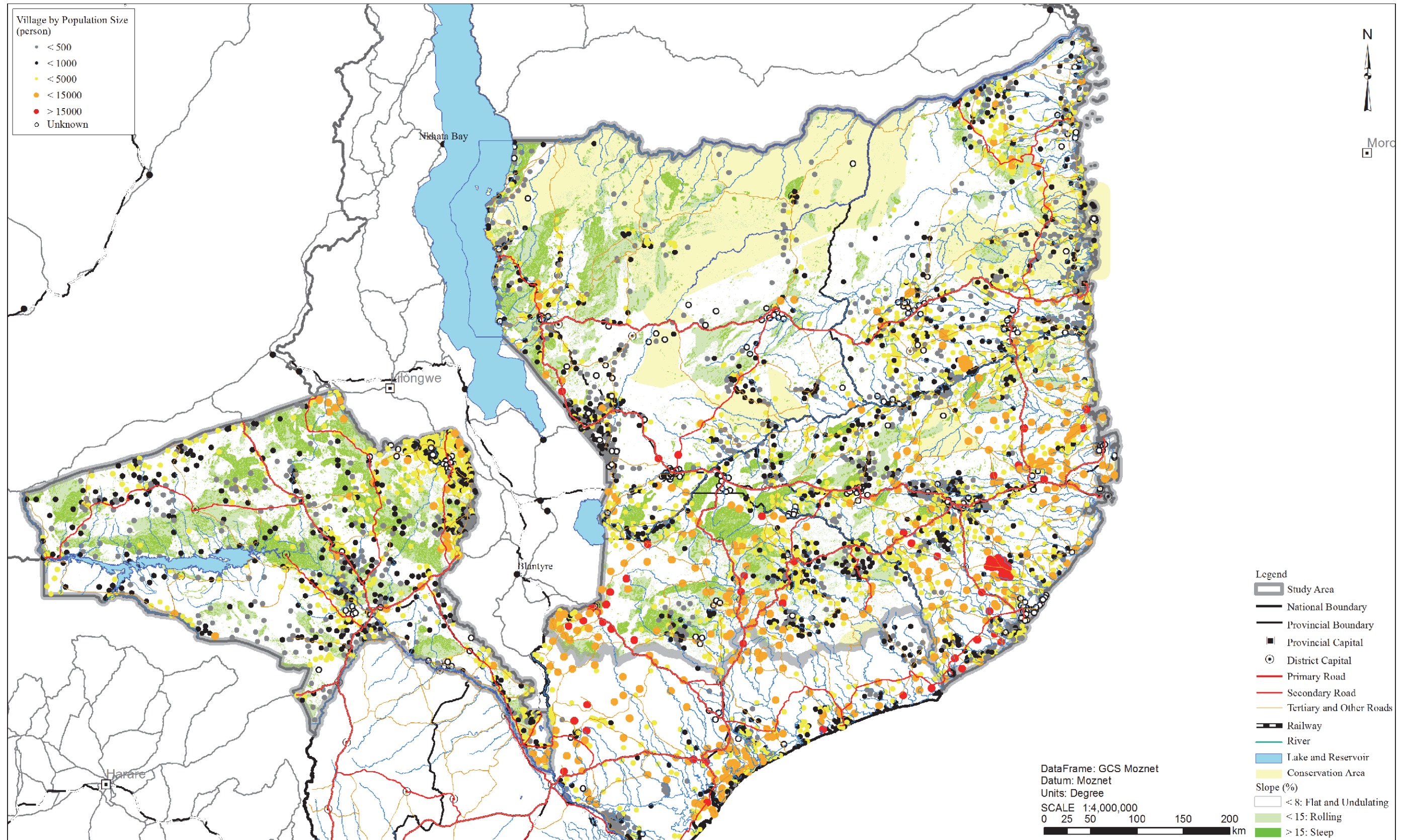


## B. Existing Conditions / B-3 Population Distribution

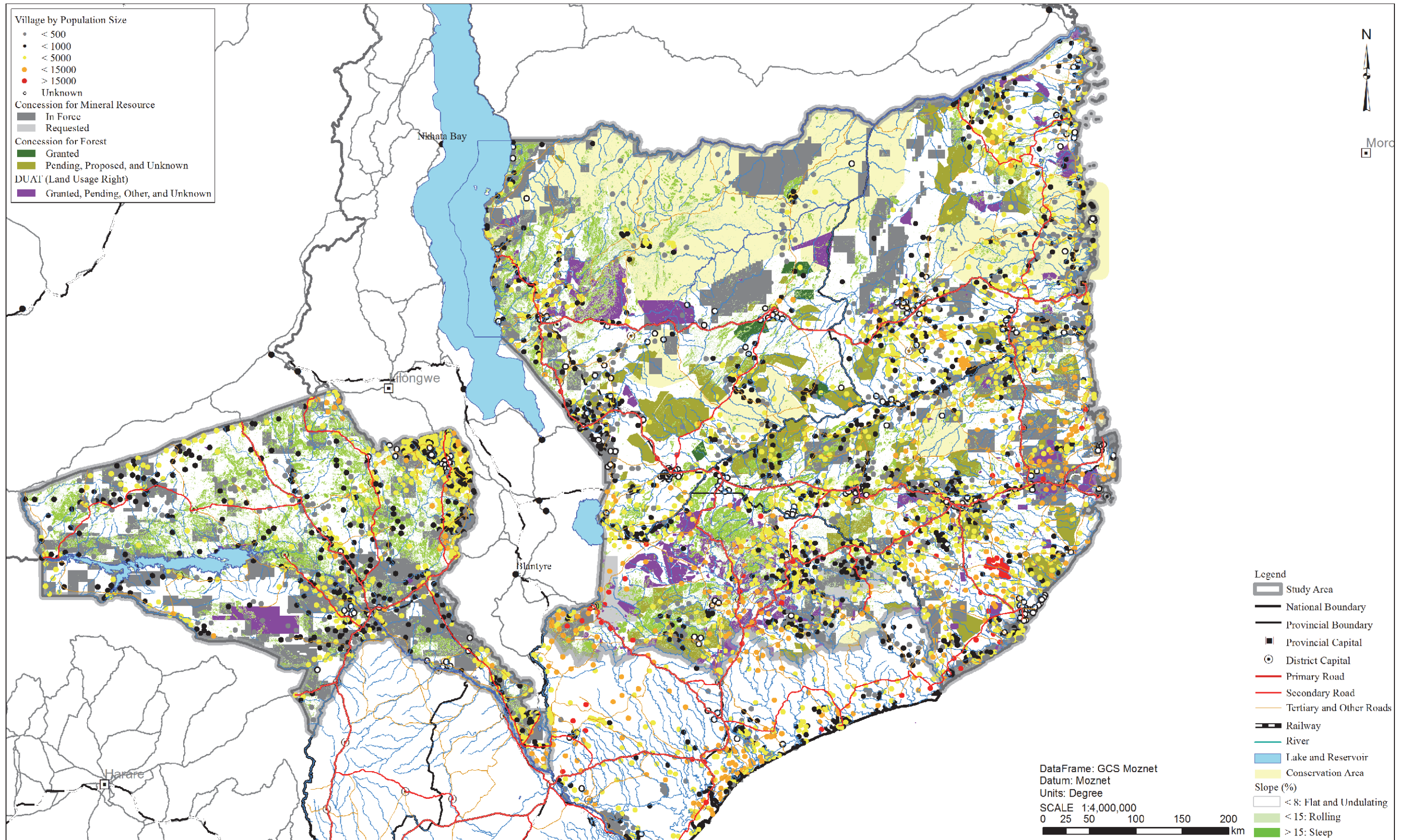
[B-3-1] Distribution of Settlements [2007]



Village point data with population is extracted by the Census data in 2007

## B. Existing Conditions / B-3 Population Distribution

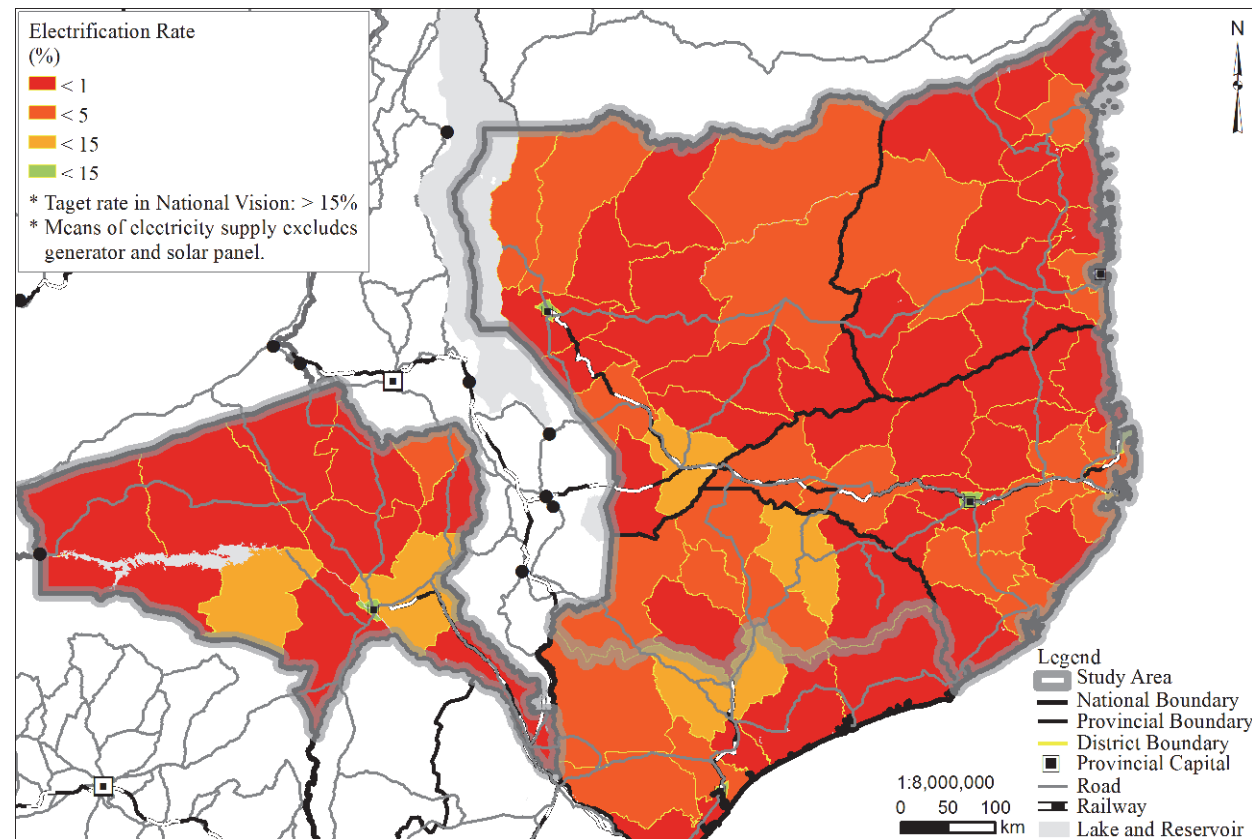
[B-3-2] Existing Land Availability: overlapped by the information of Settlements (2007), Concession Area (as of 2013), Conservation Area and Slope (%) Condition



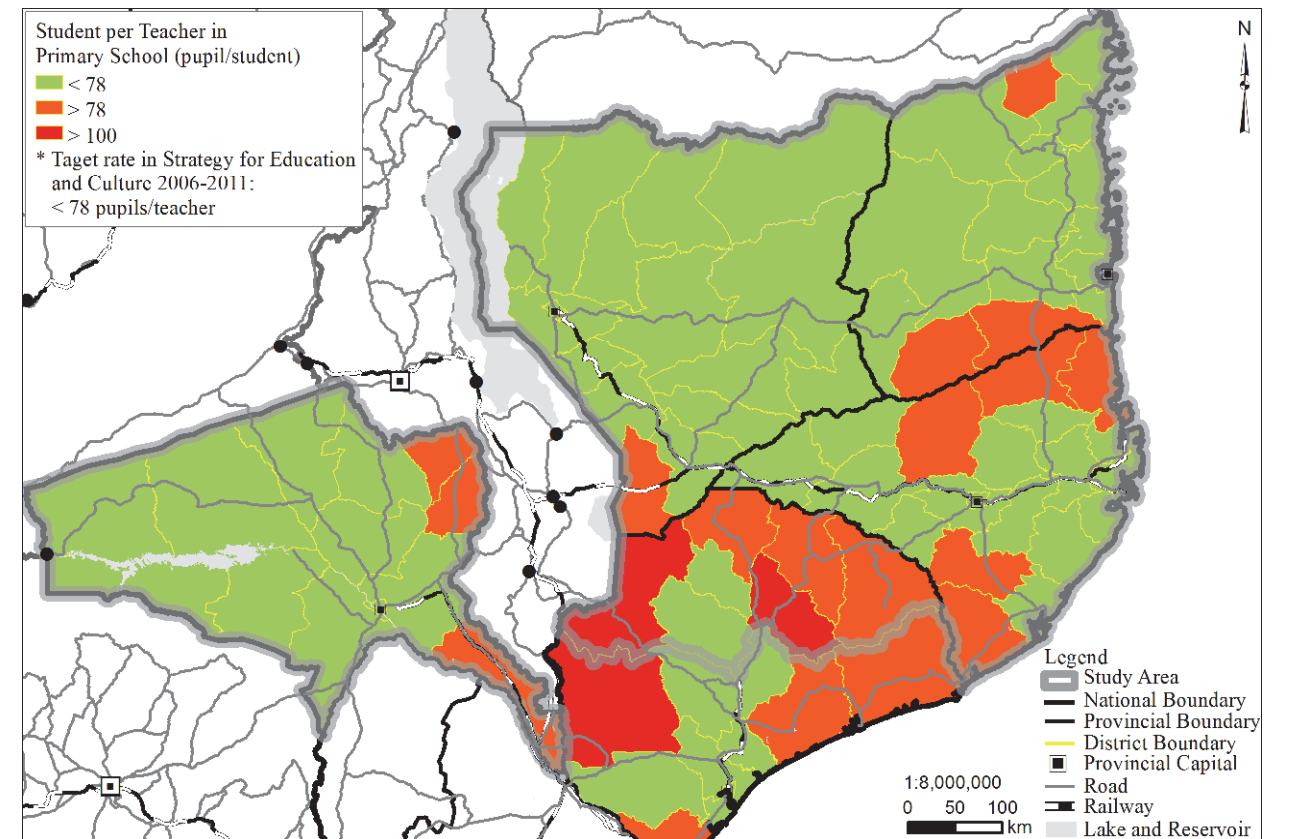
The area where is more than 8% or 15% of its slope implies the difficulties of kinds of development.

## B. Existing Conditions / B-4 Social Service Condition by District, INE Statistics (2007)

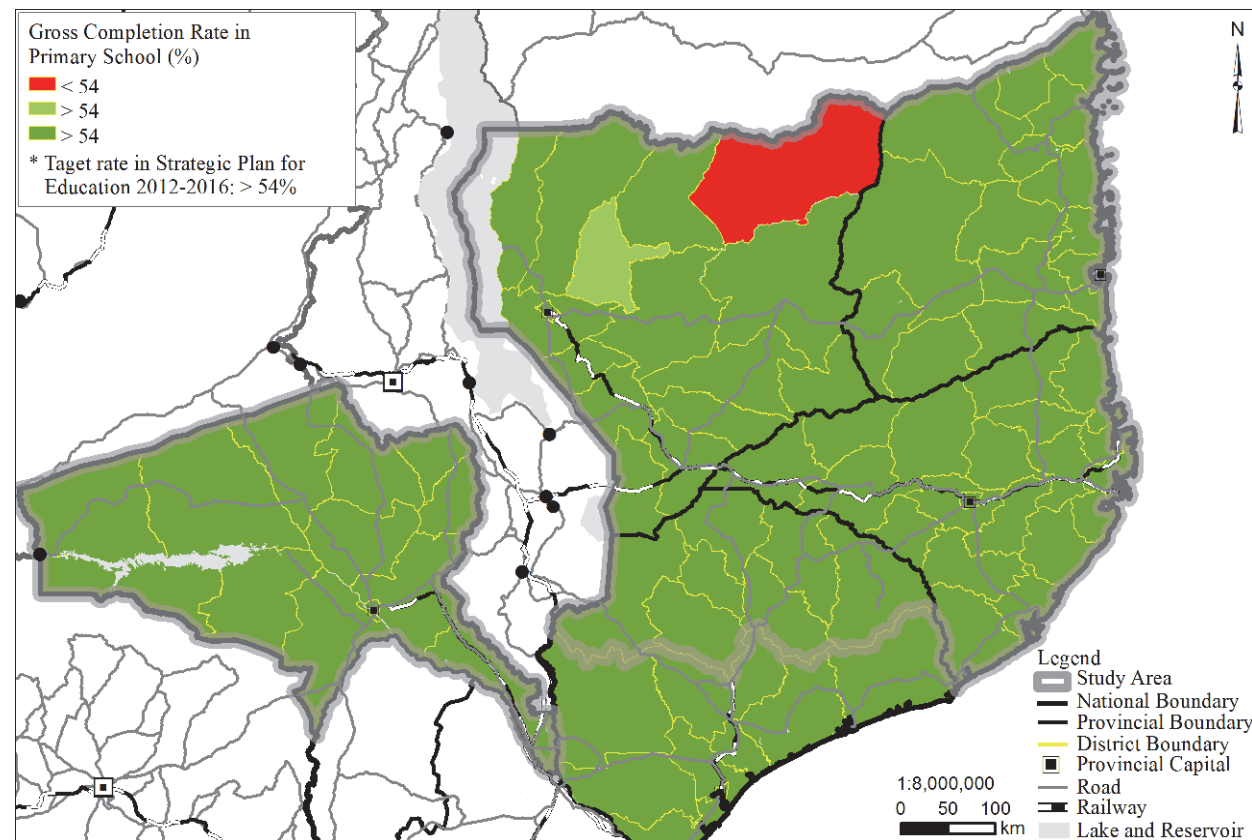
[B-4-1] Electrification Rate



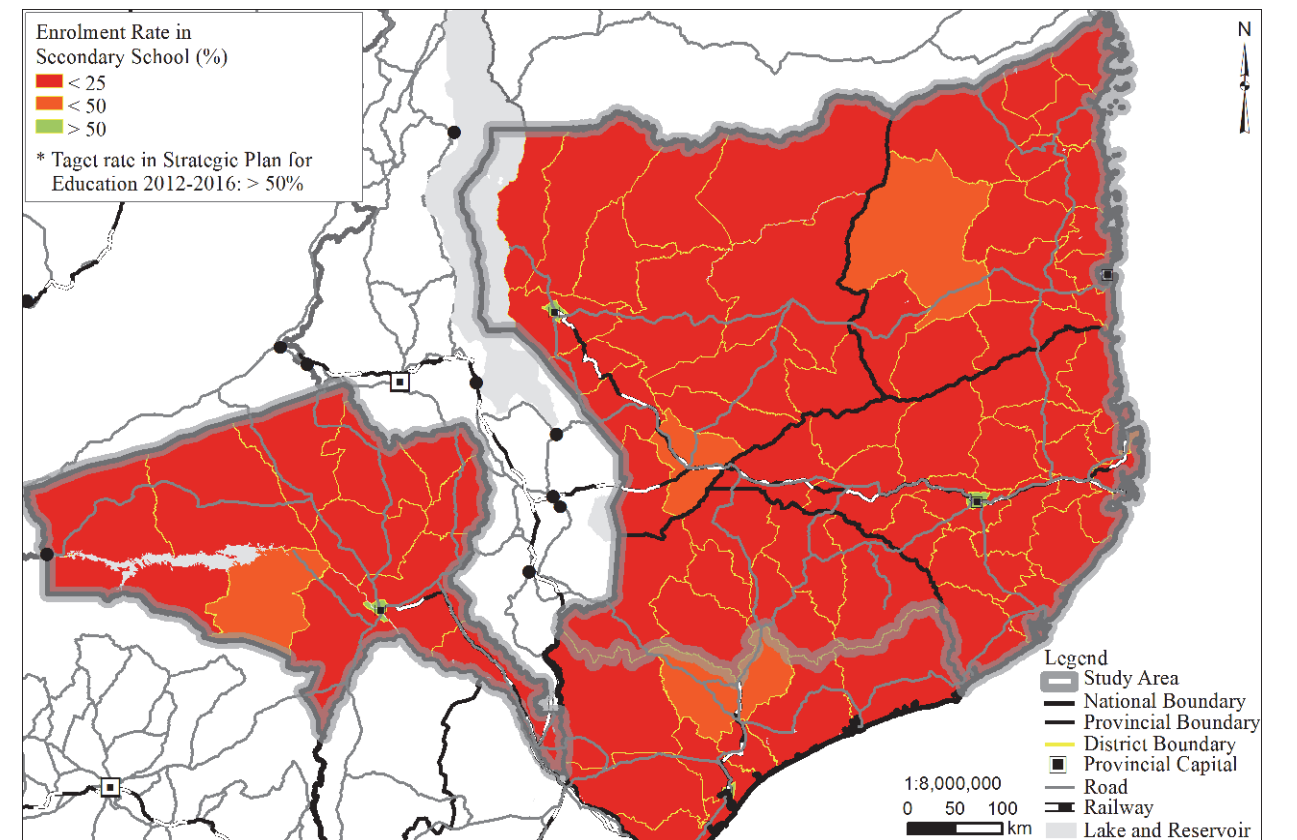
[B-4-3] Primary School: Number of Student per Teacher



[B-4-2] Primary School: Completion Rate

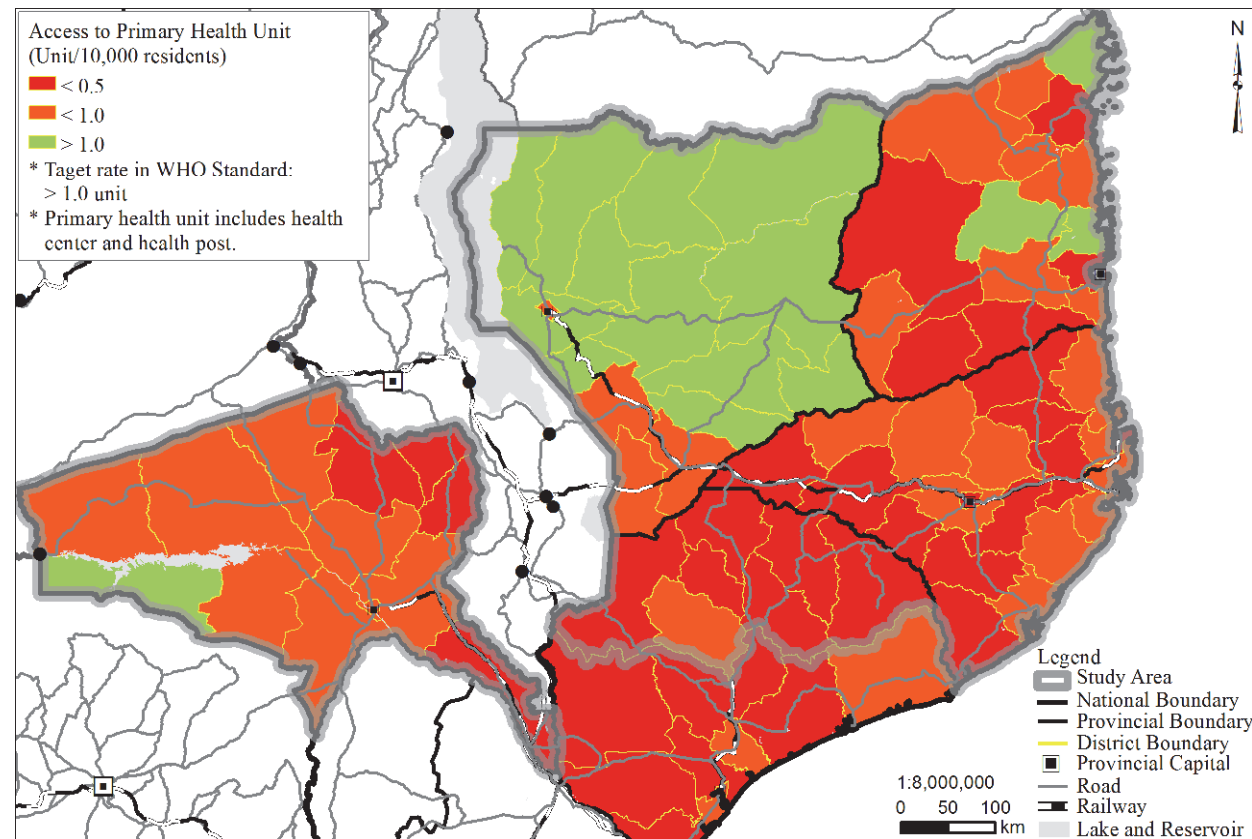


[B-4-4] Secondary School: Enrolment Rate

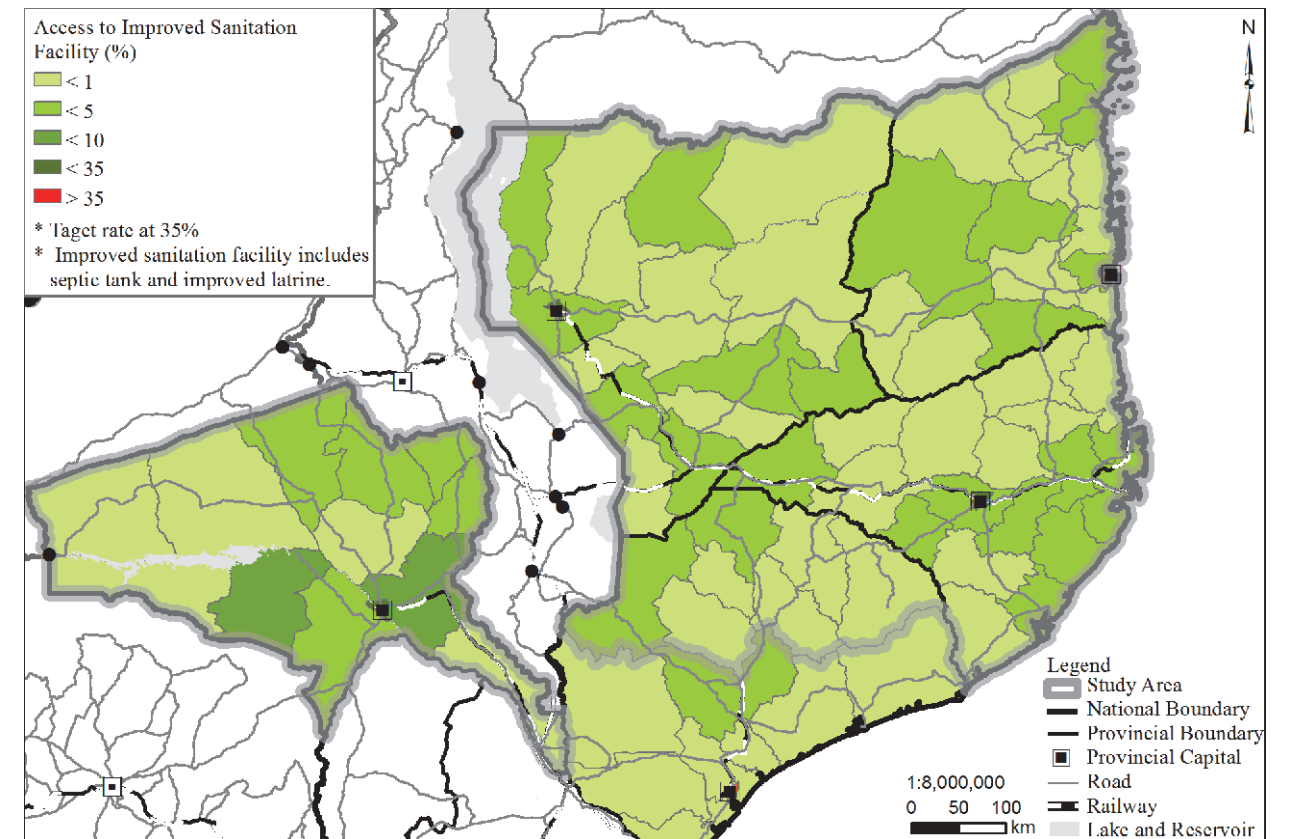


## B. Existing Conditions / B-4 Social Service Condition by District, INE Statistics (2007)

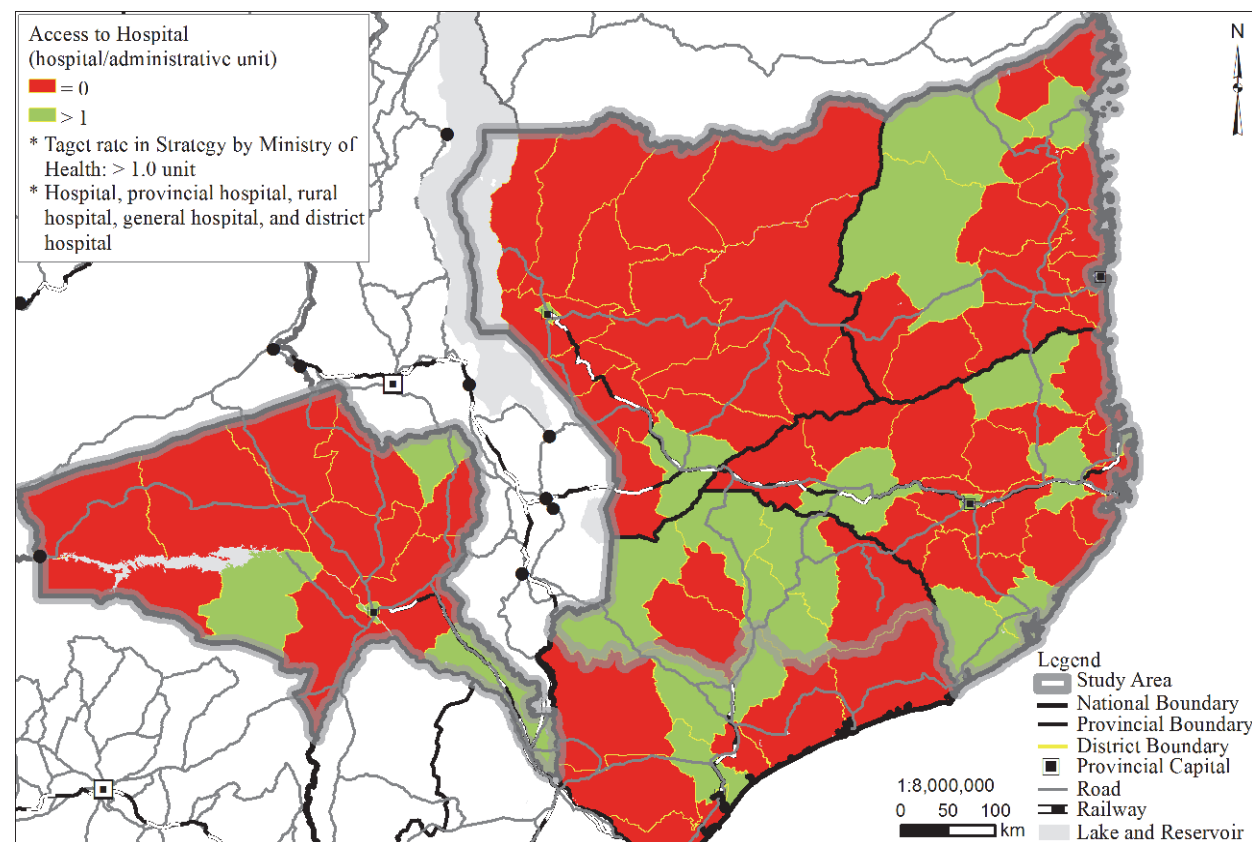
[B-4-5] Access to Primary Health Unit



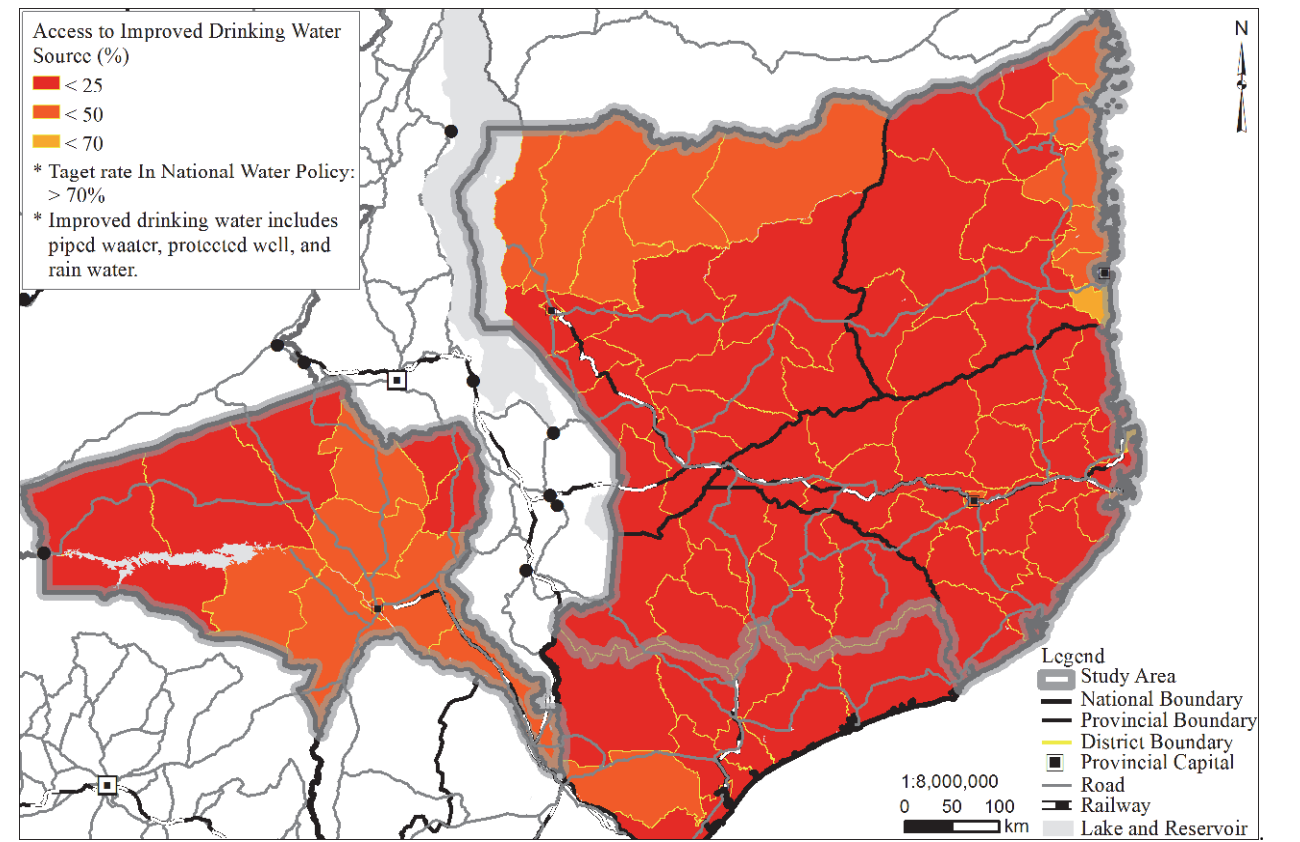
[B-4-7] Access to Improved Sanitation



[B-4-6] Access to Hospital

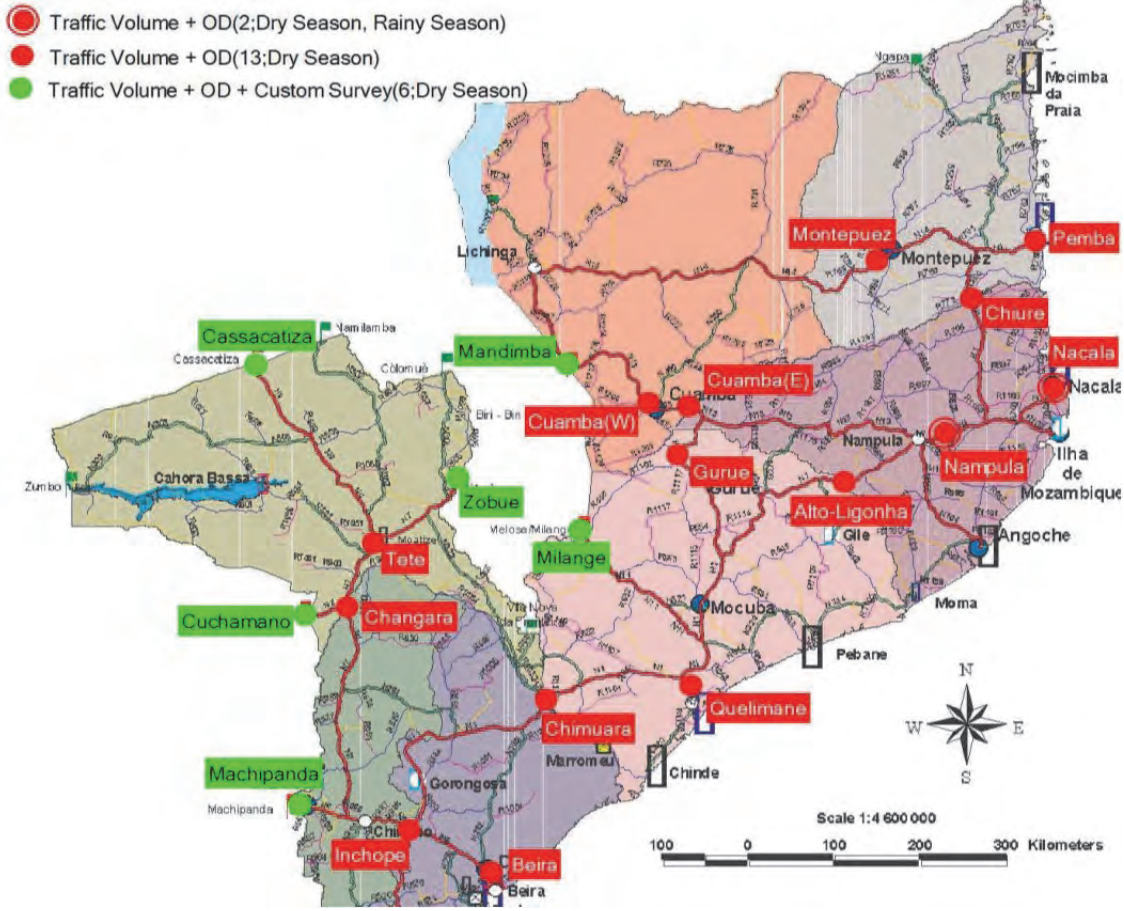


[B-4-8] Access to Improved Drinking Water



Logistics Survey, Conducted by PEDEC-Nacala

Survey Location



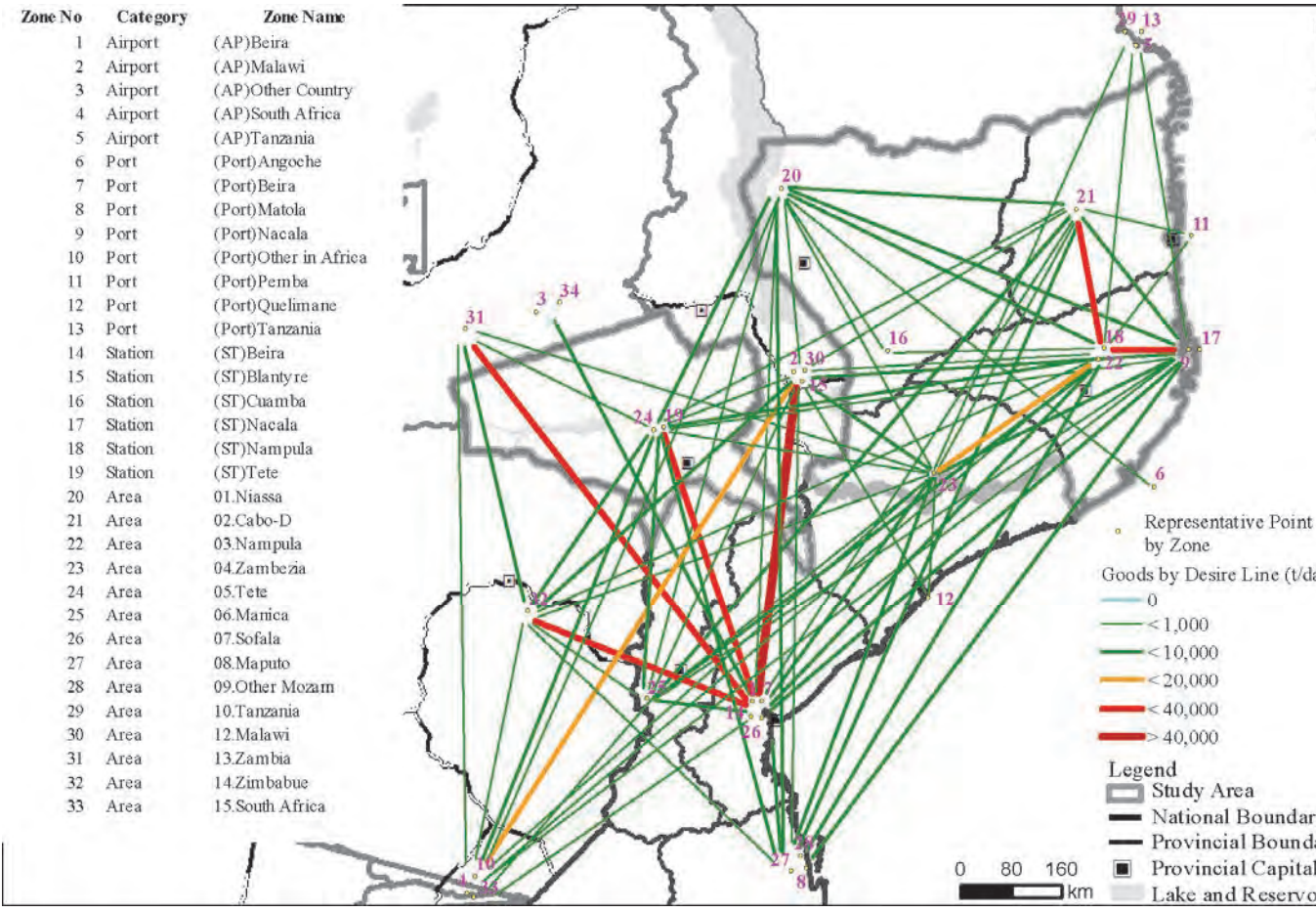
Type	Location Name	Location	Survey Date (2012)
Port	Beira	19°34'43.73" S, 34°43'44.60"E	6/28 – 7/2
	Quelimane	17°36'17.47"S, 36°49'10.07"E	6/28 – 7/2
	Nacala	14°36'03.15"S, 40°40'53.68"E	7/20 – 7/24, 11/18 – 11/20
	Pemba	13°0'11.62"S, 40°31'51.32"E	6/27 – 7/1
	Tete	16°18'21.72"S, 33°31'7.15"E	7/22 – 7/26
Main City	Nampula	15°6'57.50" S, 39°19'32.94"E	7/13 – 7/17, 11/25 – 11/27
	Cuamba(W)	14°48'20.17"S, 36°31'36.13"E	10/21 – 10/23
	Inchope	19°12'26.66"S, 33°55'55.89"E	7/6 – 7/10
	Chimuara	17°47'21.36"S, 35°24'20.58"E	6/29 – 7/3
	Changara	16°50'10.36"S, 33°16'29.97"E	7/16 – 7/20
Provincial Border	Gurue	15°19'44.14"S, 36°45'10.30"E	7/6 – 7/10
	Alto-Ligonha	15°30'44.60"S, 38°15'24.85"E	7/11 – 7/15
	Cuamba(E)	14°47'36.29"S, 36°51'5.50"E	7/10 – 7/14
	Chiure	13°40'36.81"S, 39°50'41.23"E	7/3 – 7/7
	Montepuez	13°7'52.78" S, 38°59'40.44"E	7/3 – 7/7
	Machipanda	19°0'20.62"S, 32°43'12.27"E	7/10 – 7/14
	Cuchamano	16°57'49.67"S, 32°51'42.99"E	7/16 – 7/20
	Cassacatiza	14°18'53.61"S, 32°21'2.03"E	7/22 – 7/26
	Zobue	15°34'45.82"S, 34°28'43.38"E	7/22 – 7/26
	Milange	16°5'31.92"S, 35,45°19.77"E	7/2 – 7/6
Mandimba	14°21'29.36"S, 35°39'14.75"E	7/11 – 7/15	

Caro Interview Survey

Interview Items	Format
Survey Time	Hour / Minutes
Vehicle Type	Select from 4 choices
Origin and Destination	Country/Province/District/City/Village, Port/Airport/Station
Travel Time (estimated)	Days / Hours / Minutes
Trip Frequency	Select from 8 choices
Contents and Volume of Freight	Commodity type(HS code) / Volume (weight)

