SERVICIO NACIONAL DE METEOROLOGIA E HIDROLOGIA

SENAMHI

MAPAS DEL BALANCE HIDRICO SUPERFICIAL Y DEL ATLAS HIDROLOGICO

UBICACION DE CUENCAS
TEMPERATURA MAXIMA
TEMPERATURA MINIMA
TEMPERATURA MEDIA
PRECIPITACION MEDIA
PRECIPITACION MAXIMA
PRECIPITACION MINIMA
VELOCIDAD DE VIENTO

EVAPORACION
HORAS DE SOL
HUMEDAD RELATIVA
EVAPOTRANSPIRACION DE REFERENCIA
COEFICIENTE DE CULTIVO (Kc)
EVAPOTRANSPIRACION DE CULTIVO
ESCORRENTIA

LIMA - PERU
2004

SENAMHI

SERVICIO NACIONAL DE METEOROLOGIA E HIDROLOGIA

DIRECCION GENERAL DE HIDROLOGIA Y RECURSOS HIDRICOS

JEFE DEL SENAMHI
Mayor General FAP MIGUEL GOMEZ VIZCARRA

DIRECTOR TÉCNICO
Coronel FAP RAFAEL CAMPOS CRUZADO

DIRECTOR GENERAL DE HIDROLOGIA Y RECURSOS HIDRICOS
Ingº JORGE YERREN SUAREZ

DIRECTOR DE HIDROLOGIA APLICADA
M. Sc. Ing. JULIO ORDOÑEZ GALVEZ

RESPONSABLES : Ingº HECTOR VERA AREVALO

M. Sc. Ingº JULIO ORDOÑEZ GALVEZ

Ingº JULIA ACUÑA AZARTE

APOYO : LESLY CHAVEZ SUNCION

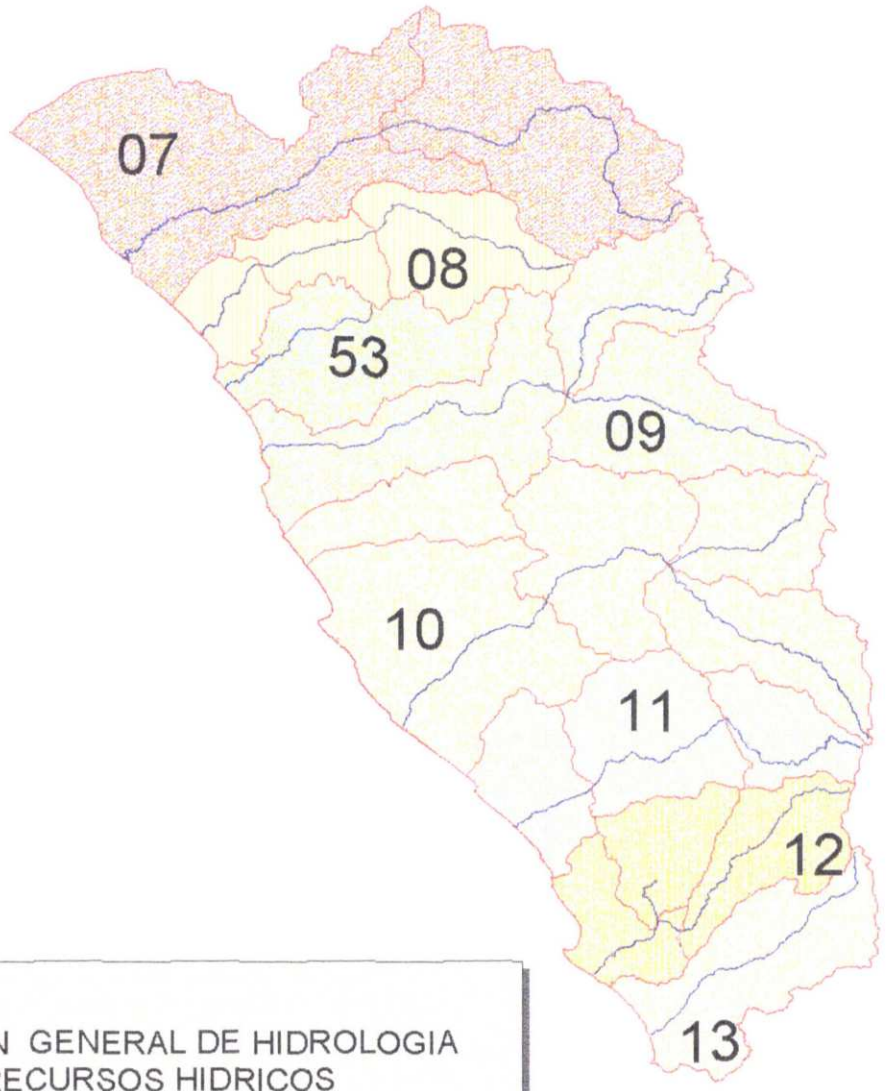
MIRIAN CASAVERDE RIVERA

LIMA - PERU

2004

PRO: DIR. CIENTÍF. 26 m 2009

UBICACION DE LAS CUENCAS EN ESTUDIO



07 CHANCAY - LANBAYEQYE
08 ZAÑA
53 CHAMAN
09 JEQUETEPEQUE
10 CHICAMA
11 MOCHE
12 VIRU
13 CHAO

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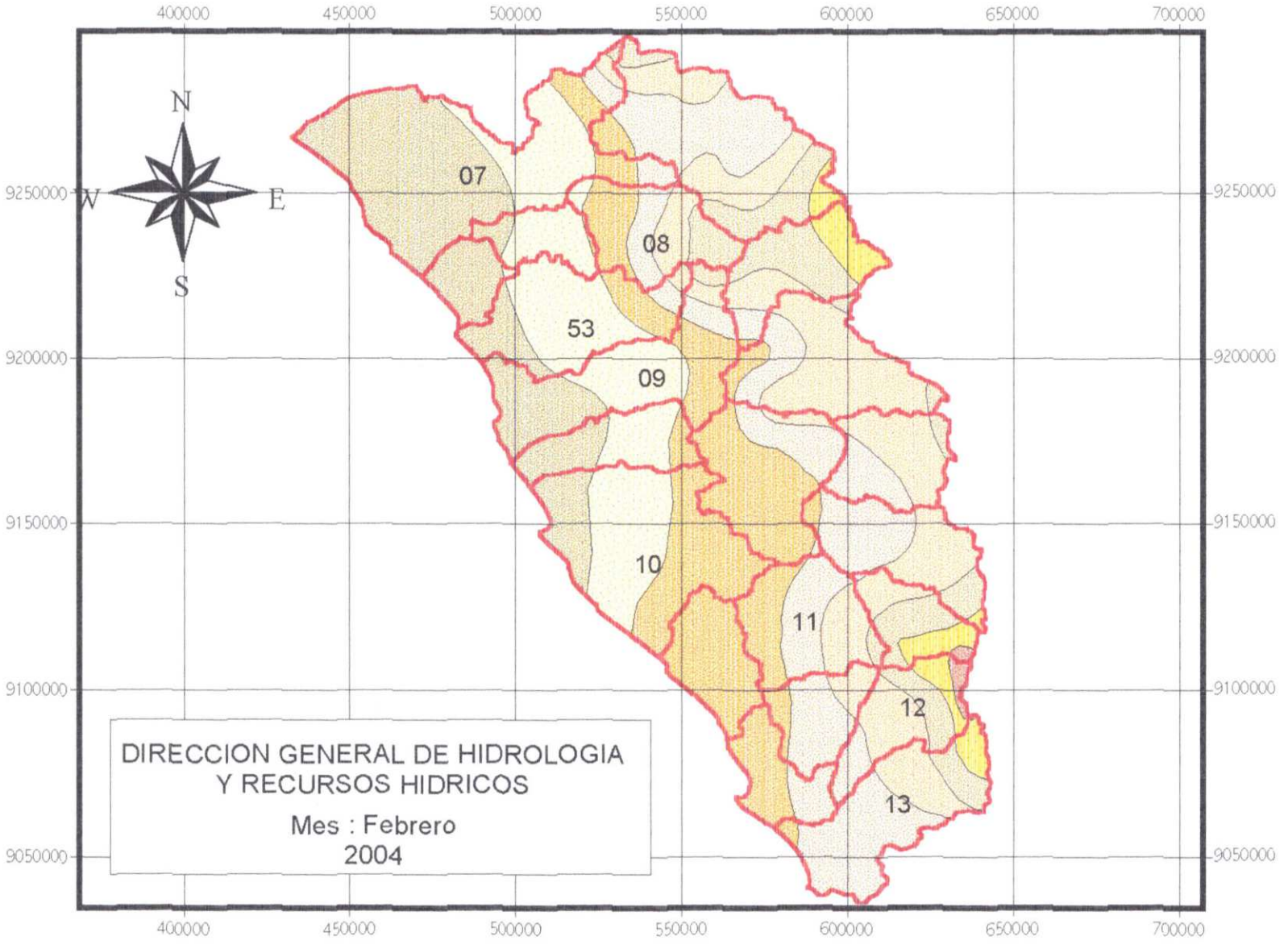
DIRECCION GENERAL DE HIDROLOGIA
Y RECURSOS HIDRICOS

TEMPERATURA MAXIMA



CUENCAS

07	Chancay Lamb.
08	Zaña
09	Jequetepeque
10	Chicama
11	Moche
12	Virú
13	Chao
53	Chaman

LEYENDA

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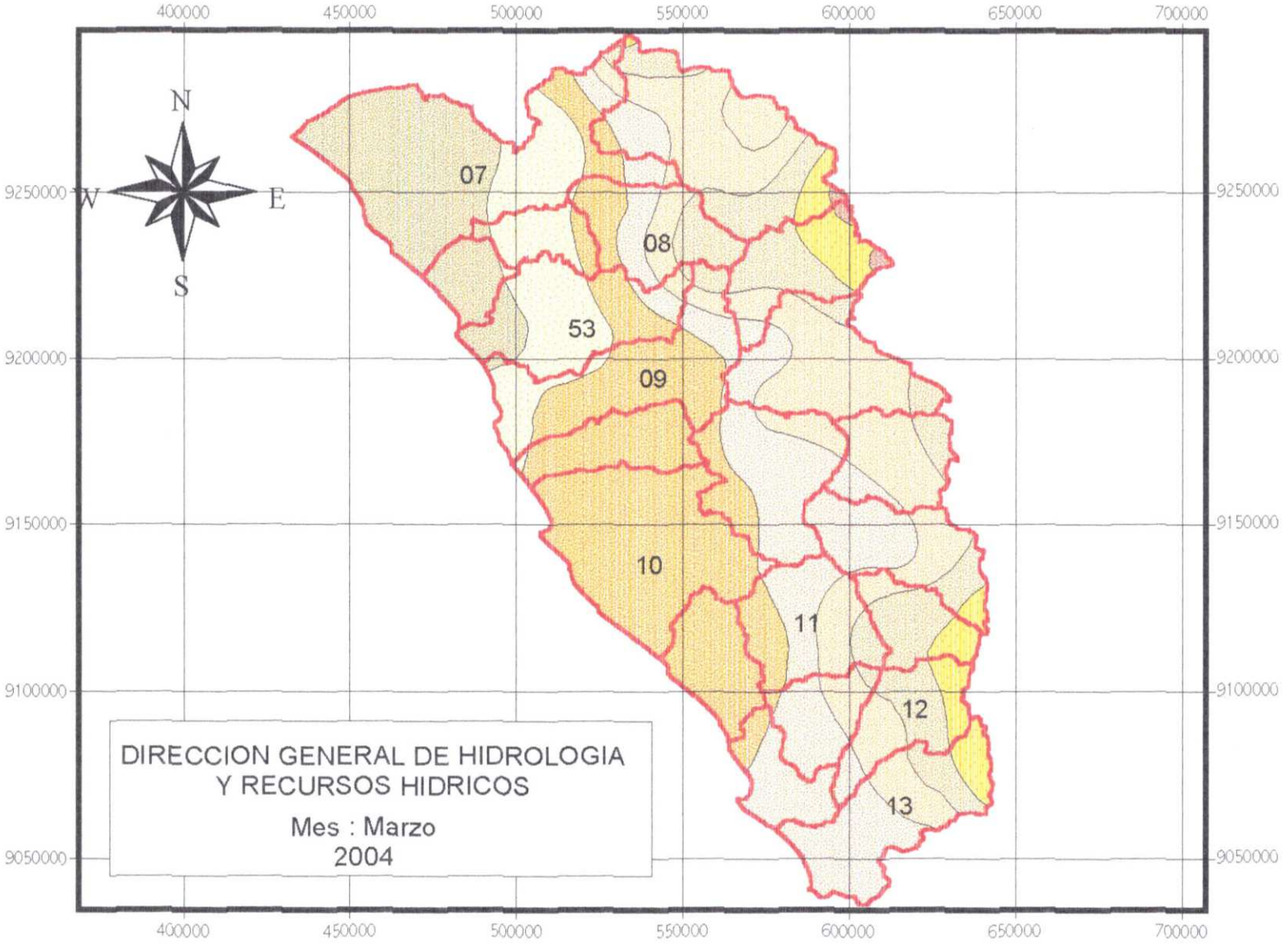
30 0 30 60 Miles

TEMPERATURA MAXIMA



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LEYENDA

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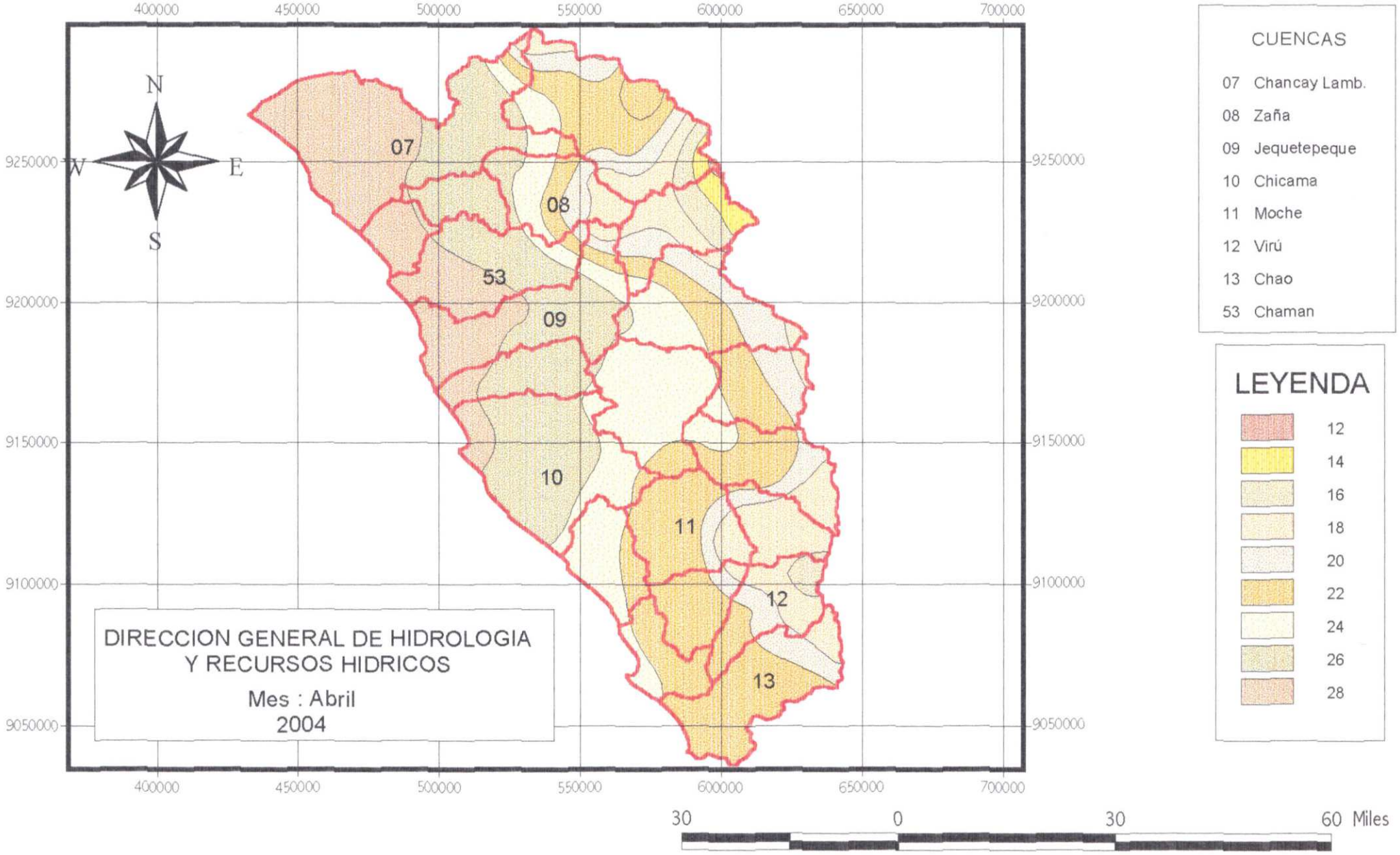
30 0 30 60 Miles

TEMPERATURA MAXIMA



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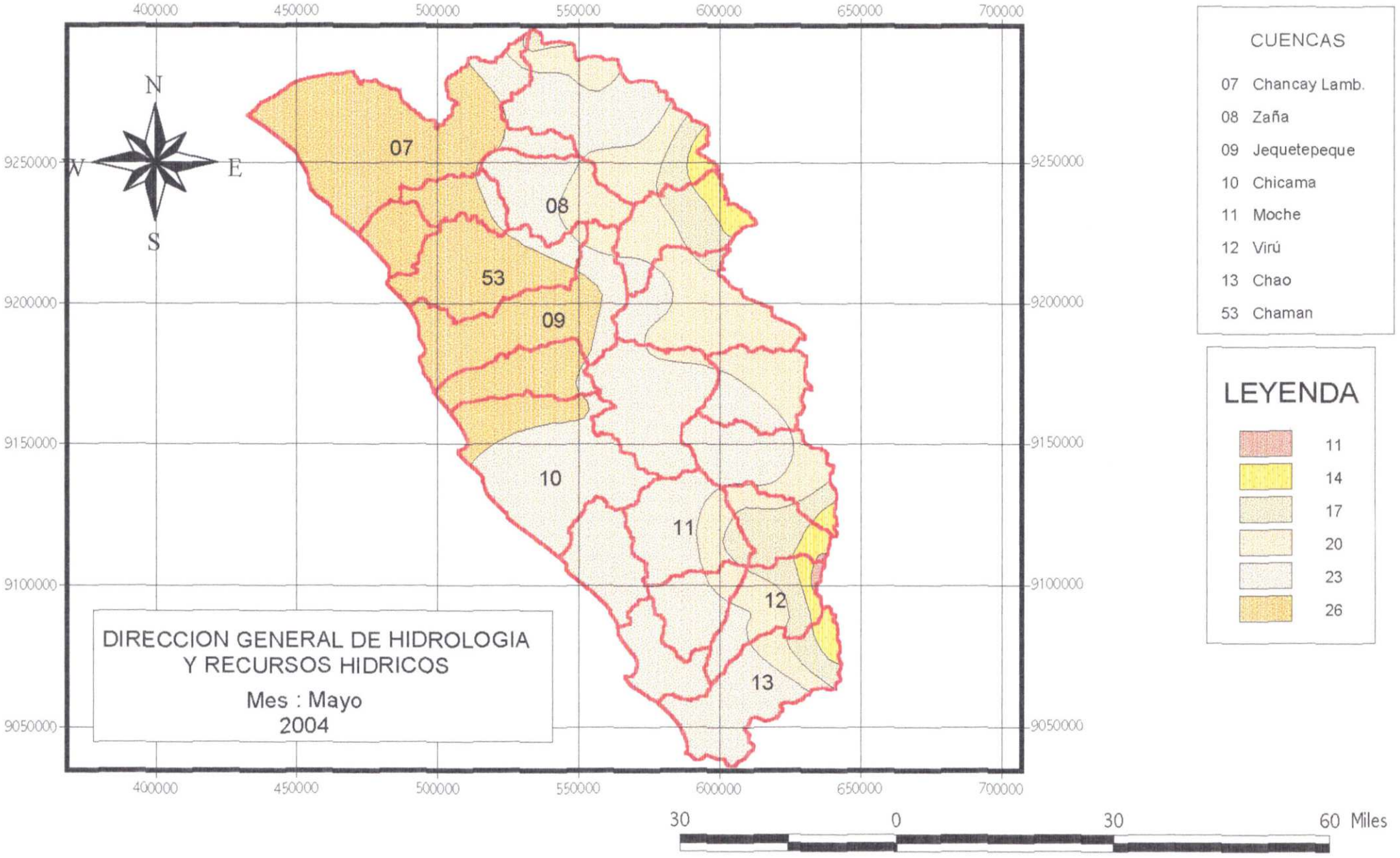

