

30th November 2021

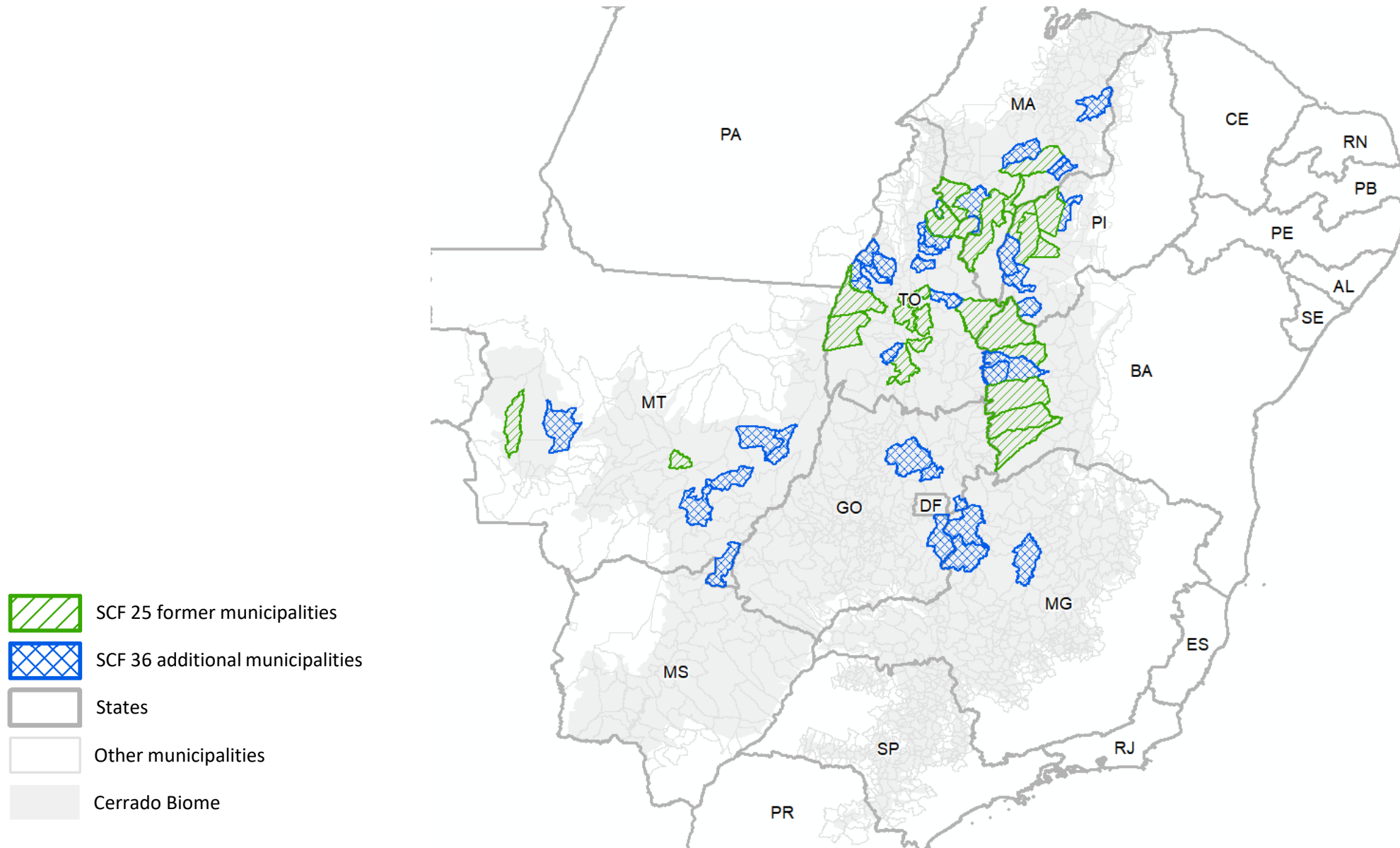
CERRADO SOY DYNAMICS ON THE SCF 61 FOCUS MUNICIPALITIES UPDATED FOR CROP YEAR 2020/21 vs. PRODES 2014-2020

Accomplished by:



agrosatélite

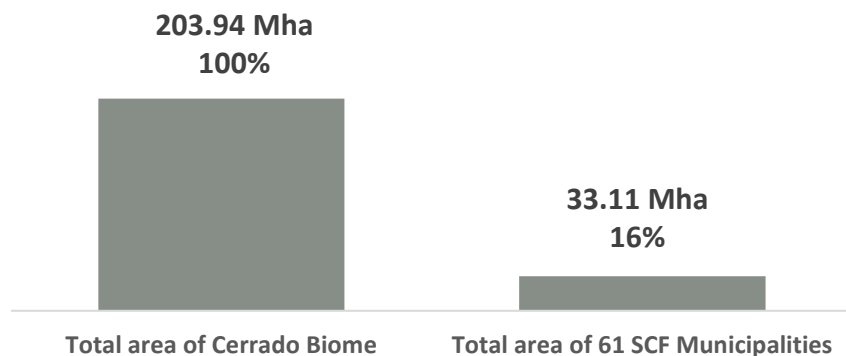
STUDY AREA | 61 Municipalities (25 + 36)



SUMMARY OF THE RESULTS | 2020/21

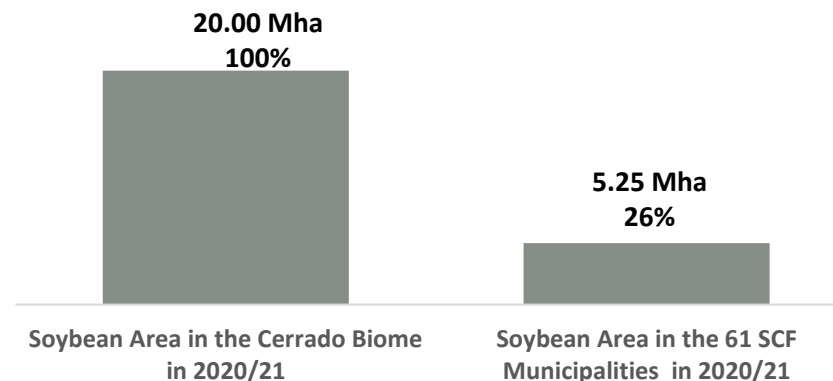
a) Study Area

The territory of the Cerrado biome is 203.94 million hectares, while the area occupied by the 61 SCF municipalities is 33.11 million hectares corresponding 16% of the biome



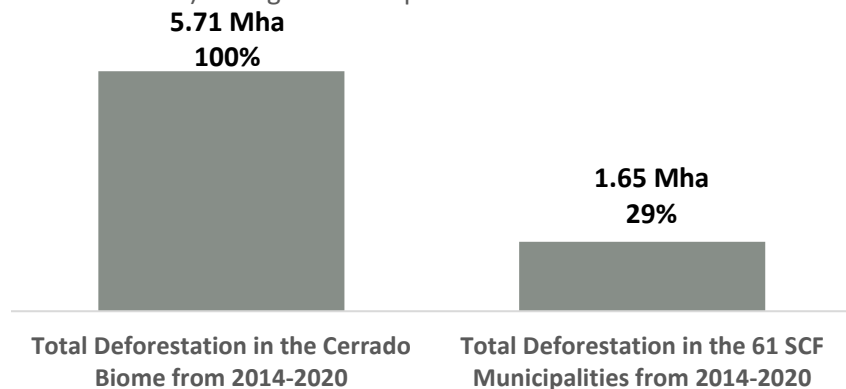
b) Soy in crop year 2020/21

The soy planted area in the Cerrado in crop year 2020/21 was 20.00 million hectares, with 5.25 million hectares of soy (26%) planted in the 61 SCF municipalities



