



**Supplemental Atlas
of Fertilizer
Recommendation for
Tigray Regional State, Ethiopia**

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Introduction

Agriculture is very much the base of Ethiopia's economy, standing as the base and the building block of what the country is today. The agriculture sector accounts for 41% of the country's GDP (CSA 2015), 85% of exports, and over 80% of total employment in the labor force (EEO 2016). However, the sector is characterized by low productivity, mainly caused by low soil fertility and absence of efficient, sustainable and site specific soil fertility management practices (Abush *et al.* 2011; IFPRI 2011), among others. One major impediment to increase fertilizer use efficiency in the country has been lack of up-to-date and comprehensive information about the soil fertility status of the agricultural land.

Currently, the problem has been recognized by the government and soil fertility field survey is completed at national level and soil fertility status and fertilizer recommendation work is underway by the EthioSIS project of the Agricultural Transformation Agency. Soil Fertility Status and Fertilizer recommendations Atlas of the Tigray region was produced back in 2014, eleven fertilizer types were recommended for all 35 woredas of the Tigray regional state as the region has the lowest number of woredas compared to the other three major regions. Since then, in addition to the mapping work, some actions have been made at national level - such as taking away potassium nutrient from the previously recommended blended fertilizer formulations and delivering it as straight fertilizer to areas that require potash fertilizer. These revisions of the fertilizer recommendations are supported by massive fertilizer demonstration trials and research results conducted by different postgraduate students.

Moreover, with current level of scientific advancements and recommendations for rating the potassium nutrient in soils, it has become necessary to consider other criteria, in addition to the critical levels, to judge the status of potassium in soils and

recommend the fertilizer. For these reasons, following the methodologies employed for the other regions formulations of the recommended fertilizer types for Tigray region and potash fertilizer requiring areas revised. In addition the initially recommended NPSB and NPSZn blended fertilizers have been changed to compound forms that can be directly imported from abroad since exclusively blending fertilizers with the limited number of fertilizer bending plants cannot fulfill the current demand of tailored fertilizers.

This supplement presents the revised fertilizer type recommendations for the 35 woredas of the Region. Among 17 soil fertility parameters analyzed and mapped, seven nutrients were found deficient based on soil analysis. The maps on each page show the recommended fertilizer types by woreda, and areas that require potash fertilizer.

Potash fertilizer was recommended based on the results of three criteria:

- (i) Deficiency of potassium found from soil analysis result,
- (ii) Calculated potassium to magnesium ratio (K: Mg) that is below the established critical level, and
- (iii) Presence of highland Vertisols in the Region as it has been proved from massive crop potash fertilizer response studies conducted in the country that highland Vertisols fix potassium by their clay minerals, and crops cannot get the required potassium nutrient easily.

Seven soil nutrients (N, P, K, S, Fe, Zn and B) are found to be deficient in the agricultural soils of Tigray region. The fertilizer recommendation is revised since potassium is taken out from the blend (joint decision with stakeholders) and eight fertilizer types including potash and urea fertilizers (Table 1) are recommended for most part of all woredas of the Tigray Regional

State. Five of the eight fertilizers types are commonly identified for other regions. The two iron containing fertilizers and sulfate of potash (SOP) are new recommended blended and straight fertilizers, respectively.

By considering the extent of deficiency of the 7 soil nutrients, it was found that Tigray soils require eight fertilizer types (i.e., six NPS family fertilizers, urea and one potash fertilizer) for increased agricultural production the region.

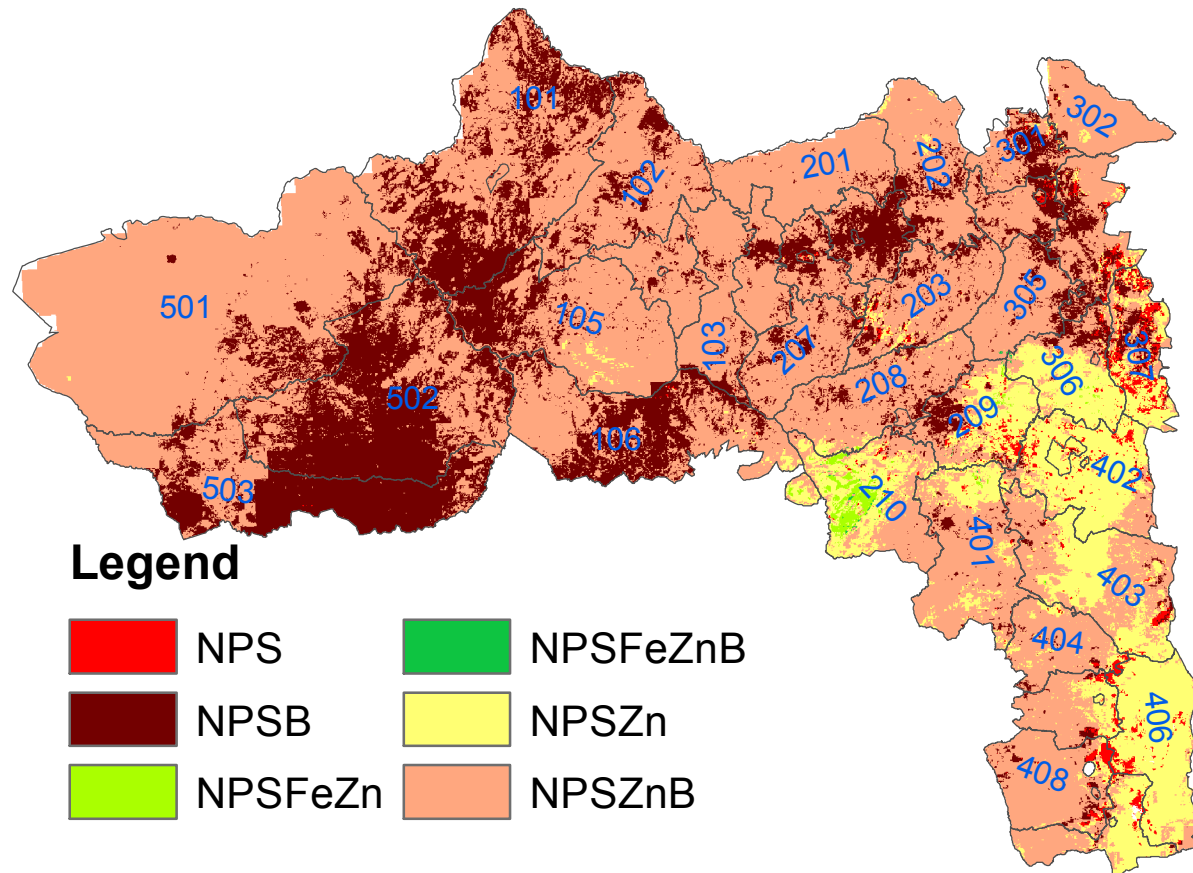
These recommended fertilizer types are given in Table 1.

Table 1. List of recommended fertilizers and their respective area shares in the Tigray Region.

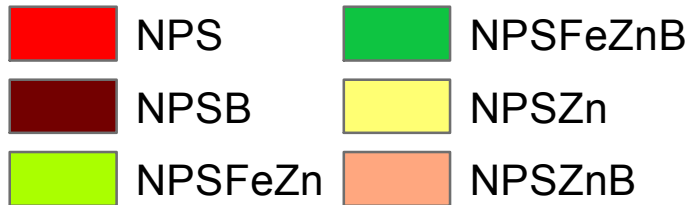
No.	Recommended fertilizers	Formulation and means of supply	Percent share
1	NPS	19 N - 38 P ₂ O ₅ - 7 S (Compound)	1.42
2	NPSB	18.9 N - 37.7 P ₂ O ₅ - 6.95 S - 0.1 B (Compound)	22.34
3	NPSFeZn	17.8 N - 35.2 P ₂ O ₅ - 7.6 S - 2.2 Zn - 0.3 Fe (Blend)	0.40
4	NPSFeZnB	17.4 N - 34.6 P ₂ O ₅ - 7.5 S - 0.1 B - 2.2 Zn -0.3 Fe (Blend)	0.03
5	NPSZn	18 N - 35.9 P ₂ O ₅ - 7.7 S - 2.2 Zn (Compound)	12.41
6	NPSZnB	17.8 N - 35.7 P ₂ O ₅ - 7.7 S - 0.1 B -2.2 Zn (Blend)	63.37
7	Urea	Urea (46 N)	99.98
8	Potash Fertilizer	Sulfate of Potash (SOP): KCl	79.62

EthioSIS Project Team, August 2017, Addis Ababa

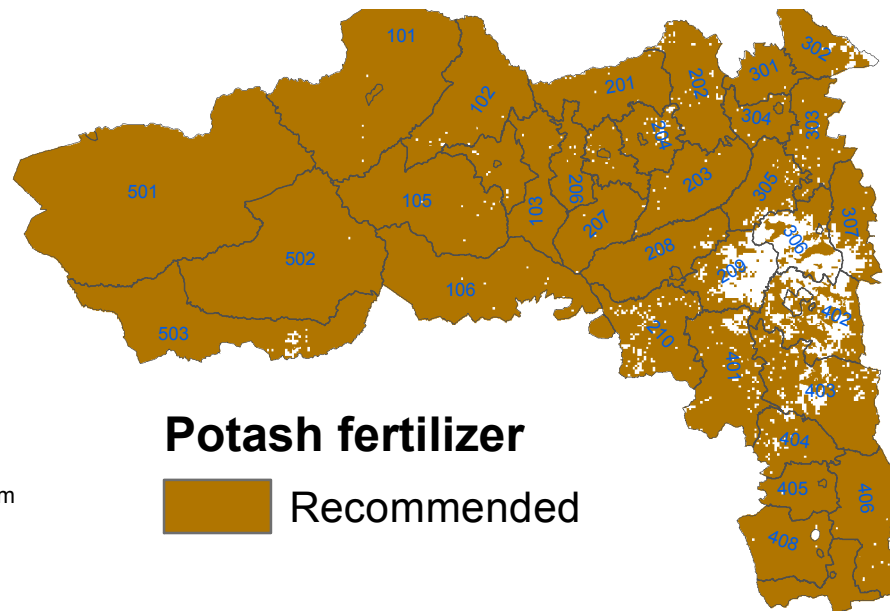
Recommended fertilizer types for Tigray National Regional State



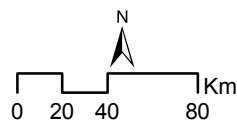
Legend



Woredas	
Code	Name
101	Tahitay Adiyabo
102	Laelay Adiabo
103	Medebay Zana
104	Tahitay Qoraro
105	Asegede Tsimbila
106	Tselemt
201	Mereb Leha
202	Ahiferom
203	Wereilehi
204	Adwa
205	Laelay Mayichew
206	Tahitay Maychew
207	Nader Adet
208	Kola Temben
209	Degua Temben
210	Tanqua Abergele
301	Gulo Meheda
302	Erob
303	Saesi Tsadamba
304	Ganta Afeshum
305	Hawzen
306	Klite Awlalo
307	Atsbi Wonberta
401	Seharti Samre
402	Enderta
403	Hintalo Wajirat
404	Ambalage
405	Endamehone
406	Raya Azebo
407	Alamata
408	Ofla
501	Qafta Humera
502	Welqayet
503	Tsegede
601	S.Mekele: Qiha

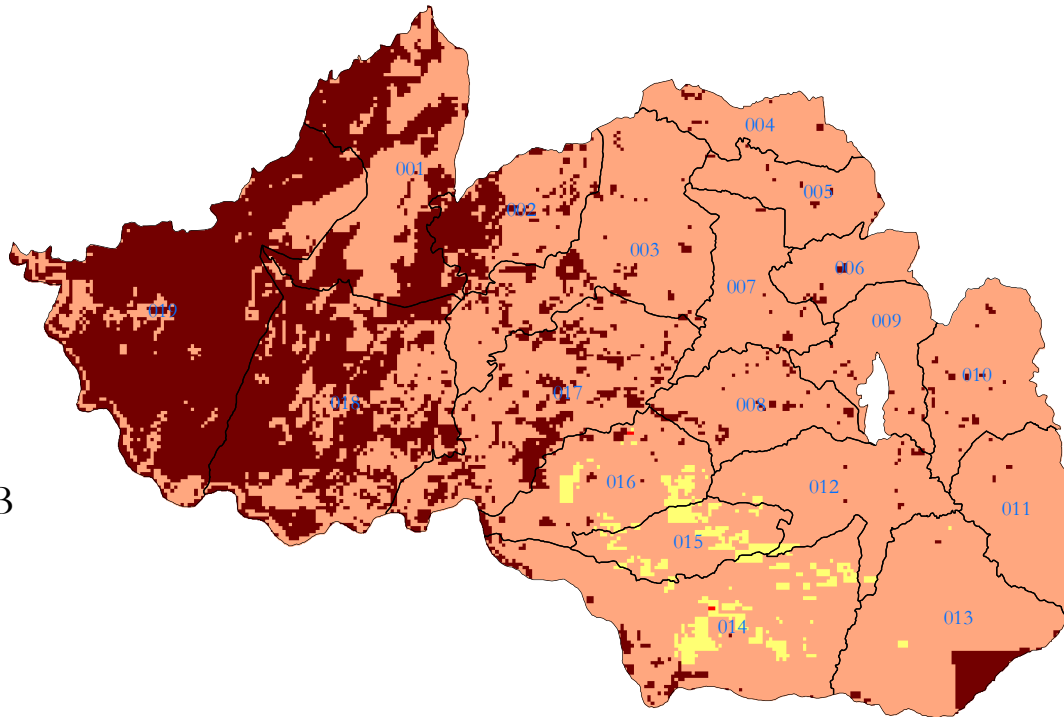
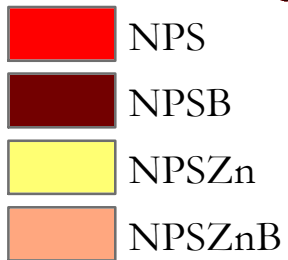


Potash fertilizer



Recommended Fertilizer Types for Asegede Tsimbila Woreda

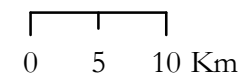
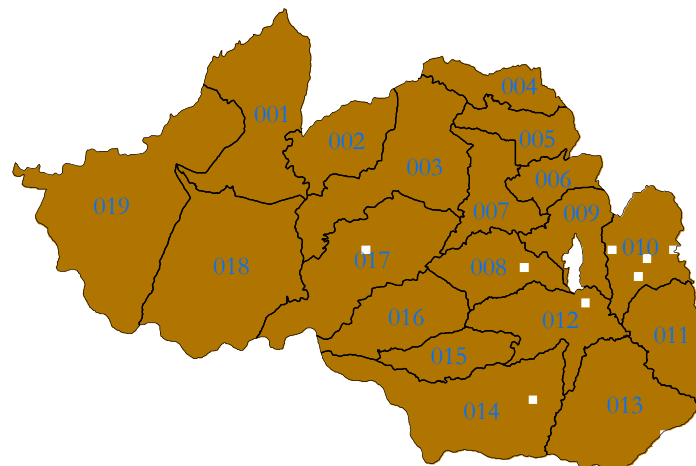
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Kebeles

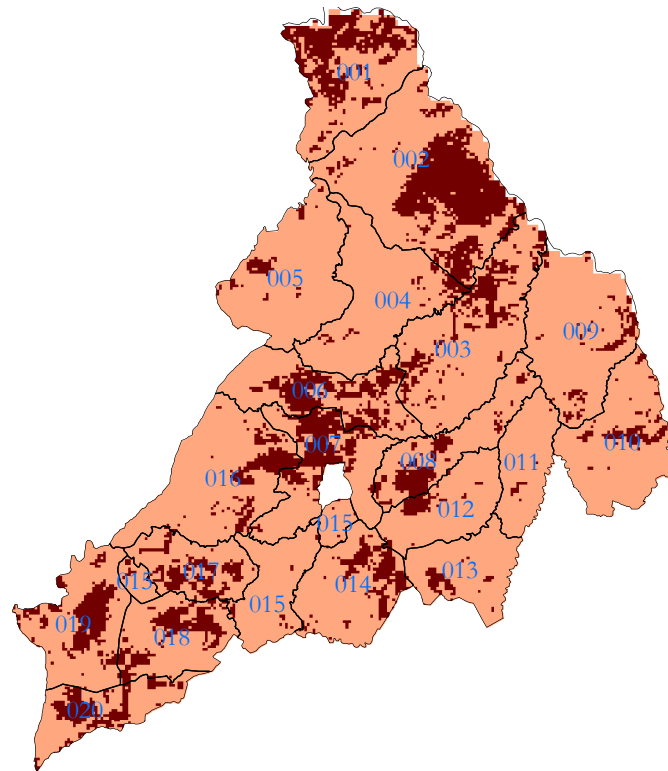
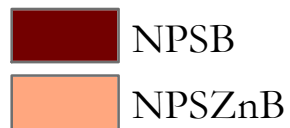
Code	Names
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002	Hitsats
003	Hibiret
004	May Seye
005	May Feres
006	May Sewihi
007	May Shek
008	Alogen
009	Lemlem
010	Birihan
011	Bona Koda
012	Hinitset
013	Mizan
014	Debir Abay
015	Zenigorakoda
016	Debir Mariyam
017	Limaat
018	Adi Mehameday
019	Dedebit

