

Legend

- Basin Limit
- Lakes
- Rivers

Slope Percentages (%)

- 0.00 - 2.00
- 2.00 - 15.00
- 15.00 - 35.00
- 35.00 - Mas

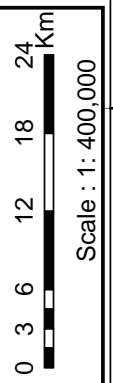
Porcentaje - Pendientes	Area (km2)
0-2	173.3
2 - 15	948.38
15 - 35	1418.79
Over 35	1731.62
TOTAL	4272.09

PI_14

Source: Direccion Forestal / DEM 30 x 30 Nasa
 JICA Study Team
 WGS 1984 UTM Zone 18S
 Projection: Universal Transverse Mercator

PROJECT OF THE PROTECTION OF FLOOD PLAIN AND VULNERABLE RURAL POPULATION AGAINST FLOODS

Slope Basin - Pisco River Basin



8475000 8500000 8525000 8550000

3750000 4000000 4250000 4500000 4750000 5000000

8475000 8500000 8525000 8550000

3750000 4000000 4250000 4500000 4750000 5000000

8475000 8500000 8525000 8550000

3750000 4000000 4250000 4500000 4750000 5000000

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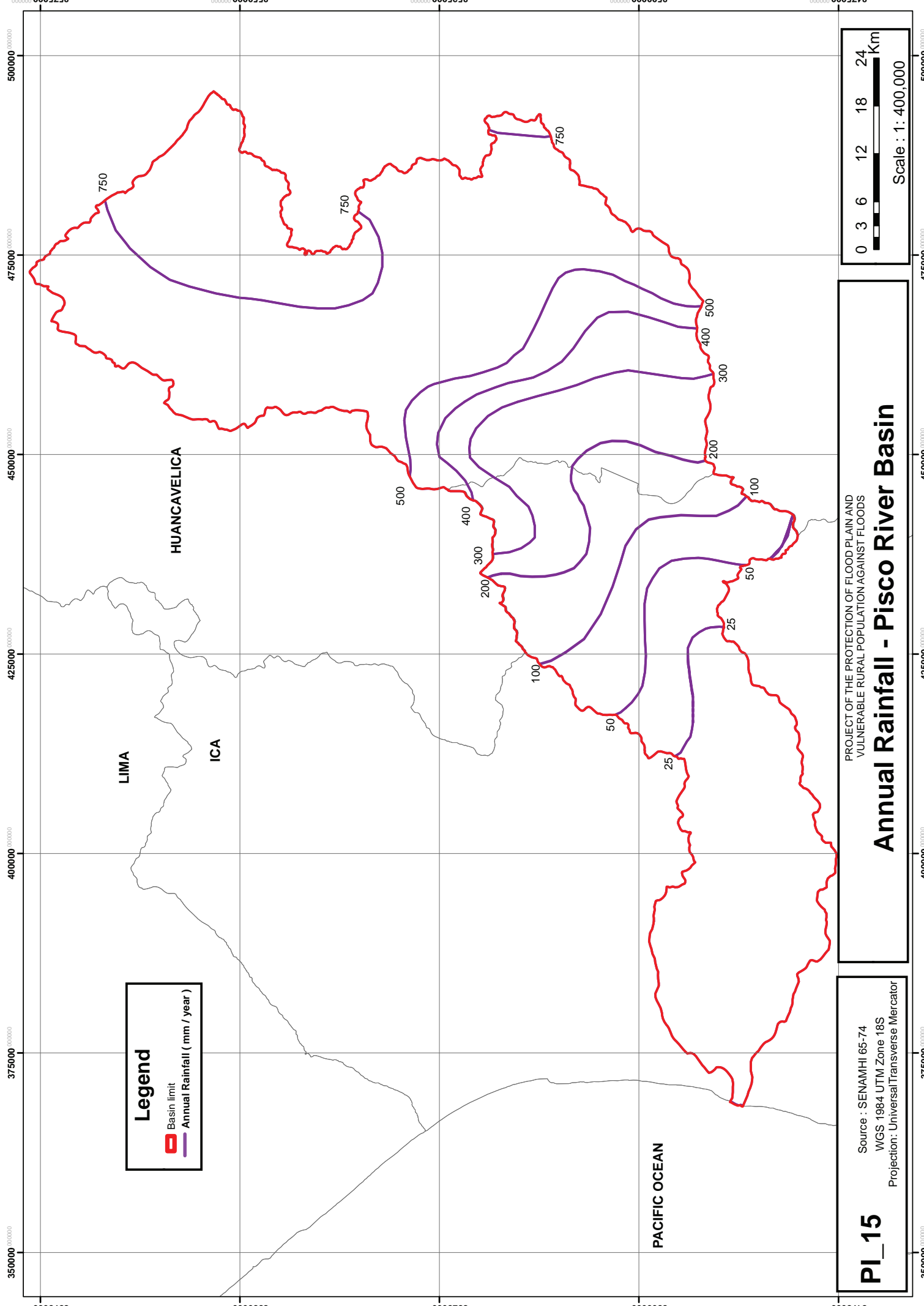
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3750000 4000000 4250000 4500000 4750000 5000000

