



General Criteria:

S&P Global Ratings' National And Regional Scale **Mapping Tables**

August 14, 2017

(Editor's Note: This article has been fully superseded by "Methodology For National And Regional Scale Credit Ratings," published

SUMMARY OF THE CRITERIA

- S&P Global Ratings is revising the mapping guidelines for our national and regional credit rating scales corresponding to the global rating scale. This article fully supersedes "S&P Global Ratings" National And Regional Scale Mapping Tables," published July 27, 2017, on RatingsDirect.
- National and regional scale ratings express relative opinions about the creditworthiness of an issuer or the credit quality of an individual debt issue within the universe of credit risk on the national scale. National scale ratings are not directly comparable with our global scale ratings or with national scale ratings for other countries. National scale credit ratings generally include a prefix to denote the country (such as 'mx' for Mexico or 'ru' for Russia) and to distinguish them from global scale ratings and other national scales. On certain national scales, we have only long-term ratings.
- We may make adjustments to these mapping guidelines at any time in accordance with our criteria. For example, we may make adjustments to mapping guidelines following a material change in sovereign risk so the national scale would continue to provide adequate differentiation of credit risk among local issuers and debt issues.

IMPACT ON OUTSTANDING RATINGS

The revisions to the Brazil national scale mapping table have no impact on global scale ratings in Brazil. However, the changes will affect about half of current national scale long-term issuer and issue ratings in Brazil. We expect approximately one-third of all Brazil national scale issuer and issue long-term ratings to be raised by one notch, and nearly 20% to be raised by two or three notches. We also expect the recalibration to affect the majority of outstanding Brazil national scale short-term ratings, with most ratings subject to a one-notch increase. The raising of national scale issuer and issue credit ratings as a result of this recalibration does not reflect improvements in the creditworthiness of the entity or obligation.

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EFFECTIVE DATE

5. These mapping tables are effective immediately, except for those markets that require prior notification to and/or registration by the local regulator, where the criteria will become effective when so notified by S&P Global Ratings and/or registered by the regulator.

Table 1

National- And Regional-Scale Mapping Tables In This Article

| Scale Name | Prefix | Countries |
|--|--------|--|
| Argentina National Scale | ra | Argentina |
| ASEAN Regional Scale | ax | Association of Southeast Asian Nations: Brunei Darussalam, Cambodia, Indonesia, Laos, Malaysia, Myanmar, Philippines, Singapore, Thailand, Vietnam |
| Brazil National Scale | br | Brazil |
| Chile National Scale | cl | Chile |
| Greater China Regional Scale | cn | China, Hong Kong, Macau, and Taiwan |
| Gulf Cooperation Council Regional Scale | gc | Bahrain, Kuwait, Oman, Qatar, Saudia Arabia, United Arab Emirates |
| Israel (Maalot) National Scale | il | Israel |
| Kazakhstan National Scale | kz | Kazakhstan |
| Mexico (CaVal) National Scale | mx | Mexico |
| Nigeria National Scale | ng | Nigeria |
| Nordic Regional Scale | None | Denmark, Finland, Sweden |
| Russia National Scale | ru | Russia |
| South Africa National Scale | za | South Africa |
| Taiwan Ratings National Scale | tw | Taiwan |
| Turkey National Scale | tr | Turkey |
| Ukraine National Scale | ua | Ukraine |
| Uruguay National Scale | uy | Uruguay |

Table 2

Argentina Mapping Table

| Global-scale long-term local currency rating | National-scale long-term rating | National-scale short-term rating |
|--|---------------------------------|----------------------------------|
| BB- and above | raAAA | raA-1+ |
| B+ | raAA+, raAA | raA-1+ |
| В | raAA- | raA-1+ |
| В | raA+, raA | raA-1 |
| B- | raA-, raBBB+, raBBB | raA-2 |
| B- | raBBB- | raA-3 |
| CCC+ | raBB+, raBB, raBB-, raB+ | raB |
| CCC | raB+, raB, raB- | raB |
| | | |

Table 2

Argentina Mapping Table (cont.)

| Global-scale long-term local currency rating | National-scale long-term rating | National-scale short-term rating |
|--|---------------------------------|----------------------------------|
| CCC- | raCCC+, raCCC, raCCC- | raC |
| СС | raCC | raC |
| С | raC | raC |
| R | R | R |
| SD | SD | SD |
| D | D | D |

R--Regulatory supervision. SD--Selective default. D--Default.