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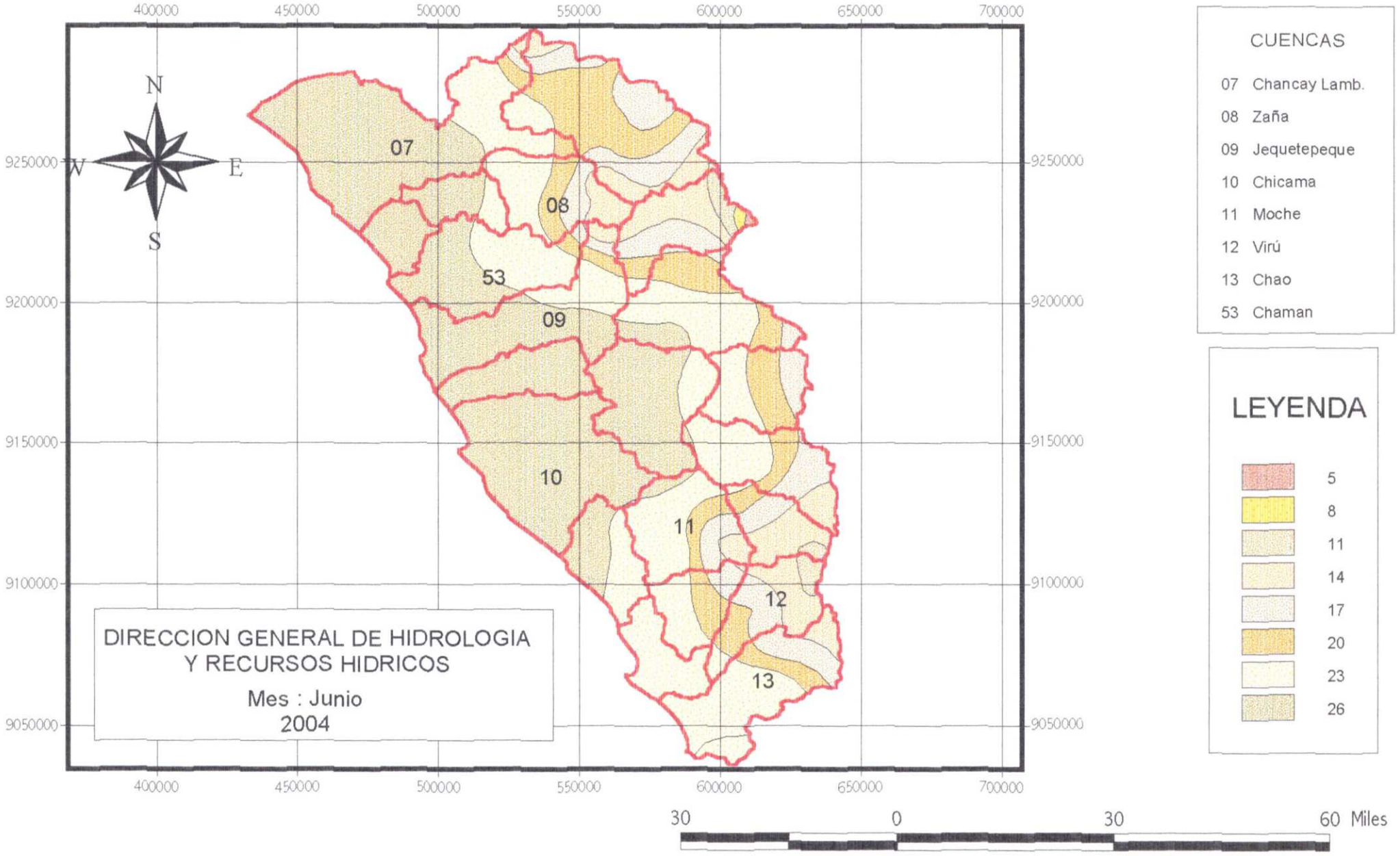

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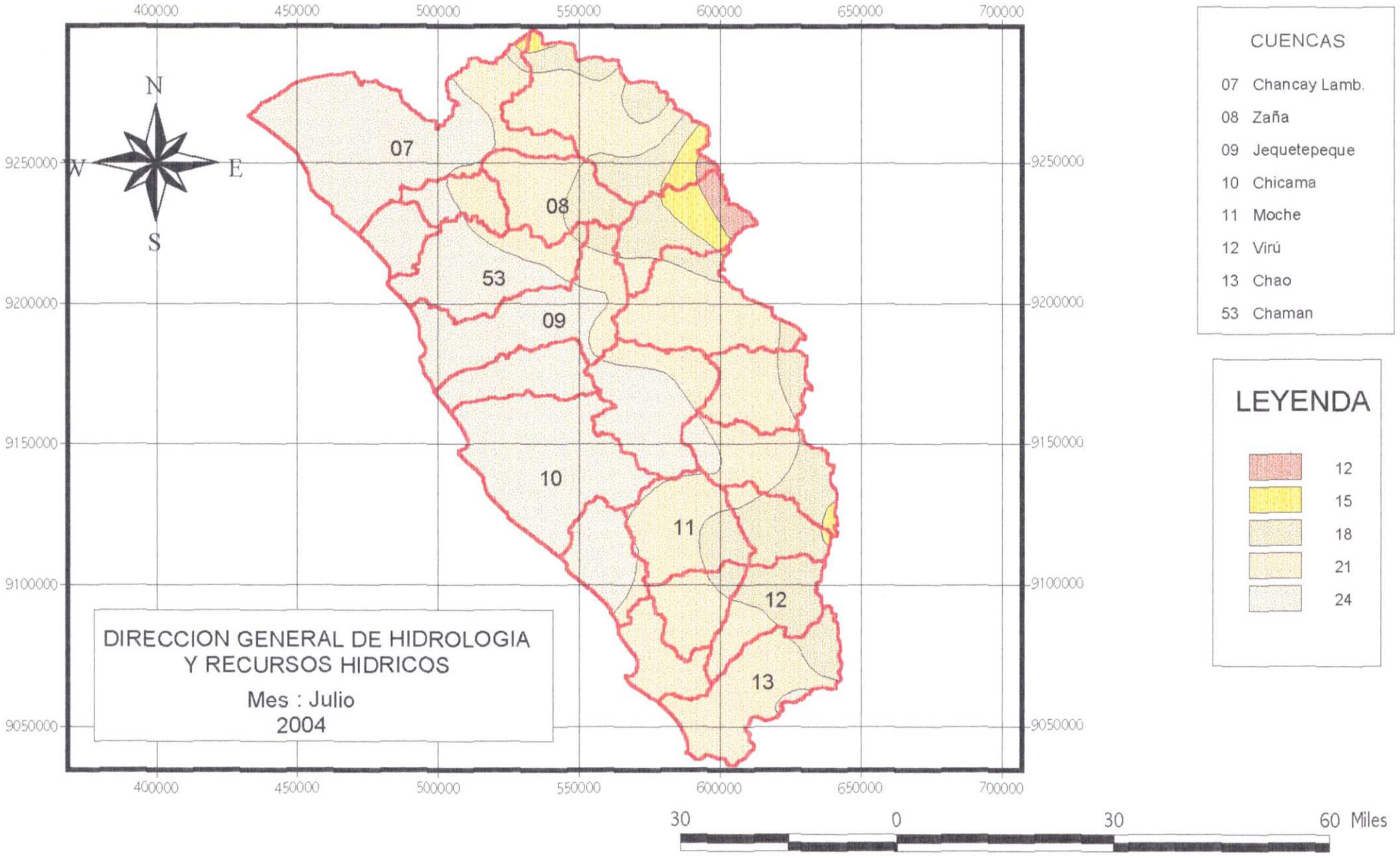

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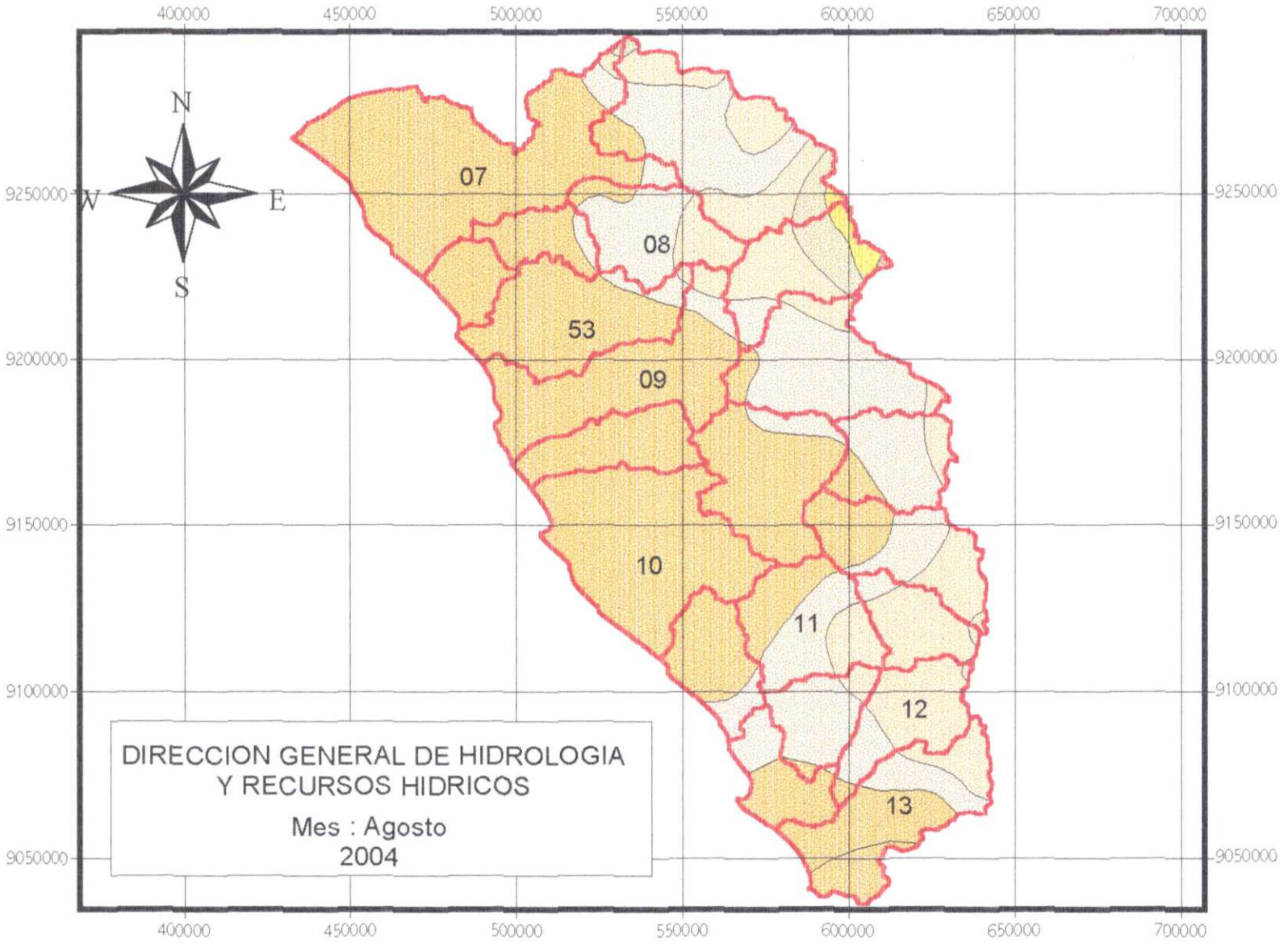

CUENCAS

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53 Chaman

LEYENDA

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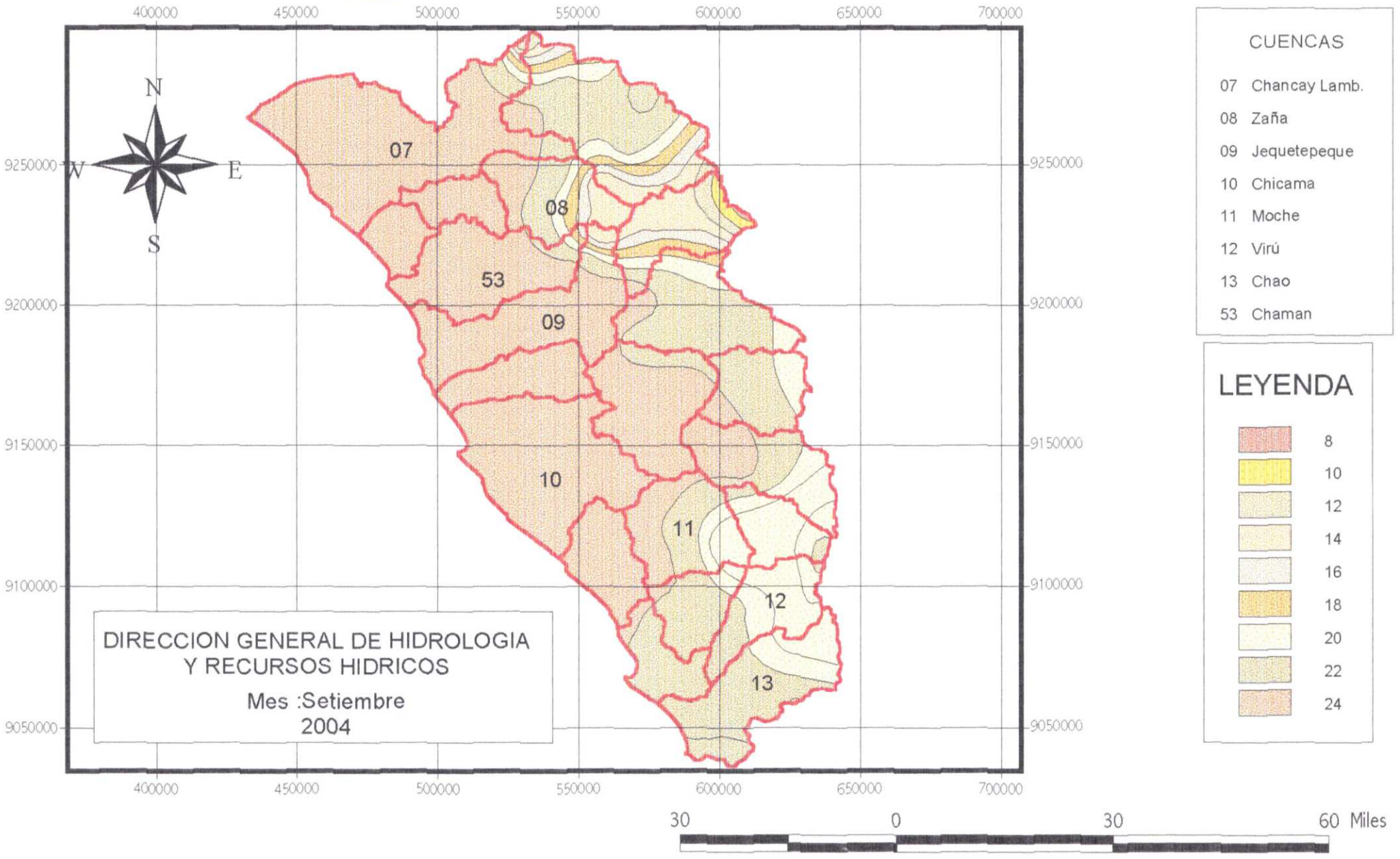
30 0 30 60 Miles

SENAMHI
BIBLIOTECA

TEMPERATURA MAXIMA



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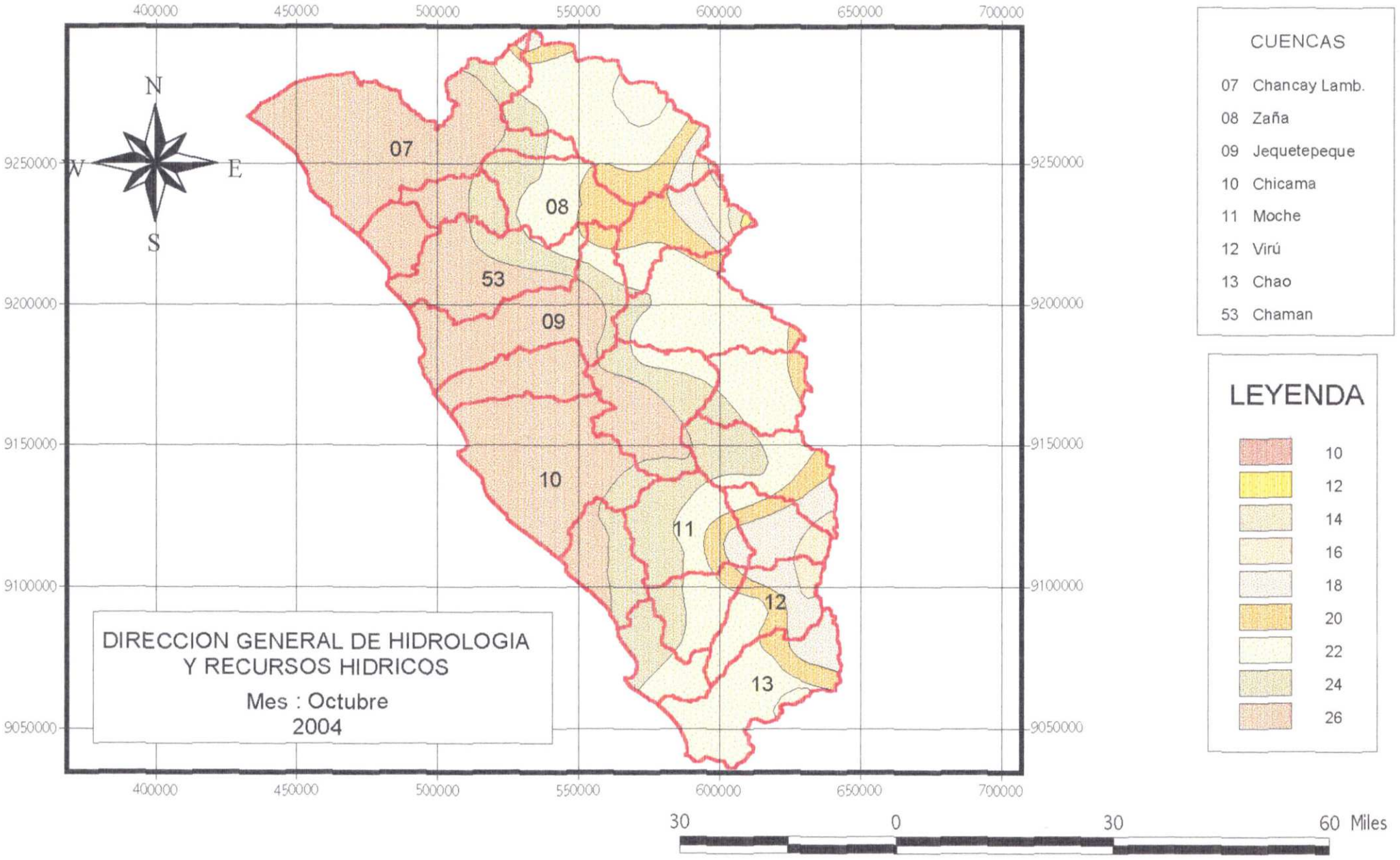

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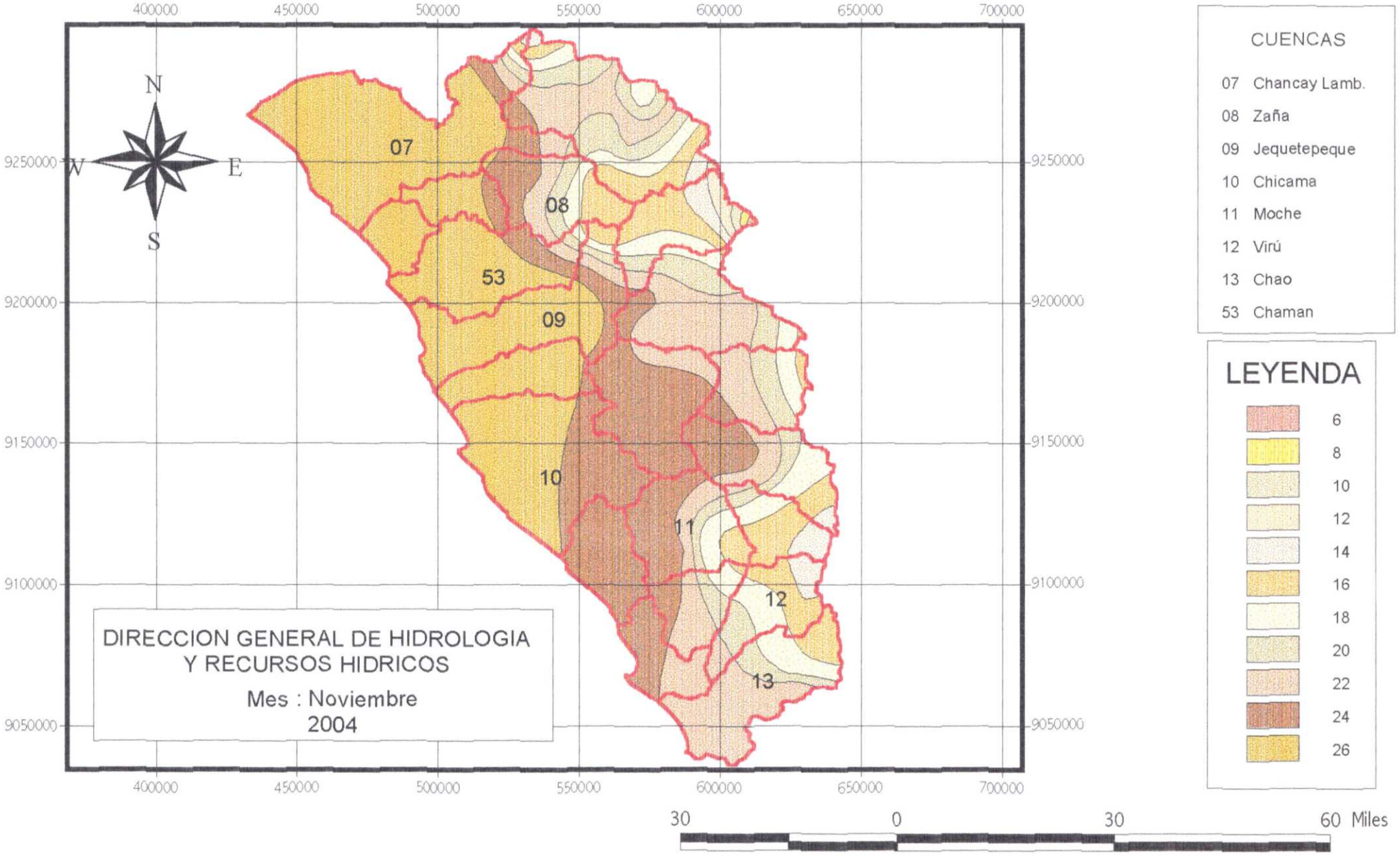