8475000 8500000 8525000 8550000

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8475000 8500000 8525000 8550000



Legend

- Basin limit
- Annual Rainfall (mm / year)

PI_15

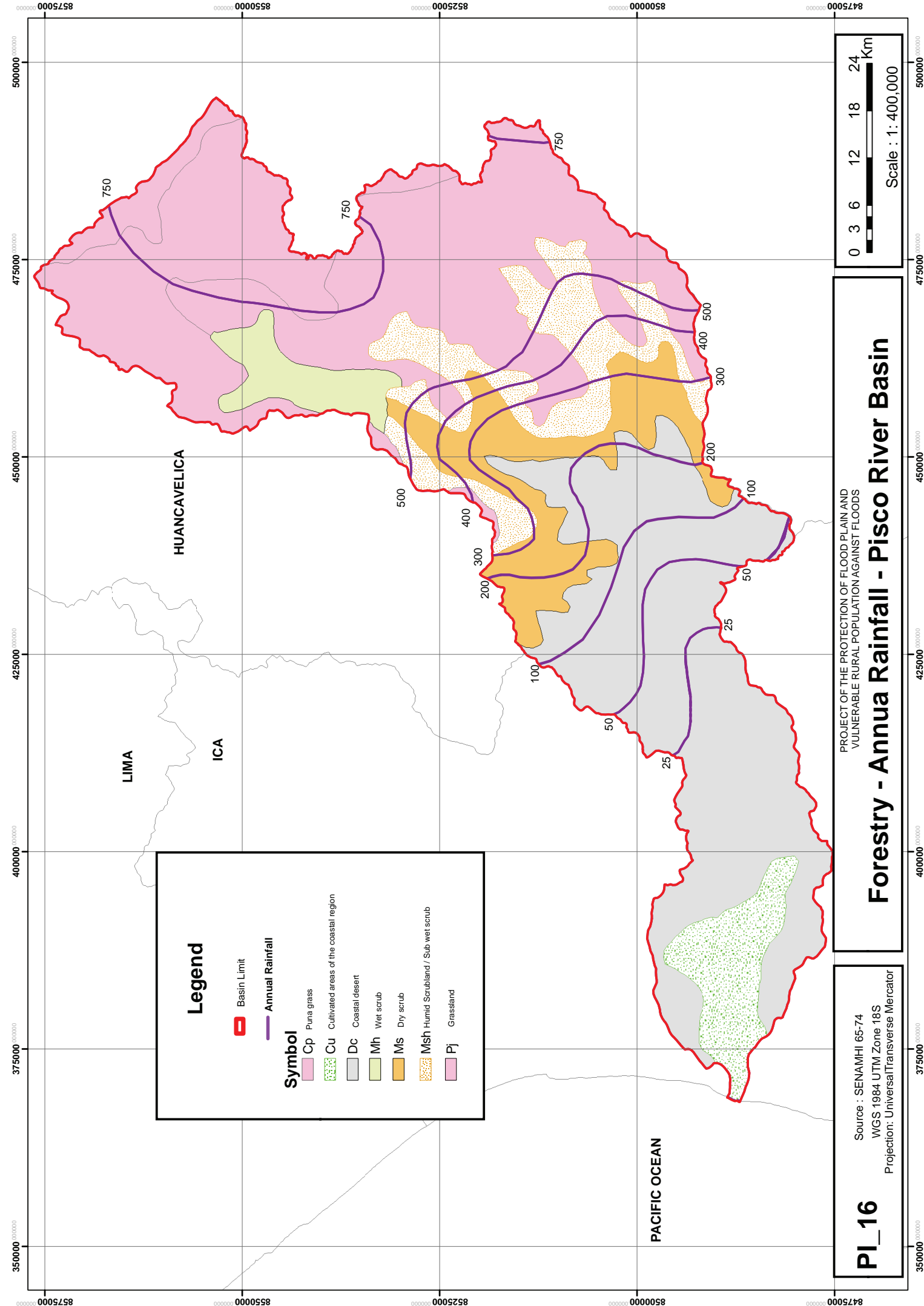
Source : SENAMHI 65-74
 WGS 1984 UTM Zone 18S
 Projection: Universal Transverse Mercator