Table 3

ASEAN Mapping Table

| Global scale | | Regional scale | |
|---------------------------------|------------------------------|------------------|-------------------|
| Long-term local-currency rating | Oulook | Long-term rating | Short-term rating |
| A+ and above | Any | axAAA | axA-1+ |
| A | Positive, Stable | axAAA | axA-1+ |
| A | Negative, Developing | axAA+ | axA-1 |
| A- | Positive | axAA+ | axA-1 |
| A- | Stable, Developing | axAA | axA-1 |
| A- | Negative | axAA- | axA-1 |
| BBB+ | Positive | axAA- | axA-1 |
| BBB+ | Stable, Developing, Negative | axA+ | axA-1 |
| BBB | Positive | axA+ | axA-1 |
| BBB | Stable, Developing | axA | axA-2 |
| BBB | Negative | axA- | axA-2 |
| BBB- | Positive, Stable, Developing | axA- | axA-2 |
| BBB- | Negative | axBBB+ | axA-2 |
| BB+ | Positive, Stable, Developing | axBBB+ | axA-2 |
| BB+ | Negative | axBBB | axA-3 |
| ВВ | Positive | axBBB | axA-3 |
| ВВ | Stable, Developing | axBBB- | axA-3 |
| ВВ | Negative | axBB+ | axB |
| BB- | Positive, Stable, Developing | axBB+ | axB |
| BB- | Negative | axBB | axB |
| B+ | Positive, Stable, Developing | axBB | axB |
| B+ | Negative | axBB- | axB |
| В | Positive, Stable, Developing | axBB- | axB |
| В | Negative | axB+ | axB |
| | | | |

Table 3

ASEAN Mapping Table (cont.)

| Global scale | | Regional scale | |
|---------------------------------|--------------------|------------------|-------------------|
| Long-term local-currency rating | Oulook | Long-term rating | Short-term rating |
| B- | Positive | axB+ | axB |
| B- | Stable, Developing | axB | axB |
| B- | Negative | axB- | axB |
| CCC+ | Any | axCCC+ | axC |
| CCC | Any | axCCC | axC |
| CCC- | Any | axCCC- | axC |
| CC | Any | axCC | axC |
| С | Any | axC | axC |
| R | | R | R |
| SD | | SD | SD |
| D | | D | D |

 $A SEAN--Association of Southeast Asian \ Nations. \ R--Regulatory \ supervision. \ SD--Selective \ default. \ D--Default.$

Table 4

Brazil Mapping Table

| ${\bf Global\text{-}scale\ long\text{-}term\ local\text{-}currency\ rating}$ | National-scale long-term rating | National-scale short-term rating |
|--|---------------------------------|----------------------------------|
| BB+ and above | brAAA | brA-1+ |
| ВВ | brAA+, brAA, brAA- | brA-1+ |
| BB- | brAA- | brA-1+ |
| BB- | brA+ | brA-1 |
| B+ | brA | brA-1 |
| B+ | brA-, brBBB+ | brA-2 |
| В | brBBB | brA-2 |
| В | brBBB- | brA-3 |
| В | brBB+ | brB |
| B- | brBB, brBB-, brB+ | brB |
| CCC+ | brB, brB- | brB |
| ccc | brCCC+, brCCC | brC |
| CCC- | brCCC- | brC |
| СС | brCC | brC |
| С | brC | brC |
| R | R | R |
| SD | SD | SD |
| D | D | D |
| | | |

R--Regulatory supervision. SD--Selective default. D--Default.

Table 5

Chile Mapping Table

| Global-scale long-term local currency rating | National-scale long-term rating | National-scale short-term rating |
|--|---------------------------------|----------------------------------|
| A and above | clAAA | clA-1+ |
| A- | clAAA, clAA+ | clA-1+ |
| BBB+ | clAA+, clAA | clA-1+ |
| BBB | clAA, clAA- | clA-1+ |
| BBB | clA+ | clA-1 |
| BBB- | clA+, clA | clA-1 |
| BB+ | clA, clA- | clA-2 |
| ВВ | clA-, clBBB+, clBBB | clA-2 |
| BB- | clBBB | clA-2 |
| BB- | clBBB- | clA-3 |
| B+ | clBB+, clBB, clBB- | clB |
| В | clBB-, clB+, clB | clB |
| B- | clB, clB- | clB |
| CCC+ | clCCC+ | clC |
| ccc | clCCC | clC |
| ccc- | clCCC- | clC |
| CC | clCC | clC |
| С | clC | clC |
| R | R | R |
| SD | SD | SD |
| | D | D |

