

F.T.A UCI 16

SANTANDER DE TITULIZACION, S.G.F.T, S.A.
CALLE JUAN IGNACIO LUCA DE TENA 9-11
28033 MADRID

santanderdetitulizacion@gruposantander.es

NAME OF THE FUND: **F.T.A UCI 16**

INFORMATION AT: QUARTER/SEMESTER: **September 16, 2022 - December 16, 2022** YEAR: **2022**

Acting on behalf of Santander de Titulización S.G.F.T., S.A. as General Manager: **JUAN CARLOS BERZAL VALERO - GENERAL MANAGER**
Signature:

I. DATA OF THE FUND

Constitution Date	October 18, 2006	Paying Agent	BANCO SANTANDER	
Disbursement Date	October 23, 2006	Negotiation Market	AIAF	
Final Date of Redemption	June 16, 2049	Ratings Agencies	FITCH RATINGS STANDARD & POORS	
Management Company	SANTANDER DE TITULIZACION, S.G.F.T., S.A.	Rating	Initial	Current
	UNIÓN DE CRÉDITOS INMOBILIARIOS, S.	CLASS A1	---	---
		CLASS A2	AAA/AAA	A / A +
		CLASS B	A/A-	BB - / BB -
		CLASS C	BBB/BBB	CCC / CCC+
		CLASS D	BB+/BB	CC / CCC
		CLASS E	CCC/CCC-	CC / D

II. SECURITIES ISSUED CHARGED TO THE FUND: SECURITISATION BONDS

CLASS PRIORITY ISIN CODE	NUM BONDS	NOMINAL			
			Initial	Current	%Act/In
CLASS A1 ESO338186002	4.300	Nominal per Bond	100.000,00	0,00	
		Total Nominal	430.000.000,00	0,00	0,00 %
CLASS A2 ESO338186010	12.476	Nominal per Bond	100.000,00	23.299,28	
		Total Nominal	1.247.600.000,00	290.681.817,28	23,30%
CLASS B ESO338186028	720	Nominal per Bond	100.000,00	100.000,00	
		Total Nominal	72.000.000,00	72.000.000,00	100,00 %
CLASS C ESO338186036	414	Nominal per Bond	100.000,00	100.000,00	
		Total Nominal	41.400.000,00	41.400.000,00	100,00 %
CLASS D ESO338186044	90	Nominal per Bond	100.000,00	100.000,00	
		Total Nominal	9.000.000,00	9.000.000,00	100,00 %
CLASS E ESO338186051	198	Nominal per Bond	100.000,00	72.727,28	
		Total Nominal	19.800.000,00	14.400.001,44	72,73%

REDEMPTION AND INTEREST OF THE BONDS					
Current			Next		
Payment Date of the Current Period December 16, 2022			Next Payment Date March 16, 2023		
	Redemption of the Bonds	Gross Interest	Interest Rate	Gross Interest Next Coupon	Net Interest Next Coupon
CLASS A1	---	---	---	---	---
CLASS A2	1.178,00 €	71,96 €	2,231%	129,95 €	105,26 €
CLASS B	0,00 €	331,90 €	2,381%	595,25 €	482,15 €
CLASS C	0,00 €	395,09 €	2,631%	657,75 €	532,78 €
CLASS D	0,00 €	824,81 €	4,331%	1.082,75 €	877,03 €
CLASS E	0,00 €	609,06 €	4,381%	796,55 €	645,21 €
Accrued amortisation due not payed	0,00 €				
Scheduled Amortisation	NO				

III. ASSET PURCHASED BY THE FUND: CREDIT RIGHTS

CREDIT RIGHTS	ISSUE DATE	CURRENT DATE
Number of CR's	16.195	6.500
CR's Outstanding to be amortised	1.800.000,05125 €	452.388.700,83 €
CR's Outstanding per Loan to be amortised	111.145,42 €	69.598,26 €
Interest Rate	4,24 %	2,34%

PREPAYMENT RATE	CURRENT SITUATION
Monthly Single Rate	11,13%
Average Monthly Single Rate	8,85%
Constant Prepayment Rate from Constitution	6,06%

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QUARTERLY BONDS PAYOUT REPORT

December 16th, 2022

BONDS. PRINCIPAL	
Previous Balance	442.178.546,72 €
Principal Amortised	14.696.728,00 €
Outstanding Balance	427.481.818,72 €
% of Initial Balance	23,49%
Principal accrued and unpaid	0,00 €

DATA	
Pool Cut-Off Date	2022/12/09
Payment Date	2022/12/16
Last Payment Date	2022/09/16
Number of Days (Act/360)	91
Reference Interest Rate (%)	2,081%
Next Payment Date	2023/03/16

INTEREST PAID	
CLASS A1	0,00 €
CLASS A2	897.772,96 €
CLASS B	238.968,00 €
CLASS C	163.567,26 €
CLASS D	74.232,90 €
CLASS E	120.593,88 €
Interest accrued and unpaid	0,00 €

RESIDUAL LIFE (YEARS)		
	INITIAL	16 December 2022
CLASS A1	0,70	0,00
CLASS A2	4,71	3,92
CLASS B	6,29	7,01
CLASS C	6,29	7,01
CLASS D	6,29	7,01
CLASS E	6,53	7,01

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QUARTERLY COLLATERAL REPORT

December 16th, 2022

PRINCIPAL	
Previous Balance	470.422.063,34 €
Principal Amortised	18.033.362,51 €
Outstanding Balance	452.388.700,83 €
Number of Credit Rights	6.500
LTV	0,43 €

