

3rd November 2022

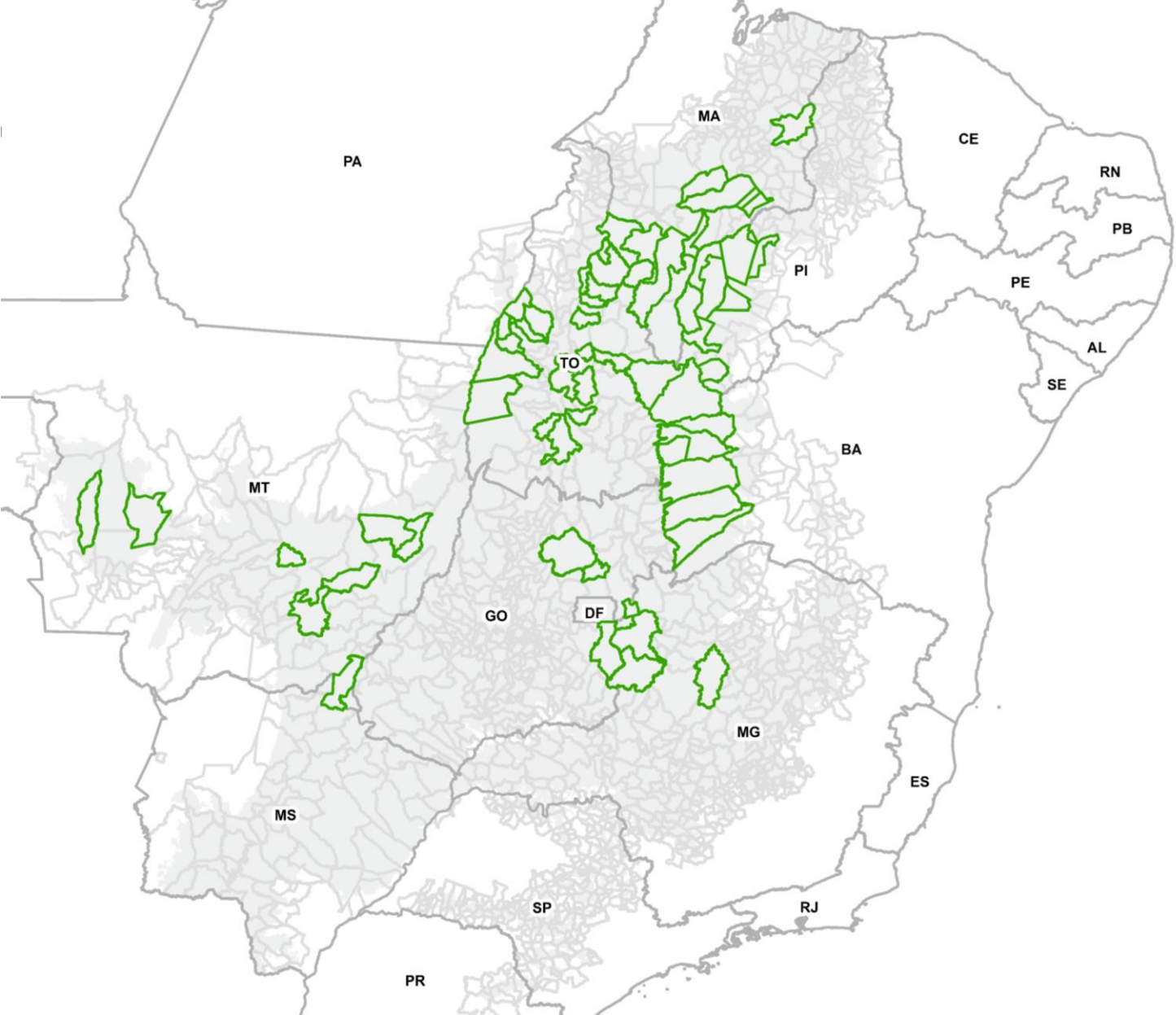
CERRADO SOY DYNAMICS WITH FOCUS ON THE 61 PRIORITY MUNICIPALITIES UPDATED FOR CROP YEAR 2021/22 vs. PRODES 2014-2021




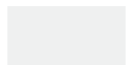
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STUDY AREA | 61 Municipalities

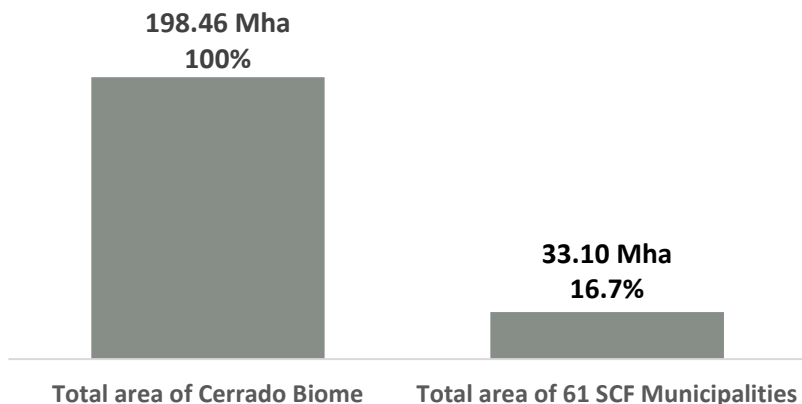


-  SCF 61 municipalities
-  States
-  Other municipalities
-  Cerrado Biome – IBGE 2019

SUMMARY OF THE RESULTS | 2021/22

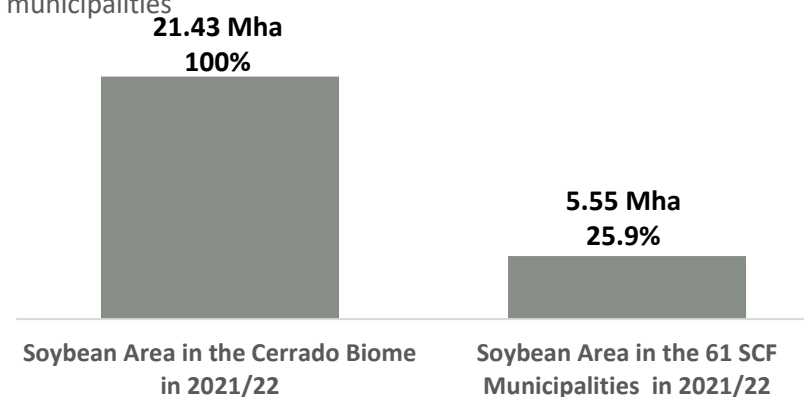
a) Study Area

The territory of the Cerrado biome is 198.46 million hectares, while the area occupied by the 61 SCF municipalities is 33.10 million hectares corresponding 16.7% of the biome



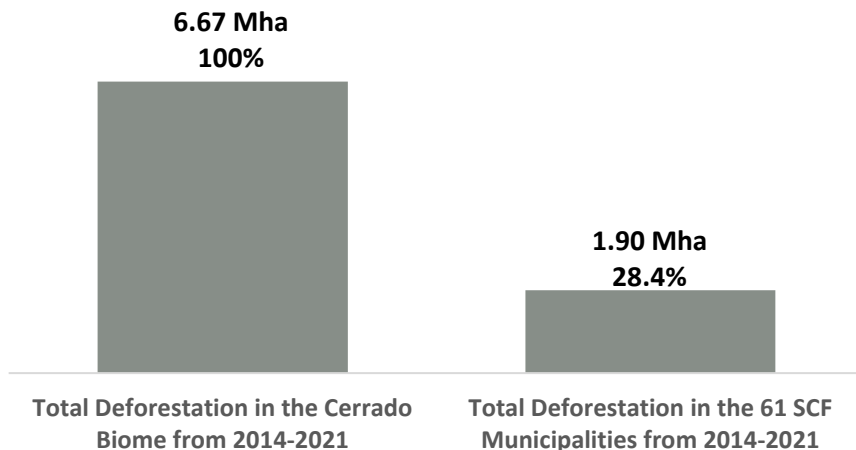
b) Soy in crop year 2021/22

The soy planted area in the Cerrado in crop year 2021/22 was 21.43 million hectares, with 5.55 million hectares of soy (25.9%) planted in the 61 SCF municipalities