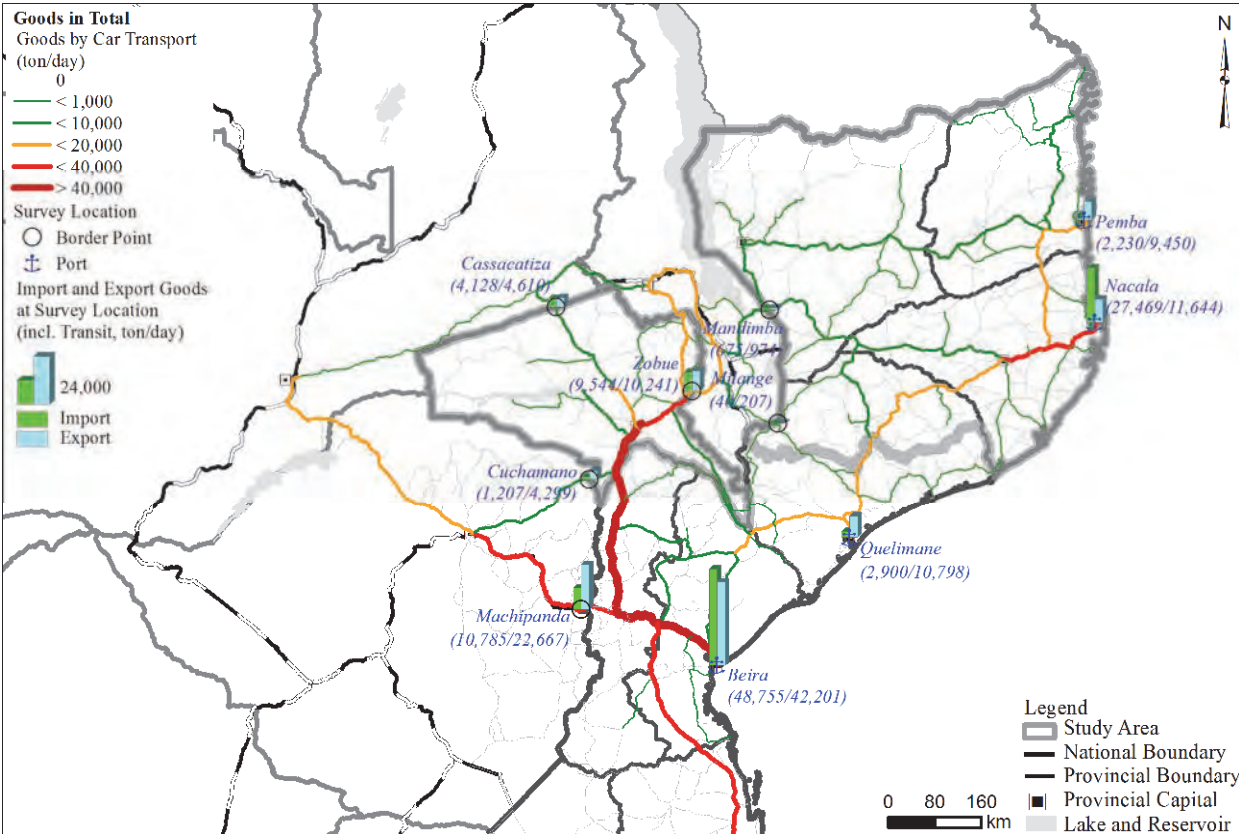


Desire Line for Cargo Volume

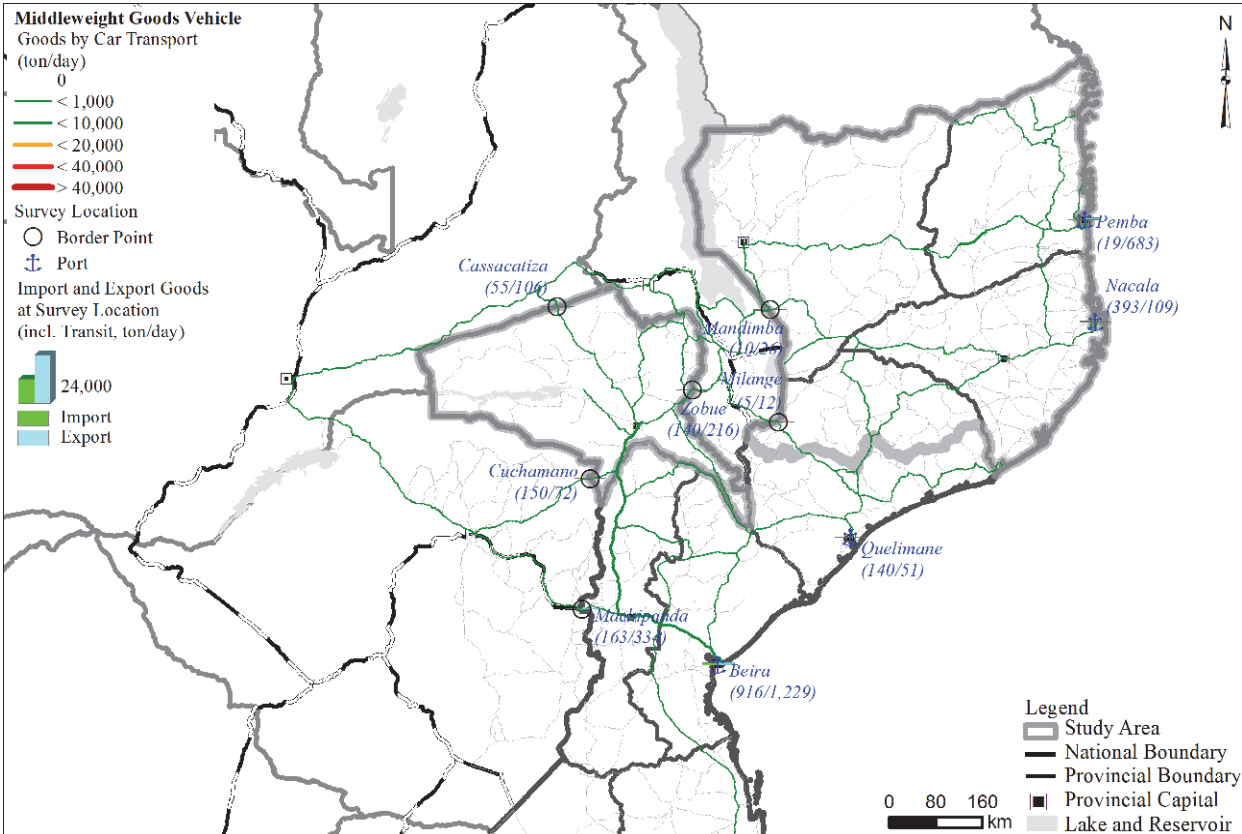


**B. Existing Conditions / B-5 Logistics**

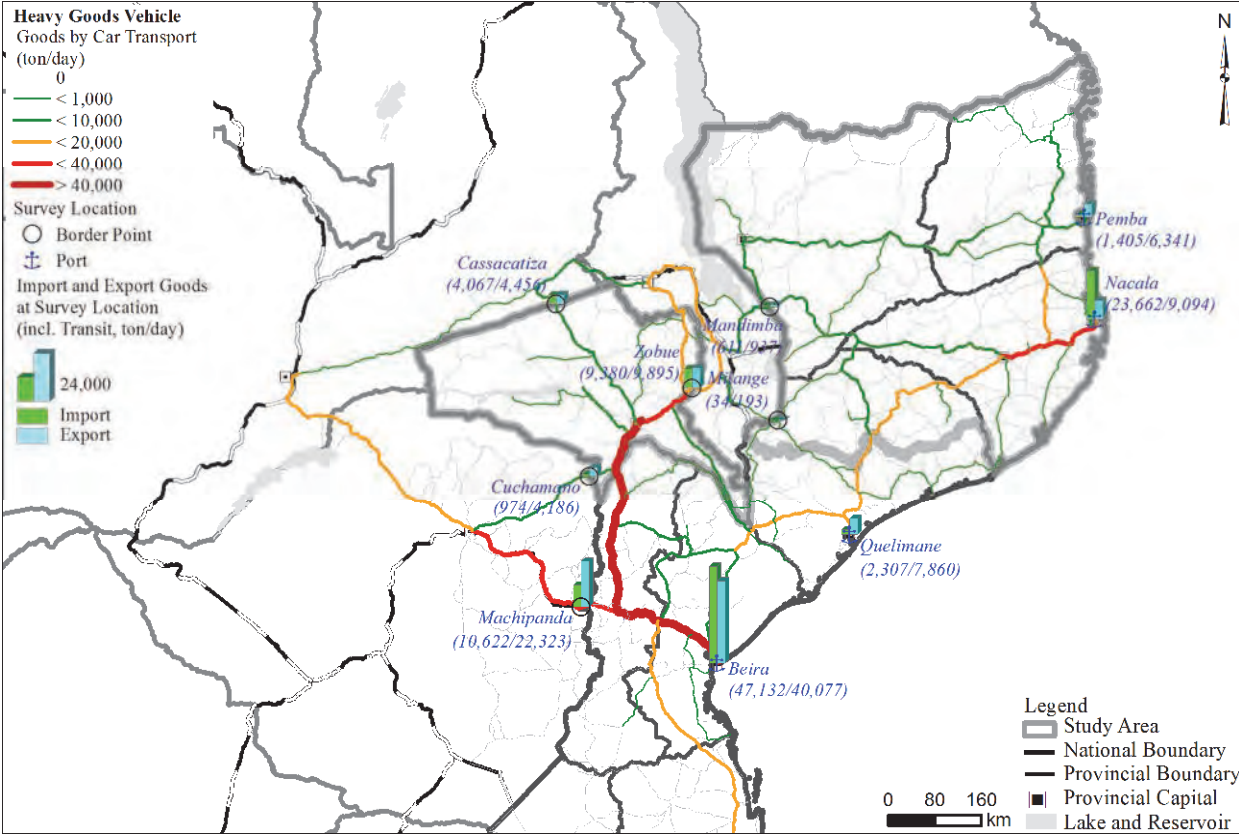
**[B-5-1] Total Cargo Volume (ton/day)**



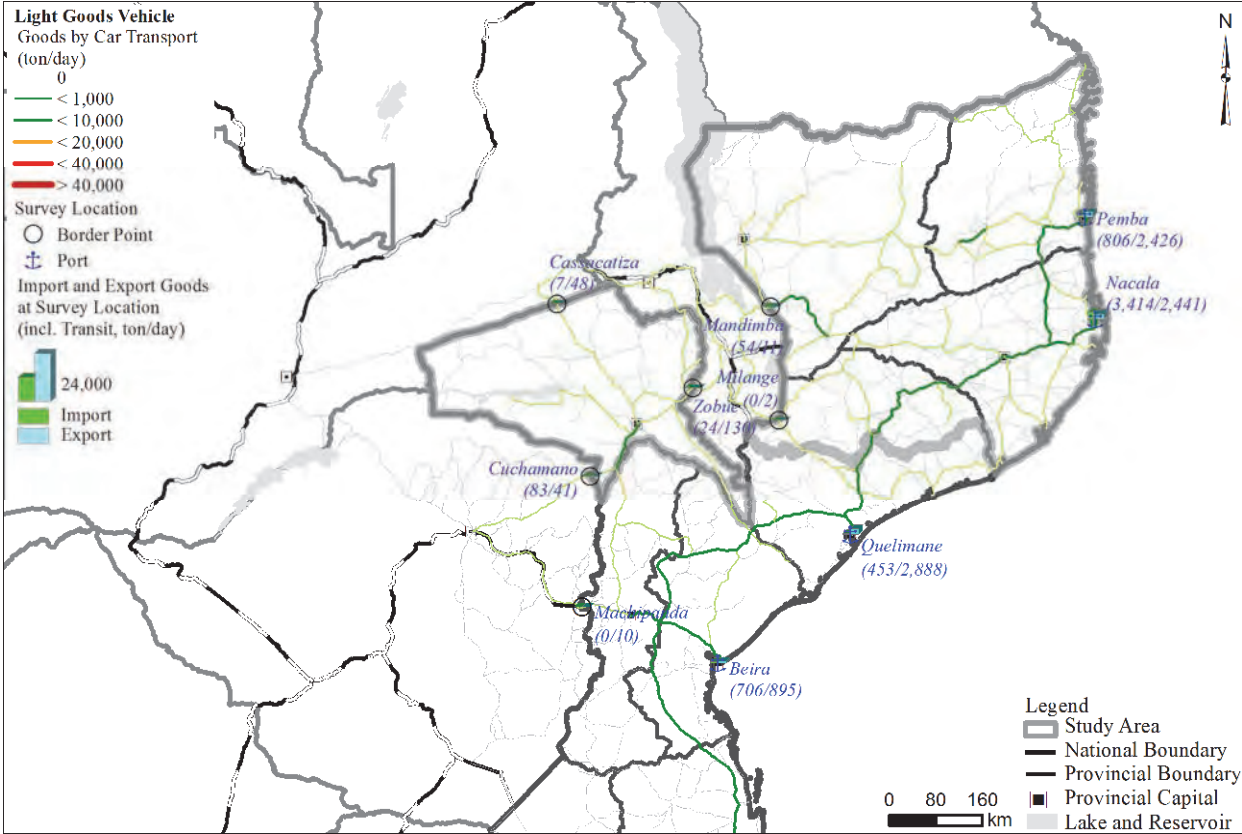
**[B-5-3] Cargo Volume by Medium Goods Vehicle (MGV: 3-4 axles) (ton/day)**



**[B-5-2] Cargo Volume by Heavy Goods Vehicle (HGV : over 4 axles) (ton/day)**

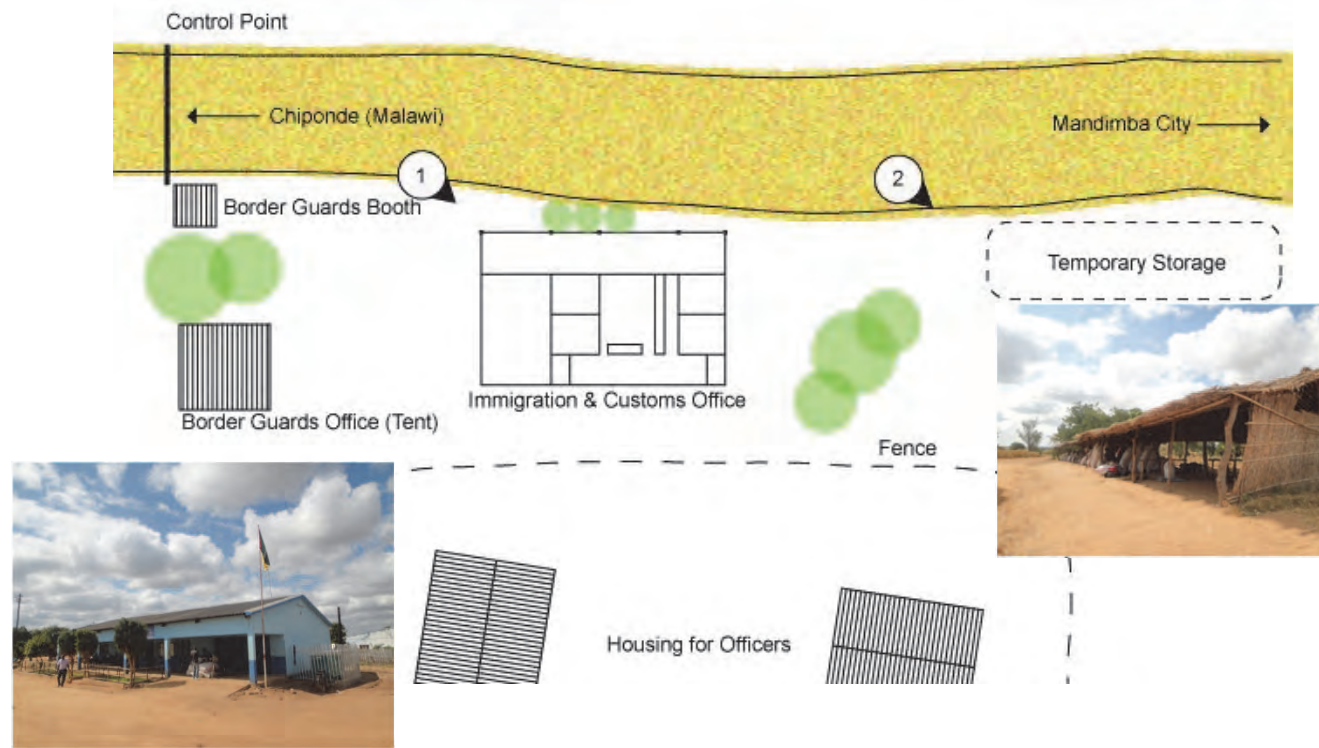


**[B-5-4] Cargo Volume by Light Goods Vehicle (LGV: 2 axles) (ton/day)**

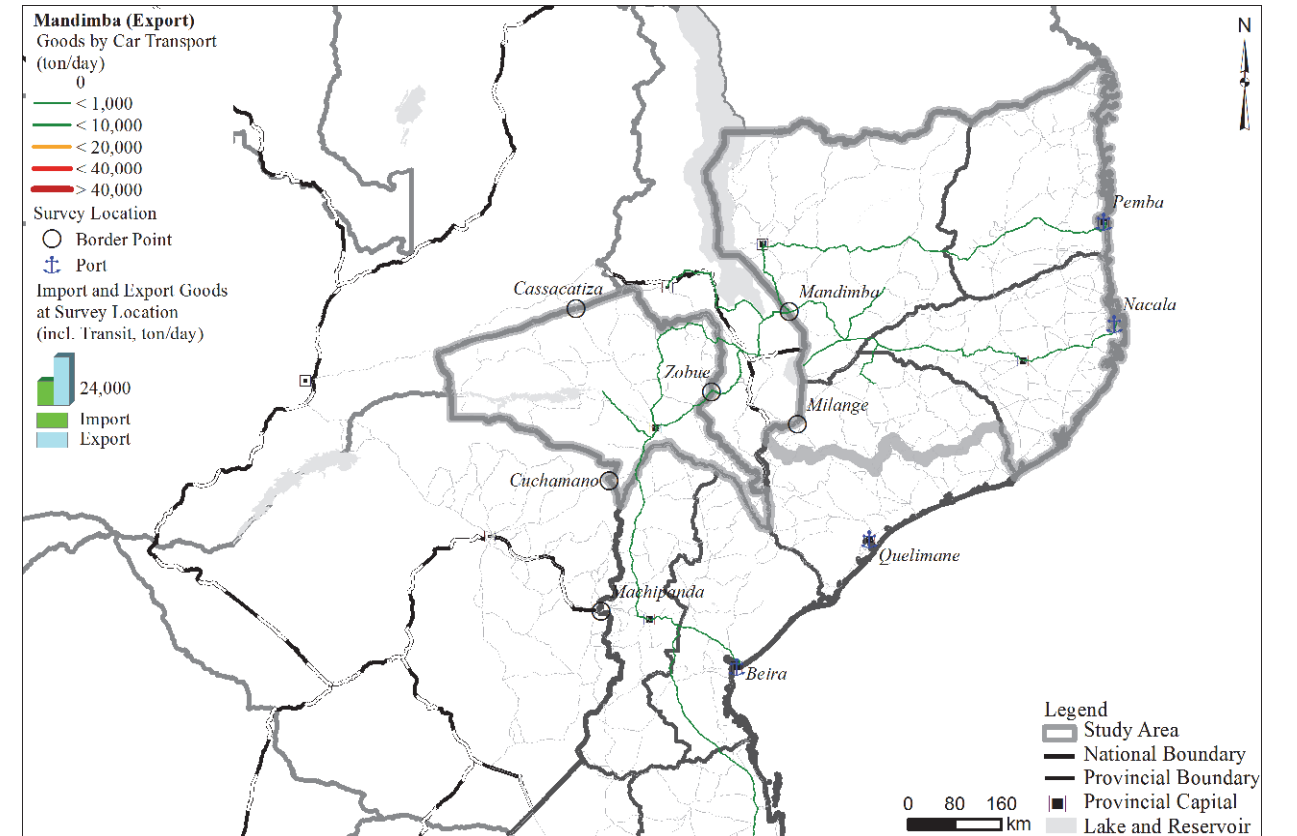


## B. Existing Conditions / B-5 Logistics

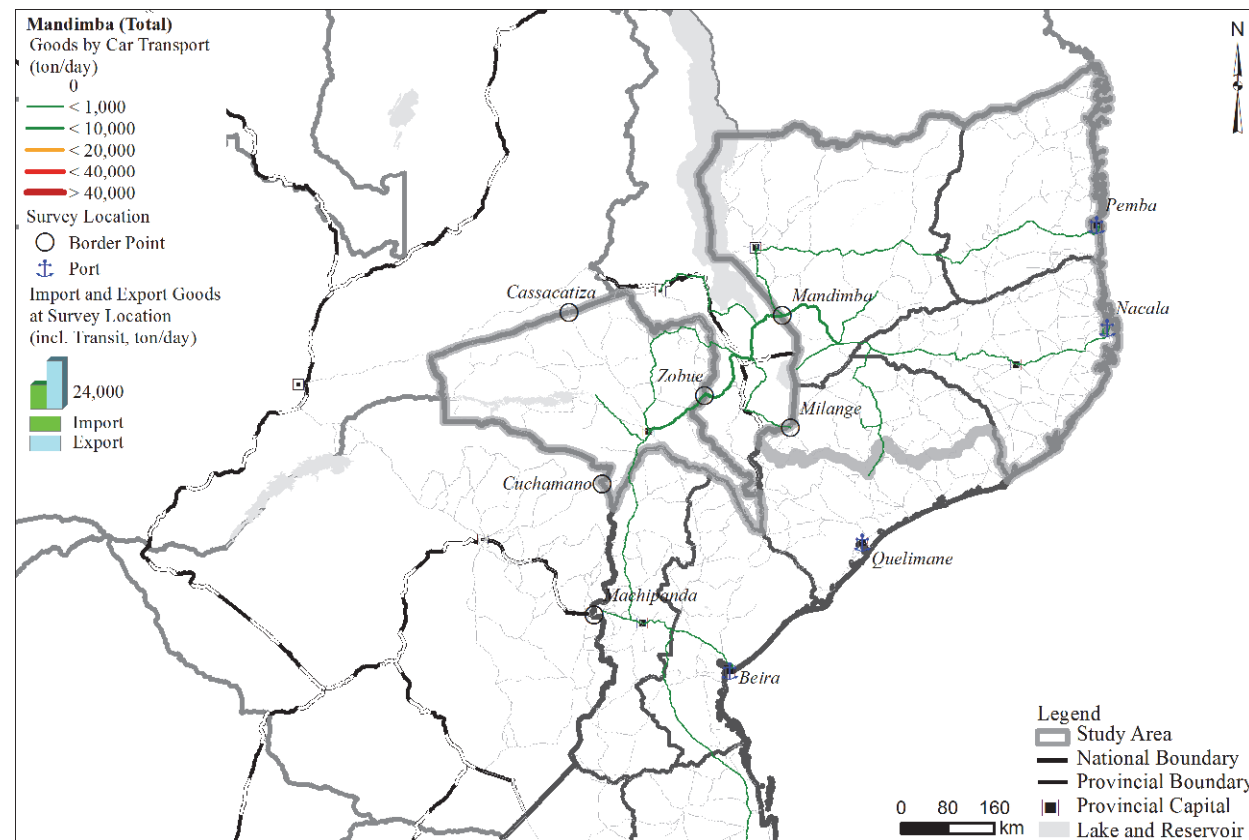
via Mandimba Border Post



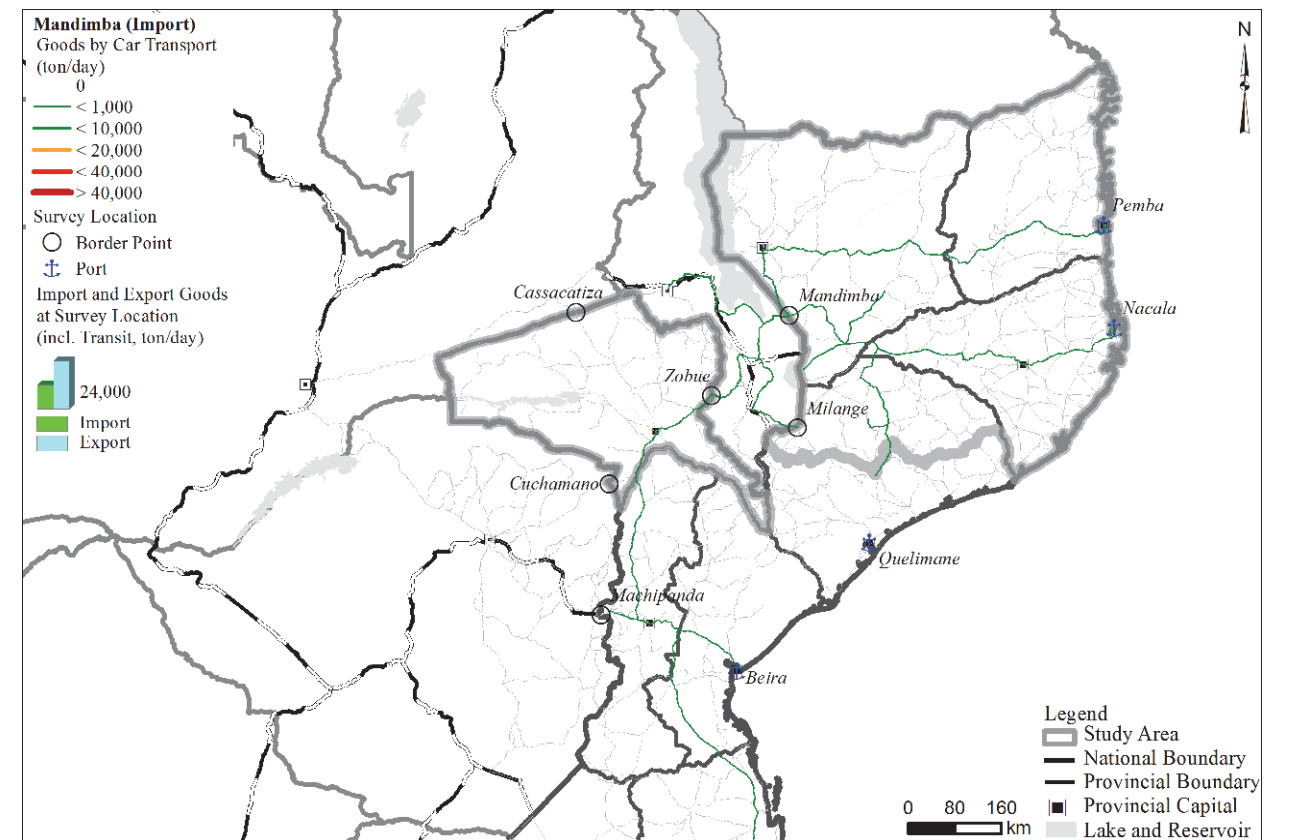
[B-5-6] Cargo Volume in Export (from Mandimba to Malawi) (ton/day)



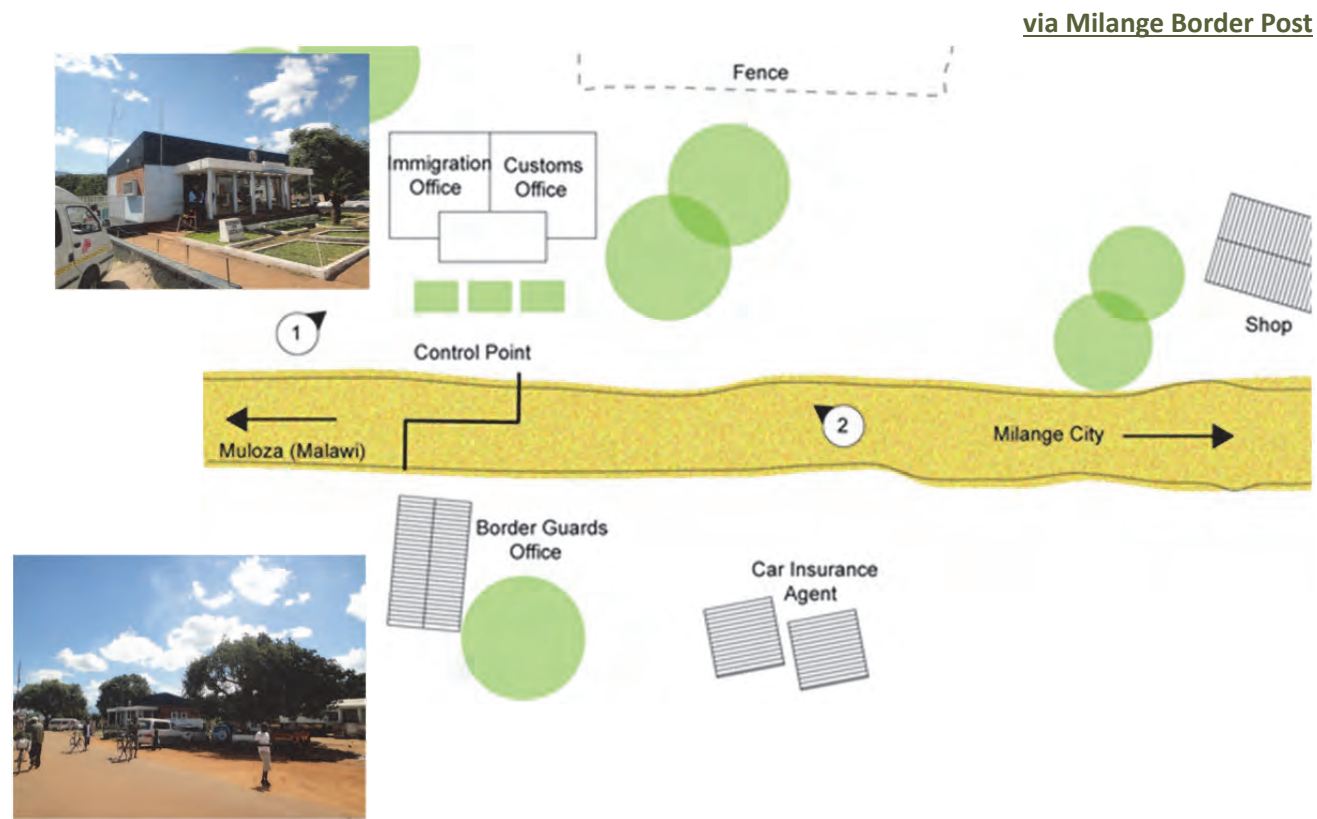
[B-5-5] Cargo Volume in Total (ton/day)



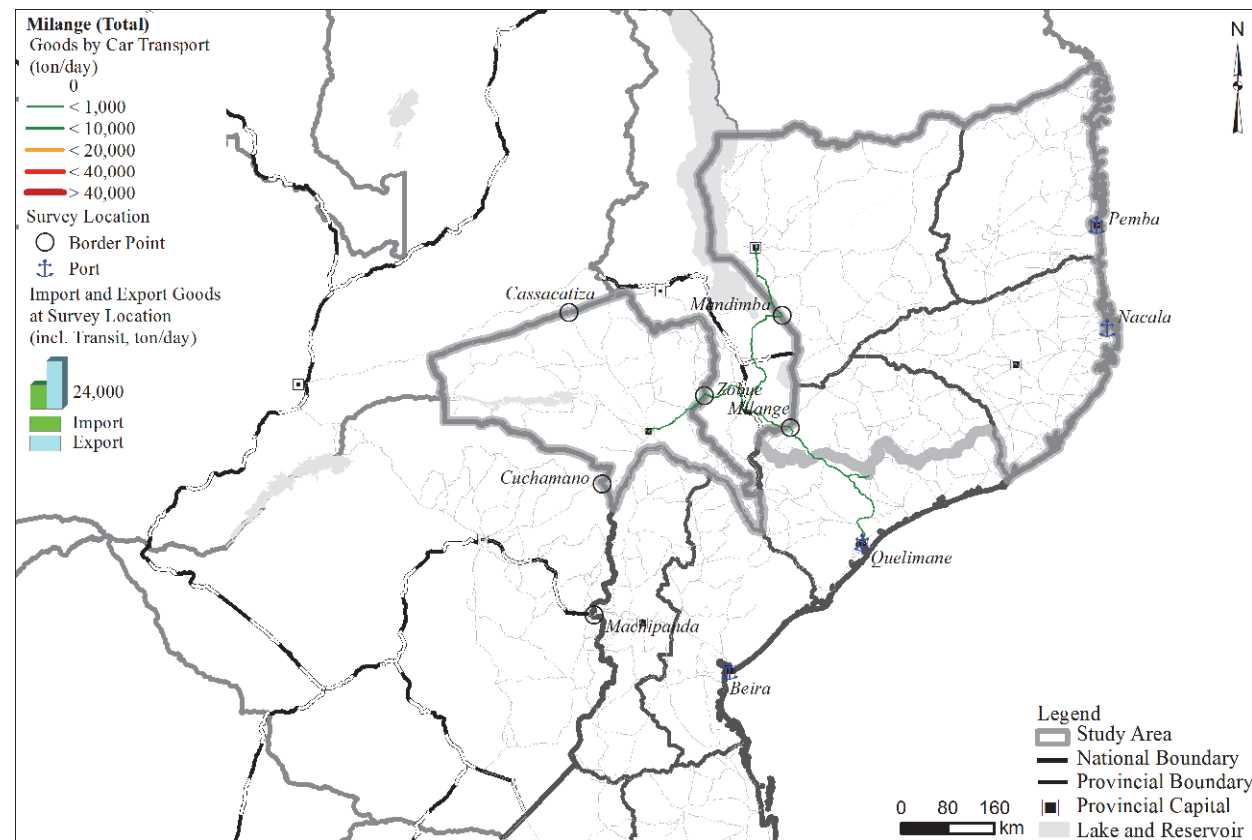
[B-5-7] Cargo Volume in Import (from Malawi to Mandimba) (ton/day)



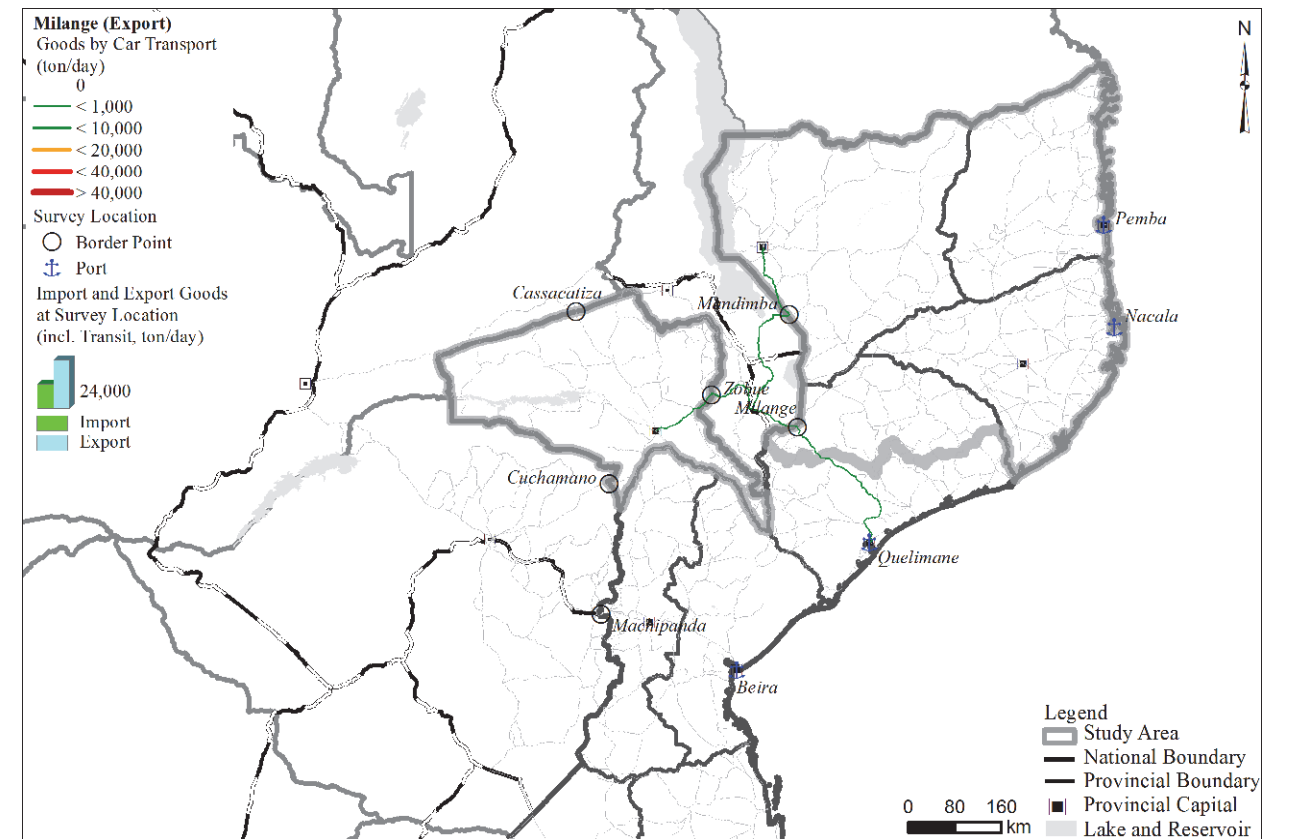
## B. Existing Conditions / B-5 Logistics



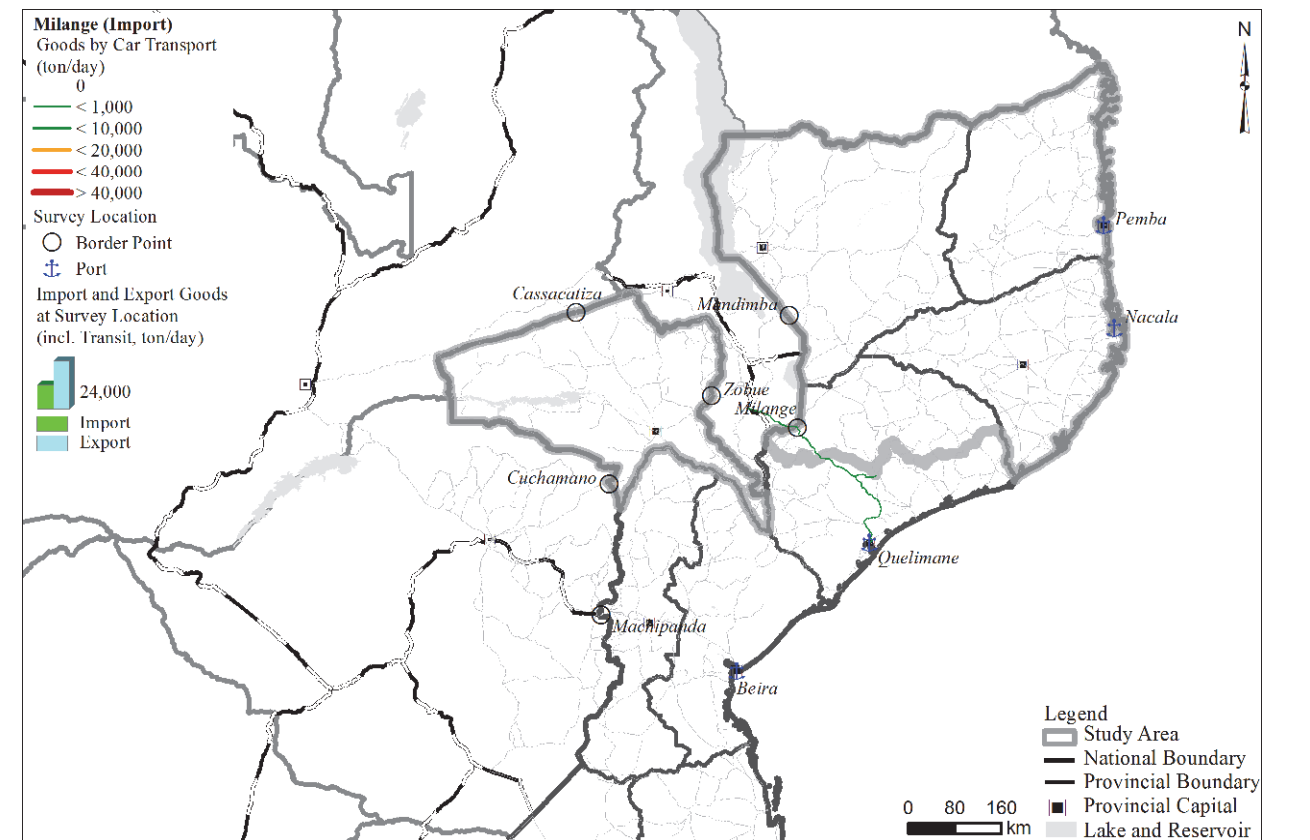
[B-5-8] Cargo Volume in Total (ton/day)



[B-5-9] Cargo Volume in Export (from Milange to Malawi) (ton/day)



[B-5-10] Cargo Volume in Import (from Malawi to Milange) (ton/day)

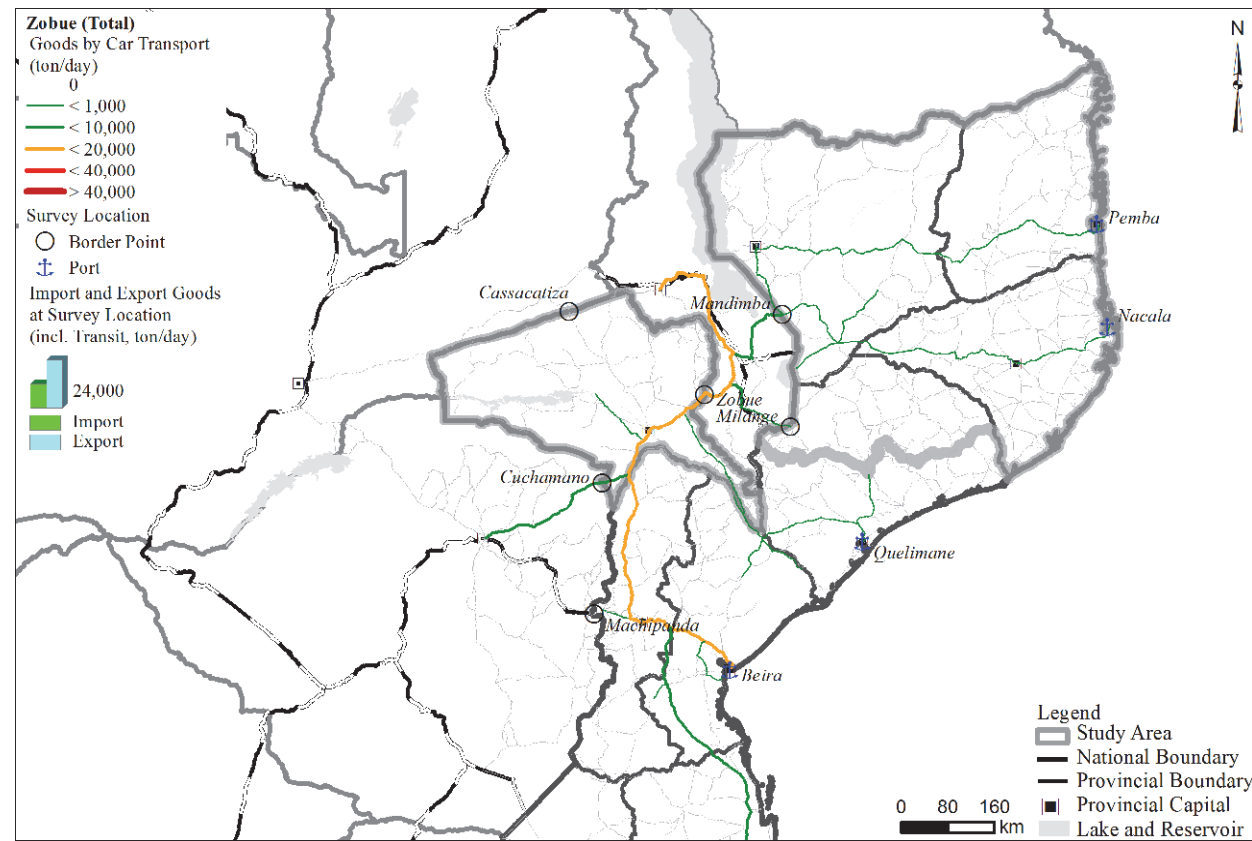




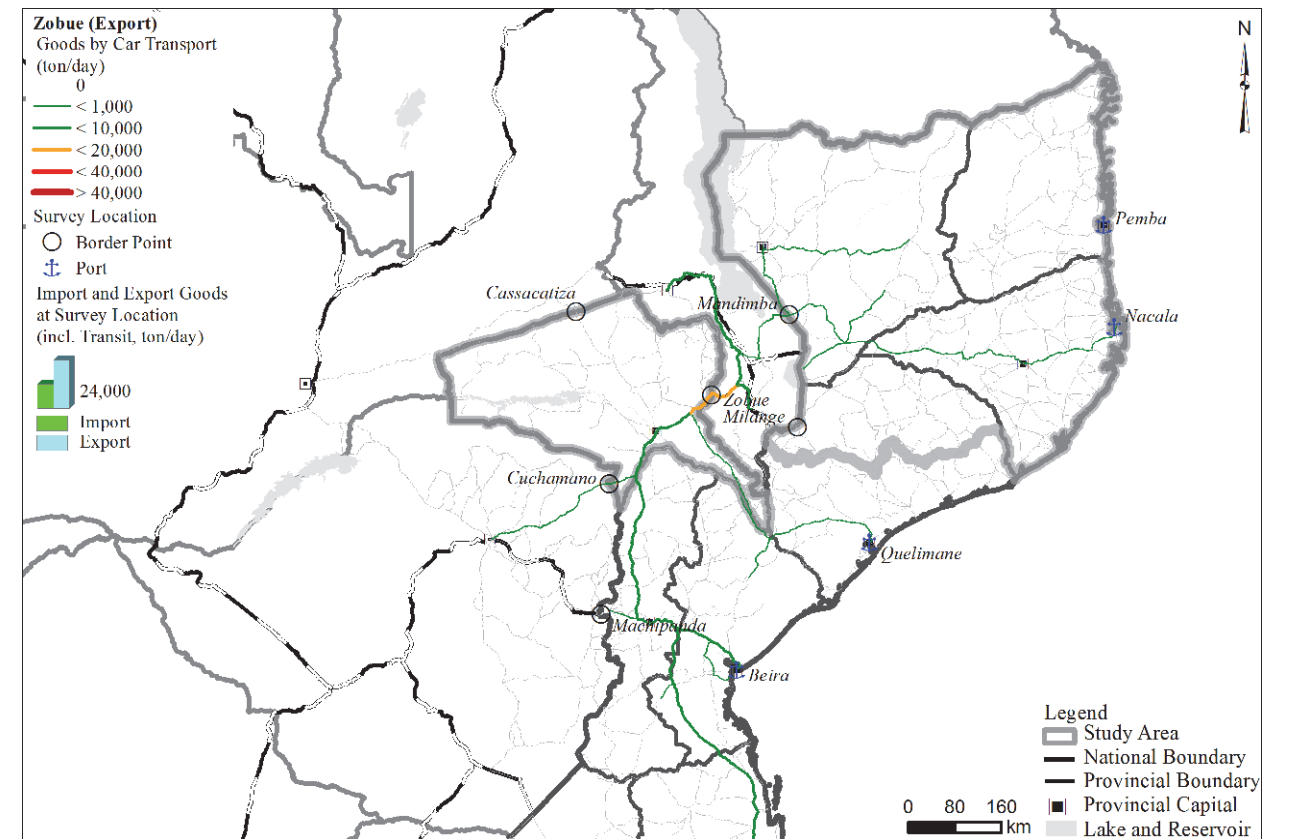
## B. Existing Conditions / B-5 Logistics