PRINCIPAL BALANCE IN ARREARS					
	UP to 30 DAYS	30 to 60 DAYS	60 to 90 DAYS	90 to 180 DAYS	MORE THAN 180 DAYS
Principal Balance in Arrears	36.968,14 €	55.257,48 €	49.361,36 €	132.855,75 €	5.651.861,19 €
Interest accrued on Credit Rights in Arrears	13.273,95 €	24.397,00 €	21.184,64 €	52.855,47 €	3.476.165,51 €
Outstanding Balance	11.885.099,15 €	8.263.929,23 €	4.735.808,61 €	7.326.853,63 €	18.385.936,83 €
Number of Credit Rights	142	88	51	73	152
% of Outstanding Balance	2,63%	1,83%	1,05%	1,62%	4,06%

WRITE OFF	
Cumulative WRITE OFF as of previous balance	42.643.552,33 €
Difference in Actual Period	-3.336.628,25 €
Cumulative WRITE OFF up to date	39.306.924,08 €

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QUARTERLY COLLATERAL REPORT

December 16th, 2022

TRANSITORY PROPERTIES	
Last balance	0,00 €
Difference in Actual Period	20.117,20 €
Current balance	20.117,20 €
Number of transitory properties	1

NET LOSSES	
Last balance	158.499.183,75 €
Difference in Actual Period	998.293,24 €
Current balance	159.497.476,99 €

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QUARTERLY REPORT - ALLOCATION OF CASH

December 16th, 2022

TOTAL CASH RECEIVED END OF PERIOD	20.183.404,20 €
CASH RECEIVED - PRINCIPAL	
Amortisation of Credit Rights	15.514.514,98 €
CASH RECEIVED - INTEREST	
Interest received from Credit Rights	2.660.238,33 €
Interest received under GIC	24.921,61 €
INCOMES/EXPENSES OF TRANSITORY PROPERTIES	1.952.349,58 €
INCOMES/EXPENSES OF INSURED PROPERTIES	31.900,00 €
OTHERS	-520,30 €

TREASURY ACCOUNT STATEMENT	14.684.045,56 €
PRINCIPAL RESERVE FUND	
Previous Balance	14.400.000,00 €
Difference	0,00 €
Outstanding Balance	14.400.000,00 €
WITHHOLDING TAXES	284.045,56 €

TOTAL CASH PAID END OF PERIOD	20.183.404,20 €
ORDINARY EXPENSES	16.322,90 €
MANAGEMENT FEE	22.048,35 €
INTEREST ON CLASS A1 BONDS	0,00 €
INTEREST ON CLASS A2 BONDS	897.772,96 €
INTEREST ON CLASS B BONDS	238.968,00 €
INTEREST ON CLASS C BONDS	163.567,26 €
INTEREST ON CLASS D BONDS	74.232,90 €
REDEMPTION ON CLASS A2 BONDS	14.696.728,00 €
INTEREST ON CLASS E BONDS	120.593,88 €
REDEMPTION ON CLASS E BONDS	0,00 €
INTEREST ON SUBORDINATED LOAN UCB + SAN	0,00 €
REDEMPTION ON SUBORDINATED LOAN SANTANDER	0,00 €
REDEMPTION ON SUBORDINATED LOAN UCB	0,00 €
FIXED FEE	6.000,00 €
VARIABLE FEE	3.947.169,95 €
RESERVE FUND	0,00 €
REMAINDER	0,00 €

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CREDIT ENHANCEMENT AND SUBORDINATED LOAN

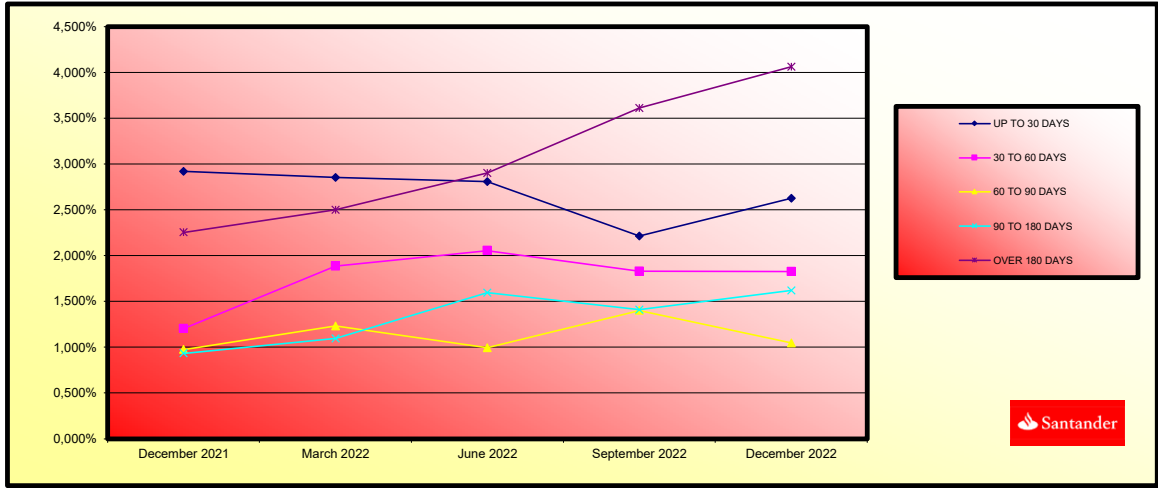
December 16th, 2022

CREDIT ENHANCEMENT		
CONCEPTS	INITIAL	December 16th, 2022
SUBORDINATED ISSUE	122.400.000,00 € (6,80%)	122.400.000,00 € (27,06%)
PRINCIPAL RESERVE FUND	19.800.000,00 € (1,10%)	14.400.000,00 € 3,18%