PROJECT OF THE PROTECTION OF FLOOD PLAIN AND
 VULNERABLE RURAL POPULATION AGAINST FLOODS

Annual Rainfall - Pisco River Basin

0 3 6 12 18 24 Km

Scale : 1 : 400,000



Legend

Basin Limit
— Basin Limit

Annual Rainfall
— Annual Rainfall

Symbol

- Cp Puna grass
- Cu Cultivated areas of the coastal region
- DC Coastal desert
- Mh Wet scrub
- Ms Dry scrub
- MSh Humid Scrubland / Sub wet scrub
- Pj Grassland



PROJECT OF THE PROTECTION OF FLOOD PLAIN AND
 VULNERABLE RURAL POPULATION AGAINST FLOODS

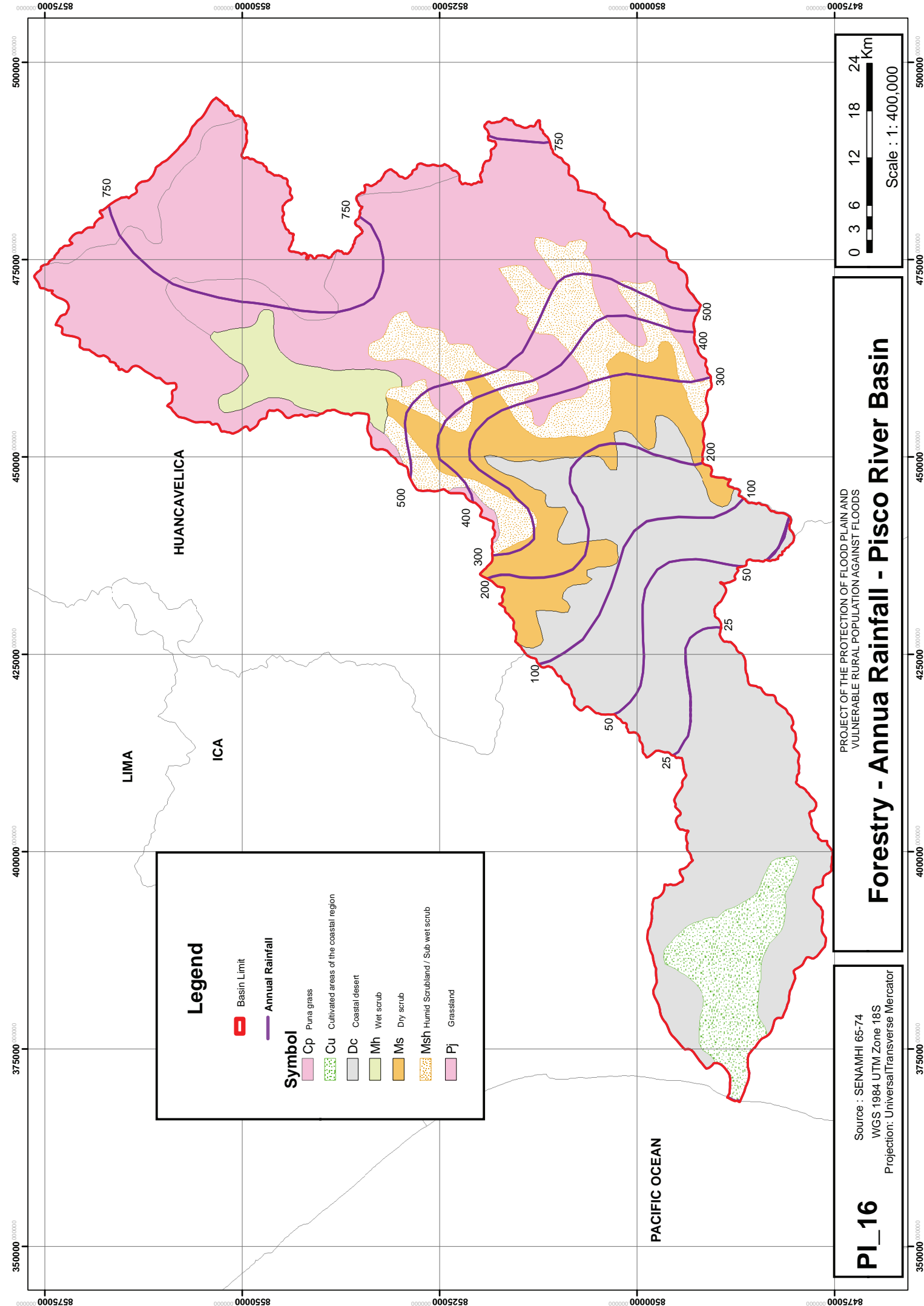
Forestry - Annual Rainfall - Pisco River Basin

