	0.00
	0.00	0.00 0.00

#### PRINCIPAL - OTHER ACCOUNTS

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June 25, 2019 Distribution



INTEREST - COLLECTIONS			
	Group 2	Group 1	Total
Scheduled Interest	53,458.03	34,240.02	87,698.05
Liquidation Interest	0.00	0.00	0.00
Repurchased Interest	0.00	0.00	0.00
Insurance Interest	0.00	0.00	0.00
Other Interest	0.00	0.00	0.00
Relief Act Interest Shortfalls	0.00	0.00	0.00
Prepayment Interest Shortfalls	(195.28)	0.00	(195.28)
Compensating Interest	195.28	0.00	195.28
Delinquent Interest	(17,993.38)	(9,478.59)	(27,471.97)
Interest Advanced	8,809.52	4,903.48	13,713.00
Total Realized Loss of Interest	(473.49)	0.00	(473.49)
TOTAL INTEREST COLLECTED	43,800.68	29,664.90	73,465.58

INTEREST - WITHDRAWALS			
	Group 2	Group 1	Total
Non Recoverable Advances	5,624.88	1,590.71	7,215.59
Modification Loss	0.00	0.00	0.00
Capitalized/Deferred Interest	0.00	0.00	0.00
TOTAL INTEREST WITHDRAWALS	5,624.88	1,590.71	7,215.59

	INTEREST - OTHER ACCOUNTS
Group 2 Group 1 Total	
0.00 0.00 0.00	Prepayment Charges
0.00	Amount withdrawn from Reserve Fund
0.00	Cap fund release to Trustee
0.00 0.00 0.00	TOTAL INTEREST OTHER ACCOUNTS
0.00 0.00	TOTAL INTEREST OTHER ACCOUNTS

INTEREST FEES			
	Group 2	Group 1	Total
Current Servicing Fees	2,157.94	1,551.55	3,709.49
Current Trustee Fees	54.93	35.69	90.62
Extraordinary Expenses	222.39	144.50	366.88
Extraordinary Expense Recovery Charge**	270.22	175.57	445.79
California Tax Filing fee	0.00	0.00	0.00
Counselling Fee	0.00	0.00	0.00
Legal Fees	0.00	0.00	0.00
TOTAL INTEREST OTHER FEES	2,705.47	1,907.30	4,612.78

<sup>\*\*</sup>Extraordinary Expense Recovery Charge ("EERC"): charge imposed to recover extraordinary costs and expenses incurred by Deutsche Bank in administering residential mortgage backed securities ("RMBS") transaction(s) under current market conditions. The EERC is based upon, and may be adjusted periodically in accordance with, Deutsche Bank's experienced level of extraordinary costs and expenses that are not allocable to specific trusts, but which arise from the administration of the portfolio of RMBS trusts administered by Deutsche Bank's Trust & Securities Services division. Costs and expenses allocable to specific trusts will continue to be charged separately to those trusts in addition to the EERC.





June 25, 2019 Distribution

#### **Credit Enhancement Report**

ACCOUNTS	
Net WAC Rate Carryover Reserve Account	
Initial Balance	0.00
Begining Balance	0.00
Amount Deposited	0.00
Amount Withdrawn	0.00
Ending Balance	0.00

INSURANCE		
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STRUCTURAL FEATURES			
	Group 2	Group 1	Total
Beginning Overcollateralization			764,955.23
Overcollateralized Amount- After Current Losses			764,955.23
Ending Overcollateralization			786,281.09
Excess Cashflow			21,325.86
Overcollateralization Excess			0.00
Overcollateralization Deficit			2,112,169.77
Extra Principal Distribution Amount			21,325.86
Overcollateralization Release Amount			0.00
Overcollateralization Target Amount			2,877,125.00



June 25, 2019 Distribution

# Deutsche Bank

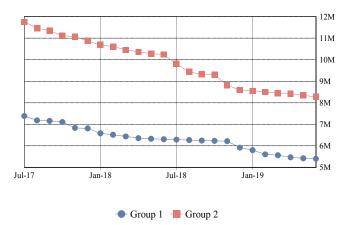
#### **Collateral Report**

	Group 2	Group 1	Total
<u>Loan Count:</u>			
Original	1,684	2,031	3,715
Prior	95	64	159
Prefunding	0	0	(
Scheduled Paid Offs	0	0	(
Full Voluntary Prepayments	(1)	0	(1
Repurchases	0	0	(
Liquidations	0	0	(
Current	94	64	158
Principal Balance:			
Original	275,347,664.78	300,054,841.48	575,402,506.26
Prior	8,343,410.44	5,421,089.26	13,764,499.70
Prefunding	0.00	0.00	0.00
Deferred Interest	0.00	0.00	0.00
Scheduled Principal	(25,970.05)	(15,959.96)	(41,930.01)
Partial Prepayments	(5,408.01)	(2,014.38)	(7,422.39)
Full Voluntary Prepayments	(41,659.78)	0.00	(41,659.78)
Repurchases	0.00	0.00	0.00
Liquidations	0.00	0.00	0.00
Current	8,270,372.60	5,403,114.92	13,673,487.52
Prior Forebearance	0.00	0.00	0.00
Current Forebearance	0.00	0.00	0.00

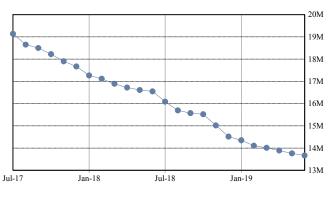
#### PREFUNDING

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#### **Current Principal Balance by Groups**



#### **Total Current Principal Balance**



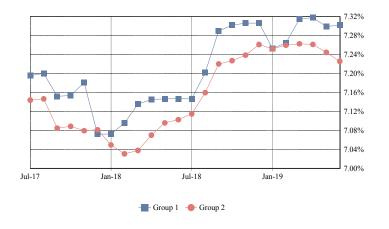
#### **Mortgage Pass-Through Certificates**