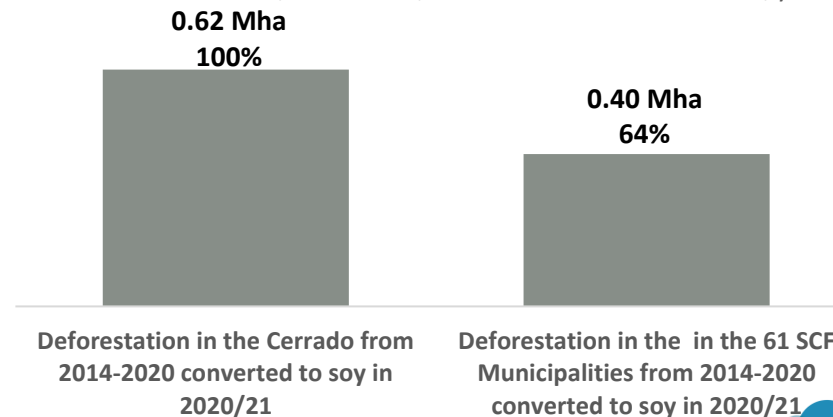
c) Deforestation (PRODES 2014-2020)

In the Cerrado biome the total deforestation, from 2014 to 2020, was 5.71 million hectares, while in the 61 SCF municipalities it was 1.65 million hectares (29% of Cerrado's deforestation) during the same period



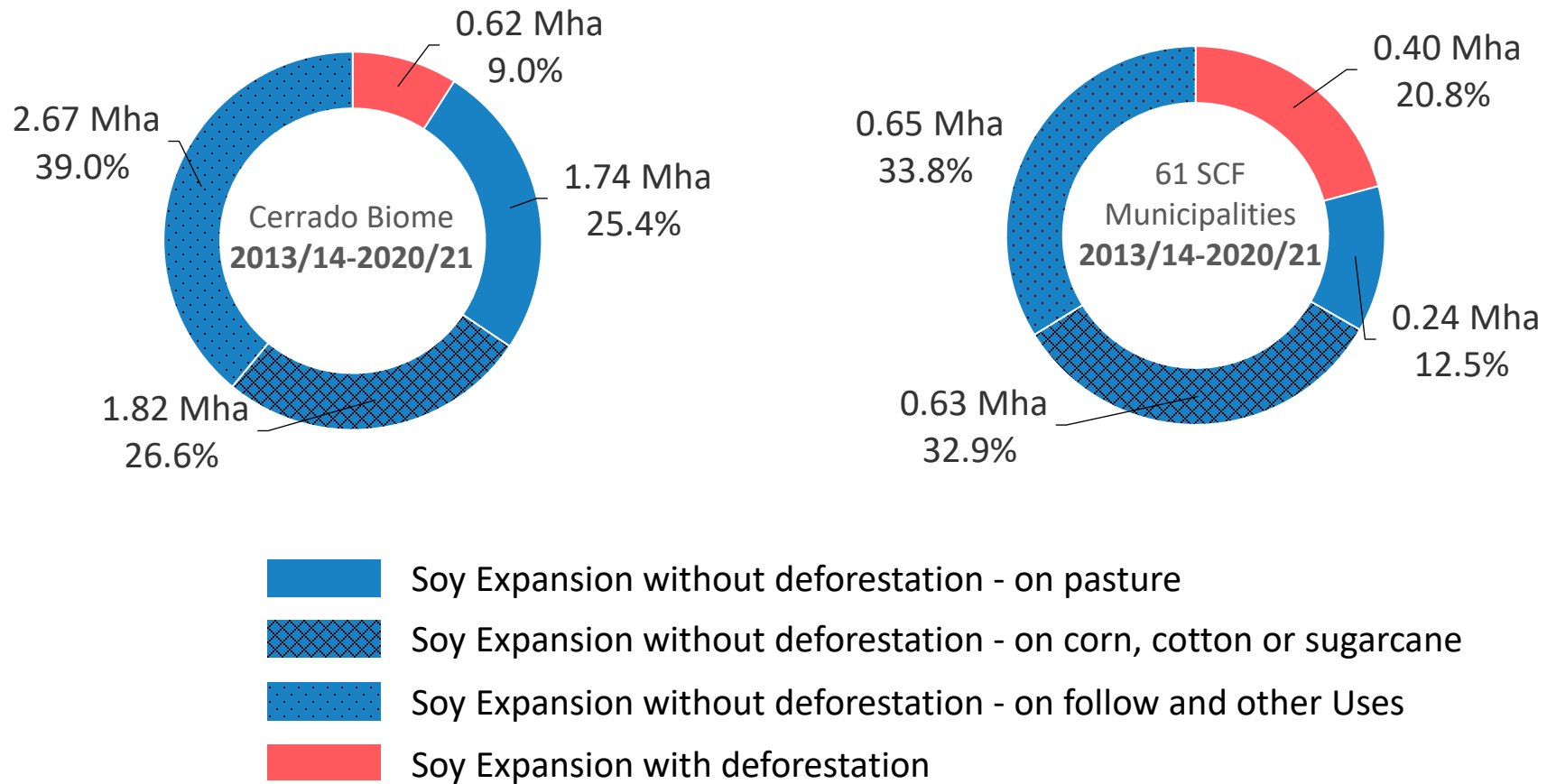
d) Deforestation (PRODES 2014-2020) converted to soy

The amount of soy in crop year 2020/21 on top of the deforestation observed from 2014 to 2020 was 0.62 million hectares in the Cerrado and 0.40 million hectares in the 61 SCF municipalities (64% of Cerrado's native vegetation conversion to soy). From 2006/07 to 2013/14, NVC rate to soy was 0.19 Mha/yr, while from 2013/14 to 2020/21 it decreased to 0.09 Mha/yr in the Cerrado.