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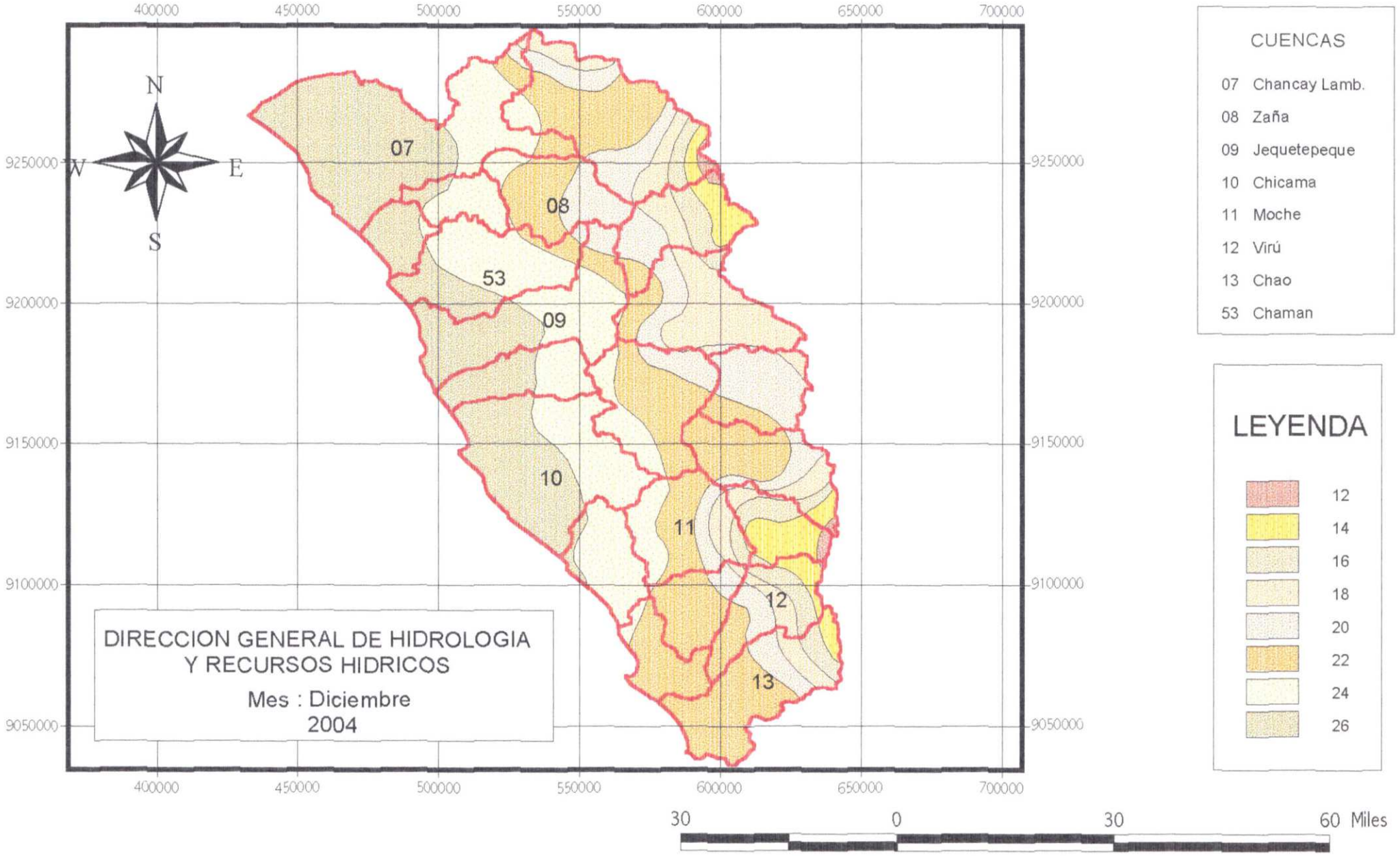

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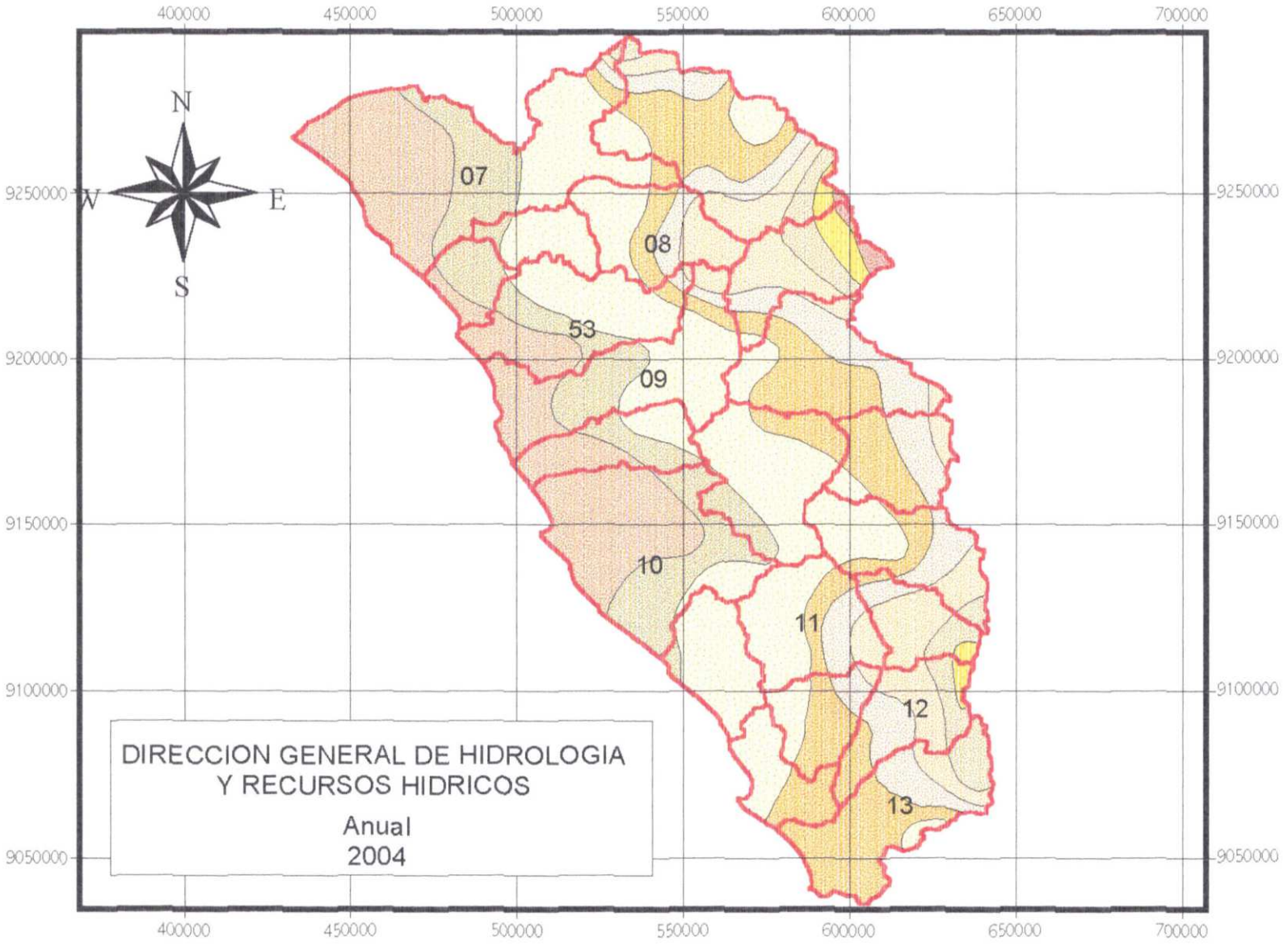

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LEYENDA

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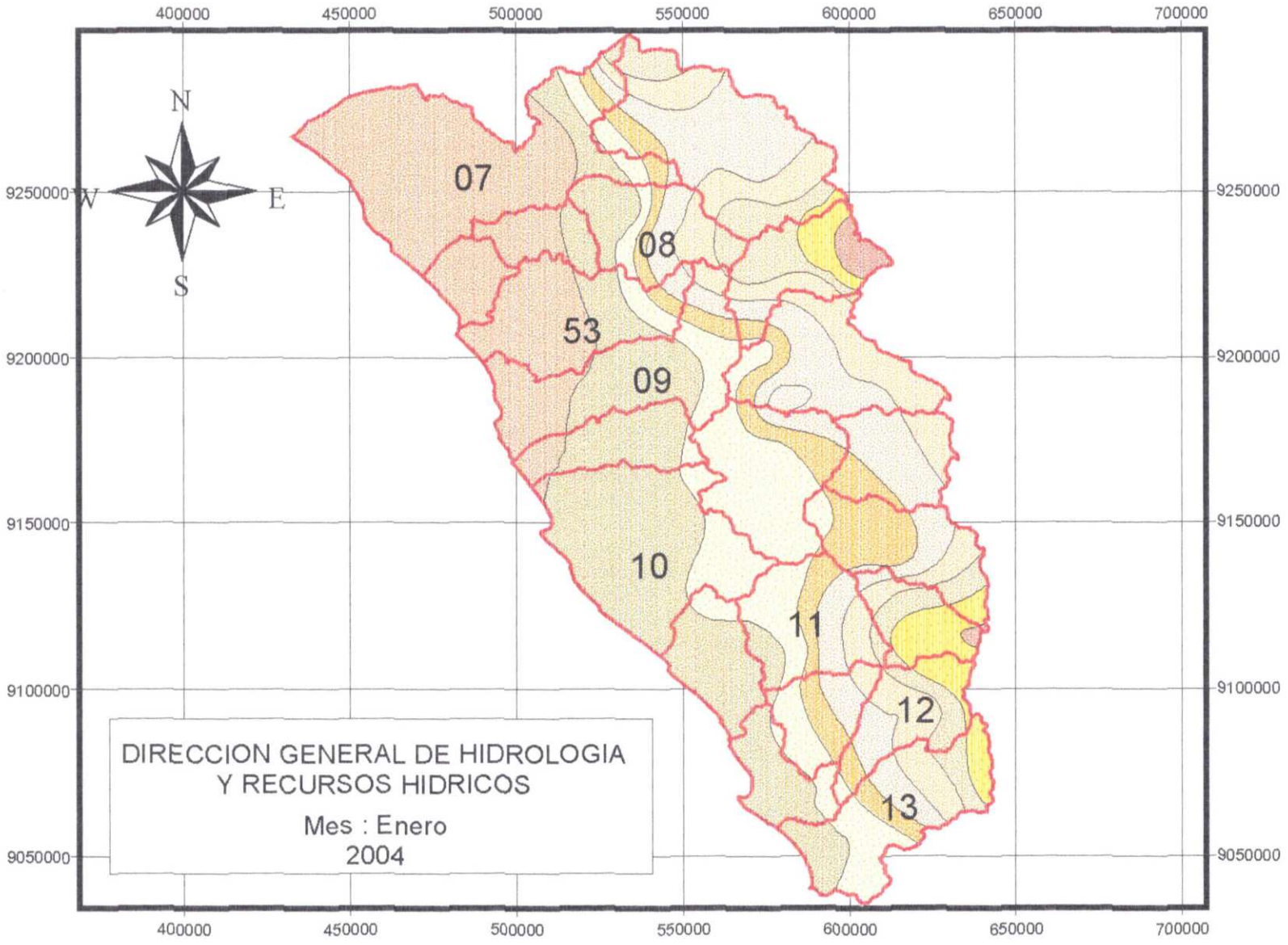
TEMPERATURA MINIMA



CUENCAS

07 Chancay Lamb.
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10 Chicama
11 Moche
12 Virú
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53 Chaman

LEYENDA

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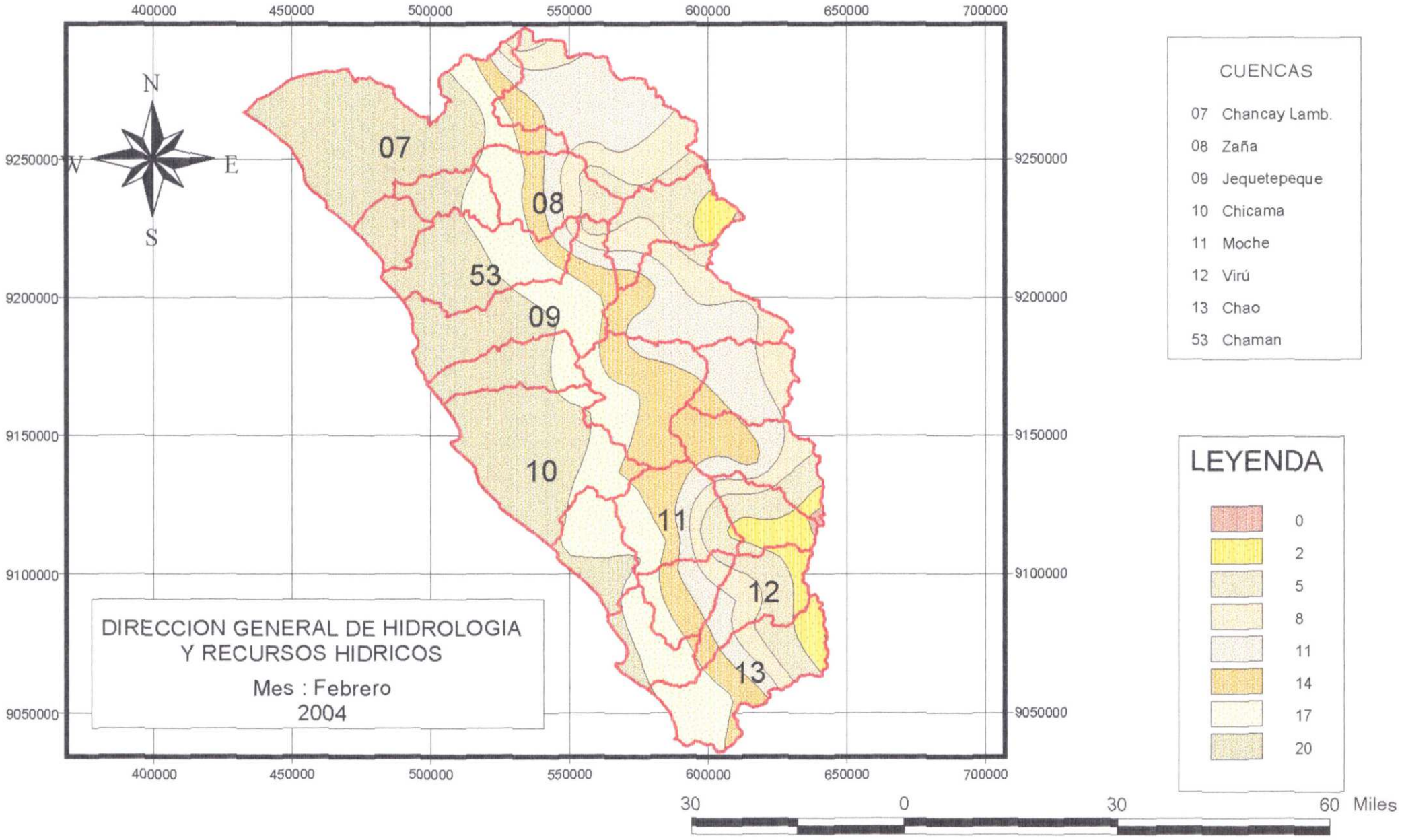
TEMPERATURA MINIMA



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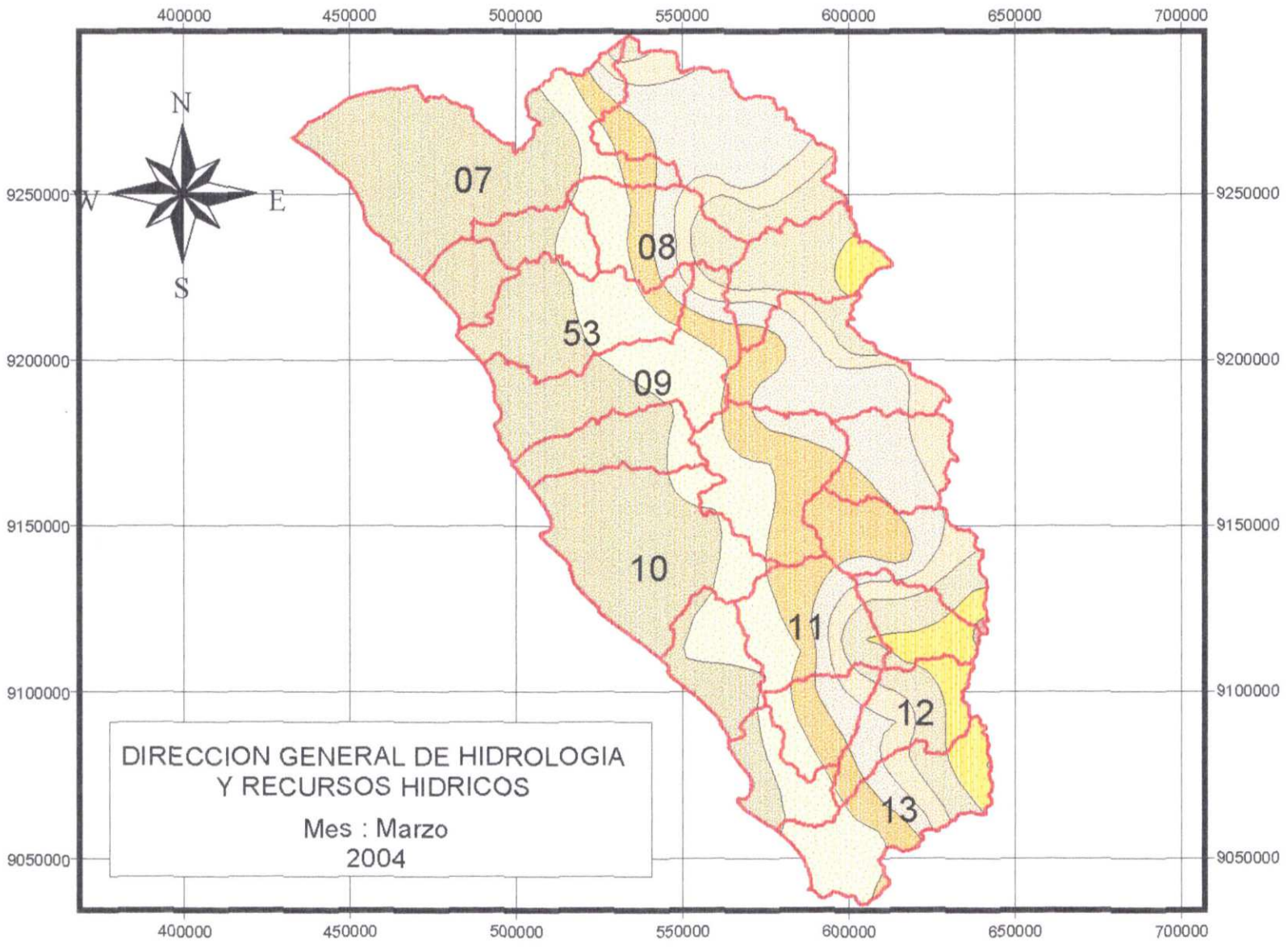