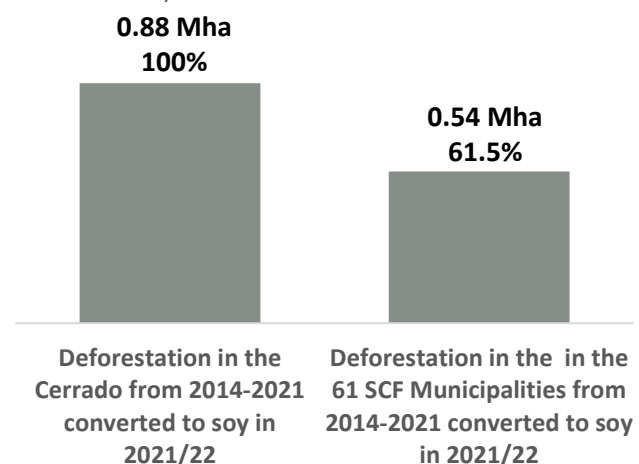
c) Deforestation (PRODES 2014-2021)

In the Cerrado biome the total deforestation, from 2014 to 2021, was 6.67 million hectares, while in the 61 SCF municipalities it was 1.90 million hectares (28% of Cerrado's deforestation) during the same period



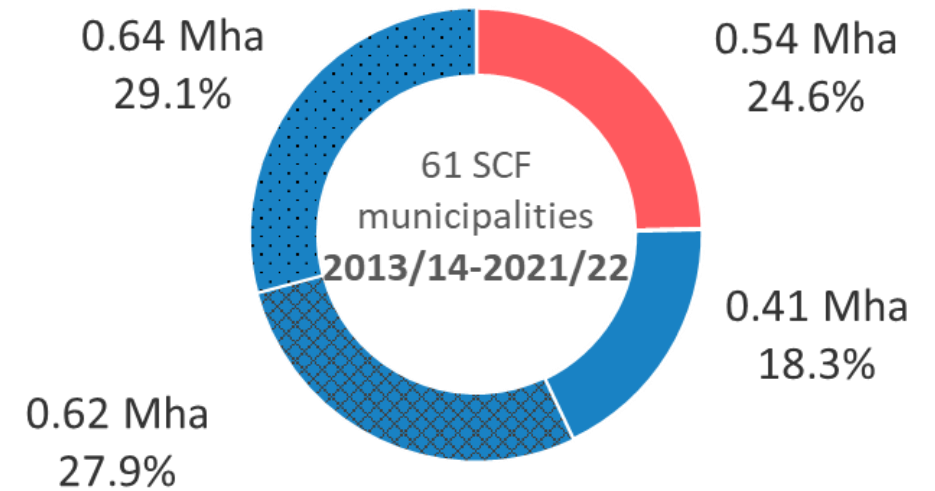
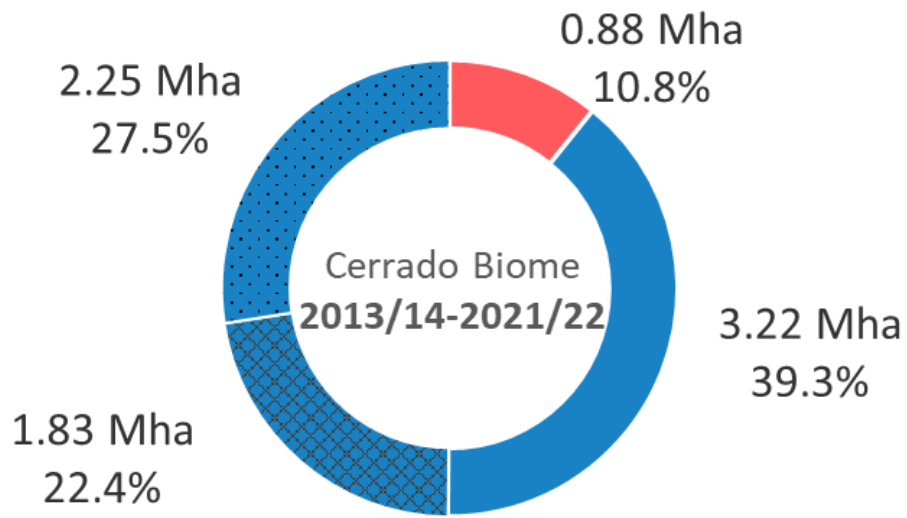
d) Deforestation (PRODES 2014-2021) converted to soy

The amount of soy in crop year 2021/22 on top of the deforestation observed from 2014 to 2021 was 0.884 million hectares in the Cerrado and 0.543 million hectares in the 61 SCF municipalities (61.5% of the native vegetation converted to soy in the Cerrado).



SOYBEAN EXPANSION ON LAND OTHER THAN SOY | From 2013/14 to 2021/22

Area (Mha)



- Soy Expansion without deforestation - on pasture
- Soy Expansion without deforestation - on corn, cotton or sugarcane
- Soy Expansion without deforestation - on follow and other Uses
- Soy Expansion with deforestation

Soybean expansion from crop years 2013/14 to 2021/22 and associated land use changes