Potash Fertilizer



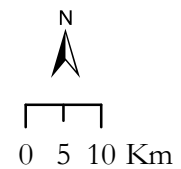
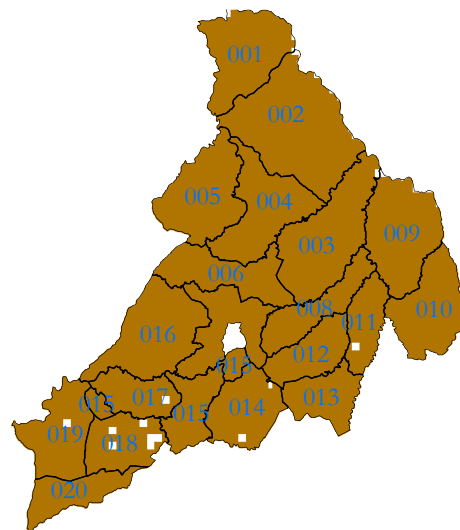
Recommended Fertilizer Types for Laelay Adiabo Woreda

Legend



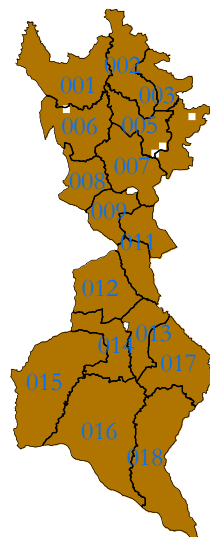
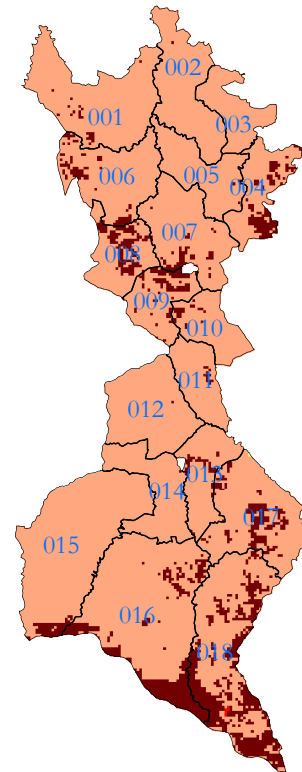
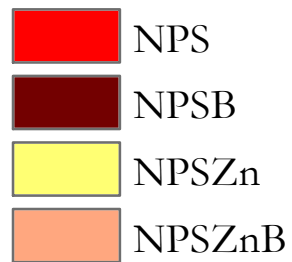
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Code	Names
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002	Adikelite
003	Medere Felasi
004	Adinebereid
005	Godfeye
006	Fethi
007	Hebret
008	Adi Gedena
009	Egub
010	Medebay Terer
011	Adi Miliyen
012	Hadegeta
013	May Anbesa
014	Adi Abagi
015	Stada Bora
015	Stada Bora
016	Adi Negesti
017	Guba Goba
018	Stahayu
019	Zelazele
020	Semeret

Potash Fertilizer



Recommended Fertilizer Types for Medebay Zana Woreda

Legend

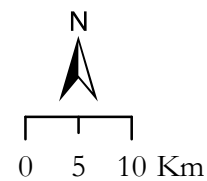


Potash Fertilizer



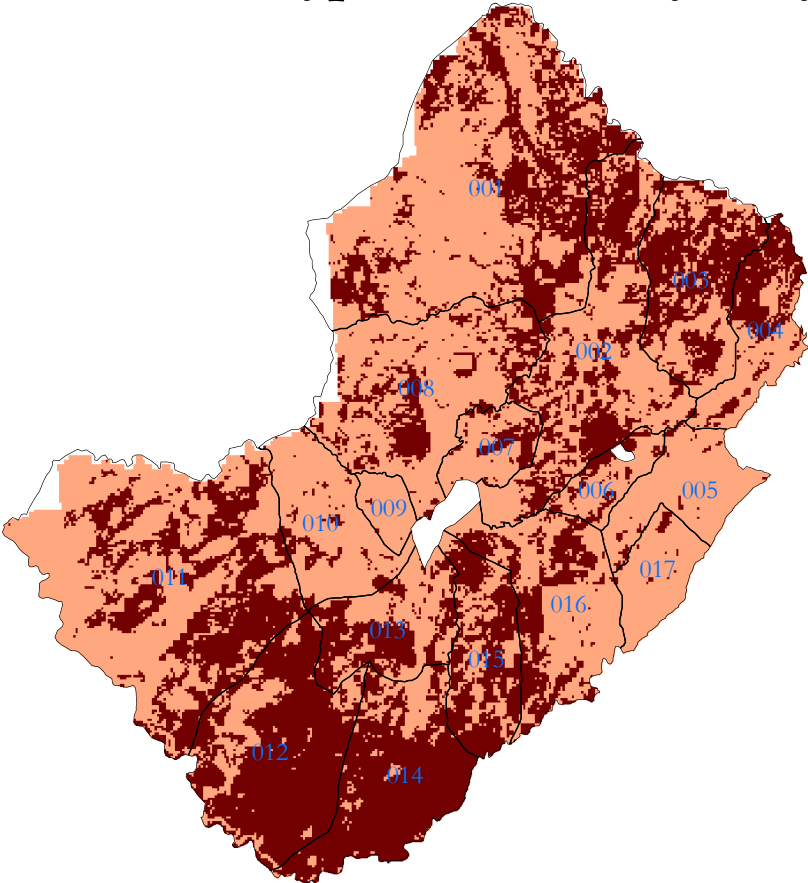
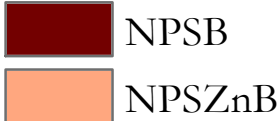
Kebeles

Code	Names
001	Nefasit
002	Shame
003	Tseada Leha
004	Adi Beareji
005	Adi Ngisti
006	Kul Ferha
007	Emba Tsehidi
008	Mesihil
009	Ade Kemalhi
010	Kemalo
011	Adi Geshei
012	Bahira
013	walka
014	Debre Kerbe
015	Kibrto
016	Thula
017	Adi Tsegora
018	Mintil



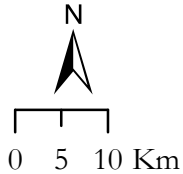
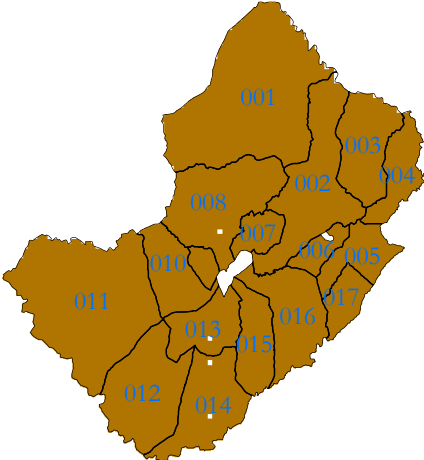
Recommended Fertilizer Types for Tahitay Adiyabo Woreda

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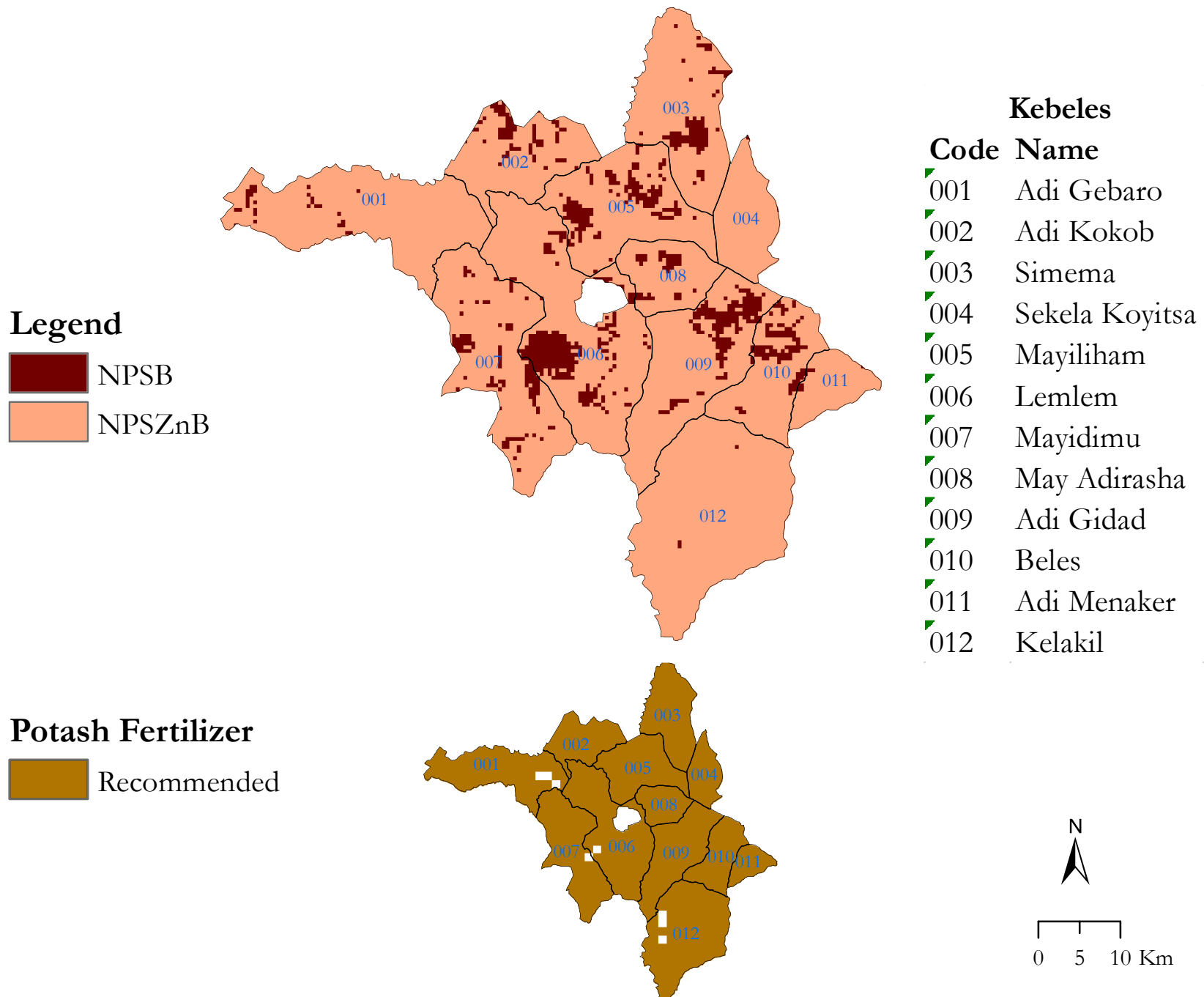


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002	Adiawuala
003	Geladiyus
004	Aditelaom
005	Daguala
006	Adihegeray
007	Shemblina
008	Gemhelo
009	Lemlem
010	Ademeyti
011	Aditeter
012	Adiaser
013	Mentebteb
014	Markuhili
015	Aterega
016	Zabangedena
017	Lesemuguna Andi

Potash Fertilizer

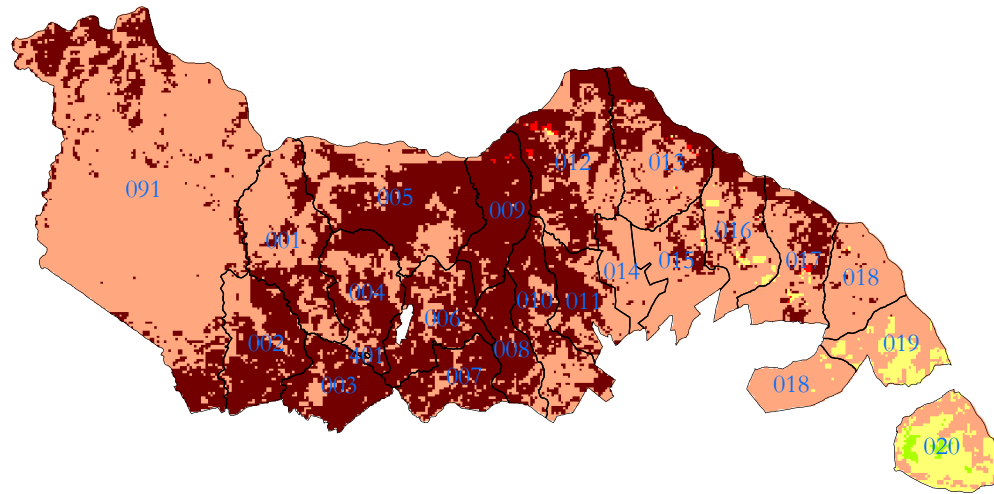
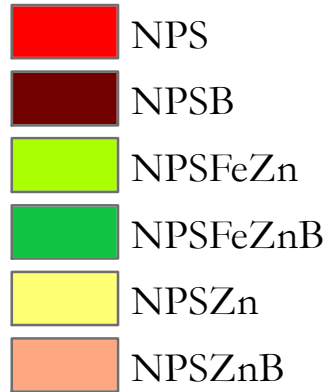


Recommended Fertilizer Types for Tahitay Qoraro Woreda



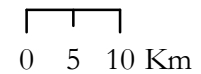
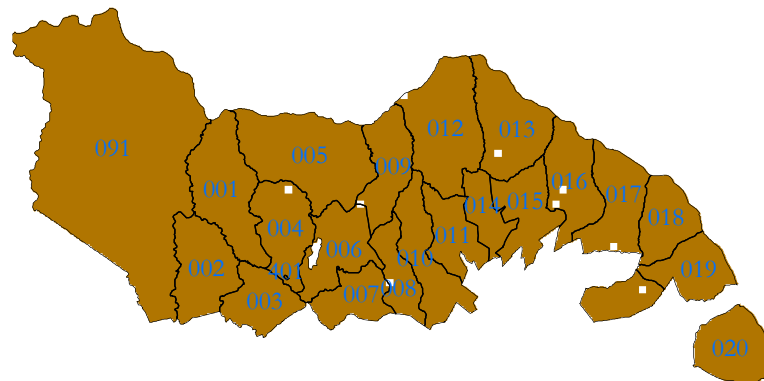
Recommended Fertilizer Types for Tselemt Woreda

Legend



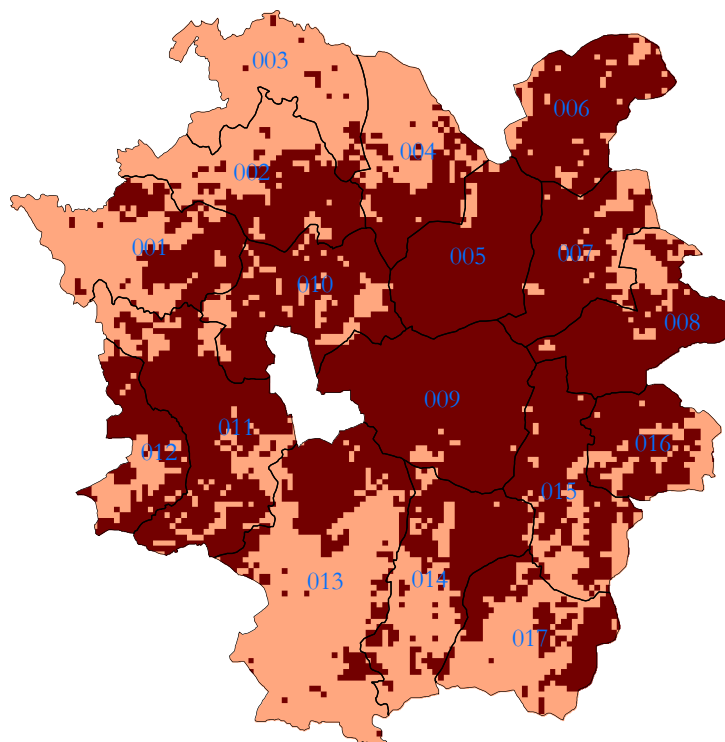
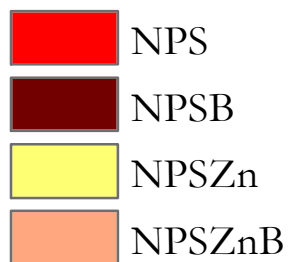
Kebeles	
Code	Names
001	May Tehilit
002	Stada Kerni
003	Mezker
004	Wohedet
005	May Ayene
006	Medhani Alem
007	Adi Wesene
008	Serako
009	May Anbesa
010	Sekota Silasse
011	Sekota Mariam
012	Dima
013	Mechara
014	Mayame
015	Babako
016	Maygimere
017	Chachore
018	Fiyelwiha
019	Midir Hamsho
020	Meda
091	Waldiba Gedam
401	Sefafi erisha