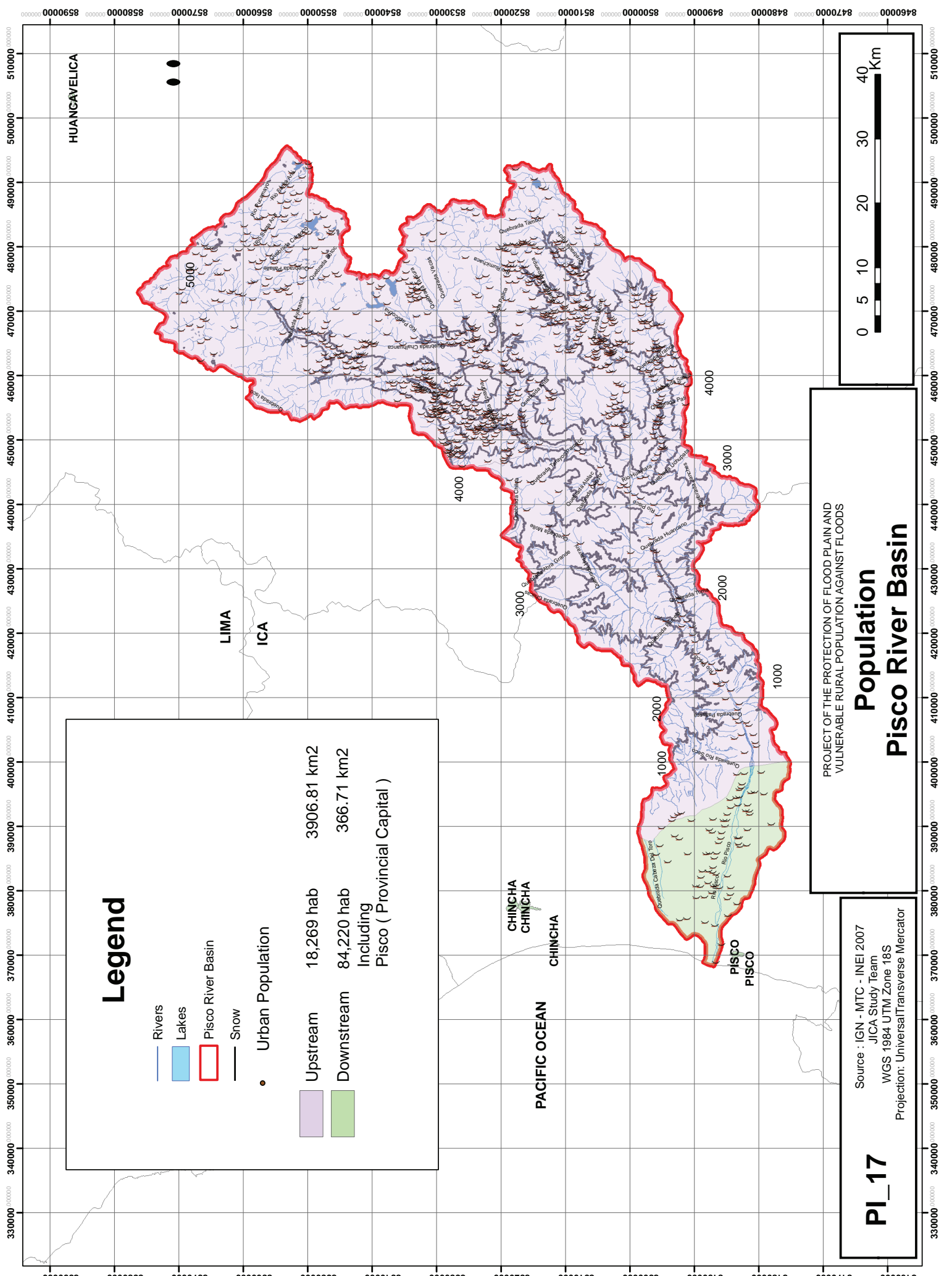
PI_16

Source : SENAMHI 65-74
 WGS 1984 UTM Zone 18S
 Projection: Universal Transverse Mercator

LIMA
 ICA
 HUANCVELICA

PACIFIC OCEAN





Legend

- Rivers
 - Lakes
 - Pisco River Basin
 - Snow
 - Urban Population
- | | | |
|------------|------------|-------------------------|
| Upstream | 18,269 hab | 3906.81 km ² |
| Downstream | 84,220 hab | 366.71 km ² |
- Including Pisco (Provincial Capital)