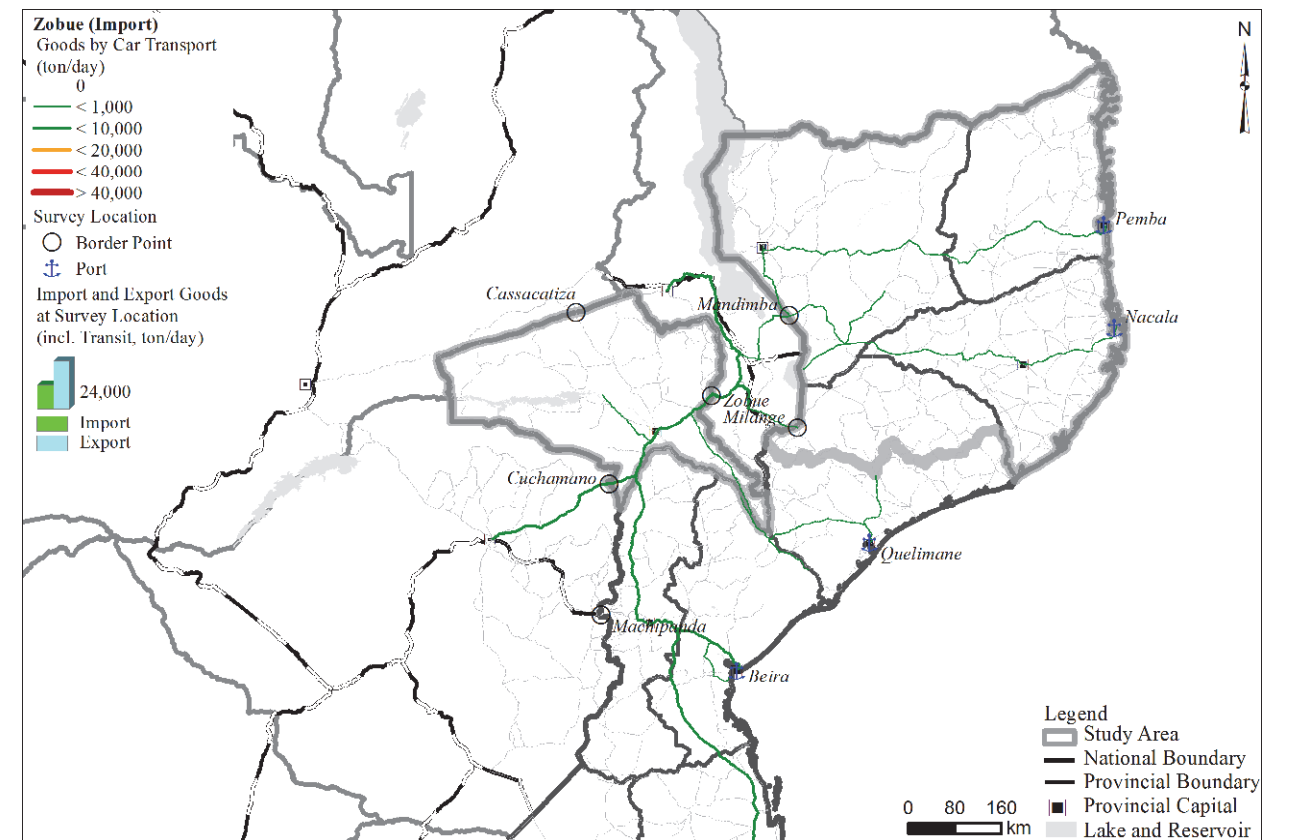
[B-5-11] Cargo Volume in Total (ton/day)



[B-5-12] Cargo Volume in Export (from Zobue to Malawi) (ton/day)

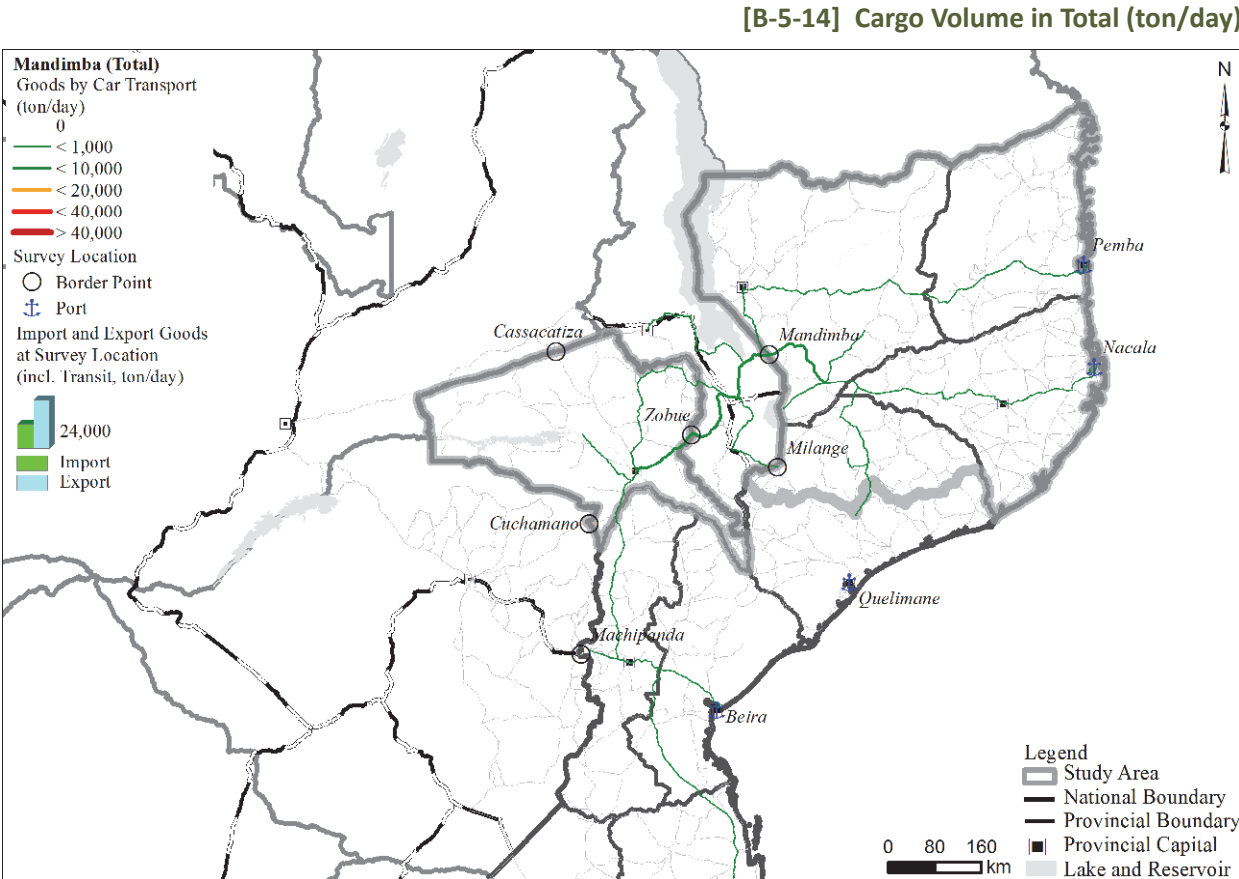


[B-5-13] Cargo Volume in Import (from Malawi to Zobue) (ton/day)

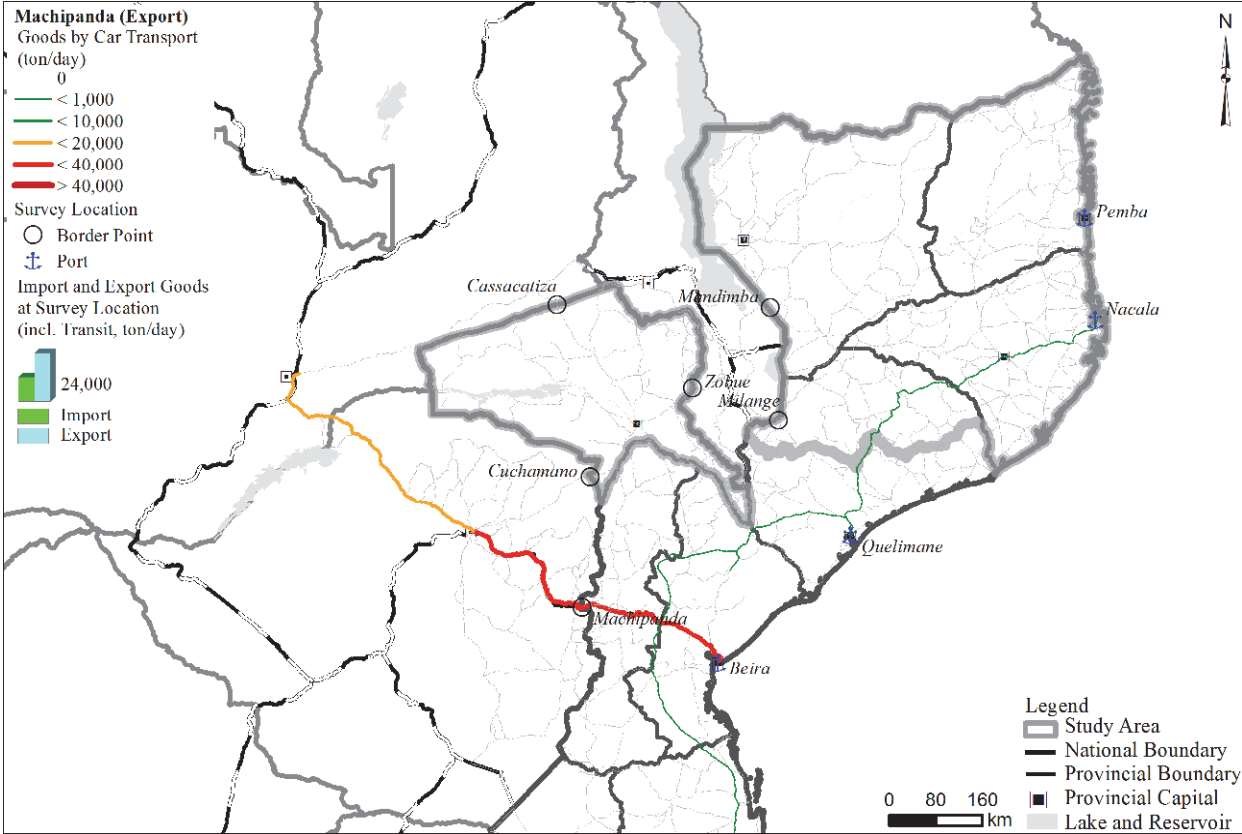


B. Existing Conditions / B-5 Logistics

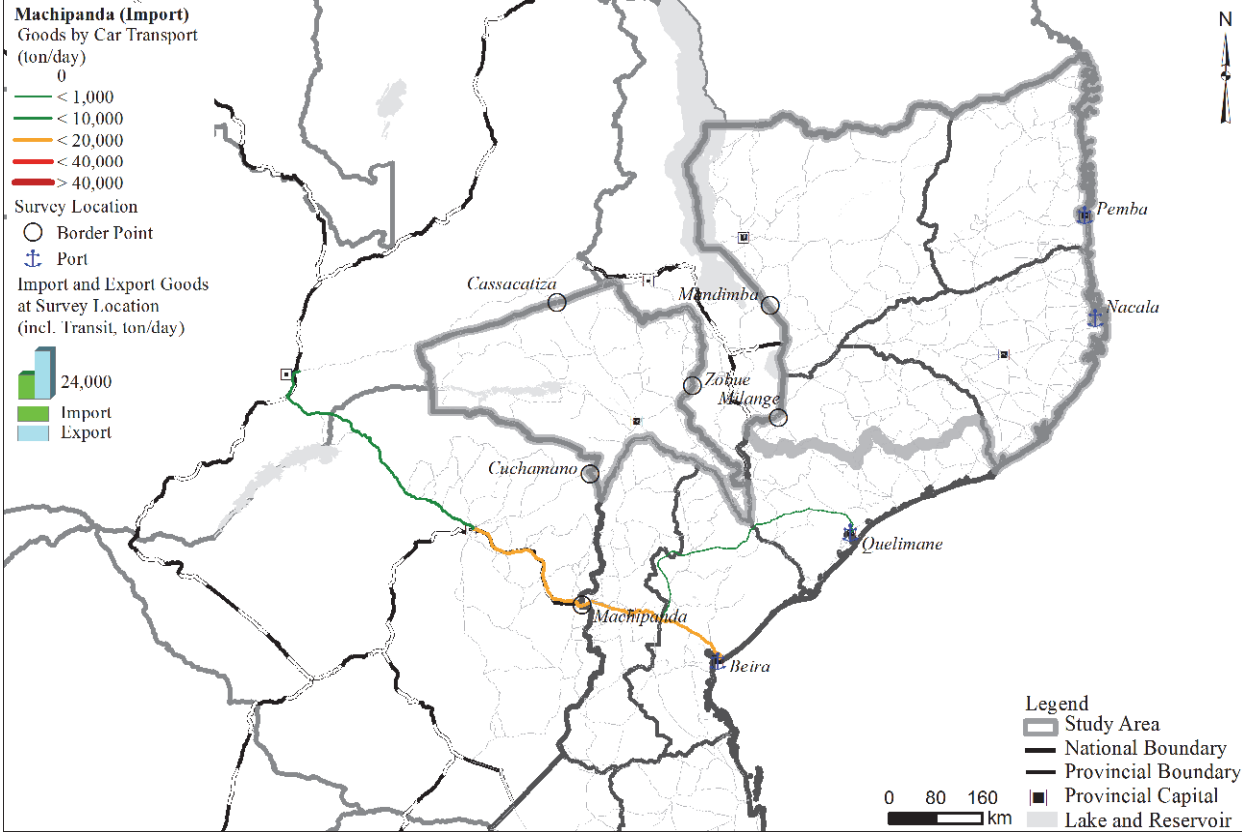
via Machipanda Border Post



**[B-5-15] Cargo Volume in Export (from Machipanda to Zimbabwe) (ton/day)**



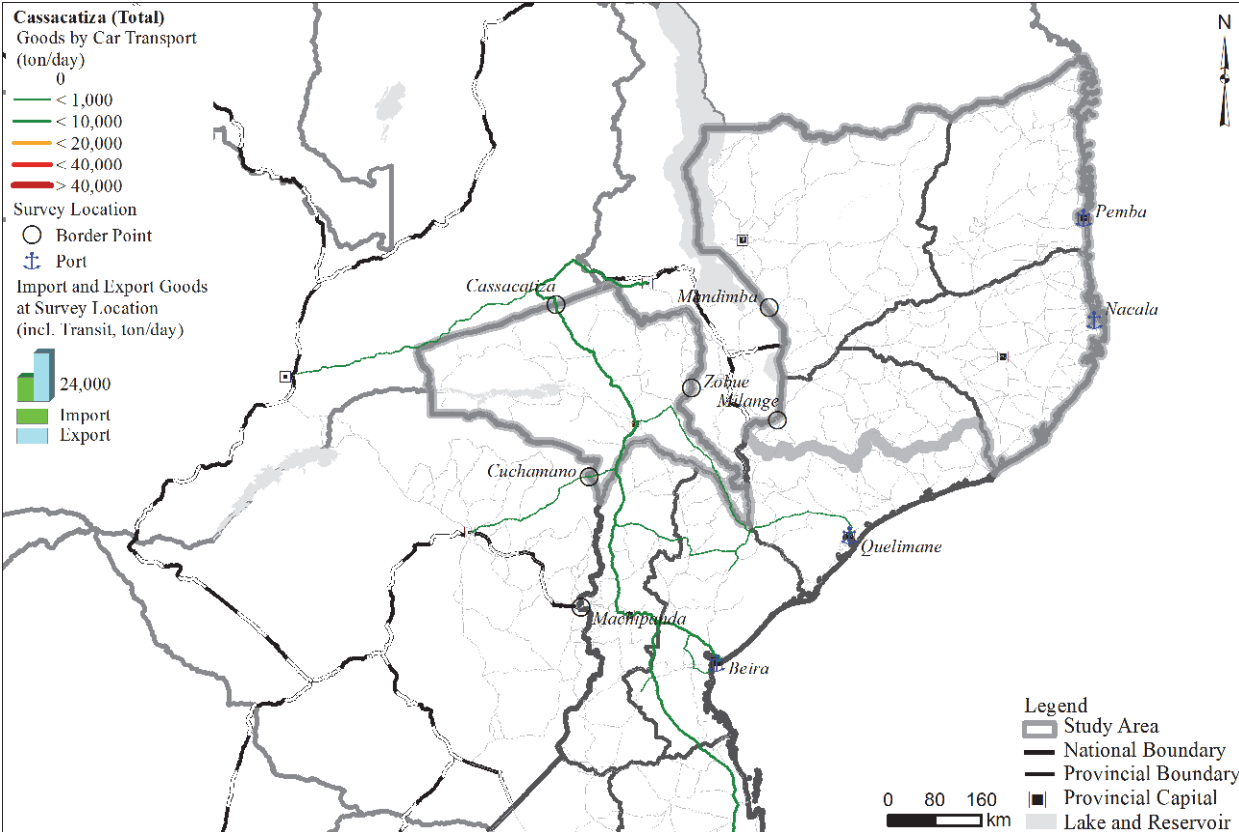
**[B-5-16] Cargo Volume in Import (from Zimbabwe to Machipanda) (ton/day)**



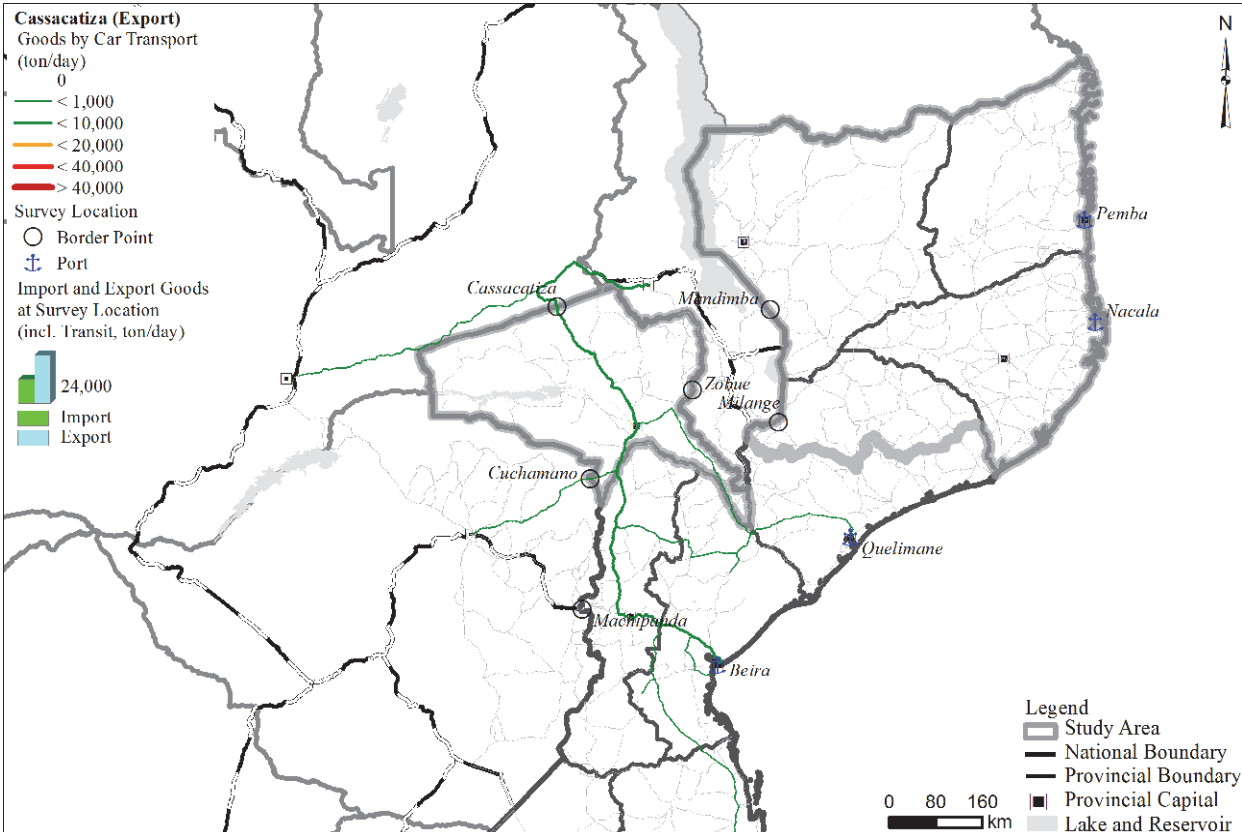
**B. Existing Conditions / B-5 Logistics**

via Cassacatiza Border Post

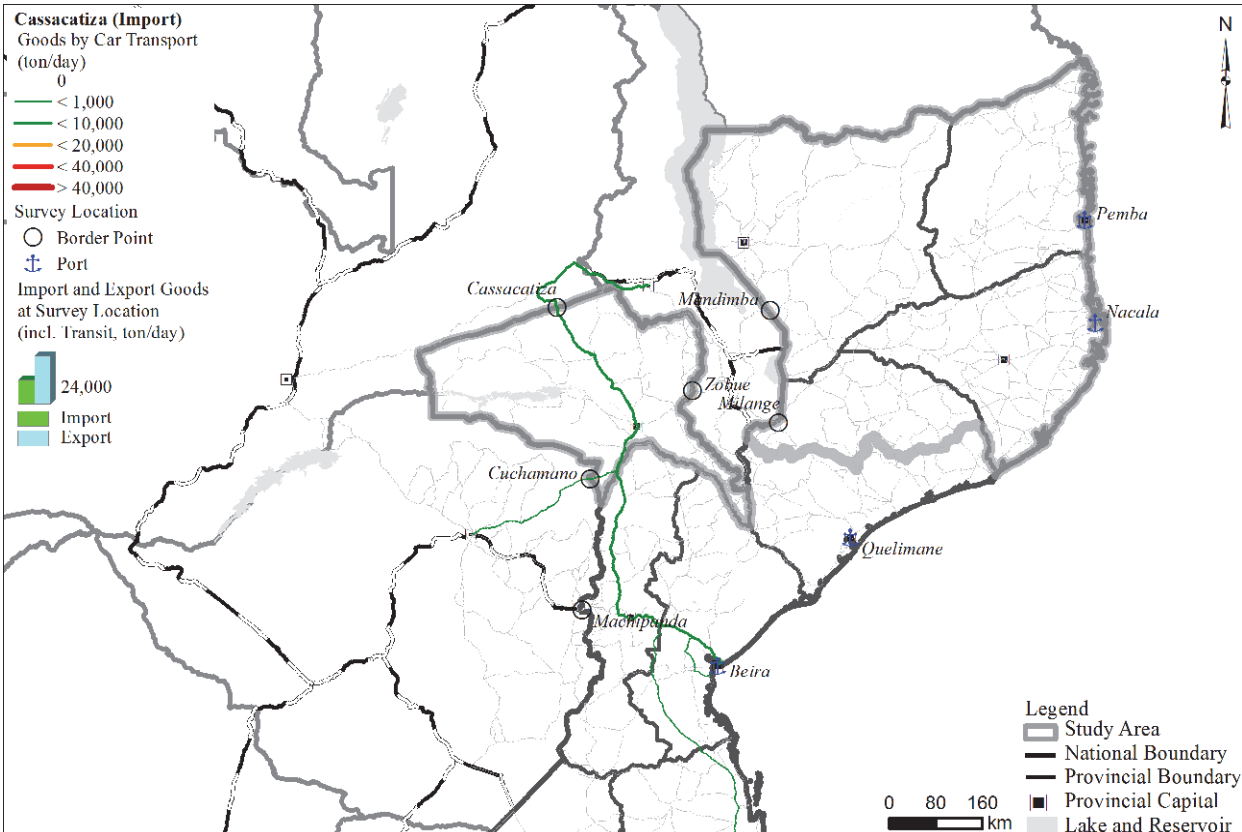
**[B-5-17] Cargo Volume in Total (ton/day)**



**[B-5-18] Cargo Volume in Export (from Cassacatiza to Zambia) (ton/day)**



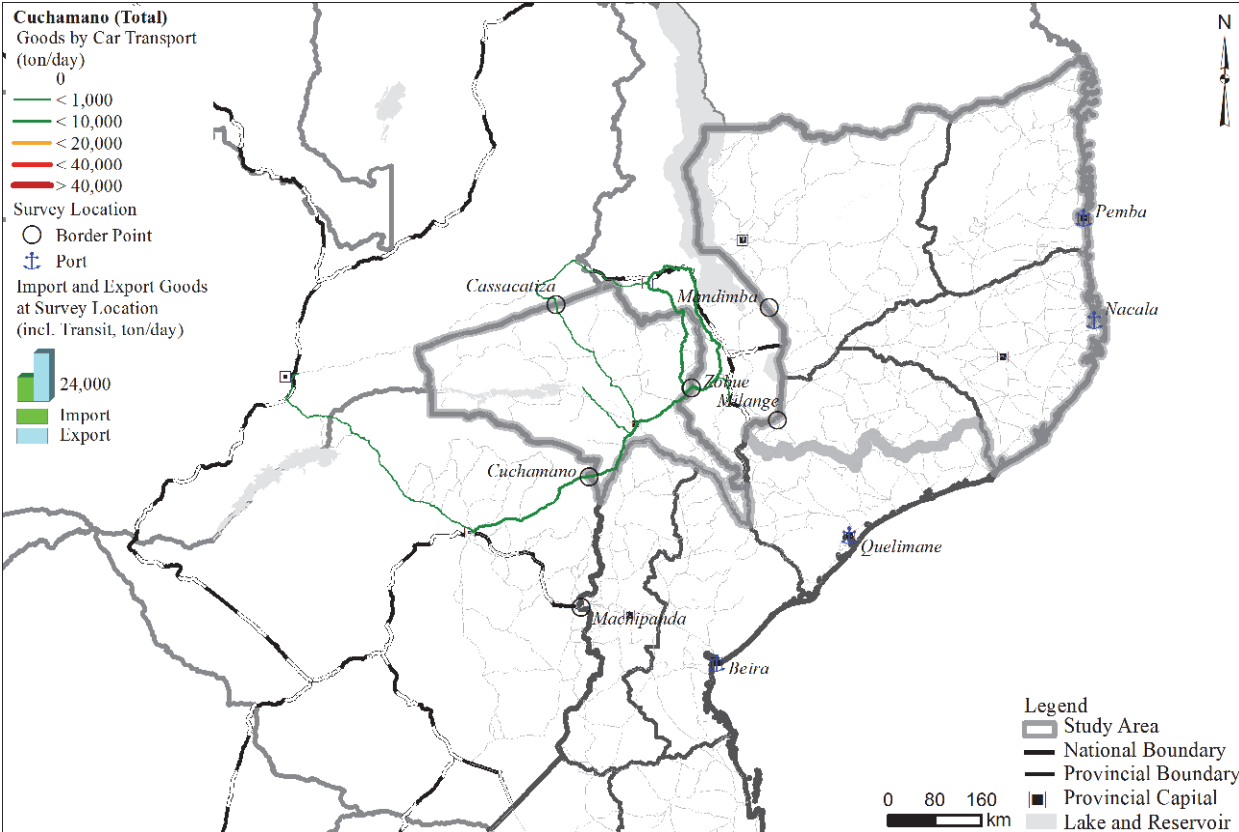
**[B-5-19] Cargo Volume in Import (from Zambia to Cassacatiza) (ton/day)**



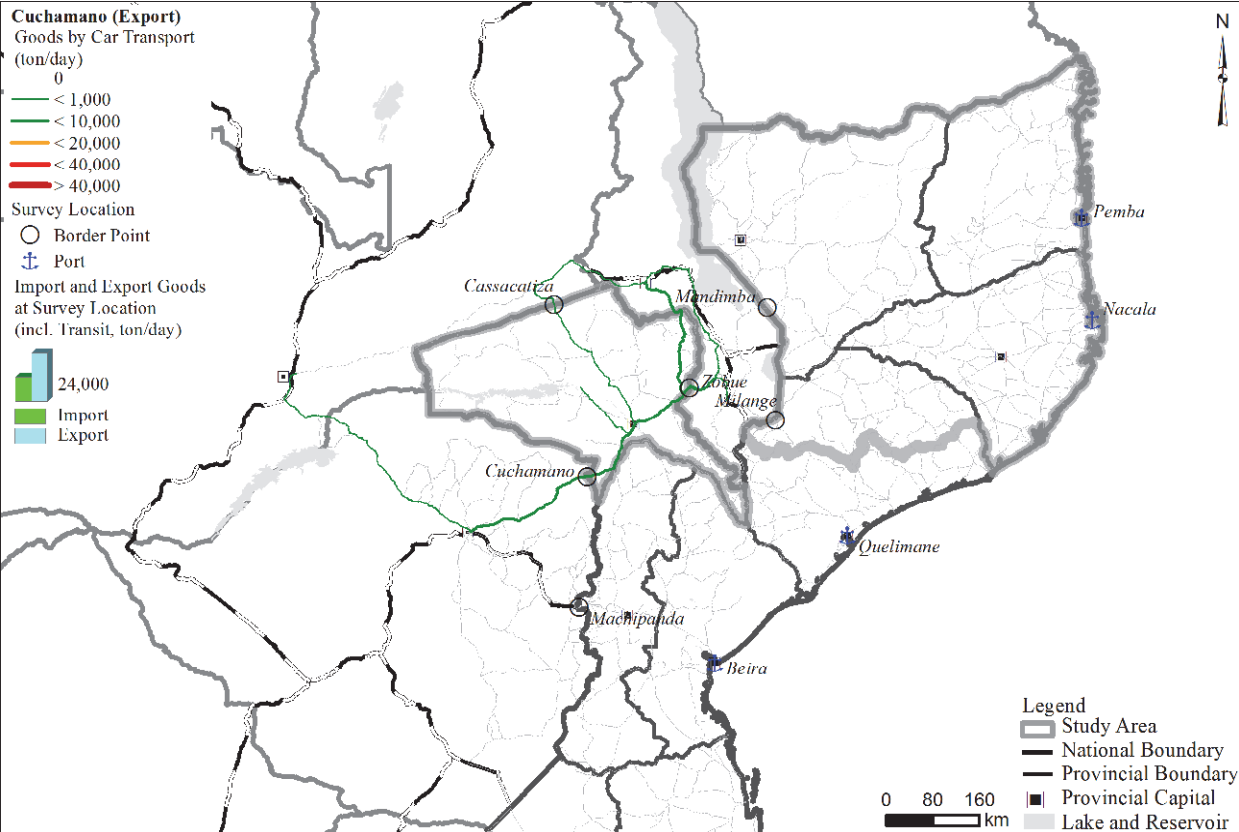
**B. Existing Conditions / B-5 Logistics**

via Cuchamano Border Post

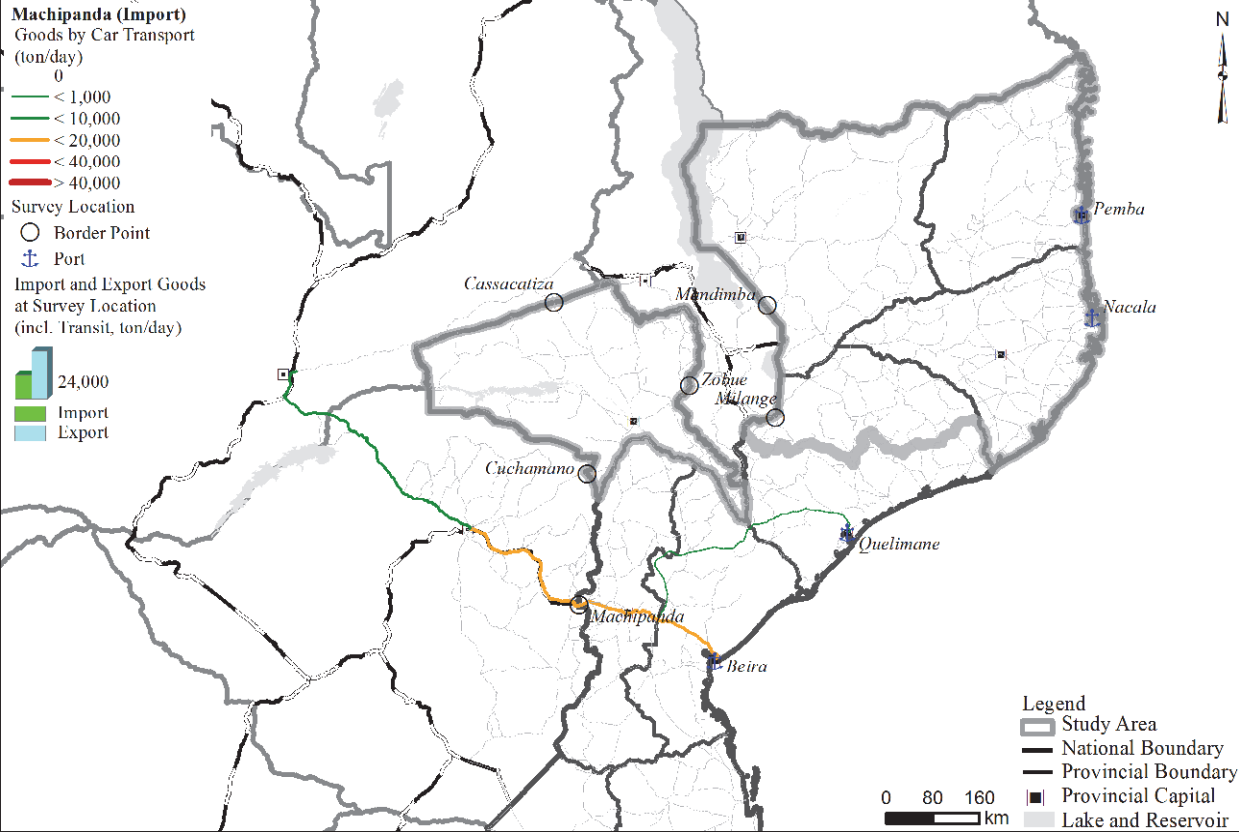
**[B-5-20] Cargo Volume in Total (ton/day)**



**[B-5-21] Cargo Volume in Export (from Cuchamano to Zimbabwe) (ton/day)**



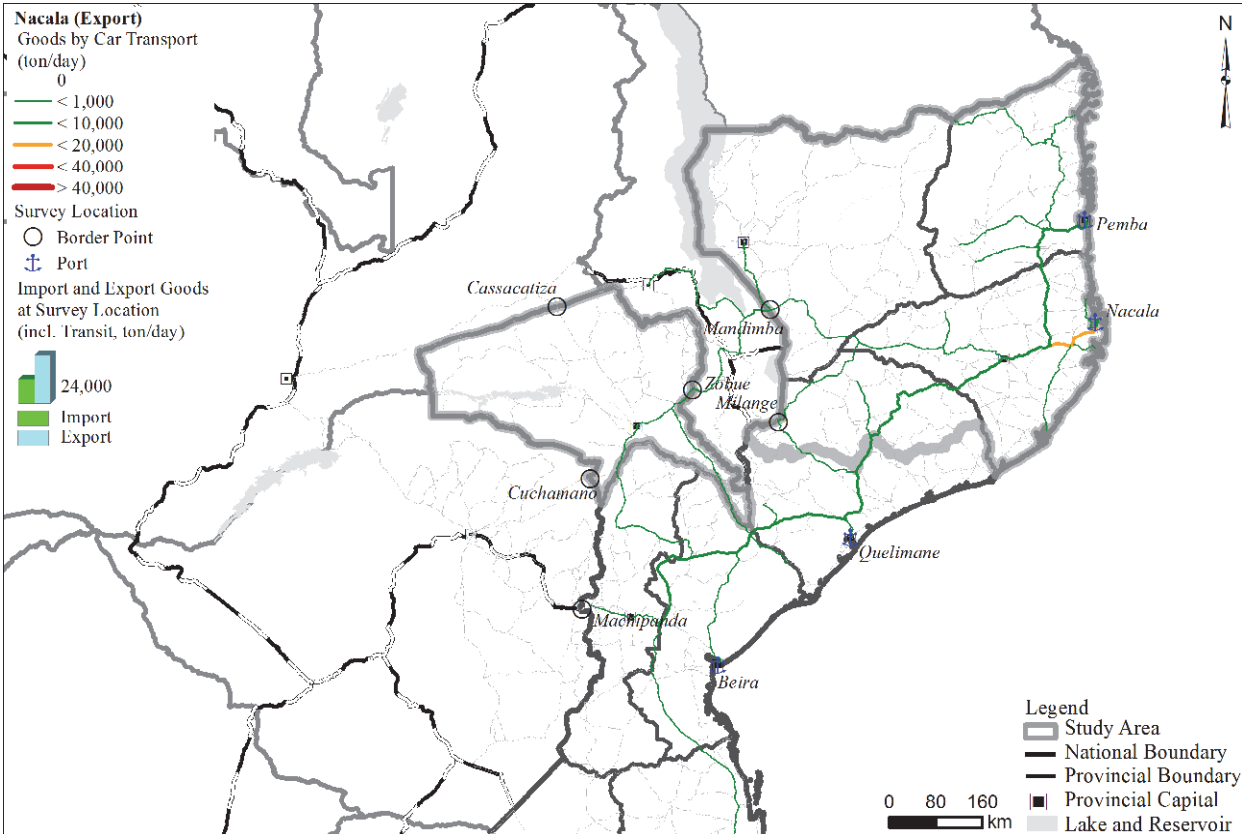
**[B-5-22] Cargo Volume in Import (from Zimbabwe to Cuchamano) (ton/day)**



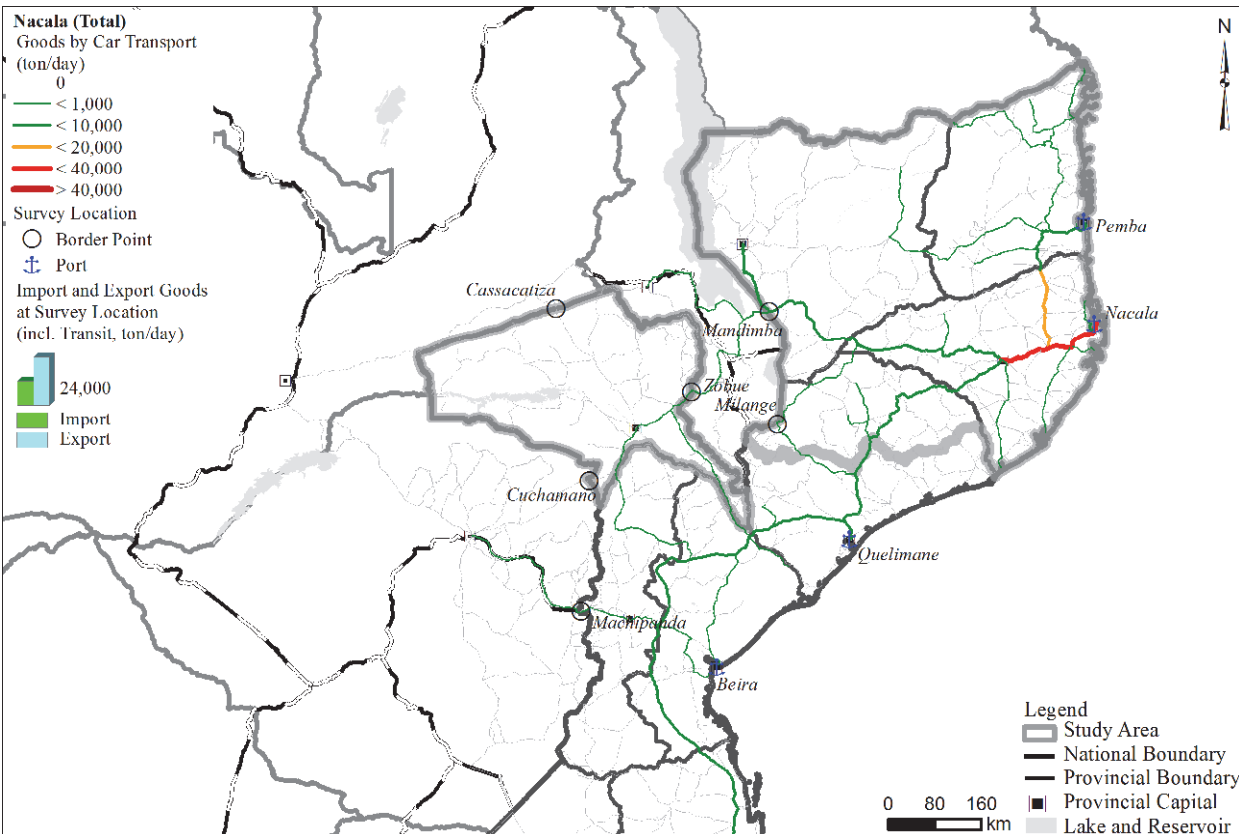
B. Existing Conditions / B-5 Logistics

via Nacala Port

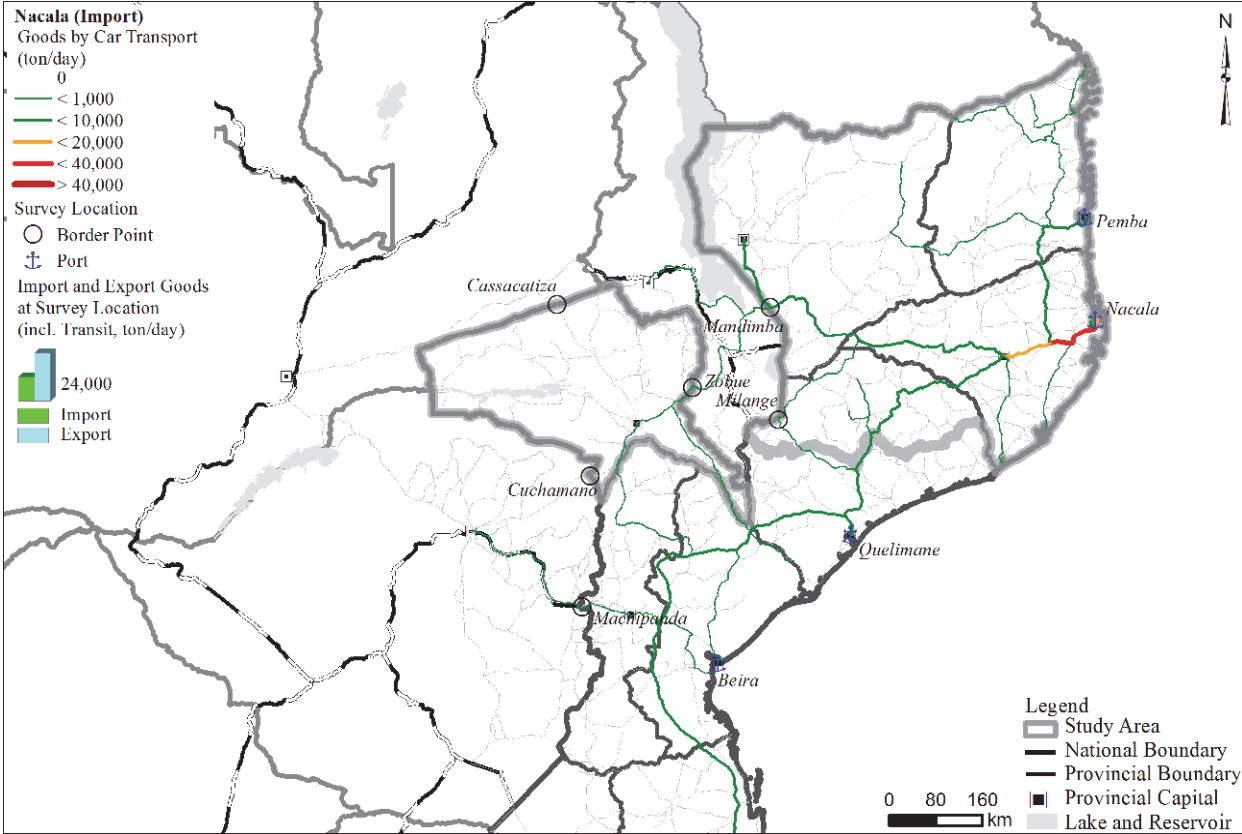
[B-5-24] Cargo Volume in Export (ton/day)