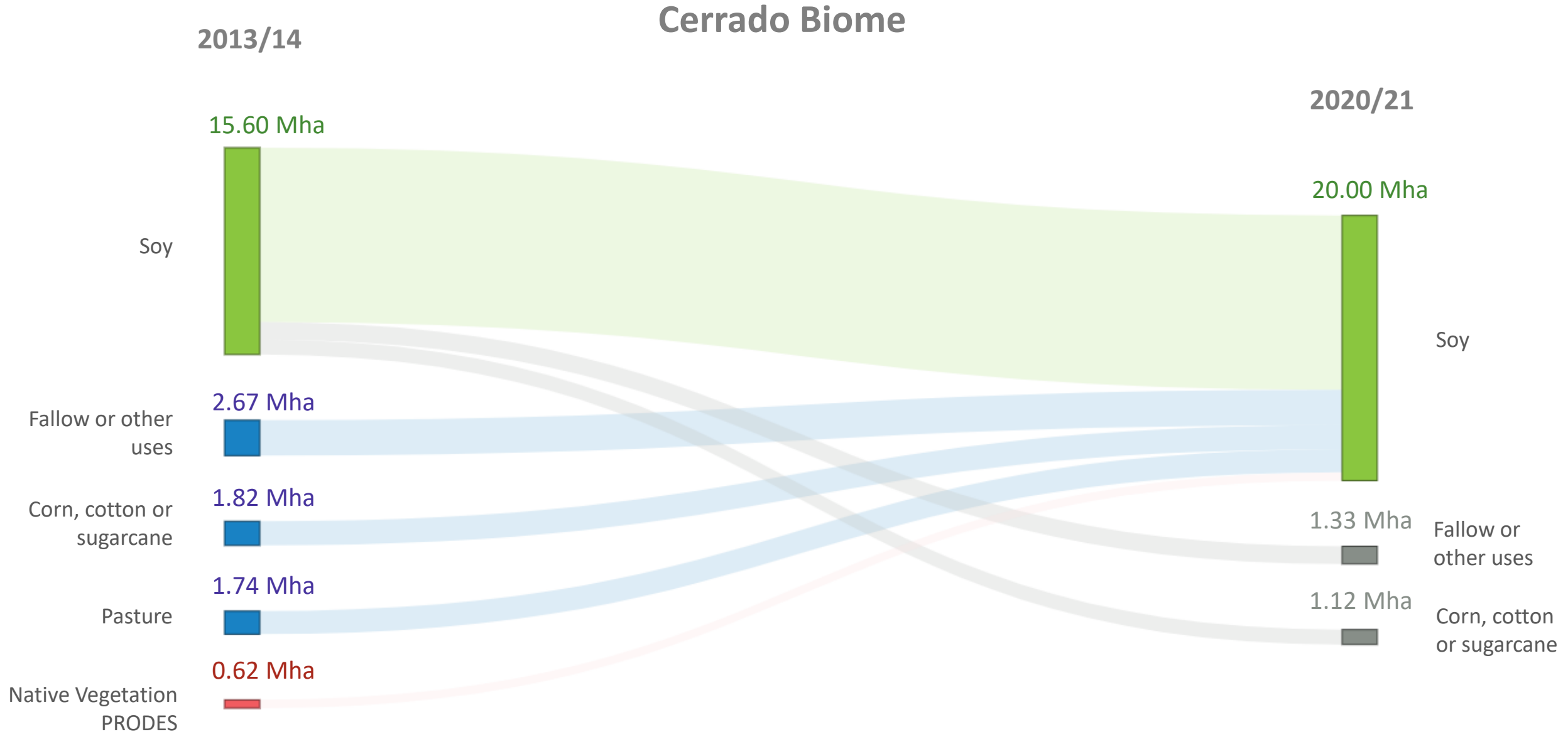


SOYBEAN EXPANSION ON LAND OTHER THAN SOY | From 2013/14 to 2020/21

Area (Mha)



Soybean expansion from crop years 2013/14 to 2020/21 and associated land use changes



Soybean expansion from crop years 2013/14 to 2020/21 and associated land use changes

Cerrado Biome without 61 SCF municipalities

2013/14

2020/21

11.56 Mha

14.75 Mha

Soy

Soy

Fallow or other uses

2.03 Mha

1.08 Mha

Fallow or other uses

Pasture

1.50 Mha

Corn, cotton or sugarcane

1.19 Mha

0.67 Mha

Corn, cotton or sugarcane

Native Vegetation PRODES

0.22 Mha

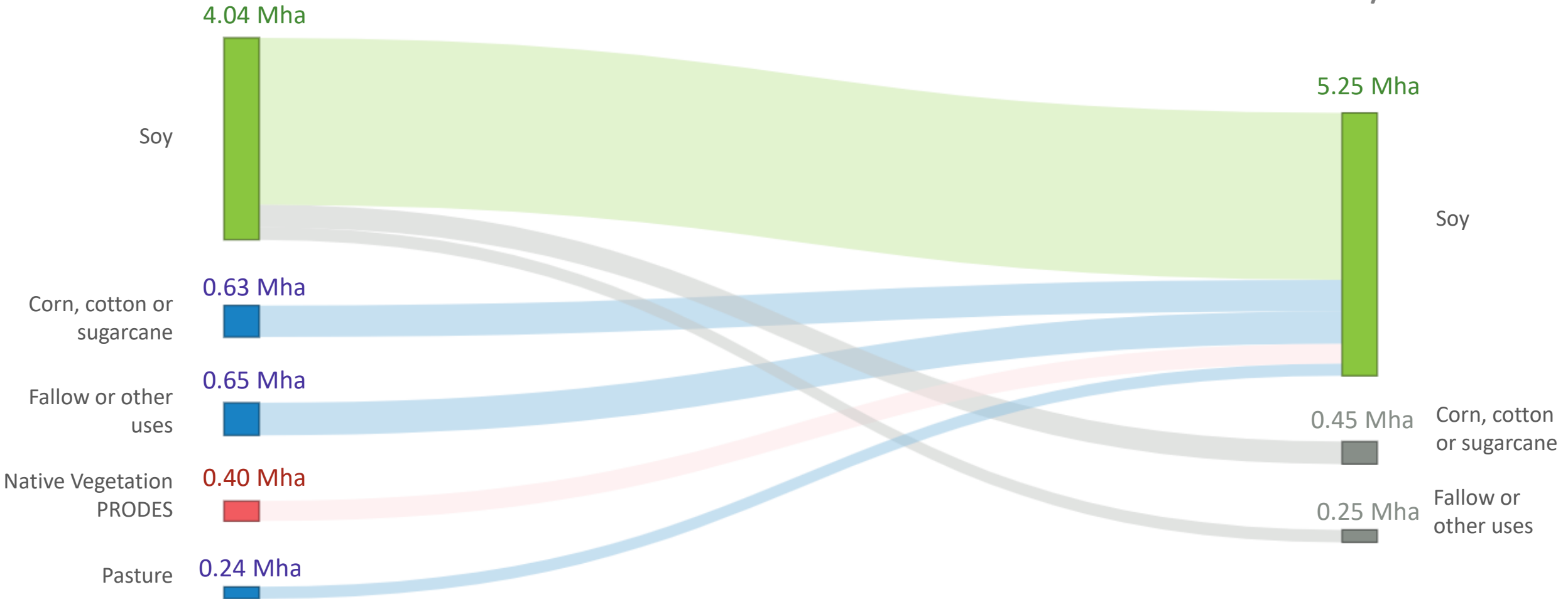


Soybean expansion from crop years 2013/14 to 2020/21 and associated land use changes