SUBORDINATED LOANS		
CONCEPTS	INITIAL	December 16th, 2022
SUBORDINATED LOAN SCH		
Total Outstanding Subordinated Loan	950.000,00 €	0,00 €
Interest Rate	5,900 %	---
SUBORDINATED LOAN UCB		
Total Outstanding Subordinated Loan	950.000,00 €	0,00 €
Interest Rate	5,900 %	---

LTV				
INTERVAL	OUTSTANDING	% OUTSTANDING	NUM.OF LOANS	% NUM OF LOANS
0,00 - 39,99	125.561.491,52 €	29,07%	2.054	41,65%
40,00 - 49,99	78.392.047,86 €	18,15%	810	16,43%
50,00 - 59,99	107.106.726,72 €	24,80%	1.069	21,68%
60,00 - 69,99	66.232.286,55 €	15,34%	591	11,99%
70,00 - 79,99	39.902.487,42 €	9,24%	311	6,31%
> 80,00	14.665.828,80 €	3,40%	96	1,95%
	431.860.868,87 €	100,00%	4.931	100,00%

ARREARS PERFORMANCE					
	December 2021	March 2022	June 2022	September 2022	December 2022
UP TO 30 DAYS	2,921%	2,854%	2,808%	2,215%	2,627%
30 TO 60 DAYS	1,204%	1,885%	2,055%	1,829%	1,827%
60 TO 90 DAYS	0,975%	1,231%	0,992%	1,403%	1,047%
90 TO 180 DAYS	0,933%	1,096%	1,595%	1,411%	1,620%
OVER 180 DAYS	2,254%	2,502%	2,903%	3,611%	4,064%



**FONDO DE TITULIZACIÓN DE ACTIVOS
UCI 16**

**TRIGGERS
DECEMBER 16th, 2022**

TRIGGERS BONDS	
1. IF 1.a) IS HIGHER THAN 1.b) THERE IS NO REDEMPTION OF CLASS B, CLASS C and CLASS D:	
1.a) CR'S IN ARREARS OVER 90 DAYS	65.019.714,54 €
1.b) 2% CR'S OUTSTANDING BALANCE	9.047.774,02 €
CLASSES B, C and D CANNOT BE REDEEMED	

TRIGGERS RESERVE FUND	
1. IF 1.a) IS LOWER THAN 1.b) THERE IS NO REDEMPTION OF RESERVE FUND:	
1.a) CR'S OUTSTANDING BALANCE	452.388.700,83 €
1.b) 10% CR'S INITIAL OUTSTANDING BALANCE	180.000.005,13 €
2. IF 2.a) IS LOWER THAN 2.b) THERE IS NO REDEMPTION OF RESERVE FUND:	
2.a) CR'S INTEREST RATE	2,34%
2.b) WEIGHTED AVERAGE RATE BONDS A1, A2, B, C, D y E + 0,40%	0,49%
3. IF THERE IS A PRINCIPAL DEFICIENCY, NO REDEMPTION OF RESERVE FUND SHOULD TAKE PLACE	NO

THE TRIGGERS HAVE NOT BEEN REACHED.

RESERVE FUND LEVELS		
CURRENT ARREARS PERCENTAGE < 0,75%	HIGHER OF 2,2% CR OUTSTANDING BALANCE 0,40% INITIAL BONDS BALANCE	NA
CURRENT ARREARS PERCENTAGE BETWEEN 0,75% AND 1,25%	HIGHER OF 2,2% CR OUTSTANDING BALANCE 0,70% INITIAL BONDS BALANCE	NA
CURRENT ARREARS PERCENTAGE > 1,25%	HIGHER OF 2,2% CR OUTSTANDING BALANCE 0,80% INITIAL BONDS BALANCE	14.400.000,00 €

**FONDO DE TITULIZACIÓN DE ACTIVOS
UCI 16**

**TRIGGERS
DECEMBER 16th, 2022**

INTEREST DEFERRAL FOR CLASS B, C and D	
IF 1.a) IS HIGHER THAN 1.b) CLASS B INTEREST ARE DEFERRED:	
1.a) CLASS A1 and A2 OUTSTANDING BALANCE	305.378.545,28 €
1.b) CR OUTSTANDING BALANCE (EXCLUDING > 18 MONTHS IN ARREARS) + AVAILABLE FUNDS REMAINING	409.254.211,10 € 33.408.291,99 €
IF 2.a) IS HIGHER THAN 2.b) CLASS C INTEREST ARE DEFERRED:	
2.a) CLASS A1, A2 and B OUTSTANDING BALANCE	377.378.545,28 €
2.b) CR OUTSTANDING BALANCE (EXCLUDING > 18 MONTHS IN ARREARS) + AVAILABLE FUNDS REMAINING	409.254.211,10 € 33.244.724,73 €
IF 3.a) IS HIGHER THAN 3.b) CLASS D INTEREST ARE DEFERRED:	
3.a) CLASS A1, A2, B and C OUTSTANDING BALANCE	418.778.545,28 €
3.b) CR OUTSTANDING BALANCE (EXCLUDING > 18 MONTHS IN ARREARS) + AVAILABLE FUNDS REMAINING	409.254.211,10 € 33.170.491,83 €

INTEREST ON CLASSES B, C AND D SHALL NOT BE DEFERRED.