#### June 25, 2019 Distribution

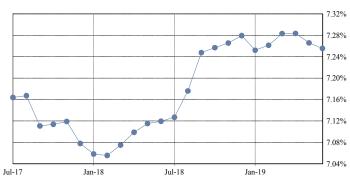


CHARACTERISTICS			
	Group 2	Group 1	Total
Weighted Average Coupon Original	7.36486%	7.32306%	7.34306%
Weighted Average Coupon Prior	7.24447%	7.29883%	7.26588%
Weighted Average Coupon Current	7.22559%	7.30161%	7.25553%
Weighted Average Months to Maturity Original	346	353	350
Weighted Average Months to Maturity Prior	156	161	158
Weighted Average Months to Maturity Current	155	160	157
Weighted Avg Remaining Amortization Term Original	349	353	351
Weighted Avg Remaining Amortization Term Prior	159	161	160
Weighted Avg Remaining Amortization Term Current	158	160	159
Weighted Average Seasoning Original	1.00	1.00	1.00
Weighted Average Seasoning Prior	187.00	187.00	187.00
Weighted Average Seasoning Current	188.00	188.00	188.00

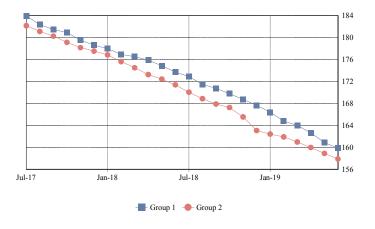
#### Weighted Average Coupon by Groups



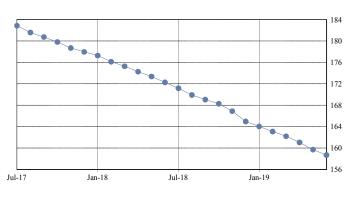
## **Total Weighted Average Coupon**



#### Weighted Average Amortization Term by Groups



#### **Total Weighted Average Amortization Term**





June 25, 2019 Distribution



ARM CHARACTERISTICS			
	Group 2	Group 1	Total
Weighted Average Margin Original	6.17611%	6.13030%	6.14881%
Weighted Average Margin Prior	6.76808%	6.45495%	6.60642%
Weighted Average Margin Current	6.76845%	6.45531%	6.60686%
Weighted Average Max Rate Original	13.96907%	13.77881%	13.85566%
Weighted Average Max Rate Prior	14.89060%	14.29300%	14.58207%
Weighted Average Max Rate Current	14.89068%	14.29334%	14.58244%
Weighted Average Min Rate Original	7.54297%	7.41269%	7.46531%
Weighted Average Min Rate Prior	8.23079%	7.84524%	8.03174%
Weighted Average Min Rate Current	8.23042%	7.84579%	8.03194%
Weighted Average Cap Up Original	1.21389%	1.18515%	1.19676%
Weighted Average Cap Up Prior	1.32991%	1.23739%	1.28214%
Weighted Average Cap Up Current	1.33013%	1.23733%	1.28224%
Weighted Average Cap Down Original	1.21389%	1.18515%	1.19676%
Weighted Average Cap Down Prior	1.32991%	1.23739%	1.28214%
Weighted Average Cap Down Current	1.33013%	1.23733%	1.28224%

	Group 2	Group 1	Total
Current Servicing Fees	2,157.94	1,551.55	3,709.49
Delinquent Servicing Fees	618.59	335.11	953.70
TOTAL SERVICING FEES	2,776.53	1,886.66	4,663.19
Compensating Interest	(195.28)	0.00	(195.28)
Delinquent Servicing Fees	(618.59)	(335.11)	(953.70)
COLLECTED SERVICING FEES	2,127.72	1,619.85	3,747.57
Aggregate Advances with respect to this Distribution	13,220.45	7,355.66	20,576.12

ADDITIONAL COLLATERAL INFORMATION			
	Group 2	Group 1	Total
Net Prepayment Interest Shortfall	0.00	0.00	0.00



June 25, 2019 Distribution

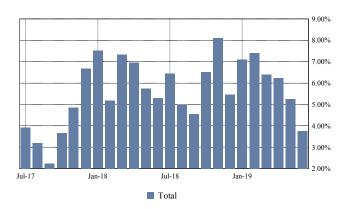
## Deutsche Bank

#### **Delinquency Report**

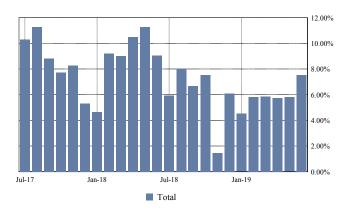
TOTAL		< 1 PMT	1 PMT	2 PMTS	3+ PMTS	TOTAL
DELINQUENT	Balance % Balance # Loans % # Loans		429,093.79 3.14% 8 5.06%	85,368.59 0.62% 1 0.63%	267,230.99 1.95% 2 1.27%	781,693.37 5.72% 11 6.96%
FORECLOSURE	Balance	0.00	0.00	0.00	1,030,371.39	1,030,371.39
	% Balance	0.00%	0.00%	0.00%	7.54%	7.54%
	# Loans	0	0	0	8	8
	% # Loans	0.00%	0.00%	0.00%	5.06%	5.06%
BANKRUPTCY	Balance	279,303.44	15,045.18	0.00	689,819.94	984,168.56
	% Balance	2.04%	0.11%	0.00%	5.04%	7.20%
	# Loans	2	1	0	8	11
	% # Loans	1.27%	0.63%	0.00%	5.06%	6.96%
REO	Balance	0.00	0.00	0.00	322,865.53	322,865.53
	% Balance	0.00%	0.00%	0.00%	2.36%	2.36%
	# Loans	0	0	0	3	3
	% # Loans	0.00%	0.00%	0.00%	1.90%	1.90%
TOTAL	Balance	279,303.44	444,138.97	85,368.59	2,310,287.85	3,119,098.85
	% Balance	2.04%	3.25%	0.62%	16.90%	22.81%
	# Loans	2	9	1	21	33
	% # Loans	1.27%	5.70%	0.63%	13.29%	20.89%