61 SCF municipalities

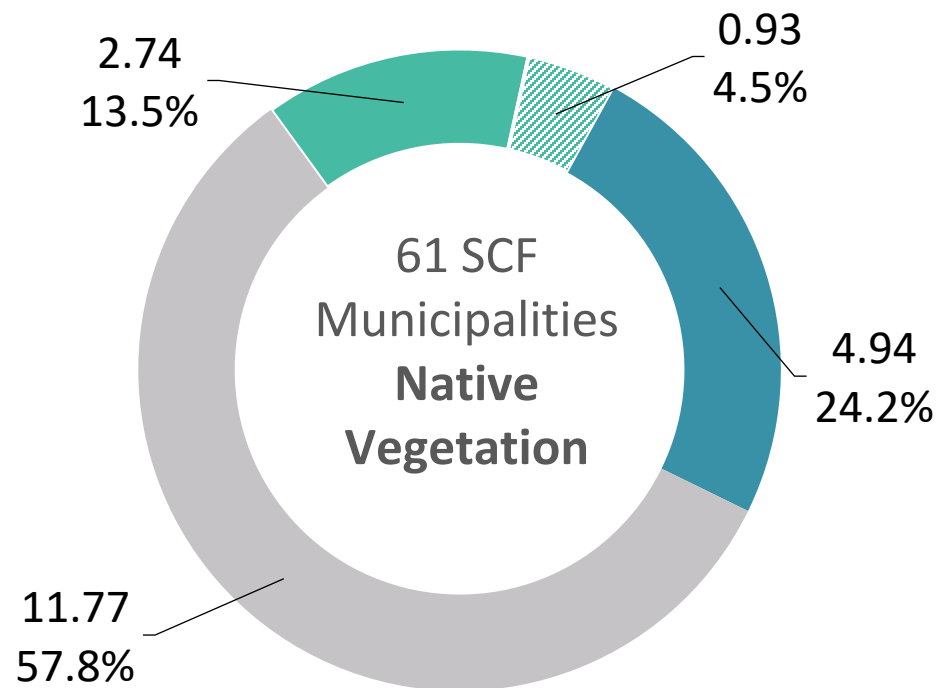
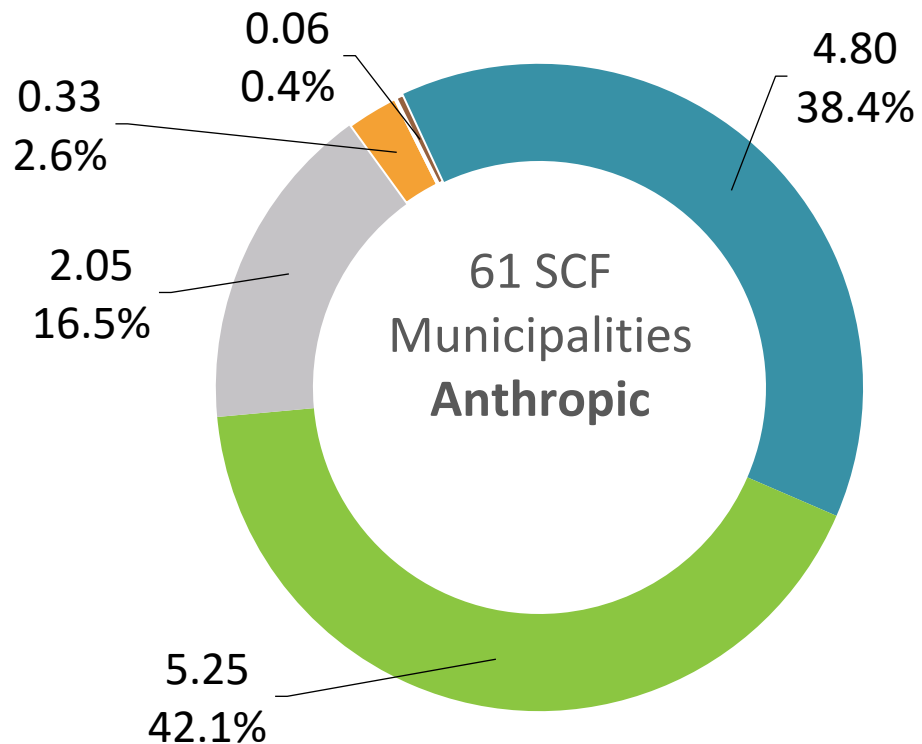
2013/14

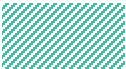
2020/21





AGRICULTURAL APTITUDE FOR SOY EXPANSION IN SCF MUNICIPALITIES


Area (Mha)