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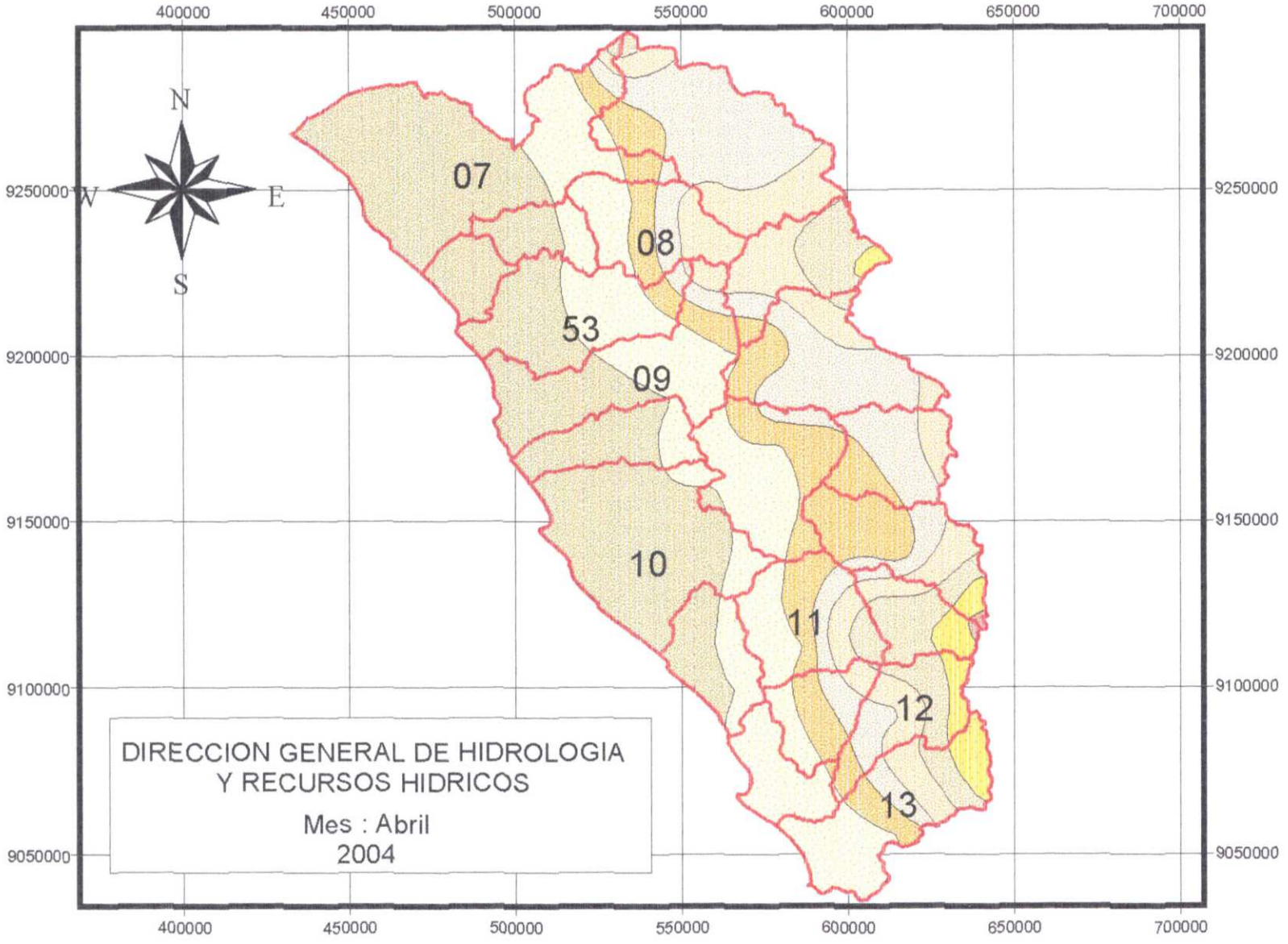

CUENCAS

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11 Moche
12 Virú
13 Chao
53 Chaman

LEYENDA

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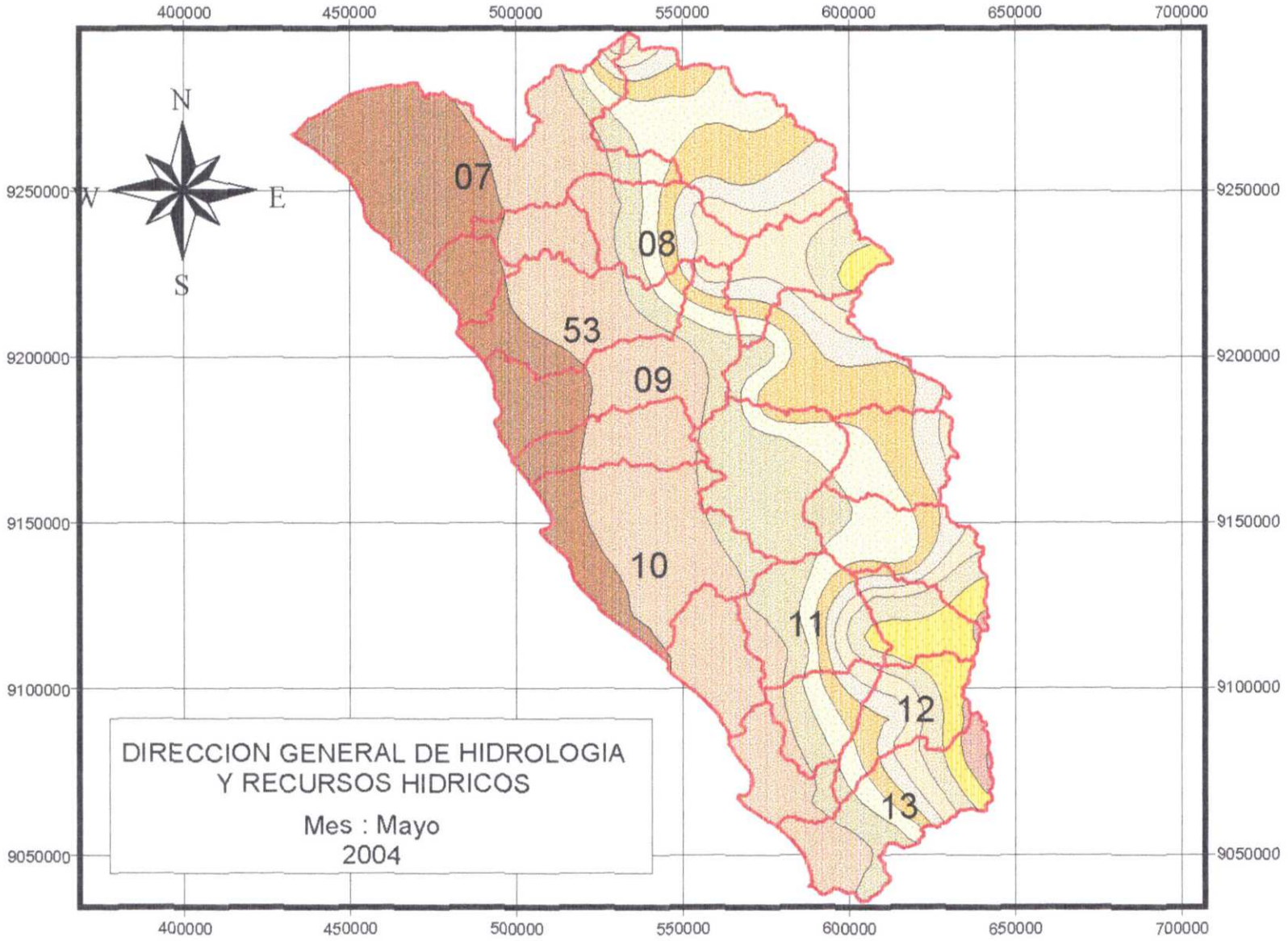

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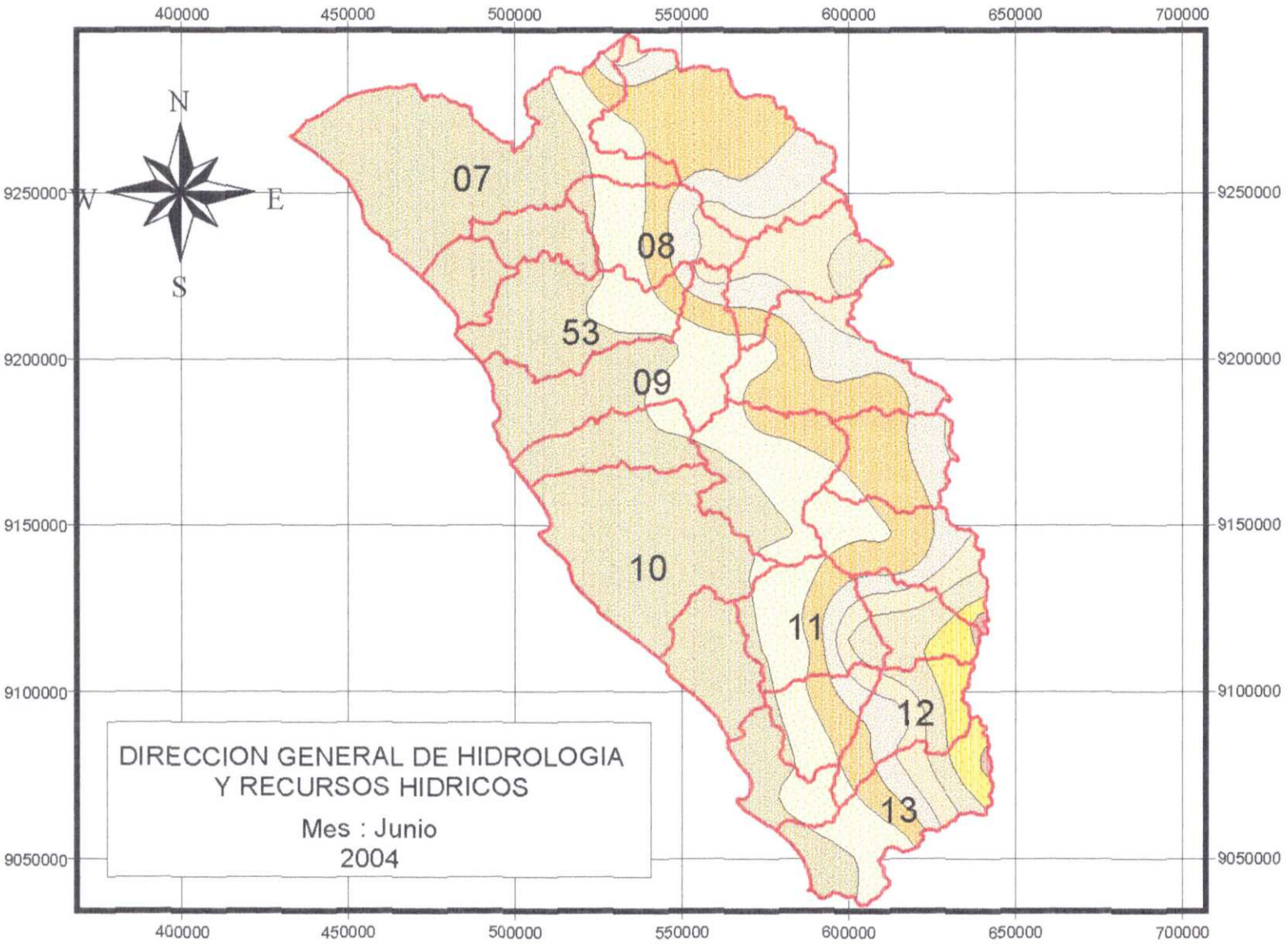

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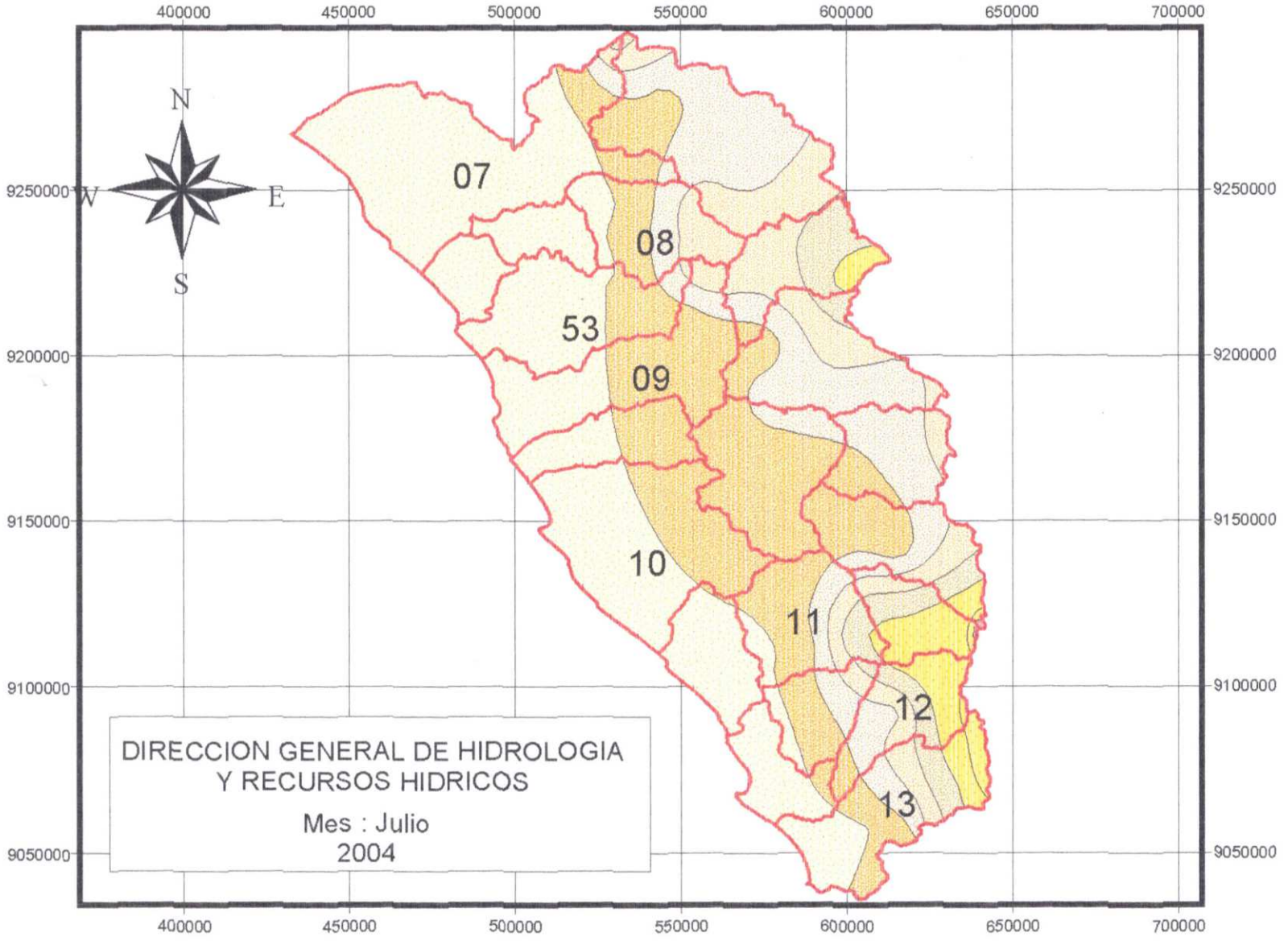

CUENCAS

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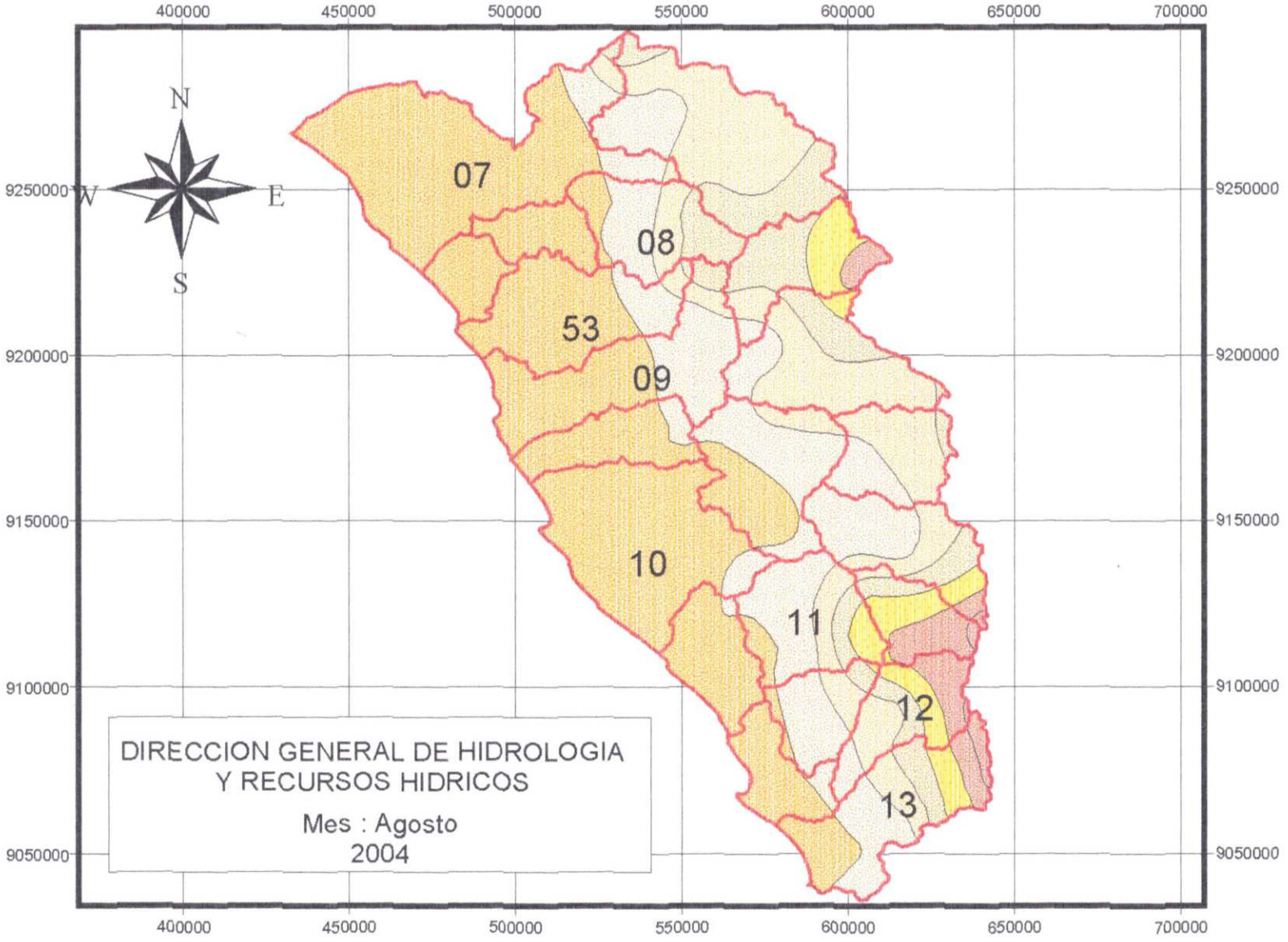

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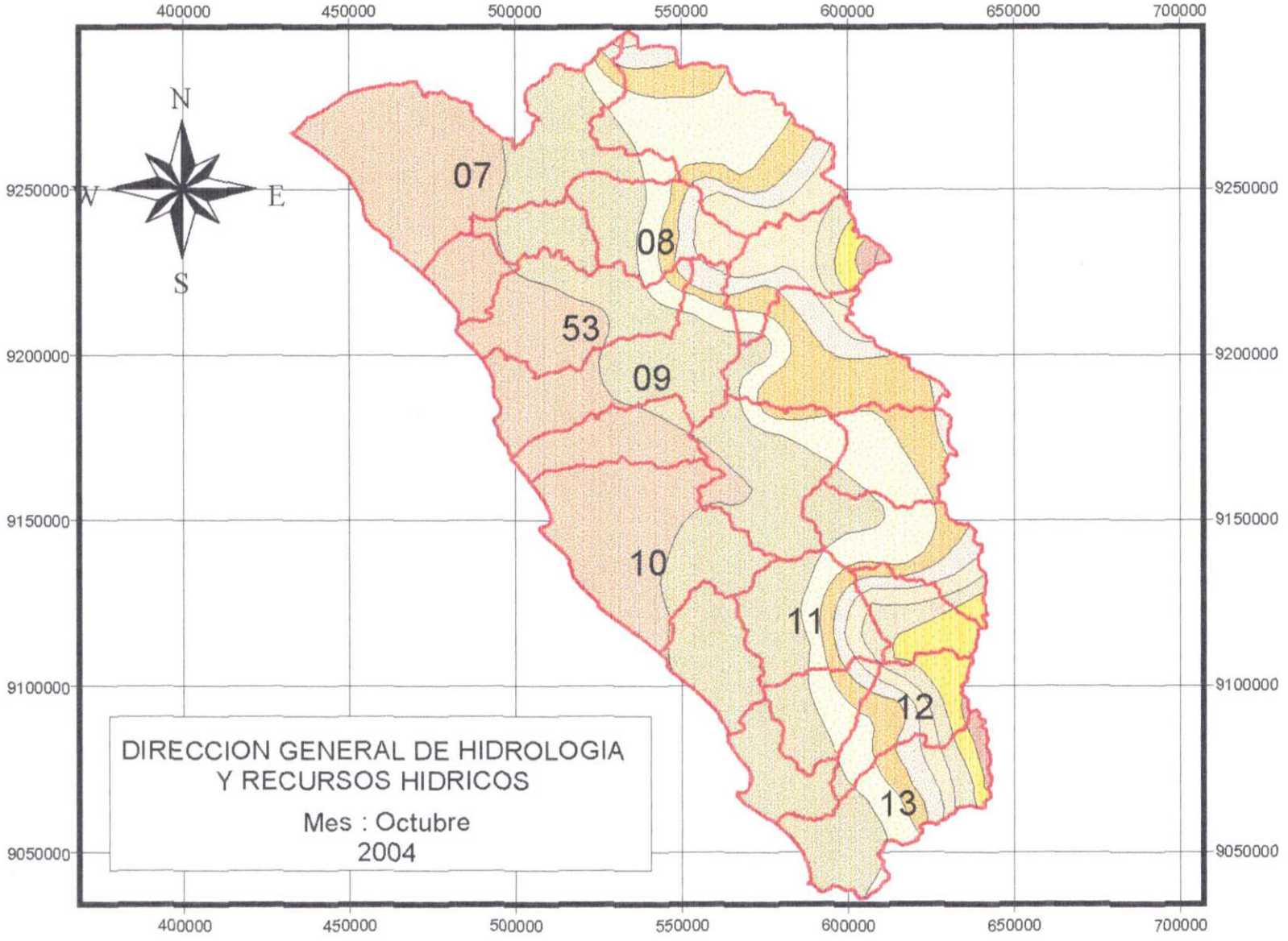