Table 6

Greater China Mapping Table

| Global scale | | Regional scale | |
|---------------------------------|------------------------------|------------------|-------------------|
| Long-term local-currency rating | Outlook | Long-term rating | Short-term rating |
| A+ and above | Any | cnAAA | cnA-1+ |
| A | Positive | cnAAA | cnA-1+ |
| A | Stable, Developing, Negative | cnAA+ | cnA-1 |
| A- | Positive | cnAA+ | cnA-1 |
| A- | Stable, Developing | cnAA | cnA-1 |
| A- | Negative | cnAA- | cnA-1 |
| BBB+ | Positive | cnAA- | cnA-1 |
| BBB+ | Stable, Developing, Negative | cnA+ | cnA-1 |
| BBB | Positive | cnA+ | cnA-1 |

Table 6

Greater China Mapping Table (cont.)

| Global scale | | Regional scale | |
|---------------------------------|------------------------------|------------------|-------------------|
| Long-term local-currency rating | Outlook | Long-term rating | Short-term rating |
| BBB | Stable, Developing | cnA | cnA-2 |
| BBB | Negative | cnA- | cnA-2 |
| BBB- | Positive, Stable, Developing | cnA- | cnA-2 |
| BBB- | Negative | cnBBB+ | cnA-2 |
| BB+ | Positive, Stable, Developing | cnBBB+ | cnA-2 |
| BB+ | Negative | cnBBB | cnA-3 |
| ВВ | Positive | cnBBB | cnA-3 |
| ВВ | Stable, Developing | cnBBB- | cnA-3 |
| ВВ | Negative | cnBB+ | cnB |
| BB- | Positive, Stable, Developing | cnBB+ | cnB |
| BB- | Negative | cnBB | cnB |
| B+ | Positive, Stable, Developing | cnBB | cnB |
| B+ | Negative | cnBB- | cnB |
| В | Positive, Stable, Developing | cnBB- | cnB |
| В | Negative | cnB+ | cnB |
| B- | Positive | cnB+ | cnB |
| B- | Stable, Developing | cnB | cnB |
| B- | Negative | cnB- | cnB |
| CCC+ | Any | cnCCC+ | cnC |
| CCC | Any | cnCCC | cnC |
| CCC- | Any | cnCCC- | cnC |
| CC | Any | cnCC | cnC |
| С | Any | cnC | cnC |
| R | | R | R |
| SD | | SD | SD |
| D | | D | D |
| | | | |

R--Regulatory supervision. SD--Selective default. D--Default.

Table 7

Gulf Cooperation Council Mapping Table

| Global-scale long-term local-currency rating | Regional-scale long-term rating | Regional-scale short-term rating |
|--|---------------------------------|----------------------------------|
| A- and above | gcAAA | gcA-1+ |
| BBB+ | gcAA+ | gcA-1+ |
| BBB | gcAA | gcA-1 |
| BBB- | gcAA- | gcA-1 |

Table 7

Gulf Cooperation Council Mapping Table (cont.)

| ${\bf Global\text{-}scale\ long\text{-}term\ local\text{-}currency\ rating}$ | Regional-scale long-term rating | Regional-scale short-term rating |
|--|---------------------------------|----------------------------------|
| BB+ | gcA+, gcA | gcA-2 |
| ВВ | gcA-, gcBBB+ | gcA-2 |
| BB- | gcBBB, gcBBB- | gcA-3 |
| B+ | gcBB+, gcBB | gcB |
| В | gcBB-, gcB+ | gcB |
| B- | gcB, gcB- | gcB |
| CCC+ | gcCCC+ | gcC |
| ccc | gcCCC | gcC |
| CCC- | gcCCC- | gcC |
| cc | gcCC | gcC |
| С | gcC | gcC |
| R | R | R |
| SD | SD | SD |
| D | D | D |
| | | |

R--Regulatory supervision. SD--Selective default. D--Default.