[B-5-23] Cargo Volume in Total (ton/day)



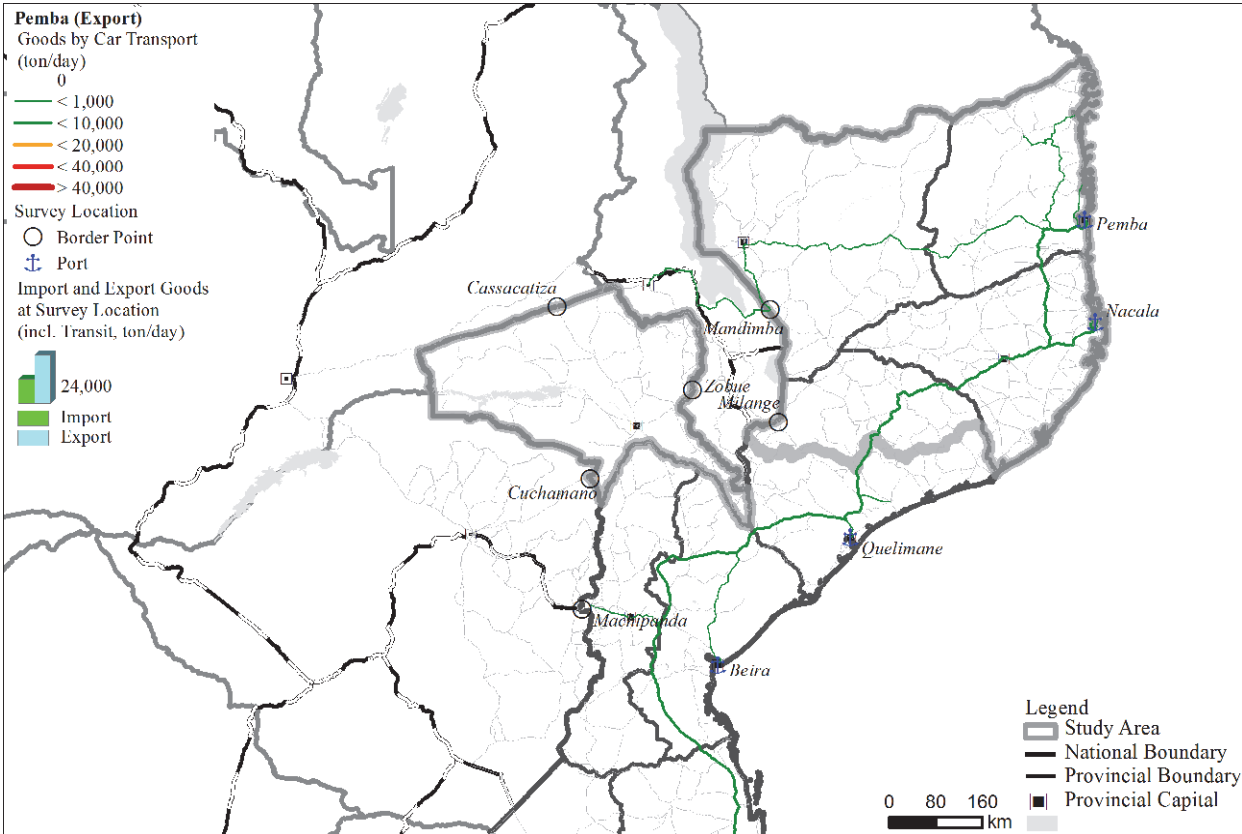
[B-5-25] Cargo Volume in Import (ton/day)



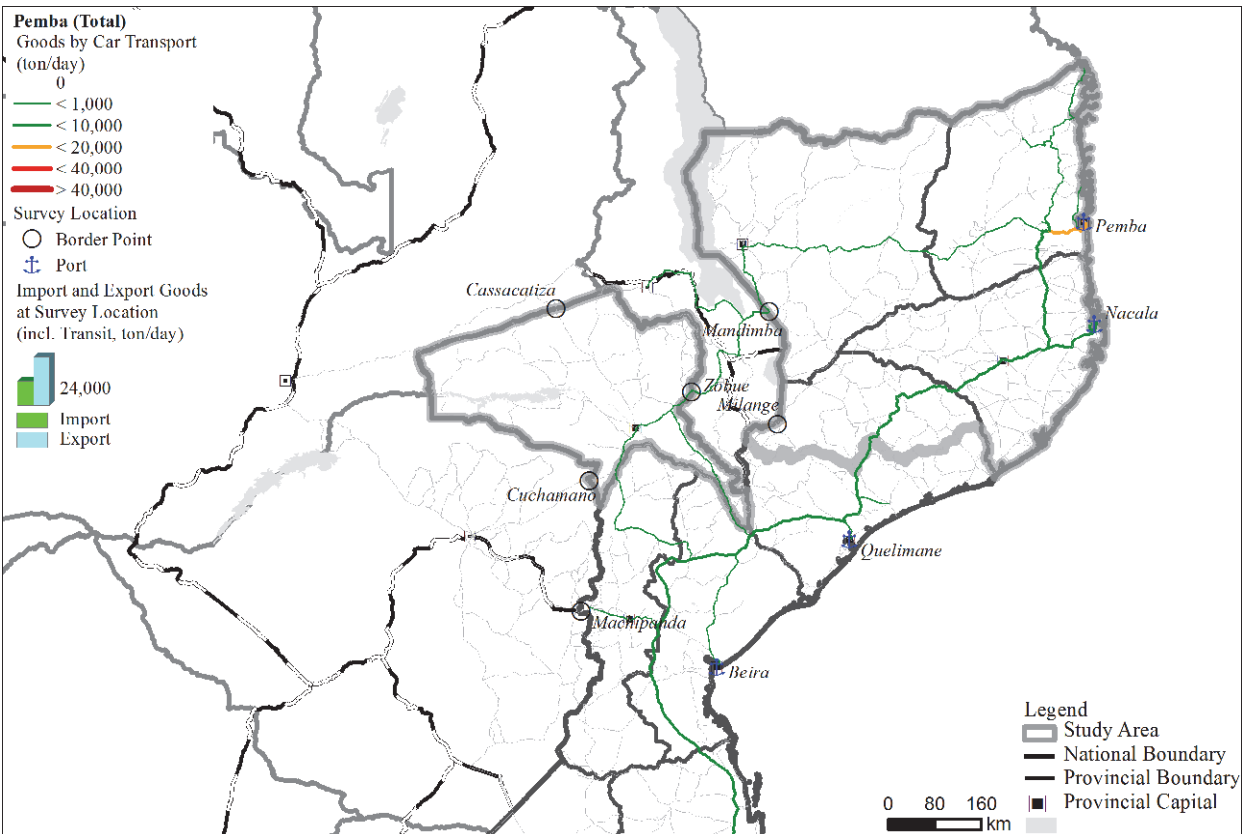
B. Existing Conditions / B-5 Logistics

via Pemba Port

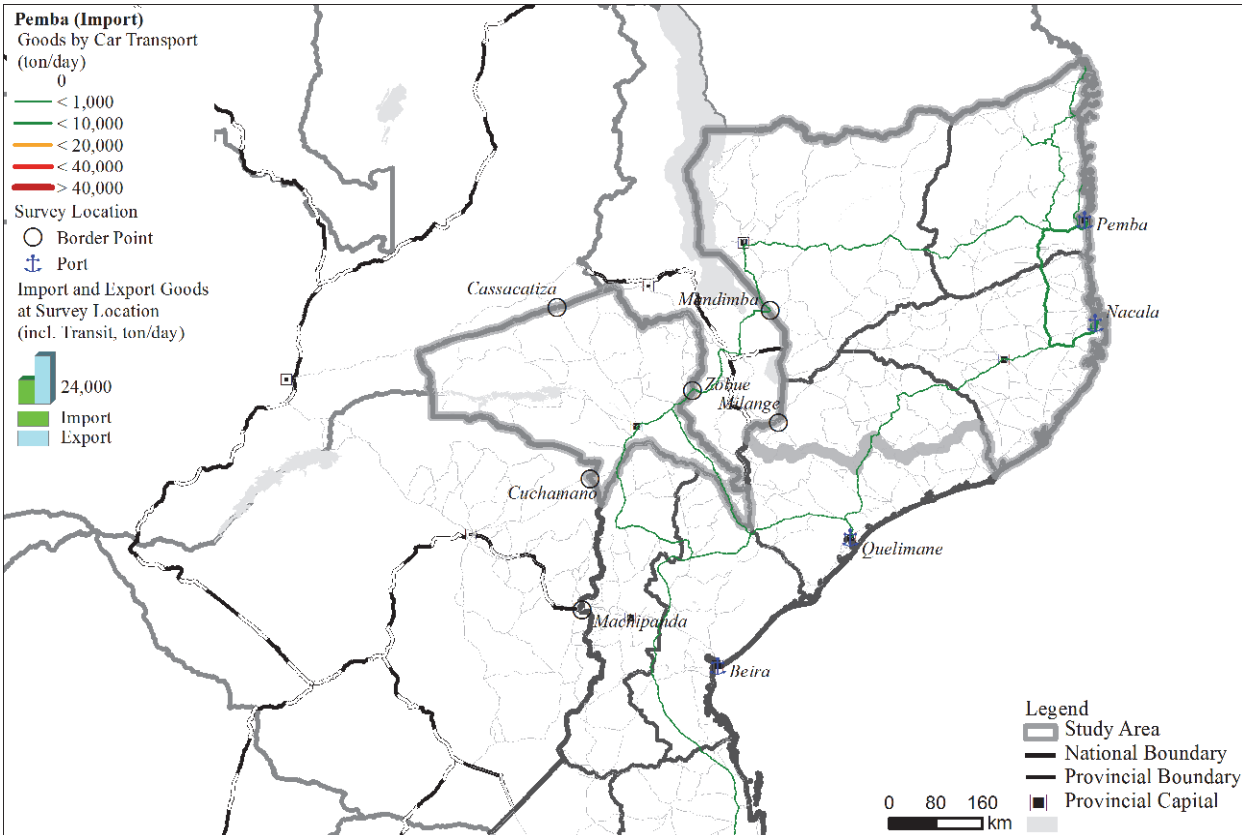
[B-5-27] Cargo Volume in Export (ton/day)



[B-5-26] Cargo Volume in Total (ton/day)



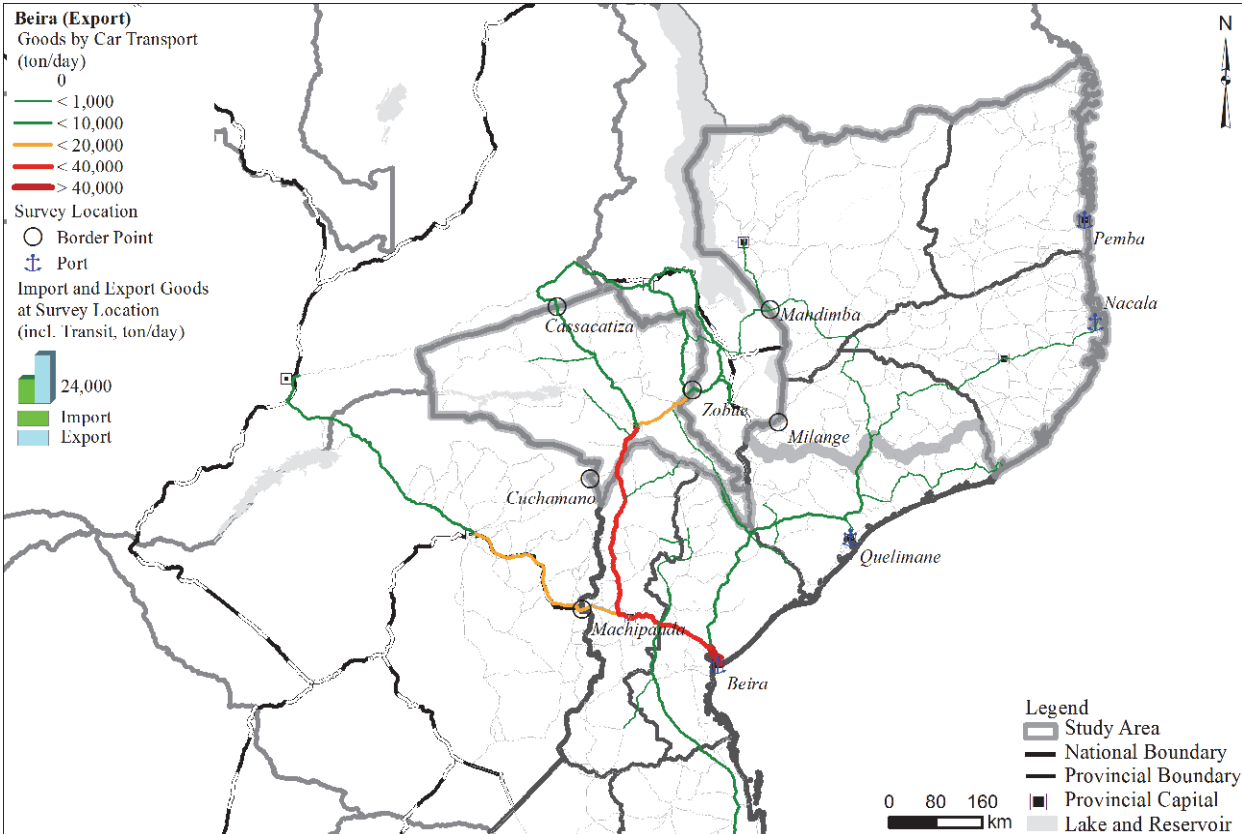
[B-5-28] Cargo Volume in Import (ton/day)



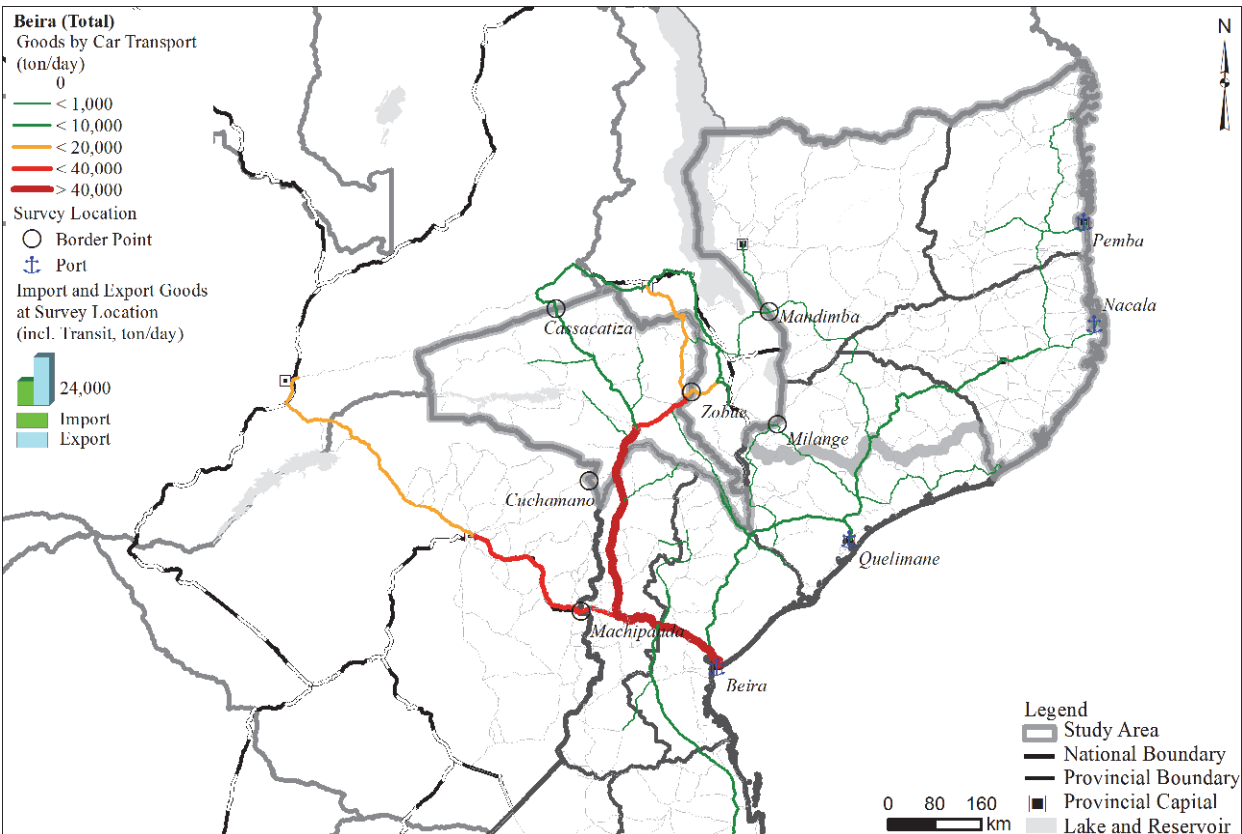
**B. Existing Conditions / B-5 Logistics**

via Beira Port

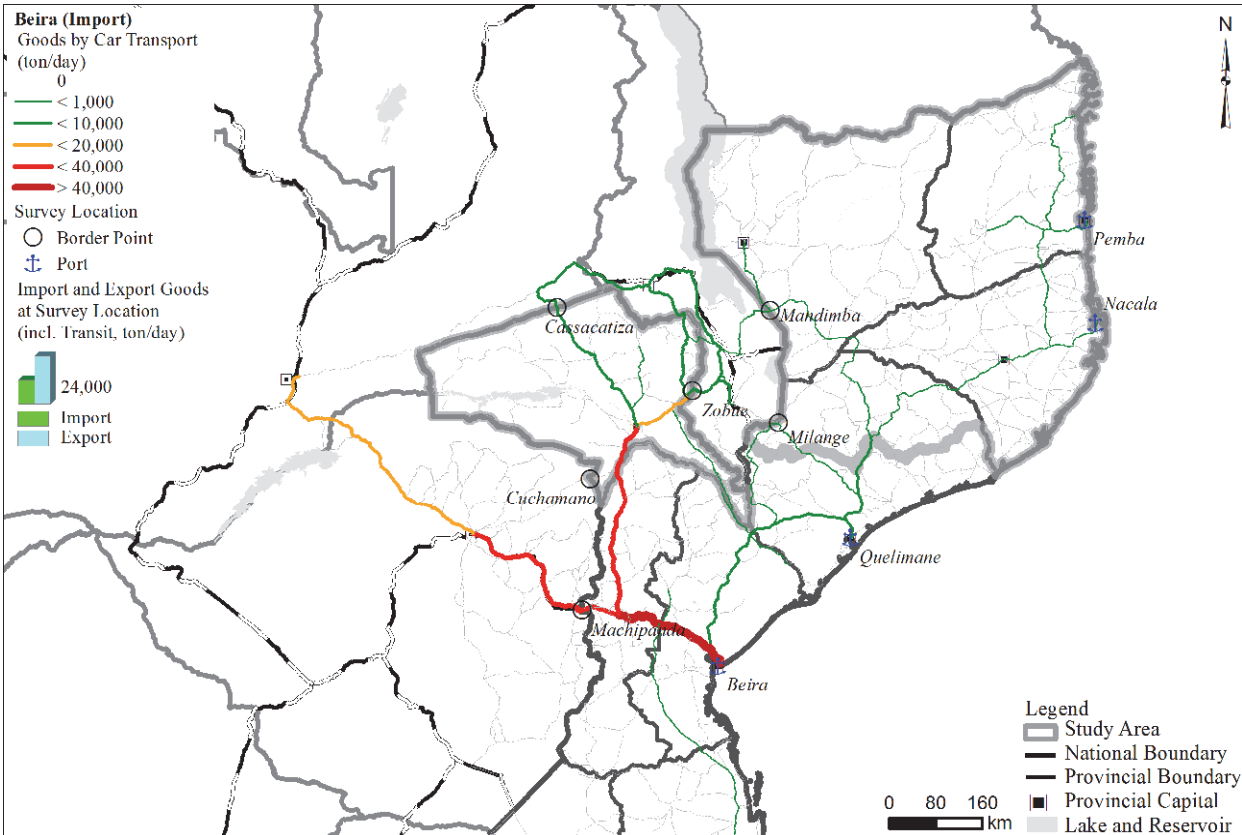
[B-5-30] Cargo Volume in Export (ton/day)



[B-5-29] Cargo Volume in Total (ton/day)



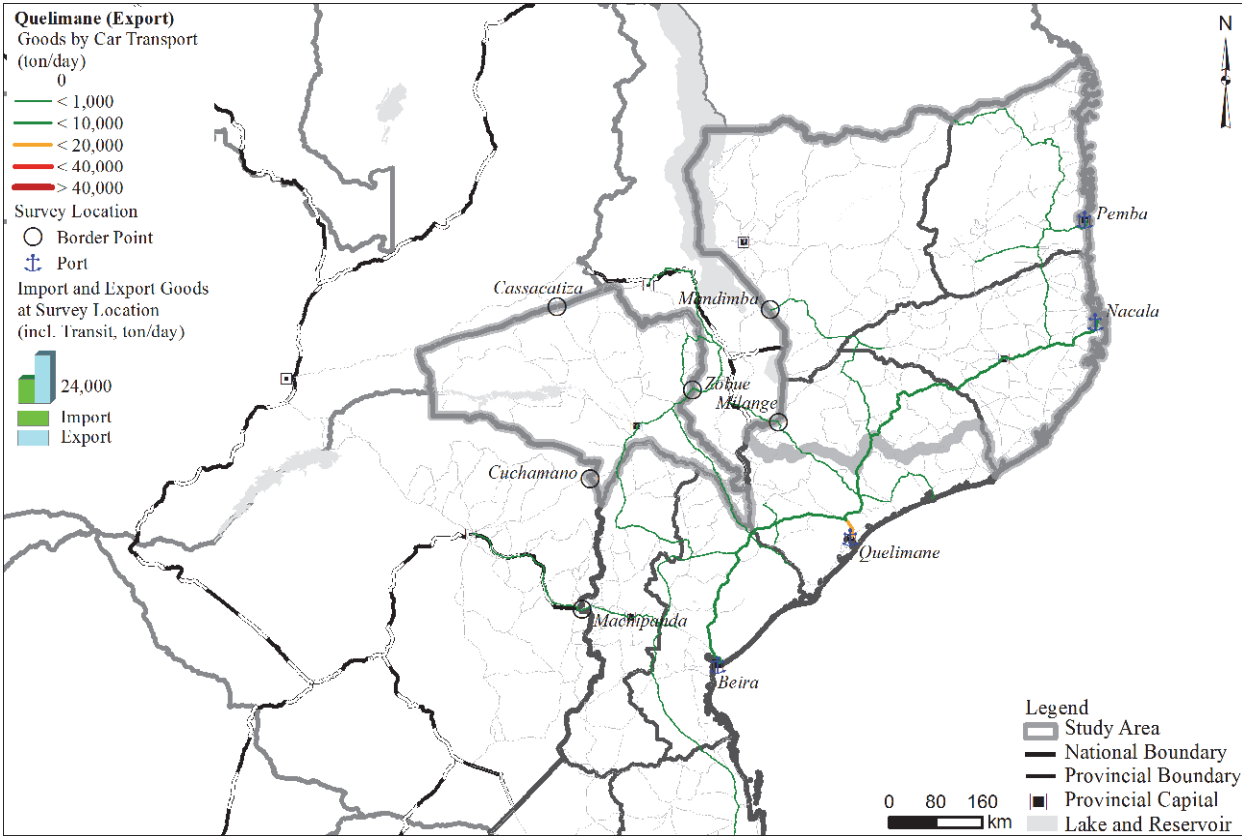
[B-5-31] Cargo Volume in Import (ton/day)



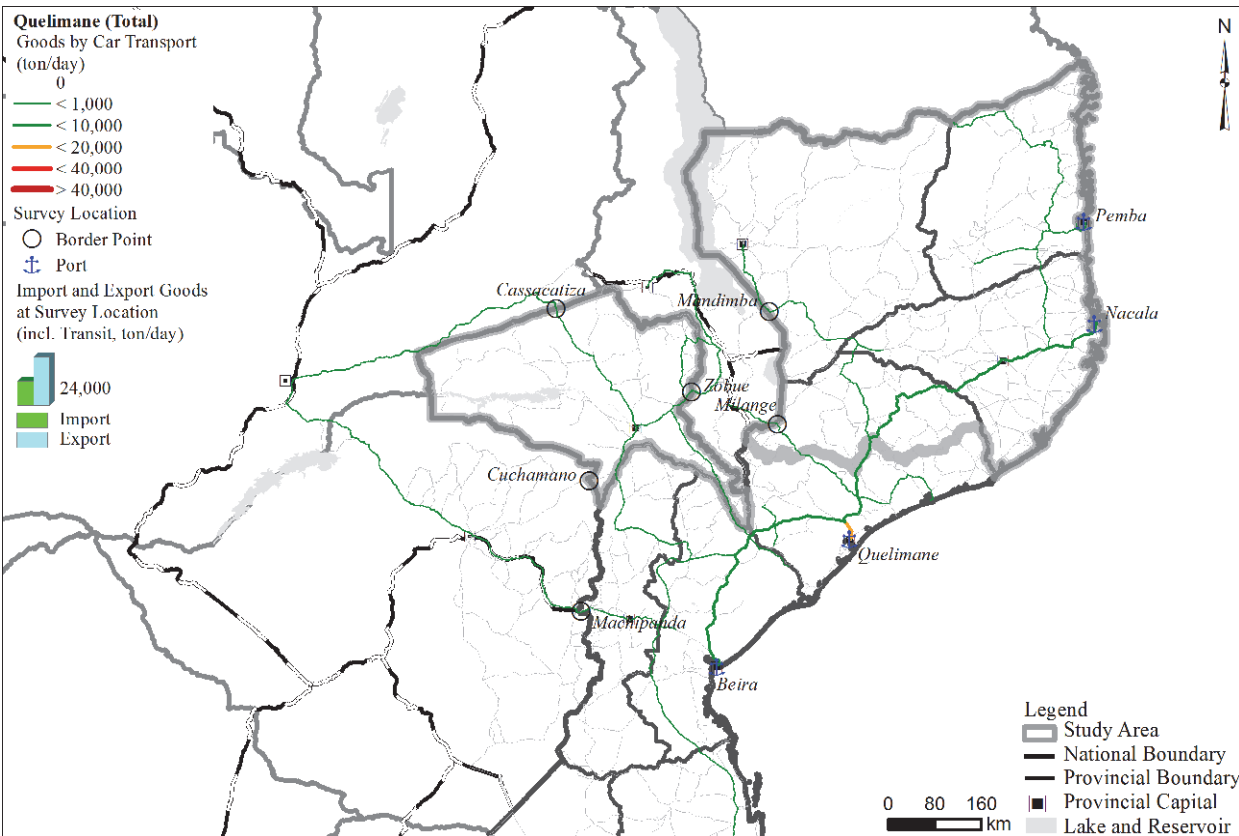
B. Existing Conditions / B-5 Logistics

via Quelimane Port

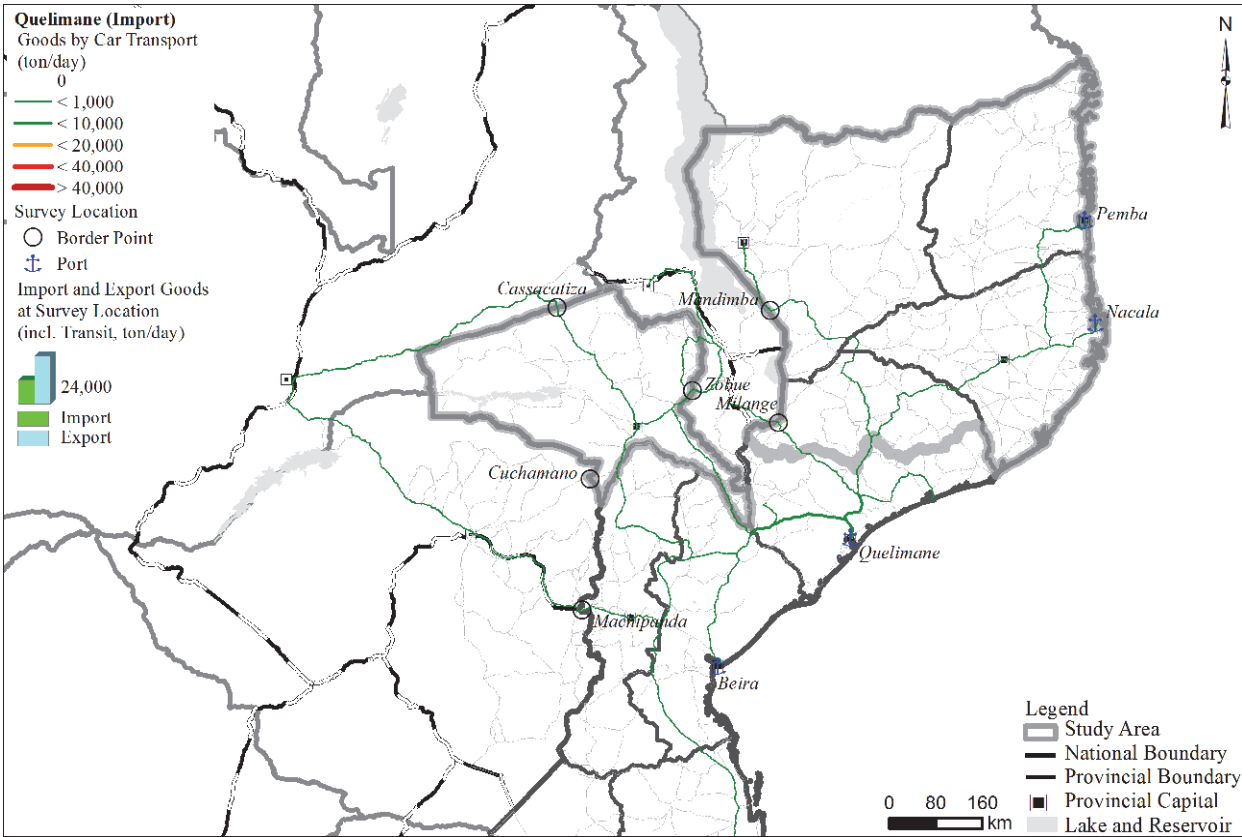
[B-5-33] Cargo Volume in Export (ton/day)



[B-5-32] Cargo Volume in Total (ton/day)



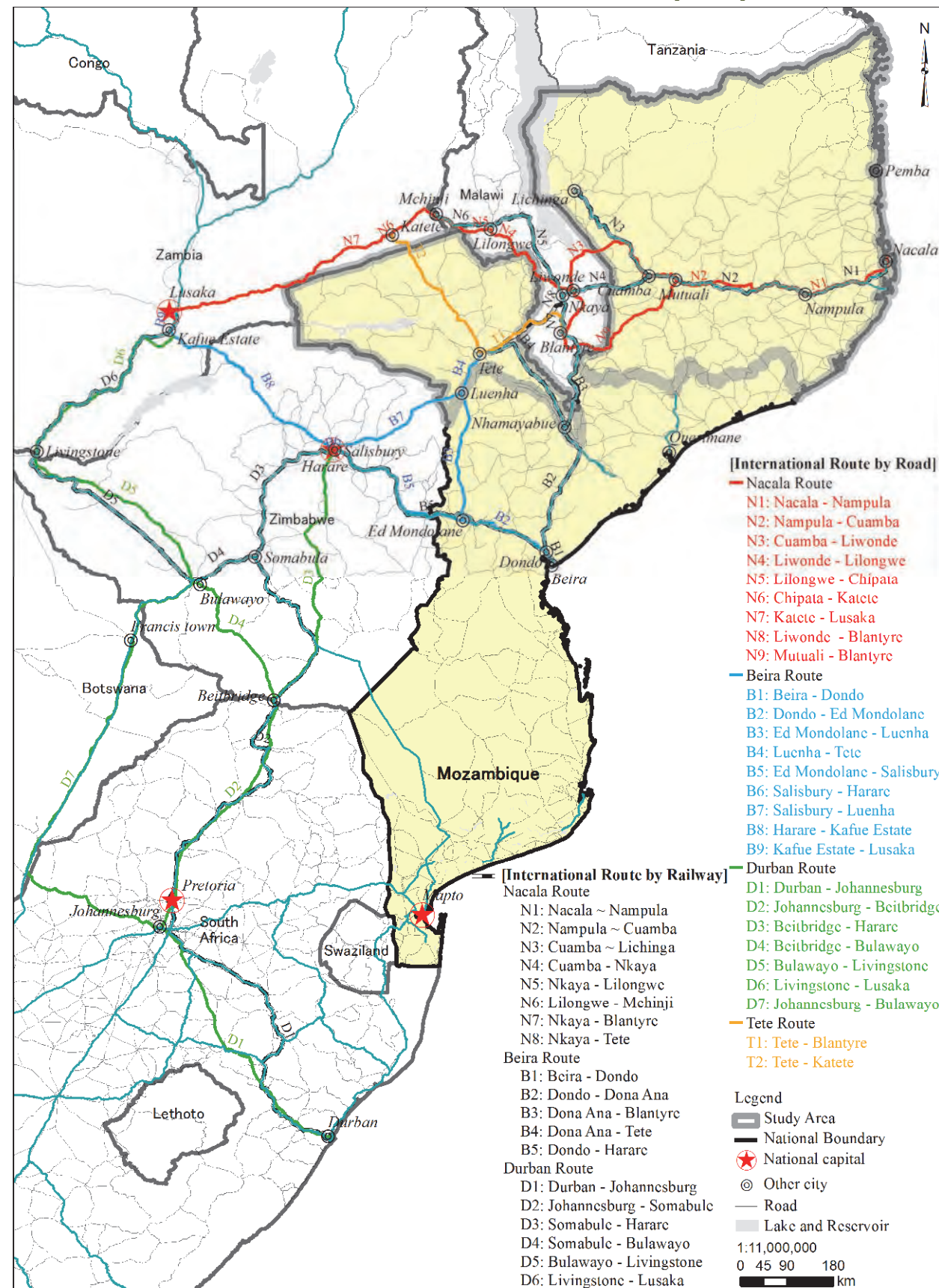
[B-5-34] Cargo Volume in Import (ton/day)



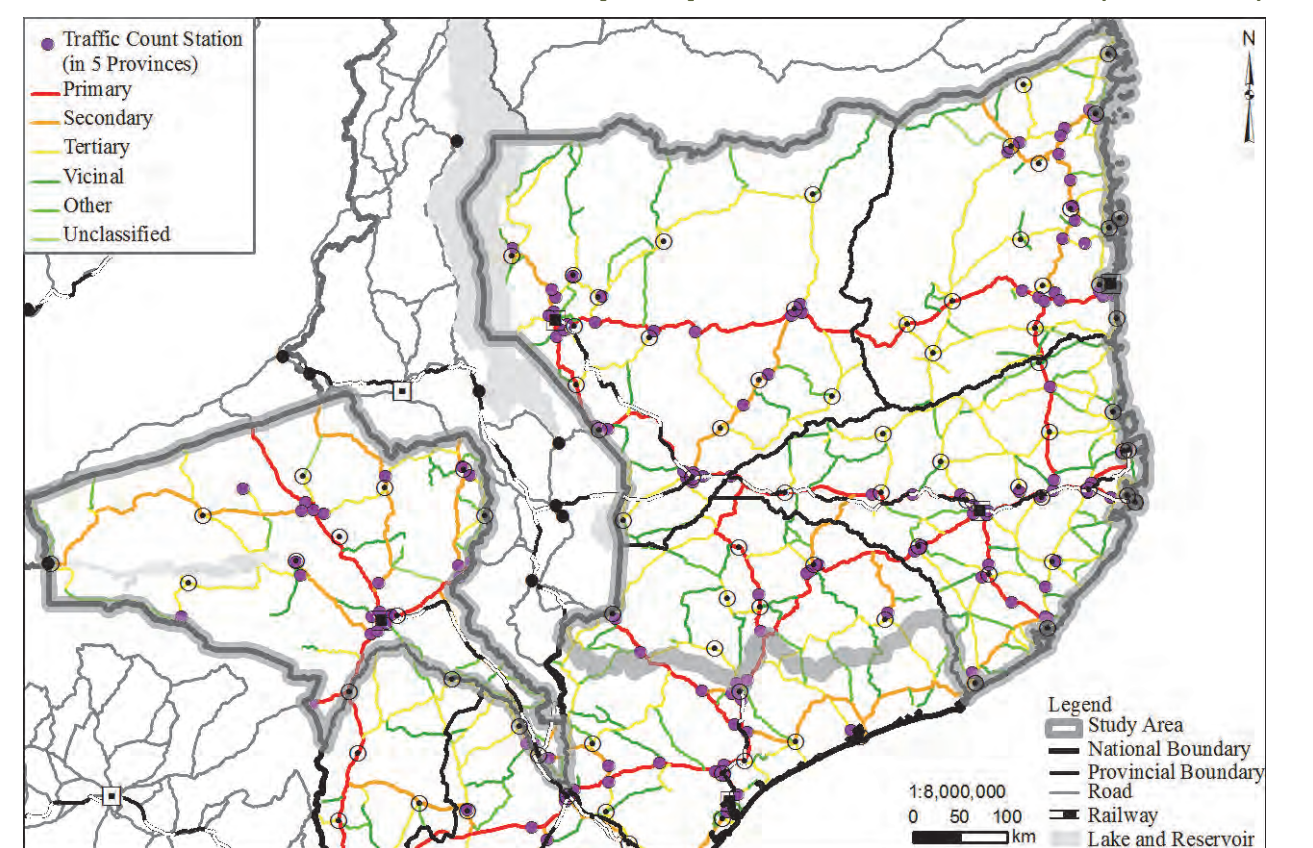


## B. Existing Conditions / B-5 Logistics

[B-5-35] International Routes

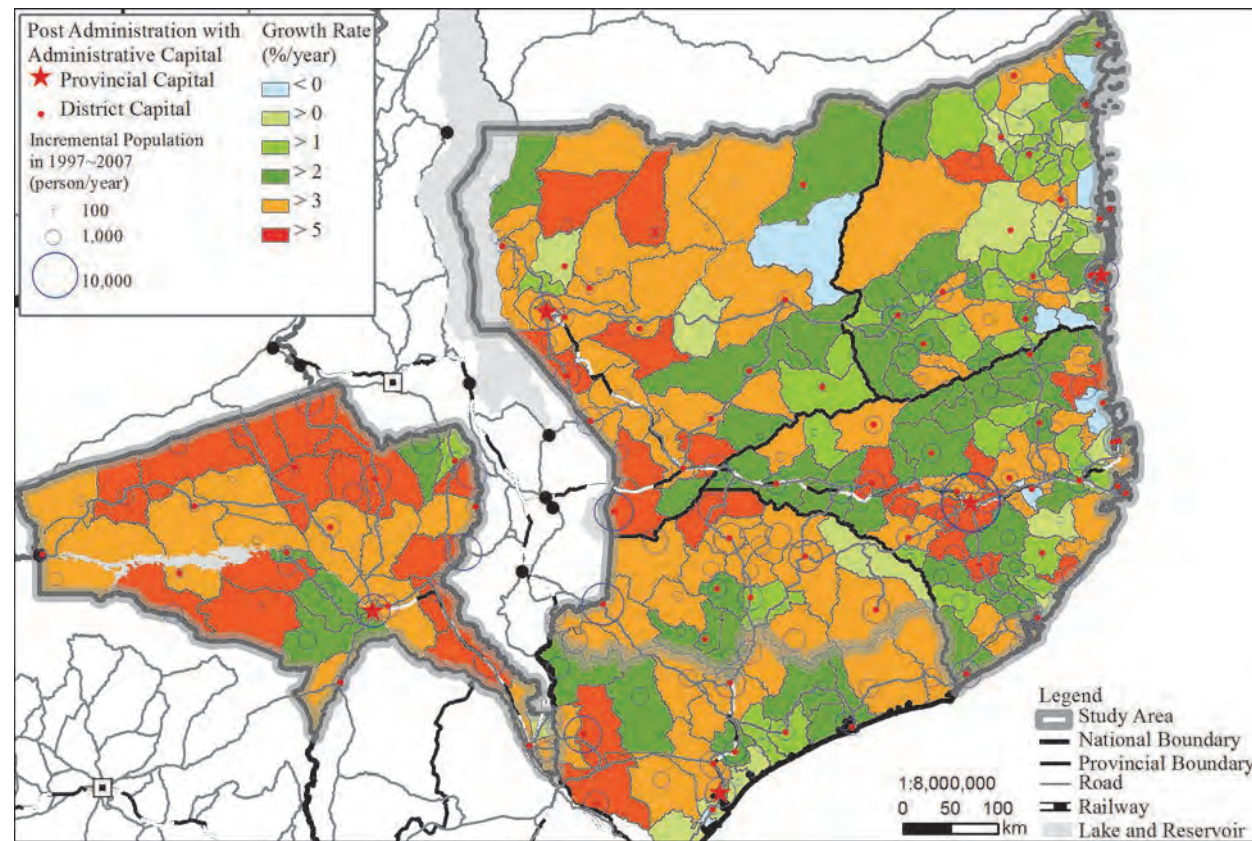


[B-5-36] Traffic Count Sites in 5 Province (Source: ANE)