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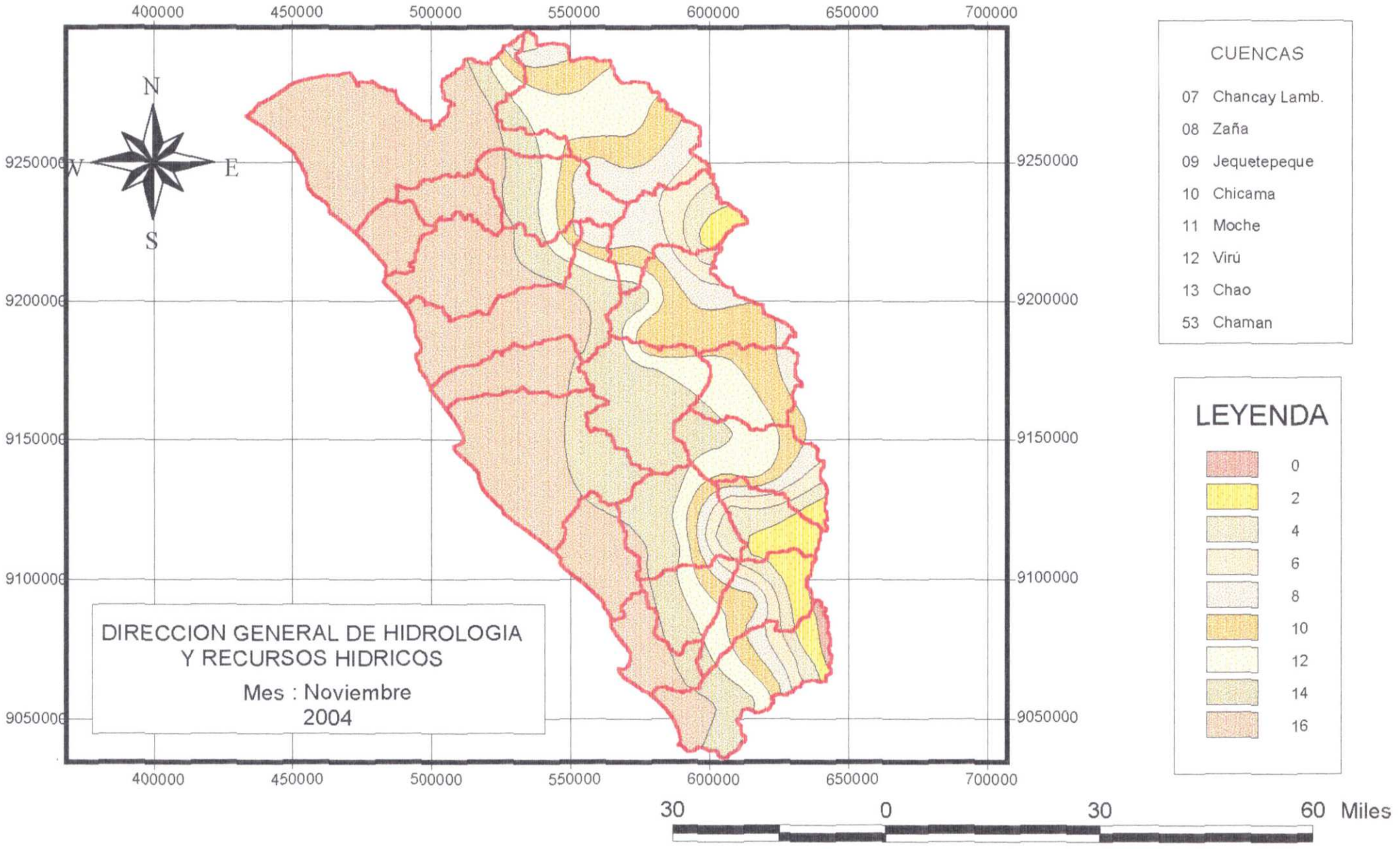

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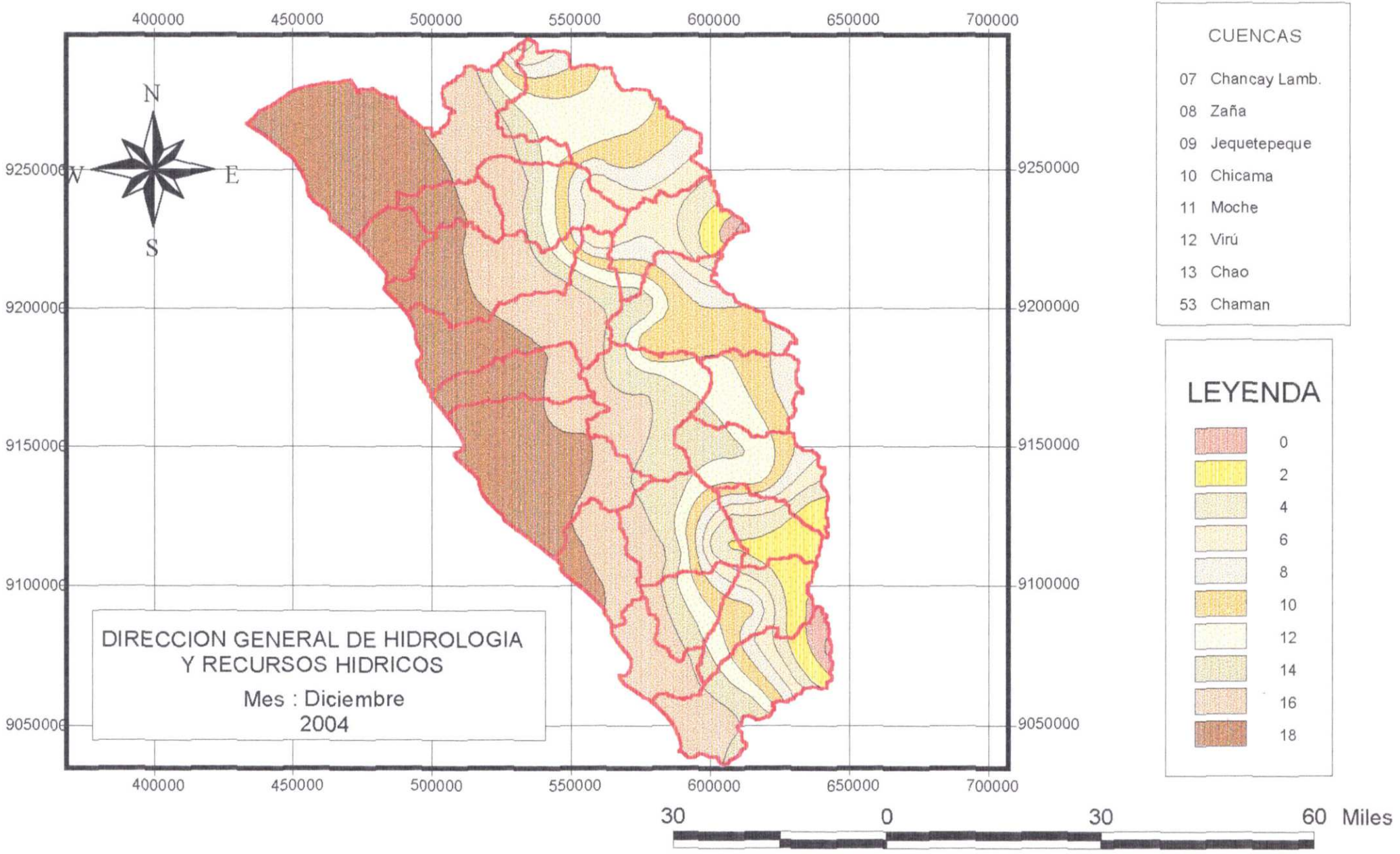

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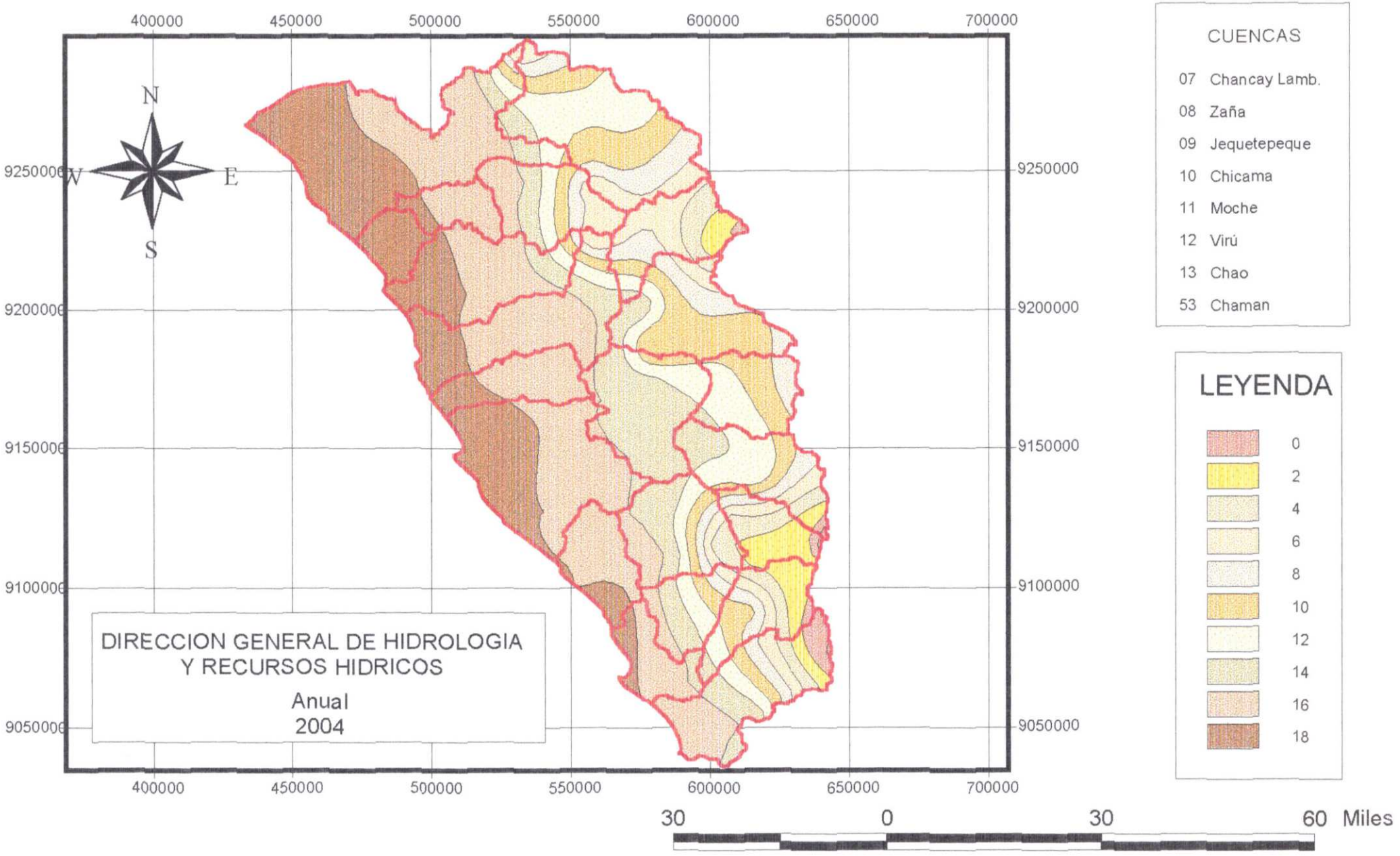

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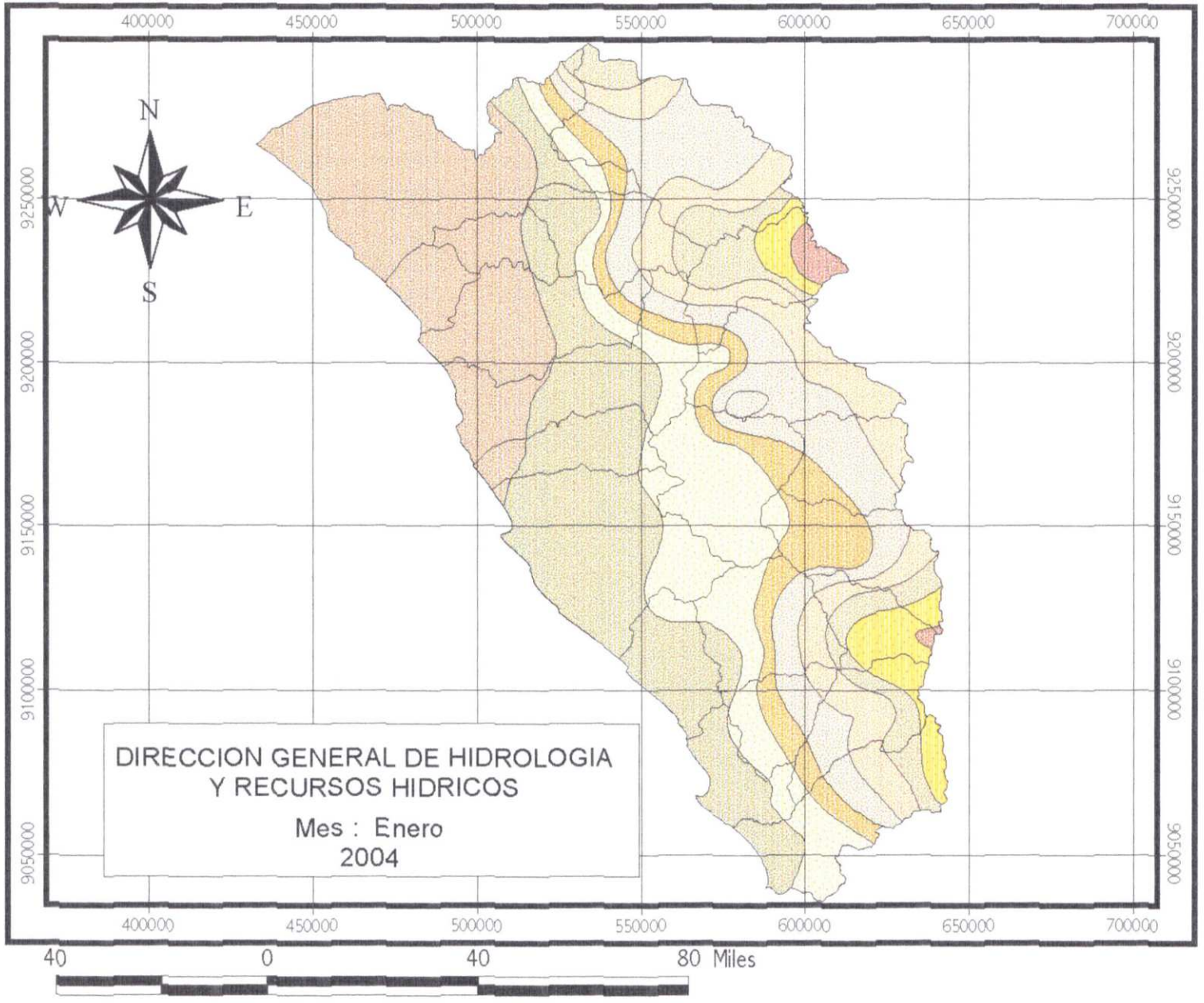

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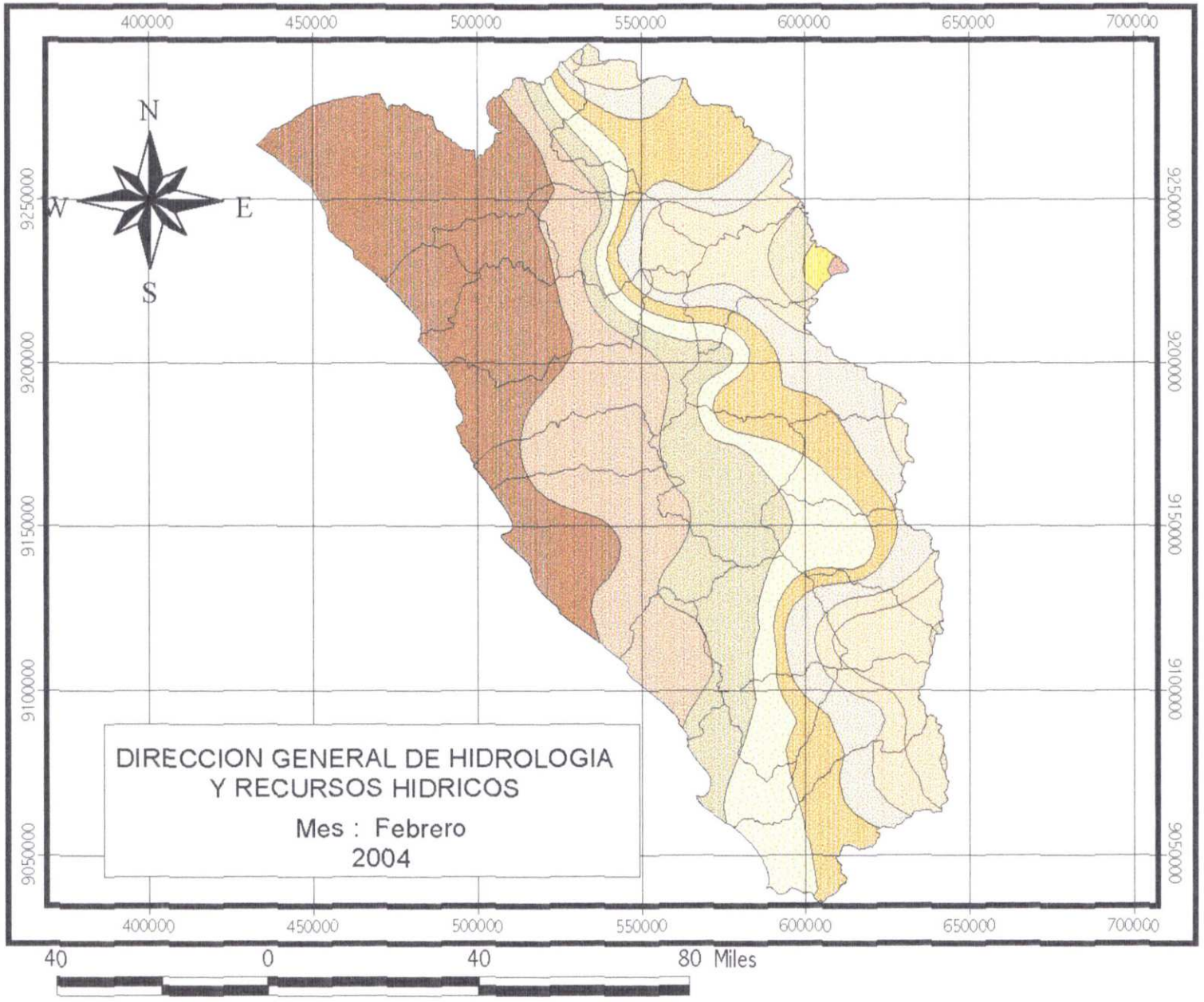