Table 8

Israel (Maalot) Mapping Table

| ${\bf Global\text{-}scale\ long\text{-}term\ local\text{-}currency\ rating}$ | National-scale long-term rating | National-scale short-term rating |
|--|---------------------------------|----------------------------------|
| A- and above | ilAAA | ilA-1+ |
| BBB+ | ilAAA, ilAA+ | ilA-1+ |
| BBB | ilAA+, ilAA | ilA-1+ |
| BBB- | ilAA | ilA-1+ |
| BBB- | ilAA- | ilA-1 |
| BB+ | ilAA- | ilA-1 |
| ВВ | ilAA-, ilA+ | ilA-1 |
| BB- | ilA+, ilA | ilA-1 |
| B+ | ilA | ilA-1 |
| B+ | ilA- | ilA-2 |
| В | ilA-, ilBBB+, ilBBB | ilA-2 |
| B- | ilBBB, ilBBB- | ilA-3 |
| CCC+ | ilBB+, ilBB, ilBB- | ilB |
| ccc | ilB | ilB |
| CCC- | ilCCC | ilC |
| CC | ilCC | ilC |
| С | ilC | ilC |
| | | |

Table 8

Israel (Maalot) Mapping Table (cont.)

| Global-scale long-term local-currency rating | National-scale long-term rating | National-scale short-term rating |
|--|---------------------------------|----------------------------------|
| R | R | R |
| SD | SD | SD |
| D | D | D |

 $[\]hbox{R--Regulatory supervision. SD--Selective default. D--Default.}$

Table 9

Kazakhstan Mapping Table

| ${\bf Global\text{-}scale\ long\text{-}term\ local\text{-}currency\ rating}$ | National-scale long-term rating |
|--|---------------------------------|
| BBB+ and above | kzAAA |
| BBB | kzAA+ |
| BBB- | kzAA |
| BB+ | kzAA- |
| ВВ | kzA+, kzA |
| BB- | kzA-, kzBBB+ |
| B+ | kzBBB, kzBBB- |
| В | kzBB+, kzBB |
| B- | kzBB, kzBB-, kzB+ |
| CCC+ | kzB, kzB- |
| ccc | kzCCC+ |
| CCC- | kzCCC, kzCCC- |
| CC | kzCC |
| С | kzC |
| R | R |
| SD | SD |
| D | D |
| | |

R--Regulatory supervision. SD--Selective default. D--Default.

Table 10

Mexico (CaVal) Mapping Table

| ${\bf Global\text{-}scale\ long\text{-}term\ local\text{-}currency\ rating}$ | National-scale long-term rating | National-scale short-term rating |
|--|---------------------------------|----------------------------------|
| BBB+ and above | mxAAA | mxA-1+ |
| BBB | mxAAA, mxAA+ | mxA-1+ |
| BBB- | mxAA+, mxAA | mxA-1+ |
| BB+ | mxAA | mxA-1+ |
| BB+ | mxAA- | mxA-1+, mxA-1 |
| BB+ | mxA+ | mxA-1 |

Table 10

Mexico (CaVal) Mapping Table (cont.)

| ${\bf Global\text{-}scale\ long\text{-}term\ local\text{-}currency\ rating}$ | National-scale long-term rating | National-scale short-term rating |
|--|---------------------------------|----------------------------------|
| ВВ | mxA+ | mxA-1 |
| ВВ | mxA | mxA-1, mxA-2 |
| BB- | mxA-, mxBBB+ | mxA-2 |
| B+ | mxBBB | mxA-2, mxA-3 |
| B+ | mxBBB- | mxA-3 |
| В | mxBBB- | mxA-3 |
| В | mxBB+ | mxB |
| В- | mxBB+, mxBB, mxBB- | mxB |
| CCC+ | mxB+, mxB, mxB- | mxC |
| ccc | mxB-, mxCCC | mxC |
| CCC- | mxCCC | mxC |
| СС | mxCC | mxC |
| С | mxC | mxC |
| R | R | R |
| SD | SD | SD |
| D | D | D |

R--Regulatory supervision. SD--Selective default. D--Default.

