

Household Budgets and Historical Living Standards: Towards Global Comparisons



No. 27.
Gemeente ROTTERDAM. Gezins 5 personen.
Steenhouwer. Van 26, vrom 29, 3 Kinderen 18, 14 en 8 jaar.

UITGAVEN		Percent	INKOMSTEN	
I Brood	f 188.85	15.68	Jan Juni 1910	64.—
II Melk	f 33.99		Juli	77.50
Boter en Margarine	39.65		Augustus	62.—
Eieren	0.72		September	60.—
Kaas	11.15	89.51	October	71.—
III Suiker	f 40.02	7.43	November	56.—
Kruidentenwaren	85.42		December	70.—
Koffie	19.90		Januari 1911	56.—
Thee	10.14	155.49	Februari	56.—
IV Aardappelen	f 53.43		Maart	63.—
Groenten	34.99		April	80.—
Grutterwaren	5.75		Mai	64.—
Fruit	7.66	101.54	Totaal f 779.50	
V Vleesch	f 115.95		Vrouw	—
Vet	0.88		Kinderen	220.50
Viach	7.30	124.13		f 1000.—
VI Kleding	f 103.90	54.76	Bijzonderheden	
Schoetel	34.29	138.19	Dierren:	
VII Brandstof	f 9.55	11.48	School- en Ingeid	f 29.35
Verlichting	37.76	39.3	Voor kinderen en voor	17.64
VIII Wasch- en Poetsart. f 16.69	16.69	1.39	Spoorgeid	3.25
IX Huishuur	f 163.—	13.54	Huishoudelijke artikelen	6.13
X Bier	f —		Vernak	7.83
Sterke Drink	—		Het te kort wordt aangevuld uit een kapitaalje.	
Tabak en Sigaren	—			
XI Contributies	f 18.02	7.49		
Fondsgelden	72.12	90.14		
XII Belasting	f 11.72	0.97		
XIII Diversen	f 77.58	6.44		
	f 1204.36	100.—		



WORKSHOP AT THE INTERNATIONAL INSTITUTE OF SOCIAL HISTORY, AMSTERDAM 12 FEBRUARY 2016

Measuring historical living standards

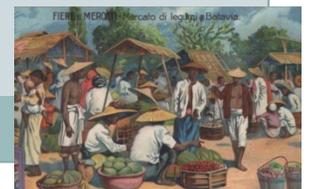


In broad lines, 3 approaches:

- 1) GDP per capita (e.g. Kuznets; Maddison; Van Zanden e.a.)
- 2) Real wage approach (e.g. Phelps Brown; Allen e.a.; Frankema & Van Waijenburg)
- 3) Anthropometric history (e.g. Komlos; Baten e.a.; Carson)

NO. 21.
Banco de España
Cuentas de los años 1800 a 1809
Cuenta de los años 1800 a 1809
Cuenta de los años 1800 a 1809

Concepto	1800	1801	1802	1803	1804	1805	1806	1807	1808	1809
1. Ingresos	1.000.000	1.000.000	1.000.000	1.000.000	1.000.000	1.000.000	1.000.000	1.000.000	1.000.000	1.000.000
2. Gastos	1.000.000	1.000.000	1.000.000	1.000.000	1.000.000	1.000.000	1.000.000	1.000.000	1.000.000	1.000.000
3. Saldo	0	0	0	0	0	0	0	0	0	0



Advantages



- 1) Historical projection of present-day measures
- 2) Geographical comparability
- 3) Links up to grand historical explanations for global inequality

NO. 21.