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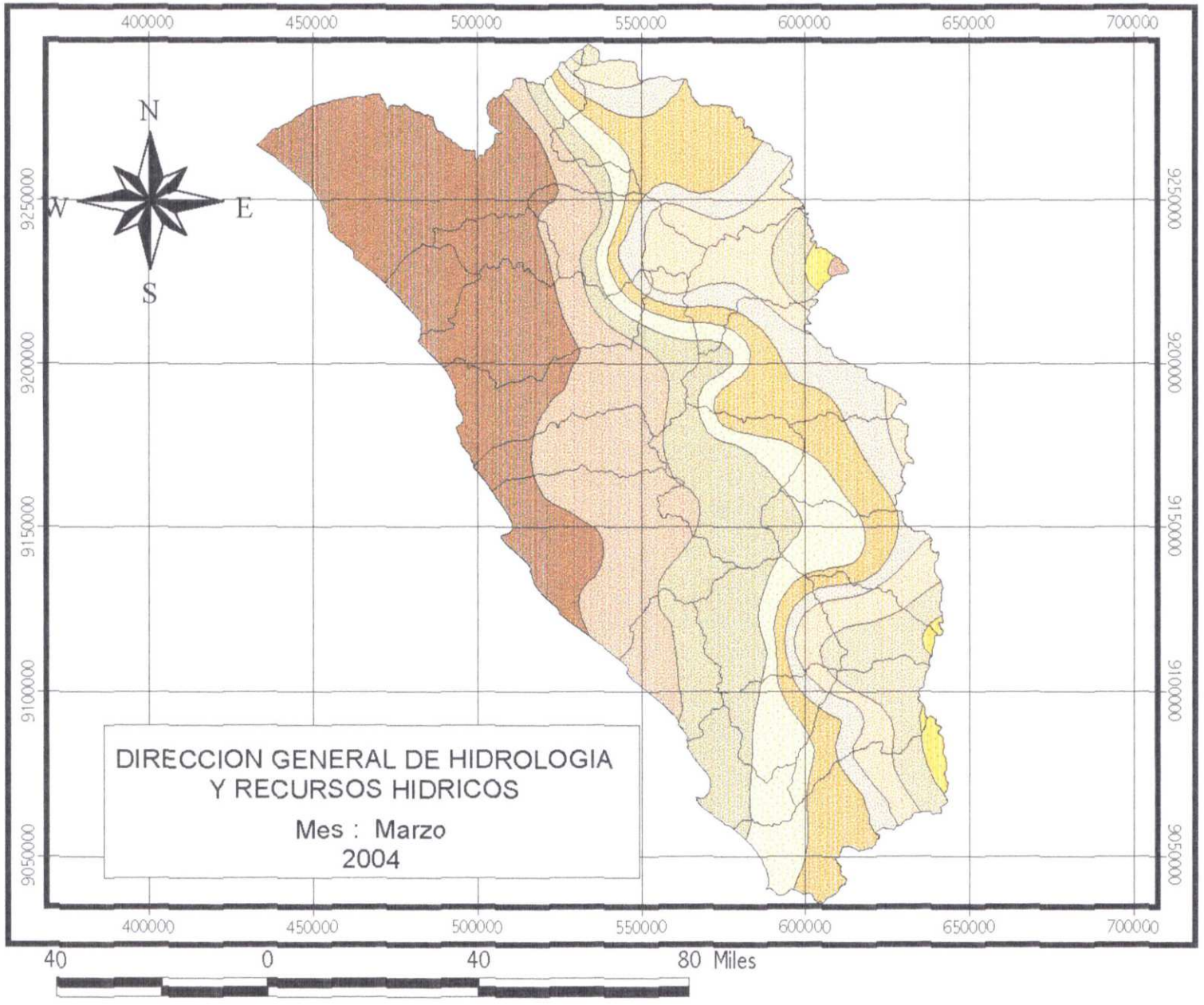

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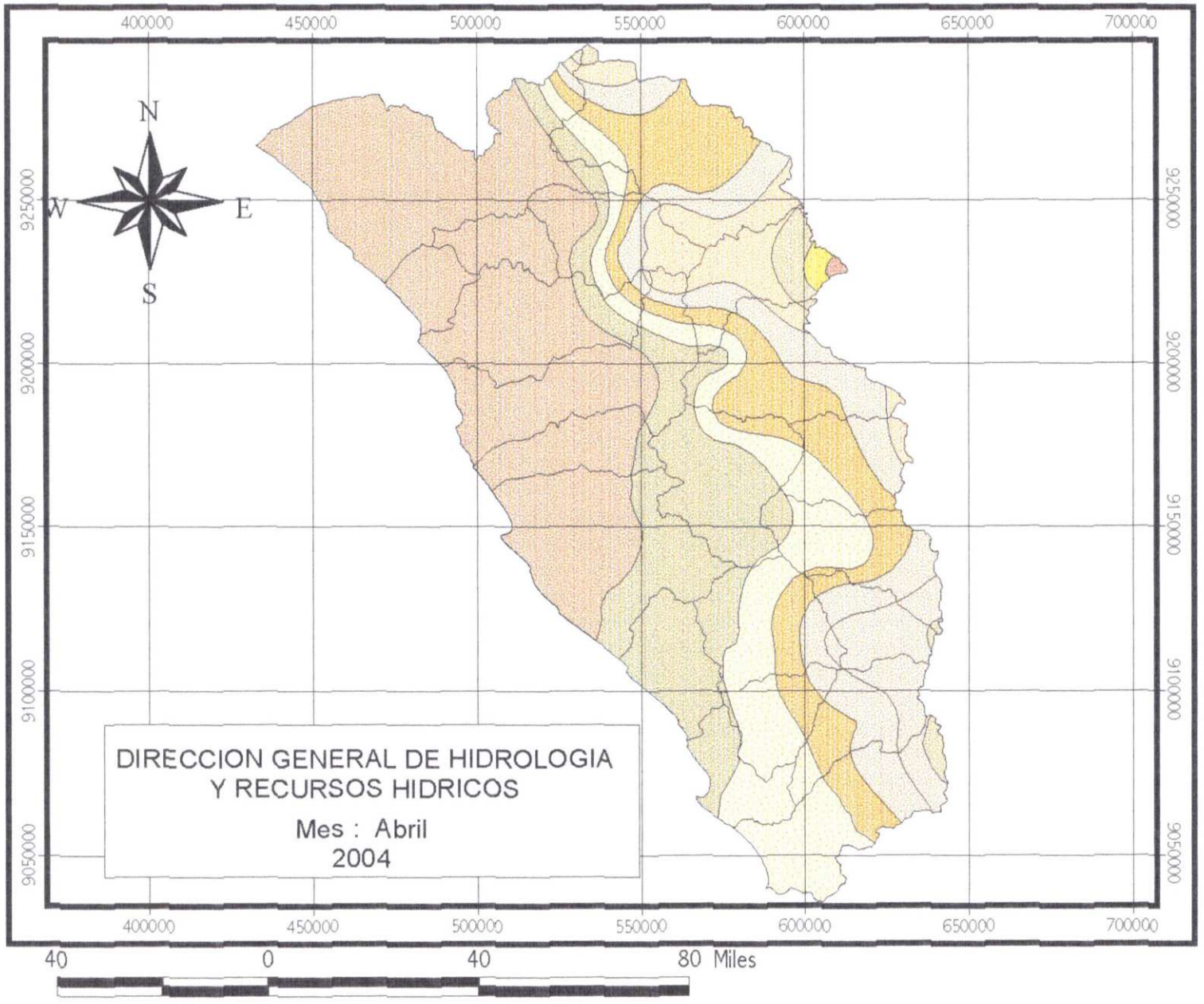

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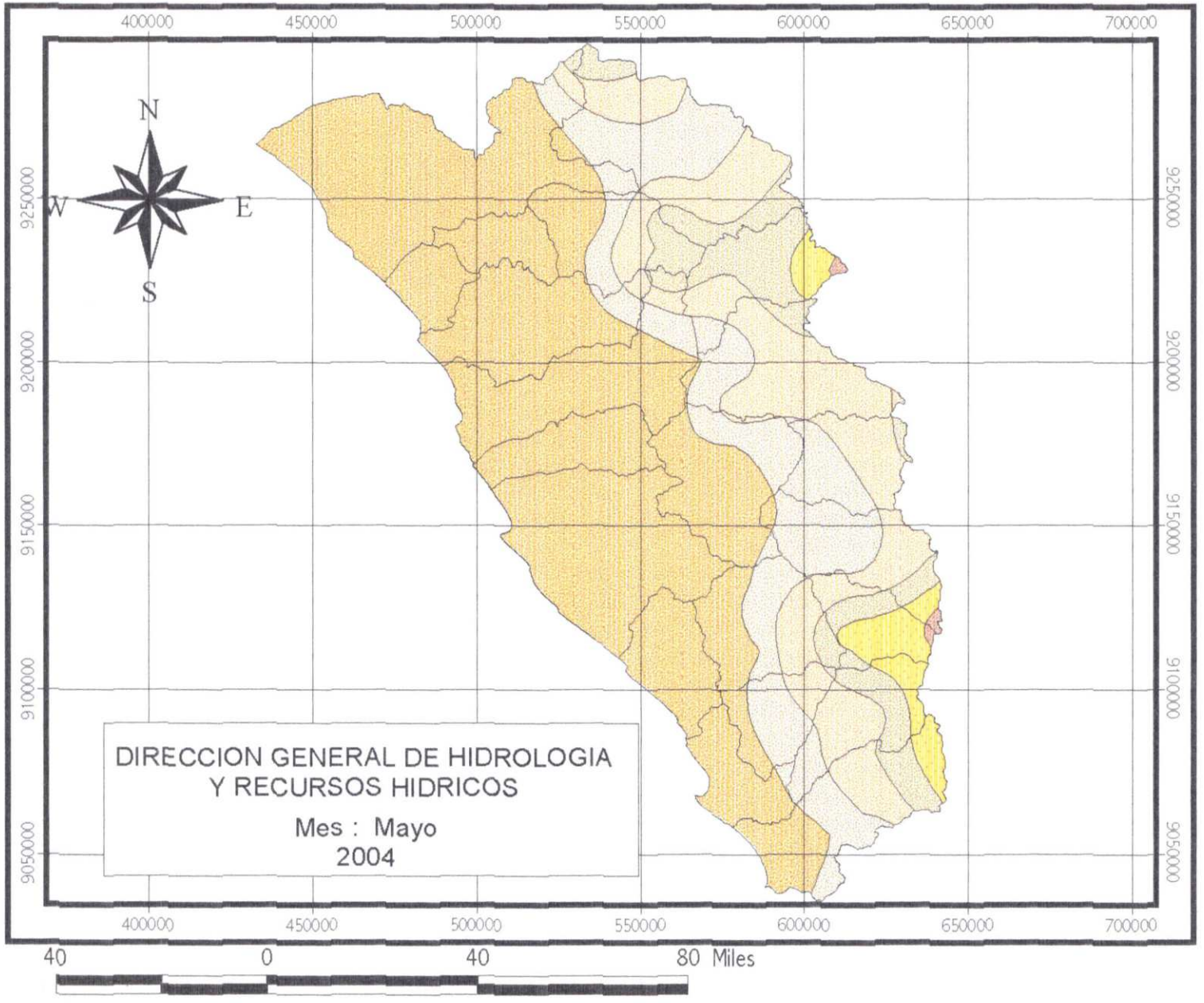

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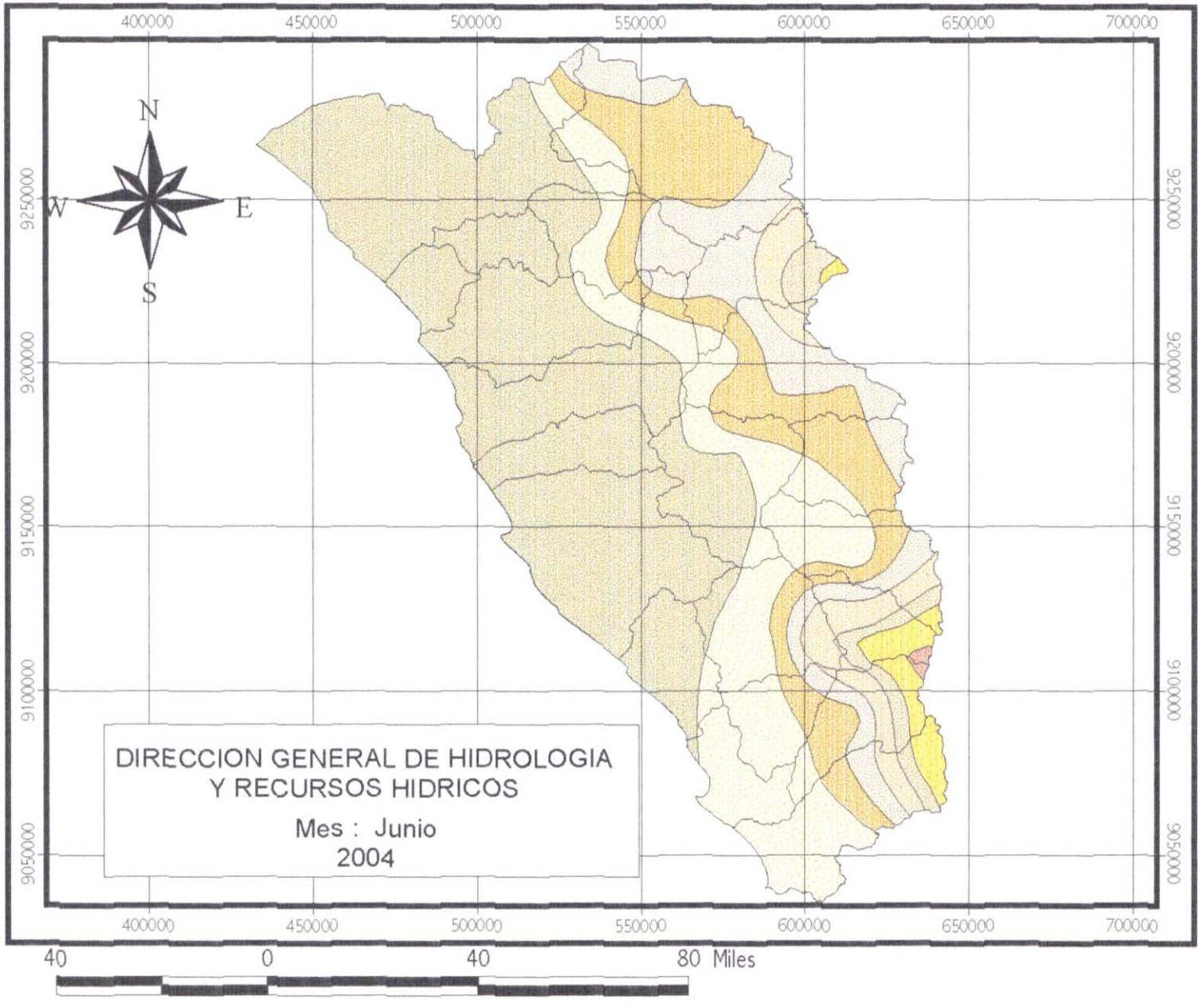

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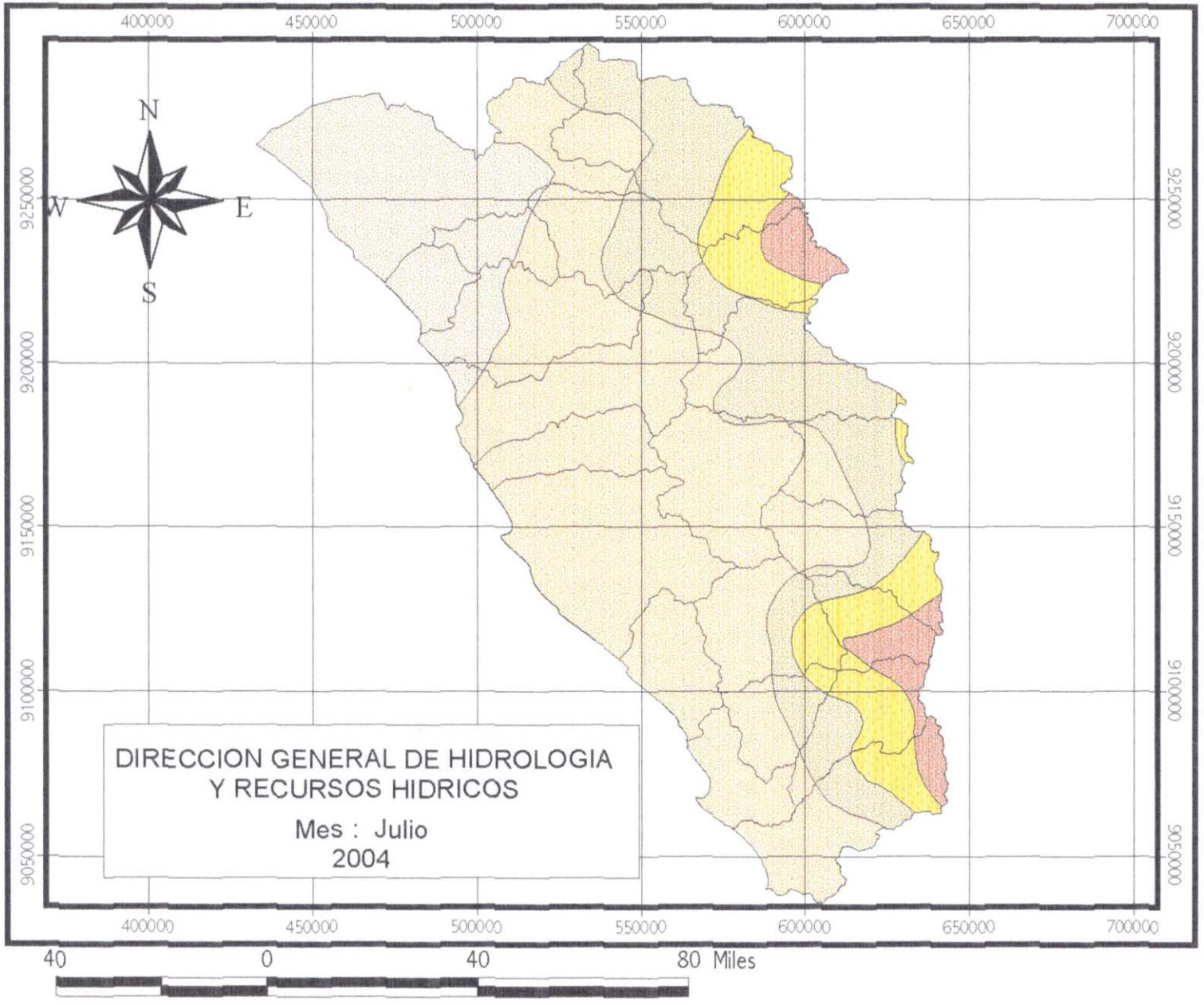

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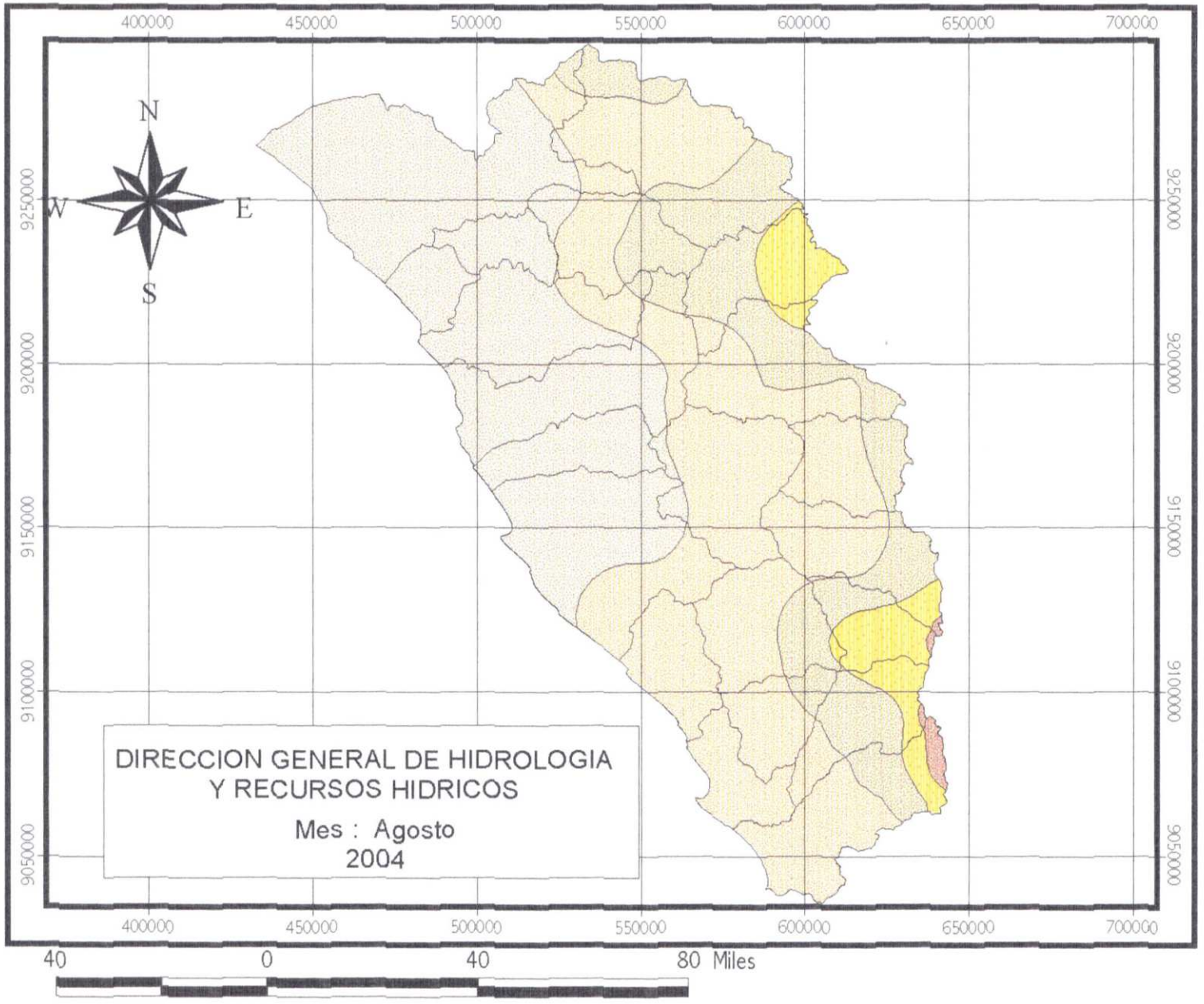