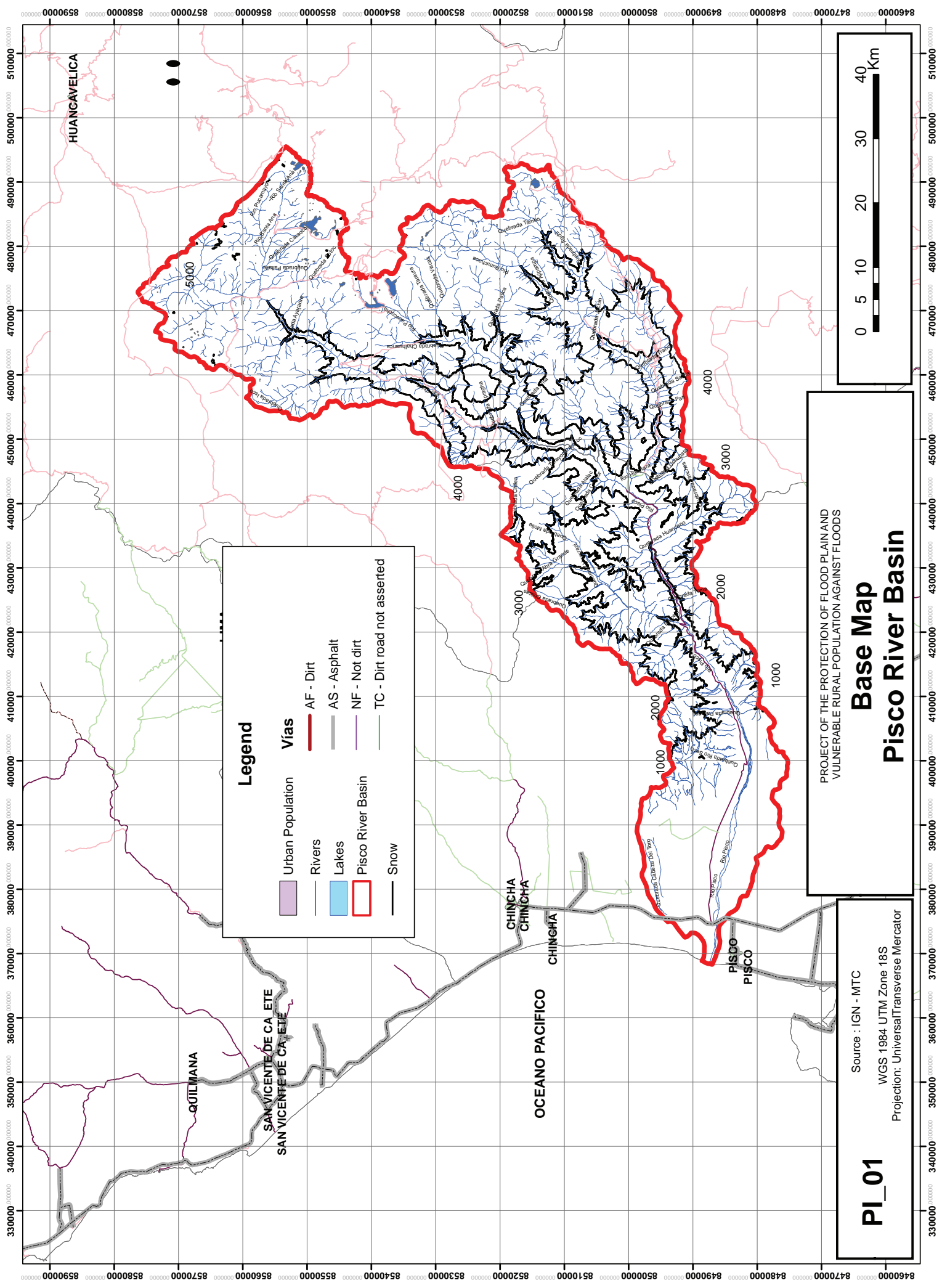
PROJECT OF THE PROTECTION OF FLOOD PLAIN AND
VULNERABLE RURAL POPULATION AGAINST FLOODS

Population Pisco River Basin

PI_17

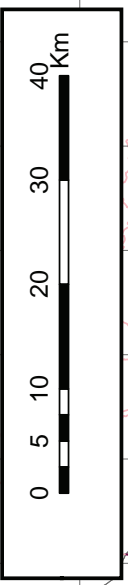
Source : IGN - MTC - INEI 2007
JICA Study Team
WGS 1984 UTM Zone 18S
Projection: Universal Transverse Mercator





Legend

	Urban Population		Vías
	Rivers		AF - Dirt
	Lakes		AS - Asphalt
	Pisco River Basin		NF - Not dirt
	Snow		TC - Dirt road not asserted



PROJECT OF THE PROTECTION OF FLOOD PLAIN AND VULNERABLE RURAL POPULATION AGAINST FLOODS

Base Map

Pisco River Basin

PI_01

Source : IGN - MTC
 WGS 1984 UTM Zone 18S
 Projection: UniversalTransverse Mercator

8460000 8470000 8480000 8490000 8500000 8510000 8520000 8530000 8540000 8550000 8560000 8570000 8580000 8590000

330000 340000 350000 360000 370000 380000 390000 400000 410000 420000 430000 440000 450000 460000 470000 480000 490000 500000 510000