DESCRIPTION	AMOUNT	CURRENCY
1. 1/2 CASH	100.00	100.00
2. 1/4 CASH	50.00	50.00
3. 1/8 CASH	25.00	25.00
4. 1/16 CASH	12.50	12.50
5. 1/32 CASH	6.25	6.25
6. 1/64 CASH	3.125	3.125
7. 1/128 CASH	1.5625	1.5625
8. 1/256 CASH	0.78125	0.78125
9. 1/512 CASH	0.390625	0.390625
10. 1/1024 CASH	0.1953125	0.1953125
11. 1/2048 CASH	0.09765625	0.09765625
12. 1/4096 CASH	0.048828125	0.048828125
13. 1/8192 CASH	0.0244140625	0.0244140625
14. 1/16384 CASH	0.01220703125	0.01220703125
15. 1/32768 CASH	0.006103515625	0.006103515625
16. 1/65536 CASH	0.0030517578125	0.0030517578125
17. 1/131072 CASH	0.00152587890625	0.00152587890625
18. 1/262144 CASH	0.000762939453125	0.000762939453125
19. 1/524288 CASH	0.0003814697265625	0.0003814697265625
20. 1/1048576 CASH	0.00019073486328125	0.00019073486328125
21. 1/2097152 CASH	0.000095367431640625	0.000095367431640625
22. 1/4194304 CASH	0.0000476837158203125	0.0000476837158203125
23. 1/8388608 CASH	0.00002384185791015625	0.00002384185791015625
24. 1/16777216 CASH	0.000011920928955078125	0.000011920928955078125
25. 1/33554432 CASH	0.0000059604644775390625	0.0000059604644775390625
26. 1/67108864 CASH	0.00000298023223876953125	0.00000298023223876953125
27. 1/134217728 CASH	0.000001490116119384765625	0.000001490116119384765625
28. 1/268435456 CASH	0.0000007450580596923828125	0.0000007450580596923828125
29. 1/536870912 CASH	0.00000037252902984619140625	0.00000037252902984619140625
30. 1/1073741824 CASH	0.000000186264514923095703125	0.000000186264514923095703125
31. 1/2147483648 CASH	0.0000000931322574615478515625	0.0000000931322574615478515625
32. 1/4294967296 CASH	0.00000004656612873077392578125	0.00000004656612873077392578125
33. 1/8589934592 CASH	0.000000023283064365386962890625	0.000000023283064365386962890625
34. 1/17179869184 CASH	0.0000000116415321826934814453125	0.0000000116415321826934814453125
35. 1/34359738368 CASH	0.00000000582076609134674072265625	0.00000000582076609134674072265625
36. 1/68719476736 CASH	0.000000002910383045673370361328125	0.000000002910383045673370361328125
37. 1/137438953472 CASH	0.0000000014551915228366851806640625	0.0000000014551915228366851806640625
38. 1/274877906944 CASH	0.00000000072759576141834259033203125	0.00000000072759576141834259033203125
39. 1/549755813888 CASH	0.000000000363797880709171295166015625	0.000000000363797880709171295166015625
40. 1/1099511627776 CASH	0.0000000001818989403545856475830078125	0.0000000001818989403545856475830078125
41. 1/2199023255552 CASH	0.00000000009094947017729282379150390625	0.00000000009094947017729282379150390625
42. 1/4398046511104 CASH	0.000000000045474735088646411895751953125	0.000000000045474735088646411895751953125
43. 1/8796093022208 CASH	0.0000000000227373675443232059478759765625	0.0000000000227373675443232059478759765625
44. 1/17592186044416 CASH	0.00000000001136868377216160297393798828125	0.00000000001136868377216160297393798828125
45. 1/35184372088832 CASH	0.000000000005684341886080148896968994140625	0.000000000005684341886080148896968994140625
46. 1/70368744177664 CASH	0.00000000000284217094304007444848449707265625	0.00000000000284217094304007444848449707265625
47. 1/140737488355328 CASH	0.000000000001421085471520037224242498536328125	0.000000000001421085471520037224242498536328125
48. 1/281474976710656 CASH	0.0000000000007105427357600186121212492681640625	0.0000000000007105427357600186121212492681640625
49. 1/562949953421312 CASH	0.00000000000035527136788000930606062463408203125	0.00000000000035527136788000930606062463408203125
50. 1/1125899906842624 CASH	0.000000000000177635683940004653030312317041015625	0.000000000000177635683940004653030312317041015625