2013/14

Cerrado Biome

2021/22

15.54 Mha

21.43 Mha

Soy

Soy

3.22 Mha

Pasture

2.25 Mha

Fallow or other
uses

1.83 Mha

Corn, cotton or
sugarcane

0.88 Mha

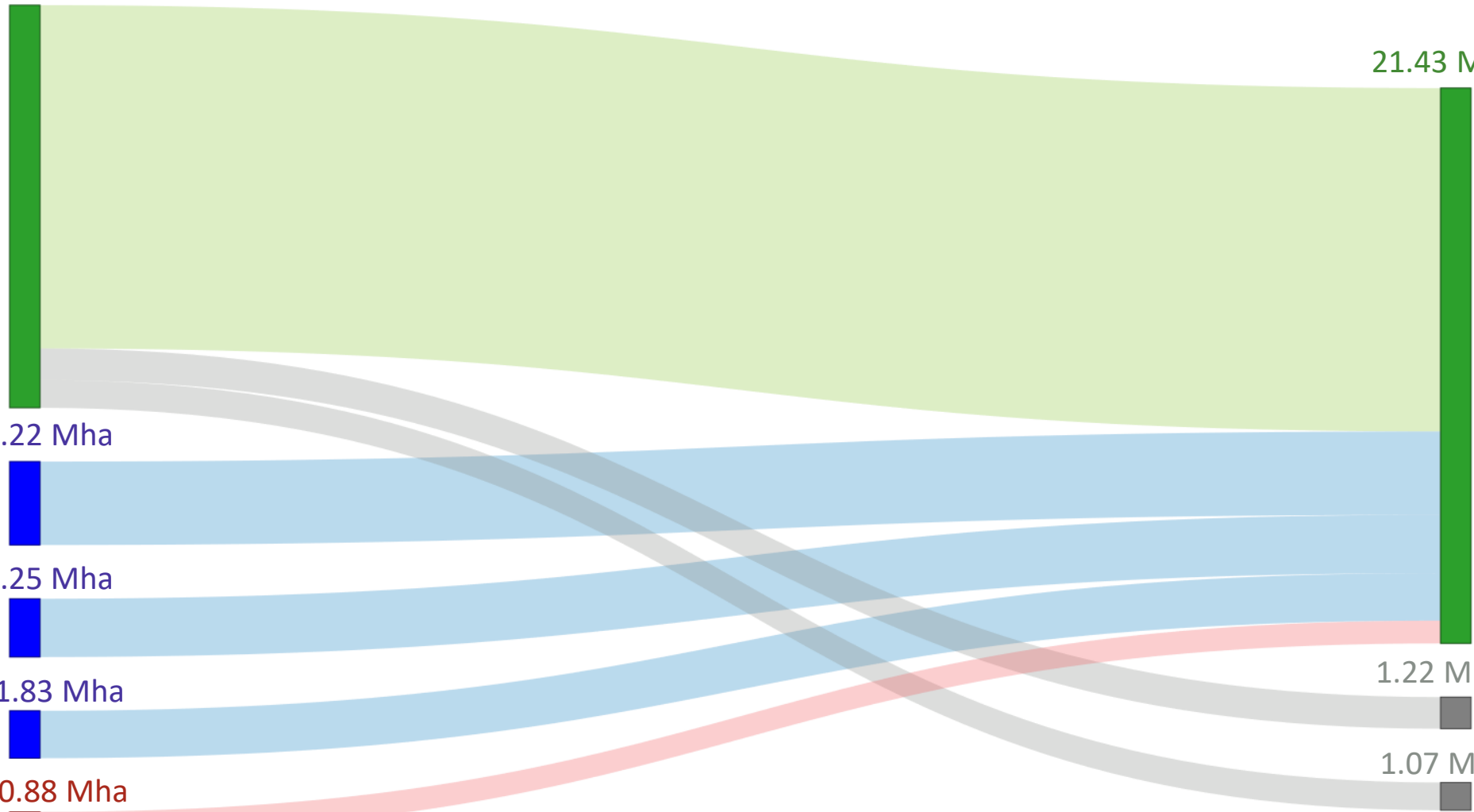
Native Vegetation
PRODES

1.22 Mha

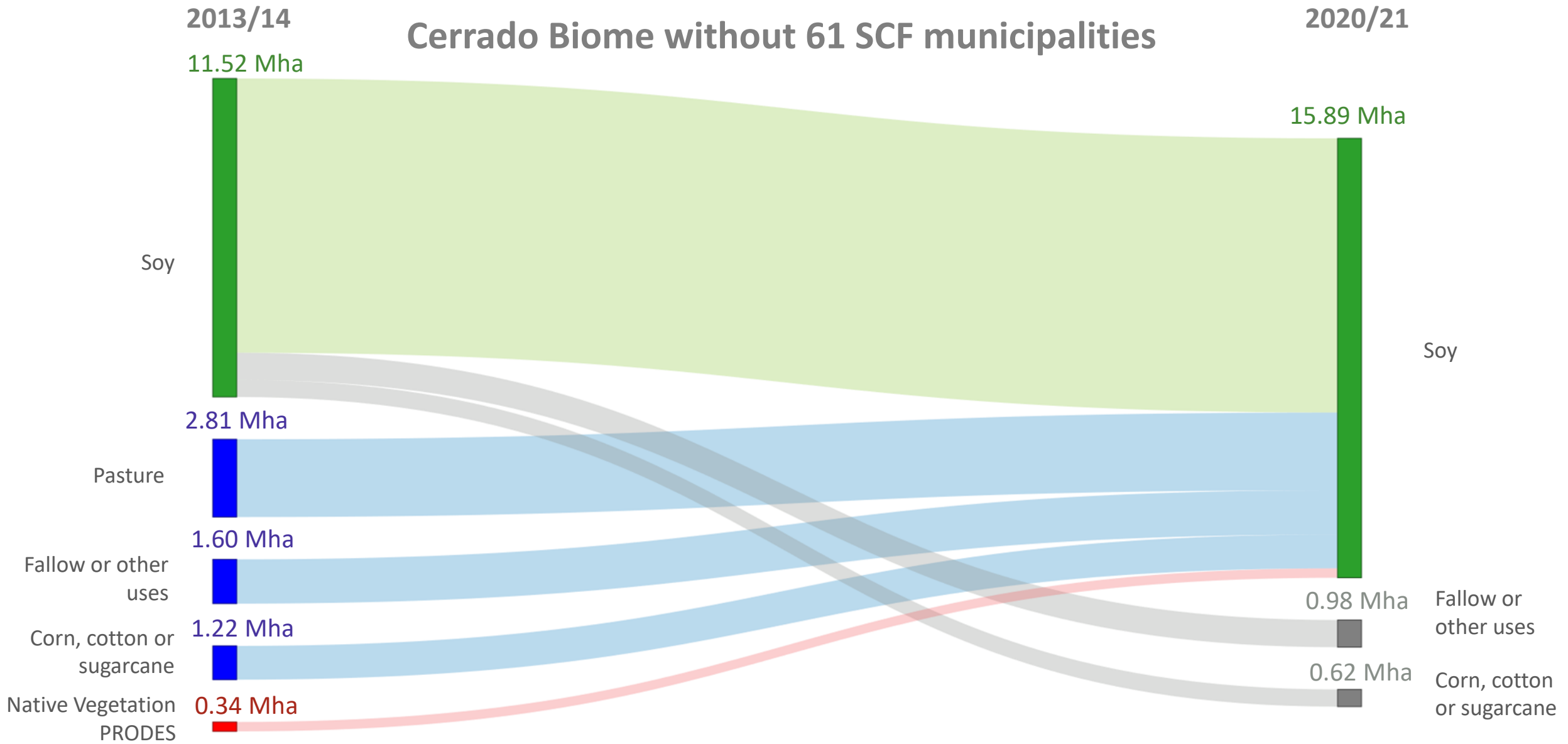
Fallow or
other uses

1.07 Mha

Corn, cotton
or sugarcane



Soybean expansion from crop years 2013/14 to 2021/22 and associated land use changes



Soybean expansion from crop years 2013/14 to 2021/22 and associated land use changes