 Native Vegetation: With aptitude in TI, UC (exception APA) and Q - not available


 Anthropogenic: With aptitude in APP and RL - to recover

 With aptitude - available

 Native Vegetation: With aptitude in APP and RL - not available

 Anthropogenic: With aptitude in TI, UC (exception APA) and Q - residual areas

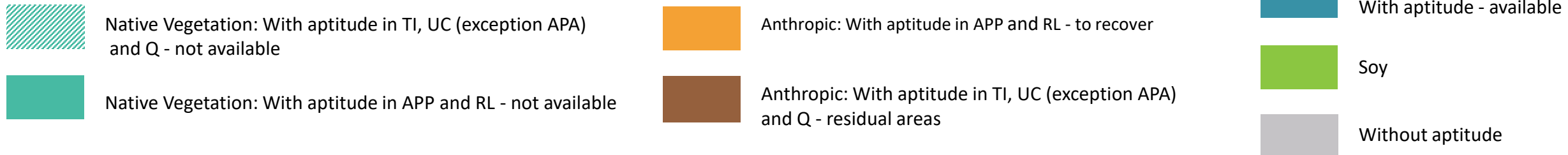
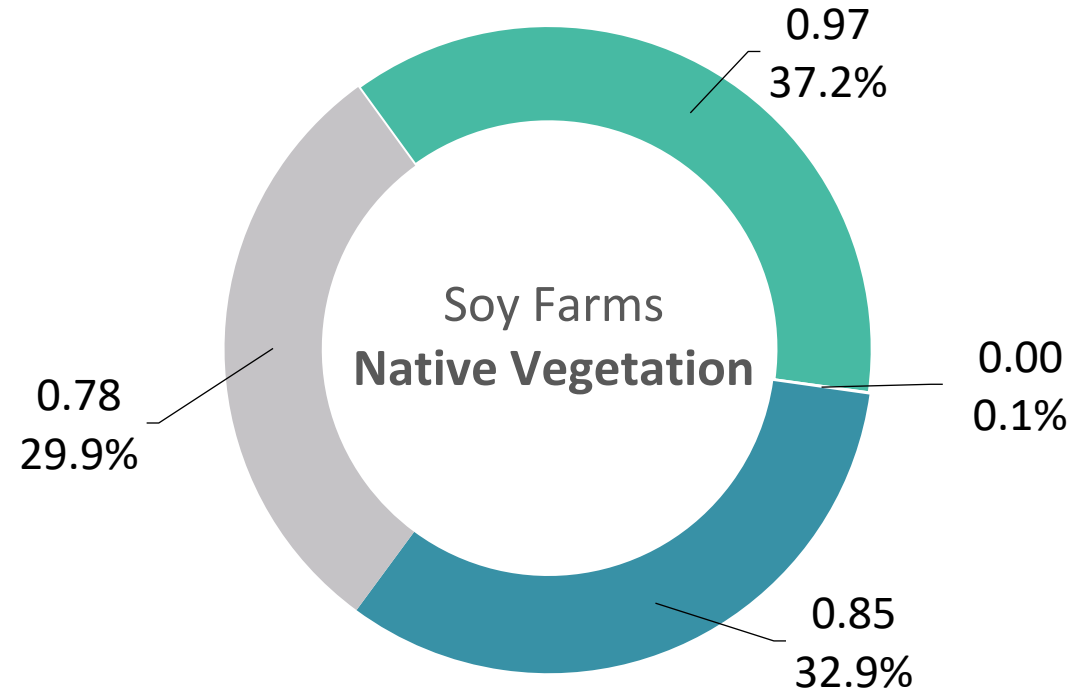
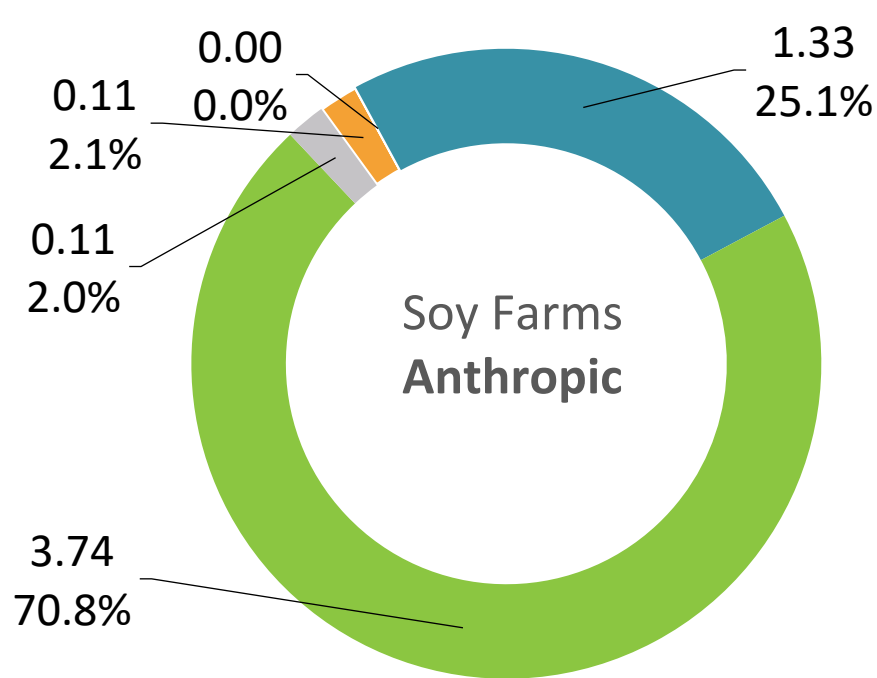
 Soy

 Without aptitude

APP – Areas of Permanent Protection; RL – Legal Reserve; TI – Indigenous Land; UC – Conservation Units; APA – Area of Environmental Protection; Q - Quilombolas

AGRICULTURAL APTITUDE FOR SOY EXPANSION IN SCF MUNICIPALITIES: ONLY FOR SOY FARMS

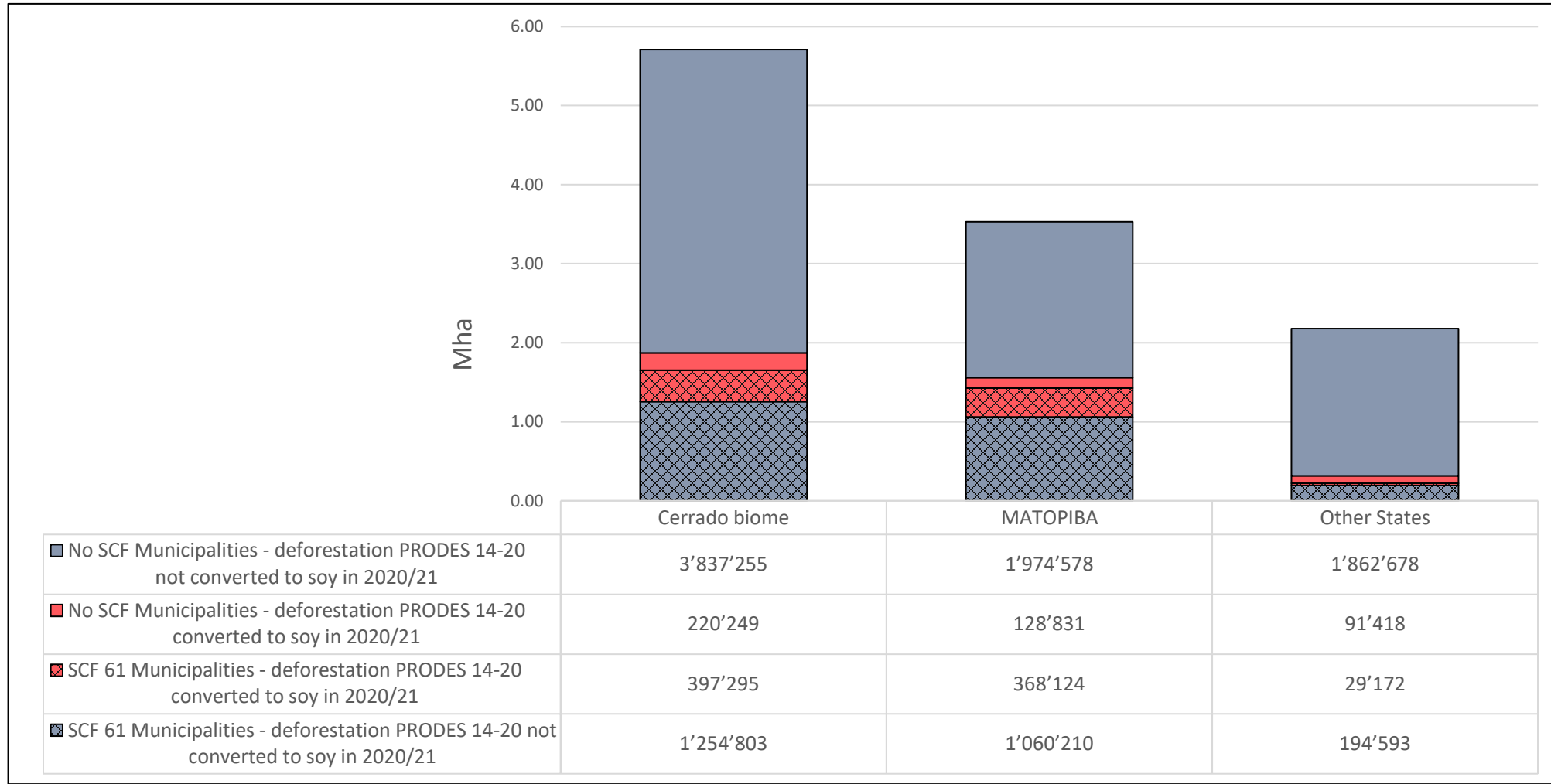
Area (Mha)



APP – Areas of Permanent Protection; RL – Legal Reserve; TI – Indigenous Land; UC – Conservation Units; APA – Area of Environmental Protection; Q - Quilombolas