CUENCAS

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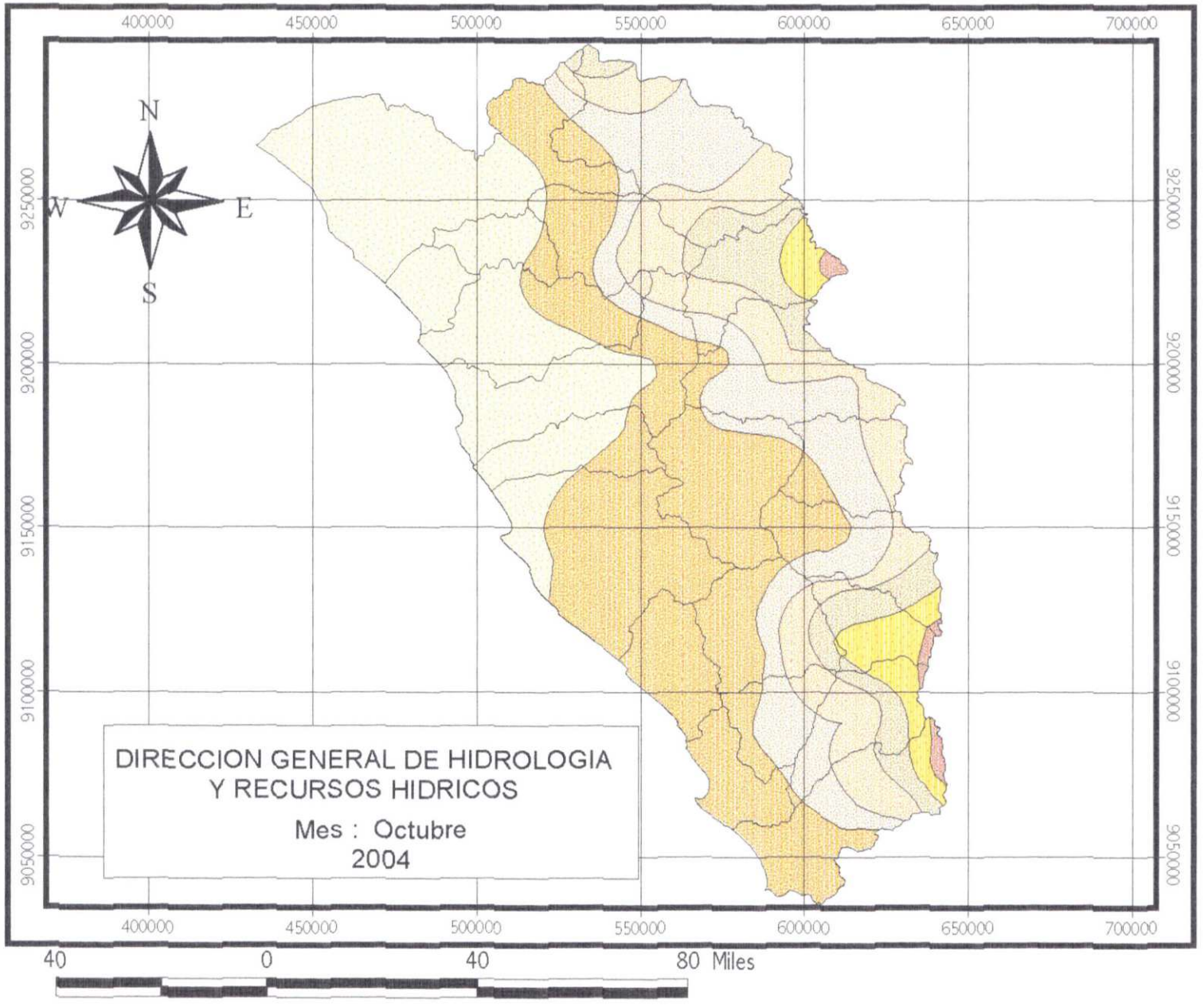

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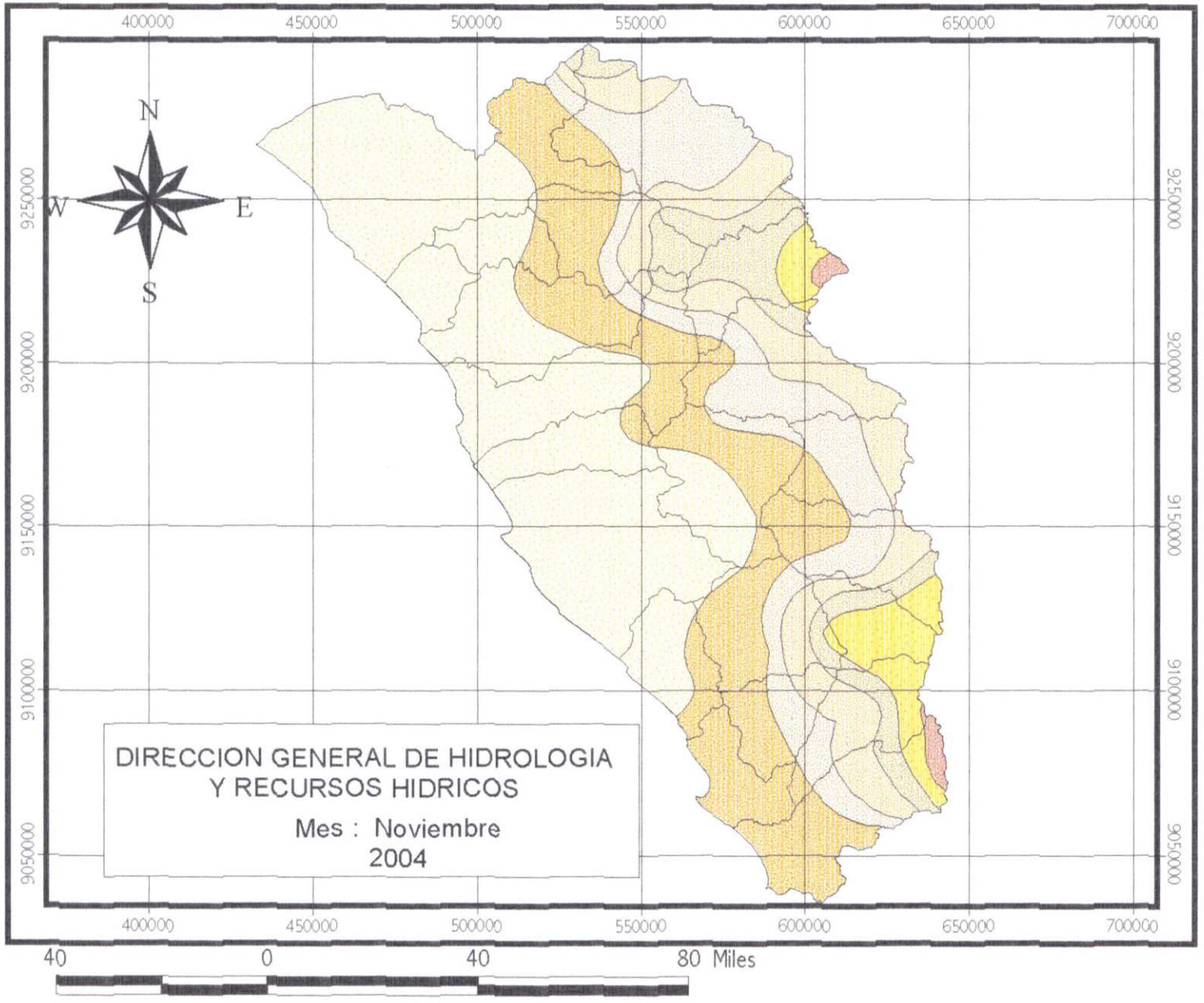

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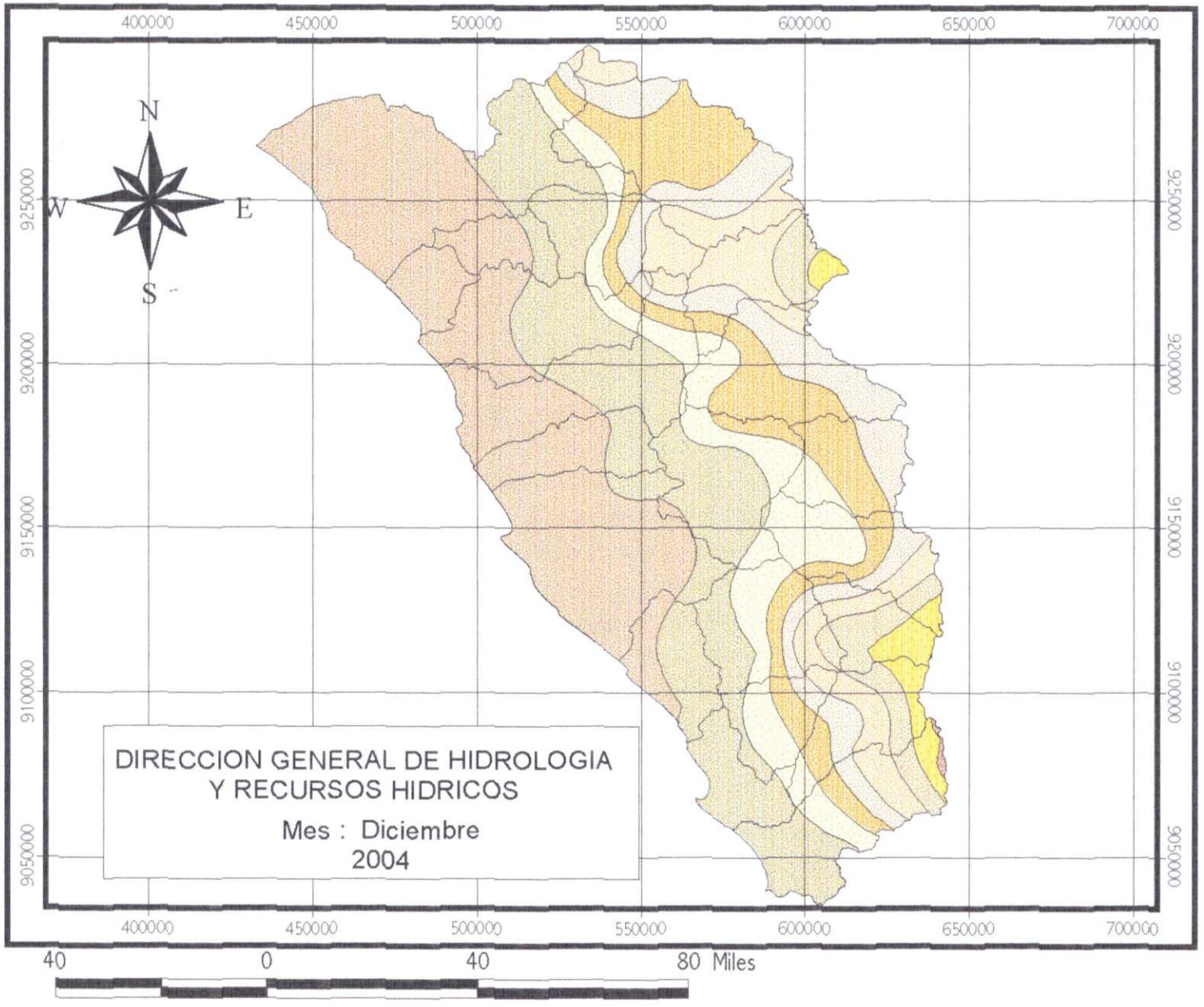

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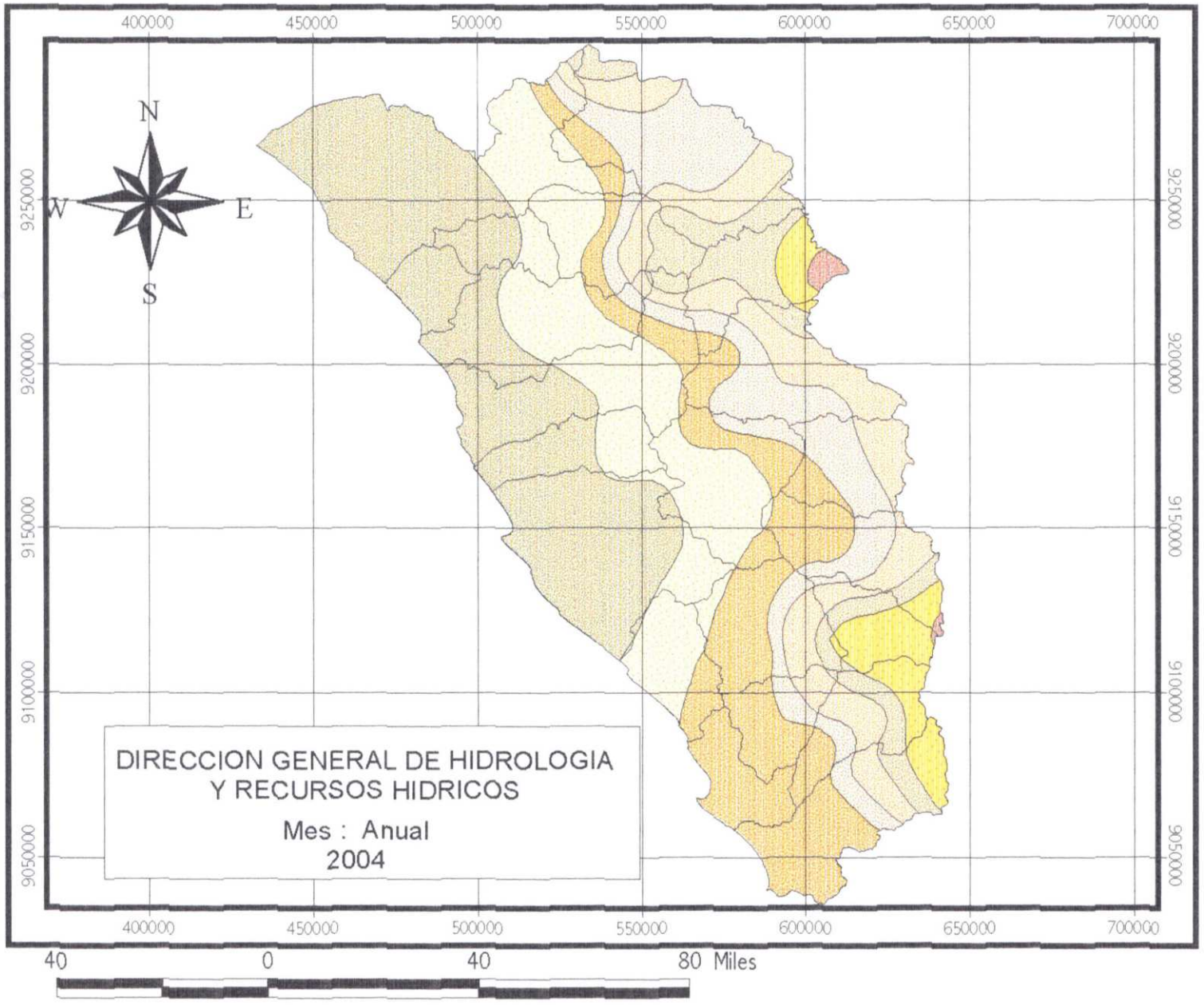


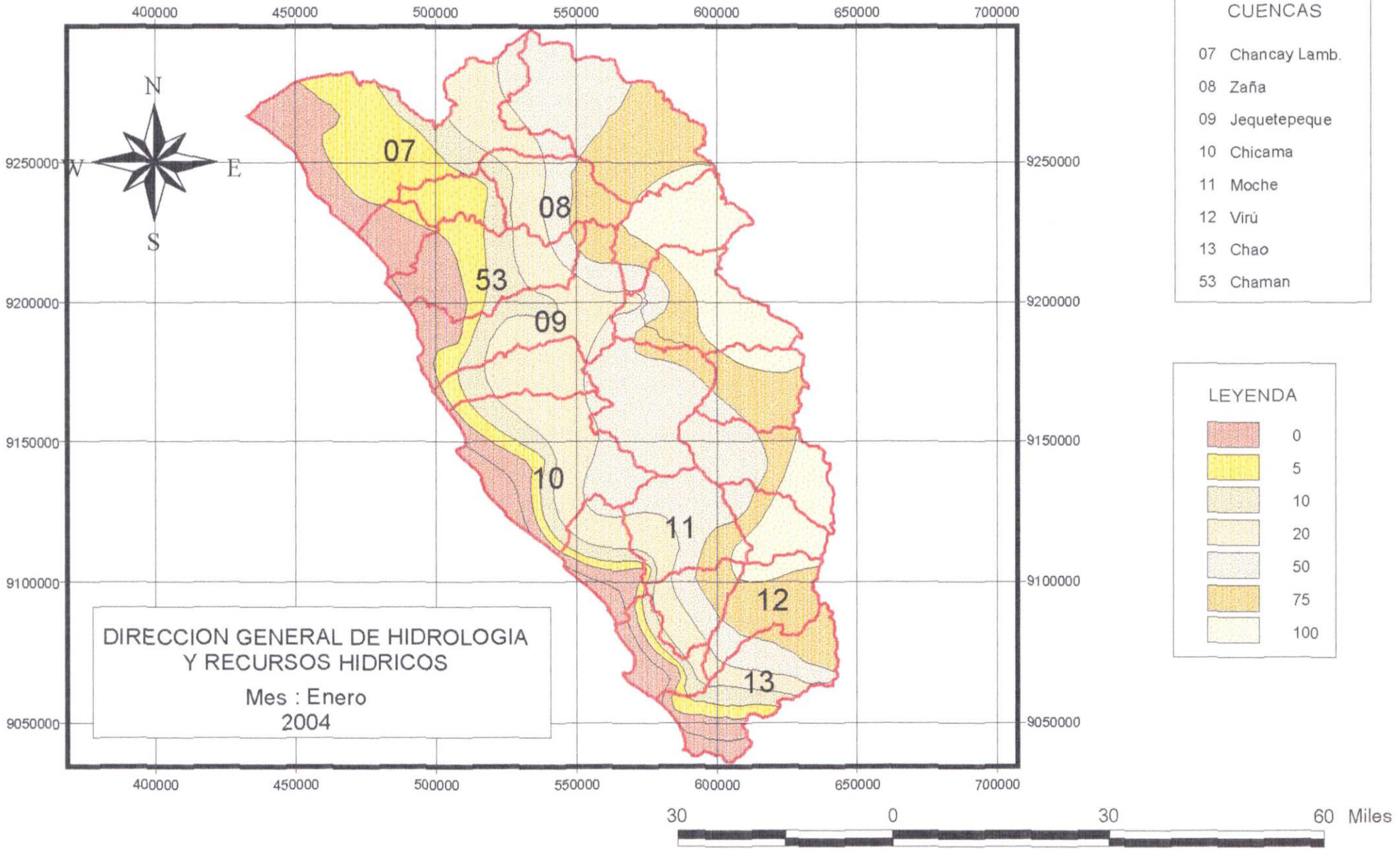
CUENCAS

07 Chancay Lamb.
08 Zaña
09 Jequetepeque
10 Chicama
11 Moche
12 Virú
13 Chao
53 Chaman

LEYENDA

8
10
12
14
16
18
20
22

PRECIPITACION MEDIA



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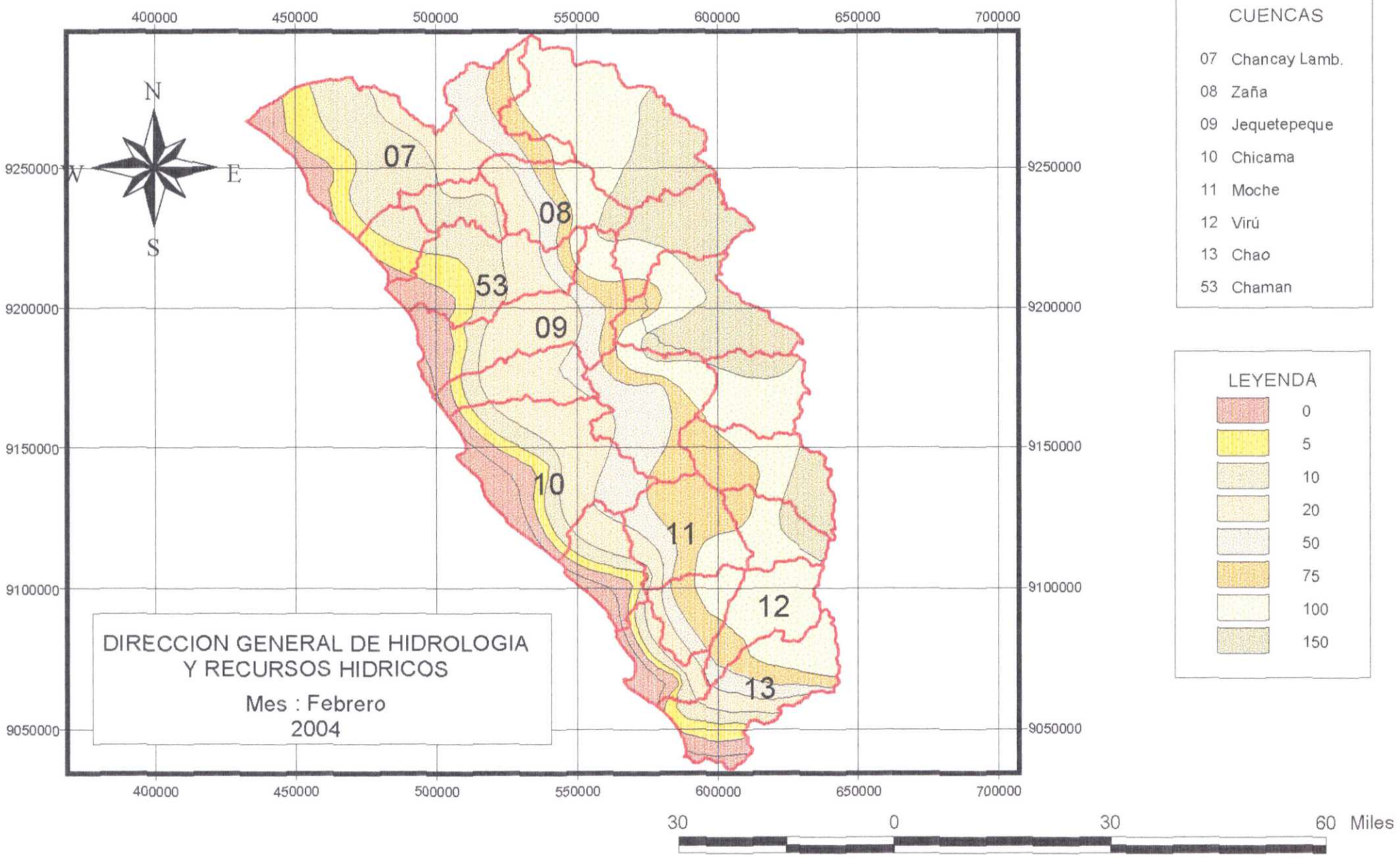