LIQUIDITY REMAINING	
Current Balance	1.272.247,57 €

IF 1.a) IS HIGHER THAN 9,60% CR OUTSTANDING BALANCE, INTEREST ON CLASS B, C or D SHALL BE DEFERRED	NO
1.a) ACCRUED DEFAULT BALANCE WILL BE THE SUM OF i) + ii)	44.381.489,07 €
i). CR OUTSTANDING BALANCE WITH ARREARS HIGHER THAN 18 MONTHS	43.134.489,73 €
ii). CR OUTSTANDING BALANCE IN PROCESS OF EXECUTION OF GUARANTEES WITH ARREARS LOWER THAN 18 MONTHS	1.246.999,34 €
RATIO	2,47%

AGREEMENT	COUNTERPARTY	RATING AGENCY	MINIMUM RATING REQUIRED	CURRENT RATING
TREASURY ACCOUNT	BANCO SANTANDER	S&P FITCH	A-1 s/t F-1 s/t	A-1 s/t F-1 s/t*
PAYMENT AGENT	BANCO SANTANDER	S&P FITCH	A-1 s/t F-1 s/t	A-1 s/t F-1 s/t*

(*) Rating Deposit

COUNTERPARTY HAS THE MINIMUM RATING REQUIRED.

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DEFINITIONS

December 16th, 2022

POOL CUT-OFF DATE Means the date in which the Gestora will carry out the necessary calculations, on behalf of the Fund, for the distribution of the available funds at this date, according with the Order of Priority of Payments.

All the information regarding the Assets (Outstanding Balance of the Credit Rights, arrears' tables, transitory properties, stratification tables, etc.) are referred to this mentioned date.

WRITE OFF Those loans that at a given date are unpaid for a period equal or higher to 12 or 18 months (according to Prospectus) of arrears in due payments.

NET LOSSES Those loans which the Originator considers that will not recover (net of recoveries).

ACCRUED DEFAULT BALANCE Will be the balance of the loans which have outstanding instalmentes for longer than 18 months, or which have begun the process of execution of guarantees (if this process occurs previous to the 18 months from the first failure to pay), discounting the recovered amounts.

TRANSITORY PROPERTIES Those assets in the balance of the Fund as a consequence of a judicial or non-judicial process.