Utilized OTS Delinquency Methodology for Calculating Delinquency Buckets and Amounts

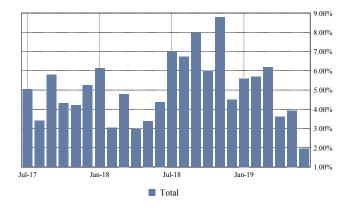
#### 1 or 2 Payments Delinquent

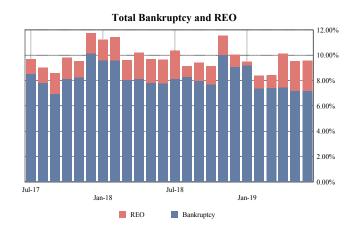


#### **Total Foreclosure**



#### 3 or More Payments Delinquent





#### **Mortgage Pass-Through Certificates**

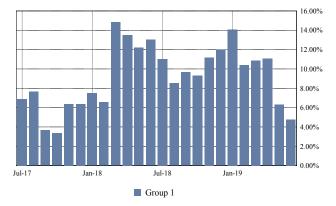
June 25, 2019 Distribution

Deutsche Bank

GROUP 1		< 1 PMT	1 PMT	2 PMTS	3+ PMTS	TOTAL
DELINQUENT	Balance % Balance # Loans % # Loans		171,619.38 3.18% 3 4.69%	85,368.59 1.58% 1 1.56%	0.00 0.00% 0 0.00%	256,987.97 4.76% 4 6.25%
FORECLOSURE	Balance	0.00	0.00	0.00	363,556.54	363,556.54
	% Balance	0.00%	0.00%	0.00%	6.73%	6.73%
	# Loans	0	0	0	3	3
	% # Loans	0.00%	0.00%	0.00%	4.69%	4.69%
BANKRUPTCY	Balance	0.00	0.00	0.00	225,340.26	225,340.26
	% Balance	0.00%	0.00%	0.00%	4.17%	4.17%
	# Loans	0	0	0	2	2
	% # Loans	0.00%	0.00%	0.00%	3.13%	3.13%
REO	Balance	0.00	0.00	0.00	135,146.03	135,146.03
	% Balance	0.00%	0.00%	0.00%	2.50%	2.50%
	# Loans	0	0	0	2	2
	% # Loans	0.00%	0.00%	0.00%	3.13%	3.13%
TOTAL	Balance	0.00	171,619.38	85,368.59	724,042.83	981,030.80
	% Balance	0.00%	3.18%	1.58%	13.40%	18.16%
	# Loans	0	3	1	7	11
	% # Loans	0.00%	4.69%	1.56%	10.94%	17.19%

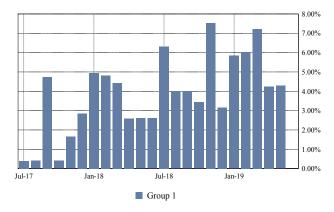
Utilized OTS Delinquency Methodology for Calculating Delinquency Buckets and Amounts

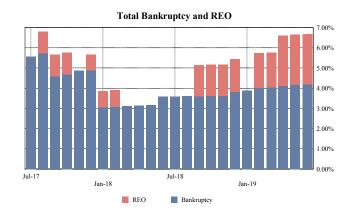




# Total Foreclosure 14.00% 12.00% 10.00% 8.00% 4.00% 4.00% 0.00% Group 1

#### 3 or More Payments Delinquent





#### **Mortgage Pass-Through Certificates**

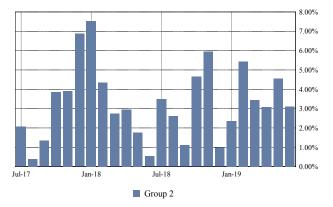
#### June 25, 2019 Distribution

Deutsche Bank

GROUP 2		< 1 PMT	1 PMT	2 PMTS	3+ PMTS	TOTAL
DELINQUENT	Balance % Balance # Loans % # Loans		257,474.41 3.11% 5 5.32%	0.00 0.00% 0 0.00%	267,230.99 3.23% 2 2.13%	524,705.40 6.34% 7 7.45%
FORECLOSURE	Balance	0.00	0.00	0.00	666,814.85	666,814.85
	% Balance	0.00%	0.00%	0.00%	8.06%	8.06%
	# Loans	0	0	0	5	5
	% # Loans	0.00%	0.00%	0.00%	5.32%	5.32%
BANKRUPTCY	Balance	279,303.44	15,045.18	0.00	464,479.68	758,828.30
	% Balance	3.38%	0.18%	0.00%	5.62%	9.18%
	# Loans	2	1	0	6	9
	% # Loans	2.13%	1.06%	0.00%	6.38%	9.57%
REO	Balance	0.00	0.00	0.00	187,719.50	187,719.50
	% Balance	0.00%	0.00%	0.00%	2.27%	2.27%
	# Loans	0	0	0	1	1
	% # Loans	0.00%	0.00%	0.00%	1.06%	1.06%
TOTAL	Balance	279,303.44	272,519.59	0.00	1,586,245.02	2,138,068.05
	% Balance	3.38%	3.30%	0.00%	19.18%	25.85%
	# Loans	2	6	0	14	22
	% # Loans	2.13%	6.38%	0.00%	14.89%	23.40%

Utilized OTS Delinquency Methodology for Calculating Delinquency Buckets and Amounts