SOYBEAN OF CROP YEAR 2020/21 ON TOP OF NATIVE VEGETATION | PRODES 2014-2020

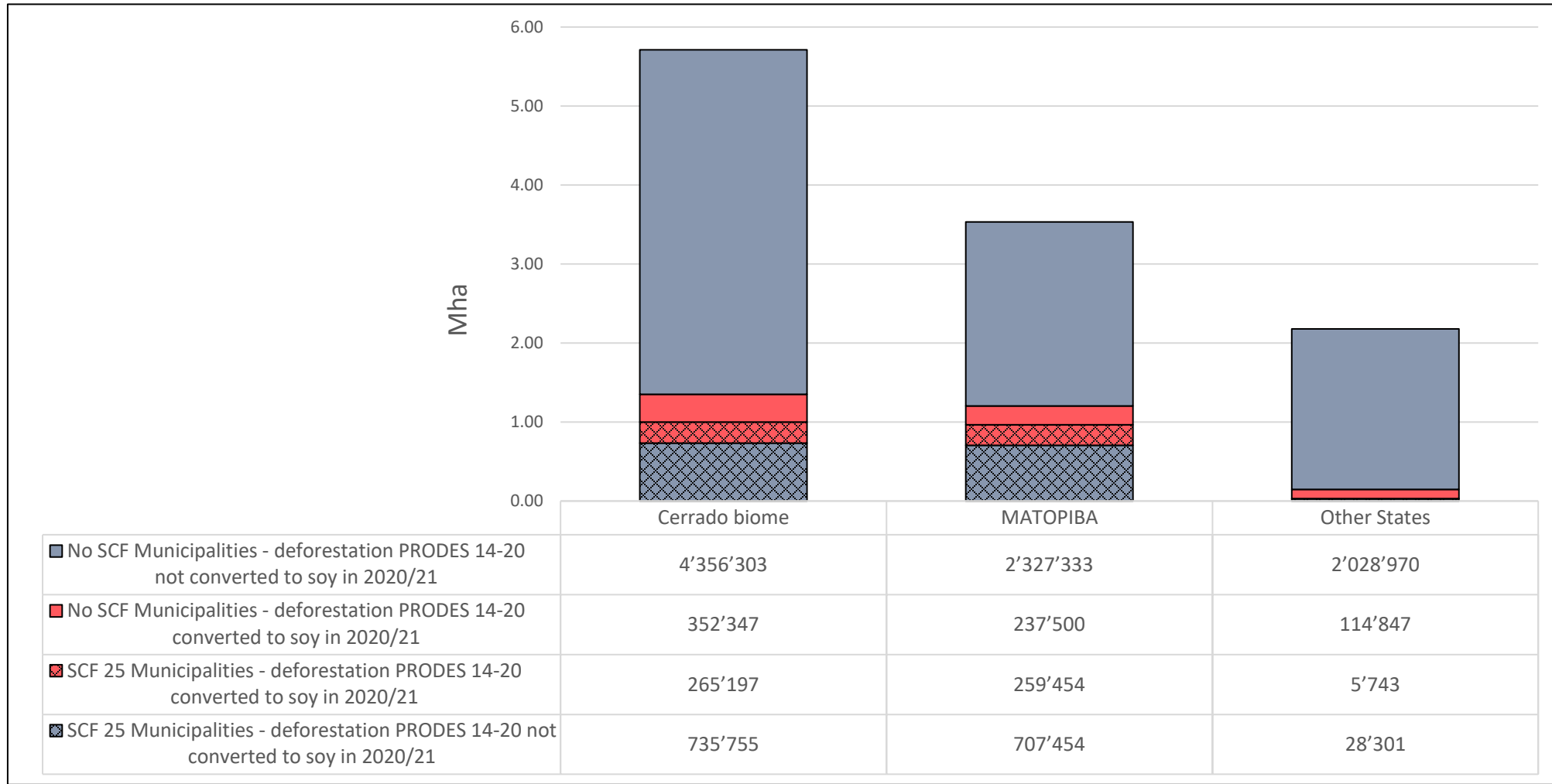
CERRADO, MATOPIBA and Other States vs. 61 SCF Municipalities



In the 61 SCF municipalities of the Cerrado Biome a total of 397,295 hectares of soy in 2020/21 (93% of it within the MATOPIBA) were on top of native vegetation deforested from 2014 to 2020 (7 years); in **no** SCF municipalities a total of 220,249 hectares of soy in crop year 2020/21 were on top of native vegetation deforested from 2014 to 2020.