2013/14

61 SCF municipalities

2020/21

4.02 Mha

5.55 Mha

Soy

Soy

0.64 Mha
Fallow or other
uses

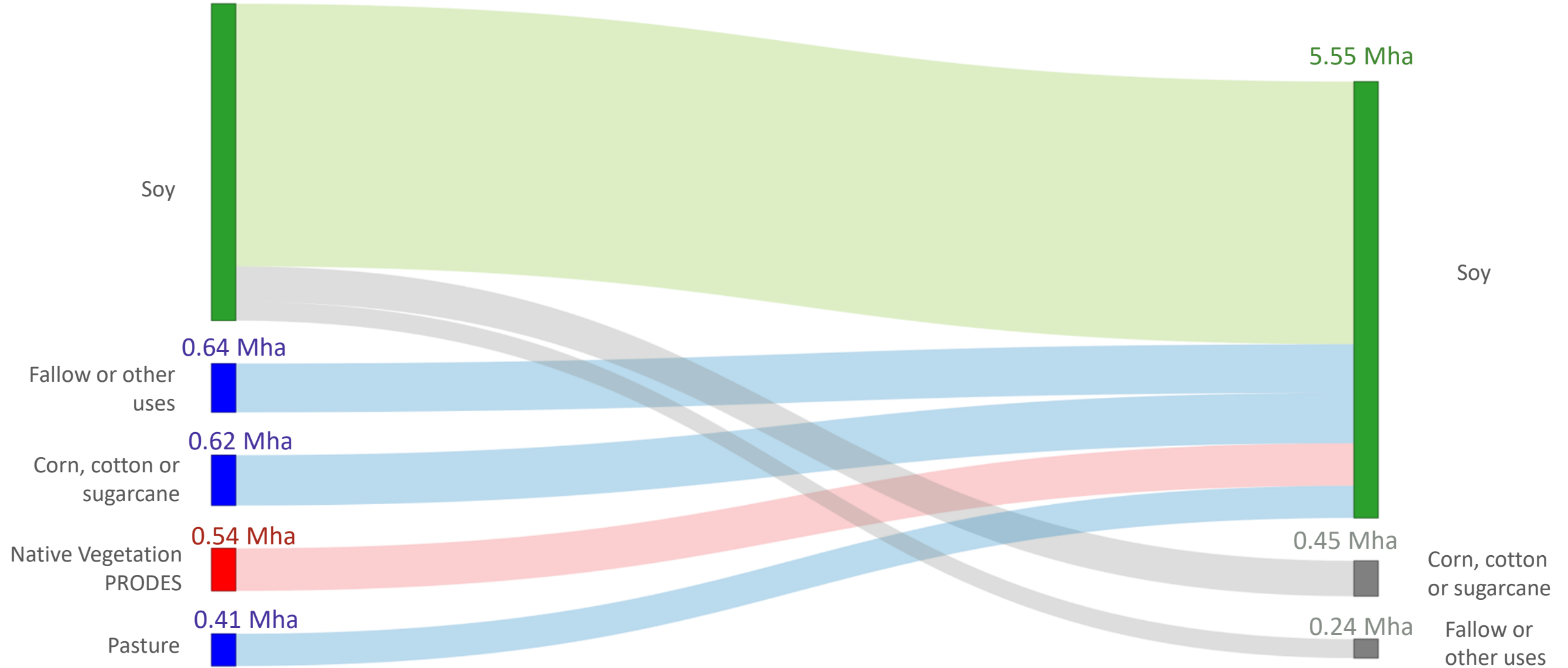
0.62 Mha
Corn, cotton or
sugarcane

0.54 Mha
Native Vegetation
PRODES

0.41 Mha
Pasture

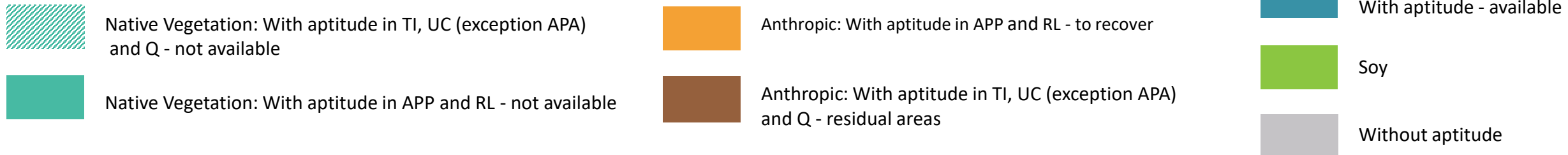
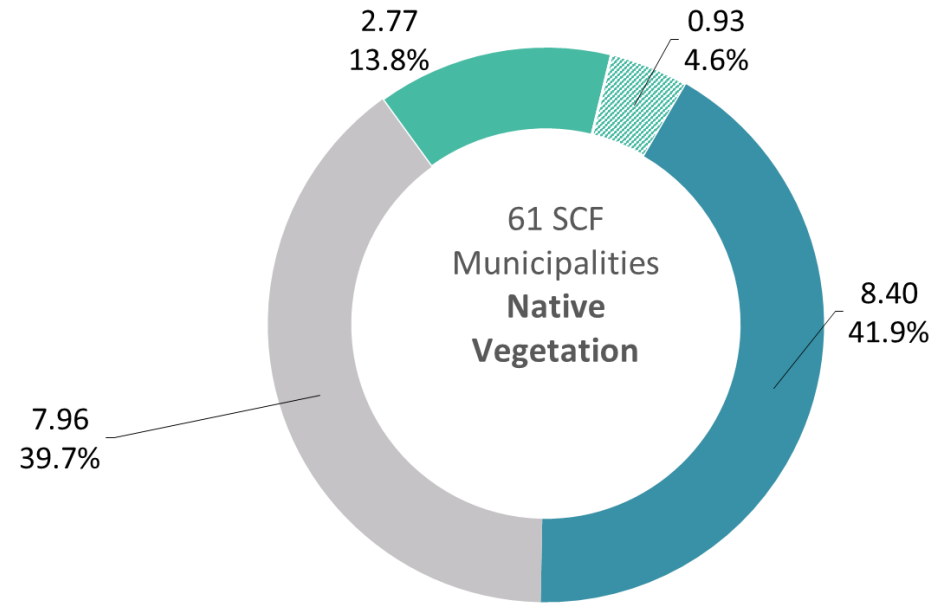
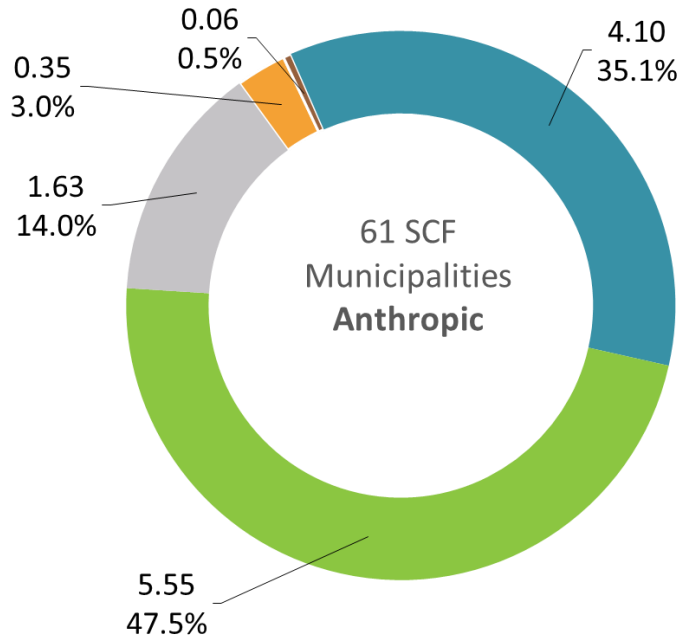
0.45 Mha
Corn, cotton
or sugarcane

0.24 Mha
Fallow or
other uses



AGRICULTURAL APTITUDE FOR SOY EXPANSION IN SCF MUNICIPALITIES

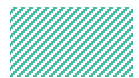
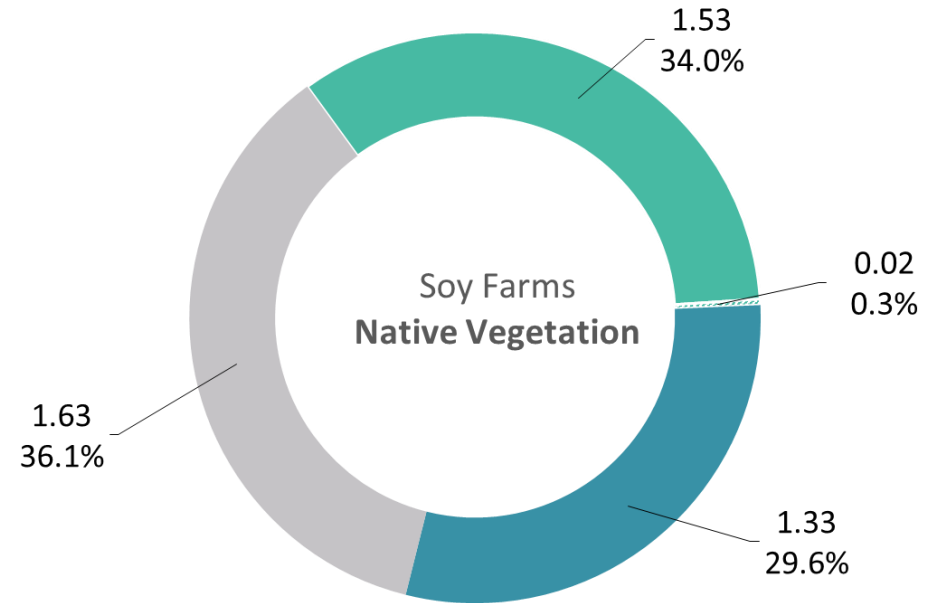
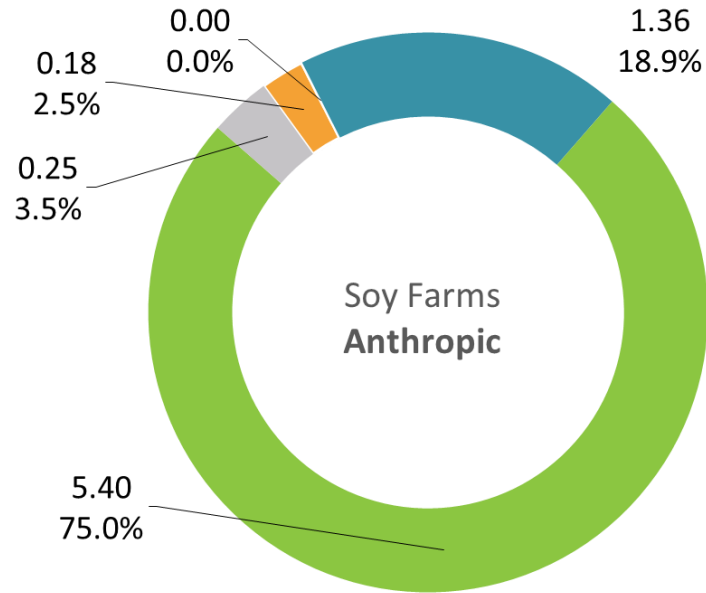
Area (Mha)



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)