1 or 2 Payments Delinquent

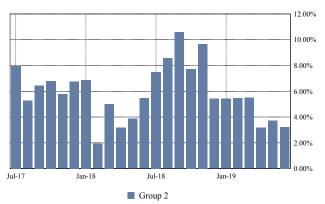


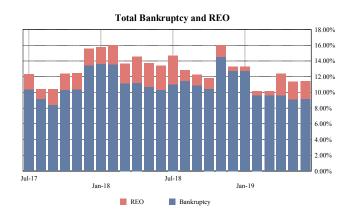
14.00% 12.00% 10.00% 8.00% 6.00% 4.00% 2.00%

Group 2

**Total Foreclosure** 

#### 3 or More Payments Delinquent







June 25, 2019 Distribution

# Deutsche Bank

#### **REO Report**

& Principal Principal Loan Group Balance Balance  Became REO Property in a Prior Period:	Paid to Date	Note Rate	LTV at Origination	Original Term	Payment Date
•	Date	Rate	Origination	Term	Date
Became REO Property in a Prior Period:					
Became REO Property in a Prior Period:					
• •					
7100164131 1 104,400.00 96,239.99	01-Nov-2011	9.000%	NY - 90.00%	360	01-Nov-2003
7100775233 2 213,300.00 187,719.50	01-May-2015	7.990%	GA - 90.00%	360	01-Nov-2003
7100130033 1 50,000.00 38,906.04	01-Feb-2017	9.375%	OK - 80.00%	360	01-Nov-2003

TOTAL 367,700.00 322,865.53



June 25, 2019 Distribution

# Deutsche Bank

#### **Foreclosure Report**

Loan Number	Original	Stated		Current	State &		First
&	Principal	Principal	Paid to	Note	LTV at	Original	Payment
Loan Group	Balance	Balance	Date	Rate	Origination	Term	Date
Became Foreclosure l	Property this Period	:					
7100006977 1	290,000.00	232,396.33	01-Mar-2012	6.000%	NY - 68.00%	300	01-Nov-2003
TOTAL	290,000.00	232,396.33					
Became Foreclosure l	Property in a Prior l	Period:					
7100006530 2	35,000.00	566.70	01-May-2013	9.350%	TX - 57.00%	180	01-Nov-2003
7100006944 2	59,250.00	66,099.05	01-Jul-2008	5.000%	TX - 79.00%	360	01-Nov-2003
7100007066 1	63,000.00	47,670.64	01-May-2018	9.250%	TX - 79.00%	360	01-Nov-2003
7100007314 2	228,000.00	197,855.98	01-Oct-2010	6.500%	WA - 80.00%	360	01-Nov-2003
7100172258 1	150,000.00	83,489.57	01-Sep-2009	6.150%	NY - 46.00%	240	01-Nov-2003
7100174585 2	116,000.00	82,615.50	01-Jul-2015	6.750%	TX - 80.00%	360	01-Nov-2003
7100772016 2	356,250.00	319,677.62	01-Sep-2009	9.125%	FL - 95.00%	360	01-Nov-2003
TOTAL	1,007,500.00	797,975.06					



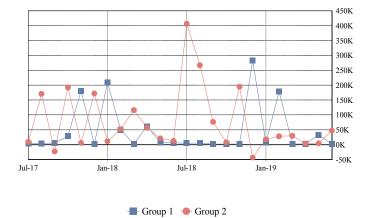
June 25, 2019 Distribution



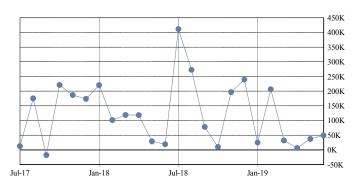
#### **Prepayment Report**

VOLUNTARY PREPAYMENTS			
	Group	2 Group 1	Tota
<u>Current</u>			
Number of Paid in Full Loans	1	0	1
Number of Repurchased Loans	0	0	0
Total Number of Loans Prepaid in Full	1	0	1
Curtailments Amount	5,408.01	2,014.38	7,422.39
Paid in Full Balance	41,659.78	0.00	41,659.78
Repurchased Loans Balance	0.00	0.00	0.00
Total Prepayment Amount	47,067.79	2,014.38	49,082.17
<u>Cumulative</u>			
Number of Paid in Full Loans	1,397	1,789	3,186
Number of Repurchased Loans	0	0	0
Total Number of Loans Prepaid in Full	1,397	1,789	3,186
Paid in Full Balance	232,482,987.66	265,555,416.50	498,038,404.16
Repurchased Loans Balance	0.00	0.00	0.00
Curtailments Amount	1,163,012.79	882,150.40	2,045,163.19
Total Prepayment Amount	233,646,000.45	266,437,566.90	500,083,567.35

#### **Total Prepayments by Groups**



#### **Total Prepayments**



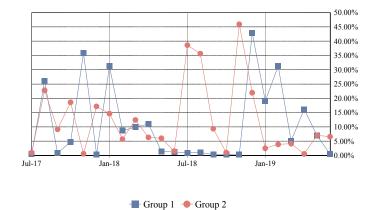


June 25, 2019 Distribution

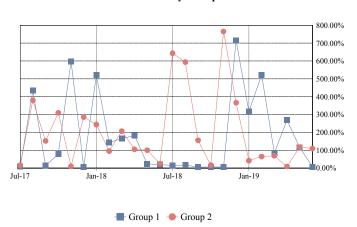


PREPAYMENTS RATES			
	Group 2	Group 1	Total
SMM	0.57%	0.04%	0.36%
3 Months Avg SMM	0.41%	0.70%	0.52%
12 Months Avg SMM	1.48%	1.02%	1.31%
Avg SMM Since Cut-off	1.66%	1.95%	1.79%
CPR	6.58%	0.45%	4.21%
3 Months Avg CPR	4.77%	8.08%	6.09%
12 Months Avg CPR	16.42%	11.61%	14.59%
Avg CPR Since Cut-off	18.19%	21.04%	19.49%
PSA	109.72%	7.44%	70.14%
3 Months Avg PSA Approximation	79.52%	134.63%	101.58%
12 Months Avg PSA Approximation	273.73%	193.58%	243.20%
Avg PSA Since Cut-off Approximation	328.55%	380.00%	352.07%