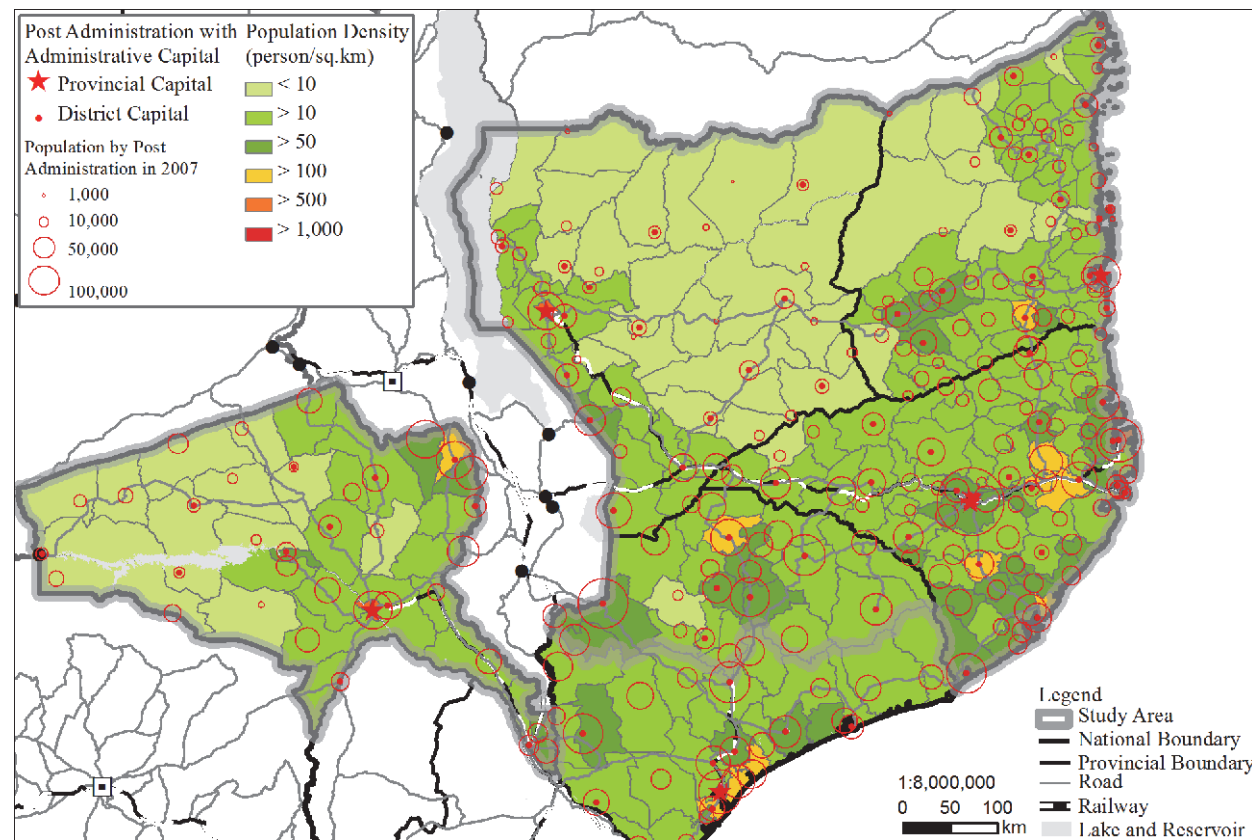


## B. Existing Conditions / B-6 Regional Structure & Information

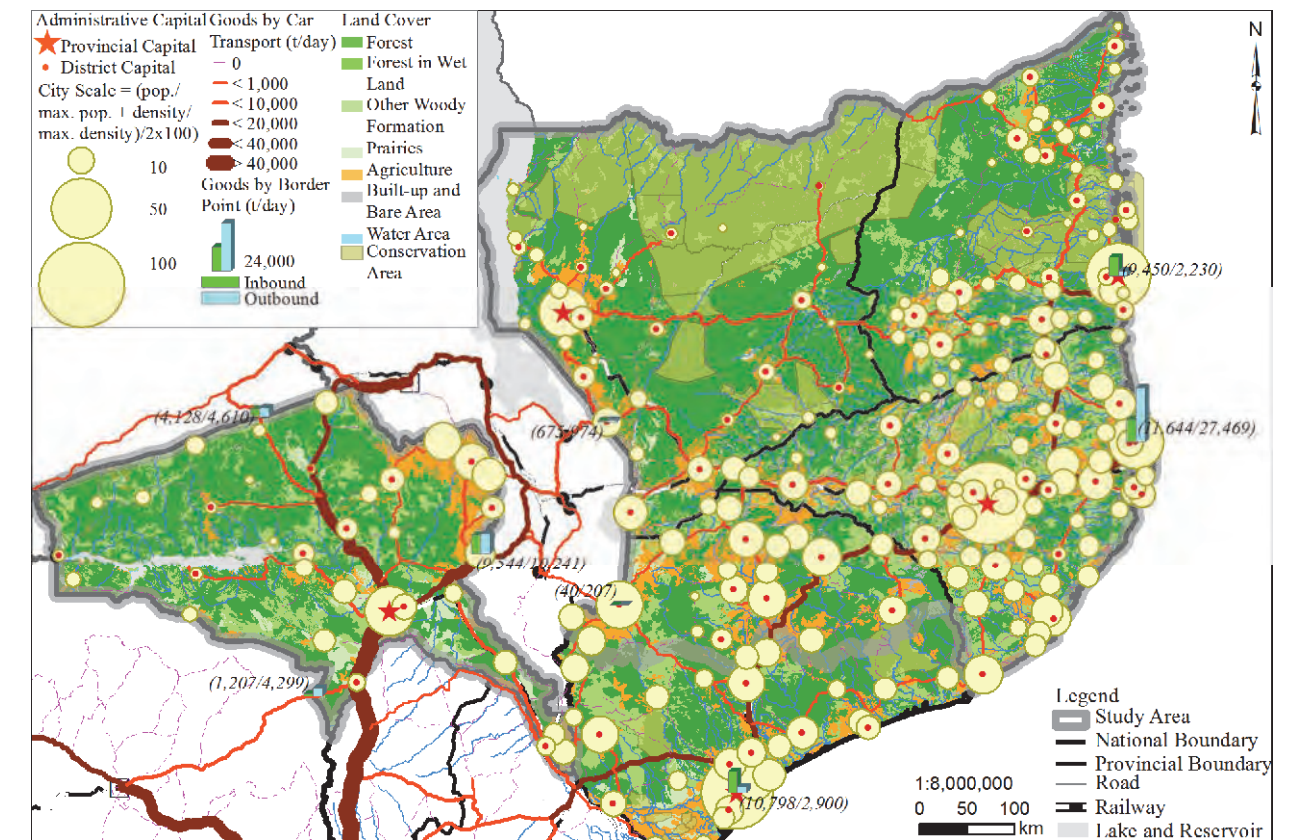
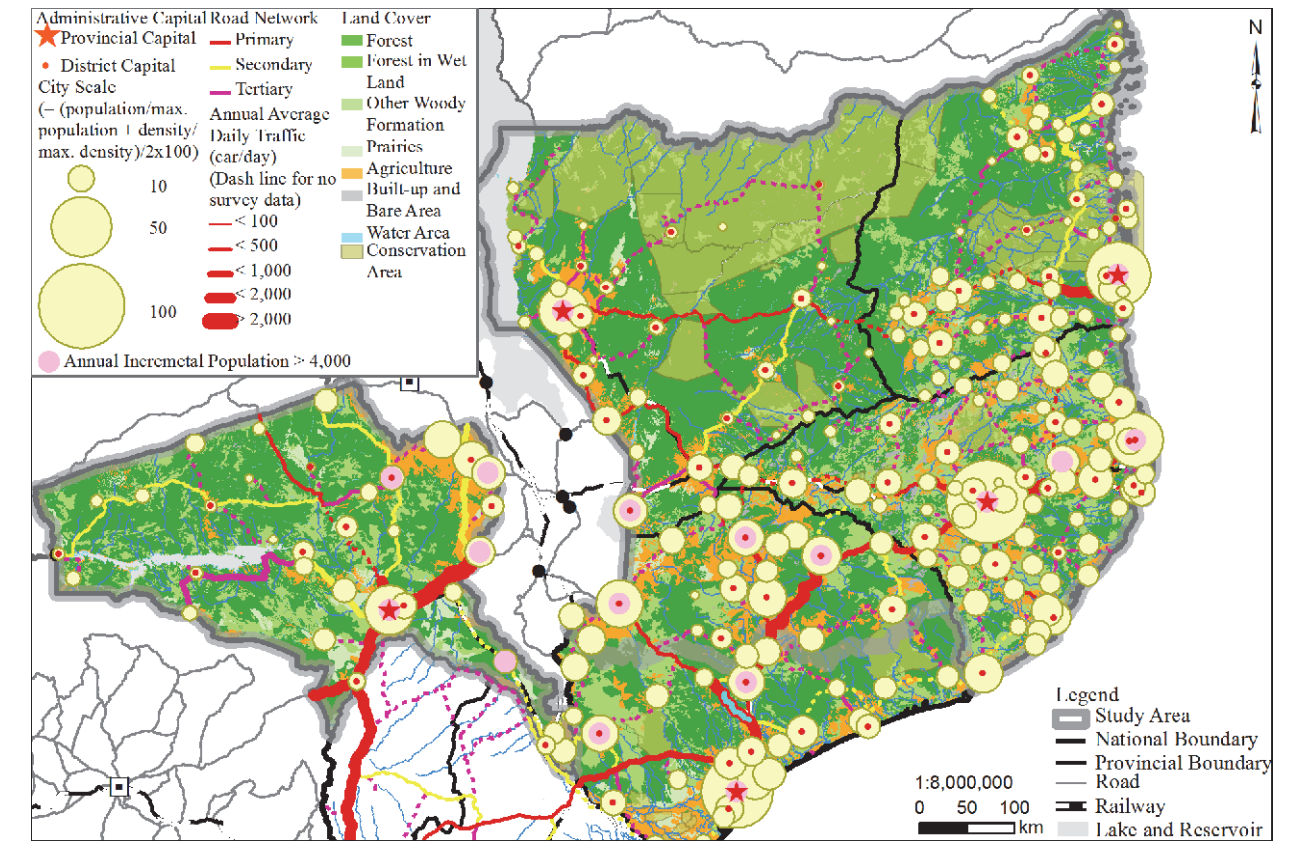
[B-6-1] Population Growth Rate by Administrative Post (1997-2007)



[B-6-2] Population Density by Administrative Post (2007)

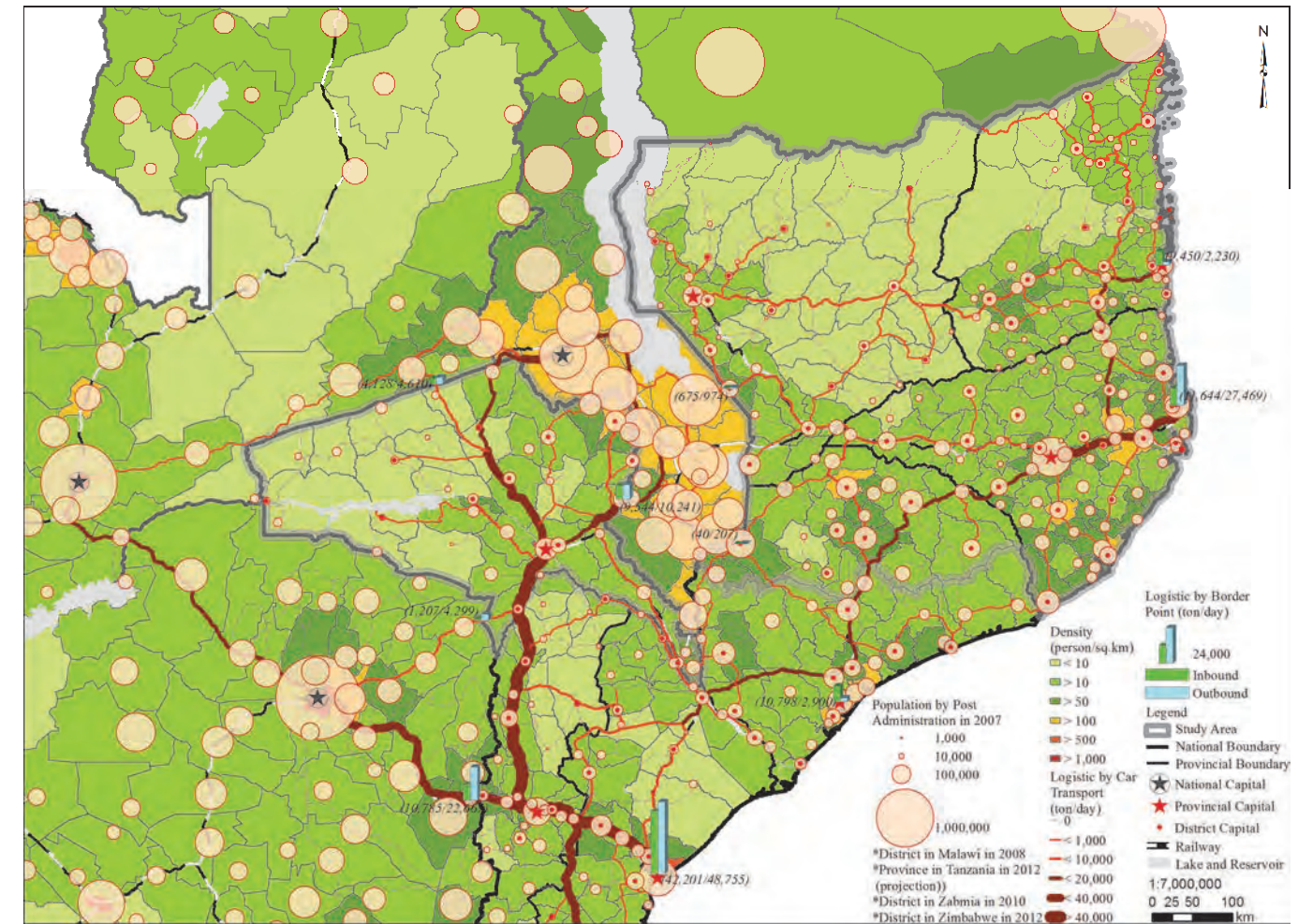
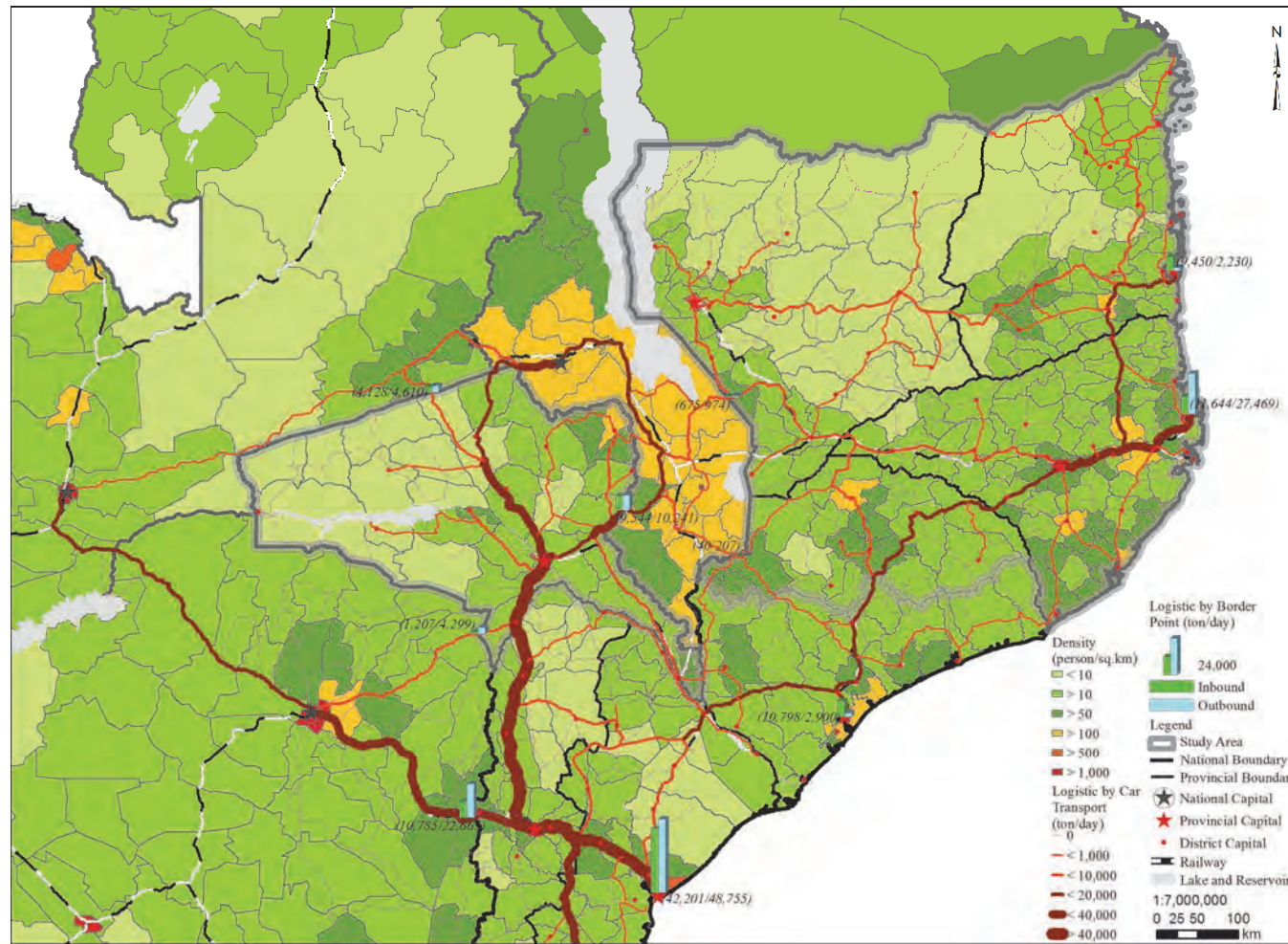


[B-6-3] Regional Structure (Population/Density: 2007, Cargo Volume (2012) and Land Cover)



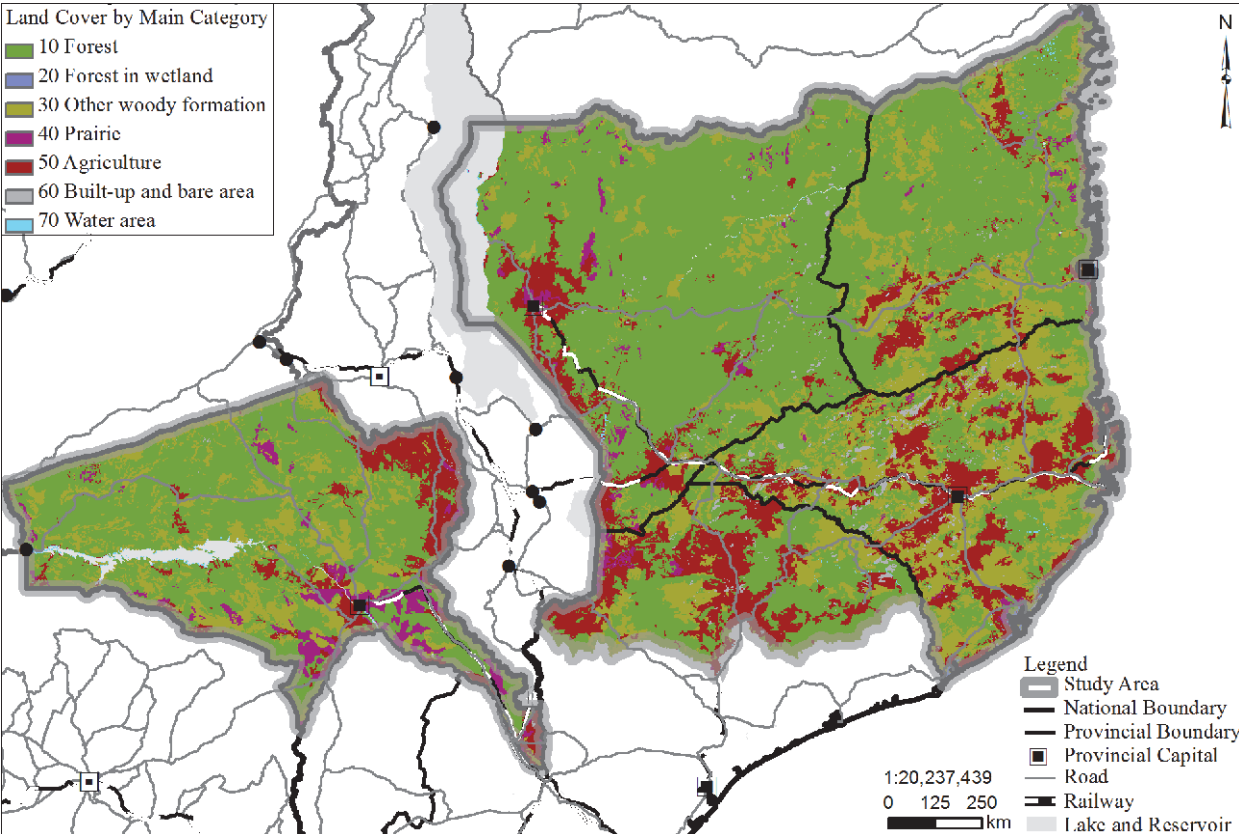
## B. Existing Conditions / B-6 Regional Structure & Information

[B-6-4] Regional Structure with Neighbouring Countries (Population Density: 2007, Cargo Volume (2012))

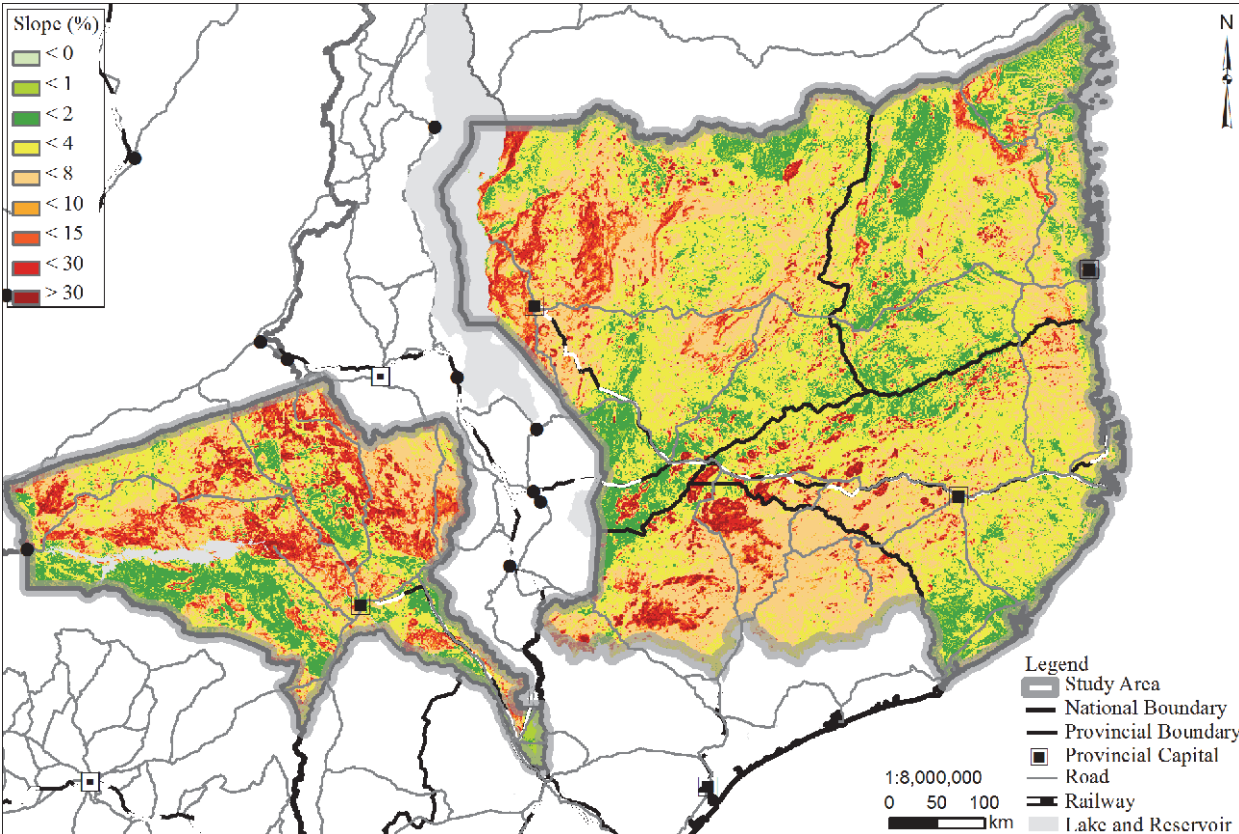


C. Analysis Map / C-1 Agricultural Potentials [Basic Condition]

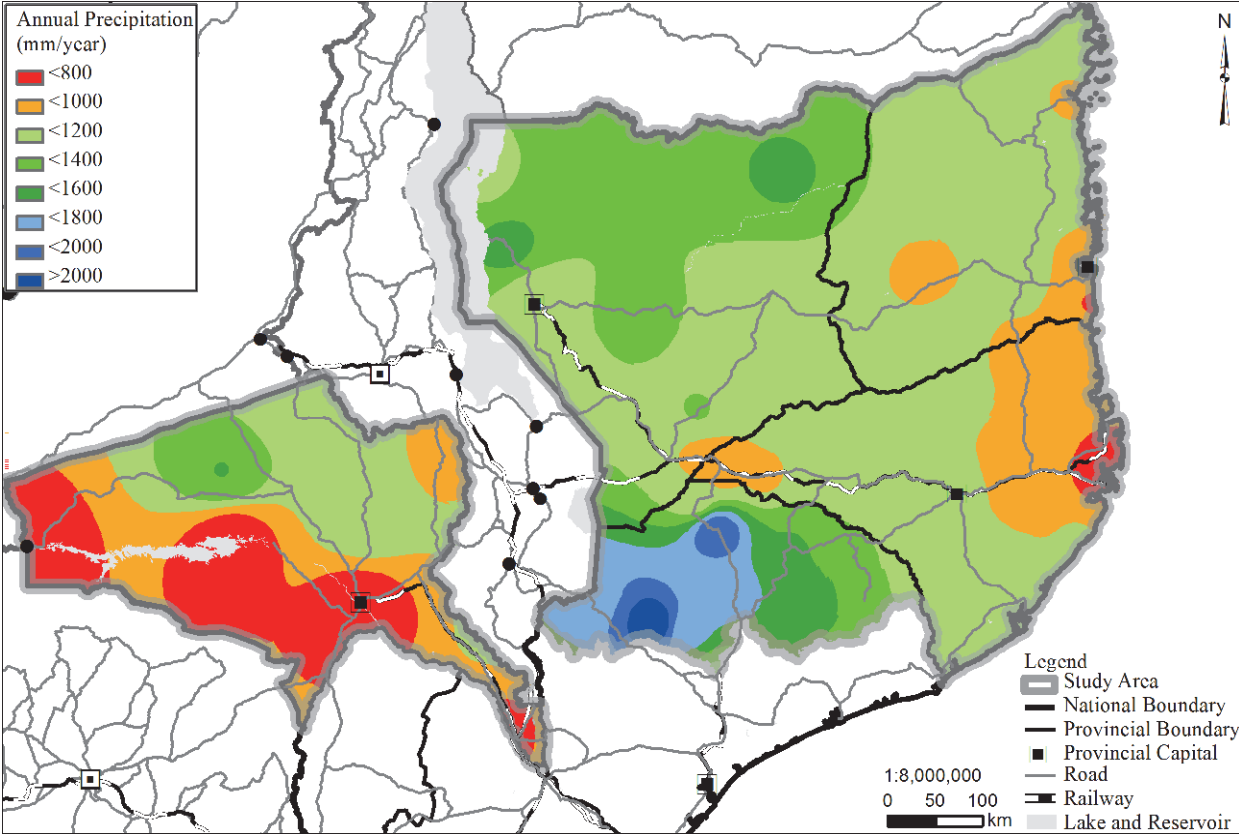
[C-1-1] Land Cover (by main category)



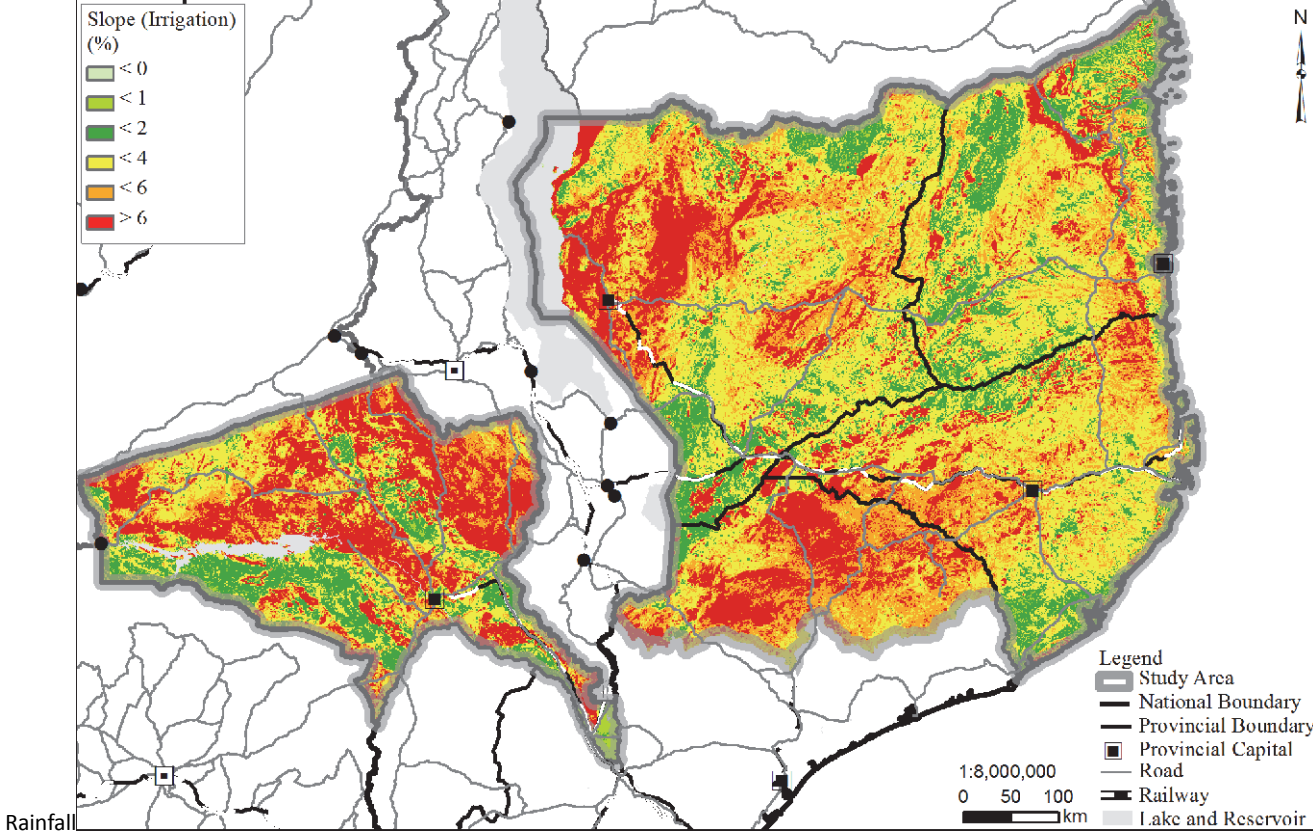
[C-1-3] Slope in each Land Unit



[C-1-2] Rainfall (Annual Precipitation) (mm/year)

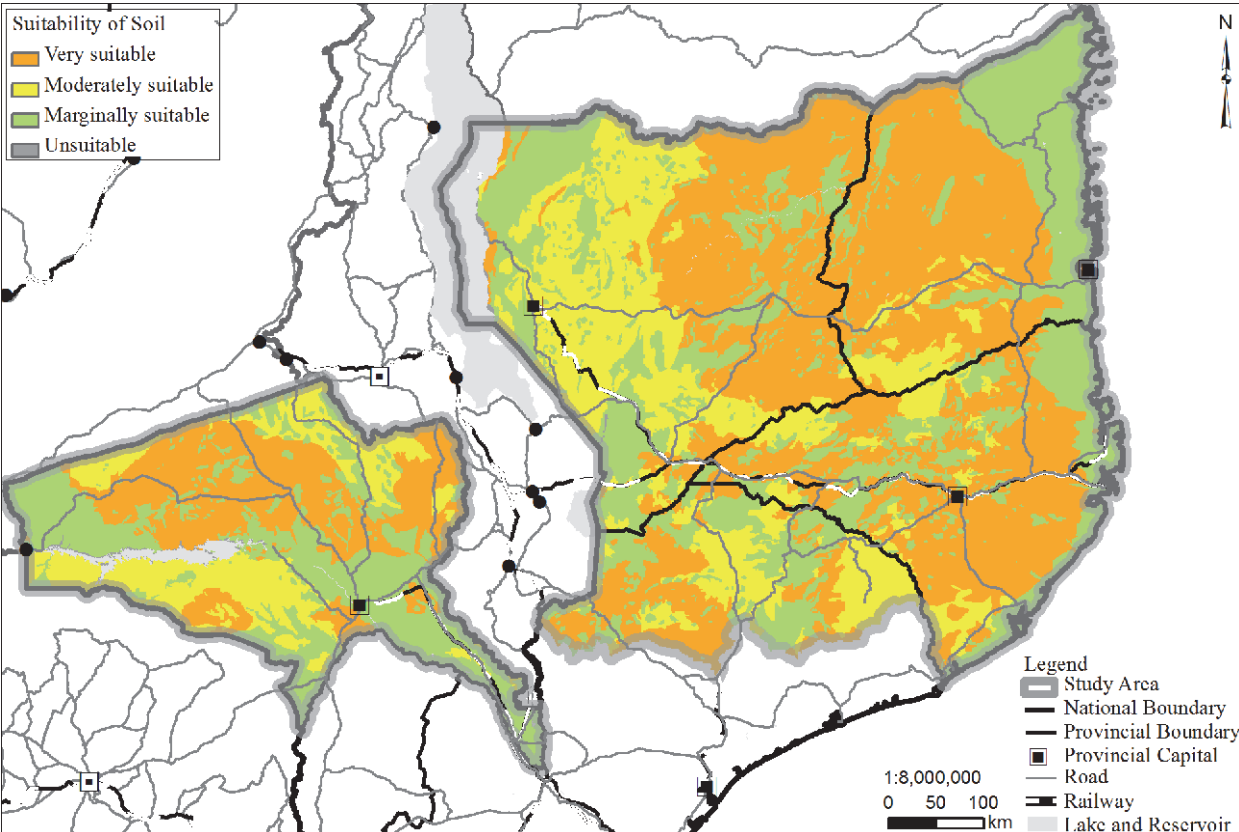


[C-1-4] Slope for Irrigation in each Land Unit

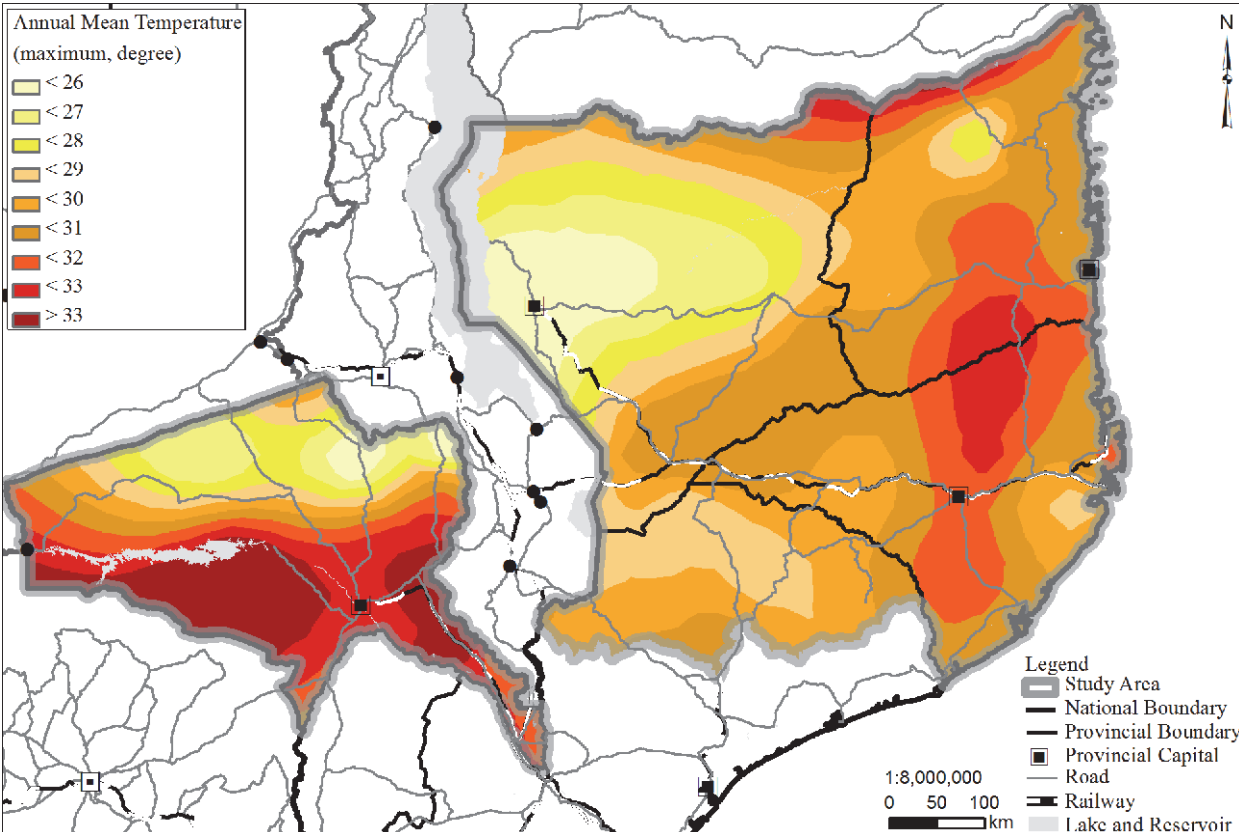


C. Analysis Map / C-1 Agricultural Potentials [Basic Condition]

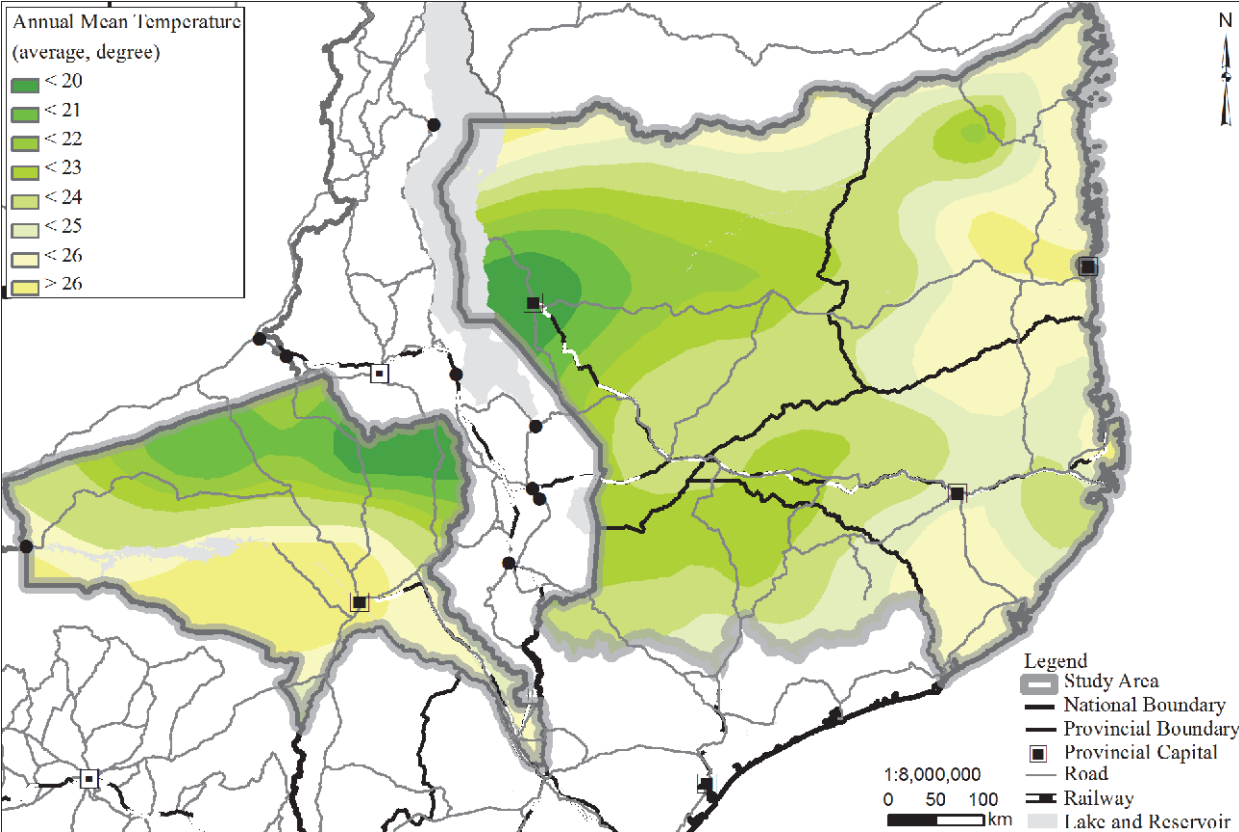
[C-1-5] Soil Suitability



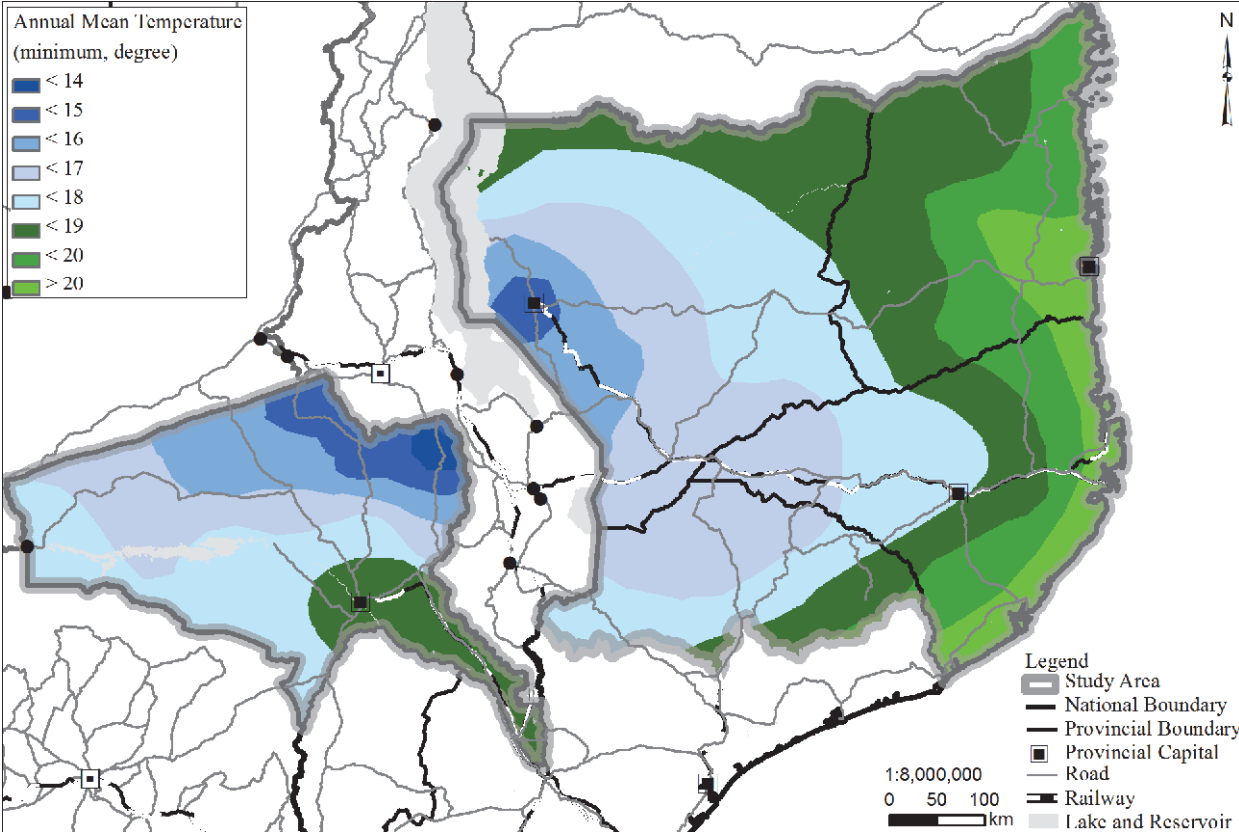
[C-1-7] Temperature (Max.)



[C-1-6] Temperature (Average)

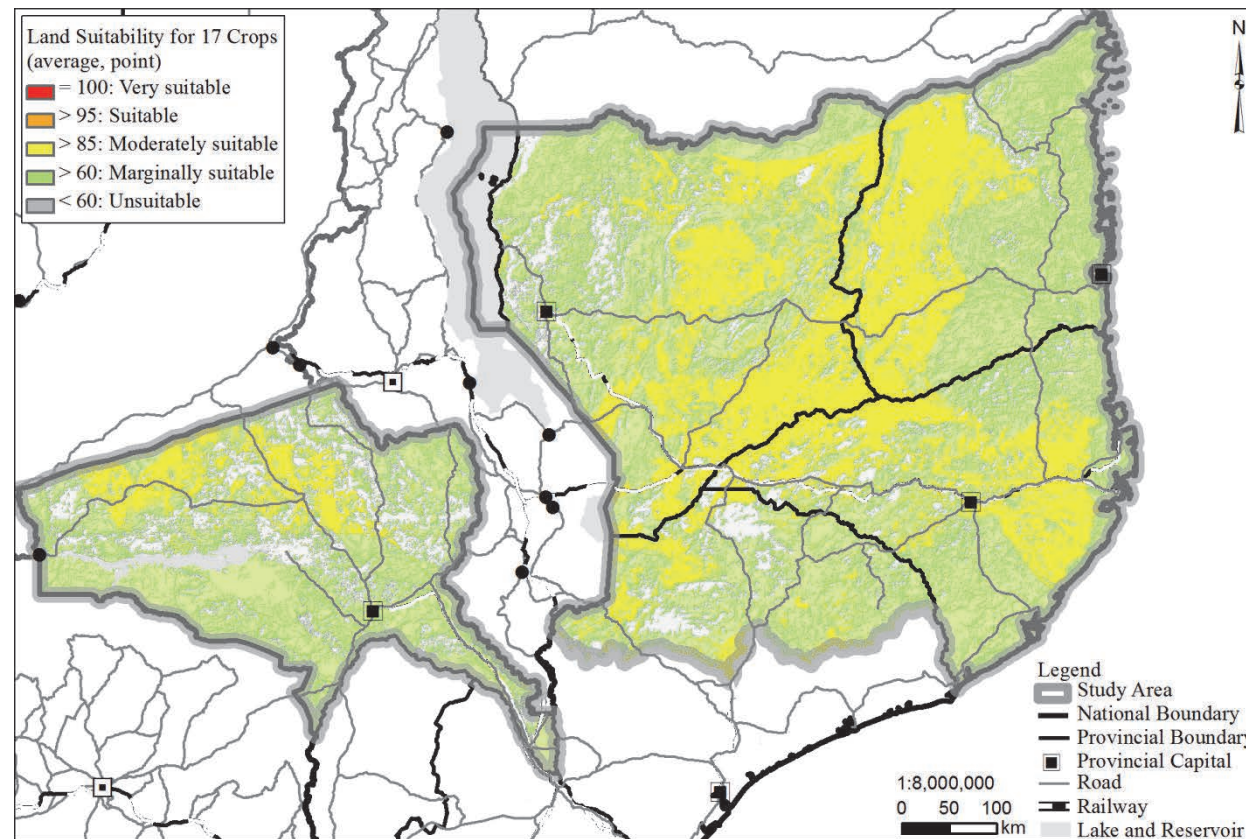


[C-1-8] Temperature (Min.)