51. 1/2251799813685248 CASH	0.0000000000000888178419700023265151561585205078125	0.0000000000000888178419700023265151561585205078125
52. 1/4503599627370496 CASH	0.00000000000004440892098500116325757807926025390625	0.00000000000004440892098500116325757807926025390625
53. 1/9007199254740992 CASH	0.000000000000022204460492500581628789039630126953125	0.000000000000022204460492500581628789039630126953125
54. 1/18014398509481984 CASH	0.0000000000000111022302462502908143945198150634765625	0.0000000000000111022302462502908143945198150634765625
55. 1/36028797018963968 CASH	0.0000000000000055511151231251454071972599078125	0.0000000000000055511151231251454071972599078125
56. 1/72057594037927936 CASH	0.0000000000000027755575615625727035986299440625	0.0000000000000027755575615625727035986299440625
57. 1/144115188075855872 CASH	0.00000000000000138777878078128635197431497203125	0.00000000000000138777878078128635197431497203125
58. 1/288230376151711744 CASH	0.0000000000000006938893903906431759871574860625	0.0000000000000006938893903906431759871574860625
59. 1/576460752303423488 CASH	0.00000000000000034694469519532158799357874303125	0.00000000000000034694469519532158799357874303125
60. 1/1152921504606846976 CASH	0.00000000000000017347234759766079399678937165625	0.00000000000000017347234759766079399678937165625
61. 1/2305843009213693952 CASH	0.000000000000000086736173798830396998394685828125	0.000000000000000086736173798830396998394685828125
62. 1/4611686018427387904 CASH	0.0000000000000000433680868994151984991973429140625	0.0000000000000000433680868994151984991973429140625
63. 1/9223372036854775808 CASH	0.00000000000000002168404344970759924959867145703125	0.00000000000000002168404344970759924959867145703125
64. 1/18446744073709551616 CASH	0.0000000000000000108420217248537996247993357285625	0.0000000000000000108420217248537996247993357285625
65. 1/36893488147419103232 CASH	0.00000000000000000542101086242689981239966786428125	0.00000000000000000542101086242689981239966786428125
66. 1/73786976294838206464 CASH	0.000000000000000002710505431213449906199833932140625	0.000000000000000002710505431213449906199833932140625
67. 1/147573952589676412928 CASH	0.0000000000000000013552527156067249530999169660703125	0.0000000000000000013552527156067249530999169660703125
68. 1/295147905179352825856 CASH	0.00000000000000000067762635780336247654995848303515625	0.00000000000000000067762635780336247654995848303515625
69. 1/5902958103587056517056 CASH	0.0000000000000000003388131789016812382749792415178125	0.0000000000000000003388131789016812382749792415178125
70. 1/11805916207174113034112 CASH	0.00000000000000000016940658945084061913748962075890625	0.00000000000000000016940658945084061913748962075890625
71. 1/23611832414348226068224 CASH	0.000000000000000000084703294725420309568744810379453125	0.000000000000000000084703294725420309568744810379453125
72. 1/47223664828696452136448 CASH	0.000000000000000000042351647362710154784372405189765625	0.000000000000000000042351647362710154784372405189765625
73. 1/94447329657392904272896 CASH	0.0000000000000000000211758236813550773921862025948828125	0.0000000000000000000211758236813550773921862025948828125
74. 1/188894659314785808545792 CASH	0.00000000000000000001058791184067753869609310129744140625	0.00000000000000000001058791184067753869609310129744140625
75. 1/377789318629571617091584 CASH	0.000000000000000000005293955920338769348046550648720703125	0.000000000000000000005293955920338769348046550648720703125
76. 1/755578637259143234183168 CASH	0.0000000000000000000026469779601693846740232753243603515625	0.0000000000000000000026469779601693846740232753243603515625