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



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



Anthropic: With aptitude in APP and RL - to recover



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



With aptitude - available



Soy

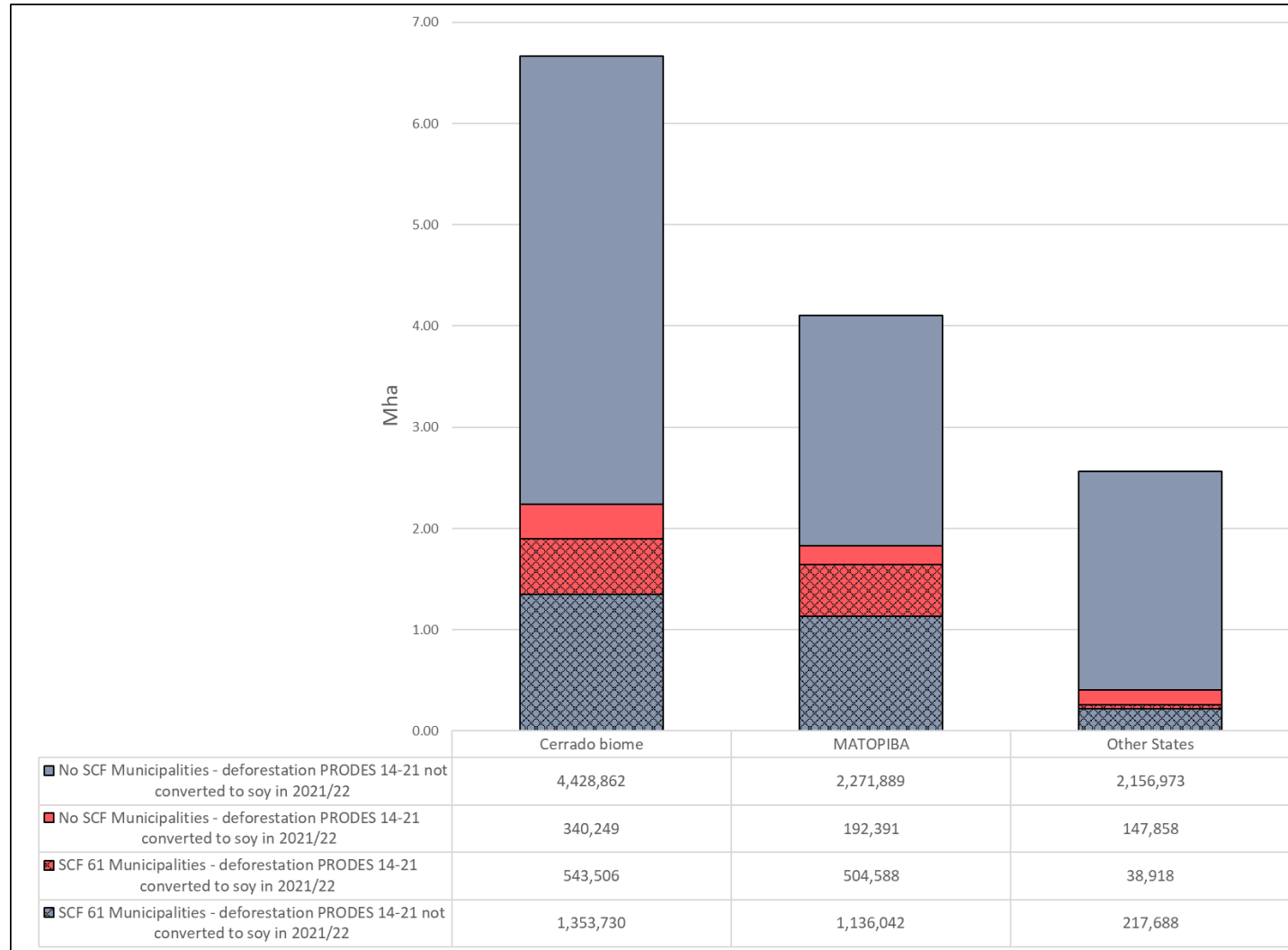


Without aptitude

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

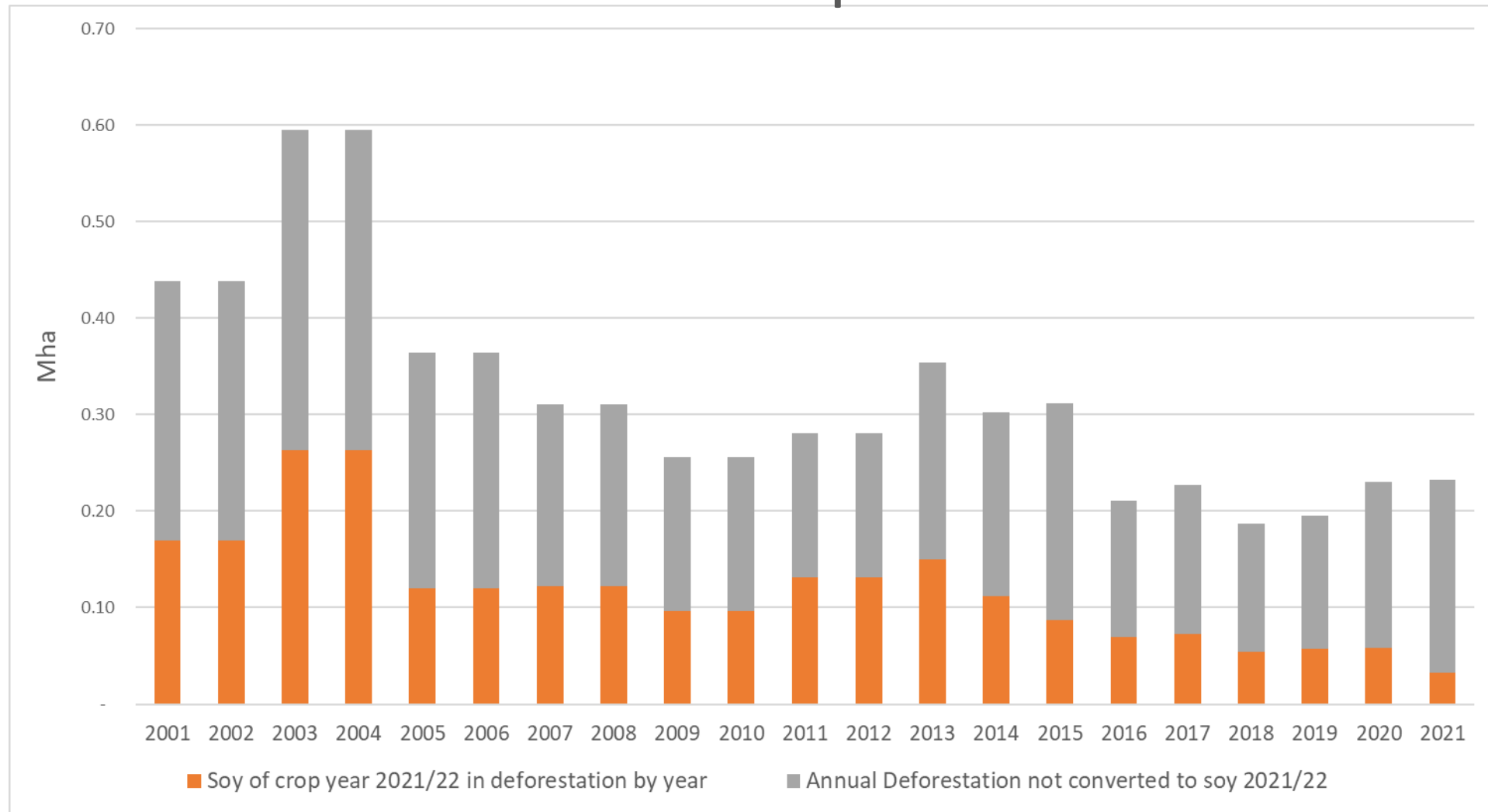
SOYBEAN OF CROP YEAR 2021/22 ON TOP OF NATIVE VEGETATION | PRODES 2014-2021

No SCF vs. SCF Municipalities in CERRADO, MATOPIBA and Other States



In the 61 SCF municipalities of the Cerrado Biome a total of 543,506 hectares of soy in 2021/22 (93% of it within the MATOPIBA) were on top of native vegetation deforested from 2014 to 2021 (8 years); in **no** SCF municipalities a total of 340,249 hectares of soy in crop year 2021/22 were on top of native vegetation deforested from 2014 to 2021.