Potash Fertilizer



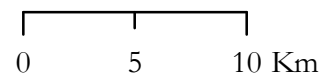
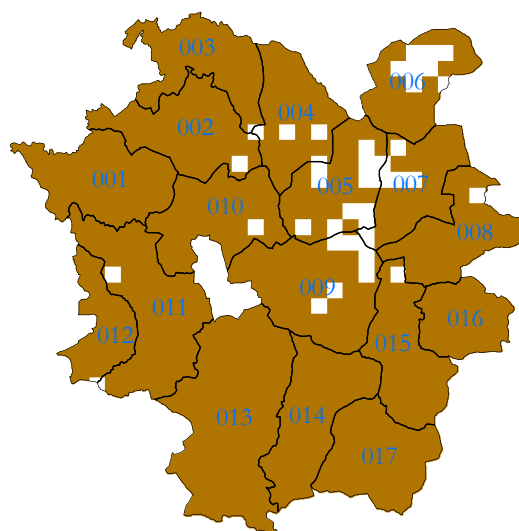
Recommended Fertilizer Types for Adwa Woreda

Legend



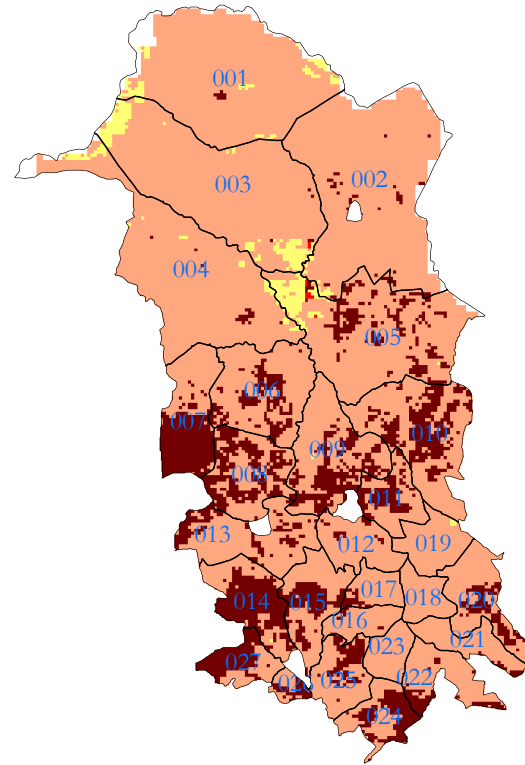
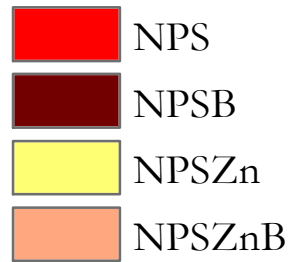
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Code	Names
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002	Wdikesh
003	Keren
004	Selam
005	Mariam Shewit
006	Yeha
007	Genidebita
008	Weyeniti
009	Enidebagerima
010	Soloda
011	Bet Yohanis
012	Lahiya
013	May Tuom
014	Debir Genet
015	Logomiti
016	Gediba
017	Tahitay Yilogomiti

Potash Fertilizer



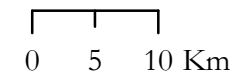
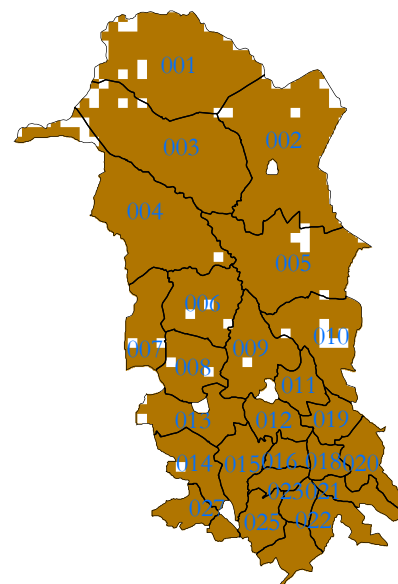
Recommended Fertilizer Types for Ahiferom Woreda

Legend



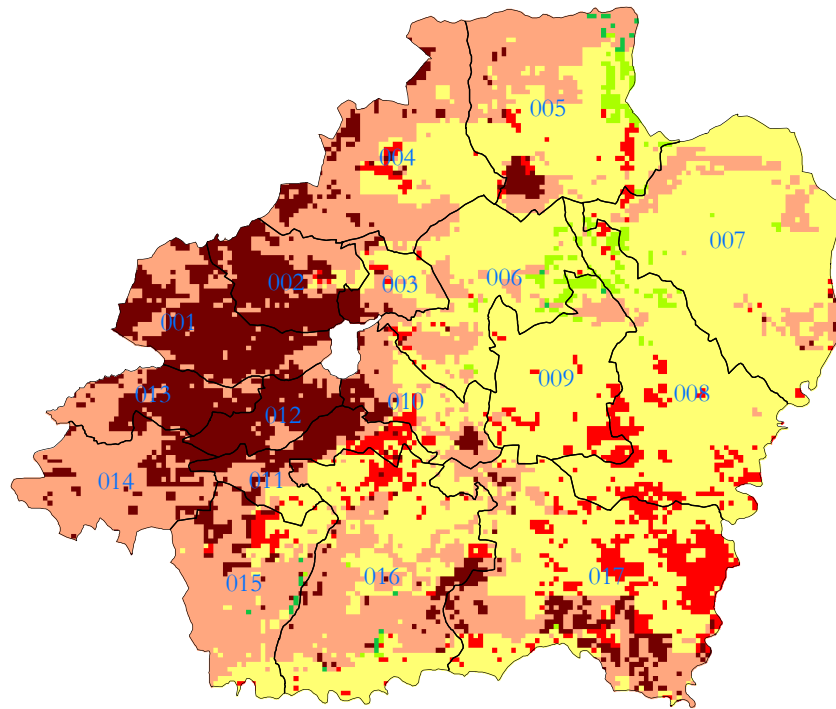
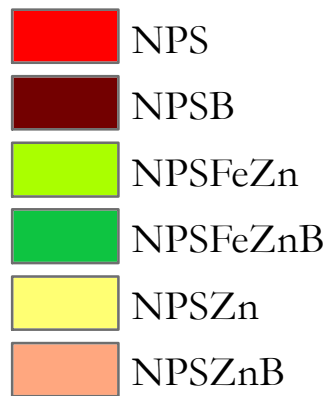
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003	Semehal
004	Ziban Guyila
005	Erdi Jegano
006	Bet Gebez
007	Mezbir
008	Taytay May Garetsemiri
009	Degoz
010	Sero
011	May Seru
012	Enda Mariyam
013	Dibdibo
014	Dizata
015	Taytay Dairiha
016	Endalashin
017	May Keychat
018	Sefeo
019	Emba Ahiferom
020	Edaga Arbi
021	Kudo
022	Mihag
023	Adi Beret
024	Adi Satire
025	Edaga Hamus
026	Feres May
027	Adi Ekoro

Potash Fertilizer



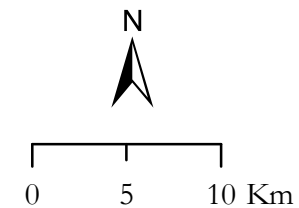
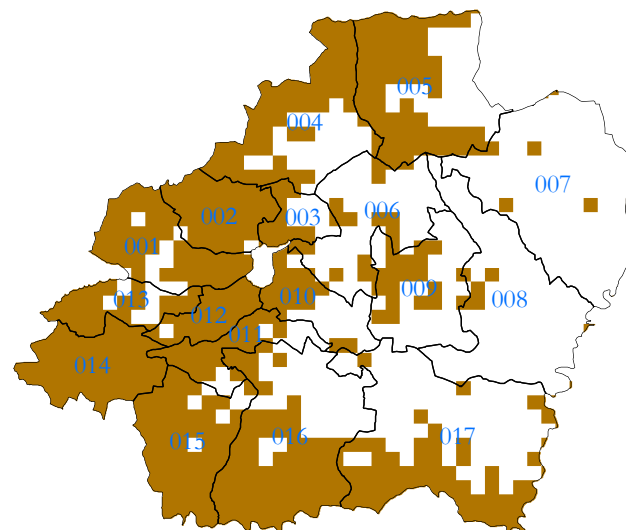
Recommended Fertilizer Types for Degua Temben Woreda

Legend



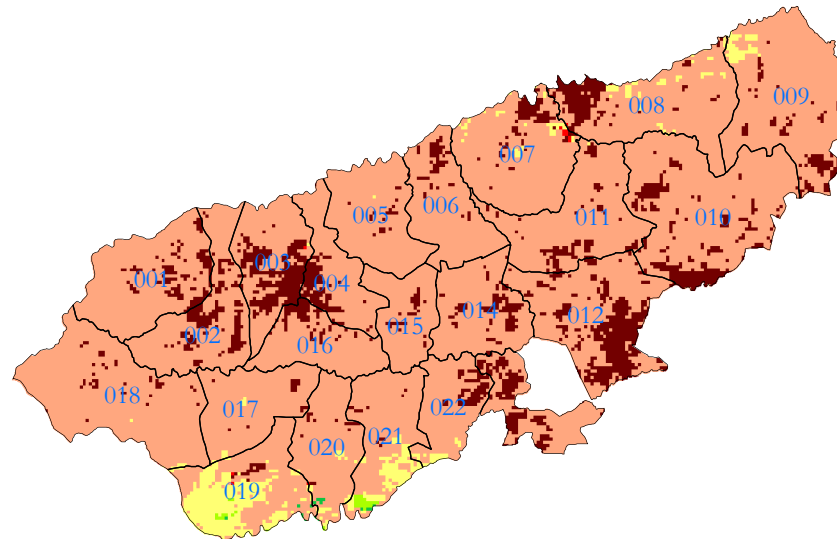
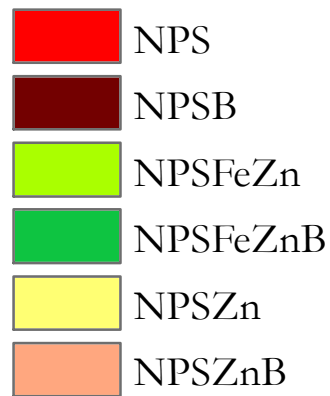
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Code	Names
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002	Mahibere Silase
003	Selam
004	Hadinet
005	Arebayi
006	Ayin Birikrkin
007	Eminian Kilalo
008	Adi Azmera
009	Mizane Birihan
010	Mikael Abiyi
011	Seret
012	Limaat
013	Aregen
014	Mizan
015	Simiret
016	Walita
017	Debireb Naziret

Potash Fertilizer



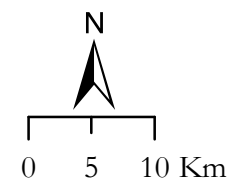
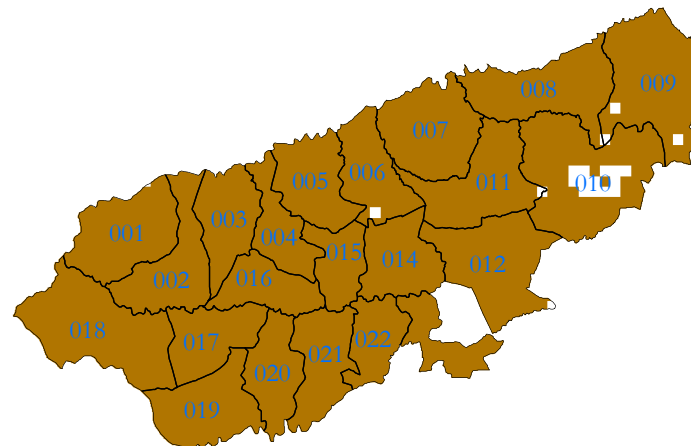
Recommended Fertilizer Types for Kola Temben Woreda

Legend

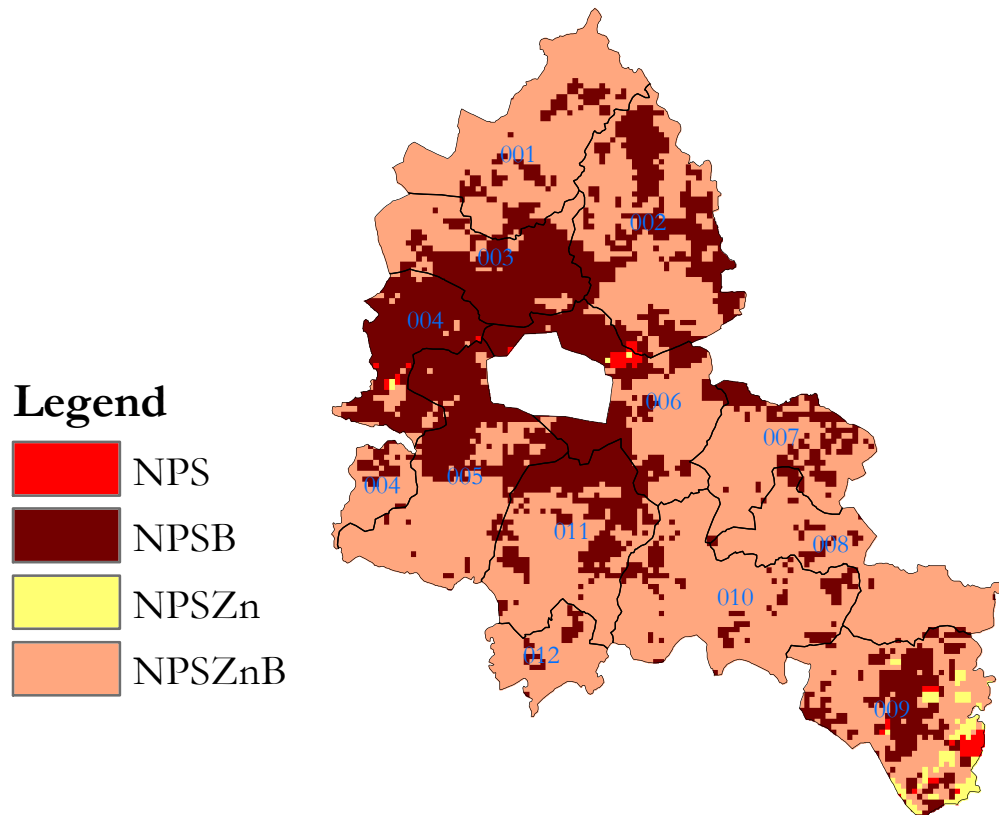


Kebeles	
Code	Names
001	Chamo tselay
002	Nawi
003	darnatsab
004	Marara
005	Tabote Giyorgis
006	Salam
007	Dabeno
008	Wuhidet
009	Santa gelebeda
010	Adiha
011	Werkamba
012	Getsikim laslay
013	Debregenet
014	Atakti
015	Menji
016	Gororo
017	Mitsawerki
018	Arena
019	Shulom imni
020	Guya
021	Lemret
022	Begashahi

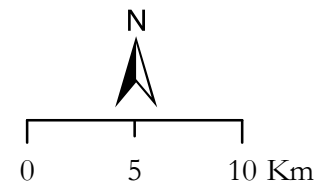
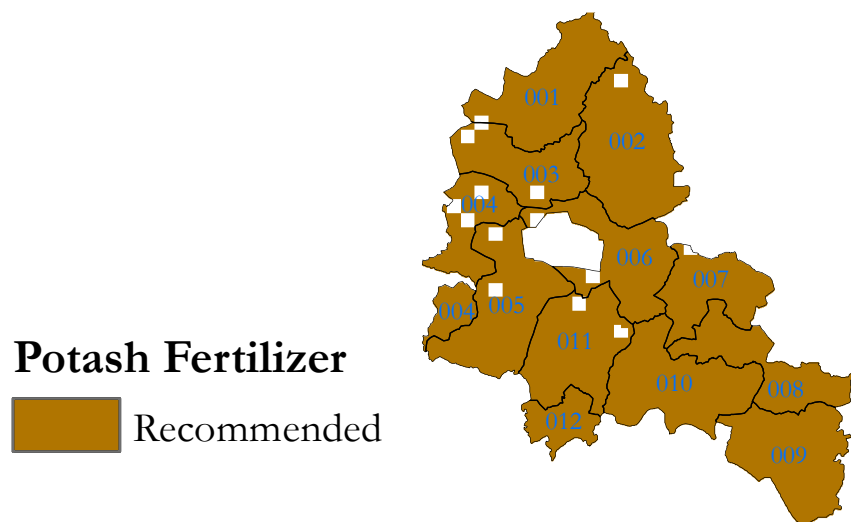
Potash Fertilizer