F.T.A.: UCI 16

Fecha	Saldo antes de Pago	Saldo Real	Vector de Prepago	Permanencia final de mes	Mortalidad Mensual	CPR	Mortalidad Mensual	CPR
Date	Outstanding before prepayment	Real outstanding	Prepayment vector	Remaining at the end of the month	Average single monthly	CPR	Monthly single mortality	CPR
			0,52%					8,85%
	1.800.000.000,00		100,00%	100,00%				
01-11-06	1.797.536.963,07	1.777.699.259,42	99,48%	98,90%	1,10%	12,47%	1,10%	12,47%
01-12-06	1.795.065.685,52	1.757.039.469,70	98,96%	97,88%	1,06%	12,06%	1,03%	11,64%
01-01-07	1.792.585.676,60	1.732.965.597,00	98,45%	96,67%	1,12%	12,65%	1,23%	13,84%
01-02-07	1.790.096.905,48	1.714.233.119,07	97,94%	95,76%	1,08%	12,18%	0,94%	10,75%
01-03-07	1.787.599.341,18	1.693.175.506,25	97,43%	94,72%	1,08%	12,21%	1,09%	12,33%
01-04-07	1.785.092.952,65	1.669.557.506,70	96,92%	93,53%	1,11%	12,53%	1,26%	14,08%
01-05-07	1.782.577.708,70	1.644.647.424,39	96,42%	92,26%	1,14%	12,90%	1,35%	15,08%
01-06-07	1.780.053.578,06	1.619.770.876,00	95,92%	91,00%	1,17%	13,20%	1,37%	15,29%
01-07-07	1.777.520.529,31	1.597.030.852,52	95,42%	89,85%	1,18%	13,30%	1,26%	14,15%
01-08-07	1.774.978.530,95	1.573.264.177,93	94,93%	88,64%	1,20%	13,48%	1,35%	15,02%
01-09-07	1.772.427.551,37	1.557.247.781,41	94,43%	87,86%	1,17%	13,17%	0,88%	10,02%
01-10-07	1.769.867.558,82	1.542.130.741,40	93,94%	87,13%	1,14%	12,87%	0,83%	9,49%
01-11-07	1.767.298.521,48	1.526.259.522,92	93,45%	86,36%	1,12%	12,66%	0,89%	10,12%
01-12-07	1.764.720.407,36	1.513.748.046,10	92,97%	85,78%	1,09%	12,32%	0,67%	7,80%
01-01-08	1.762.133.184,42	1.500.412.336,34	92,49%	85,15%	1,07%	12,07%	0,74%	8,48%
01-02-08	1.759.536.820,47	1.490.635.006,66	92,01%	84,72%	1,03%	11,70%	0,51%	5,89%
01-03-08	1.756.931.283,21	1.479.372.093,27	91,53%	84,20%	1,01%	11,43%	0,61%	7,06%
01-04-08	1.754.316.540,22	1.467.484.114,61	91,05%	83,65%	0,99%	11,22%	0,66%	7,59%
01-05-08	1.751.692.558,99	1.457.076.346,68	90,58%	83,18%	0,96%	10,98%	0,56%	6,52%
01-06-08	1.749.059.306,88	1.444.195.638,00	90,11%	82,57%	0,95%	10,86%	0,73%	8,47%
01-07-08	1.746.416.751,13	1.437.175.797,87	89,64%	82,29%	0,92%	10,54%	0,34%	3,95%
01-08-08	1.743.764.858,86	1.428.177.167,06	89,18%	81,90%	0,90%	10,32%	0,48%	5,55%
01-09-08	1.741.103.597,09	1.422.246.882,23	88,71%	81,69%	0,88%	10,02%	0,26%	3,11%
01-10-08	1.738.432.932,73	1.416.945.713,59	88,25%	81,51%	0,85%	9,72%	0,22%	2,60%
01-11-08	1.735.752.832,53	1.409.587.568,59	87,79%	81,21%	0,83%	9,51%	0,37%	4,30%
01-12-08	1.733.063.263,18	1.398.661.902,48	87,34%	80,70%	0,82%	9,42%	0,62%	7,20%
01-01-09	1.730.364.191,21	1.390.828.713,27	86,88%	80,38%	0,81%	9,25%	0,40%	4,75%
01-02-09	1.727.655.583,05	1.384.826.013,16	86,43%	80,16%	0,79%	9,04%	0,28%	3,26%
01-03-09	1.724.937.405,01	1.379.419.487,16	85,98%	79,97%	0,77%	8,83%	0,23%	2,77%
01-04-09	1.722.209.623,27	1.369.775.747,92	85,54%	79,54%	0,76%	8,75%	0,54%	6,31%
01-05-09	1.719.472.203,90	1.362.063.427,51	85,09%	79,21%	0,75%	8,63%	0,40%	4,75%
01-06-09	1.716.725.112,86	1.352.710.697,56	84,65%	78,80%	0,74%	8,55%	0,53%	6,15%
01-07-09	1.713.969.126,04	1.339.913.528,64	84,21%	78,18%	0,74%	8,56%	0,79%	9,04%
01-08-09	1.711.203.401,95	1.327.695.598,99	83,77%	77,59%	0,74%	8,57%	0,75%	8,66%
01-09-09	1.708.427.906,17	1.320.161.213,28	83,34%	77,27%	0,73%	8,46%	0,41%	4,76%
01-10-09	1.705.642.604,19	1.308.815.507,86	82,90%	76,73%	0,73%	8,45%	0,70%	8,06%
01-11-09	1.702.847.461,35	1.300.273.065,81	82,47%	76,36%	0,73%	8,38%	0,49%	5,72%
01-12-09	1.700.042.442,89	1.289.324.377,33	82,05%	75,84%	0,73%	8,36%	0,68%	7,84%
01-01-10	1.697.227.513,92	1.278.664.026,17	81,62%	75,34%	0,72%	8,34%	0,66%	7,66%
01-02-10	1.694.402.639,41	1.271.395.856,83	81,20%	75,04%	0,72%	8,26%	0,40%	4,73%
01-03-10	1.691.567.784,24	1.264.686.031,25	80,77%	74,76%	0,71%	8,16%	0,36%	4,25%
01-04-10	1.688.722.913,14	1.248.843.961,75	80,35%	73,95%	0,72%	8,26%	1,09%	12,28%
01-05-10	1.685.867.990,71	1.236.380.323,19	79,94%	73,34%	0,72%	8,29%	0,83%	9,52%
01-06-10	1.683.020.981,46	1.228.541.388,81	79,52%	73,00%	0,71%	8,23%	0,46%	5,44%