HUANGAVELICA

QUILMANA

SAN VICENTE DE CAETE

SAN VICENTE DE CAETE

OCEANO PACIFICO

CHINGHA

CHINGHA

CHINGHA

PISCO

PISCO

5000

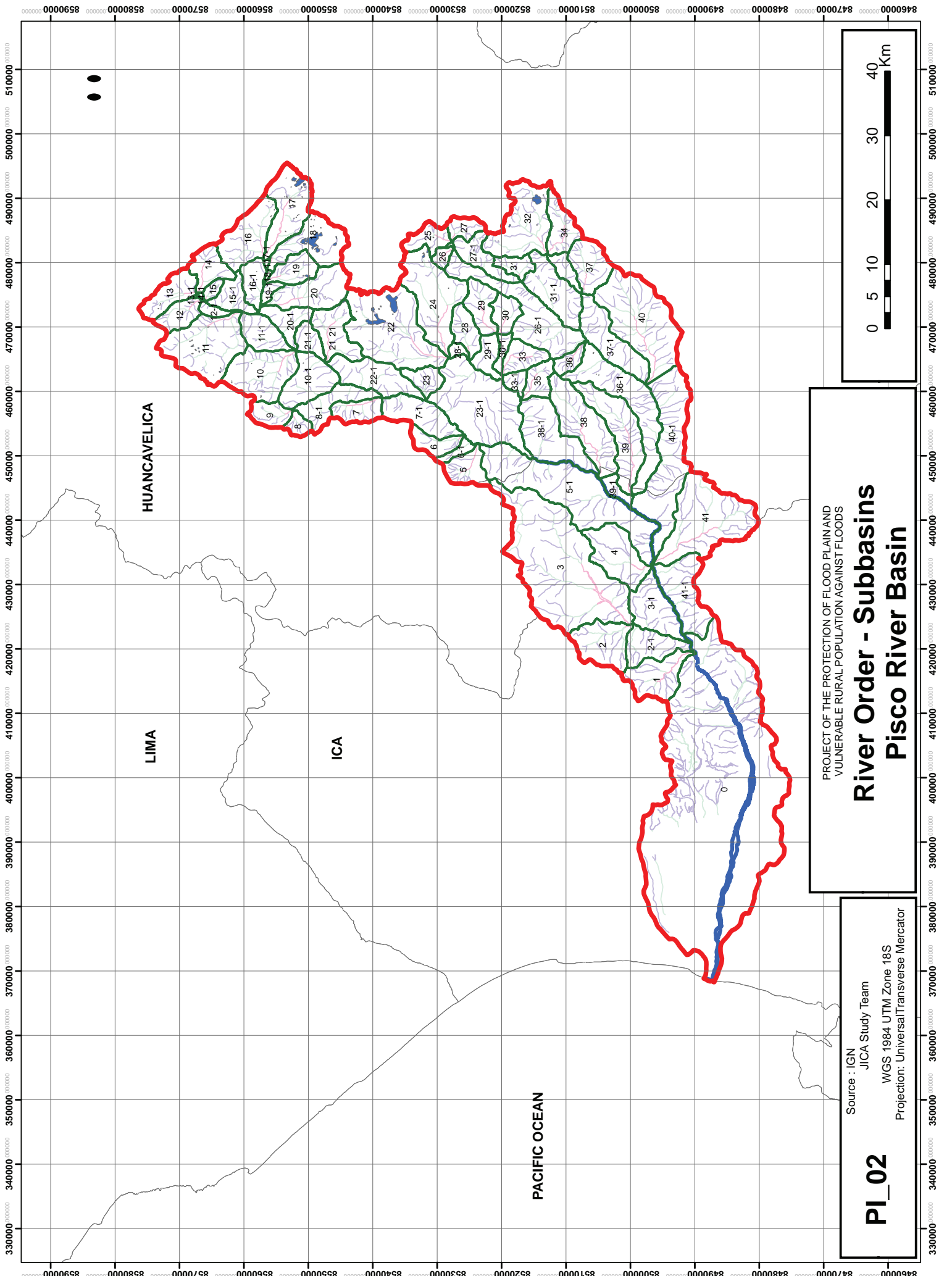
4000

3000

2000

1000

0 5 10 20 30 40 Km



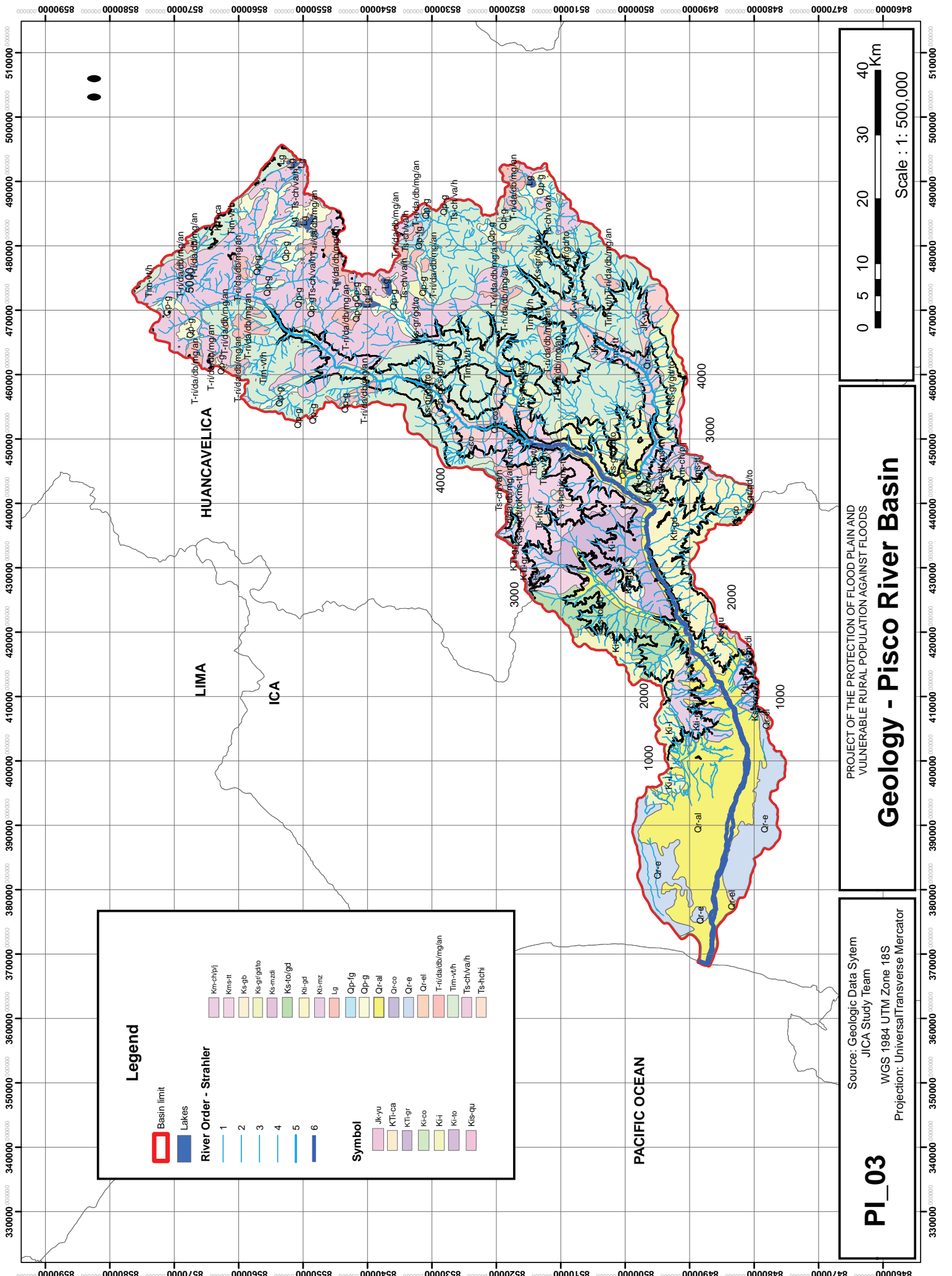
PROJECT OF THE PROTECTION OF FLOOD PLAIN AND
VULNERABLE RURAL POPULATION AGAINST FLOODS

River Order - Subbasins

Pisco River Basin

PI_02

Source : IGN
JICA Study Team
WGS 1984 UTM Zone 18S
Projection: Universal Transverse Mercator



Legend

Basin limit (Red outline)

Lakes (Blue area)

River Order - Strahler

- 1 (Thin blue line)
- 2 (Medium blue line)
- 3 (Thick blue line)
- 4 (Thicker blue line)
- 5 (Thickest blue line)
- 6 (Thickest blue line)

Symbol

Jk-yu	Ken-chipj
KIT-ca	Kms-itt
KIT-gr	Ks-gb
Ki-co	Ks-gr/gd/lo
KH	Ks-mz/di
Ki-to	Ks-to/gd
Kis-qu	Kti-gd
	Kti-mz
	Lg
	Qp-fg
	Qp-g
	Qr-sl
	Qr-co
	Qr-e
	Qr-el
	T-r/da/db/mg/an
	Tim-vjh
	Ki-to
	Ts-ch/va/h
	Ts-hcti