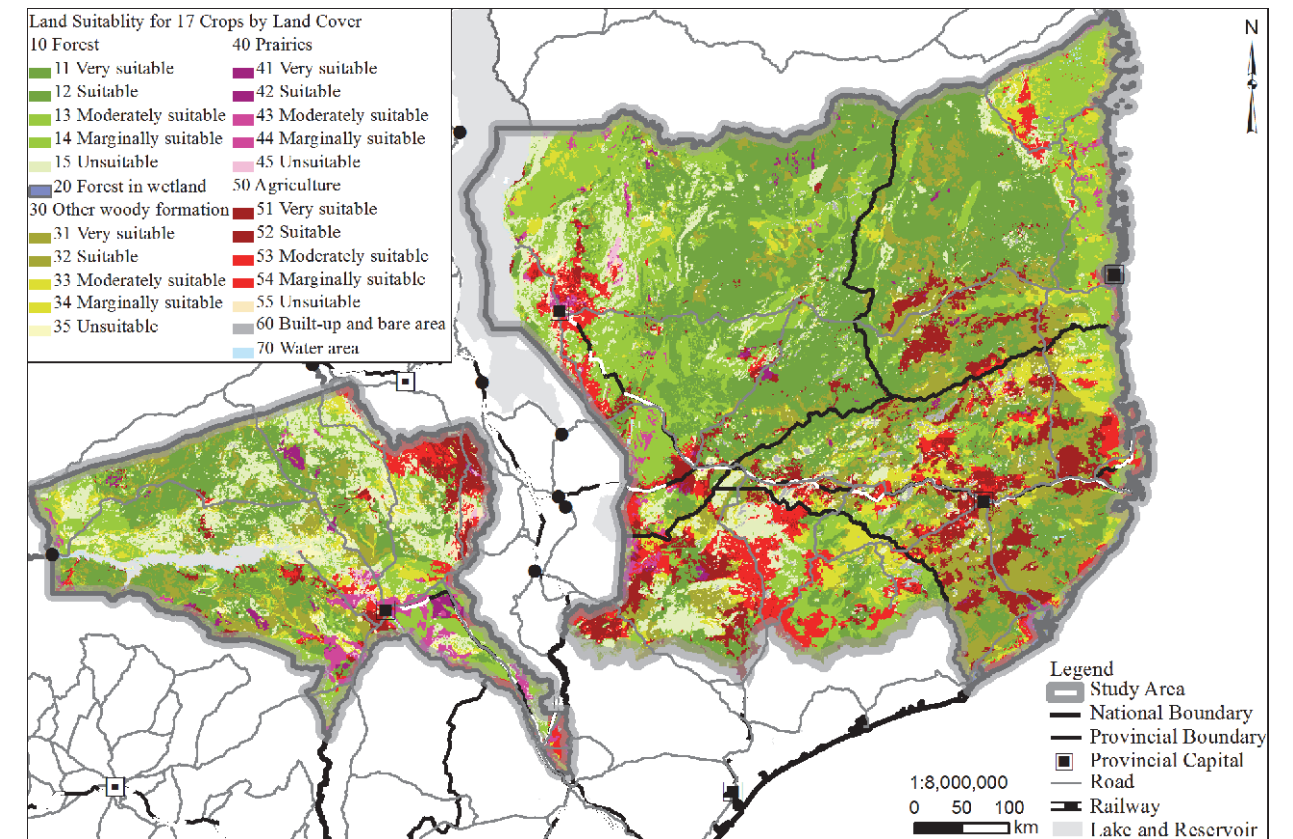


### C. Analysis Map / C-1 Agricultural Potentials [Potentials]

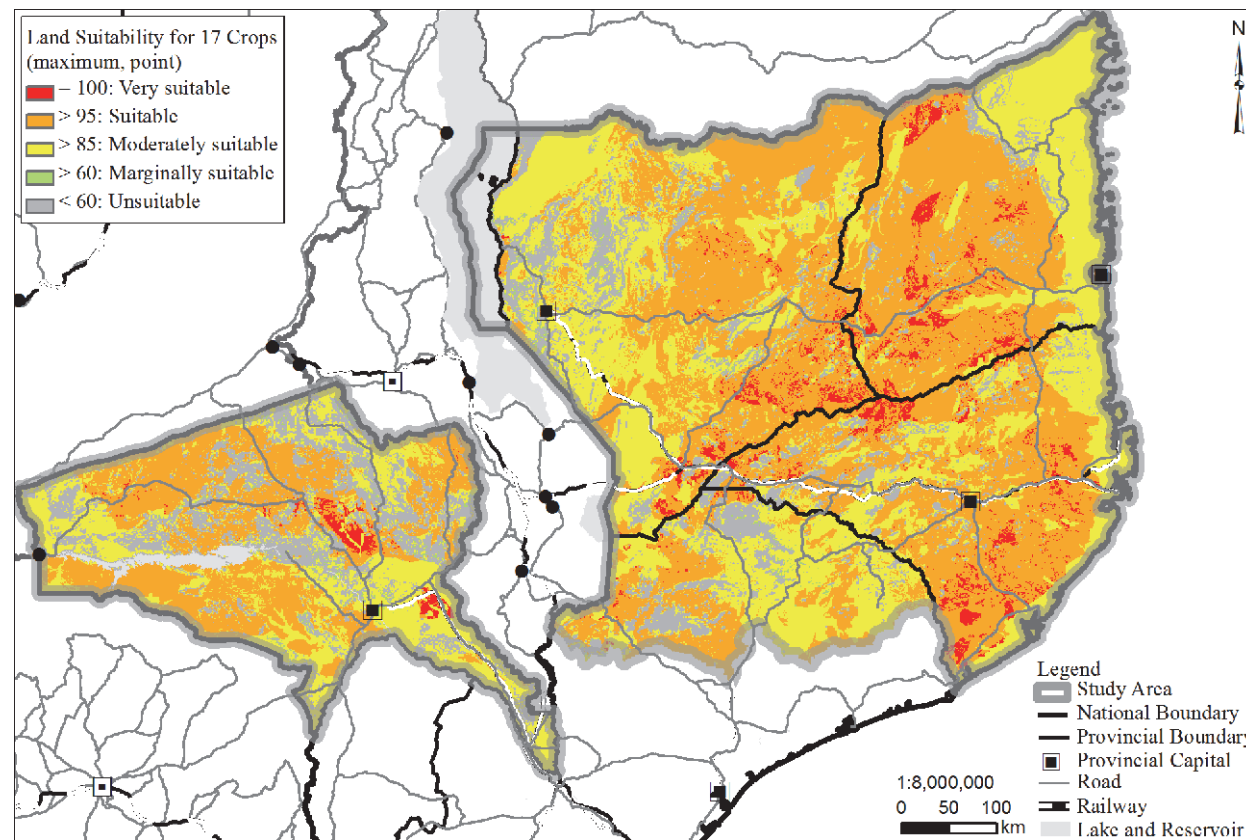
[C-1-9] Land Suitability for 17 Crops (Average Score)



[C-1-11] Land Suitability for 17 Crops by Land Cover



[C-1-10] Land Suitability for 17 Crops (Maximum Score)

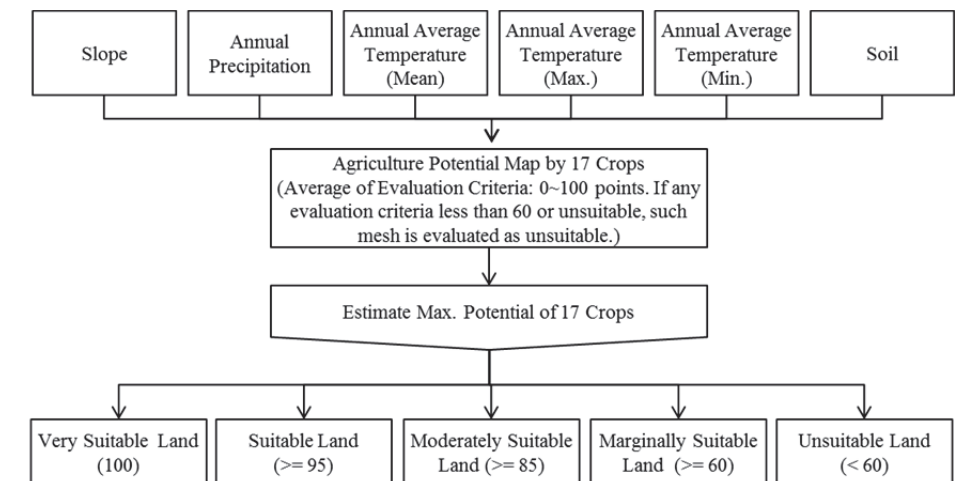


**17 Crops:**

Cabbage, Cashew Nut, Cassava, Cotton, Cowpea, Ground Nut, Haricot Bean, Maize, Onion, Potato, Rice, Sorghum, Soybean, Sugarcane, Sun Flower, Sweet Potato, Tobacco

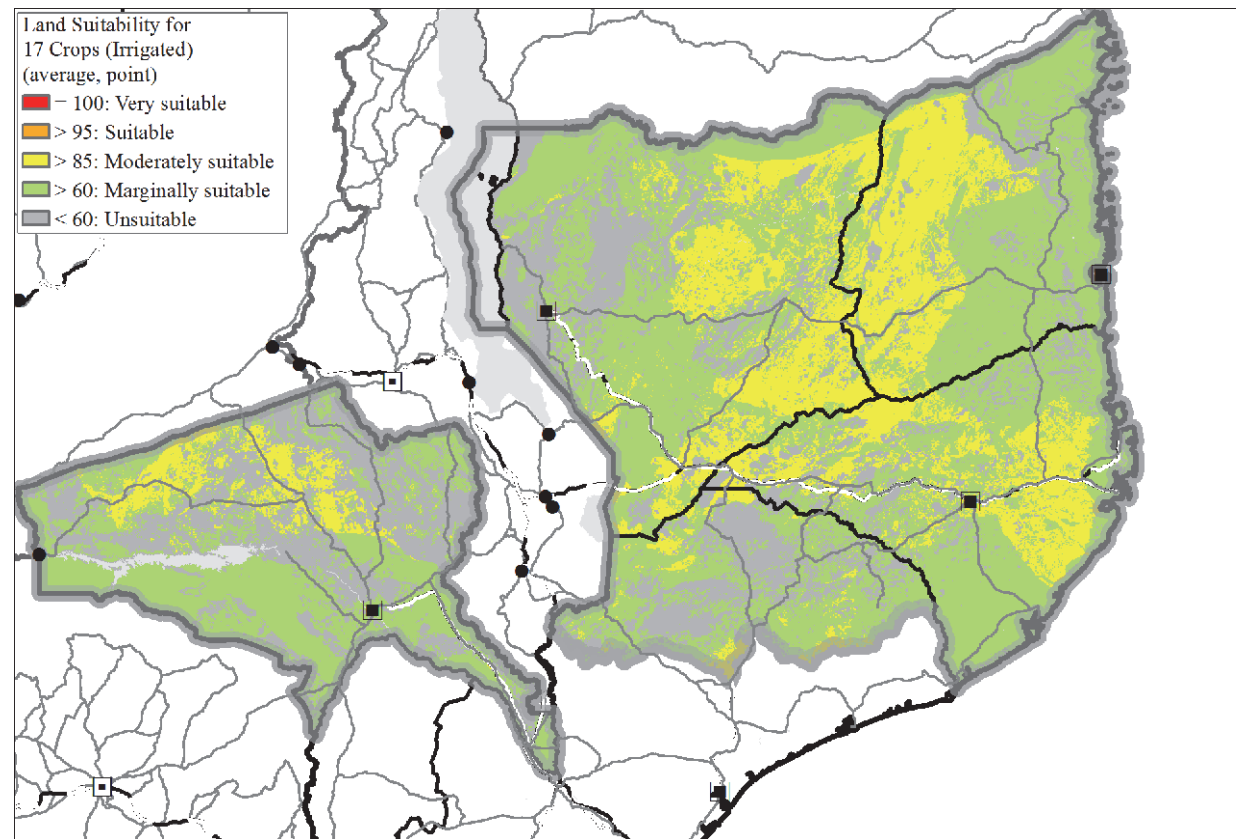
**Evaluation of Land Suitability**

- Agricultural potential is estimated at every 90 m mesh, according to the evaluation criteria specified by IIAM and FAO.
- The maximum score among 17 crops is chosen as the agriculture potential for respective mesh.

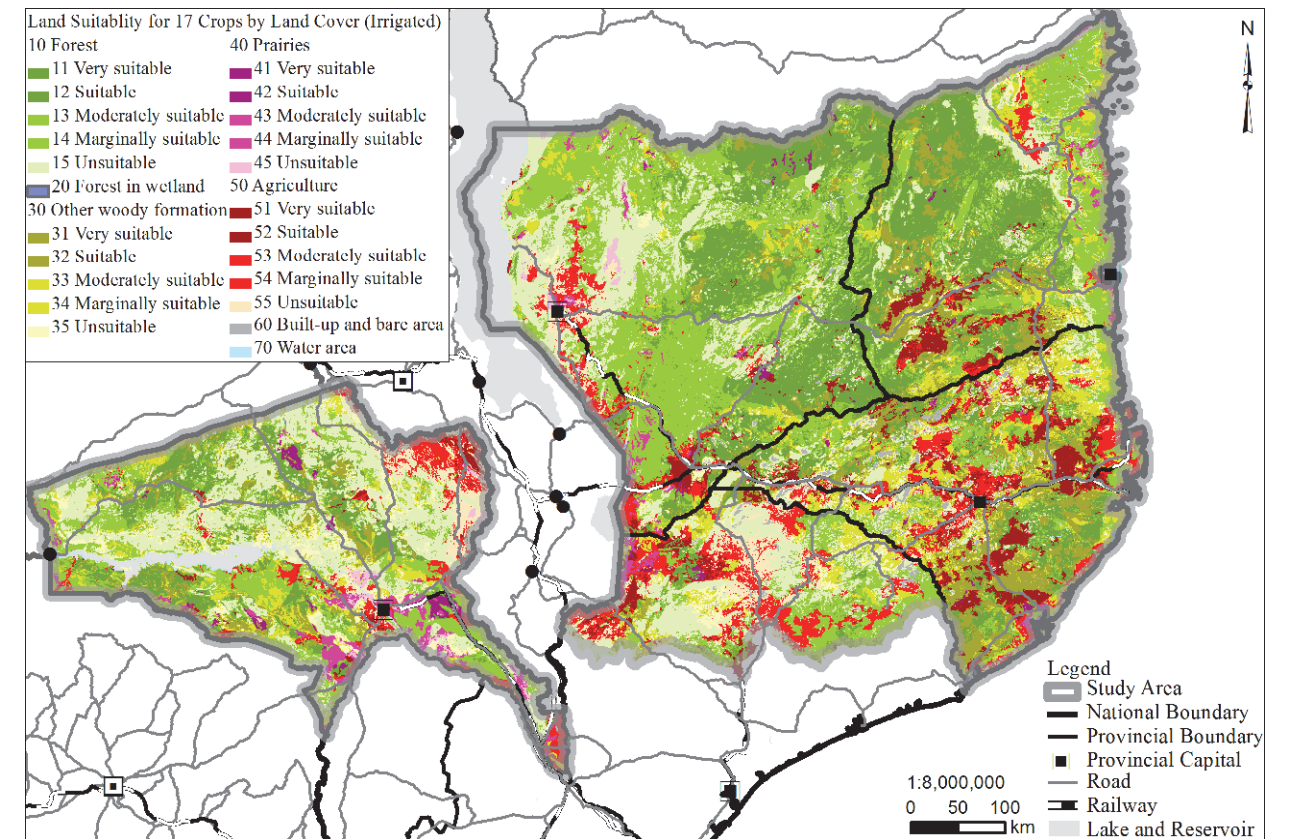


### C. Analysis Map / C-1 Agricultural Potentials [Potentials]

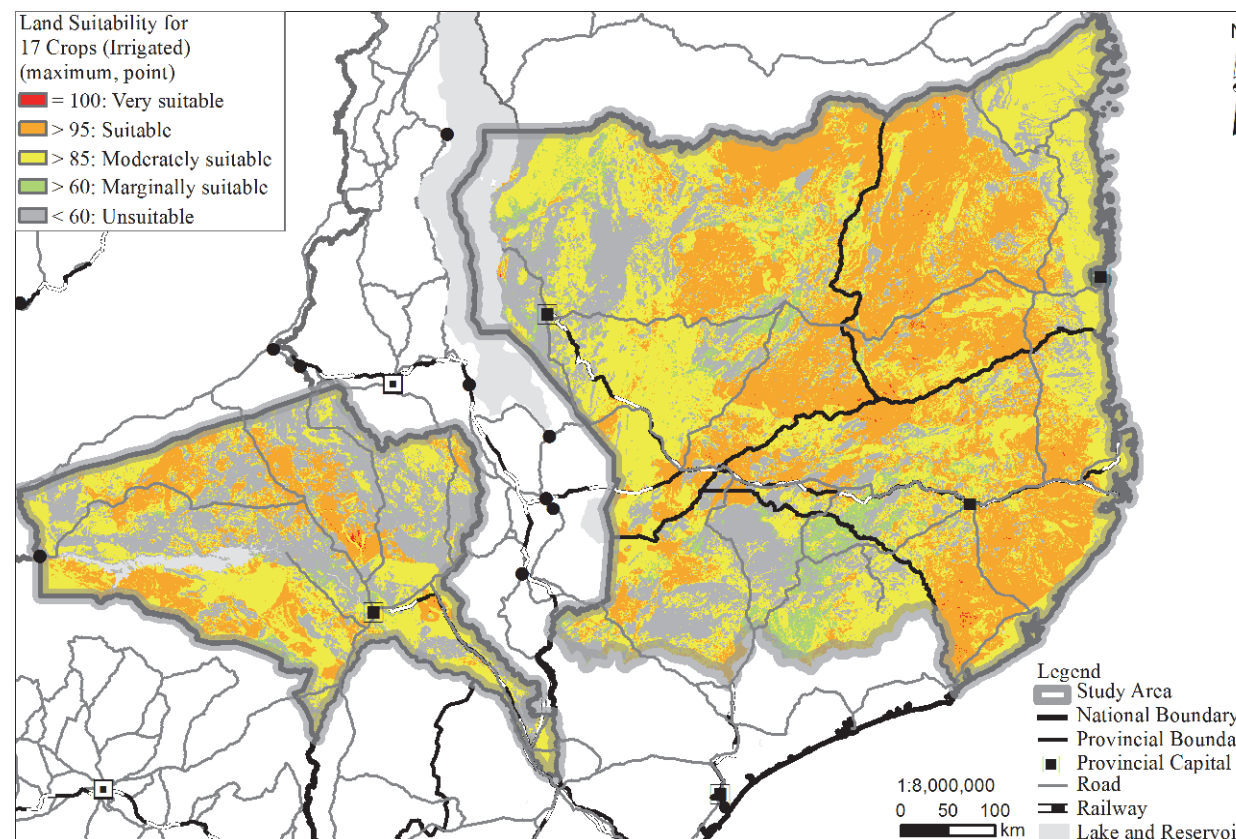
[C-1-12] Land Suitability for 17 Crops (Average Score) <Irrigation>



[C-1-14] Land Suitability for 17 Crops by Land Cover <Irrigation>



[C-1-13] Land Suitability for 17 Crops (Maximum Score) <Irrigation>

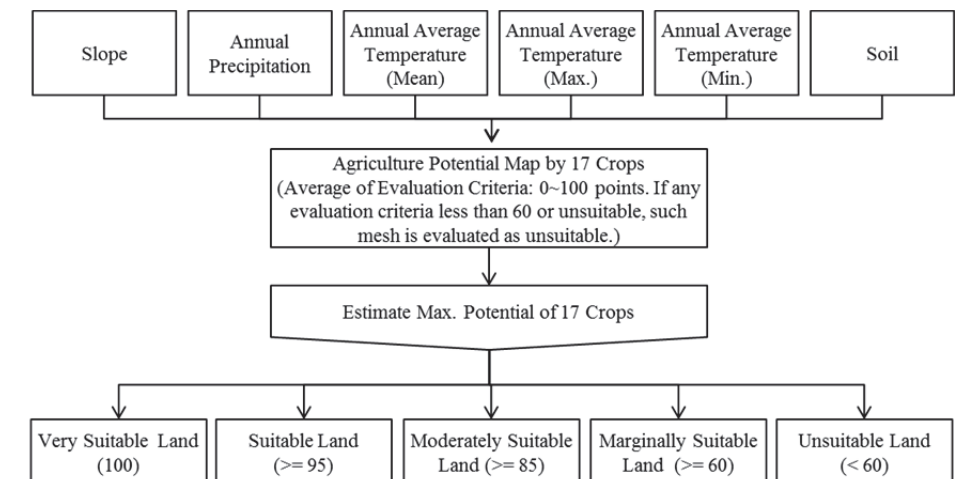


**17 Crops:**

Cabbage, Cashew Nut, Cassava, Cotton, Cowpea, Ground Nut, Haricot Bean, Maize, Onion, Potato, Rice, Sorghum, Soybean, Sugarcane, Sun Flower, Sweet Potato, Tobacco

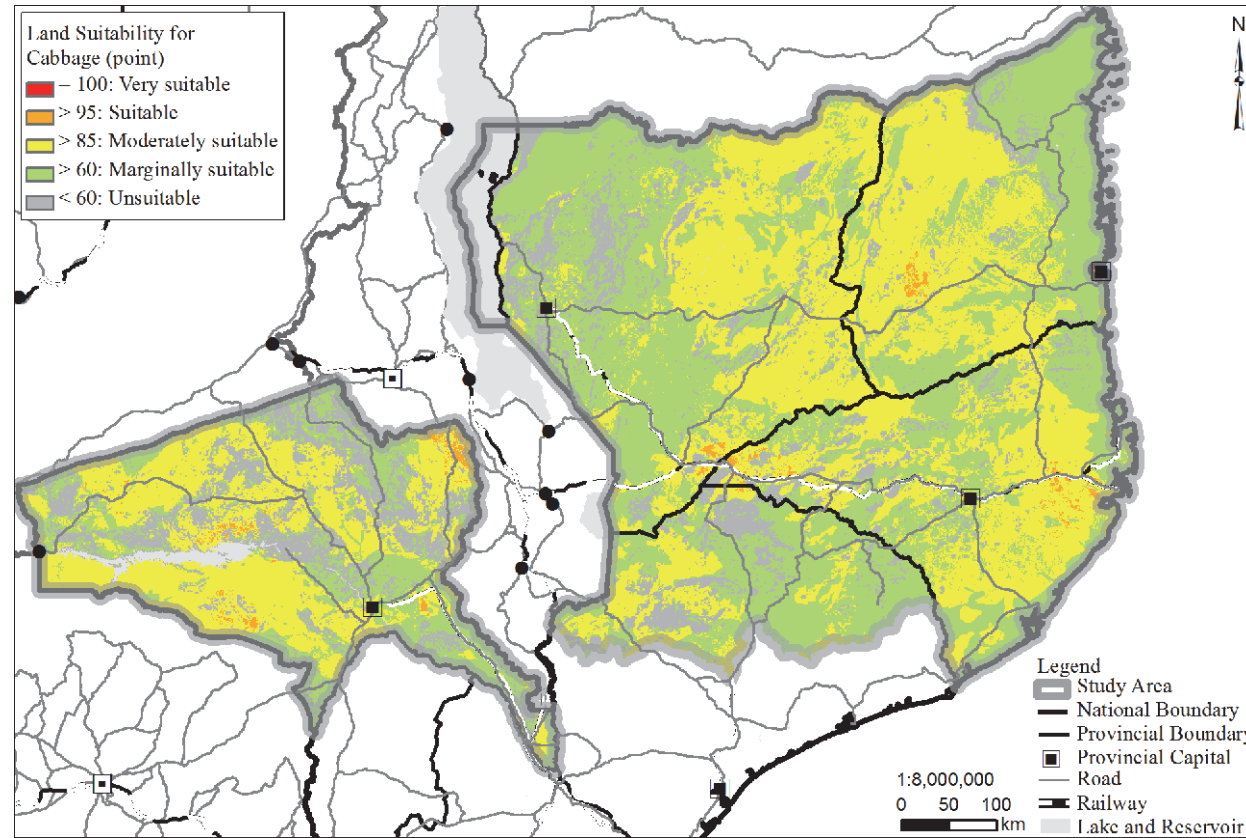
**Evaluation of Land Suitability for Irrigation**

- Agricultural potential is estimated at every 90 m mesh, according to the evaluation criteria specified by IIAM and FAO.
- The maximum score among 17 crops is chosen as the agriculture potential for respective mesh.

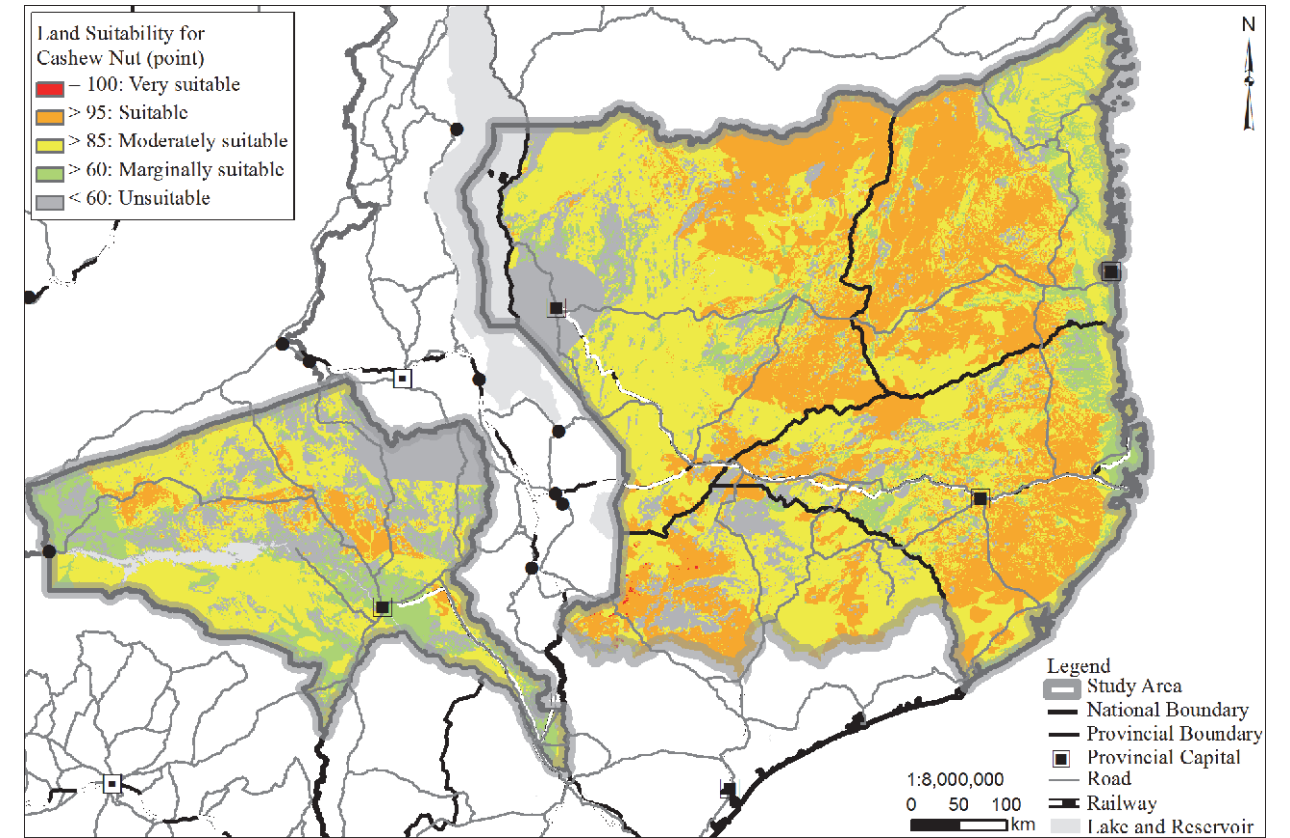


### C. Analysis Map / C-1 Agricultural Potentials [Potentials]

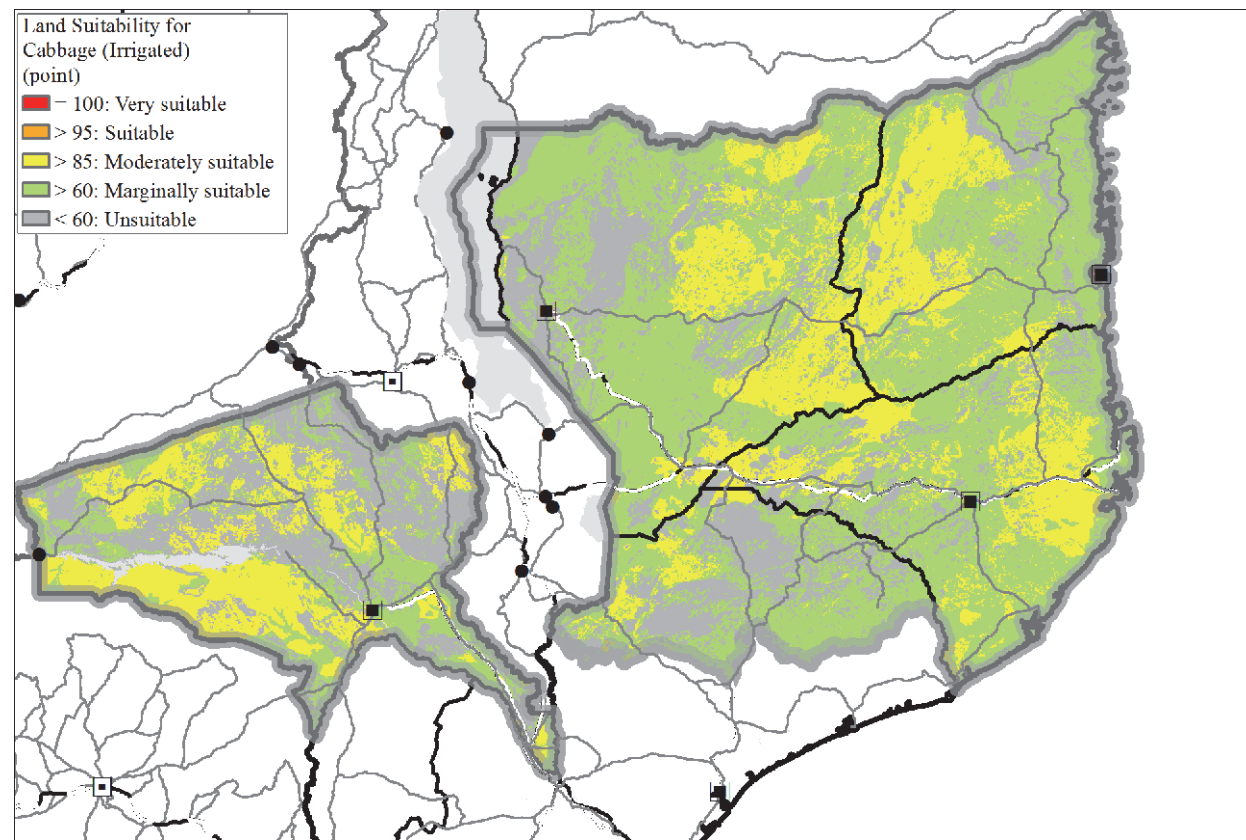
[C-1-15] Land Suitability (1.Cabbage)



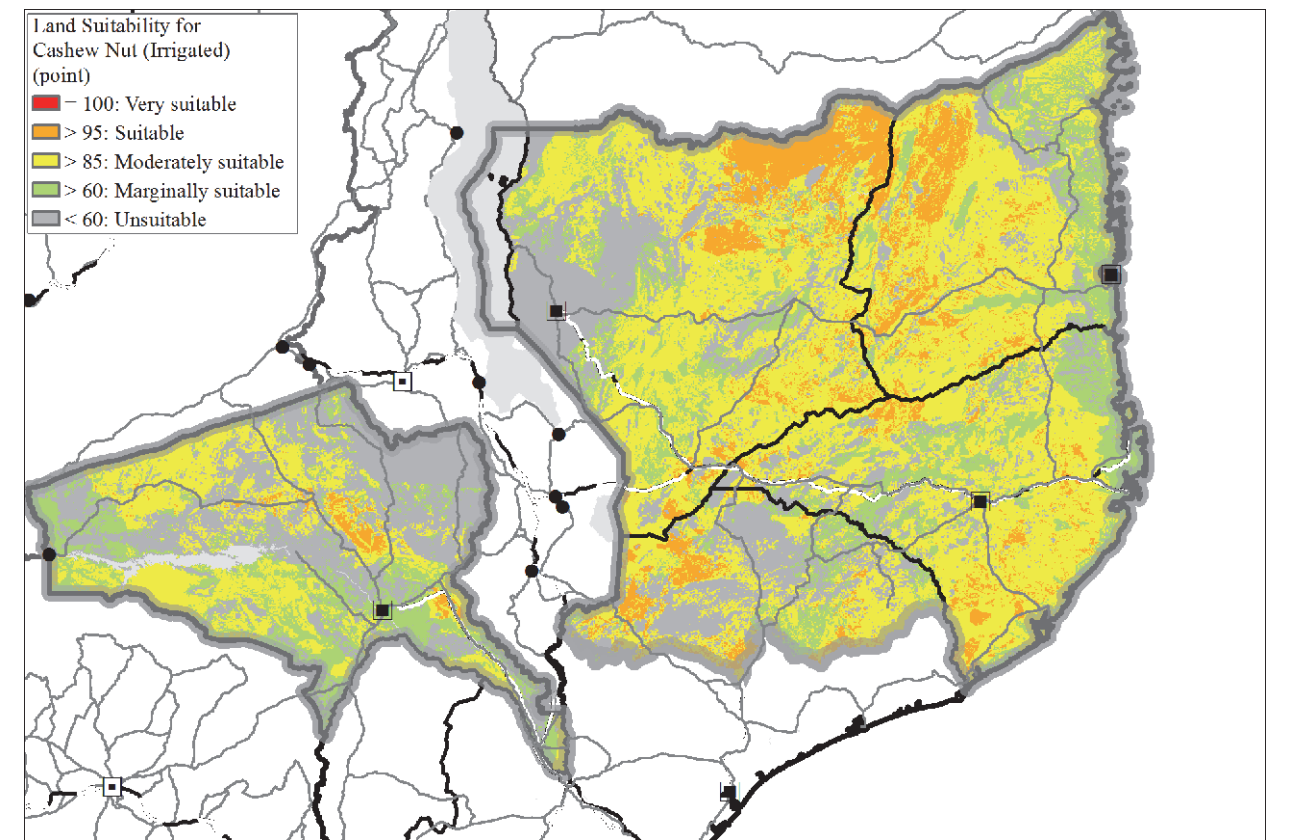
[C-1-17] Land Suitability (2.Cashew Nut)



[C-1-16] Land Suitability (1.Cabbage) <Irrigation>



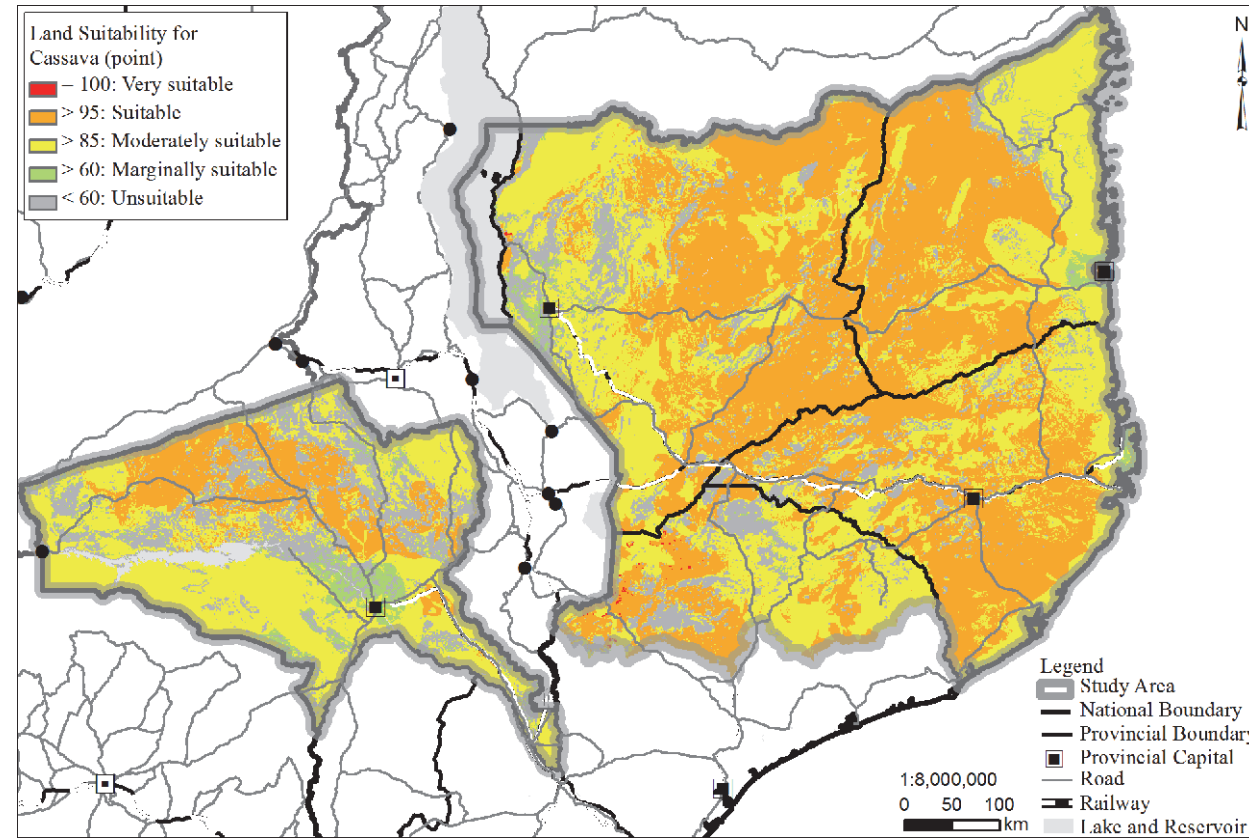
[C-1-18] Land Suitability (2.Cashew Nut) <Irrigation>



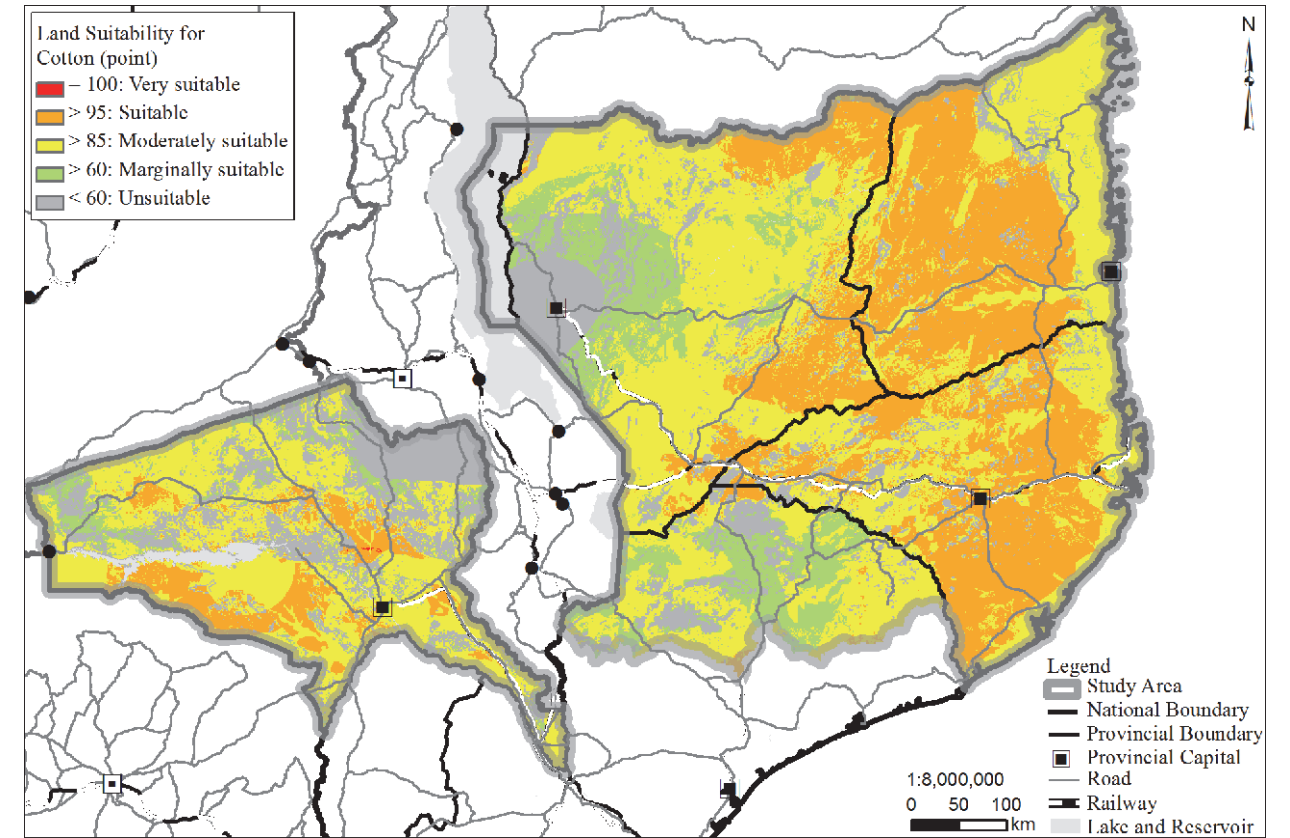


### C. Analysis Map / C-1 Agricultural Potentials [Potentials]

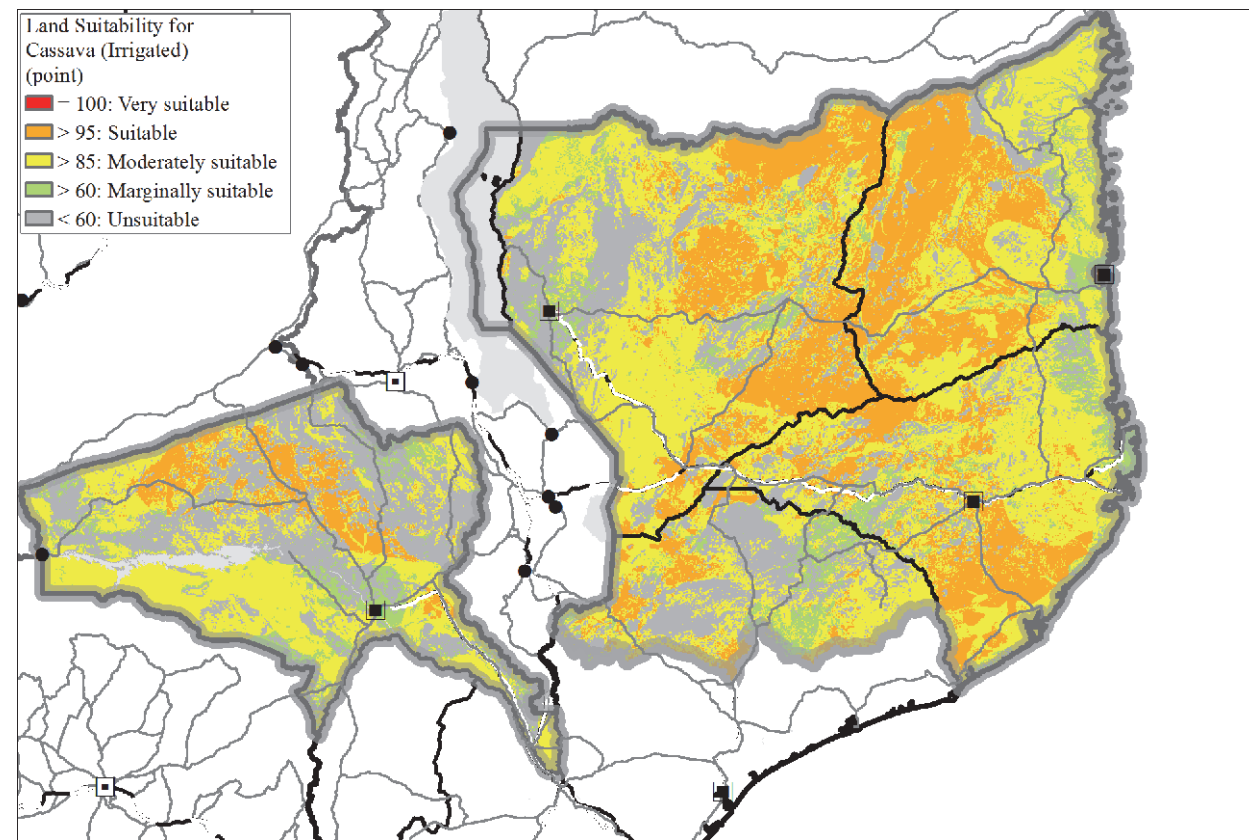
[C-1-19] Land Suitability (3.Cassava)