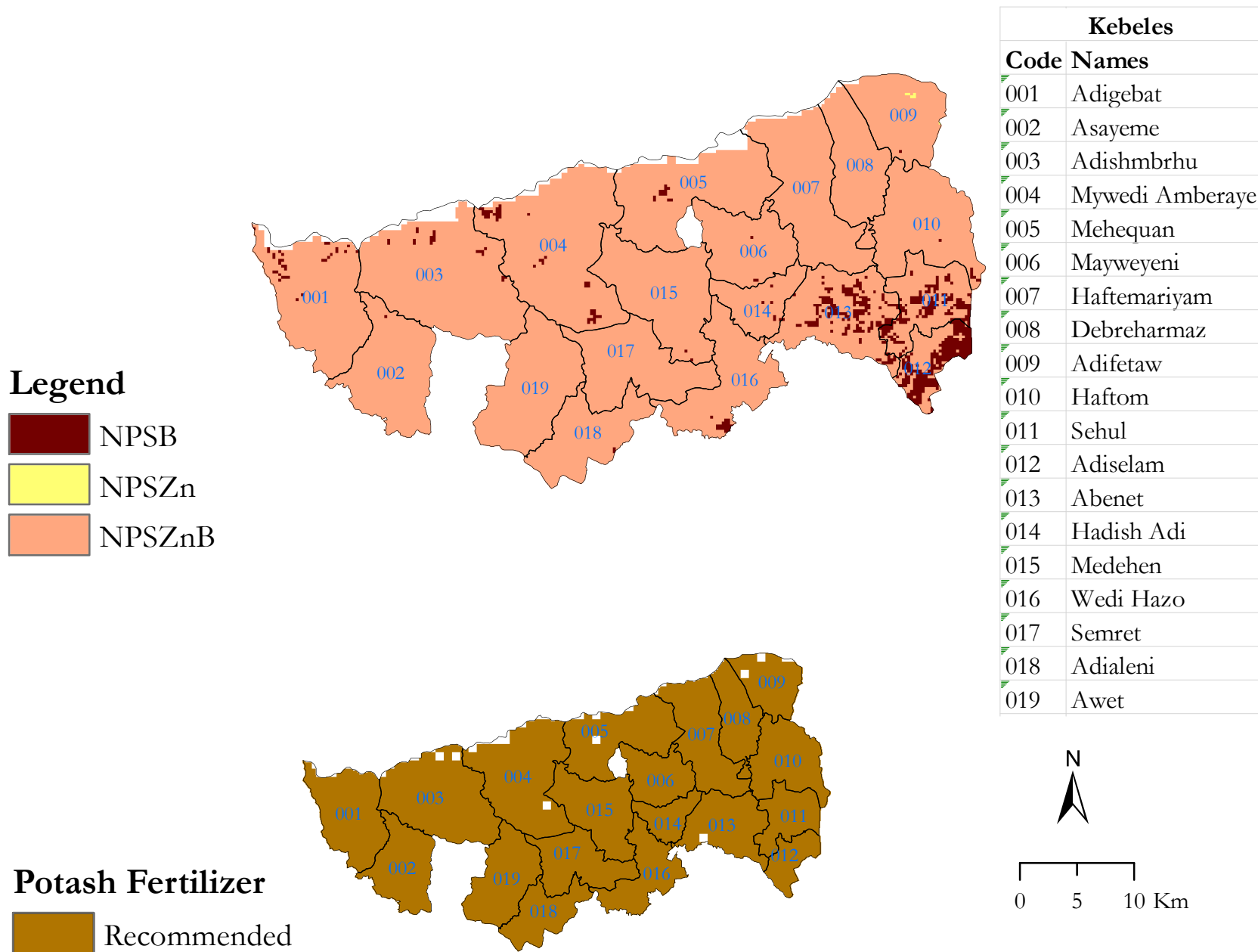
Recommended Fertilizer Types for Laelay Mayichewu Woreda



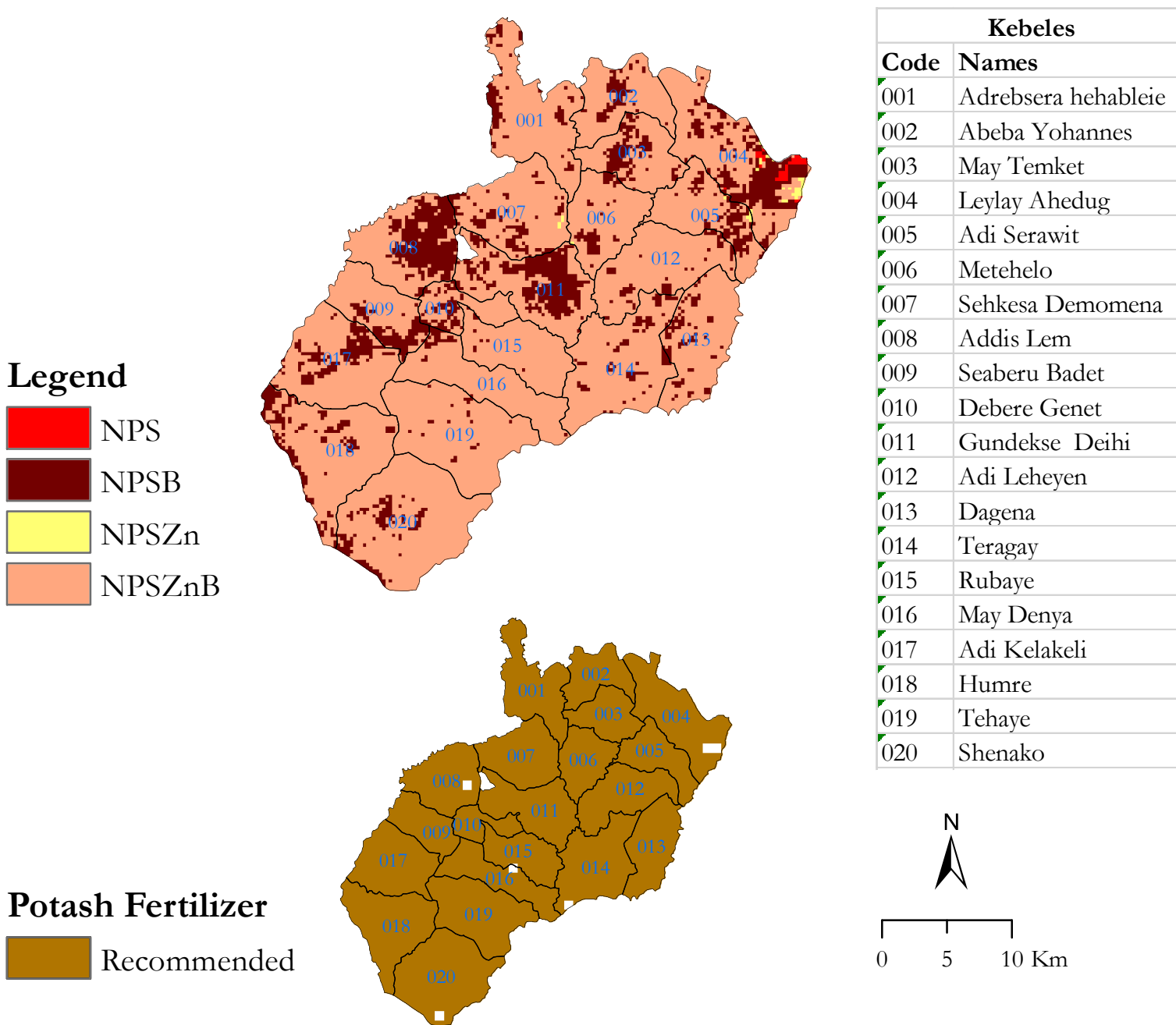
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002	Wuhidet
003	Adi Tsehafi
004	Dura
005	Medego
006	Hatsebo
007	May Weyine
008	Idega Aribi
009	Awulio
010	Mahibere Selam
011	Dereka
012	Natika Bilai



Recommended Fertilizer Types for Mereb Leha Woreda

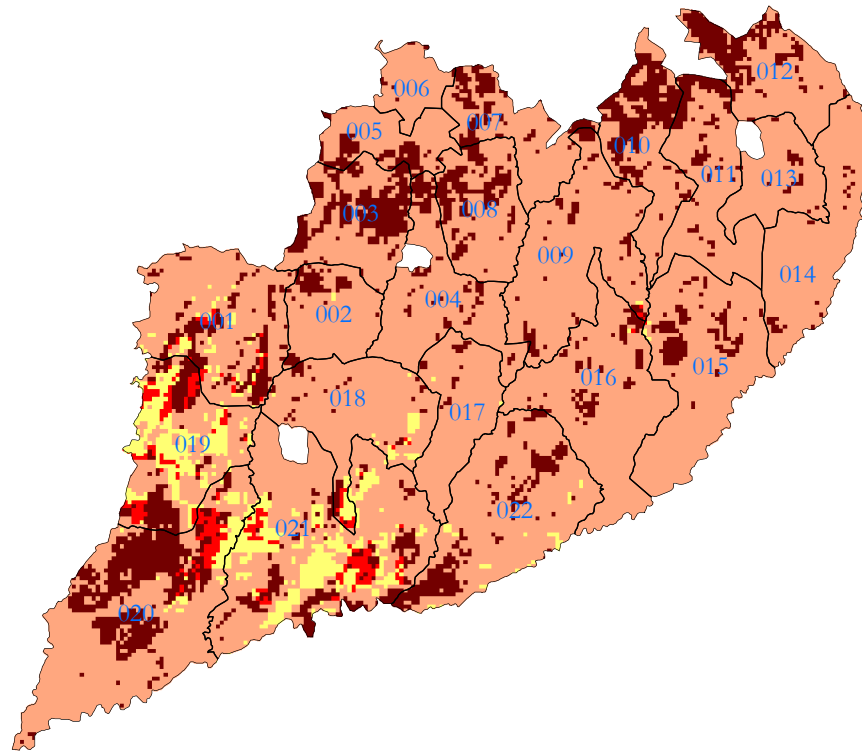
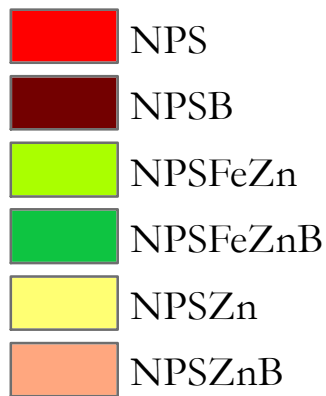


Recommended Fertilizer Types for Nader Adet Woreda



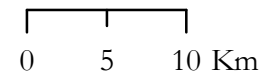
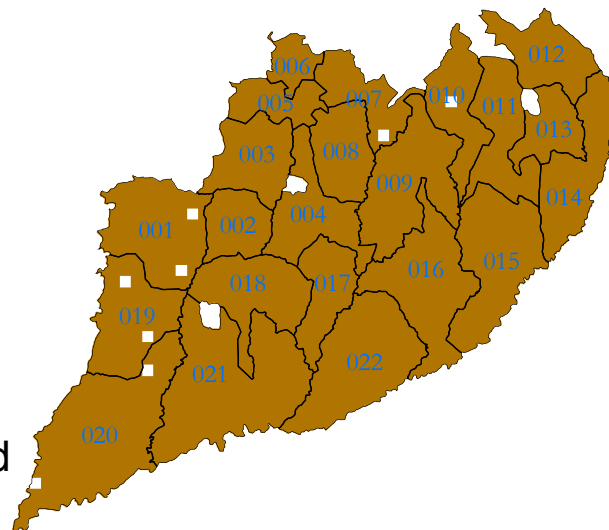
Recommended Fertilizer Types for Wereilehi Woreda

Legend

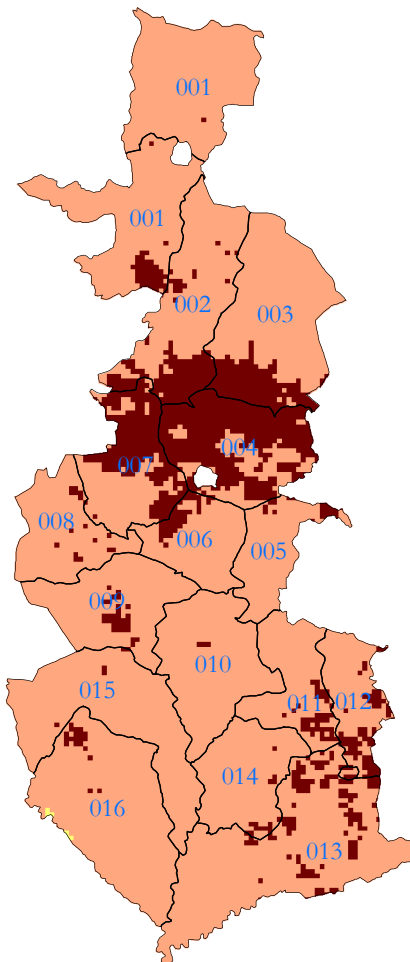


Kebeles	
Code	Names
001	Simret
002	Zongi
003	Indachiwa
004	Maikalawi
005	Wuhidet
006	Kolagebla
007	Malikuhili
008	Maychikanta
009	Idaga hamus
010	Sagui
011	Adisalem
012	Misiima
013	Maynabri
014	Maytium
015	Azmera
016	Arena
017	Hibret
018	Salam
019	Maihalsagli
020	Maysagla
021	Wari
022	Tsai

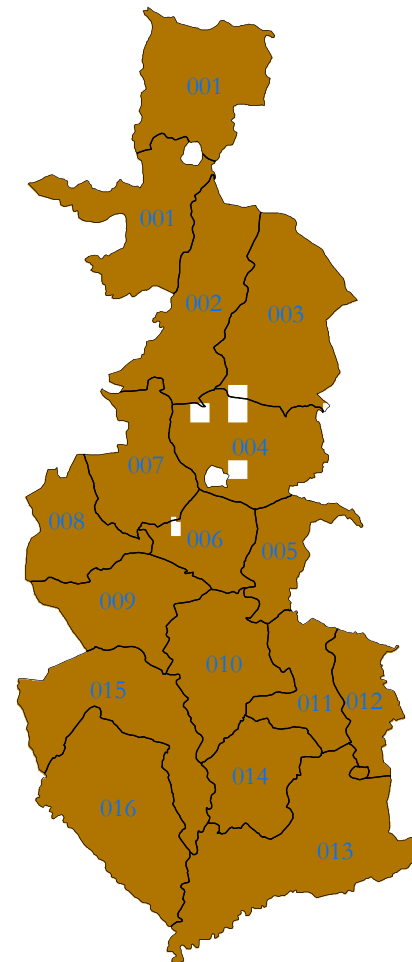
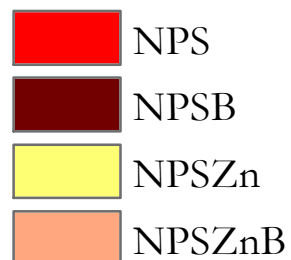
Potash Fertilizer



Recommended Fertilizer Types for Tahitay Maychew Woreda



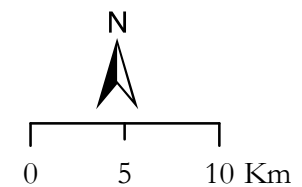
Legend



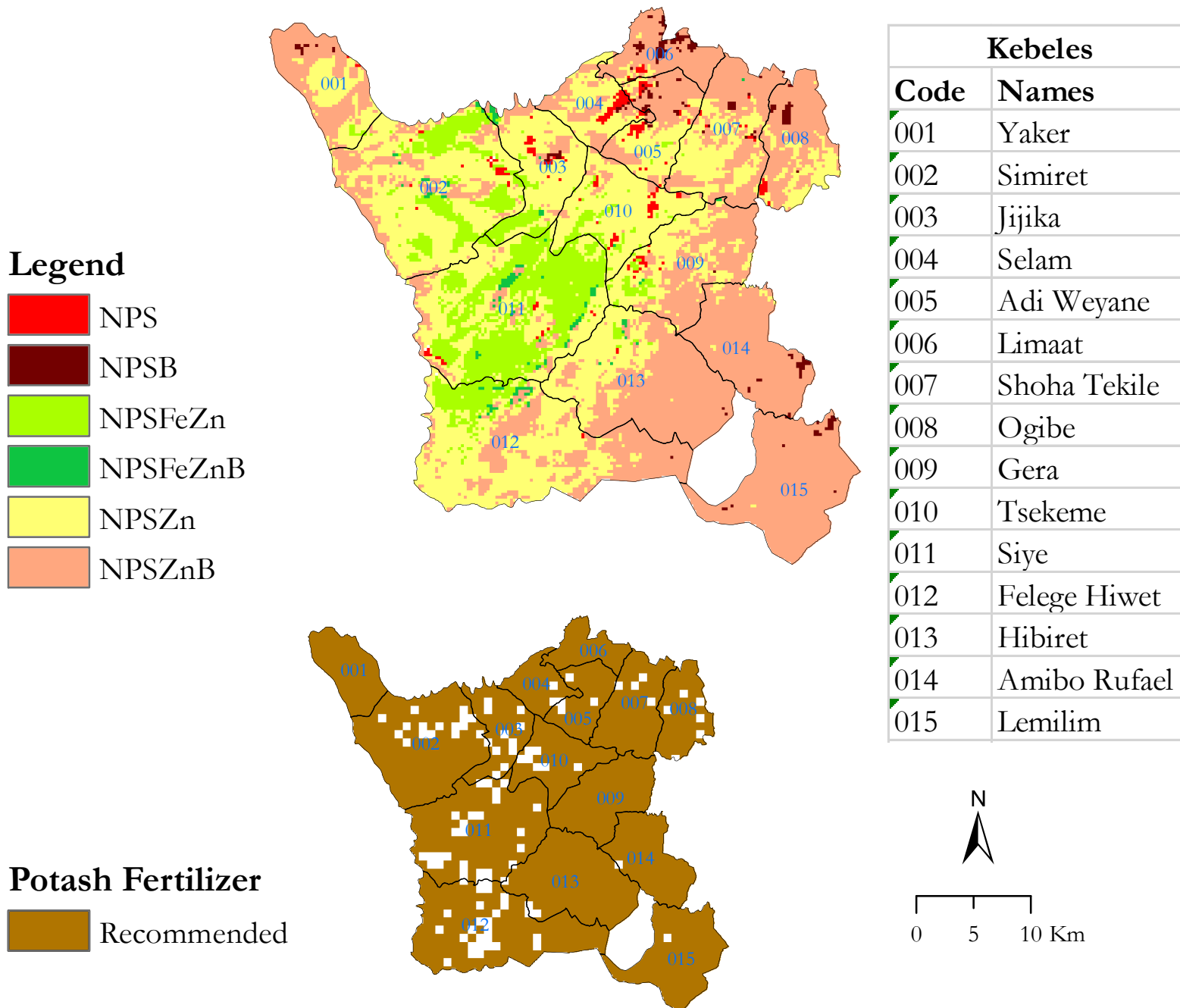
Potash Fertilizer



Kebeles	
Code	Names
001	Chsa
001	chsa
002	Rubashewit
003	Debremenkol
004	Mausese
005	Kewanit
006	Hedishadi
007	Maybrazyu
008	Akabseat
009	Mayatemi
010	Maekel
011	Mren
012	Hewusta
013	Adihuta
014	Betsemaete
015	Adigora
016	Ferima