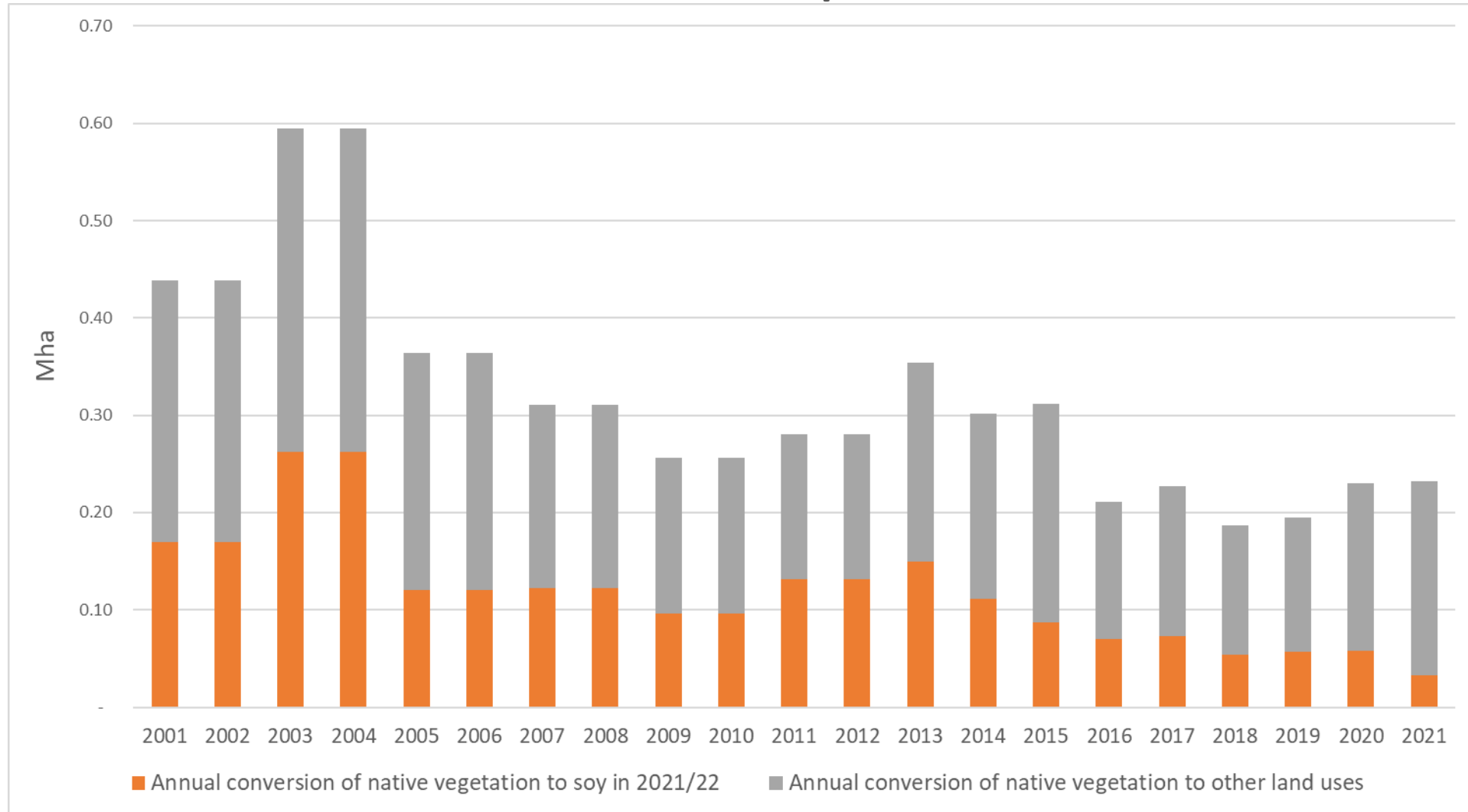
61 SCF Municipalities



55% (3.03 million hectares) of soy in crop year 2021/22 was planted on land deforested prior to 2001

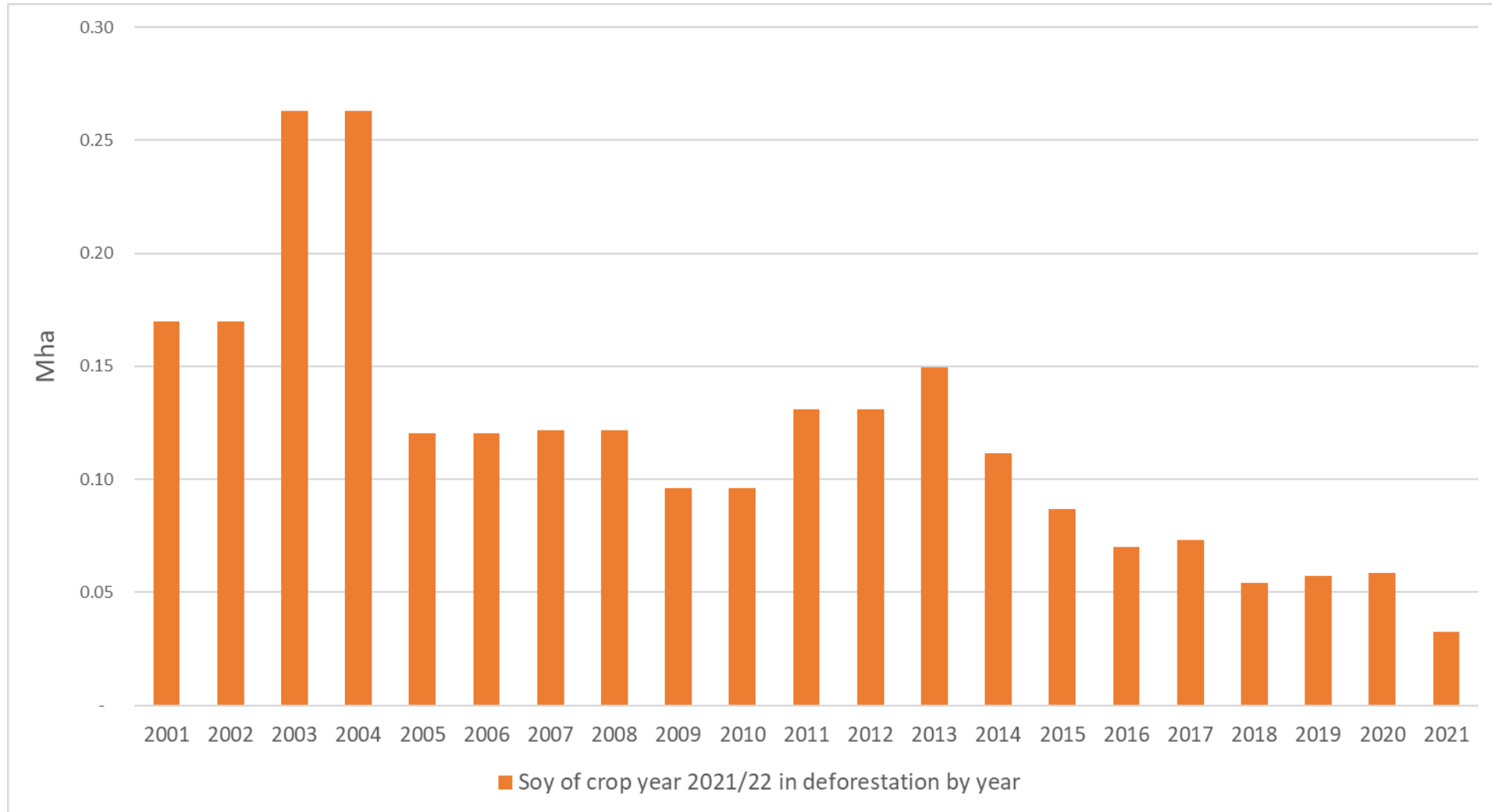
SOY OF CROP YEAR 2021/22 IN CONVERTED NATIVE VEGETATION BY YEAR (PRODES 2001-2021) AND TOTAL ANNUAL CONVERSION OF NATIVE VEGETATION TO OTHER LAND USES