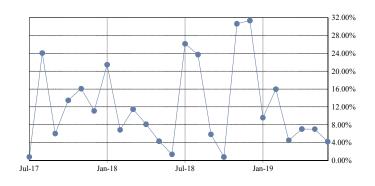




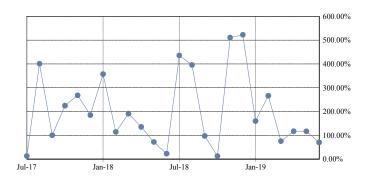
#### **PSA** by Groups



#### **Total CPR**



#### Total PSA



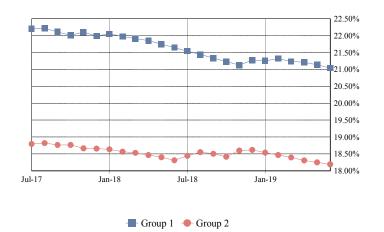
#### **Mortgage Pass-Through Certificates**

June 25, 2019 Distribution

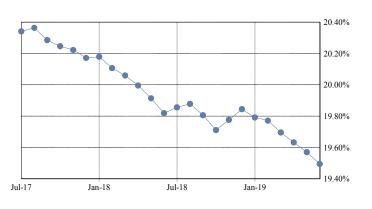
Mortgage Pass-I nrough Certificate

## Deutsche Bank

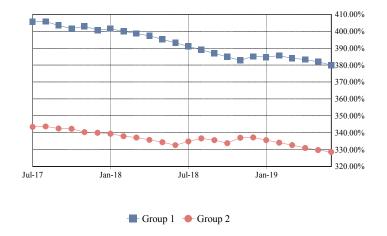
#### **CPR Avg since Cut-Off by Groups**



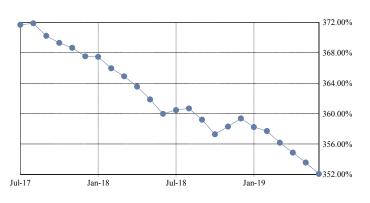
**Total CPR Avg since Cut-Off** 



#### **PSA Avg since Cut-Off by Groups**



**Total PSA Avg since Cut-Off** 



#### PREPAYMENT CALCULATION METHODOLOGY

Single Monthly Mortality (SMM): (Voluntary partial and full prepayments + Repurchases + Liquidation Balance)/(Beg Principal Balance - Sched Principal)

Conditional Prepayment Rate (CPR): 1-((1-SMM)^12)

PSA Standard Prepayment Model: CPR/(0.20%\*min(30,WAS))

Average SMM over period between nth month and mth month (AvgSMMn,m): 1 - [(1-SMMn)\*(1-SMMn+1)\*...\*(1-SMMm)]^(1/months in period n,m)

Average CPR over period between the nth month and mth month (AvgCPRn,m): 1-((1-AvgSMMn,m)^12)

Average PSA Approximation over period between the nth month and mth month: AvgCPRn,m/(0.20%\*Avg WASn,m))

Average WASn,m: (min(30,WASn)+min(30,WASn+1)+...+min(30,WASm)/(number of months in the period n,m)

Weighted Average Seasoning (WAS)

Note: Prepayment rates are calculated since deal issue date and include partial and full voluntary prepayments and repurchases.

Dates correspond to distribution dates.

**Mortgage Pass-Through Certificates** 

June 25, 2019 Distribution

# Deutsche Bank

#### **Prepayment Detail Report**

Loan Number & Loan Group	Loan Status	Original Principal Balance	Prepayment Amount	Prepayment Date	Current Note Rate	State & LTV at Origination	Type Prepayment & Original Term	First Payment Date
100006837 2		56,250.00	41,659.78	01-May-2019	6.125%	TN - 75.00%	Paid Off - 360	01-Nov-200



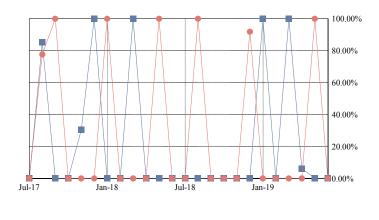
June 25, 2019 Distribution

# Deutsche Bank

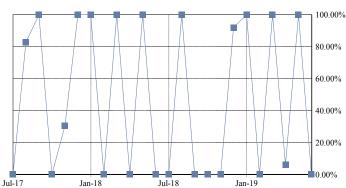
#### **Realized Loss Report**

COLLATERAL REALIZED LOSSES			
	Group 2	Group 1	Total
<u>Current</u>			
Number of Loans Liquidated	0	0	0
Collateral Principal Realized Loss/(Gain) Amount	0.00	0.00	0.00
Collateral Interest Realized Loss/(Gain) Amount	473.49	0.00	473.49
Net Liquidation Proceeds	(473.49)	0.00	(473.49)
Subsequent Recoveries	0.00	0.00	0.00
<u>Cumulative</u>			
Number of Loans Liquidated	193	178	371
Collateral Realized Loss/(Gain) Amount	12,676,981.63	9,217,471.68	21,894,453.31
Net Liquidation Proceeds	2,117,364.33	5,463,813.71	7,581,178.04
Cumulative Subsequent Recoveries	98,462.50	71,653.87	170,116.37