77. 1/1511157274518286468366336 CASH	0.000000000000000000001323488980084692337201163762180178125	0.000000000000000000001323488980084692337201163762180178125
78. 1/3022314549036572936732672 CASH	0.00000000000000000000066174449004234616860058188109009375	0.00000000000000000000066174449004234616860058188109009375
79. 1/6044629098073145873465344 CASH	0.000000000000000000000330872245021173084300290940545046875	0.000000000000000000000330872245021173084300290940545046875
80. 1/12089258196146291746930688 CASH	0.0000000000000000000001654361225105865421501454702725234375	0.0000000000000000000001654361225105865421501454702725234375
81. 1/24178516392292583493861376 CASH	0.00000000000000000000008271806125529327107507273513626171875	0.00000000000000000000008271806125529327107507273513626171875
82. 1/48357032784585166987722752 CASH	0.000000000000000000000041359030627646635537536367568130859375	0.000000000000000000000041359030627646635537536367568130859375
83. 1/96714065569170333975445504 CASH	0.0000000000000000000000206795153138233177687681837840654296875	0.0000000000000000000000206795153138233177687681837840654296875
84. 1/193428131138340667950891008 CASH	0.00000000000000000000001033975765691165888438409189203271484375	0.00000000000000000000001033975765691165888438409189203271484375
85. 1/386856262276681335901782016 CASH	0.000000000000000000000005169878828455829442192045946016357221875	0.000000000000000000000005169878828455829442192045946016357221875
86. 1/773712524553362671803564032 CASH	0.0000000000000000000000025849394142279147210960229730081786109375	0.0000000000000000000000025849394142279147210960229730081786109375
87. 1/1547425049106725343607128064 CASH	0.0000000000000000000000012924697071139573605480114865040893046875	0.0000000000000000000000012924697071139573605480114865040893046875
88. 1/3094850098213450687214256128 CASH	0.00000000000000000000000064623485355697868027400574325204465234375	0.00000000000000000000000064623485355697868027400574325204465234375
89. 1/6189700196426901374428512256 CASH	0.000000000000000000000000323117426778489340137002871626122326196875	0.000000000000000000000000323117426778489340137002871626122326196875
90. 1/12379400392853802748857024512 CASH	0.00000000000000000000000016155871338924467006850143581306116309375	0.00000000000000000000000016155871338924467006850143581306116309375
91. 1/24758800785707605497714049024 CASH	0.000000000000000000000000080779356694622335034250717906530581546875	0.000000000000000000000000080779356694622335034250717906530581546875
92. 1/49517601571415210995428098048 CASH	0.0000000000000000000000000403896783473111675171253589532652907734375	0.0000000000000000000000000403896783473111675171253589532652907734375
93. 1/99035203142830421990856196096 CASH	0.0000000000000000000000000201948391736555837585626794766326453869375	0.0000000000000000000000000201948391736555837585626794766326453869375
94. 1/198070406285660843981712392192 CASH	0.00000000000000000000000001009741958682779187928133973831632269309375	0.00000000000000000000000001009741958682779187928133973831632269309375
95. 1/396140812571321687963424784384 CASH	0.0000000000000000000000000050487097934413895896416698691566134696875	0.0000000000000000000000000050487097934413895896416698691566134696875
96. 1/792281625142643375926849568768 CASH	0.00000000000000000000000000252435489672069479482083493458306734375	0.00000000000000000000000000252435489672069479482083493458306734375
97. 1/1584563250285286751853699137536 CASH	0.000000000000000000000000001262177448360347397410417241766531696875	0.000000000000000000000000001262177448360347397410417241766531696875
98. 1/3169126500570573503707398275		