01-07-10	1.680.127.849,73	1.209.189.765,06	79,11%	71,97%	0,73%	8,40%	1,41%	15,63%
01-08-10	1.677.242.559,77	1.202.832.512,28	78,70%	71,71%	0,72%	8,31%	0,35%	4,17%
01-09-10	1.674.347.075,68	1.187.058.995,86	78,29%	70,90%	0,73%	8,41%	1,14%	12,86%
01-10-10	1.671.441.361,45	1.175.020.793,62	77,88%	70,30%	0,73%	8,43%	0,84%	9,65%
01-11-10	1.668.525.380,94	1.165.504.933,13	77,48%	69,85%	0,73%	8,41%	0,64%	7,38%
01-12-10	1.665.599.097,87	1.153.257.462,21	77,08%	69,24%	0,73%	8,44%	0,88%	10,03%
01-01-11	1.662.662.475,83	1.143.706.008,51	76,68%	68,79%	0,73%	8,43%	0,65%	7,56%
01-02-11	1.659.715.478,31	1.136.550.672,31	76,28%	68,48%	0,73%	8,37%	0,45%	5,26%
01-03-11	1.656.758.068,65	1.123.157.897,90	75,88%	67,79%	0,73%	8,42%	1,00%	11,38%
01-04-11	1.653.790.210,05	1.115.169.307,36	75,49%	67,43%	0,73%	8,38%	0,53%	6,21%
01-05-11	1.650.811.865,60	1.117.682.492,96	75,09%	67,71%	0,71%	8,16%	-0,41%	-4,98%
01-06-11	1.647.822.998,25	1.098.625.671,00	74,70%	66,67%	0,72%	8,32%	1,53%	16,86%
01-07-11	1.644.823.570,82	1.092.863.228,82	74,32%	66,44%	0,71%	8,25%	0,34%	4,04%
01-08-11	1.641.813.546,00	1.087.711.635,38	73,93%	66,25%	0,71%	8,17%	0,29%	3,41%
01-09-11	1.638.792.886,35	1.080.141.995,53	73,55%	65,91%	0,70%	8,13%	0,51%	5,98%
01-10-11	1.635.761.554,30	1.077.632.058,10	73,16%	65,88%	0,69%	8,01%	0,05%	0,57%
01-11-11	1.632.719.512,14	1.070.123.160,18	72,78%	65,54%	0,69%	7,97%	0,51%	5,97%
01-12-11	1.629.666.722,03	1.061.577.410,97	72,41%	65,14%	0,69%	7,96%	0,61%	7,11%
01-01-12	1.626.603.145,98	1.056.652.464,50	72,03%	64,96%	0,68%	7,89%	0,28%	3,27%
01-02-12	1.623.528.745,91	1.049.323.460,76	71,66%	64,63%	0,68%	7,86%	0,51%	5,90%
01-03-12	1.620.443.483,56	1.041.843.583,13	71,28%	64,29%	0,68%	7,83%	0,52%	6,11%
01-04-12	1.617.347.320,55	1.040.836.102,90	70,91%	64,35%	0,67%	7,70%	-0,09%	-1,14%
01-05-12	1.614.240.218,38	1.034.132.758,93	70,55%	64,06%	0,66%	7,67%	0,45%	5,30%
01-06-12	1.611.122.138,39	1.027.232.201,08	70,18%	63,76%	0,66%	7,64%	0,48%	5,55%
01-07-12	1.607.993.041,79	1.024.163.852,71	69,81%	63,69%	0,65%	7,55%	0,10%	1,25%
01-08-12	1.604.852.889,67	1.014.506.366,22	69,45%	63,21%	0,65%	7,56%	0,75%	8,63%
01-09-12	1.601.701.642,96	1.012.132.494,64	69,09%	63,19%	0,64%	7,46%	0,04%	0,45%
01-10-12	1.598.539.262,46	1.007.343.000,13	68,73%	63,02%	0,64%	7,41%	0,28%	3,27%
01-11-12	1.595.365.708,84	1.000.784.251,93	68,38%	62,73%	0,64%	7,38%	0,45%	5,31%
01-12-12	1.592.180.942,62	997.376.460,22	68,02%	62,64%	0,63%	7,30%	0,14%	1,68%
01-01-13	1.588.989.928,60	991.793.463,56	67,67%	62,42%	0,63%	7,26%	0,36%	4,24%
01-02-13	1.585.787.640,29	988.065.886,94	67,32%	62,31%	0,62%	7,20%	0,17%	2,08%
01-03-13	1.582.574.037,86	984.452.936,68	66,97%	62,21%	0,61%	7,13%	0,16%	1,94%
01-04-13	1.579.349.081,33	979.413.543,88	66,62%	62,01%	0,61%	7,09%	0,31%	3,64%
01-05-13	1.576.112.730,59	972.937.209,19	66,27%	61,73%	0,61%	7,07%	0,46%	5,35%
01-06-13	1.572.864.945,37	970.178.180,52	65,93%	61,68%	0,60%	6,99%	0,08%	0,93%
01-07-13	1.569.619.119,57	964.586.862,10	65,59%	61,45%	0,60%	6,96%	0,37%	4,36%
01-08-13	1.566.361.825,83	959.934.619,17	65,24%	61,28%	0,60%	6,91%	0,28%	3,25%
01-09-13	1.563.093.023,62	956.865.212,62	64,91%	61,22%	0,59%	6,85%	0,11%	1,33%
01-10-13	1.559.812.672,28	950.578.693,78	64,57%	60,94%	0,59%	6,83%	0,45%	5,25%
01-11-13	1.556.520.731,01	943.779.413,05	64,23%	60,63%	0,59%	6,82%	0,51%	5,90%
01-12-13	1.553.217.158,86	939.297.945,30	63,90%	60,47%	0,58%	6,78%	0,26%	3,11%
01-01-14	1.549.901.914,74	932.390.084,82	63,57%	60,16%	0,58%	6,77%	0,52%	6,10%
01-02-14	1.546.574.957,41	925.862.058,74	63,24%	59,87%	0,58%	6,76%	0,49%	5,68%
01-03-14	1.543.236.245,48	919.570.899,07	62,91%	59,59%	0,58%	6,74%	0,46%	5,44%
01-04-14	1.539.885.737,42	910.936.400,50	62,58%	59,16%	0,58%	6,76%	0,72%	8,34%
01-05-14	1.536.523.391,56	904.163.710,22	62,26%	58,84%	0,58%	6,75%	0,53%	6,14%
01-06-14	1.533.149.166,07	899.420.137,32	61,93%	58,66%	0,58%	6,72%	0,31%	3,61%
01-07-14	1.529.767.320,56	890.092.174,91	61,61%	58,18%	0,58%	6,75%	0,82%	9,39%
01-08-14	1.526.373.526,52	883.939.028,12	61,29%	57,91%	0,58%	6,74%	0,47%	5,50%