#### **Collateral Loss Severity Approximation by Groups**



#### **Collateral Loss Severity Approximation**

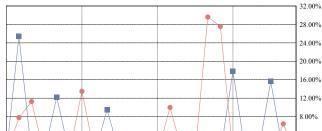




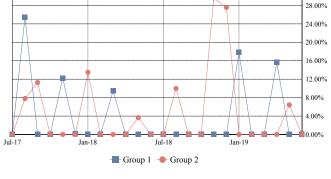
June 25, 2019 Distribution

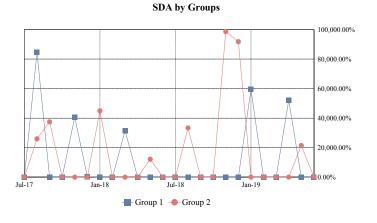


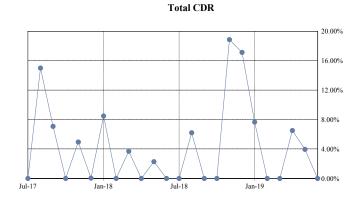
	Group 2	Group 1	Total
MDR	0.00%	0.00%	0.00%
3 Months Avg MDR	0.18%	0.47%	0.30%
12 Months Avg MDR	0.59%	0.25%	0.459
Avg MDR Since Cut-off	0.29%	0.30%	0.309
CDR	0.00%	0.00%	0.009
3 Months Avg CDR	2.19%	5.51%	3.529
12 Months Avg CDR	6.80%	3.01%	5.269
Avg CDR Since Cut-off	3.46%	3.55%	3.509
SDA	0.00%	0.00%	0.00
3 Months Avg SDA Approximation	7,295.48%	18,382.08%	11,732.29
12 Months Avg SDA Approximation	22,677.41%	10,036.95%	17,532.96
Avg SDA Since Cut-off Approximation	1,270.54%	1,302.32%	1,286.639
Loss Severity Approximation for Current Period	0.00%	0.00%	0.00
3 Months Avg Loss Severity Approximation	100.00%	6.27%	41.15
12 Months Avg Loss Severity Approximation	54.72%	62.66%	56.60
Avg Loss Severity Approximation Since Cut-off	44.77%	33.79%	39.309

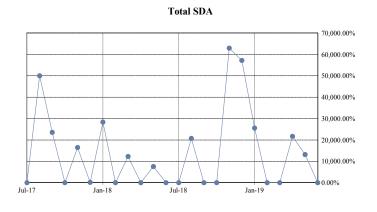


CDR by Groups







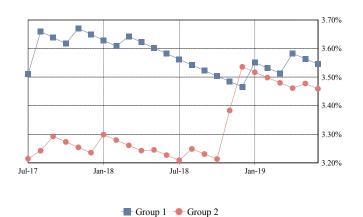


#### **Mortgage Pass-Through Certificates**

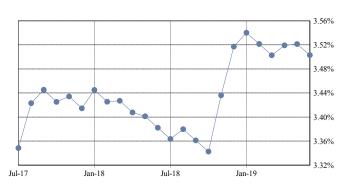
### June 25, 2019 Distribution

# Deutsche Bank

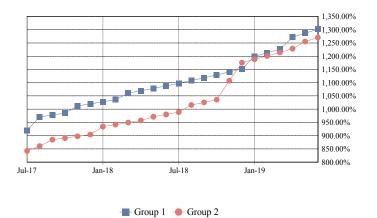
#### CDR Avg since Cut-Off by Groups



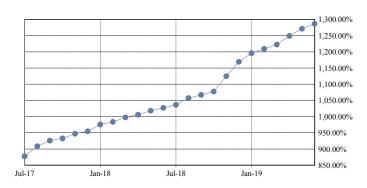
**Total CDR Avg since Cut-Off** 



#### SDA Avg since Cut-Off by Groups



**Total SDA Avg since Cut-Off** 



#### COLLATERAL REALIZED LOSS CALCULATION METHODOLOGY

Monthly Default Rate (MDR): (Beg Principal Balance of Liquidated Loans)/(Total Beg Principal Balance)

Conditional Default Rate (CDR): 1-((1-MDR)^12)

 $SDA \ Standard \ Default \ Assumption: \ CDR/IF(WAS<61,MIN(30,WAS)*0.02\%,MAX(0.03\%,MIN(30,WAS)*0.02\%-0.0095\%*(WAS-60)))$ 

 $\label{eq:continuous_equation} Average \ MDR \ over period \ between \ nth \ month \ and \ mth \ month \ (AvgMDRn,m): \\ [(1-MDRn)^*(1-MDRn+1)^*...*(1-MDRm)]^{(1/months \ in \ period \ n,m)}$ 

Average CDR over period between the nth month and mth month (AvgCDRn,m): 1-((1-AvgMDRn,m)^12)

Average SDA Approximation over period between the nth month and mth month:

 $AvgCDRn,m/IF\\ (Avg\ WASn,m < 61,MIN(30,Avg\ WASn,m) * 0.02\%,MAX(0.03\%,MIN(30,Avg\ WASn,m) * 0.02\% - 0.0095\% * (Avg\ WASn,m - 60)))\\ (Avg\ WASn,m < 61,MIN(30,Avg\ WASn,m) * 0.02\% - 0.0095\% * (Avg\ WASn,m - 60)))\\ (Avg\ WASn,m < 61,MIN(30,Avg\ WASn,m) * 0.02\% - 0.0095\% * (Avg\ WASn,m - 60)))\\ (Avg\ WASn,m < 61,MIN(30,Avg\ WASn,m) * 0.02\% - 0.0095\% * (Avg\ WASn,m - 60)))\\ (Avg\ WASn,m < 61,MIN(30,Avg\ WASn,m) * 0.02\% - 0.0095\% * (Avg\ WASn,m - 60)))\\ (Avg\ WASn,m < 61,MIN(30,Avg\ WASn,m) * 0.02\% - 0.0095\% * (Avg\ WASn,m - 60)))\\ (Avg\ WASn,m < 61,MIN(30,Avg\ WASn,m) * 0.02\% - 0.0095\% * (Avg\ WASn,m - 60)))\\ (Avg\ WASn,m < 61,MIN(30,Avg\ WASn,m) * 0.02\% - 0.0095\% * (Avg\ WASn,m - 60)))\\ (Avg\ WASn,m < 61,MIN(30,Avg\ WASn,m) * 0.02\% - 0.0095\% * (Avg\ WASn,m - 60)))\\ (Avg\ WASn,m < 61,MIN(30,Avg\ WASn,m) * 0.02\% - 0.0095\% * (Avg\ WASn,m - 60)))\\ (Avg\ WASn,m < 61,MIN(30,Avg\ WASn,m) * 0.02\% - 0.0095\% * (Avg\ WASn,m - 60)))\\ (Avg\ WASn,m < 61,MIN(30,Avg\ WASn,m) * 0.02\% - 0.0095\% * (Avg\ WASn,m - 60)))\\ (Avg\ WASn,m < 61,MIN(30,Avg\ WASn,m) * 0.02\% - 0.0095\% * (Avg\ WASn,m - 60)))\\ (Avg\ WASn,m < 61,MIN(30,Avg\ WASn,m) * 0.02\% - 0.0095\% * (Avg\ WASn,m - 60)))\\ (Avg\ WASn,m < 61,MIN(30,Avg\ WASn,m) * 0.02\% - 0.0095\% * (Avg\ WASn,m - 60)))\\ (Avg\ WASn,m < 61,MIN(30,Avg\ WASn,m - 60))\\ (Avg\ WASn,m < 61,MIN(30,Av$ 

Average WASn,m: (WASn + WASn+1 +...+ WASm )/(number of months in the period n,m)

Loss Severity Approximation for current period: sum(Realized Loss Amount)/sum(Beg Principal Balance of Liquidated Loans)

Average Loss Severity Approximation over period between nth month and mth month: Avg(Loss Severityn,m)

Note: Default rates are calculated since deal issue date and include realized gains and additional realized losses and gains from prior periods.

Dates correspond to distribution dates.

Charged off or Partially Charged off Loans assumed to have a minimum 100% Loss Severity Percentage.

**Mortgage Pass-Through Certificates** 

June 25, 2019 Distribution

# Deutsche Bank

#### **Realized Loss Detail Report**

Loan Number		Current	State &		Prior	Realized	
&	Loan	Note	LTV at	Original	Principal	Loss/(Gain)	Realized
Loan Group	Status	Rate	Origination	Term	Balance	Revision	Loss/(Gain)
7100128581 2			FL - 95.00%	360		Revision	129.84
7100163695 2			NY - 75.00%	360		Revision	343.65

TOTAL 473.49

The Servicer has not made a final recovery determination on any loan noted above as a "Modification" and such realized loss is based on principal forbearance in connection with a loan modification.



June 25, 2019 Distribution



#### Triggers and Adj. Cert. Report

TRIGGER EVENTS	
	Group 2 Group 1 Total
Is the StepDown Event in effect?	Yes
Applicable % for stepdown	39.500000%
Is the Trigger Event in effect?	No
Delinquency Trigger ( (A) > (B) )	No
(A) Delinquency % ((i)/(ii))	17.831245%
(i) 60+ Day Delinquency 3 Month Rolling Avg Balance	2,438,152.99
(ii) Stated Principal Balance	13,673,487.52
(B) Applicable % times CE % ( (iii) * (iv) )	33.871949%
(iii) Credit Enhancement %	84.679871%
(iv) Applicable Credit Enhancement %	40.000000%
Loss Trigger $((A) > (B))$	No
(A) Trigger Event Loss % ((i)/(ii))	3.805067%
(i) Cumulative Realized Loss	21,894,453.31
(ii) Cutoff Date Pool Balance	575,402,506.26
(B) Applicable Loss %	
Is the Sequential Trigger Event in effect?	NA
Is the Servicer Termination Trigger Event in effect?	NA
Loss Servicer Termination Trigger Event ( (A) > (B) )	NA
(A) Realized Loss %	
(B) Threshold % (for loss)	
DQ Servicer Termination Trigger Event ( (A) > (B) )	NA
(A) Delinquency % ((i)/(ii))	
(B) Applicable % (for delinquency)	
HAMP Incentive Amount Reporting -	
Current Bonus Incentive Amount	
Cumulative Bonus Incentive Amount	

# ADJUSTABLE RATE CERTIFICATE INFORMATION SPACE INTENTIONALLY LEFT BLANK

**Mortgage Pass-Through Certificates** 

June 25, 2019 Distribution



p 2 Gro	oup 1 Total
0.00	0.00
	0.00
	0.00
	0.00
	2.429750%
	05/23/2019
	2.404380%
	06/21/2019

**Mortgage Pass-Through Certificates** 

June 25, 2019 Distribution



#### **Additional Certificate Report**

ADDITIONAL C	CERTIFICATE REPORT					
CLASS	NET WAC Shortfall Prior (1)	Int on Prior SF (2)	Curr NET WAC SF (3)	Total NET WAC SF (1+2+3)	NET WAC Shortfall Paid	NET WAC Shortfall UnPaid
A-1	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.0
A-2	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.0
A-3	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.0
	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.0
M-1 M-2		\$0.00				\$0.0
	\$0.00		\$0.00	\$0.00	\$0.00	
M-3	\$149.63	\$0.63	\$0.00	\$150.26	\$0.00	\$150.
3-1	\$24,082.97	\$138.23	\$72.31	\$24,293.51	\$0.00	\$24,293.
3-2 3-3	\$41,357.81 \$15,785.96	\$259.10 \$98.90	\$131.59 \$123.17	\$41,748.50 \$16,008.03	\$0.00 \$0.00	\$41,748. \$16,008.