61 SCF Municipalities



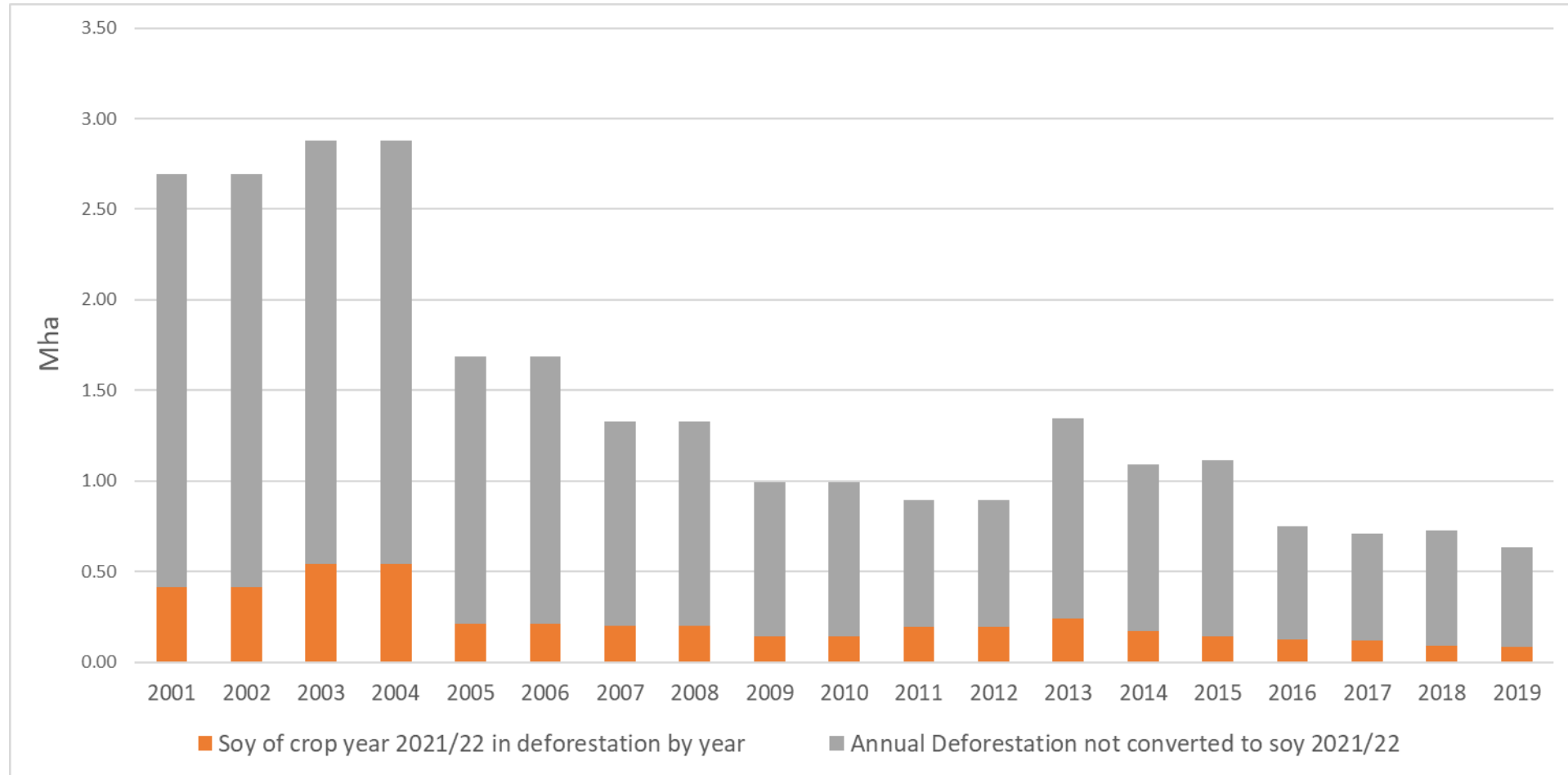
55% (3.03 million hectares) of soy in crop year 2021/22 was planted on native vegetation converted prior to 2001

61 SCF Municipalities



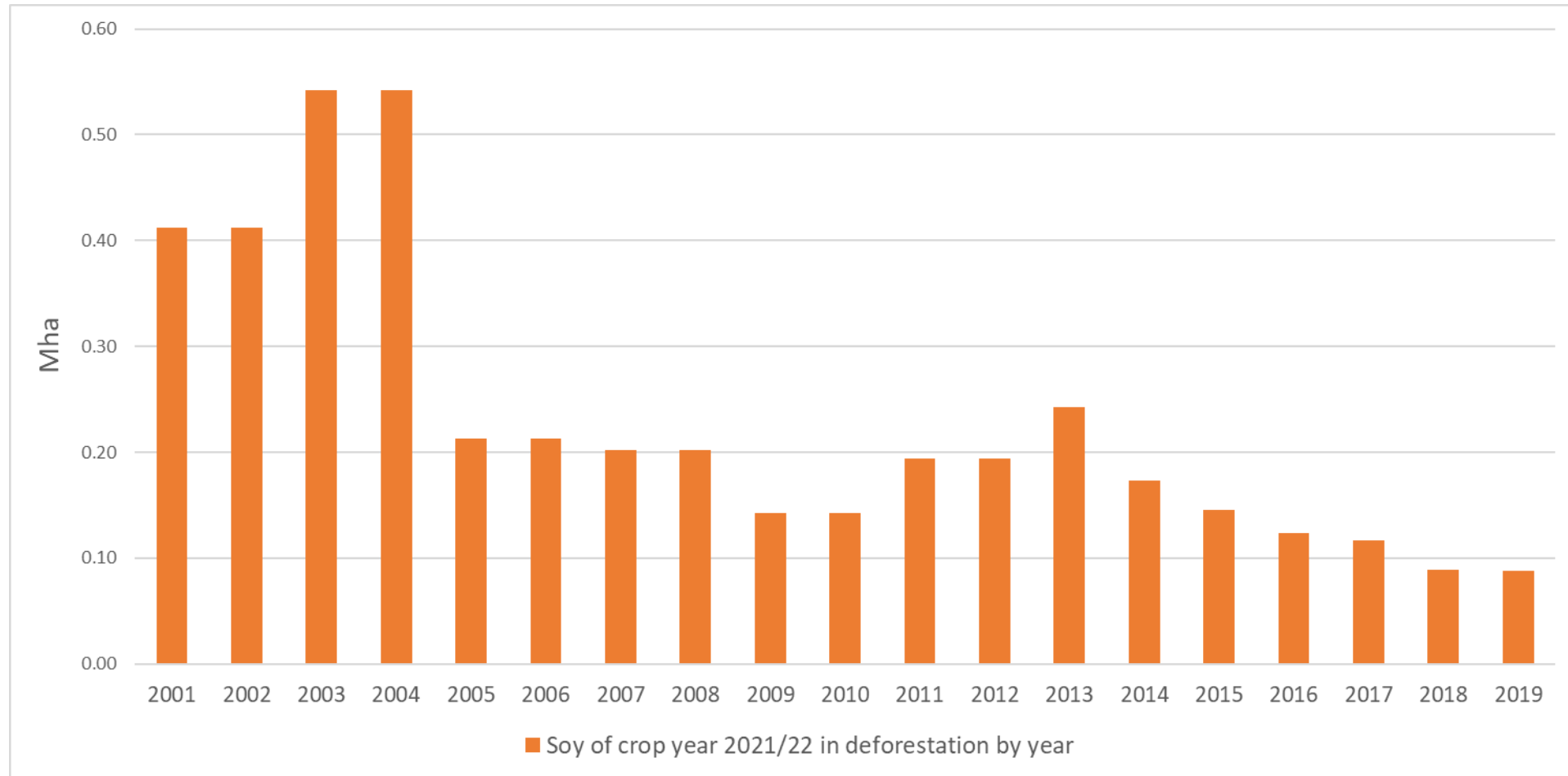
55% (3.03 million hectares) of soy in crop year 2021/22 was planted on land deforested prior to 2001