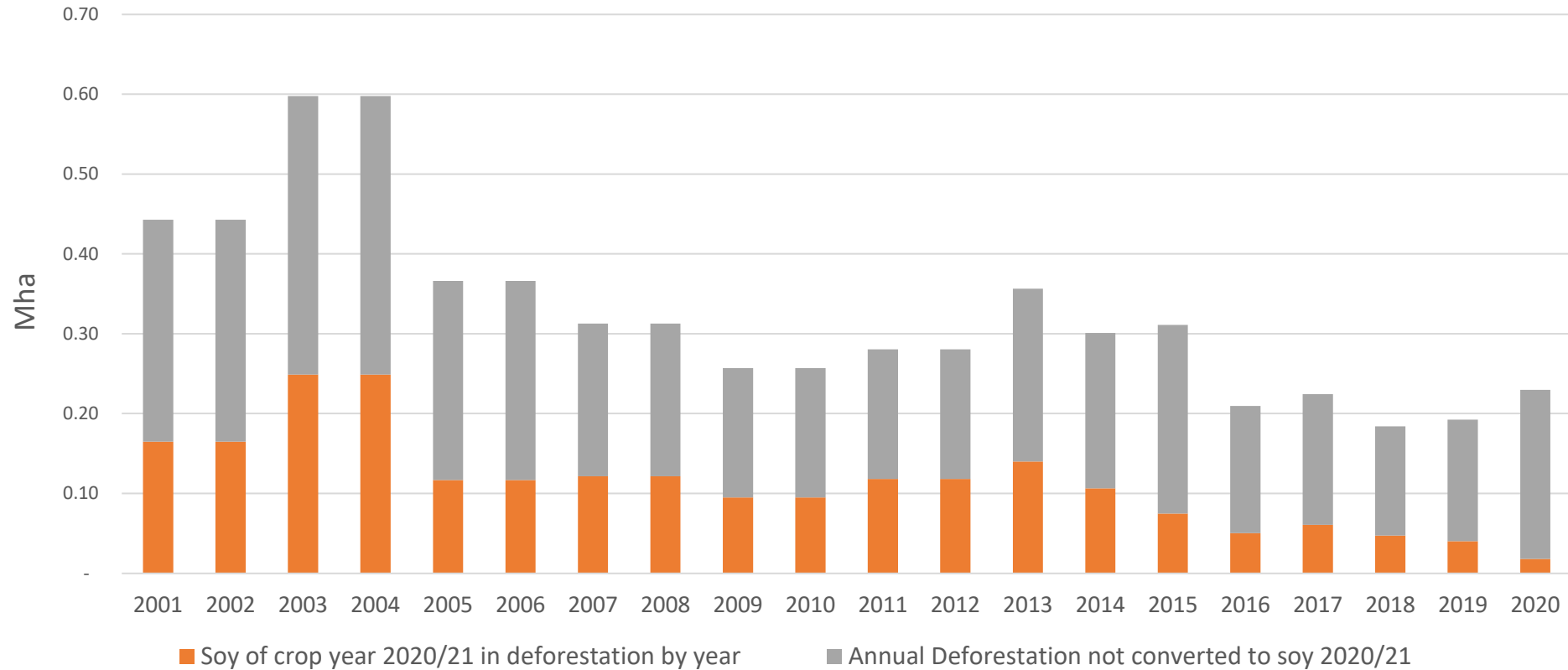
SOYBEAN OF CROP YEAR 2020/21 ON TOP OF NATIVE VEGETATION | PRODES 2014-2020

CERRADO, MATOPIBA and Other States vs. 25 SCF Municipalities



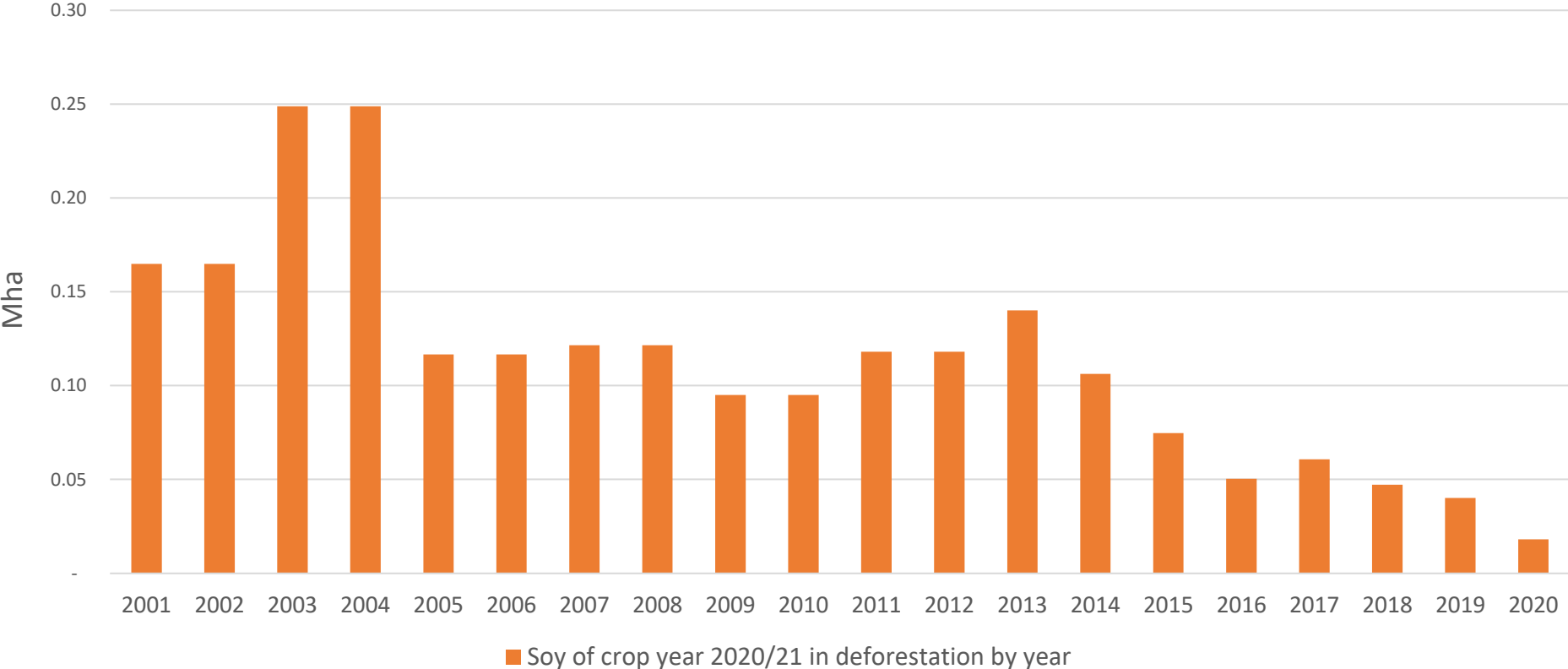
In the 25 SCF municipalities of the Cerrado Biome a total of 265,197 hectares of soy in 2020/21 (98% of it within the MATOPIBA) were on top of native vegetation deforested from 2014 to 2020 (7 years); in **no** SCF municipalities a total of 352,347 hectares of soy in crop year 2020/21 were on top of native vegetation deforested from 2014 to 2020.

61 SCF Municipalities



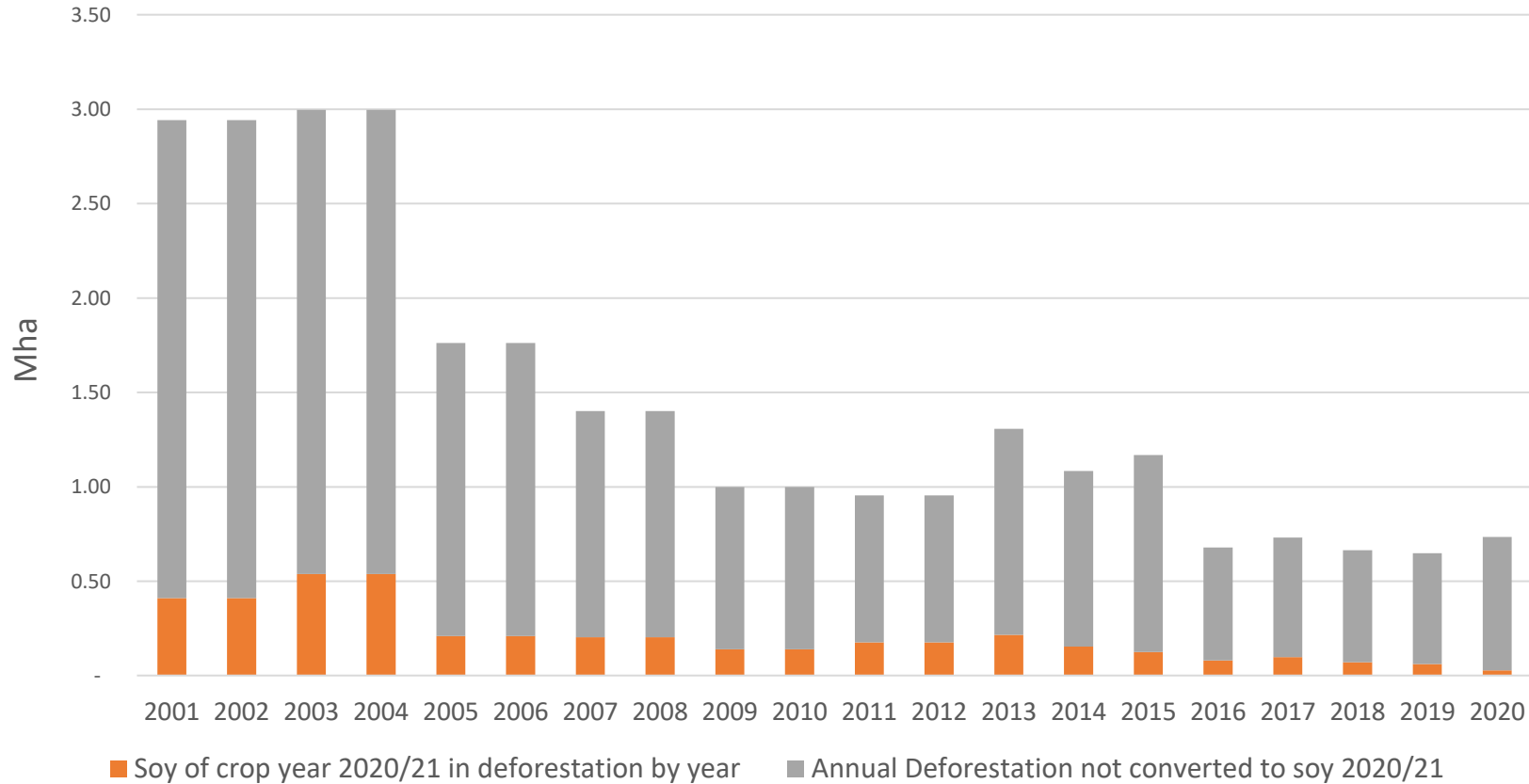
56.8% (2.98 million hectares) of soy in crop year 2020/21 was planted on land deforested prior to 2001