Table 11

Nigeria Mapping Table

| ${\bf Global\text{-}scalelong\text{-}termlocal\text{-}currencyrating}$ | National-scale long-term rating | National-scale short-term rating |
|--|---------------------------------|----------------------------------|
| BB+ and above | ngAAA | ngA-1 |
| ВВ | ngAA+ | ngA-1 |
| BB- | ngAA, ngAA- | ngA-1 |
| B+ | ngA+, ngA, ngA- | ngA-1, ngA-2 |
| В | ngBBB+, ngBBB, ngBBB- | ngA-2, ngA-3 |
| B- | ngBB+, ngBB | ngB |
| CCC+ | ngBB-, ngB+ | ngB |
| ccc | ngB, ngB-, ngCCC+ | ngC |
| CCC- | ngCCC, ngCCC- | ngC |
| CC | ngCC | ngC |
| С | ngC | ngC |
| R | R | R |
| SD | SD | SD |
| D | D | D |
| | | |

R--Regulatory supervision. SD--Selective default. D--Default.

Table 12

Nordic Mapping Table

| Global-scale long-term local-currency rating | Regional-scale short-term rating |
|--|----------------------------------|
| BBB+ and above | K-1 |
| BBB | K-2 |
| BBB- | K-3 |
| BB+ to BB- | K-4 |
| B+ to B- | K-5 |
| CCC+ to C | K-6 |
| SD | SD |
| D | D |
| | |

SD--Selective default. D--Default.

Table 13

Russia Mapping Table

| Global-scale long-term local-currency rating | National-scale long-term rating |
|--|---------------------------------|
| BBB- and above | ruAAA |
| BB+ | ruAA+ |
| ВВ | ruAA |
| BB- | ruAA- |
| B+ | ruA+, ruA |
| В | ruA, ruA-, ruBBB+ |
| B- | ruBBB, ruBBB- |
| CCC+ | ruBB+, ruBB, ruBB- |
| CCC | ruB+, ruB, ruB- |
| CCC- | ruCCC+, ruCCC, ruCCC- |
| CC | ruCC |
| С | ruC |
| R | R |
| SD | SD |
| D | D |
| | |

 $\hbox{R--Regulatory supervision. SD--Selective default. D--Default.}$

Table 14

South Africa Mapping Table

| Global-scale long-term local-currency rating | National-scale long-term rating | National-scale short-term rating |
|--|---------------------------------|----------------------------------|
| BBB- and above | zaAAA | zaA-1+ |
| BB+ | zaAA+, zaAA | zaA-1+ |
| ВВ | zaAA- | zaA-1+ |

Table 14

South Africa Mapping Table (cont.)

| National-scale long-term rating | National-scale short-term rating |
|---------------------------------|---|
| zaA+ | zaA-1 |
| zaA | zaA-1 |
| zaA- | zaA-2 |
| zaBBB+, zaBBB | zaA-2 |
| zaBBB- | zaA-3 |
| zaBB+ | zaB |
| zaBB, zaBB- | zaB |
| zaB+, zaB | zaB |
| zaB- | zaB |
| zaCCC+ | zaC |
| zaCCC, zaCCC- | zaC |
| zaCC | zaC |
| zaC | zaC |
| R | R |
| SD | SD |
| D | D |
| | zaA+ zaA zaA- zaBBB+, zaBBB zaBB- zaBB+ zaBB, zaBB- zaB+, zaB zaB- zaCCC+ zaCCC, zaCCC- zaCC R SD |

R--Regulatory supervision. SD--Selective default. D--Default.

Table 15

Taiwan Mapping Table

| ${\bf Global\text{-}scale\ long\text{-}term\ local\text{-}currency\ rating}$ | National-scale long-term rating | National-scale short-term rating |
|--|---------------------------------|----------------------------------|
| A+ and above | twAAA | twA-1+ |
| A | twAAA, twAA+ | twA-1+ |
| A- | twAA+, twAA | twA-1+ |
| BBB+ | twAA | twA-1+ |
| BBB+ | twAA- | twA-1+, twA-1 |
| BBB | twAA- | twA-1+, twA-1 |
| BBB | twA+ | twA-1 |
| BBB- | twA+ | twA-1 |
| BBB- | twA | twA-1, twA-2 |
| BB+ | twA | twA-1, twA-2 |
| BB+ | twA- | twA-2 |
| BB+ | twBBB+ | twA-2, twA-3 |
| ВВ | twBBB+ | twA-2, twA-3 |
| ВВ | twBBB | twA-3 |
| BB- | twBBB, twBBB- | twA-3 |
| | | |

Table 15

Taiwan Mapping Table (cont.)