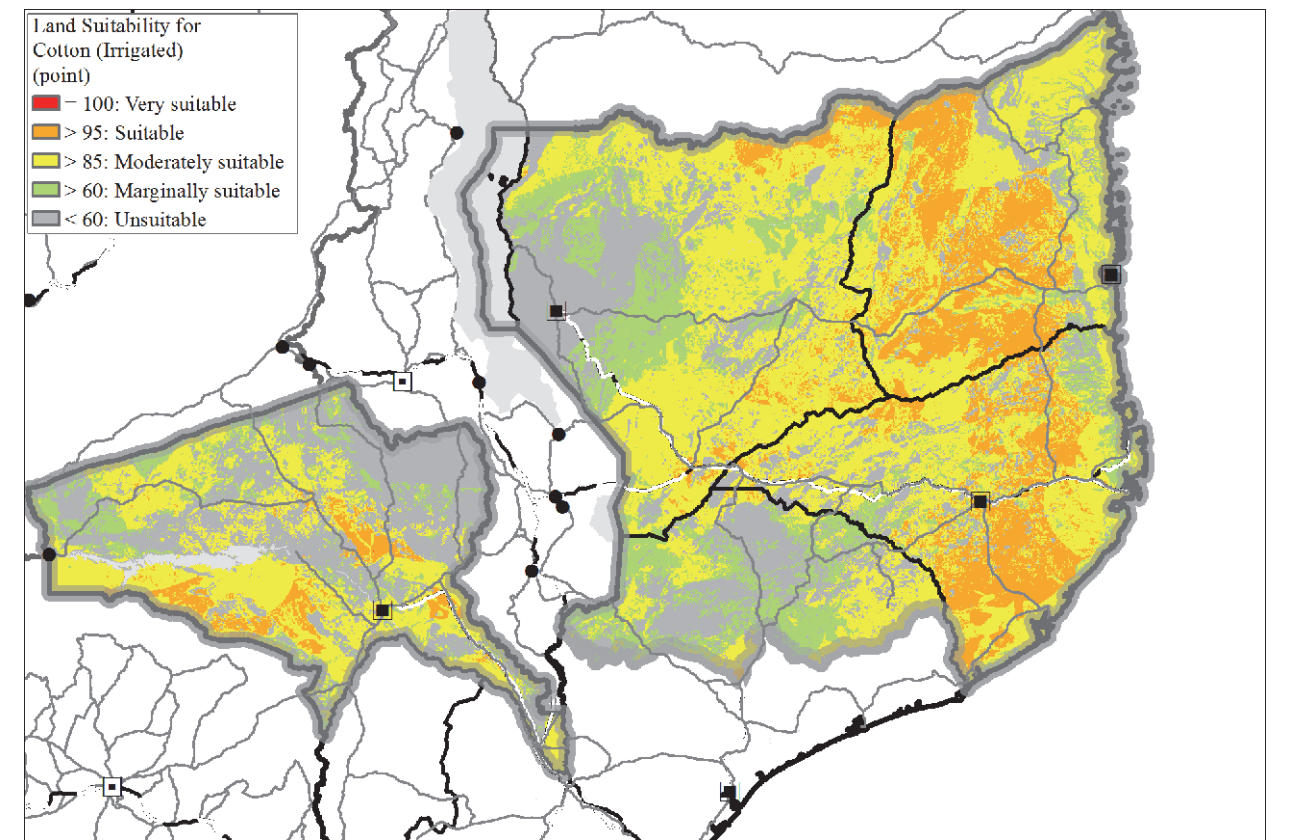
[C-1-21] Land Suitability (4. Cotton)



[C-1-20] Land Suitability (3.Cassava) <Irrigation>

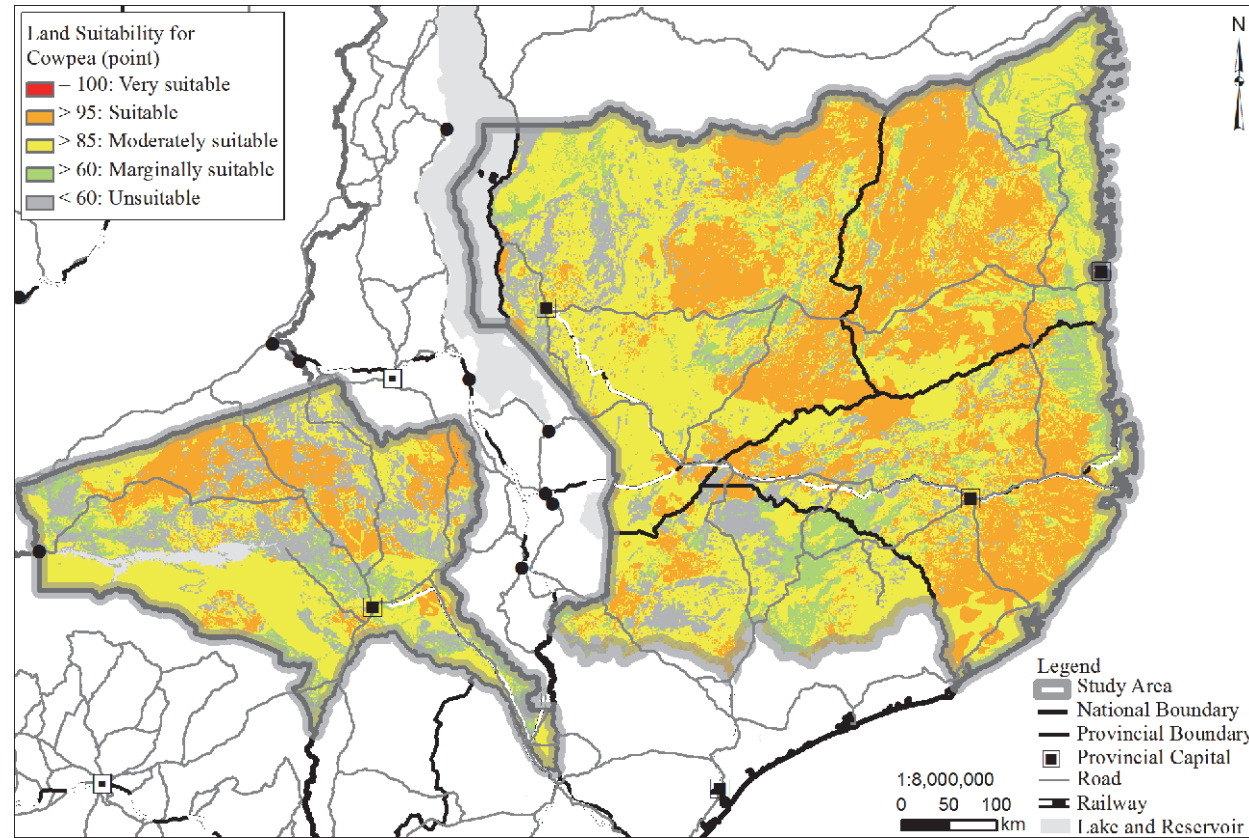


[C-1-22] Land Suitability (4. Cotton) <Irrigation>

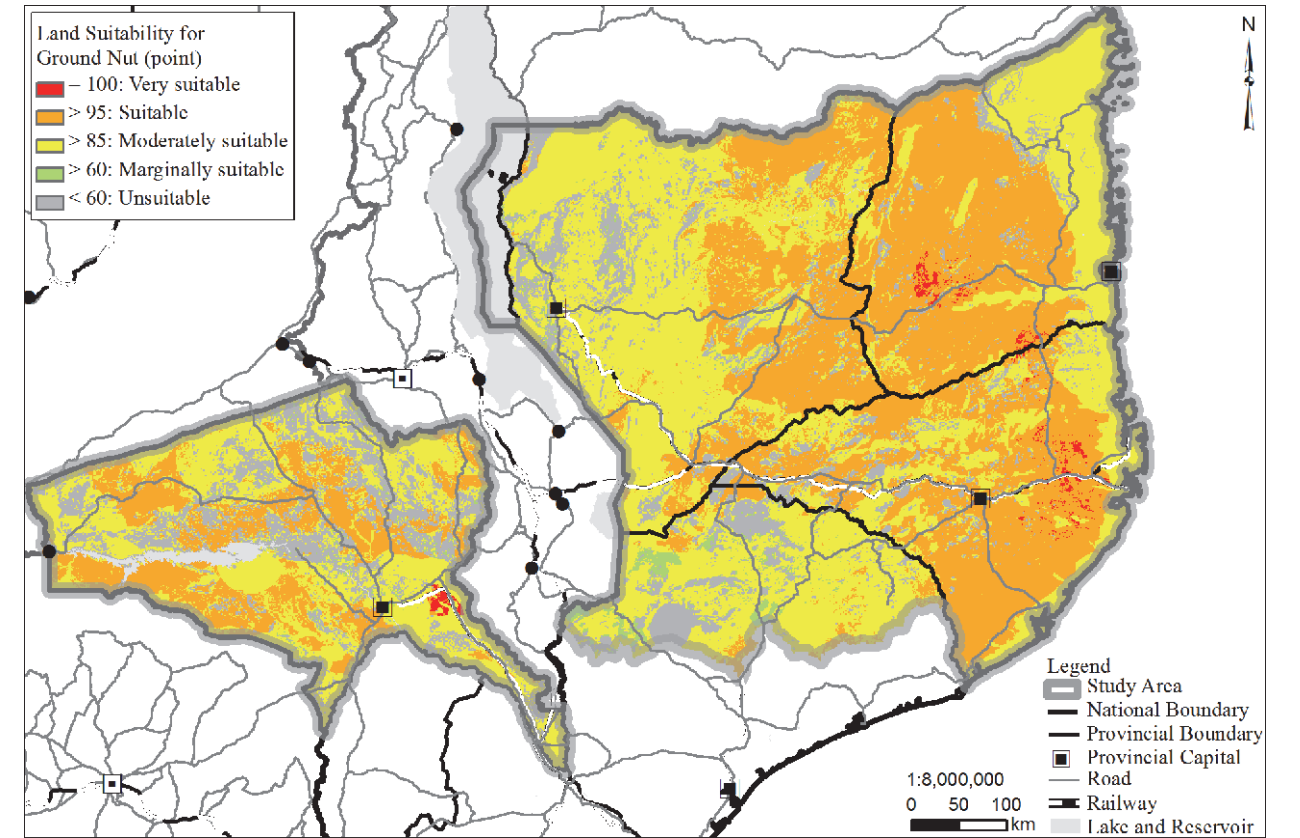


### C. Analysis Map / C-1 Agricultural Potentials [Potentials]

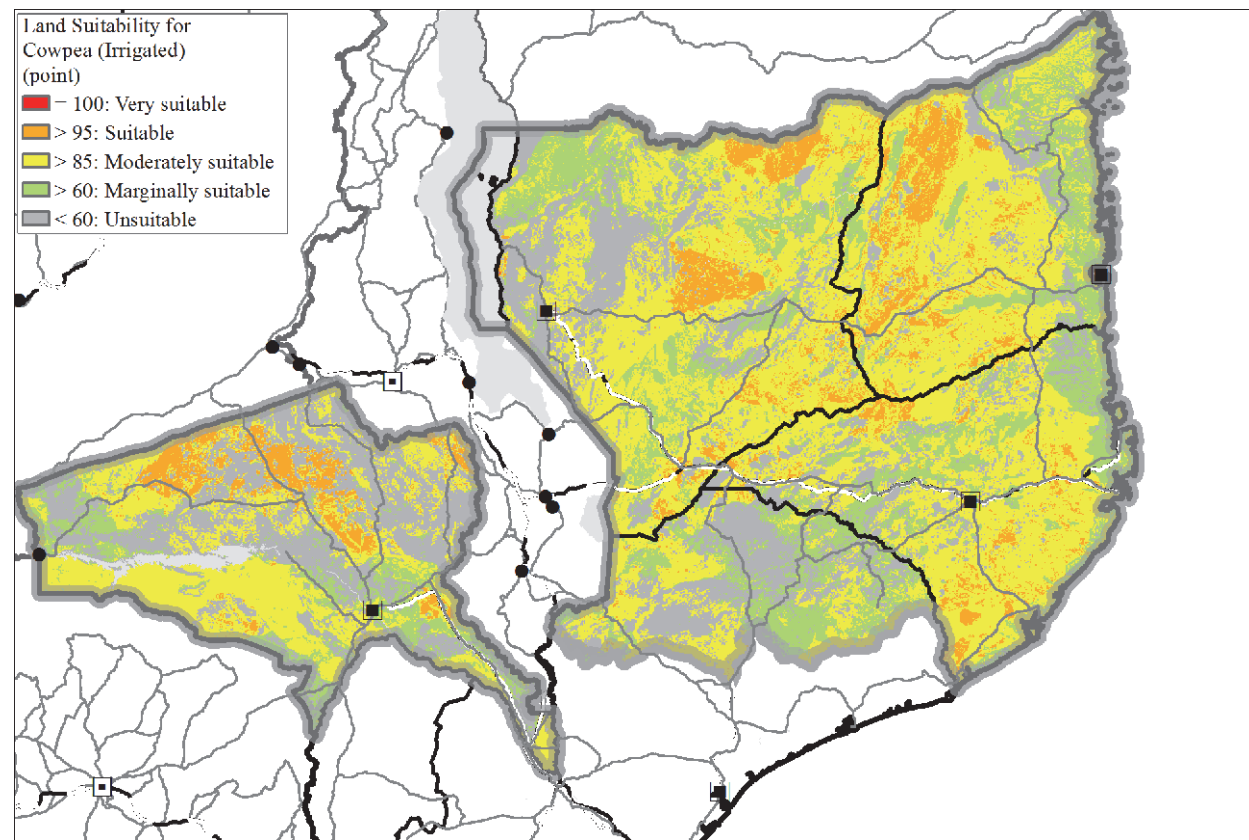
[C-1-23] Land Suitability (5.Cowpa)



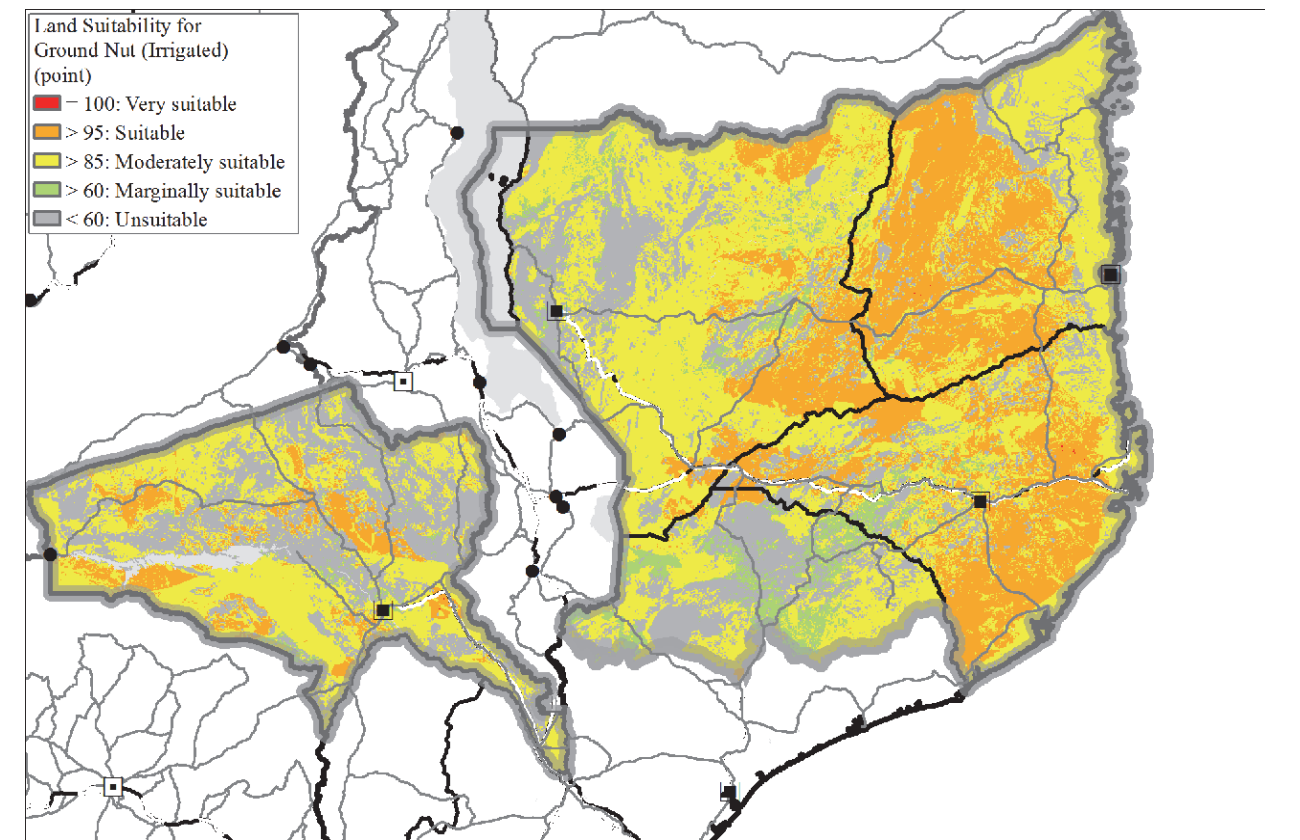
[C-1-25] Land Suitability (6.Ground Nut)



[C-1-24] Land Suitability (5.Cowpa) <Irrigation>

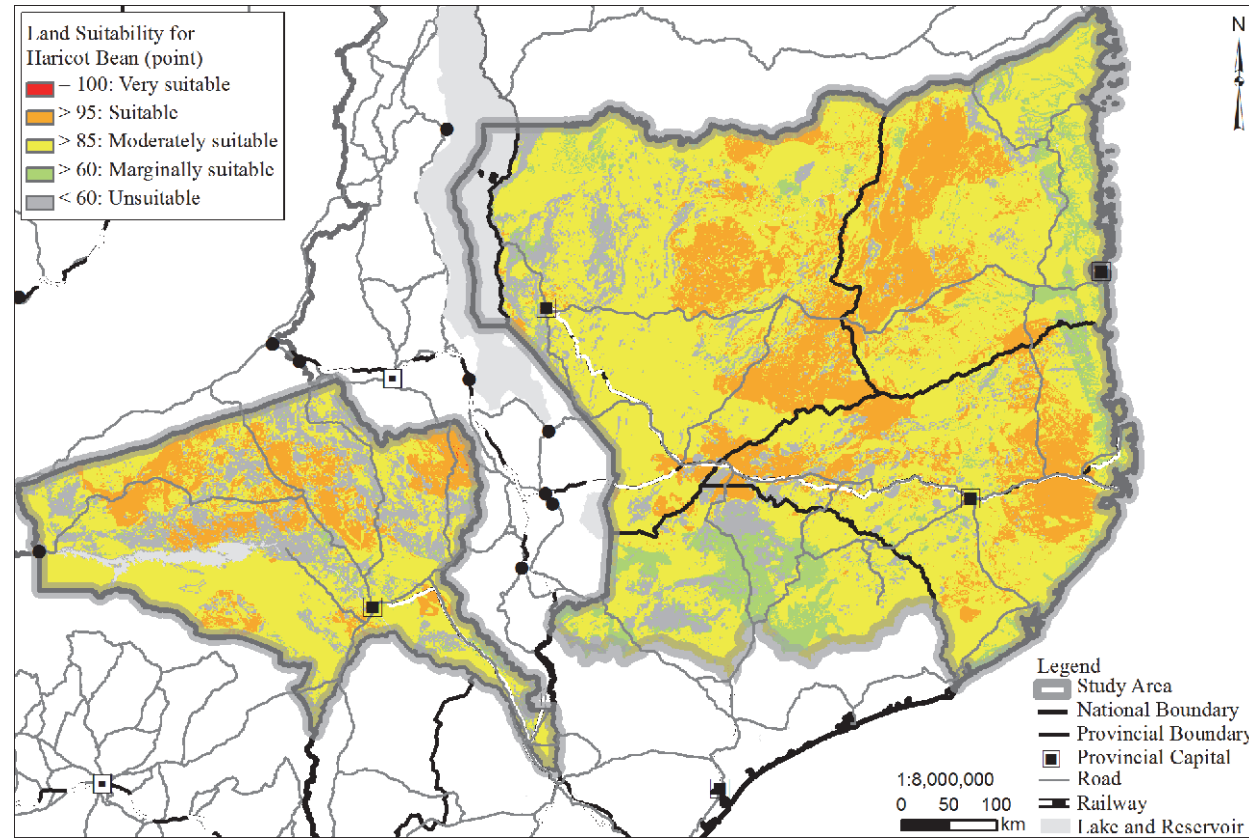


[C-1-26] Land Suitability (6.Ground Nut) <Irrigation>

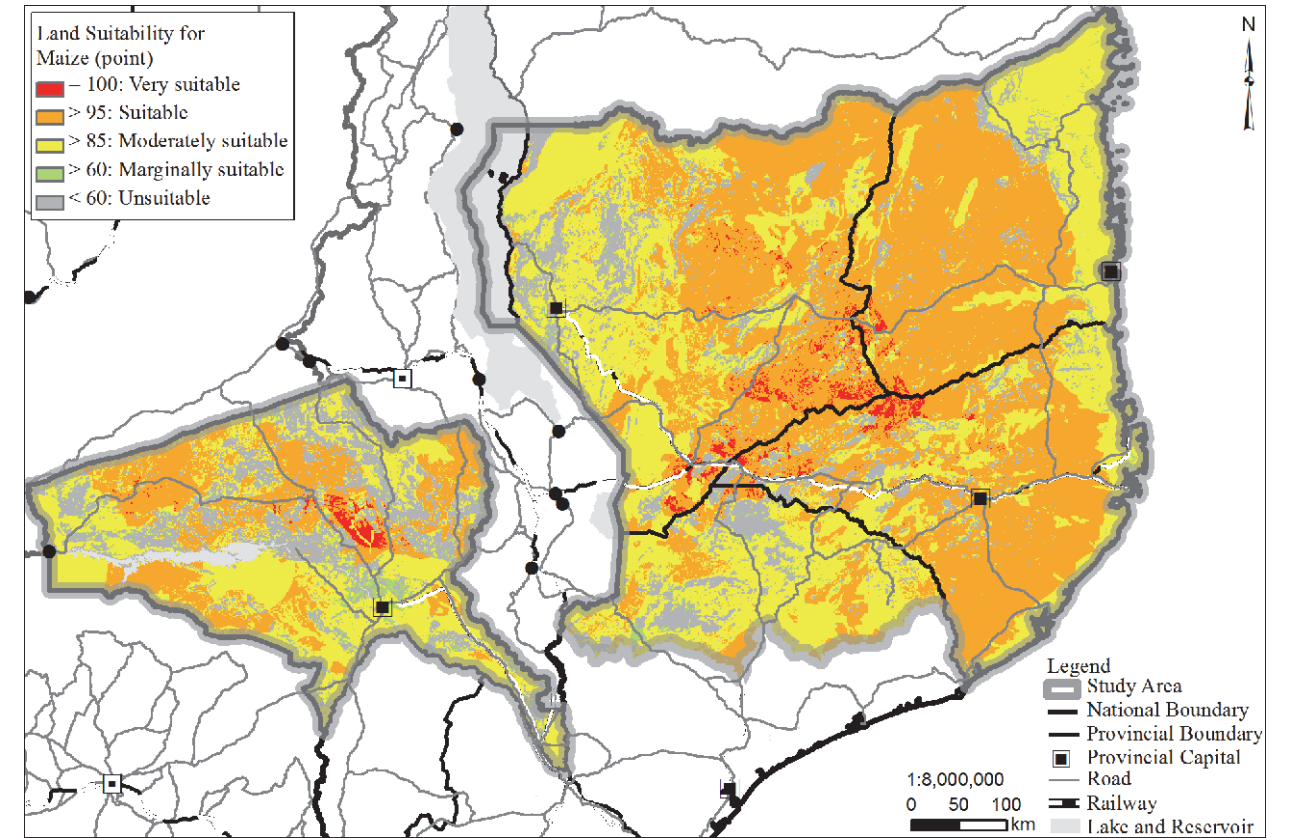


### C. Analysis Map / C-1 Agricultural Potentials [Potentials]

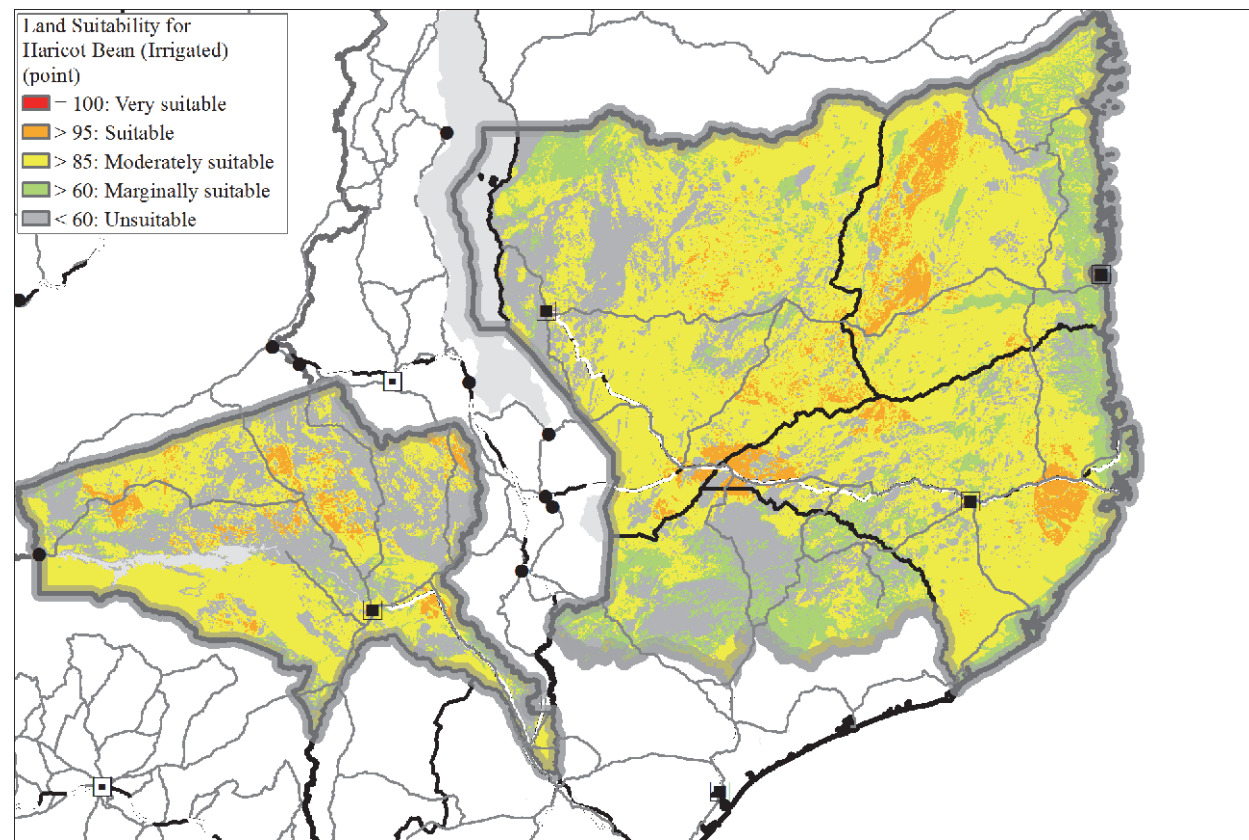
[C-1-27] Land Suitability (7. Haricot Bean)



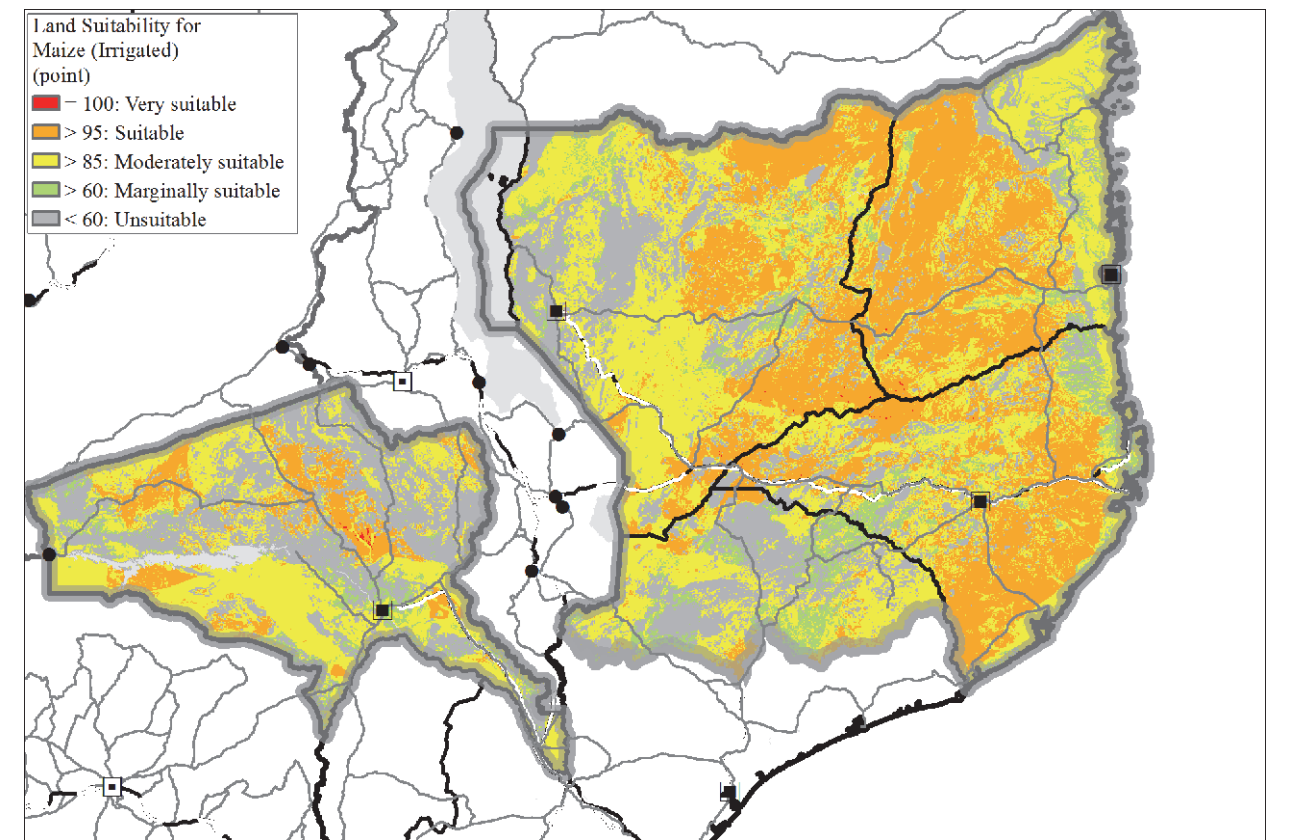
[C-1-29] Land Suitability (8. Maize)



[C-1-28] Land Suitability (7. Haricot Bean) <Irrigation>

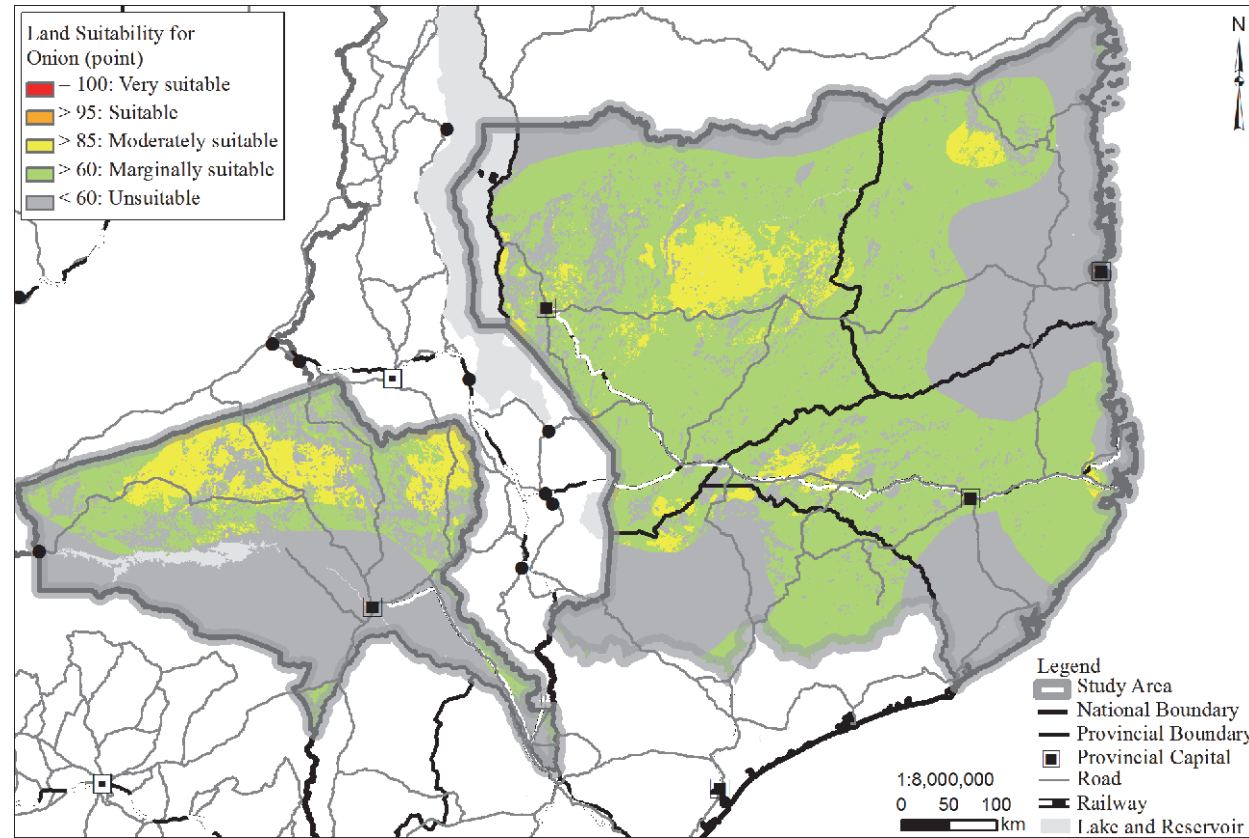


[C-1-30] Land Suitability (8. Maize) <Irrigation>

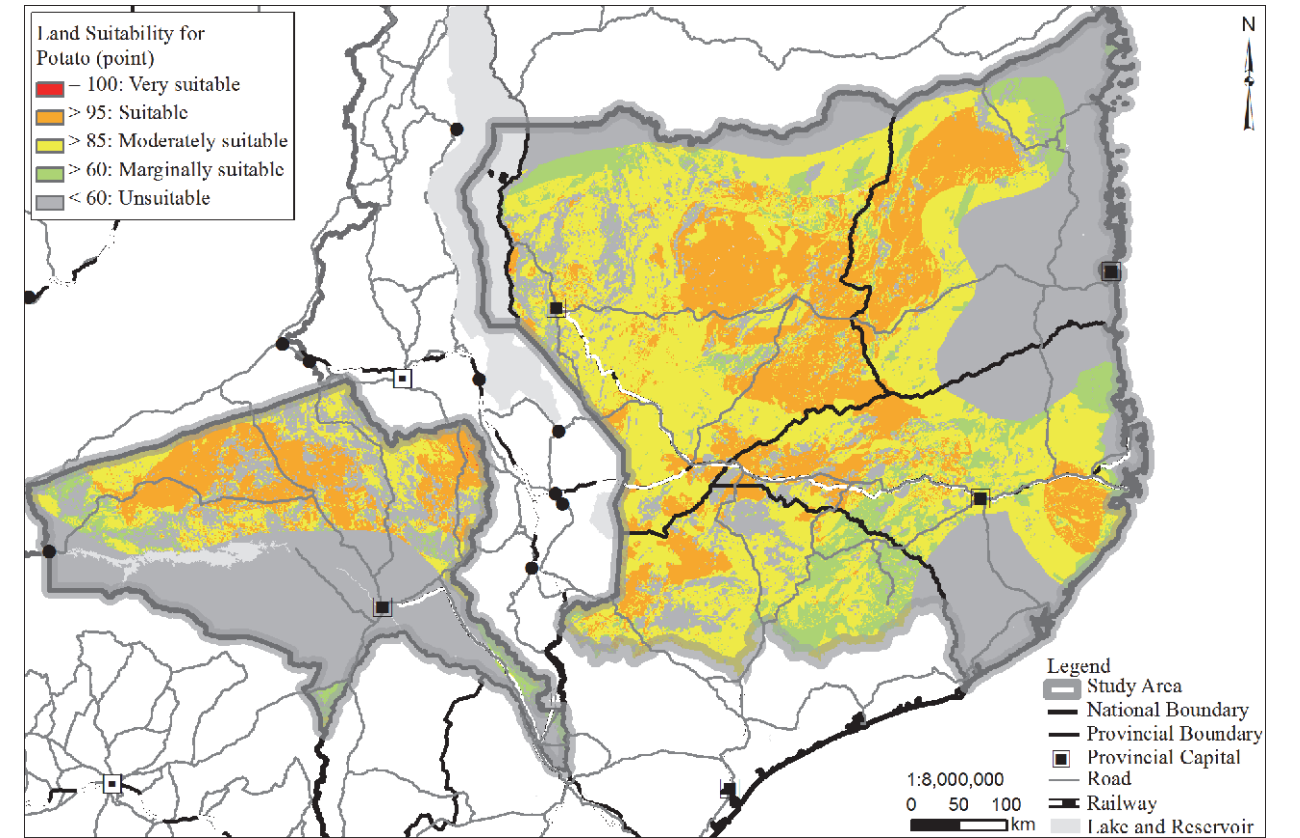


### C. Analysis Map / C-1 Agricultural Potentials [Potentials]

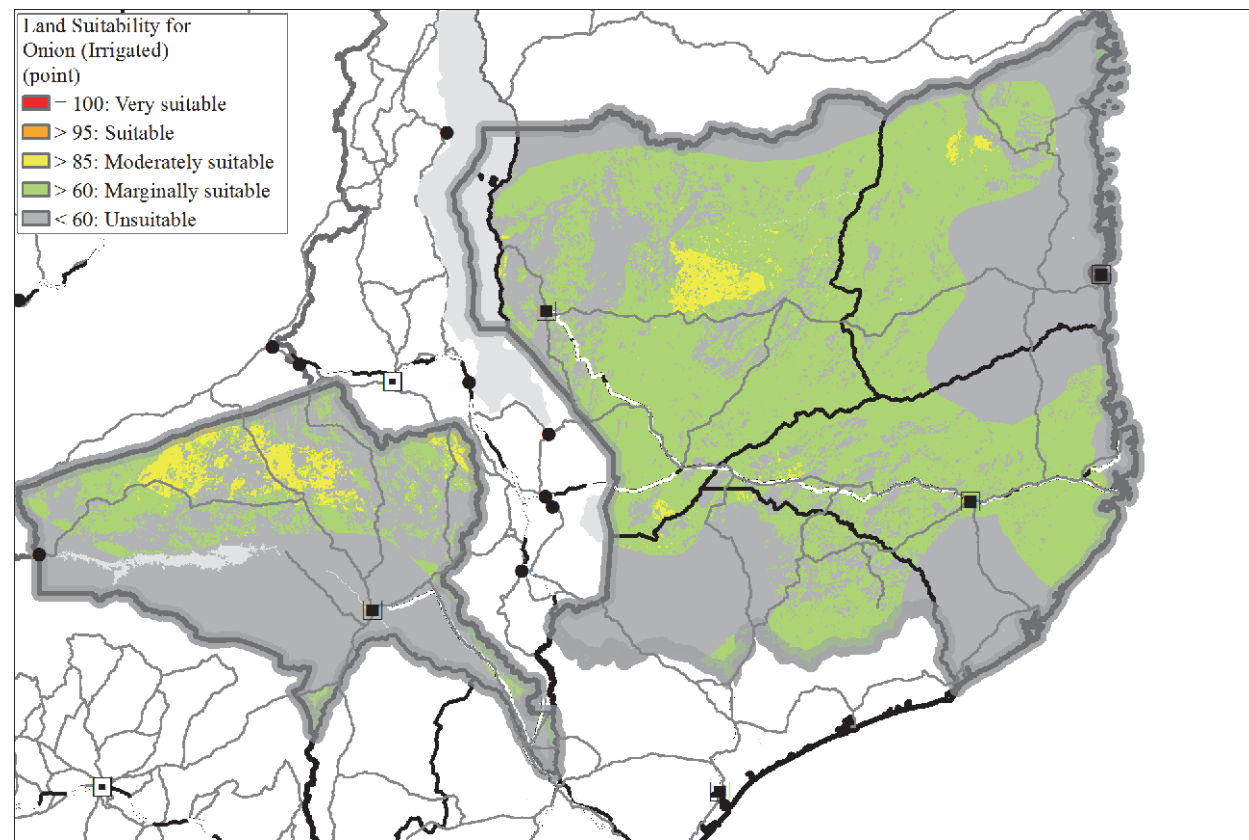
[C-1-31] Land Suitability (9. Onion)



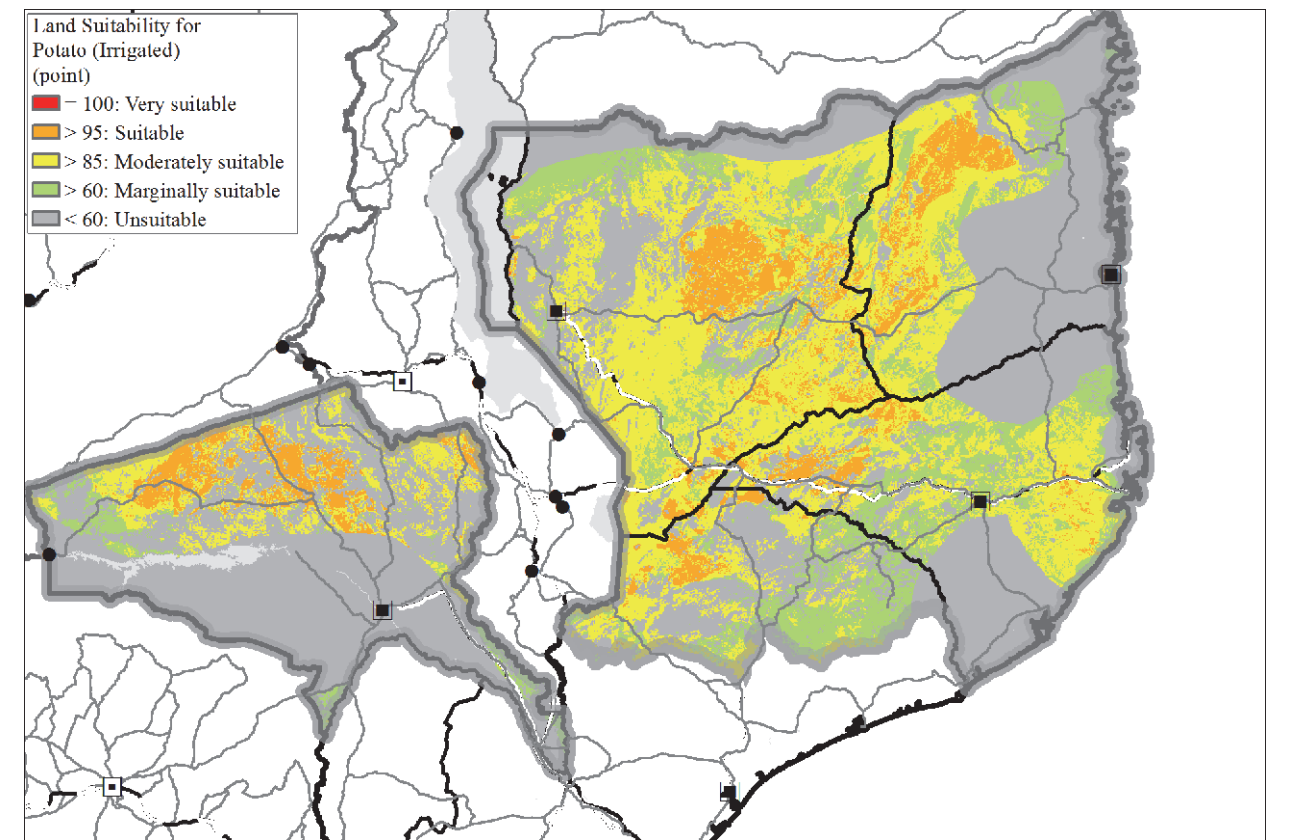
[C-1-33] Land Suitability (10. Potato)