61 SCF Municipalities



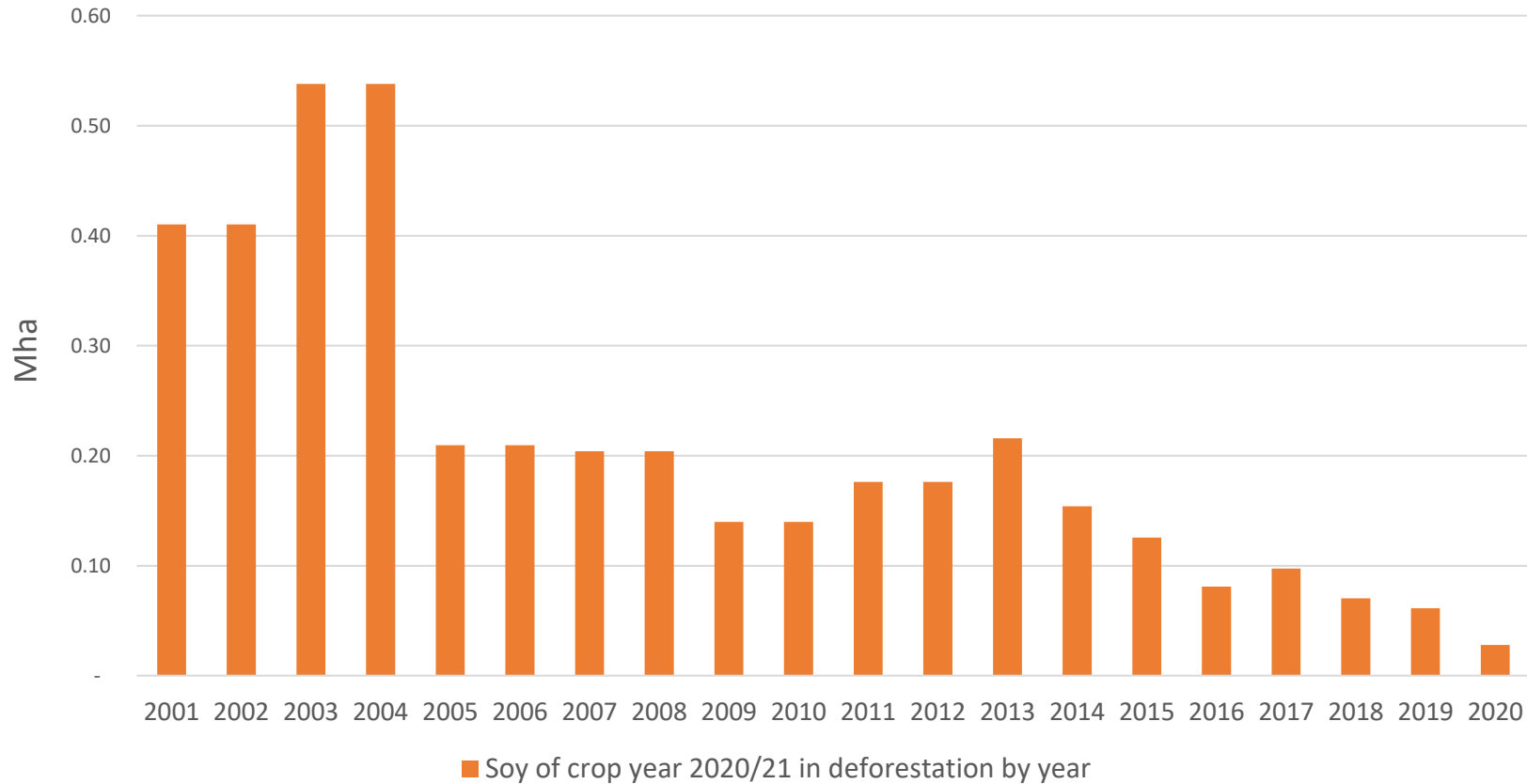
56.8% (2.98 million hectares) of soy in crop year 2020/21 was planted on land deforested prior to 2001

Cerrado Biome



79.1% (15.81 million hectares) of soy in crop year 2020/21 was planted on land deforested prior to 2001

Cerrado Biome



79.1% (15.81 million hectares) of soy in crop year 2020/21 was planted on land deforested prior to 2001

Differences observed from crop year 2019/20 to 2020/21

1) In terms of soy area:

- a) it increased by 1.17 Mha in the Cerrado with 0.35 Mha in the 61 SCF municipalities;
- b) the relative soy area increase in the Cerrado was 6.20% while in the 61 SCF municipalities it was 7.06%;

2) In terms of deforestation:

- a) it increased by 0.83 Mha in the Cerrado with 0.23 Mha in the 61 SCF municipalities;

3) In terms of NVC to soy:

- a) it increased by 0.14 Mha in the Cerrado with 0.09 Mha in the 61 SCF municipalities. From 2013/14 to 2019/20 the average NVC rate to soy was 0.08 Mha/yr in the Cerrado. However, for the period of 2013/14 to 2020/21 it increased to 0.09 Mha/yr due to the 0.14 Mha of NVC to soy observed in crop year 2020/21.

46 municipalities out of the 61 SCF municipalities are in the MATOPIBA region and they were responsible for 65.6% (89,755 ha) of the total NVC to soy in the Cerrado (136,910 ha) observed in crop year 2020/21. The remaining 15 SCF municipalities located in the Other States region were responsible for only 0,7% (1,003 ha) of the total NVC to soy in the Cerrado observed in crop year 2020/21; therefore, they were not relevant in terms of NVC to soy, in crop year 2020/21. In the remaining municipalities (no SCF municipalities) the NVC to soy was 23.1% (31,665 ha) in the MATOPIBA region and 10.6% (14,487 ha) in the Other States.

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