01-12-14	1.512.678.018,57	862.231.349,40	60,03%	57,00%	0,57%	6,65%	0,23%	2,76%
01-01-15	1.509.225.107,78	854.950.231,91	59,72%	56,65%	0,57%	6,66%	0,62%	7,16%
01-02-15	1.505.759.997,38	850.236.061,70	59,41%	56,47%	0,57%	6,63%	0,32%	3,80%
01-03-15	1.502.282.644,28	845.890.396,47	59,10%	56,31%	0,57%	6,60%	0,28%	3,32%
01-04-15	1.498.793.005,21	840.300.191,42	58,79%	56,07%	0,57%	6,58%	0,43%	5,03%
01-05-15	1.495.291.036,77	835.864.102,65	58,49%	55,90%	0,56%	6,55%	0,29%	3,48%
01-06-15	1.491.776.695,39	831.663.560,25	58,18%	55,75%	0,56%	6,52%	0,27%	3,17%
01-07-15	1.488.253.014,95	824.722.224,33	57,88%	55,42%	0,56%	6,52%	0,60%	6,97%
01-08-15	1.484.716.884,85	819.336.830,57	57,58%	55,18%	0,56%	6,51%	0,42%	4,88%
01-09-15	1.481.168.261,13	814.017.462,24	57,28%	54,96%	0,56%	6,49%	0,41%	4,82%
01-10-15	1.477.607.099,62	809.422.168,69	56,98%	54,78%	0,56%	6,47%	0,32%	3,83%
01-11-15	1.474.033.356,05	805.147.258,33	56,69%	54,62%	0,55%	6,44%	0,29%	3,39%
01-12-15	1.470.446.985,95	799.975.426,97	56,39%	54,40%	0,55%	6,43%	0,40%	4,70%
01-01-16	1.466.857.616,88	794.987.504,50	56,10%	54,20%	0,55%	6,41%	0,38%	4,47%
01-02-16	1.463.255.566,07	789.286.978,37	55,81%	53,94%	0,55%	6,40%	0,37%	5,53%
01-03-16	1.459.640.788,72	784.146.465,20	55,52%	53,72%	0,55%	6,39%	0,41%	4,76%
01-04-16	1.456.013.239,87	777.989.021,12	55,23%	53,43%	0,55%	6,38%	0,54%	6,27%
01-05-16	1.452.372.874,39	771.935.839,49	54,94%	53,15%	0,55%	6,38%	0,53%	6,17%
01-06-16	1.448.719.647,00	767.340.361,65	54,66%	52,97%	0,55%	6,36%	0,34%	4,06%
01-07-16	1.445.111.439,81	761.375.647,66	54,37%	52,69%	0,55%	6,36%	0,53%	6,17%
01-08-16	1.441.490.484,32	757.251.879,37	54,09%	52,53%	0,54%	6,34%	0,29%	3,45%
01-09-16	1.437.856.735,50	753.733.209,99	53,81%	52,42%	0,54%	6,31%	0,21%	2,53%
01-10-16	1.434.210.148,15	748.889.945,52	53,53%	52,22%	0,54%	6,29%	0,39%	4,58%
01-11-16	1.430.550.676,91	744.160.293,90	53,25%	52,02%	0,54%	6,28%	0,38%	4,44%
01-12-16	1.426.878.276,25	740.056.485,67	52,98%	51,87%	0,54%	6,25%	0,30%	3,49%
01-01-17	1.423.200.587,27	735.323.017,52	52,70%	51,67%	0,54%	6,24%	0,38%	4,50%
01-02-17	1.419.509.904,50	730.281.059,63	52,43%	51,45%	0,53%	6,23%	0,43%	5,01%
01-03-17	1.415.806.182,05	725.593.324,60	52,15%	51,25%	0,53%	6,22%	0,38%	4,49%
01-04-17	1.412.089.373,83	725.513.017,88	51,88%	51,38%	0,53%	6,15%	-0,25%	-3,07%
01-05-17	1.408.359.433,63	716.308.257,57	51,61%	50,86%	0,53%	6,19%	1,01%	11,44%
01-06-17	1.404.616.315,03	711.898.221,76	51,35%	50,68%	0,53%	6,17%	0,35%	4,13%
01-07-17	1.400.868.619,93	708.016.371,92	51,08%	50,54%	0,53%	6,15%	0,28%	3,30%
01-08-17	1.397.107.683,71	702.743.375,67	50,81%	50,30%	0,53%	6,15%	0,48%	5,58%
01-09-17	1.393.333.459,58	698.186.836,93	50,55%	50,11%	0,53%	6,13%	0,38%	4,46%
01-10-17	1.389.545.900,60	694.860.827,31	50,29%	50,01%	0,52%	6,11%	0,21%	2,43%
01-11-17	1.385.744.959,66	690.689.192,70	50,03%	49,84%	0,52%	6,09%	0,33%	3,86%
01-12-17	1.381.930.589,48	687.837.035,15	49,77%	49,77%	0,52%	6,06%	0,14%	1,64%
01-01-18	1.378.115.907,51	683.273.297,22	49,51%	49,58%	0,52%	6,05%	0,39%	4,56%
01-02-18	1.374.287.747,76	679.912.268,59	49,25%	49,47%	0,52%	6,02%	0,21%	2,55%
01-03-18	1.370.446.062,58	677.108.413,23	49,00%	49,41%	0,51%	5,99%	0,13%	1,59%
01-04-18	1.366.590.804,21	671.923.095,47	48,74%	49,17%	0,51%	5,99%	0,49%	5,68%
01-05-18	1.362.721.924,69	667.013.668,96	48,49%	48,95%	0,51%	5,98%	0,45%	5,25%
01-06-18	1.358.839.375,88	663.409.724,06	48,24%	48,82%	0,51%	5,96%	0,26%	3,03%
01-07-18	1.354.965.111,33	658.087.274,85	47,99%	48,57%	0,51%	5,96%	0,52%	6,05%
01-08-18	1.351.077.158,47	653.151.314,02	47,74%	48,34%	0,51%	5,96%	0,46%	5,43%
01-09-18	1.347.175.468,95	650.526.703,37	47,49%	48,29%	0,51%	5,93%	0,11%	1,35%
01-10-18	1.343.259.994,22	644.850.299,30	47,24%	48,01%	0,51%	5,93%	0,58%	6,78%
01-11-18	1.339.330.685,58	639.376.979,17	47,00%	47,74%	0,51%	5,94%	0,56%	6,49%
01-12-18	1.335.387.494,16	636.169.025,82	46,75%	47,64%	0,51%	5,91%	0,21%	2,47%