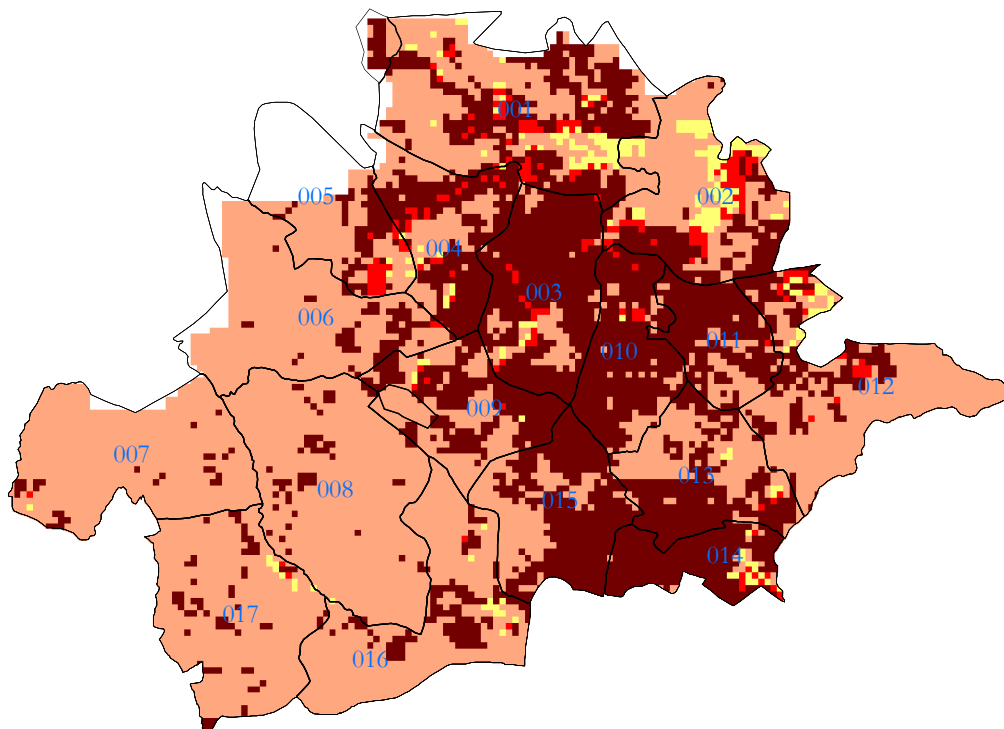
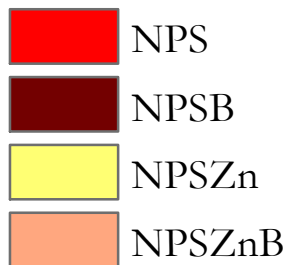


Recommended Fertilizer Types for Tanqua Abergele Woreda



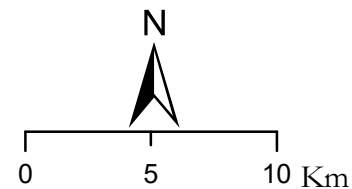
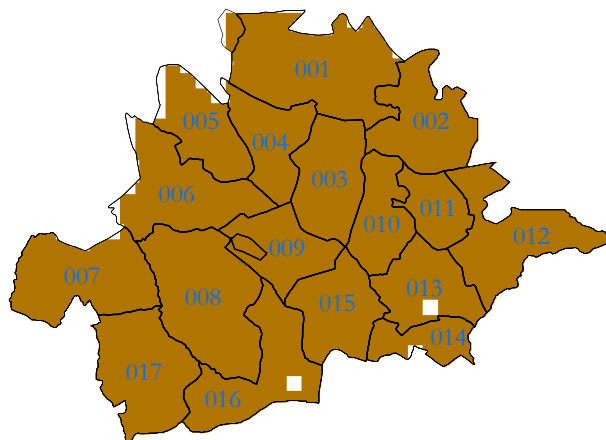
Recomended Fertilizer Types for Gulo Meheda Woreda

Legend

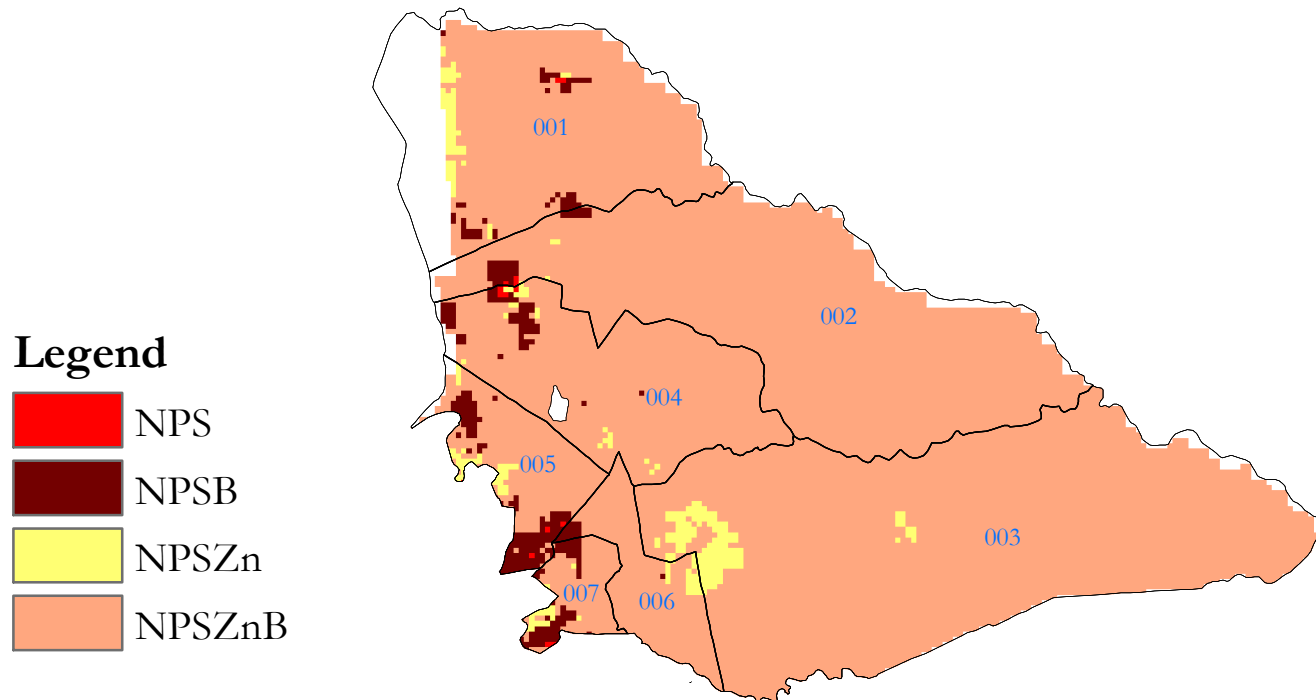


Kebeles	
Code	Name
001	Marta
002	Sebiya
003	Kiliat
004	Adi Salem
005	Adi tesfa
006	Shewit lemlem
007	Mezabir
008	Irgibay medebay
009	Ambaseta fikada
010	Heben
011	Hayelom
012	Ferede shum
013	Hagereslam
014	Maytseada
015	Kobtsiba
016	Kisadimai
017	mereta

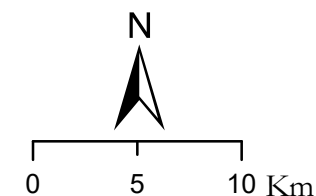
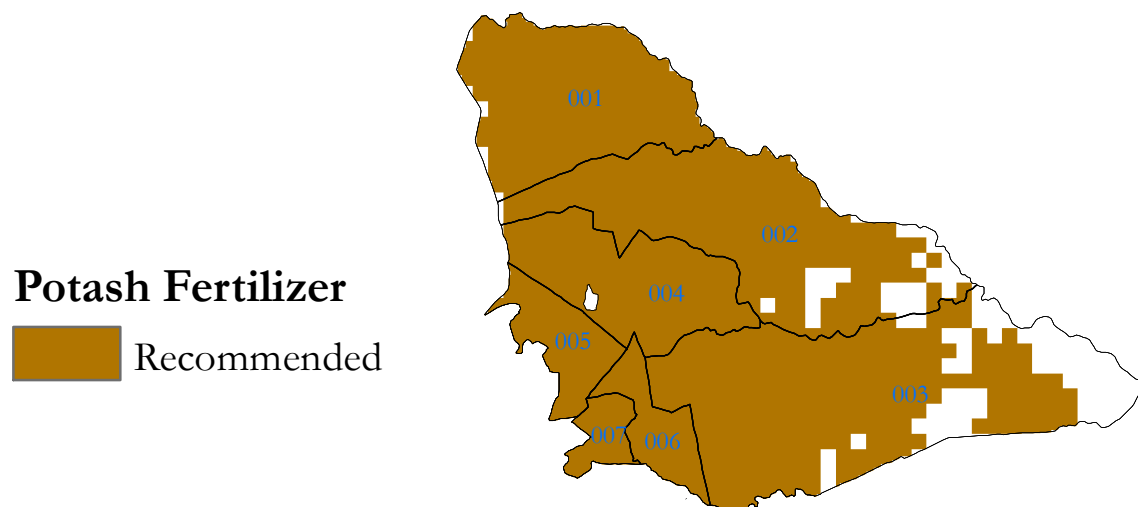
Potash Fertilizer



Recomended Fertilizer Types for Erob Woreda

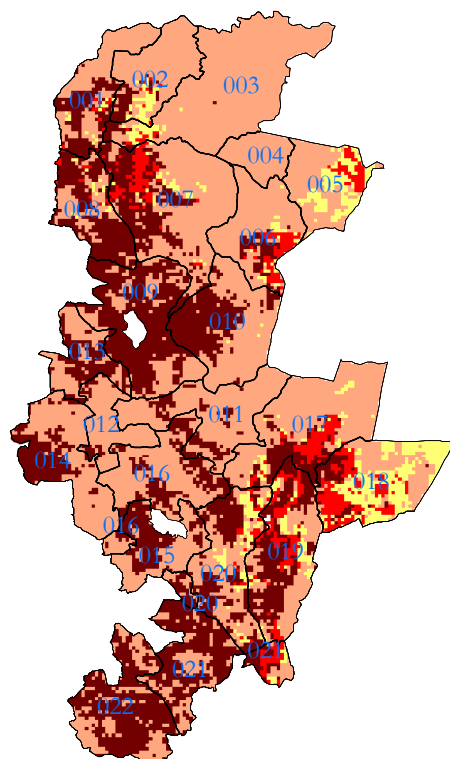
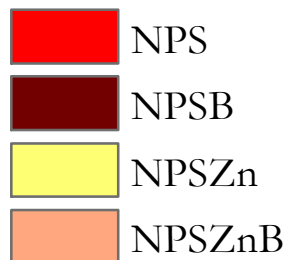


Kebele	
code	name
1	Indalgeda
2	Wer Atle
3	Ara
4	Alitena
5	Ager Lekoma
6	Harze Sebaata
7	Inda Mosa



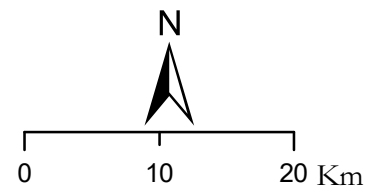
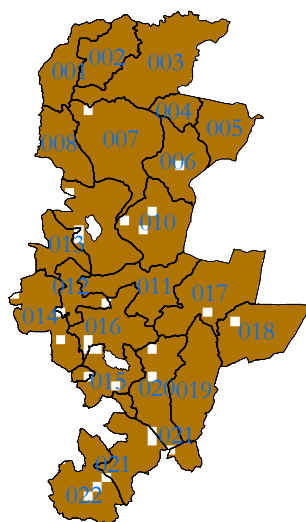
Recommended Fertilizer Types for Saesi Tsadamba Woreda

Legend

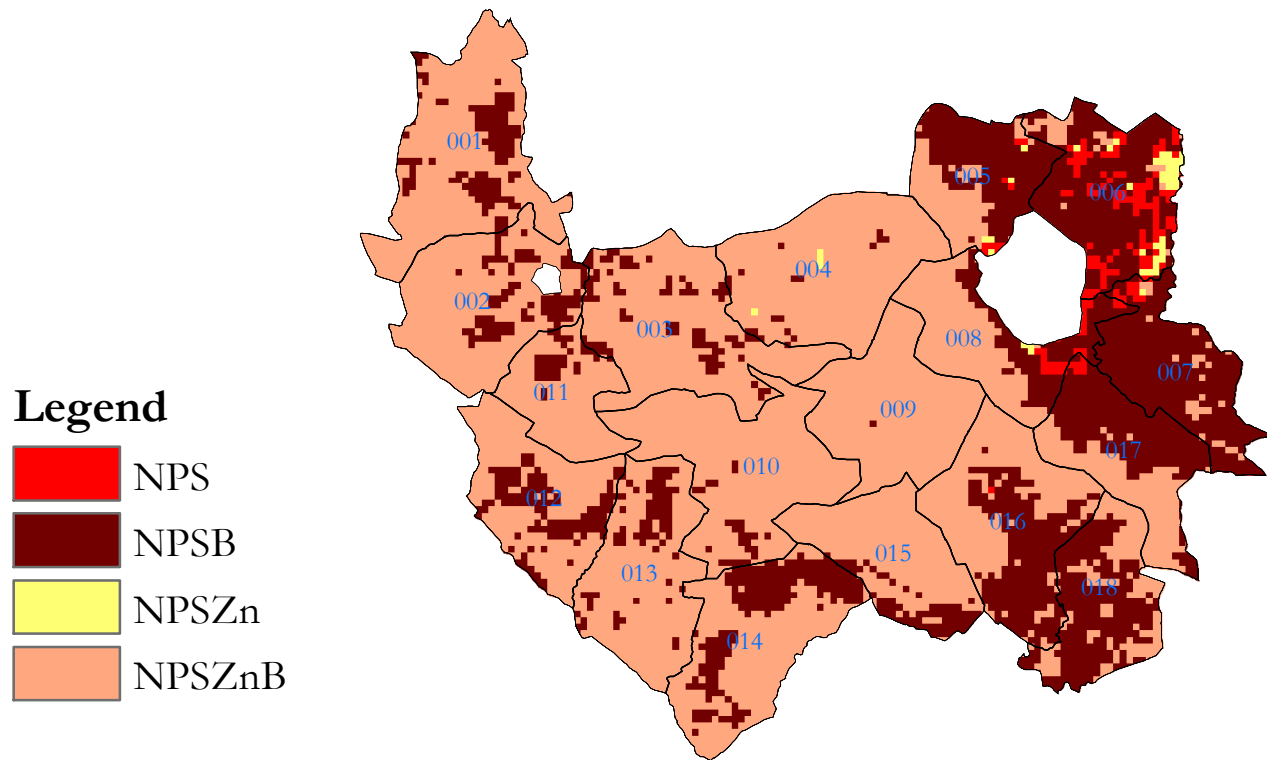


Kebeles	
Code	Name
1	Tahitay Ziban
2	Gebilen
3	Mariwa
4	Mesihul
5	Sewin
6	Meliwalo
7	Saisi
8	Koma Siwiha
9	Hadish Hiwot
10	Emiba Akemena
11	Hadish Adi
12	Hanigoda
13	Beleso
14	Egiazi
15	Siniketa
16	May Megelita
17	Raela
18	Hawil
19	Gula Abina
20	Gumis Agamat
20	Gumis Agamat
21	Sinideda
22	Saz