Cerrado Biome



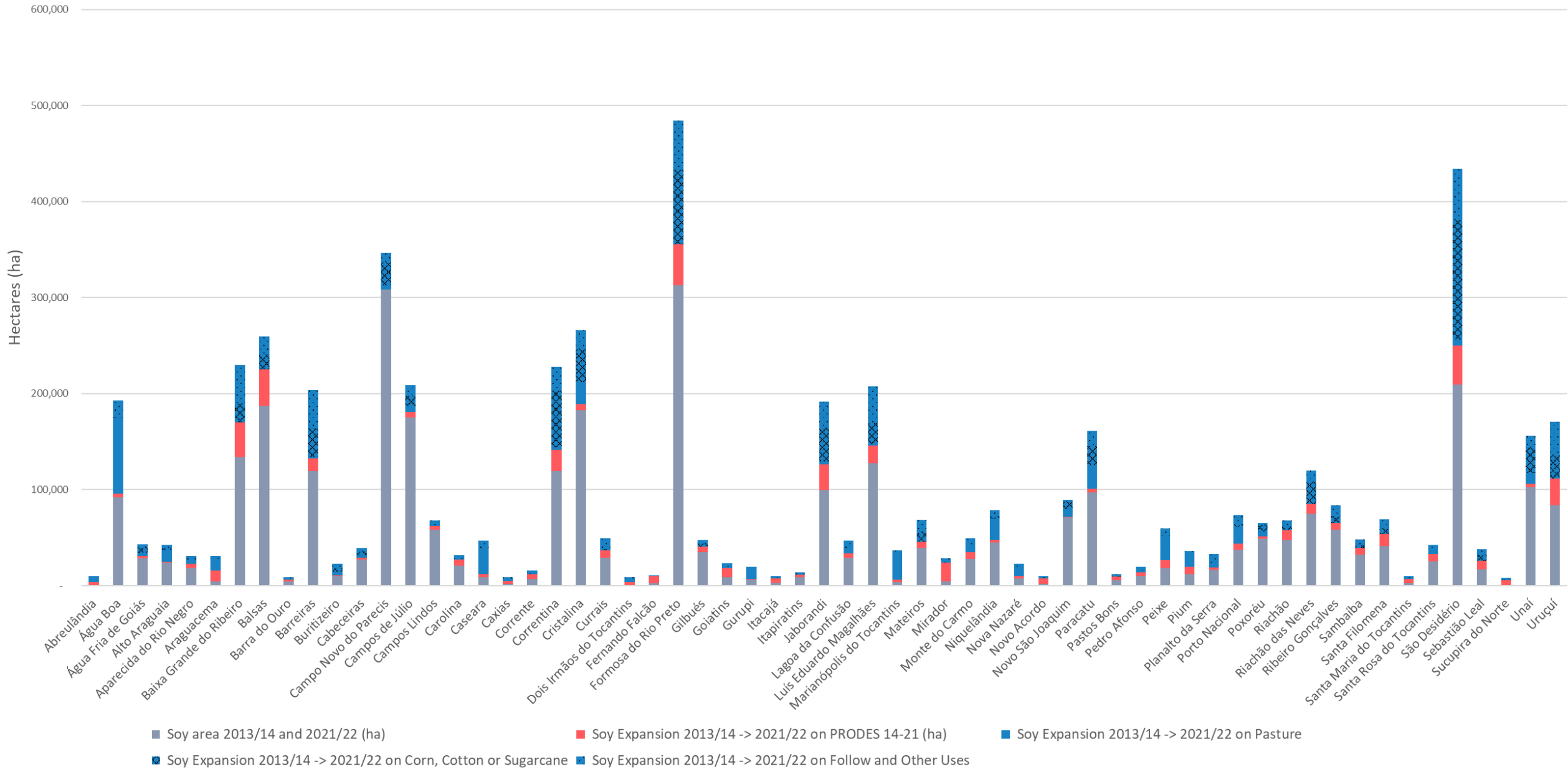
78.8% (16.89 million hectares) of soy in crop year 2021/22 was planted on land deforested prior to 2001

Cerrado Biome

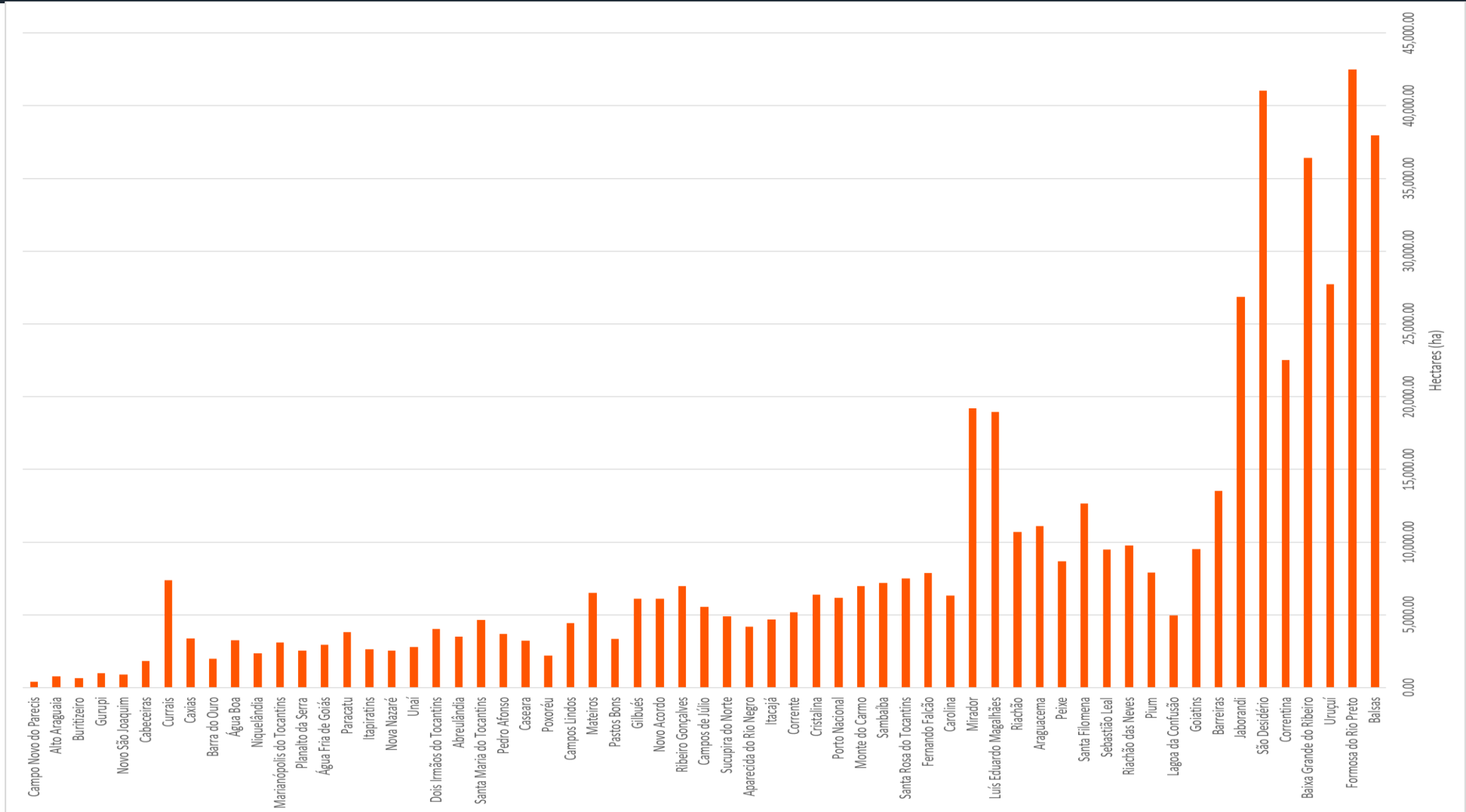


78.8% (16.89 million hectares) of soy in crop year 2021/22 was planted on land deforested prior to 2001

SOY EXPANSION DYNAMIC FROM 2013/14 TO 2021/22 IN SCF MUNICIPALITIES



SOY EXPANSION WITH NVC FROM 2013/14 TO 2021/22 IN SCF MUNICIPALITIES



Differences observed from crop year 2020/21 to 2021/22

1) In terms of soy area:

- a) Soy area in the Cerrado in crop year 2020/21 was 19,963,483 hectares and in crop year 2021/22 it was 21,433,719 hectares, an increase of 1,470,236 hectares (7.4%);
- b) Soy area in the SCF municipalities in crop year 2020/21 was 5,246,698 hectares and in crop year 2021/22 it was 5,547,972 hectares, an increase of 301,274 hectares (5.7%);

2) In terms of deforestation:

- a) Deforestation in the Cerrado in 2020 was 790,518 hectares and in 2021 it was 853,146 hectares;
- b) Deforestation in the SCF municipalities in 2020 was 230,497 hectares and in 2021 it was 232,498 hectares;

3) In terms of NVC to soy:

- a) NVC to soy in the SCF municipalities in crop year 2020/21 on deforestation observed in 2020 was 27,955 hectares; while NVC to soy in the SCF municipalities in crop year 2021/22 on deforestation observed in 2021 was 52,605 hectares showing a significant intensification of direct NVC to soy in crop year 2021/22;

From 2013/14 to 2021/22

In the Cerrado biome NVC to soy was 883,755 hectares; while in the SCF municipalities it was 543,505 hectares.

3rd November 2022

CERRADO SOY DYNAMICS WITH FOCUS ON THE 61 PRIORITY MUNICIPALITIES UPDATED FOR CROP YEAR 2021/22 vs. PRODES 2014-2021

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