01-01-19	1.331.436.127,06	630.727.587,18	46,51%	47,37%	0,51%	5,92%	0,56%	6,53%
01-02-19	1.327.470.799,24	627.625.438,70	46,27%	47,28%	0,50%	5,89%	0,19%	2,31%
01-03-19	1.323.491.461,37	623.295.226,03	46,03%	47,09%	0,50%	5,88%	0,39%	4,60%
01-04-19	1.319.498.063,96	617.566.245,90	45,79%	46,80%	0,50%	5,89%	0,62%	7,18%
01-05-19	1.315.490.557,33	612.155.826,32	45,55%	46,53%	0,51%	5,90%	0,57%	6,68%
01-06-19	1.311.468.891,63	608.468.696,94	45,31%	46,40%	0,50%	5,88%	0,30%	3,51%
01-07-19	1.307.445.030,56	603.026.129,42	45,08%	46,12%	0,50%	5,89%	0,59%	6,85%
01-08-19	1.303.406.952,65	599.988.568,97	44,84%	46,03%	0,50%	5,87%	0,20%	2,32%
01-09-19	1.299.354.607,65	596.994.568,35	44,61%	45,95%	0,50%	5,84%	0,19%	2,24%
01-10-19	1.295.287.945,16	593.157.317,46	44,38%	45,79%	0,50%	5,83%	0,33%	3,90%
01-11-19	1.291.206.914,60	588.608.806,81	44,15%	45,59%	0,50%	5,83%	0,45%	5,30%
01-12-19	1.287.111.465,19	586.086.962,20	43,92%	45,54%	0,50%	5,80%	0,11%	1,33%
01-01-20	1.283.007.586,80	582.011.393,68	43,69%	45,36%	0,50%	5,79%	0,38%	4,44%
01-02-20	1.278.899.208,85	576.900.815,91	43,46%	45,11%	0,50%	5,80%	0,56%	6,50%
01-03-20	1.274.756.280,10	574.255.387,33	43,24%	45,05%	0,49%	5,77%	0,14%	1,62%
01-04-20	1.270.608.749,15	570.688.147,14	43,01%	44,91%	0,49%	5,76%	0,30%	3,50%
01-05-20	1.266.446.564,41	566.899.012,06	42,79%	44,76%	0,49%	5,75%	0,34%	3,98%
01-06-20	1.262.269.674,09	564.474.457,19	42,57%	44,72%	0,49%	5,72%	0,10%	1,17%
01-07-20	1.258.090.161,65	561.357.456,49	42,35%	44,62%	0,49%	5,70%	0,22%	2,63%
01-08-20	1.253.895.882,42	558.415.452,38	42,13%	44,53%	0,49%	5,68%	0,19%	2,27%
01-09-20	1.249.686.784,23	555.831.826,54	41,91%	44,48%	0,48%	5,66%	0,13%	1,52%
01-10-20	1.245.462.814,71	552.224.976,93	41,69%	44,34%	0,48%	5,64%	0,31%	3,68%
01-11-20	1.241.223.921,34	549.392.523,18	41,47%	44,26%	0,48%	5,62%	0,17%	2,06%
01-12-20	1.236.970.051,37	532.199.398,40	41,26%	43,02%	0,49%	5,78%	2,80%	28,85%
01-01-21	1.232.754.393,68	528.454.372,18	41,04%	42,87%	0,49%	5,77%	0,36%	4,28%
01-02-21	1.228.523.841,49	522.117.949,28	40,83%	42,50%	0,50%	5,80%	0,86%	9,83%
01-03-21	1.224.278.342,19	516.348.767,80	40,62%	42,18%	0,50%	5,81%	0,76%	8,77%
01-04-21	1.220.017.842,95	507.919.508,93	40,41%	41,63%	0,50%	5,86%	1,29%	14,42%
01-05-21	1.215.742.290,78	503.697.566,16	40,20%	41,43%	0,50%	5,86%	0,48%	5,64%
01-06-21	1.211.451.632,51	499.689.955,11	39,99%	41,25%	0,50%	5,86%	0,44%	5,20%
01-07-21	1.207.292.210,08	495.056.871,96	39,78%	41,01%	0,50%	5,86%	0,59%	6,81%
01-08-21	1.203.118.091,85	489.891.248,36	39,58%	40,72%	0,50%	5,88%	0,70%	8,09%
01-09-21	1.198.929.225,89	487.030.705,77	39,37%	40,62%	0,50%	5,86%	0,24%	2,80%
01-10-21	1.194.725.560,08	482.355.398,07	39,17%	40,37%	0,50%	5,87%	0,61%	7,10%
01-11-21	1.190.507.042,15	478.934.661,94	38,96%	40,23%	0,50%	5,86%	0,36%	4,20%
01-12-21	1.186.273.619,62	474.096.323,40	38,76%	39,97%	0,50%	5,87%	0,66%	7,60%
01-01-22	1.182.033.383,75	469.843.612,98	38,56%	39,75%	0,50%	5,87%	0,54%	6,31%
01-02-22	1.177.778.166,53	464.824.760,52	38,36%	39,47%	0,50%	5,88%	0,71%	8,20%
01-03-22	1.173.507.915,06	461.458.584,00	38,16%	39,32%	0,50%	5,87%	0,36%	4,27%
01-04-22	1.169.222.576,20	456.483.342,49	37,96%	39,04%	0,50%	5,89%	0,72%	8,26%
01-05-22	1.164.922.096,65	452.252.910,56	37,76%	38,82%	0,50%	5,89%	0,56%	6,53%
01-06-22	1.160.606.422,91	445.274.371,58	37,57%	38,37%	0,51%	5,93%	1,18%	13,24%
01-07-22	1.156.289.870,03	438.464.604,30	37,37%	37,92%	0,51%	5,97%	1,16%	13,08%
01-08-22	1.151.958.066,17	434.072.494,98	37,18%	37,68%	0,51%	5,98%	0,63%	7,30%
01-09-22	1.147.610.957,45	427.778.511,01	36,98%	37,28%	0,52%	6,01%	1,08%	12,18%
01-10-22	1.143.248.489,80	423.955.585,11	36,79%	37,08%	0,52%	6,01%	0,52%	6,01%
01-11-22	1.138.870.608,96	418.778.466,52	36,60%	36,77%	0,52%	6,03%	0,84%	9,64%
01-12-22	1.134.477.260,46	413.081.776,75	36,41%	36,41%	0,52%	6,06%	0,98%	11,13%