| ${\bf Global\text{-}scale\ long\text{-}term\ local\text{-}currency\ rating}$ | National-scale long-term rating | National-scale short-term rating |
|--|---------------------------------|----------------------------------|
| B+ | twBBB- | twA-3 |
| B+ | twBB+, twBB | twB |
| В | twBB, twBB-, twB+ | twB |
| B- | twB+, twB | twB |
| B- | twB- | twB, twC |
| CCC+ | twCCC+ | twC |
| ccc | twCCC | twC |
| CCC- | twCCC- | twC |
| CC | twCC | twC |
| С | twC | twC |
| R | R | R |
| SD | SD | SD |
| D | D | D |

R--Regulatory supervision. SD--Selective default. D--Default.

Table 16

Turkey Mapping Table

| Global-scale long-term local-currency rating | National-scale long-term rating | National-scale short-term rating |
|--|---------------------------------|----------------------------------|
| BBB- and above | trAAA | trA-1 |
| BB+ | trAA+ | trA-1 |
| ВВ | trAA, trAA- | trA-1 |
| BB- | trA+, trA | trA-1 |
| B+ | trA-, trBBB+ | trA-2 |
| В | trBBB, trBBB- | trA-3 |
| В- | trBB+, trBB | trB |
| CCC+ | trBB-, trB+ | trB |
| ccc | trB, trB-, trCCC+ | trC |
| CCC- | trCCC, trCCC- | trC |
| CC | trCC | trC |
| С | trC | trC |
| R | R | R |
| SD | SD | SD |
| D | D | D |
| | | |

R--Regulatory supervision. SD--Selective default. D--Default.

Table 17

Ukraine Mapping Table

 ${\bf Global\text{-}scale\ long\text{-}term\ local\text{-}currency\ rating}\quad {\bf National\text{-}scale\ long\text{-}term\ rating}$ BB and above uaAAA BBuaAA+, uaAA В+ uaAA-, uaA+ В uaA, uaA-, uaBBB+ BuaBBB, uaBBB-, uaBB+ CCC+ uaBB, uaBB-, uaB+, uaB CCC uaB-, uaCCC+, uaCCC CCCuaCCC-CC uaCC С uaC R R SD SD D D

R--Regulatory supervision. SD--Selective default. D--Default.

Table 18

Uruguay Mapping Table

| Global-scale long-term local-currency rating | National-scale long-term rating |
|--|---------------------------------|
| BBB- and above | uyAAA |
| BB+ | uyAAA, uyAA+ |
| ВВ | uyAA, uyAA- |
| BB- | uyA+, uyA, uyA- |
| B+ | uyBBB+, uyBBB, uyBBB- |
| В | uyBB+, uyBB, uyBB- |
| B- | uyB+, uyB, uyB- |
| CCC+ | uyCCC+ |
| ccc | uyCCC |
| CCC- | uyCCC- |
| cc | uyCC |
| С | uyC |
| R | R |
| SD | SD |
| D | D |

R--Regulatory supervision. SD--Selective default. D--Default.

APPFNDIX

Summary Of Changes To The Mapping Tables

- This update follows our "Request for Comment: Brazil National Scale Mapping," published on July 13, 2017. We have adopted the proposed Brazil mapping without changes.
- On July 27, 2017, we updated this article to incorporate changes to the South Africa mapping table, following our "Request for Comment: South Africa National Scale Mapping Table," published on June 9, 2017. We adopted the proposed mapping for long-term ratings and we modified the short-term rating by introducing the 'zaA-1+' rating, to create greater differentiation at the top end of the table.
- On June 1, 2016, we updated this article to incorporate the Chile national scale mapping table, as proposed in "Request For Comment: Chile National Scale Mapping Table," published April 12, 2016, on RatingsDirect. We did not make any changes from our proposal.

RELATED CRITERIA

- Methodology For Linking Long-Term And Short-Term Ratings, April 7, 2017
- S&P Global Ratings Definitions, June 26, 2017
- National And Regional Scale Credit Ratings, Sept. 22, 2014
- Methodology For Applying Recovery Ratings To National Scale Issue Ratings, Sept. 22, 2014
- Standard & Poor's Maalot (Israel) National Scale: Methodology For Nonfinancial Corporate Issue Ratings, Sept. 22, 2014
- Principles Of Credit Ratings, Feb. 16, 2011

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