[C-1-32] Land Suitability (9. Onion) <Irrigation>

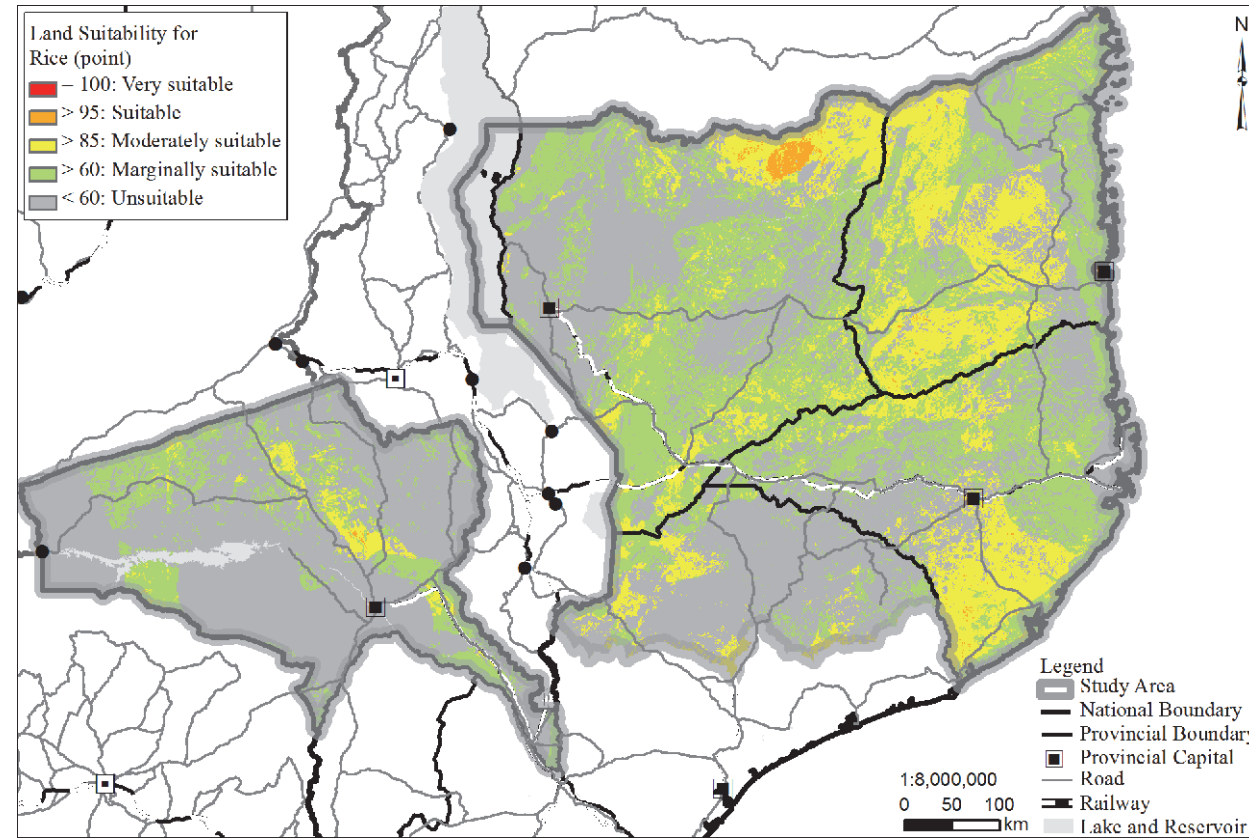


[C-1-34] Land Suitability (10. Potato) <Irrigation>

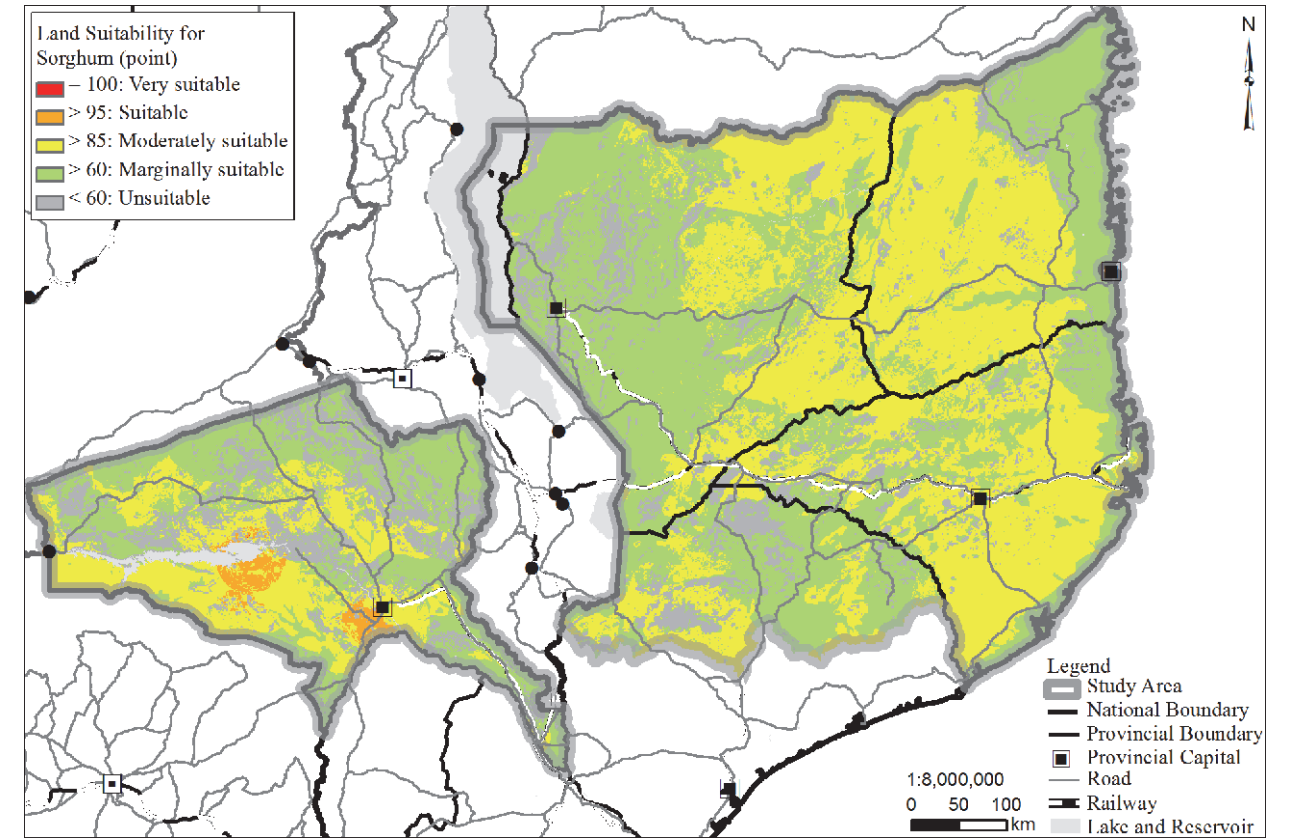


### C. Analysis Map / C-1 Agricultural Potentials [Potentials]

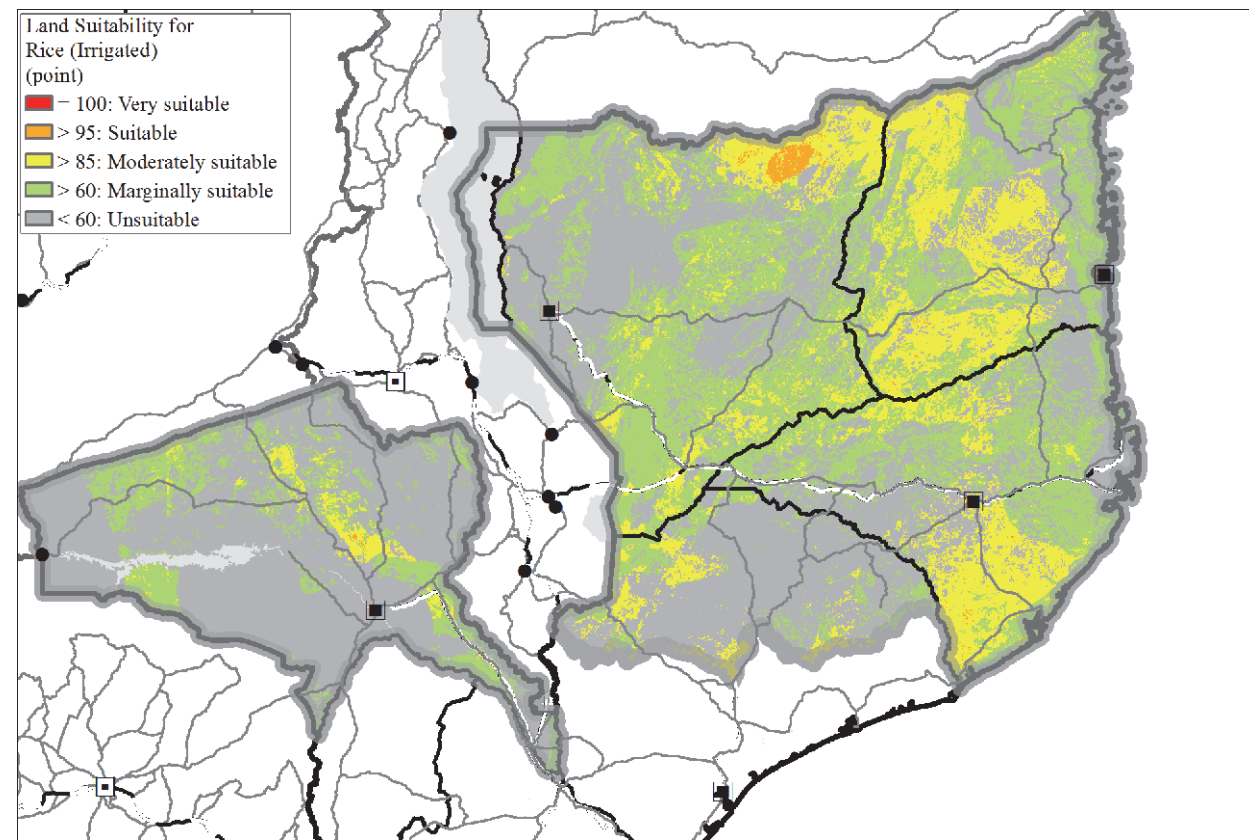
[C-1-35] Land Suitability (11. Rice)



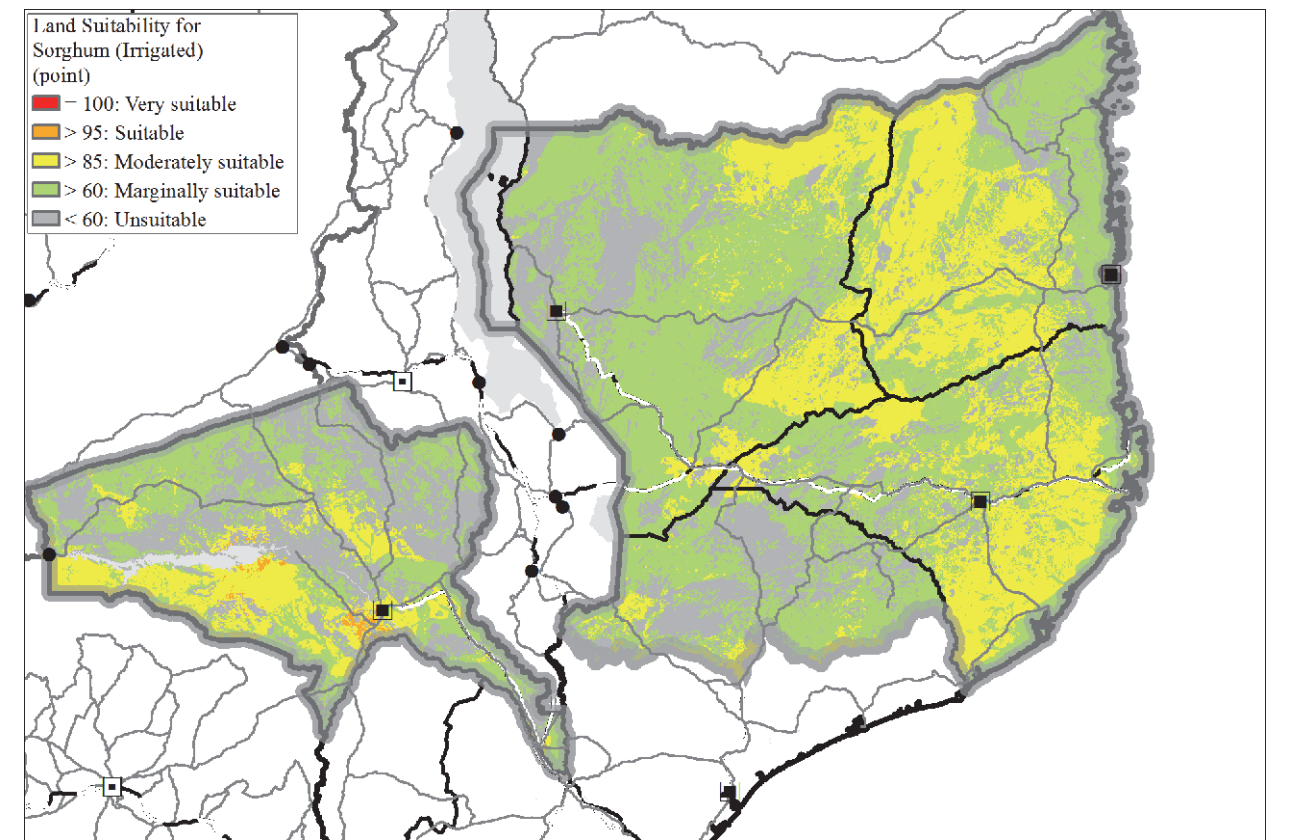
[C-1-37] Land Suitability (12. Sorghum)



[C-1-36] Land Suitability (11. Rice) <Irrigation>

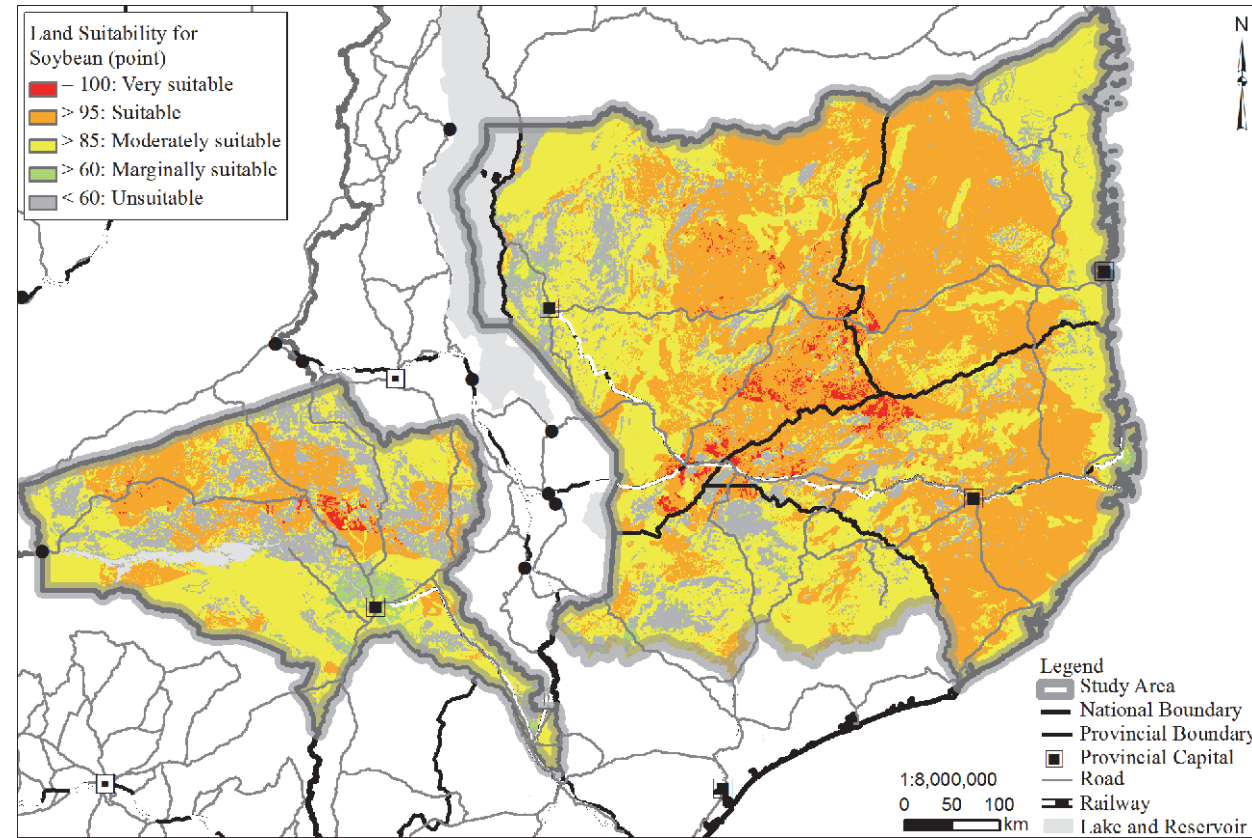


[C-1-38] Land Suitability (12. Sorghum) <Irrigation>

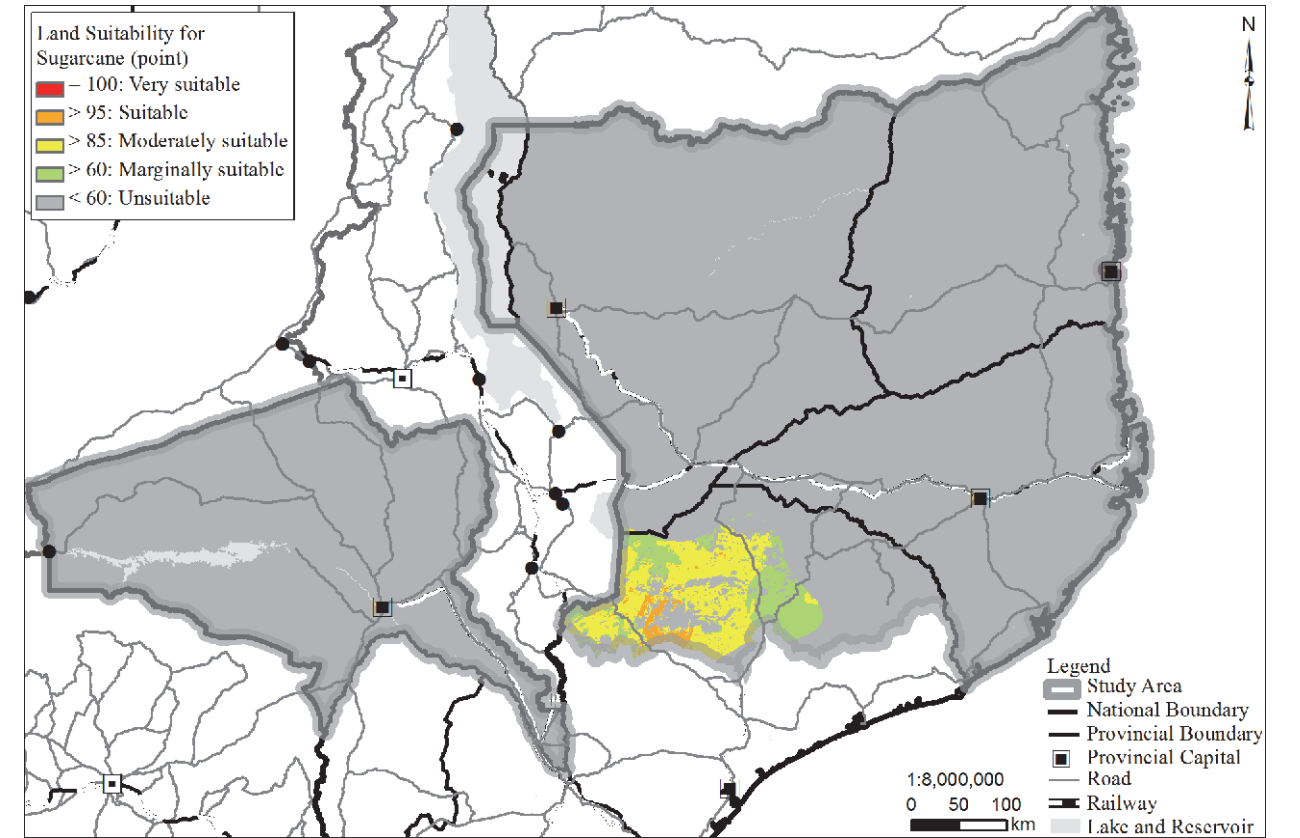


### C. Analysis Map / C-1 Agricultural Potentials [Potentials]

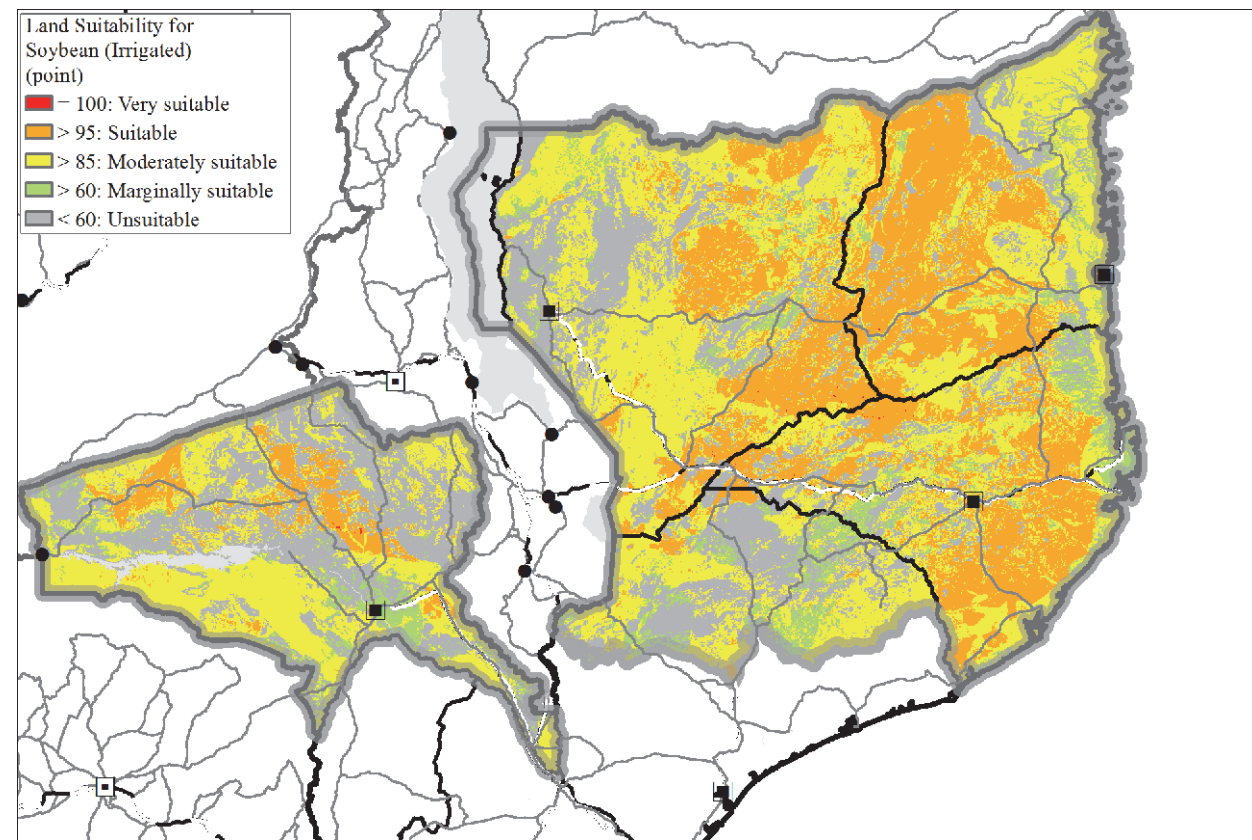
[C-1-39] Land Suitability (13. Soybean)



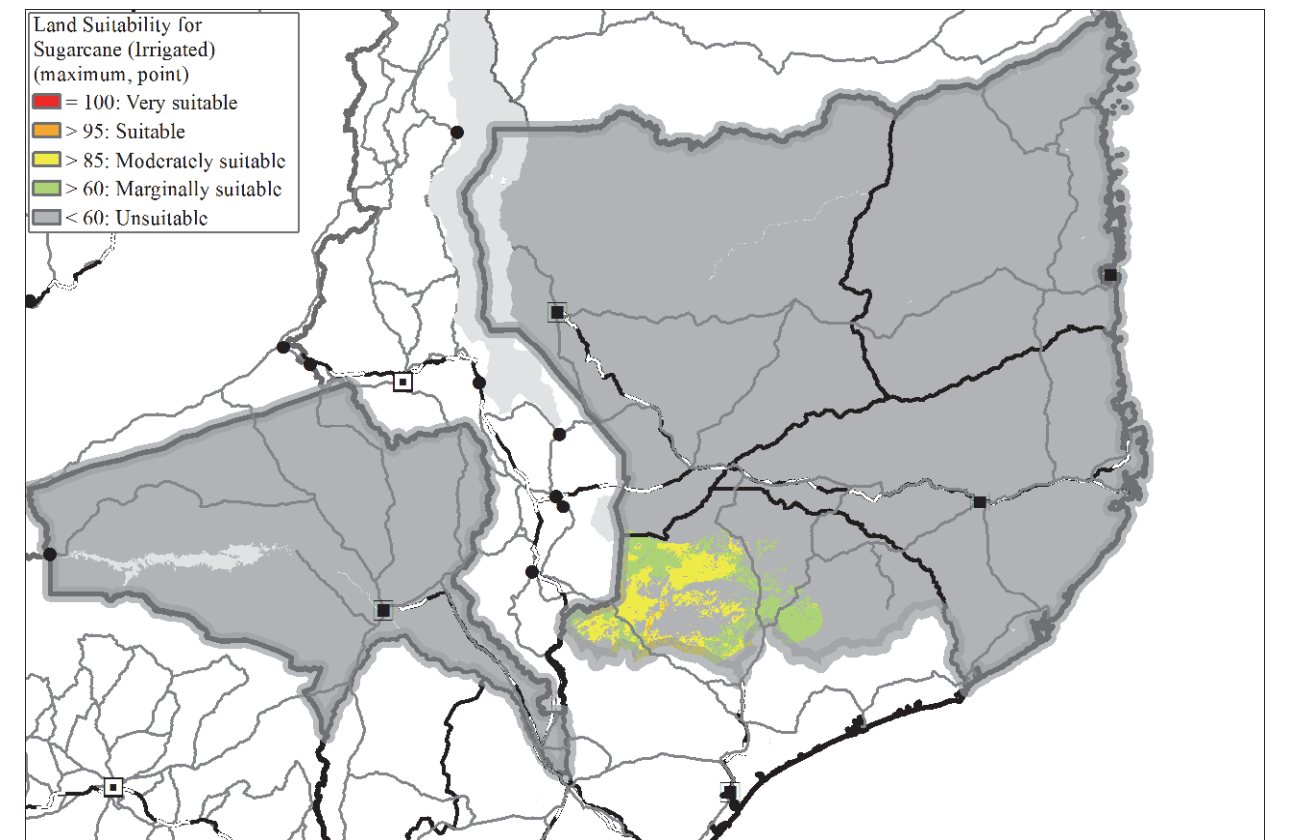
[C-1-41] Land Suitability (14. Sugarcane)



[C-1-40] Land Suitability (13. Soybean) <Irrigation>

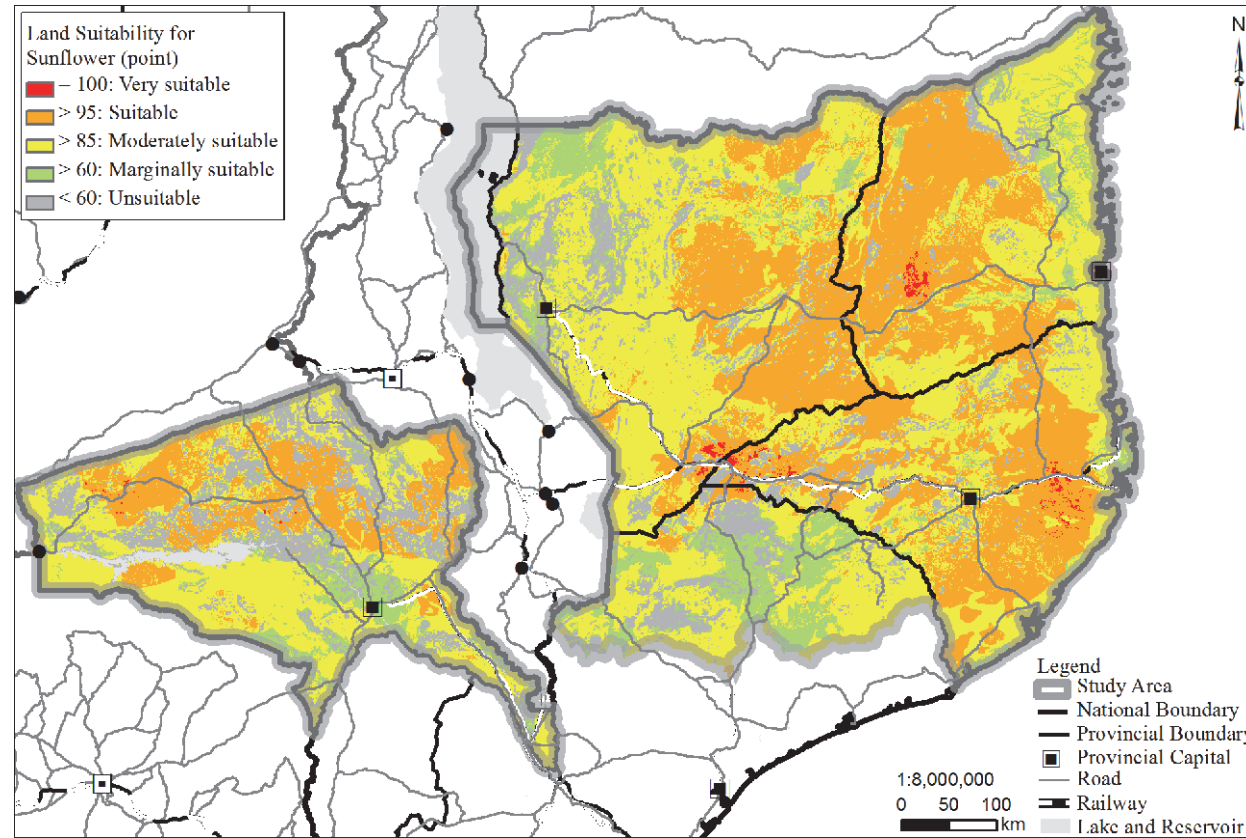


[C-1-42] Land Suitability (14. Sugarcane) <Irrigation>

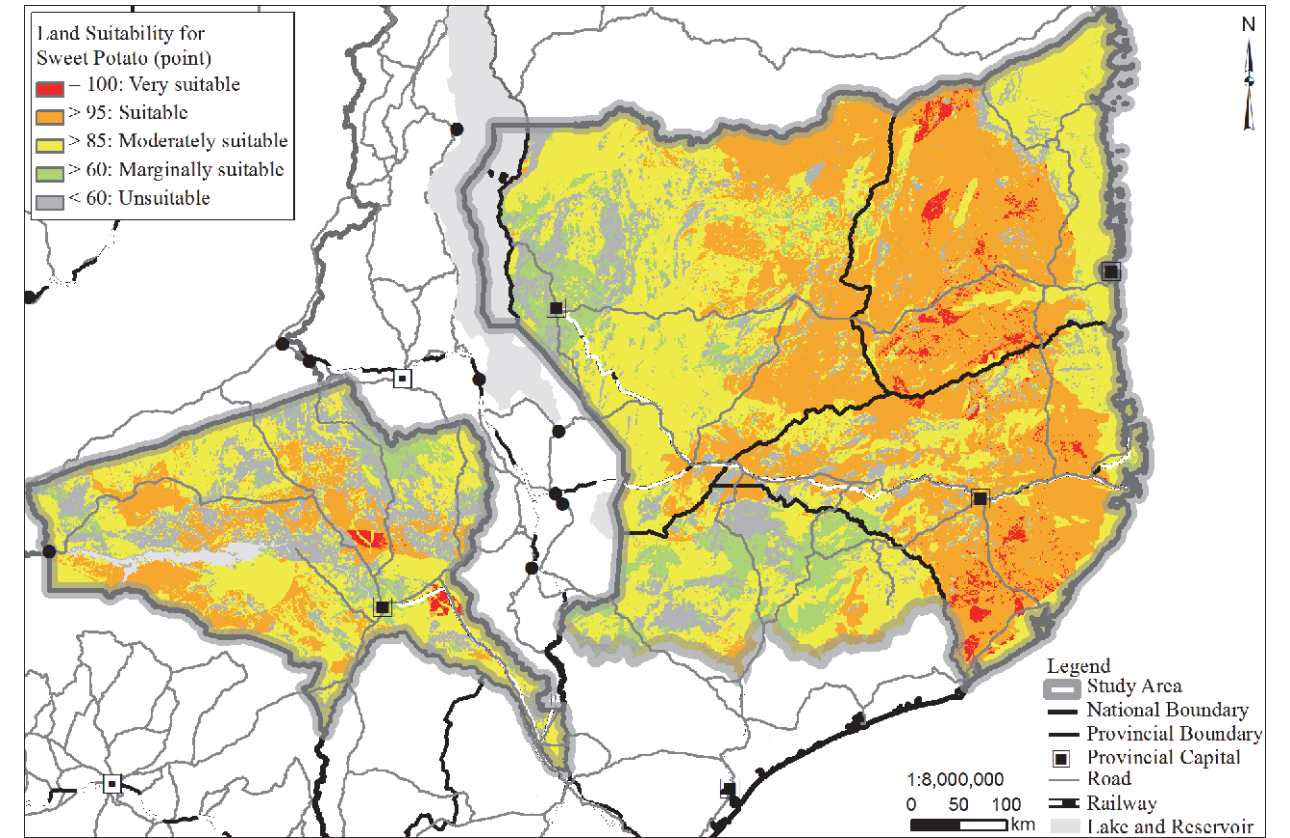


### C. Analysis Map / C-1 Agricultural Potentials [Potentials]

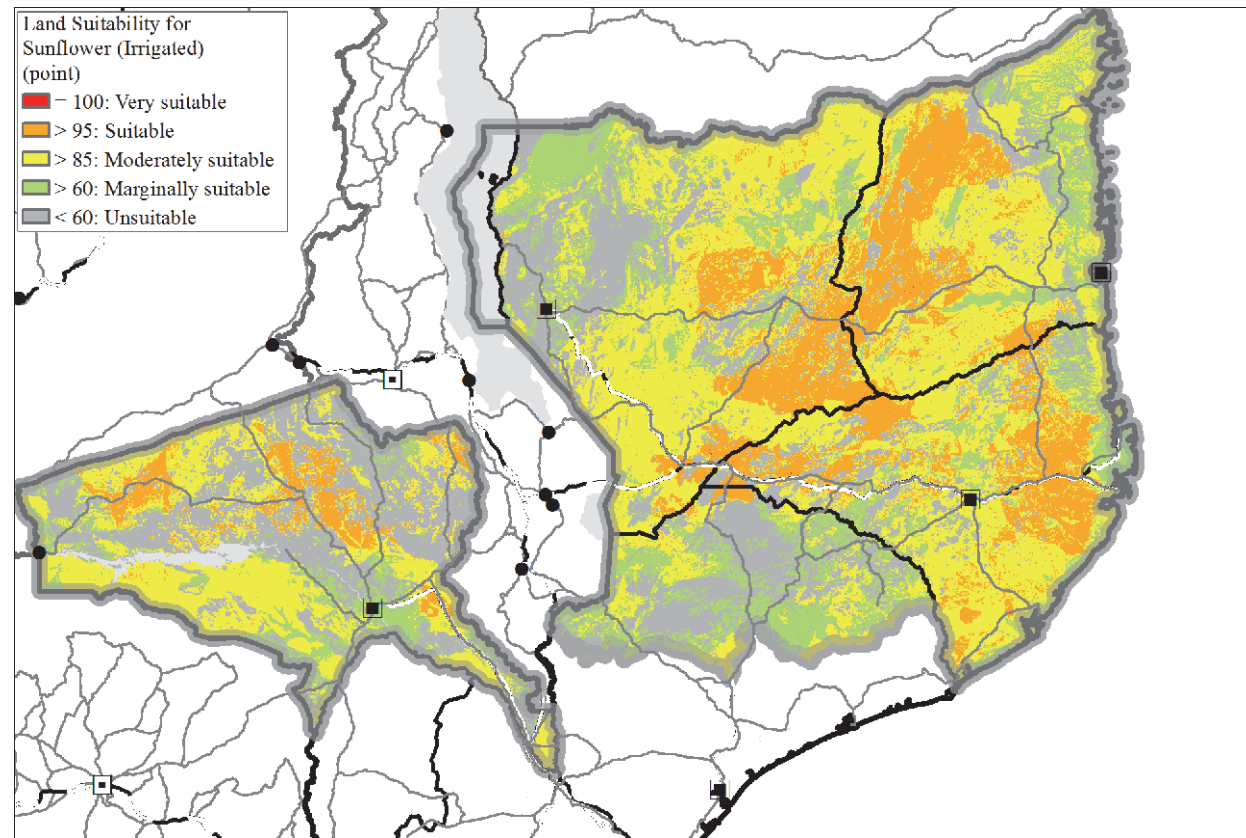
[C-1-43] Land Suitability (15. Sunflower)



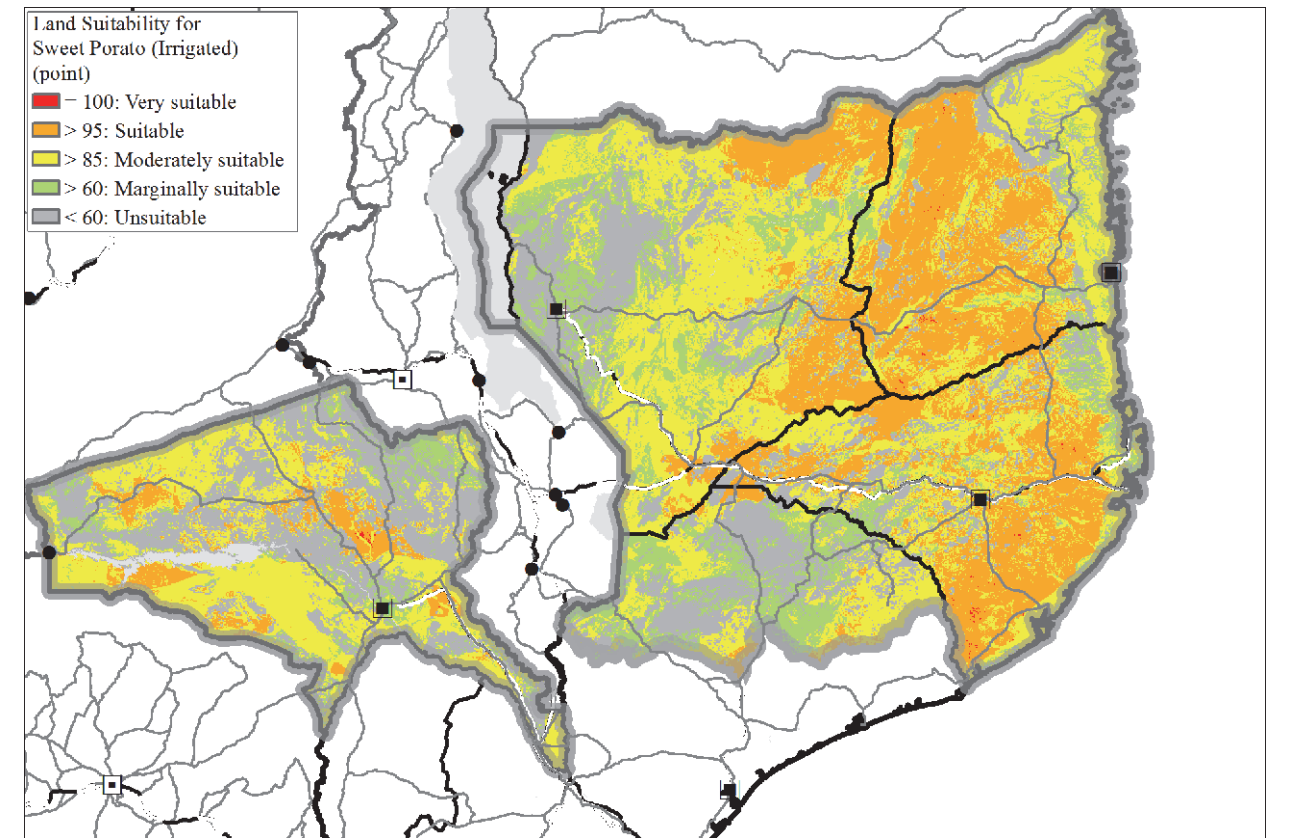
[C-1-45] Land Suitability (16. Sweet Potato)



[C-1-44] Land Suitability (15. Sunflower) <Irrigation>

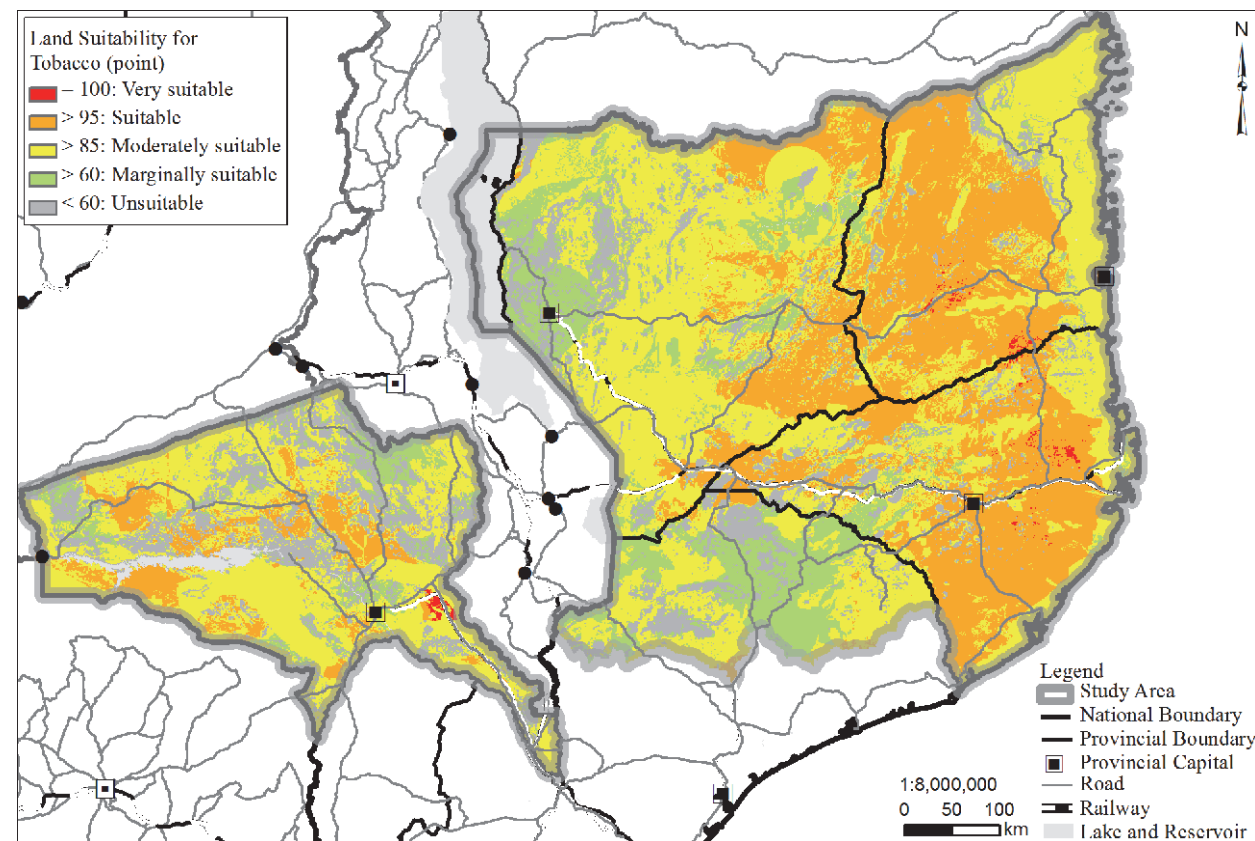


[C-1-46] Land Suitability (16. Sweet Potato) <Irrigation>



### C. Analysis Map / C-1 Agricultural Potentials [Potentials]

[C-1-47] Land Suitability (17. Tobacco)



[C-1-48] Land Suitability (17. Tobacco) <Irrigation>