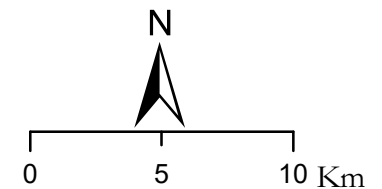
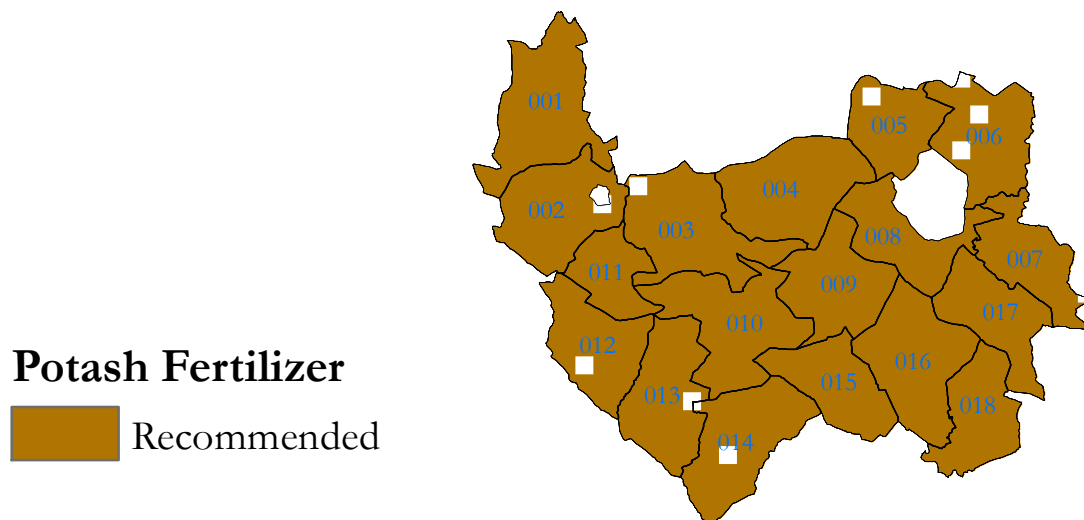
Potash Fertilizer



Recomended Fertilizer Types for Ganta Afeshum Woreda

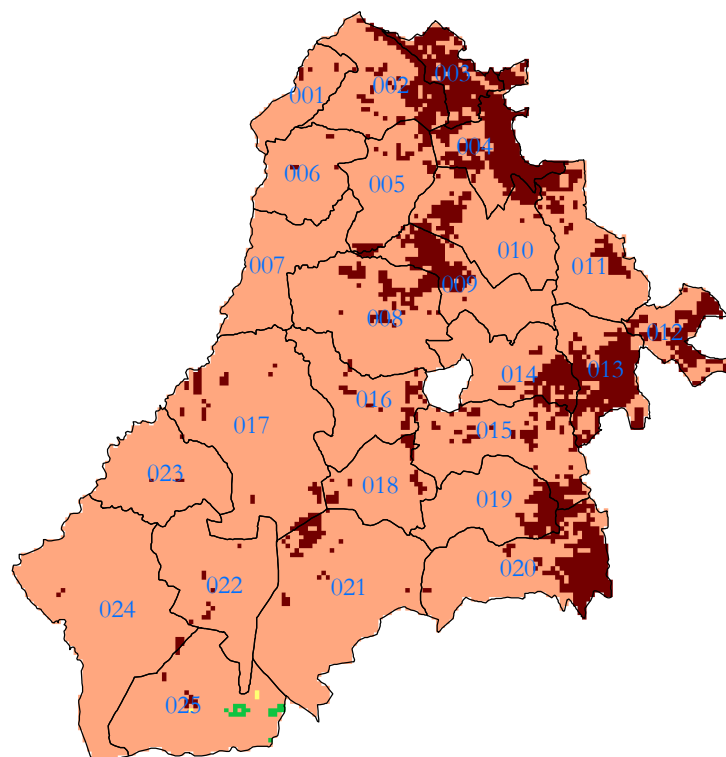
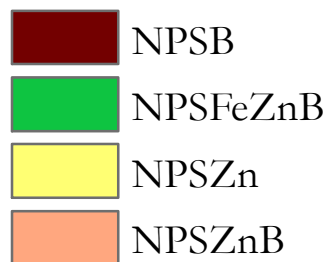


Kebeles	
code	Name
1	Wihidet
2	Simiret
3	Adikineyi
4	Meregahaya
5	Beatemayi Misat
6	Gola Genahiti
7	Sasun Betehawariyat
8	Kekot
9	Hagere Selam
10	Migulat
11	Kita Gidaba
12	Hagwa Aregwa
13	Tseada Tihamelo
14	Azabo
15	Hadinet
16	Bahirasehita
17	Dibila Siet
18	Gwahigot



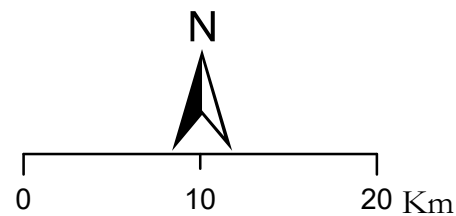
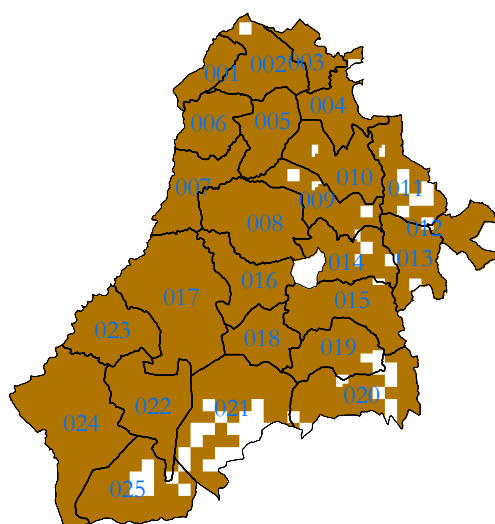
Recomended Fertilizer Types for Hawzen Woreda

Legend



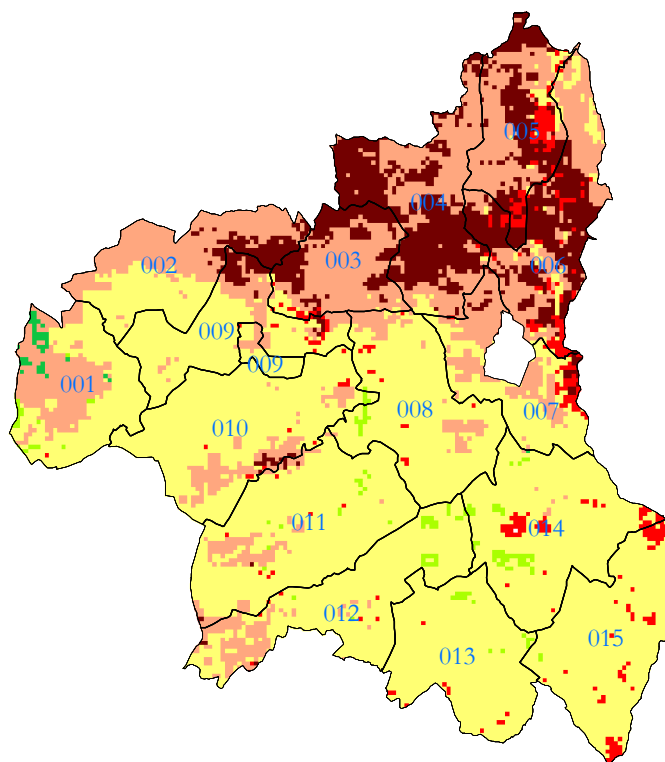
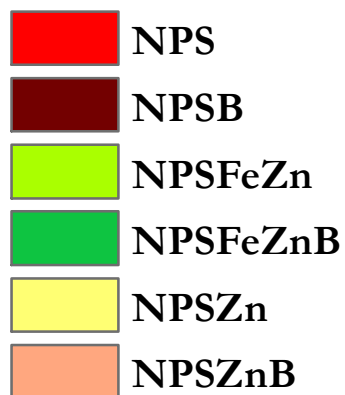
Kebele			
Code	Name	Code	Name
1	Harikwa	14	Siluh
2	D/Bizen	15	Sela
3	D/Abay	16	D/Hiywet
4	Dega Amba	17	D/Selam
5	Simiret	18	Megab
6	Shelewa	19	D/Birihan
7	Baleda	20	Digum
8	Maykado	21	Firewyini
9	Hayelom	22	Maygobo
10	Mozitey	23	Adibelew
11	Hatset	24	Koraro
12	Tsenkanet	25	Alal
13	Gira Aras		

Potash Fertilizer



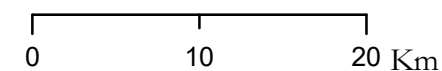
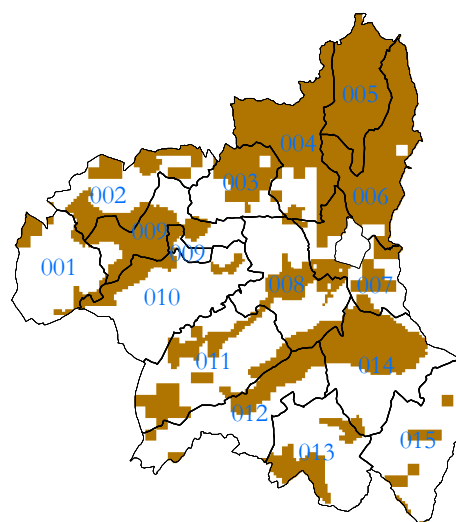
Recomended Fertilizer Types for Klite Awlalo Woreda

Legend



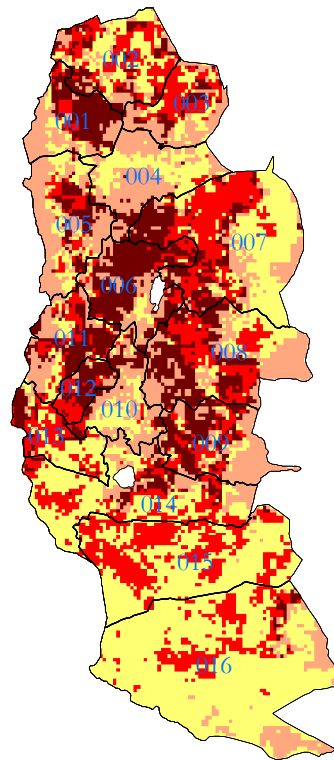
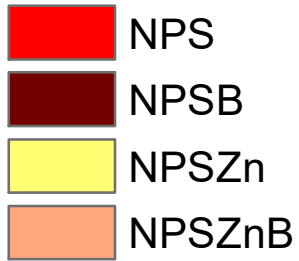
Kebeles	
Code	Name
1	Tgereda
2	Debreteyun
3	Abrhe Weatebhe
4	Gemad
5	Negash
6	Adiksandd
7	Genfel
8	Aynalem
9	Maykuha
9	Maykutha
10	Awal
11	Debrebrhen
12	Mahbereweyni
13	Kihen
14	Mesanu
15	Hadnet

Potash Fertilizer



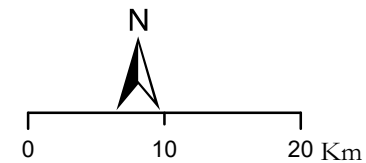
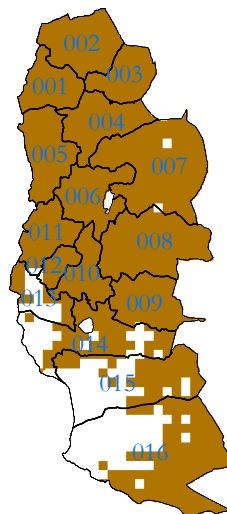
Recommended Fertilizer Types for Atsbi Womberta Woreda

Legend

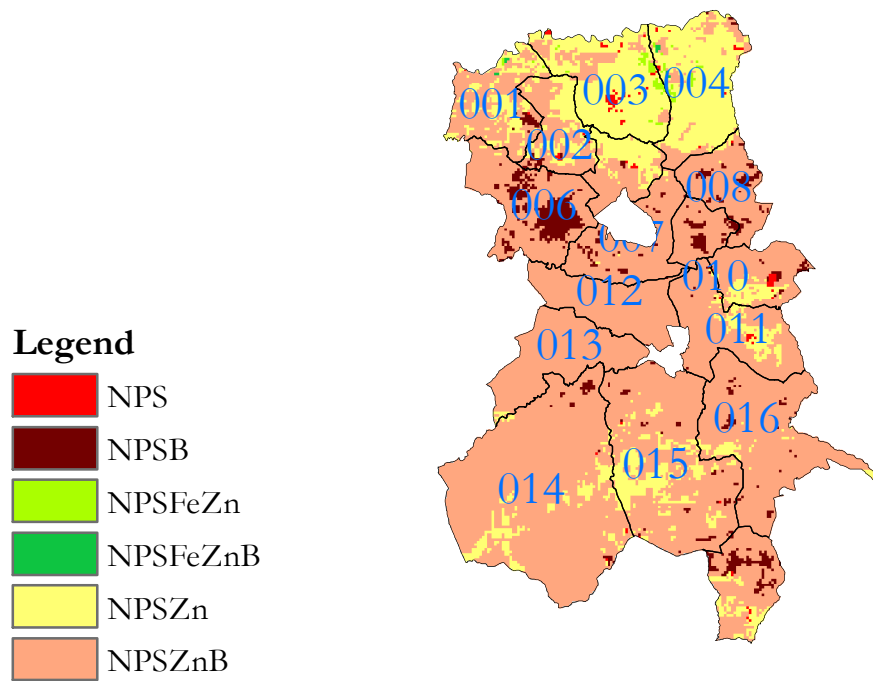


Kebeles	
Code	Name
1	Hadinet
2	Gebire Kidan
3	Haresawu
4	Rubafeleg
5	Zarema
6	Naile
7	Felege Weyini
8	Kal Amin
9	Kael Amiba
10	Barika Adis
11	Adi Mesanu
12	Habebe
13	Dibab Ahoren
14	Hayelom
15	Era
16	Kelisha Imini

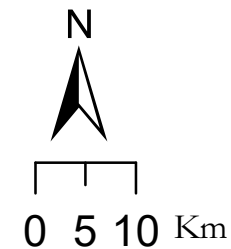
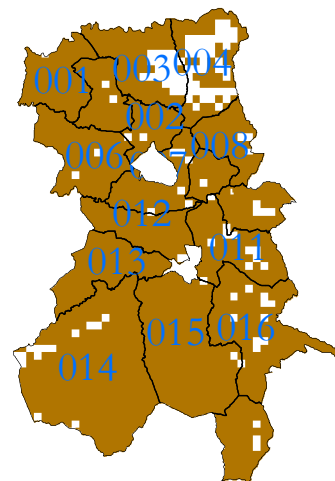
Potash Fertilizer



Recommended fertilizer type for Seharti Samre Woreda

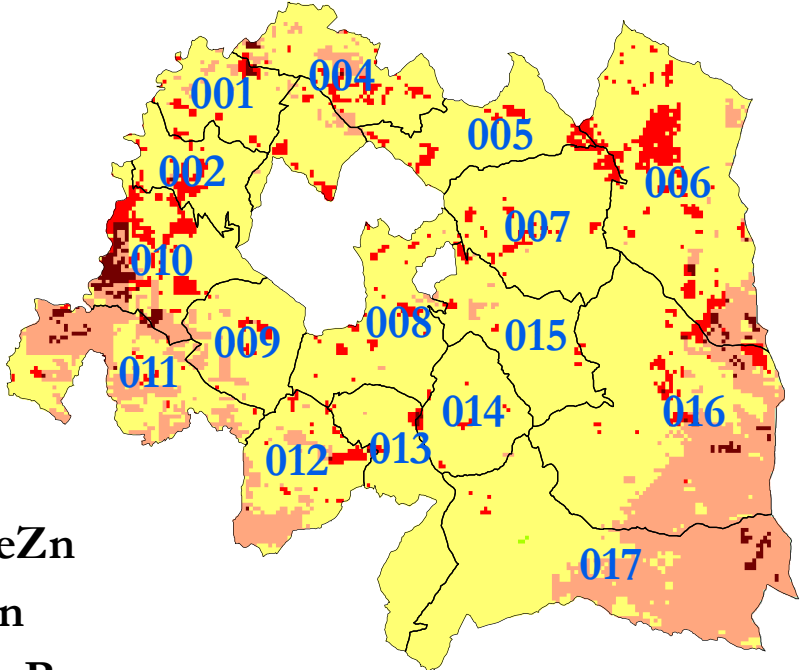
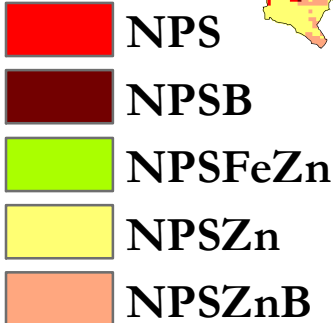


Kebele	
Code	Name
001	Addis Alem
002	Adi Kaila
003	Adi Shisha
004	Amdi Woyane
005	Bemba
006	Chliesret
007	Dekera
008	Fere Woyane
009	Hadash Lemlem
010	Hensta Waza
011	Lemlem Arena
012	Mariam Moko
013	May Kana
014	May Tehili
015	Metkelili Meiat
016	Nebar Hadinat
017	Tashi