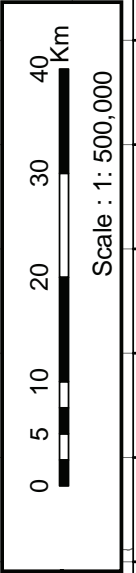
PI_03

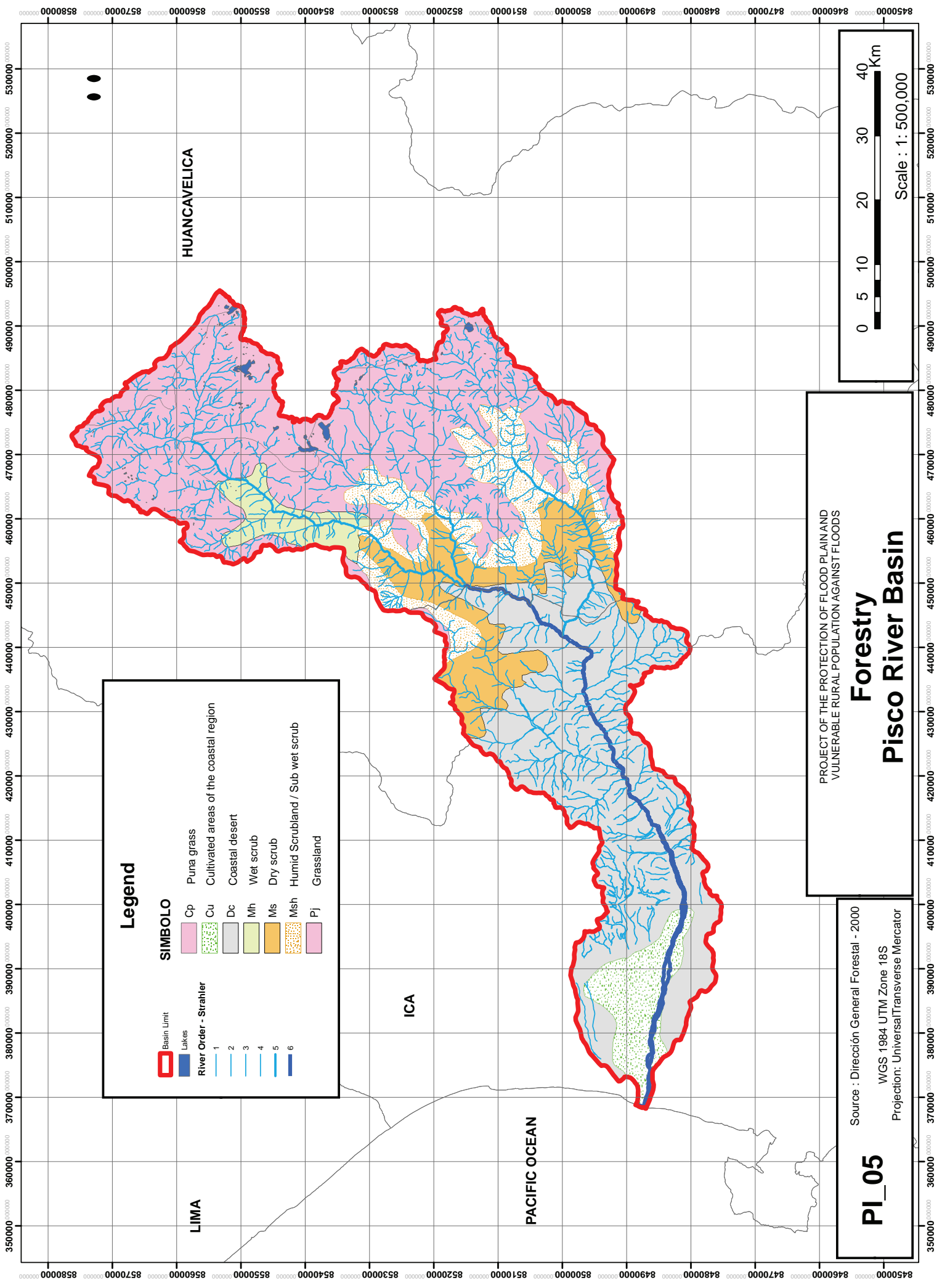
Source: Geologic Data Sytem
 JICA Study Team

WGS 1984 UTM Zone 18S
 Projection: Universal Transverse Mercator
















PROJECT OF THE PROTECTION OF FLOOD PLAIN AND
 VULNERABLE RURAL POPULATION AGAINST FLOODS

Geology - Pisco River Basin





Legend

 Basin Limit	SIMBOLO	 Puna grass
 Lakes		 Cultivated areas of the coastal region
River Order - Strahler		 Coastal desert
1 		 Wet scrub
2 		 Dry scrub
3 		 Humid Scrubland / Sub wet scrub
4 		 Grassland
5 		
6 		

PROJECT OF THE PROTECTION OF FLOOD PLAIN AND
VULNERABLE RURAL POPULATION AGAINST FLOODS

Forestry Pisco River Basin

PI_05

Source : Dirección General Forestal - 2000
WGS 1984 UTM Zone 18S
Projection: UniversalTransverse Mercator