Increasingly: global comparisons



E.g. Maddison project

<http://www.ggdcc.net/maddison/maddison-project/home.htm>

Maddison Project



Historical prices and wages/Clio-infra

<https://www.clio-infra.eu/>



Reconstructing Global Inequality



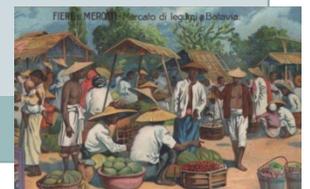
Disadvantages



- 1) GDP: Highly aggregate level (nation state)
- 2) GDP & Real wages: Not much scope for analyzing distribution effects
- 3) Real wage approach: issues of representativeness (esp. for non-monetized economies)
- 4) Anthropometric evidence: issues of representativeness/ scattered material

NO. 21

CONTO	DEBITO	CREDITO
1. Saldo		1.000,00
2. Rendite		100,00
3. Spese	500,00	
4. Rendite		50,00
5. Spese	100,00	
6. Rendite		50,00
7. Spese	50,00	
8. Rendite		25,00
9. Spese	25,00	
10. Rendite		12,50
11. Spese	12,50	
12. Rendite		6,25
13. Spese	6,25	
14. Rendite		3,12
15. Spese	3,12	
16. Rendite		1,56
17. Spese	1,56	
18. Rendite		0,78
19. Spese	0,78	
20. Rendite		0,39
21. Spese	0,39	
22. Rendite		0,19
23. Spese	0,19	
24. Rendite		0,09
25. Spese	0,09	
26. Rendite		0,05
27. Spese	0,05	
28. Rendite		0,02
29. Spese	0,02	
30. Rendite		0,01
31. Spese	0,01	
32. Rendite		0,00
33. Spese	0,00	
34. Rendite		0,00
35. Spese	0,00	
36. Rendite		0,00
37. Spese	0,00	
38. Rendite		0,00
39. Spese	0,00	
40. Rendite		0,00
41. Spese	0,00	
42. Rendite		0,00
43. Spese	0,00	
44. Rendite		0,00
45. Spese	0,00	
46. Rendite		0,00
47. Spese	0,00	
48. Rendite		0,00
49. Spese	0,00	
50. Rendite		0,00



Household budgets as an alternative?



- Allow for social stratification
- Note *actual* expenditure and income, the latter often from different sources (i.e. not only male wages)
- Allows for an integration of labour relations and households' consumption ('industrious revolution')
- Available for many different regions from end of the 19th century.

However...

NO. 21.

DESCRIZIONE	QUANTITÀ	VALORE
1. Rende
2. Rende
3. Rende
4. Rende
5. Rende
6. Rende
7. Rende
8. Rende
9. Rende
10. Rende
11. Rende
12. Rende
13. Rende
14. Rende
15. Rende
16. Rende
17. Rende
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42. Rende
43. Rende
44. Rende
45. Rende
46. Rende
47. Rende
48. Rende
49. Rende
50. Rende



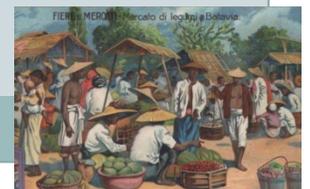
Household budgets as an alternative?



- Very different quality of information (comparability)
- Surveys often structured according to specific aims of contemporary administrators
- Reliability and representativeness?
- As of yet, not much *comparative* work

NO. 21

CONTO	DESCRIZIONE	DEBITO	CREDITO
1. Saldo			
2. Rendite			
3. Spese			
4. Rendite			
5. Spese			
6. Rendite			
7. Spese			
8. Rendite			
9. Spese			
10. Rendite			
11. Spese			
12. Rendite			
13. Spese			
14. Rendite			
15. Spese			
16. Rendite			
17. Spese			
18. Rendite			
19. Spese			
20. Rendite			
21. Spese			
22. Rendite			
23. Spese			
24. Rendite			
25. Spese			
26. Rendite			
27. Spese			
28. Rendite			
29. Spese			
30. Rendite			
31. Spese			
32. Rendite			
33. Spese			
34. Rendite			
35. Spese			
36. Rendite			
37. Spese			
38. Rendite			
39. Spese			
40. Rendite			
41. Spese			
42. Rendite			
43. Spese			
44. Rendite			
45. Spese			
46. Rendite			
47. Spese			
48. Rendite			
49. Spese			
50. Rendite			