**Mortgage Pass-Through Certificates** 

June 25, 2019 Distribution

Deutsche	Bank	/	
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ADDITIONAL C	ERTIFICATE REPORT	,		
	Next PTR			
CLASS				
A-1 A-2 A-3 M-1 M-2 M-3 B-1 B-2 B-3 X UT-R	3.324300% 2.804300% 3.444300% 3.424300% 4.954300% 5.404300% 7.354300% 8.029300% 8.029300% 0.000000% 0.000000%			

**Mortgage Pass-Through Certificates** 

June 25, 2019 Distribution



#### **Modified Loan Detail**

Loan Number <u>&amp;</u> Loan Group	Modification		Post-Modification							
	Date	Current Type Desc. Code	Beginning Balance	Note Rate	Maturity Date	P&I Payment	Principal Foregiveness	Interest Foregiveness	Amount Capitalized	Amount Deferred
				SPACE INTE	NTIONALLY L	EFT BLANK				

- A Fast Track Modification
- B Modification Resulting In Capitalized Amount C Modification Resulting In Forgiven Principal Amount
- D Modification Resulting In Forgiven Interest Amount
- E Modification Resulting In Deferred Amount
- F Beginning Balance Modification
- G Note Rate Modification
- H Scheduled P&I Amount Modification
- I Maturity Date Modification

- J First Pay Adjustment Date Modification
- K First Rate Date Modification
- L First Rate Date Extended
- M First Periodic Rate Cap Modification
- N Subsequent Periodic Rate Cap Down Modification
- O Othe
- P Subsequent Periodic Rate Cap Up Modification
- Q Maximum Rate Modification

- R Minimum Rate Modification
- S First Principal Payment Date Modification
- T Interest Only Flag Modification
- U Interest Only Term Modification
- V Various Attributes Modified
- W Balloon Payment Modification
- X Balloon Payment Date Modification
- Y Loan Type Modification



June 25, 2019 Distribution



Loan Number & Loan Group	Modification		Pre-Modification							
	Date	Current Type Desc. Code	Beginning Balance	Note Rate	Maturity Date	P&I Payment	Principal Foregiveness	Interest Foregiveness	Amount Capitalized	Amount Deferred
			Å	SPACE INTE	ENTIONALLY L	EFT BLANK				

Mo	dific	ation	Code	Desc	cription
IVIC	Junic	auon	Couc	Desi	HOUGH

- A: Default modification ARM (non-prime loans)
- B: Default modification balloon (non-prime loans)
- C: Default modification fixed (non-prime loans)
- D: Default modification
- E: Legal modification

- F: ASF-program from past
- G: Default modification Interest Only
- H: Default modification Step rate (non-prime loans)
- I: Step reset
- J: MSP Ext (due date only extension-no capitalization)
- K: Step Rate Loss Mit Mod
- L: Modification ARM (loan remains ARM Loan)
- M: Modification Fannie Mae
- N: Prime Mod Fixed Rate
- O: Prime Mod Step Rate

Loan Number & Loan Group	Me	odification	Post-Modification							
	Date	Current Type Desc. Code	Beginning Balance	Note Rate	Maturity Date	P&I Payment	Principal Foregiveness	Interest Foregiveness	Amount Capitalized	Amount Deferred
			,	SPACE INTE	NTIONALLY L	EFT BLANK				

#### Modification Code Description

- A: Default modification ARM (non-prime loans)
- B: Default modification balloon (non-prime loans)
- C: Default modification fixed (non-prime loans)
- D: Default modification
- E: Legal modification

- F: ASF-program from past
- G: Default modification Interest Only
- H: Default modification Step rate (non-prime loans)
- I: Step reset
- J: MSP Ext (due date only extension-no capitalization)
- K: Step Rate Loss Mit Mod
- L: Modification ARM (loan remains ARM Loan)
- M: Modification Fannie Mae
- N: Prime Mod Fixed Rate
- O: Prime Mod Step Rate

**Mortgage Pass-Through Certificates** 

June 25, 2019 Distribution



#### **Other Related Information**

ADDITIONAL INFORMATION			
	Group 2	Group 1	Total
Current Scheduled Payments	79,428.08	50,199.98	129,628.06
Current Scheduled Payments 1 Month Prior	74,816.81	50,212.03	125,028.83
Current Scheduled Payments 2 Month Prior	76,957.61	49,554.64	126,512.25
Current Scheduled Payments 3 Month Prior	76,339.73	49,856.39	126,196.12
Current Scheduled Payments 4 Month Prior	77,767.32	52,497.20	130,264.52
Current Scheduled Payments 5 Month Prior	80,103.93	54,803.24	134,907.17
Current Scheduled Payments 6 Month Prior	100,920.60	55,376.74	156,297.33
Current Scheduled Payments 7 Month Prior	78,103.89	53,941.20	132,045.09
Current Scheduled Payments 8 Month Prior	82,097.87	54,359.55	136,457.42
Current Scheduled Payments 9 Month Prior	85,702.19	53,953.54	139,655.74
Current Scheduled Payments 10 Month Prior	83,211.17	53,892.79	137,103.96
Current Scheduled Payments 11 Month Prior	88,588.01	53,554.64	142,142.65

**Mortgage Pass-Through Certificates** 

June 25, 2019 Distribution



#### **Investor Supplemental Notice**

DEAL CALENDAR								
Rolling Payment Schedule								
July 25, 2019	October 25, 2019	January 27, 2020	April 27, 2020					
August 26, 2019	November 25, 2019	February 25, 2020	May 26, 2020					
September 25, 2019	December 26, 2019	March 25, 2020	June 25, 2020					