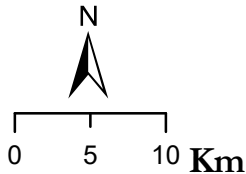
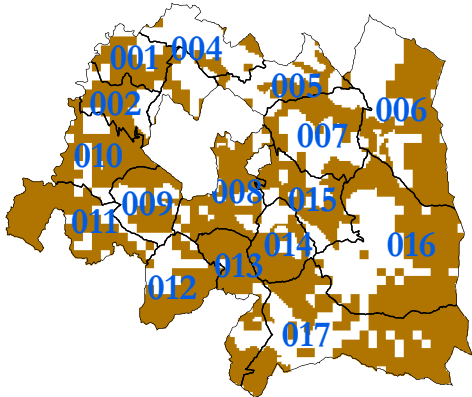
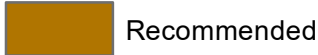
Recommended fertilizer for Enderta Woreda

Legend



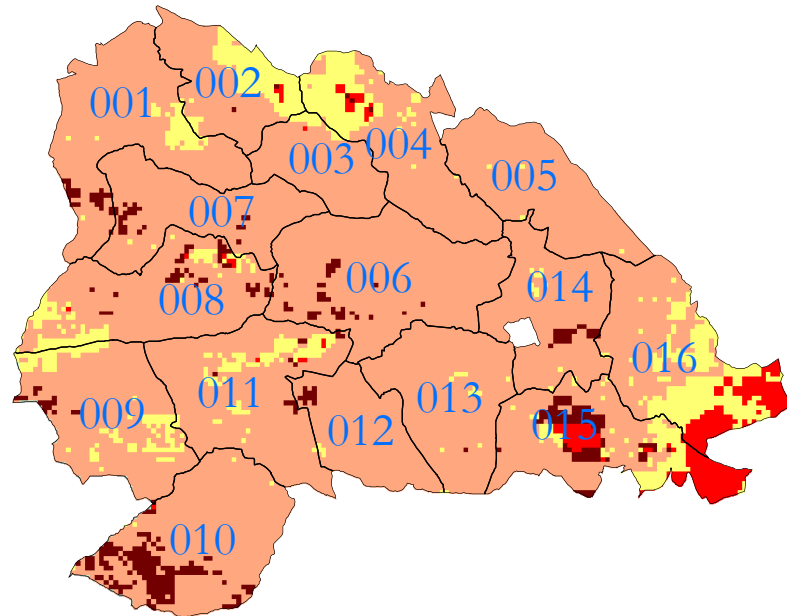
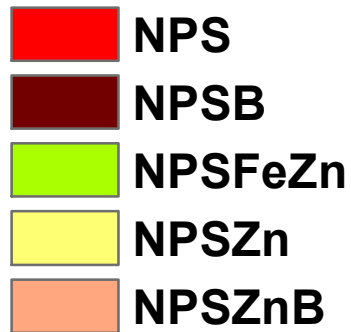
Kebele	
Code	Name
001	Arato
002	Chelekoti
003	Darega Ajeni
004	Debiri
005	Didiba
006	Falage Mayati
007	Felege Salame
008	Hebite
009	Lemele
010	Mahibere Genet
011	Mareyame Dahane
012	Masobo
013	Maye Aleme
014	Maye Tsedo
015	Mayei Anibrsa
016	Mayi Genete
017	Mesarete

Potash fertilizer



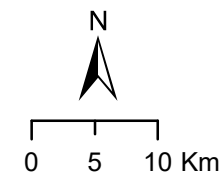
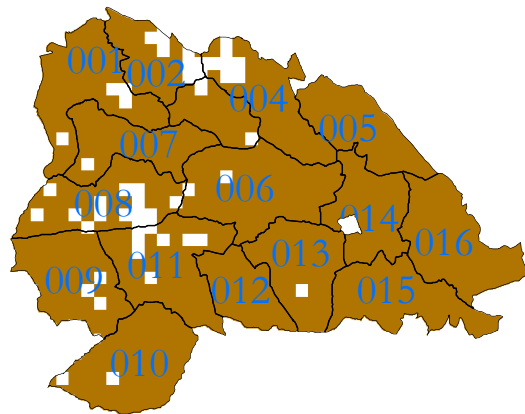
Recommended fertilizer for Ambalage Woreda

Legend



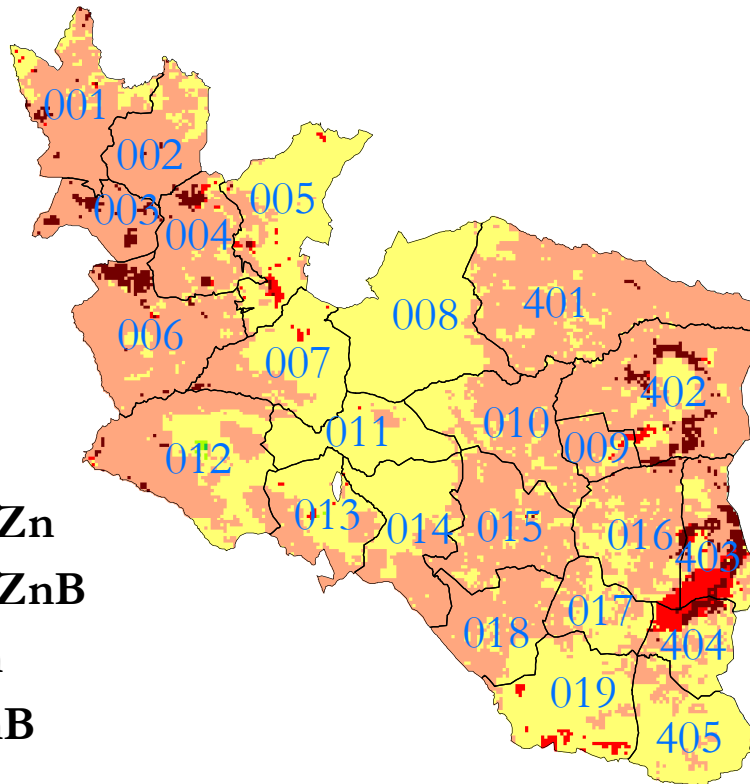
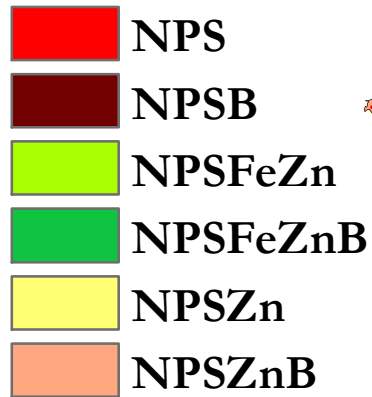
Kebele	
Code	Name
001	Abeda
002	Abinet
003	Amedewuha
004	Atesla
005	Ayiba
006	Fana
007	Kilima
008	Mayilihal
009	Semiret
010	Seret
011	Sesat
012	Tehia
013	Tehiliweyane
014	betimera
015	dejen
016	keyihitehili

Potash fertilizer

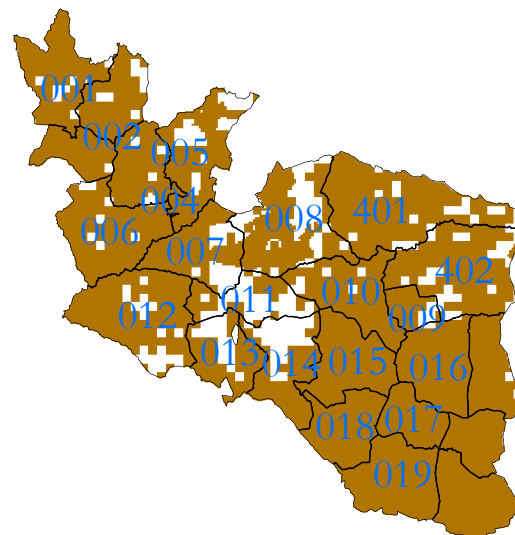


Recommended fertilizer for Hinatalo Wajirat Woreda

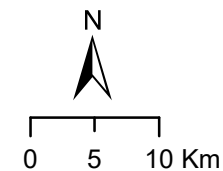
Legend



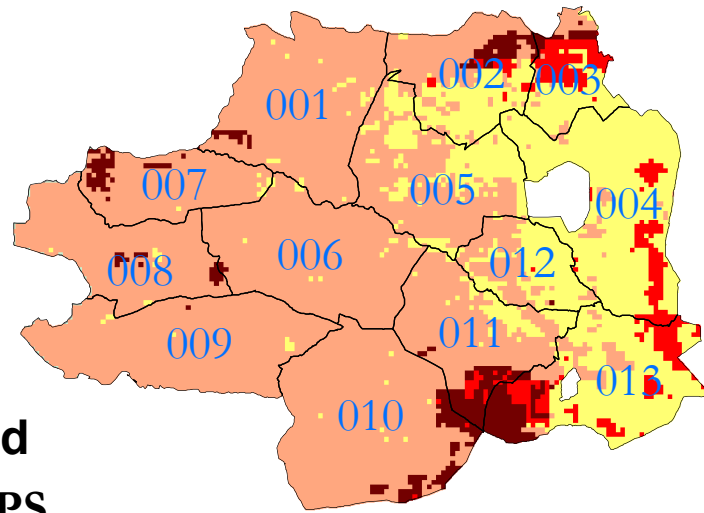
Kebele	
Code	Name
001	
002	
003	Adi Keyih
004	Adi Keyih
005	Adi Mesino
006	Amidi Weyane
007	Ara Alem
008	Bahari Tseba
009	Dejen
010	Fikire Alem
011	Gonika
012	Hagere Selam
013	Hareko
014	Hintalo
015	Hiwane
016	Mayi Nebiri
017	Metekel
018	Muja
019	Sebebera
020	Seniale
021	Seniale
022	Tsehafiti
023	Tsehafiti
024	Waza Adi Awana



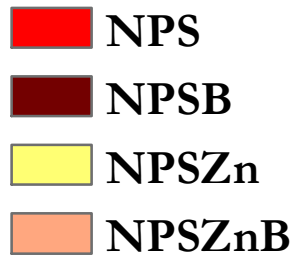
Potash fertilizer



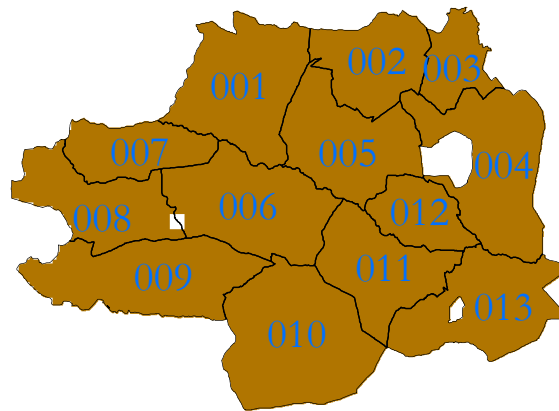
Recommended fertilizer for Endamhone Woreda



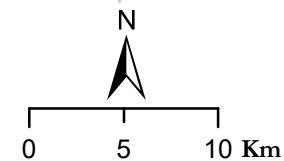
Legend



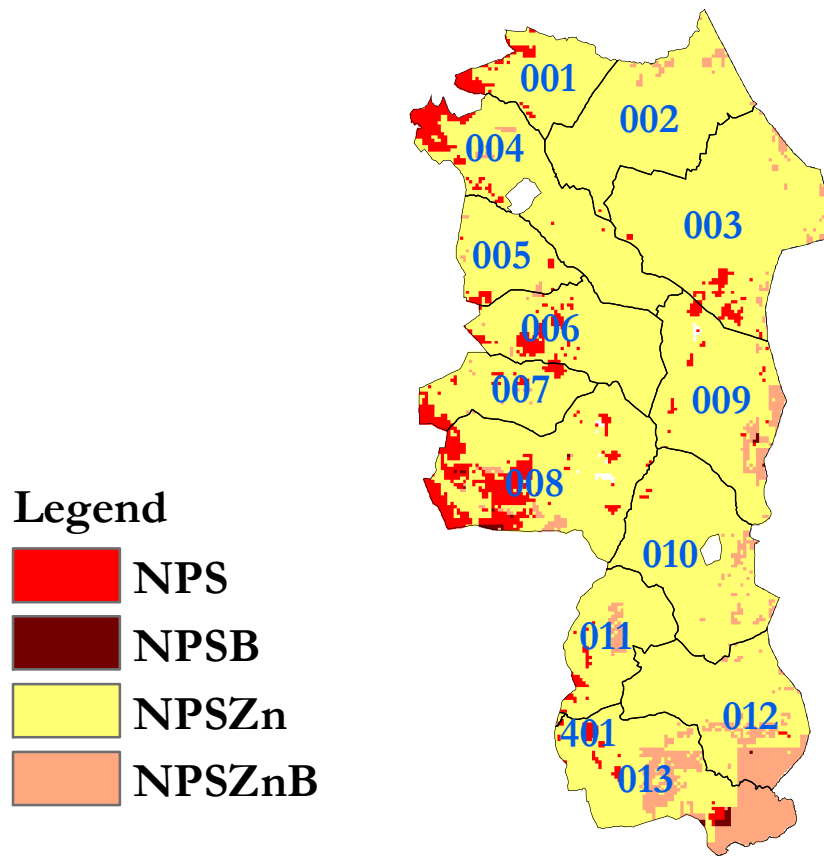
Kebele	
Code	Name
001	Arenna
002	Duum
003	Hezeba T/ Haymanot
004	Jema
005	Kereya Kanfa
006	Mehan
007	Nikah
008	Semret
009	Senay
010	Shemtagesawsa
011	Tach Haya
012	Tsebet
013	embahasti



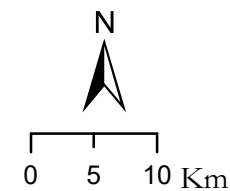
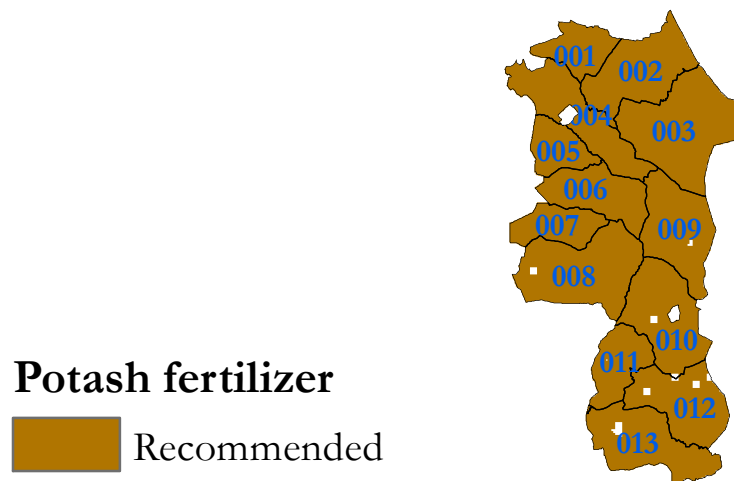
Potash fertilizer



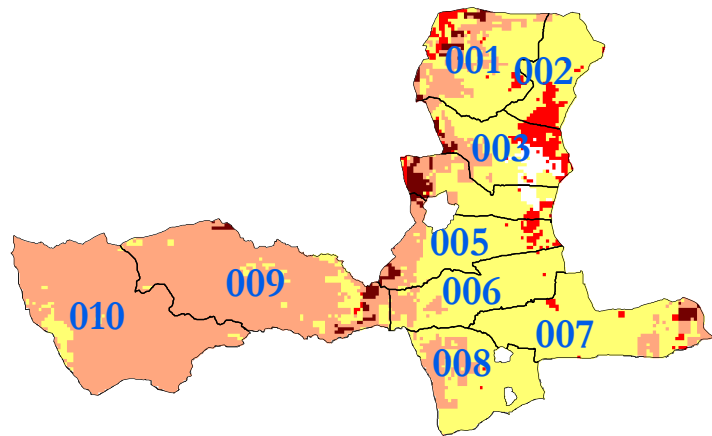
Recommended fertilizer for Raya Azebo Woreda



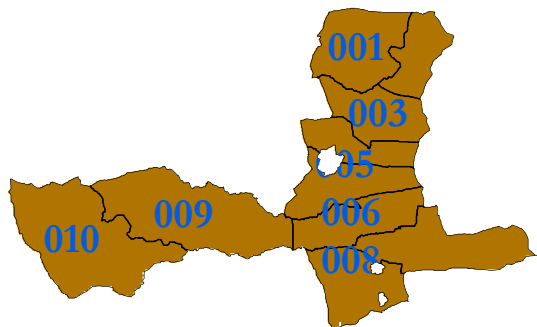
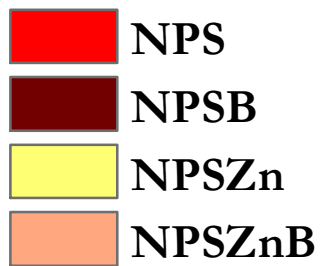
Kebele	
Code	Name
001	Baleulaga
002	Corme
003	Ebo
004	Genete
005	Hadiqingi
006	Hadiqingi
007	Hawulti
008	Heda Alga
009	Kara Adishu
010	Keku Fito
011	Maru
012	Mechara
013	Tsigawargiba
014	Wera Baye