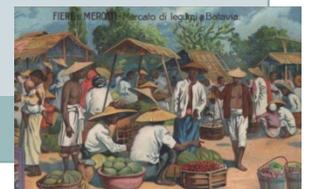
Aim of this workshop

- Inventory of different projects using household budgets for reconstructing historical living standards in comparative perspective (e.g. Gazeley & Newell; Vecchi; Boter & Van Nderveen Meerkerk)
- Discuss opportunities and limitations of this source
- Discuss different methodologies used
- Achieve future collaboration/data sharing



NO. 21.

DESCRIZIONE	QUANTITÀ	VALORE	DESCRIZIONE	QUANTITÀ	VALORE
1. Caffè	100	100	1. Caffè	100	100
2. Zucchero	50	50	2. Zucchero	50	50
3. Farina	200	200	3. Farina	200	200
4. Olio	100	100	4. Olio	100	100
5. Sale	100	100	5. Sale	100	100
6. Legumi	100	100	6. Legumi	100	100
7. Carne	100	100	7. Carne	100	100
8. Uova	100	100	8. Uova	100	100
9. Latte	100	100	9. Latte	100	100
10. Pane	100	100	10. Pane	100	100
11. Acqua	100	100	11. Acqua	100	100
12. Gas	100	100	12. Gas	100	100
13. Riscaldamento	100	100	13. Riscaldamento	100	100
14. Illuminazione	100	100	14. Illuminazione	100	100
15. Vestiti	100	100	15. Vestiti	100	100
16. Mobili	100	100	16. Mobili	100	100
17. Altri	100	100	17. Altri	100	100
18. Totale			18. Totale		



Some issues to discuss...



- **Representativeness of budget studies for living standards** (esp. until 1930s → random sampling? Who has conducted study, with which purpose? Longitudinal analysis difficult → Arroyo Abad: “spotty coverage” data)
- **How to measure the value of subsistence agriculture?** (esp. in ‘Global South’) Market prices? Farmgate prices? Caloric value?
- **Comparability of HH budgets on a global scale?** (already issue within-countries!)
- **Can we join forces?** Standardization and future cooperation? What role can Clio-infra portal play?