Recommended fertilizer for Alamata Woreda



Legend

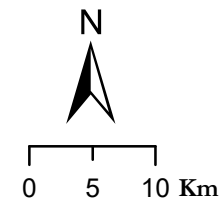


Potash fertilizer



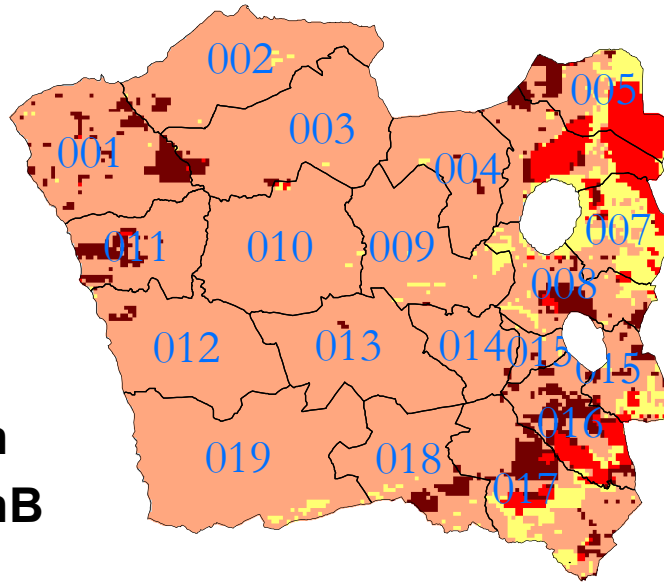
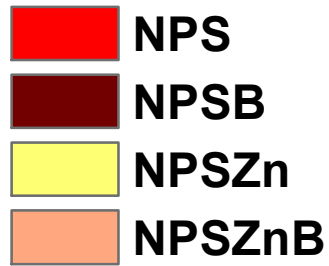
Kebele

Code	Name
001	Gerejale
002	Hulegize Lemlem
003	Laelay Dayo
004	Lemeat
005	Merewa
006	Selam Beqalesi
007	Selen Weha
008	Tao
009	Temuga
010	Tsetsera

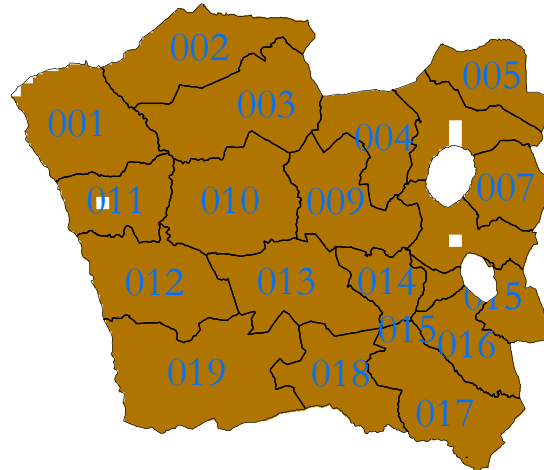


Recommended fertilizer for Ofla Woreda

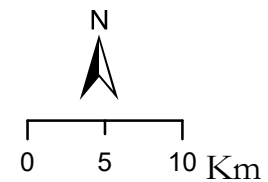
Legend



Kebele	
Code	Name
001	Adi Golo
002	Adisham Bereket
003	Dara bekeda
004	Denka Ashena
005	Fala
006	Fekere Wolda
007	Guara
008	Hashenge
009	Hayalo
010	Hegumberda
011	Lat
012	Menkere
013	Sasela
014	Selam Bekelisi
015	Semeret
016	Stelgo
017	Wenberet
018	Zata
019	kidana

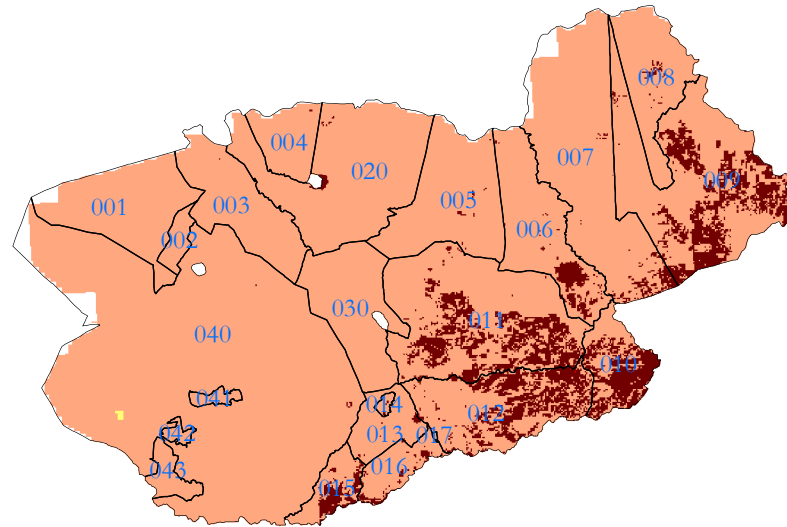
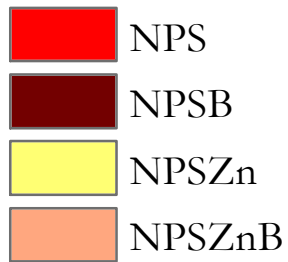


Potash fertilizer



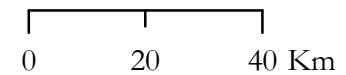
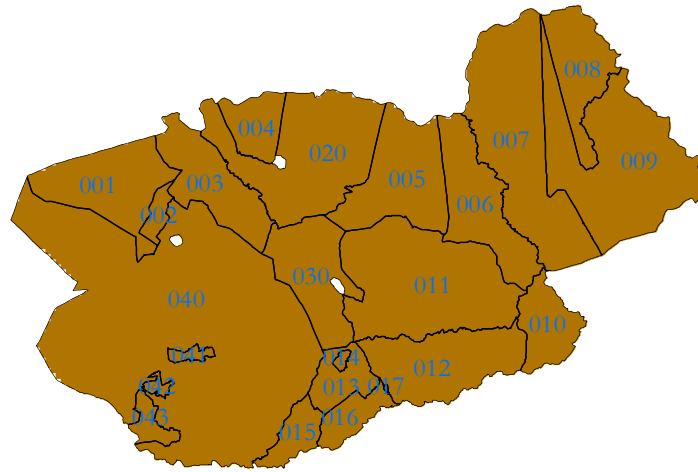
Recommended Fertilizer Types for Qafta Humera Woreda

Legend



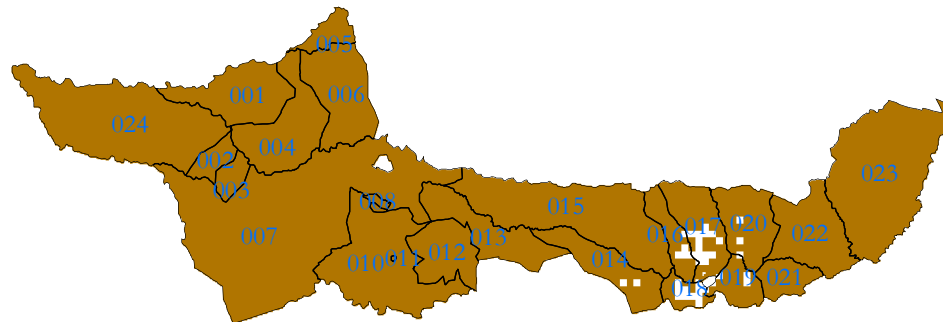
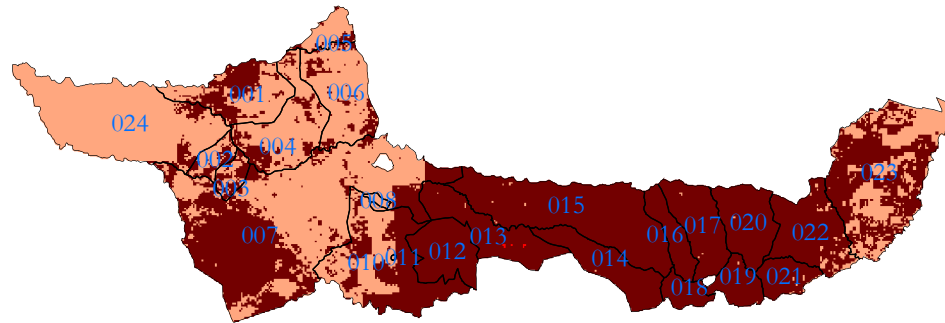
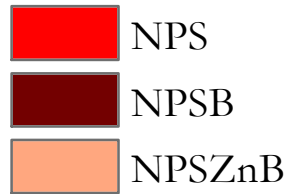
Kebeles	
Code	Names
001	Bereket
002	Central
003	Rawoyan
004	Helet Coka
005	Hagere Selam
006	Woheadet
007	May Woyeni
008	Kunama Adi Goshe
009	Habesha Adi Goshu
010	Sola
011	Adi Hiredi
012	Adi Stester
013	Terkan
014	Ayedola
015	Shegelele
016	Ruwasa
017	Erop
020	Adebaye Geter
030	Biher Geter
040	May Cadera Geter
041	Nuguara Ersha
042	Nuguara Ersha
043	Banat Ersha

Potash Fertilizer



Recommended Fertilizer Types for Tsegede Woreda

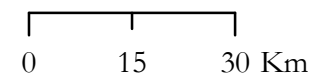
Legend



Potash Fertilizer

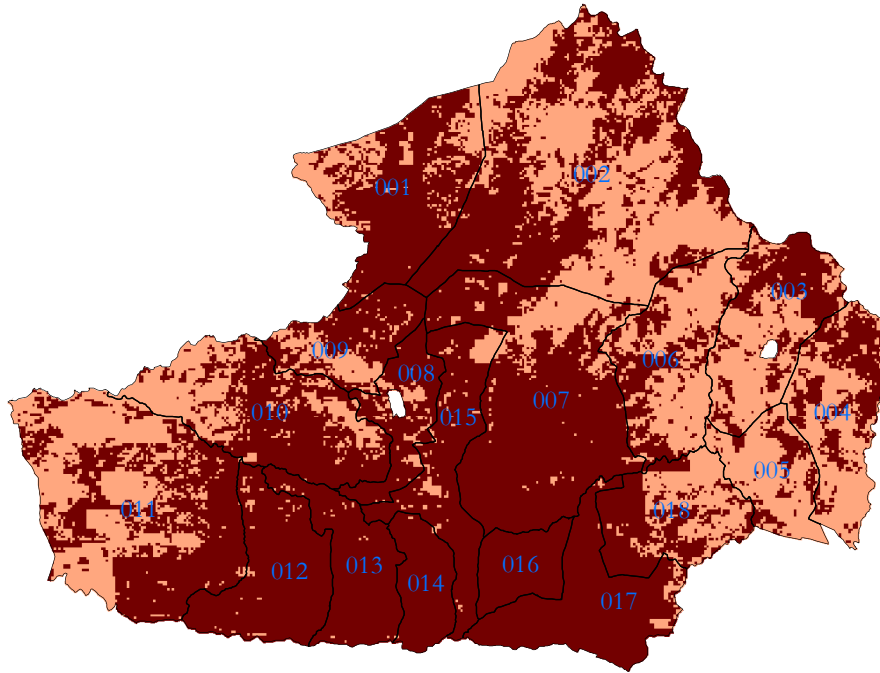
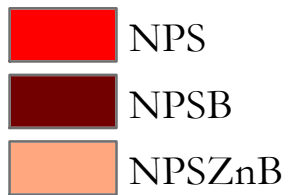


Kebeles	
Code	Names
001	Werie
002	Hadish Adi
003	Emba Genet
004	Lekatit
005	Ruba Lomin
006	Dedebit
007	Zuriya Danisha
008	Alula
009	Lemlem
010	Mayidele
011	Hayalom
012	Debre Hawariya
013	Mayiwedise Lehado
014	Dara
015	Shehagine
016	Hinitabilo
017	Ende Silase
018	Chekar Kudo
019	Ende Mariyam
020	Ende M/Alem
021	Walika
022	Adi Berigera
023	Adi Alem
024	Kebebew Erisha



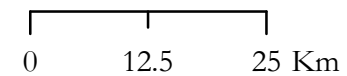
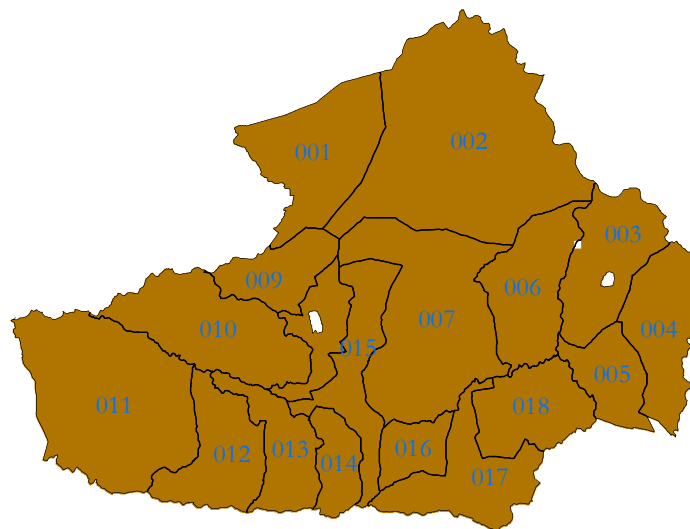
Recommended Fertilizer Types for Welqayet Woreda

Legend



Kebeles	
Code	Names
001	Kuleta
002	Tsebre
003	Maygaba
004	Maycheho
005	Desasa Kekaha
006	Lalaye Mayhumer
007	Sherela
008	Wefargef
009	Belaba
010	Adigaba
011	Awerke
012	Selasa Ayena
013	Awera
014	Shekuda
015	Dejena
016	Medera Weyzero
017	Debremariyam
018	Mado Temket

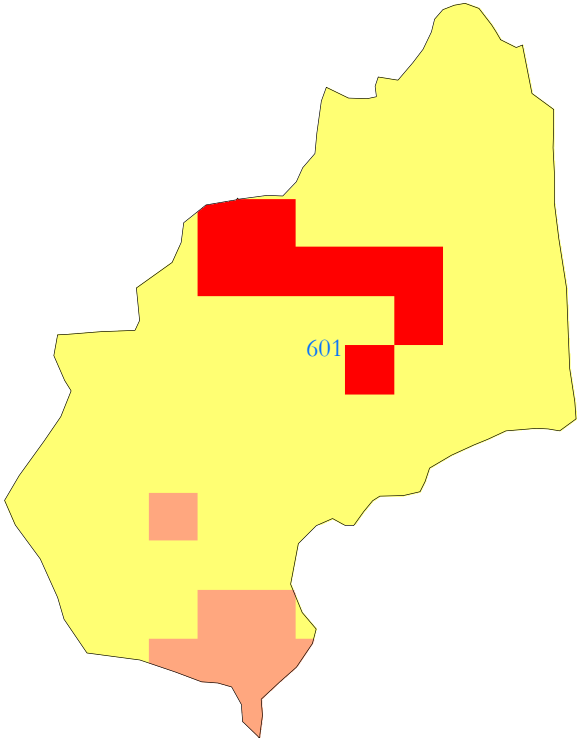
Potash Fertilizer



Recommended Fertilizer Types for Debub Mekele Qiha Woreda

Legend

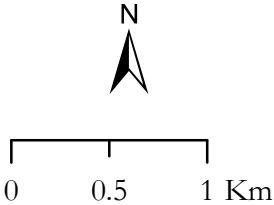
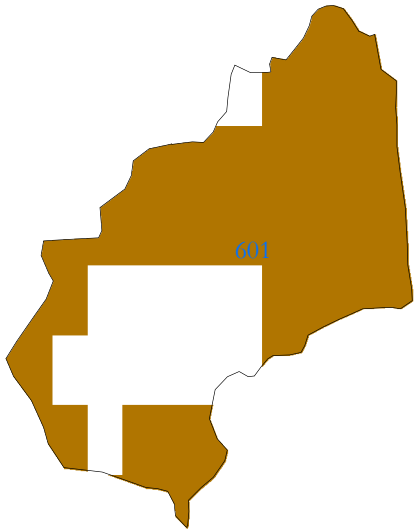
- NPS
- NPSZn
- NPSZnB



Code	Kebela
601	Debub Mekele Qiha

Potash Fertilizer

- Recommended



References

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- Abush Tesfaye, Mwangi Githiri, John Derera and Tolessa Debele (2011). Subsistence Farmers Experience and Perception about Soil and Fertilizer use in Ethiopia. *Ethiopia. J.Appl. Science Technol* 2(2): 61 - 74 (2011).AfSIS: Africagrid.net
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Contact Addresses

Ministry of Agriculture and Natural Resources

<http://www.moa.gov.et>
Tel: +251-116460746
Fax: +251-116460651
P.O.Box 62347
Addis Ababa,
Ethiopia

Agricultural Transformation Agency

<http://www.ata.gov.et>
Tel: +251-115-570679
Fax: +251-115-570668
P.O.Box 708
Addis Ababa
Ethiopia



One of the five Fertilizer Blending Plants at Tulu Bolo (owned by Becho Weliso Farmer's Cooperative Union)



Wheat planted with blended fertilizer in Enderta Woreda, Tigray



Tef planted with blended fertilizer in Enderta Woreda, Tigray



With balanced fertilization, maize could bear four productive cobs at Dabo Hana, Oromia