BUDGETI DOMESTICI		ANNO 1911	
MILIAIA DI LIRE		MILIAIA DI LIRE	
1. Salari	1.000,00	2. Salari	1.000,00
2. Rendi	500,00	3. Rendi	500,00
3. Rendite	200,00	4. Rendite	200,00
4. Rendite	100,00	5. Rendite	100,00
5. Rendite	50,00	6. Rendite	50,00
6. Rendite	25,00	7. Rendite	25,00
7. Rendite	12,50	8. Rendite	12,50
8. Rendite	6,25	9. Rendite	6,25
9. Rendite	3,12	10. Rendite	3,12
10. Rendite	1,56	11. Rendite	1,56
11. Rendite	0,78	12. Rendite	0,78
12. Rendite	0,39	13. Rendite	0,39
13. Rendite	0,19	14. Rendite	0,19
14. Rendite	0,09	15. Rendite	0,09
15. Rendite	0,05	16. Rendite	0,05
16. Rendite	0,02	17. Rendite	0,02
17. Rendite	0,01	18. Rendite	0,01
18. Rendite	0,00	19. Rendite	0,00
19. Rendite	0,00	20. Rendite	0,00
20. Rendite	0,00	21. Rendite	0,00
21. Rendite	0,00	22. Rendite	0,00
22. Rendite	0,00	23. Rendite	0,00
23. Rendite	0,00	24. Rendite	0,00
24. Rendite	0,00	25. Rendite	0,00
25. Rendite	0,00	26. Rendite	0,00
26. Rendite	0,00	27. Rendite	0,00
27. Rendite	0,00	28. Rendite	0,00
28. Rendite	0,00	29. Rendite	0,00
29. Rendite	0,00	30. Rendite	0,00
30. Rendite	0,00	31. Rendite	0,00
31. Rendite	0,00	32. Rendite	0,00
32. Rendite	0,00	33. Rendite	0,00
33. Rendite	0,00	34. Rendite	0,00
34. Rendite	0,00	35. Rendite	0,00
35. Rendite	0,00	36. Rendite	0,00
36. Rendite	0,00	37. Rendite	0,00
37. Rendite	0,00	38. Rendite	0,00
38. Rendite	0,00	39. Rendite	0,00
39. Rendite	0,00	40. Rendite	0,00
40. Rendite	0,00	41. Rendite	0,00
41. Rendite	0,00	42. Rendite	0,00
42. Rendite	0,00	43. Rendite	0,00
43. Rendite	0,00	44. Rendite	0,00
44. Rendite	0,00	45. Rendite	0,00
45. Rendite	0,00	46. Rendite	0,00
46. Rendite	0,00	47. Rendite	0,00
47. Rendite	0,00	48. Rendite	0,00
48. Rendite	0,00	49. Rendite	0,00
49. Rendite	0,00	50. Rendite	0,00
50. Rendite	0,00	51. Rendite	0,00
51. Rendite	0,00	52. Rendite	0,00
52. Rendite	0,00	53. Rendite	0,00
53. Rendite	0,00	54. Rendite	0,00
54. Rendite	0,00	55. Rendite	0,00
55. Rendite	0,00	56. Rendite	0,00
56. Rendite	0,00	57. Rendite	0,00
57. Rendite	0,00	58. Rendite	0,00
58. Rendite	0,00	59. Rendite	0,00
59. Rendite	0,00	60. Rendite	0,00
60. Rendite	0,00	61. Rendite	0,00
61. Rendite	0,00	62. Rendite	0,00
62. Rendite	0,00	63. Rendite	0,00
63. Rendite	0,00	64. Rendite	0,00
64. Rendite	0,00	65. Rendite	0,00
65. Rendite	0,00	66. Rendite	0,00
66. Rendite	0,00	67. Rendite	0,00
67. Rendite	0,00	68. Rendite	0,00
68. Rendite	0,00	69. Rendite	0,00
69. Rendite	0,00	70. Rendite	0,00
70. Rendite	0,00	71. Rendite	0,00
71. Rendite	0,00	72. Rendite	0,00
72. Rendite	0,00	73. Rendite	0,00
73. Rendite	0,00	74. Rendite	0,00
74. Rendite	0,00	75. Rendite	0,00
75. Rendite	0,00	76. Rendite	0,00
76. Rendite	0,00	77. Rendite	0,00
77. Rendite	0,00	78. Rendite	0,00
78. Rendite	0,00	79. Rendite	0,00
79. Rendite	0,00	80. Rendite	0,00
80. Rendite	0,00	81. Rendite	0,00
81. Rendite	0,00	82. Rendite	0,00
82. Rendite	0,00	83. Rendite	0,00
83. Rendite	0,00	84. Rendite	0,00
84. Rendite	0,00	85. Rendite	0,00
85. Rendite	0,00	86. Rendite	0,00
86. Rendite	0,00	87. Rendite	0,00
87. Rendite	0,00	88. Rendite	0,00
88. Rendite	0,00	89. Rendite	0,00
89. Rendite	0,00	90. Rendite	0,00
90. Rendite	0,00	91. Rendite	0,00
91. Rendite	0,00	92. Rendite	0,00
92. Rendite	0,00	93. Rendite	0,00
93. Rendite	0,00	94. Rendite	0,00
94. Rendite	0,00	95. Rendite	0,00
95. Rendite	0,00	96. Rendite	0,00
96. Rendite	0,00	97. Rendite	0,00
97. Rendite	0,00	98. Rendite	0,00
98. Rendite	0,00	99. Rendite	0,00
99. Rendite	0,00	100. Rendite	0,00