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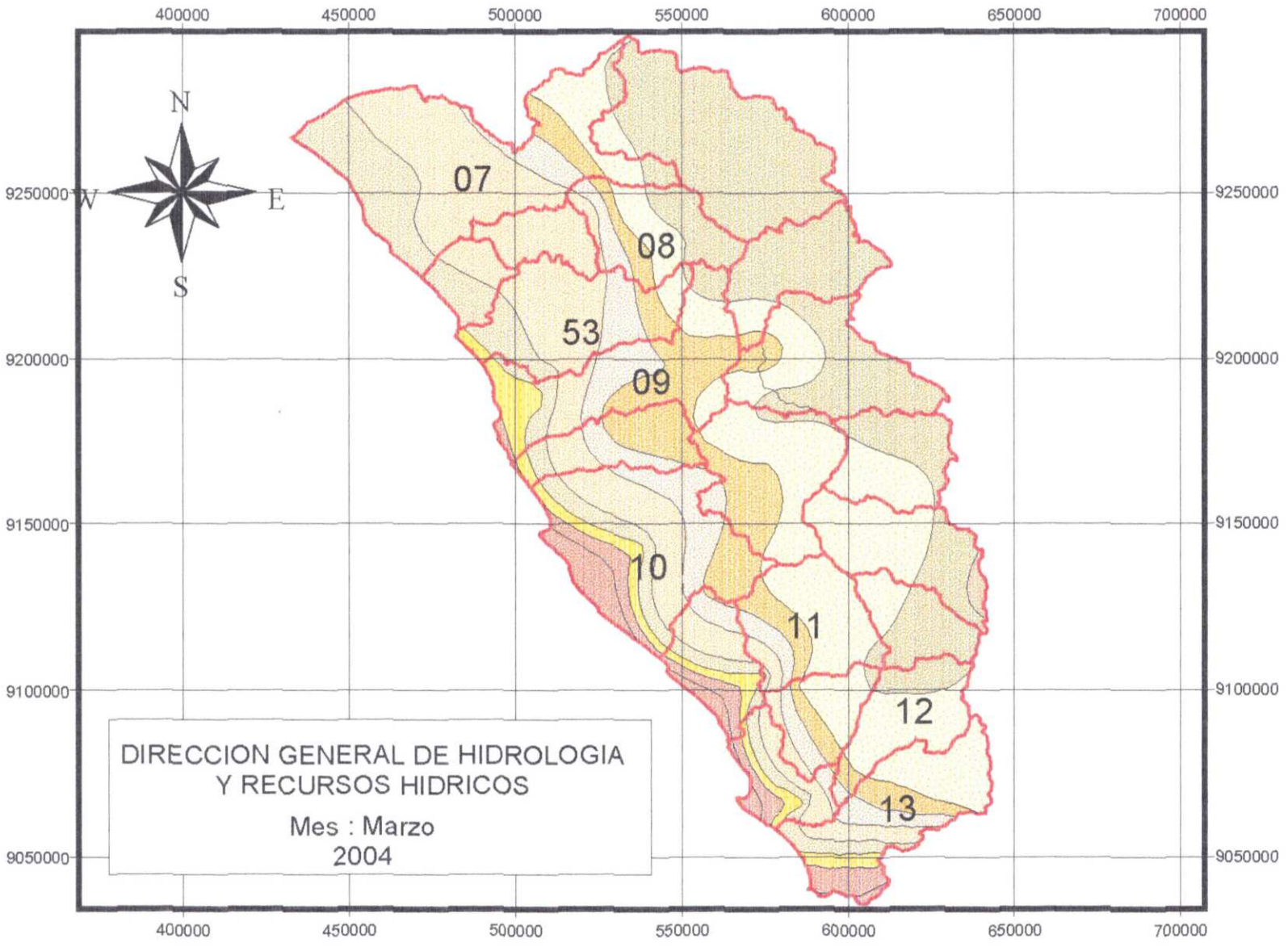


CUENCAS

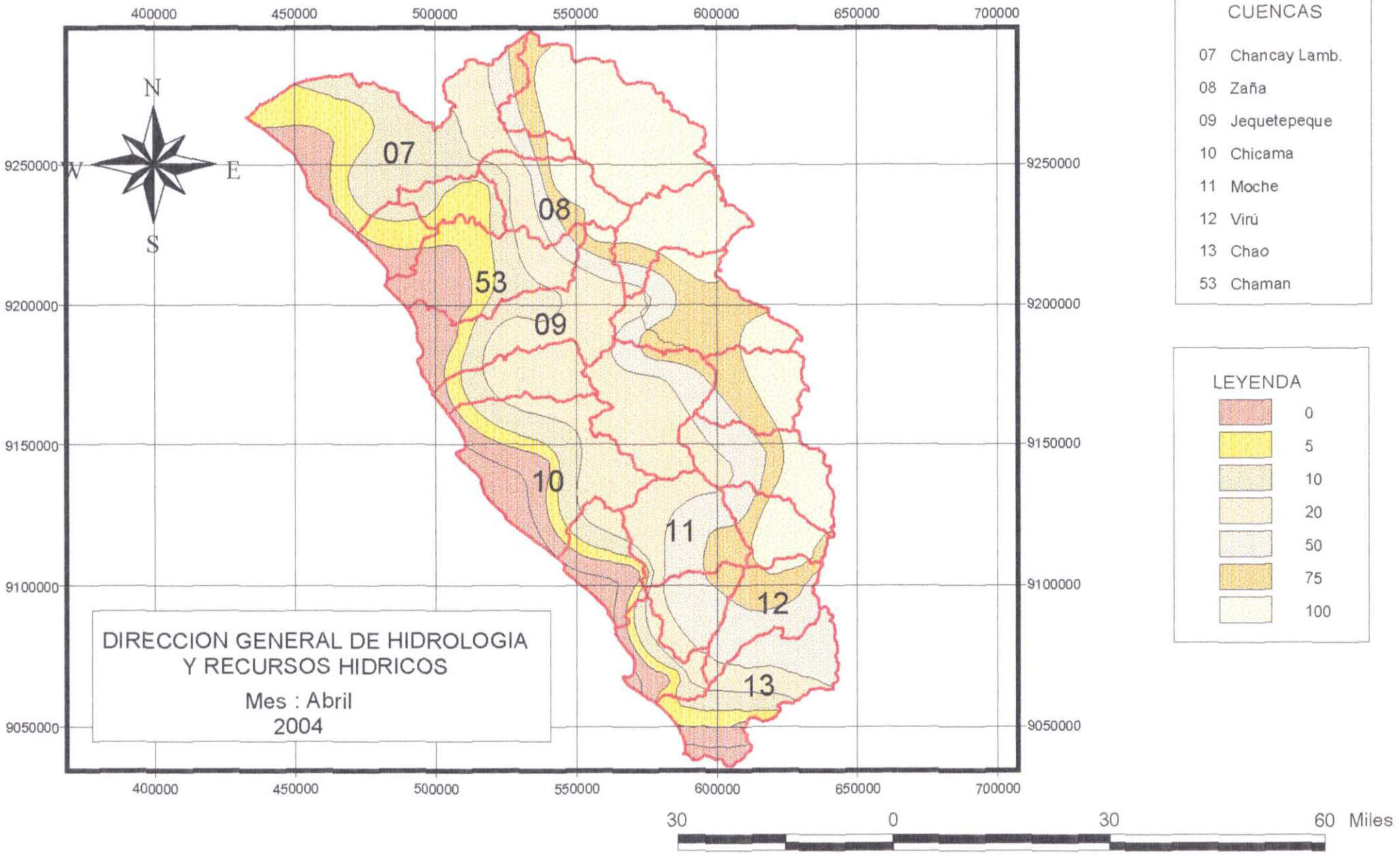
07	Chancay Lamb.
08	Zaña
09	Jequetepeque
10	Chicama
11	Moche
12	Virú
13	Chao
53	Chaman

LEYENDA

0
5
10
20
50
75
100
150
200

30 0 30 60 Miles

PRECIPITACION MEDIA



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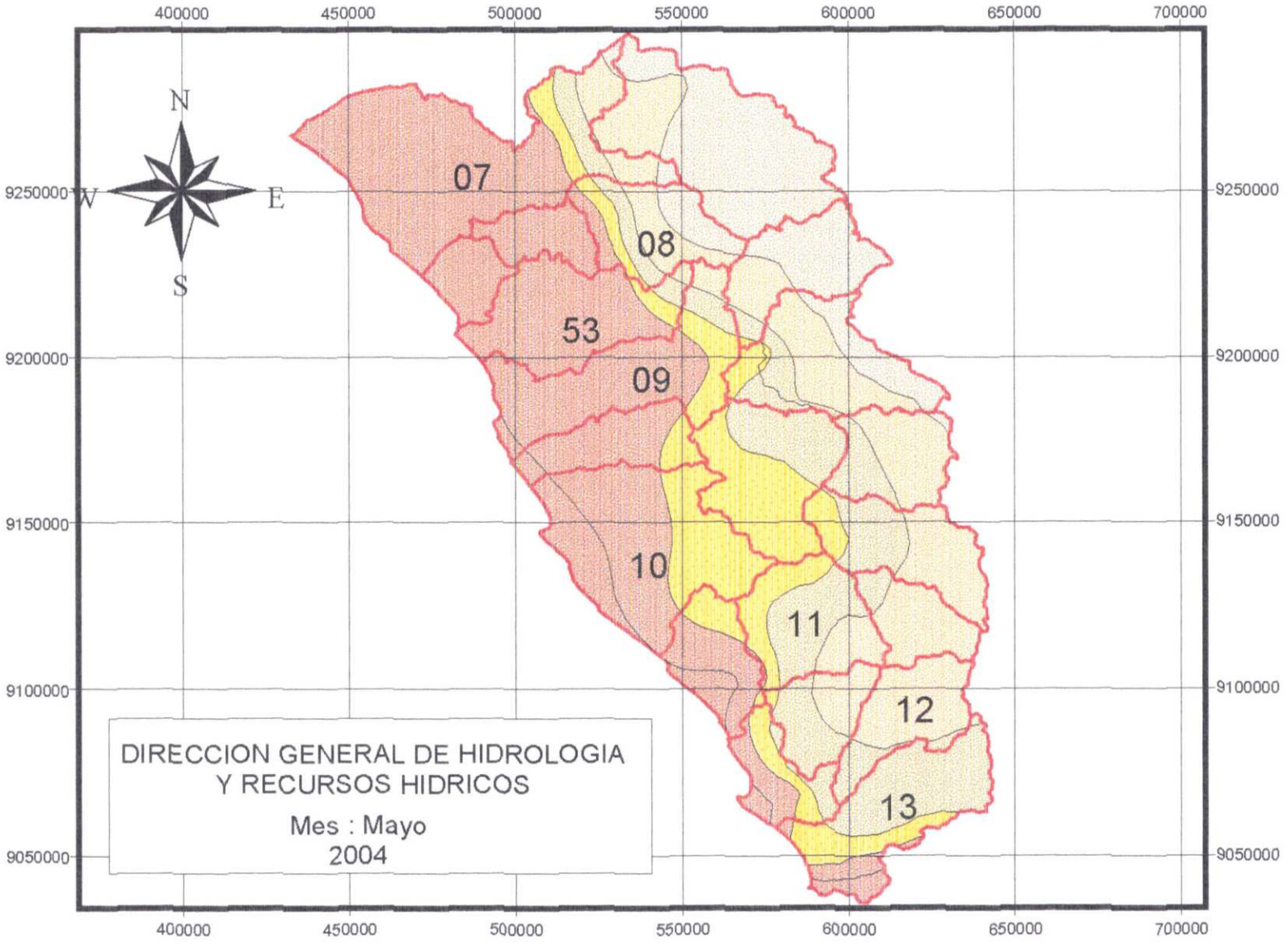


CUENCAS

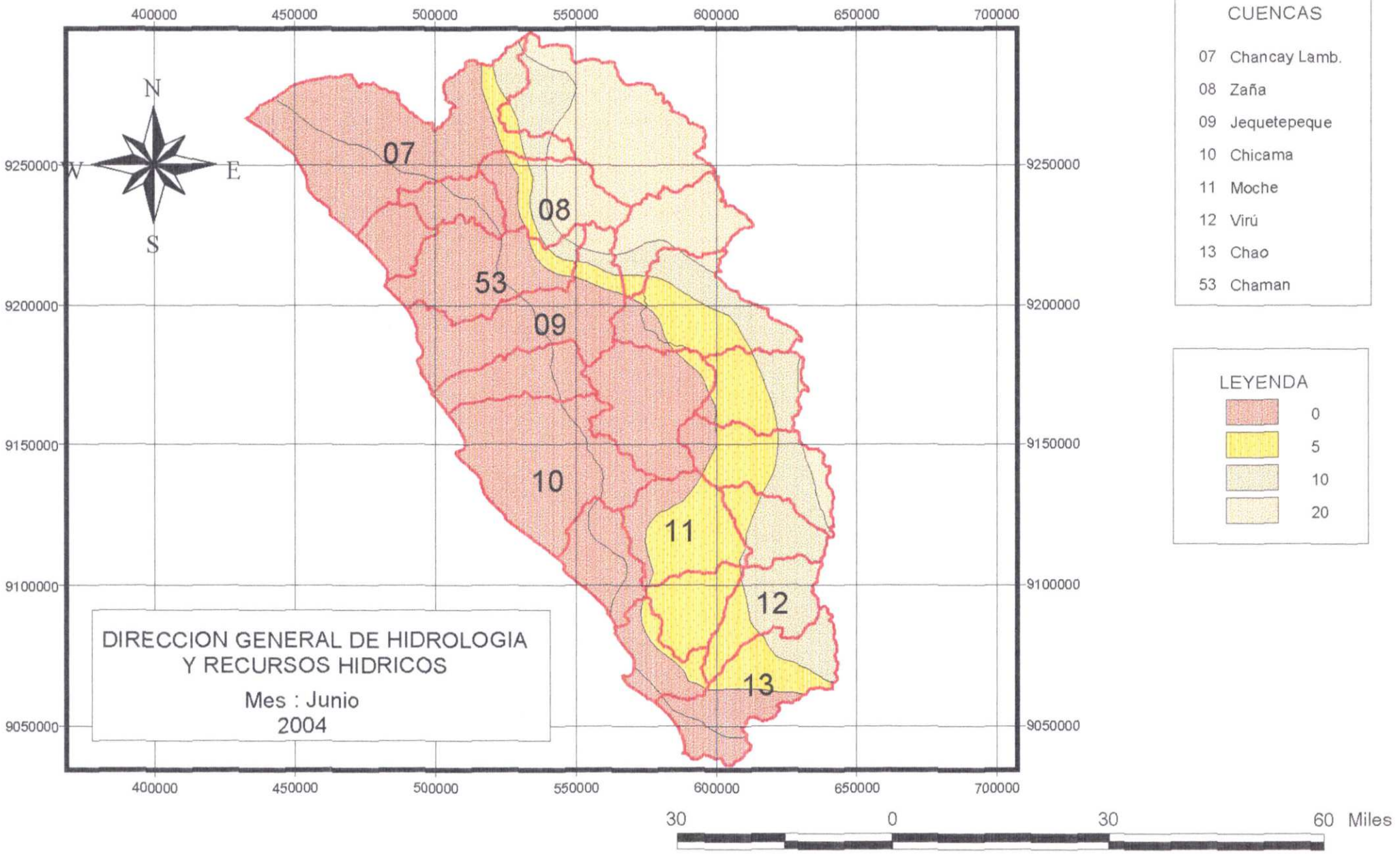
07	Chancay Lamb.
08	Zaña
09	Jequetepeque
10	Chicama
11	Moche
12	Virú
13	Chao
53	Chaman

LEYENDA

	0
	5
	10
	20
	50

30 0 30 60 Miles

PRECIPITACION MEDIA



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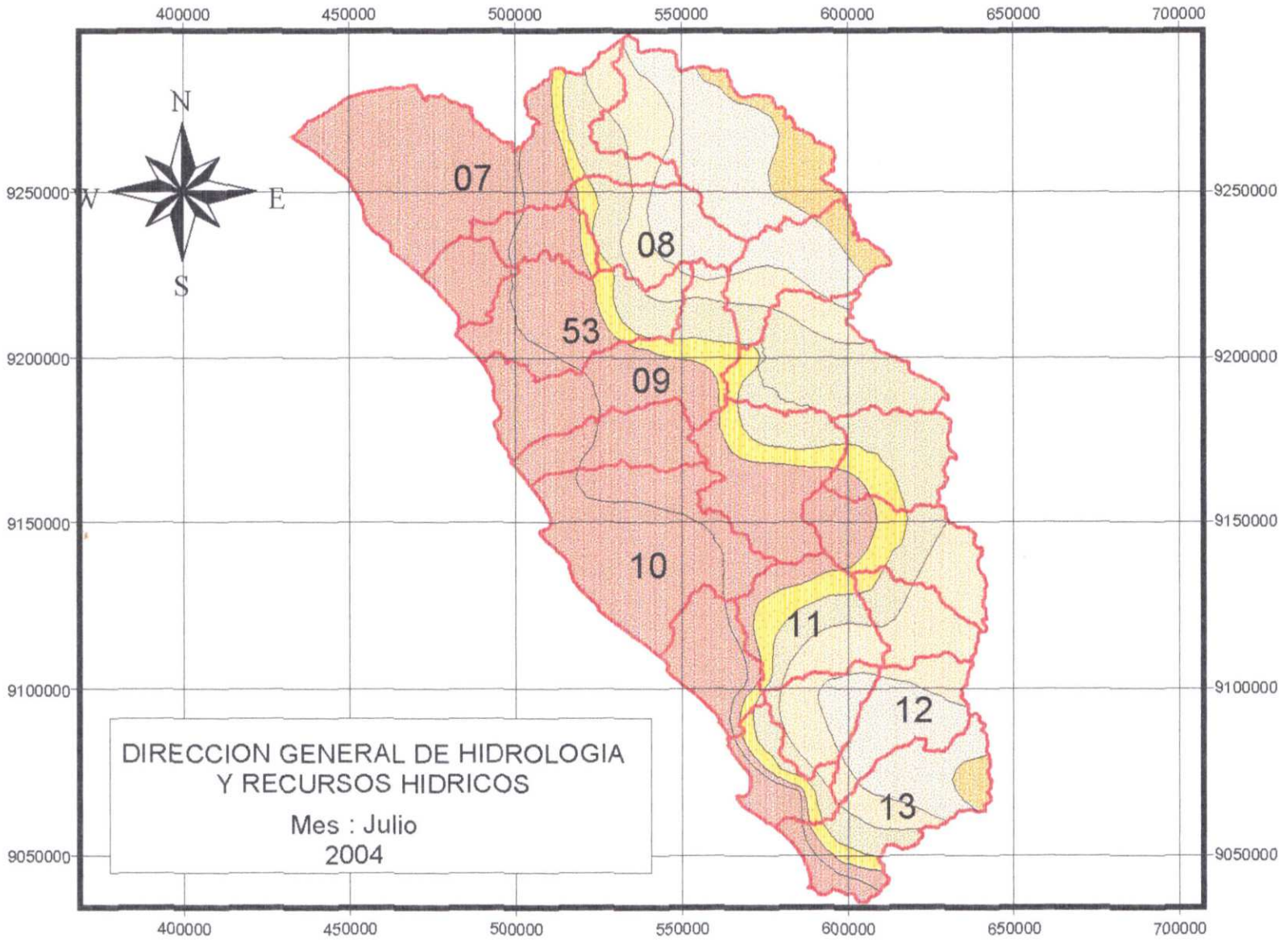


CUENCAS

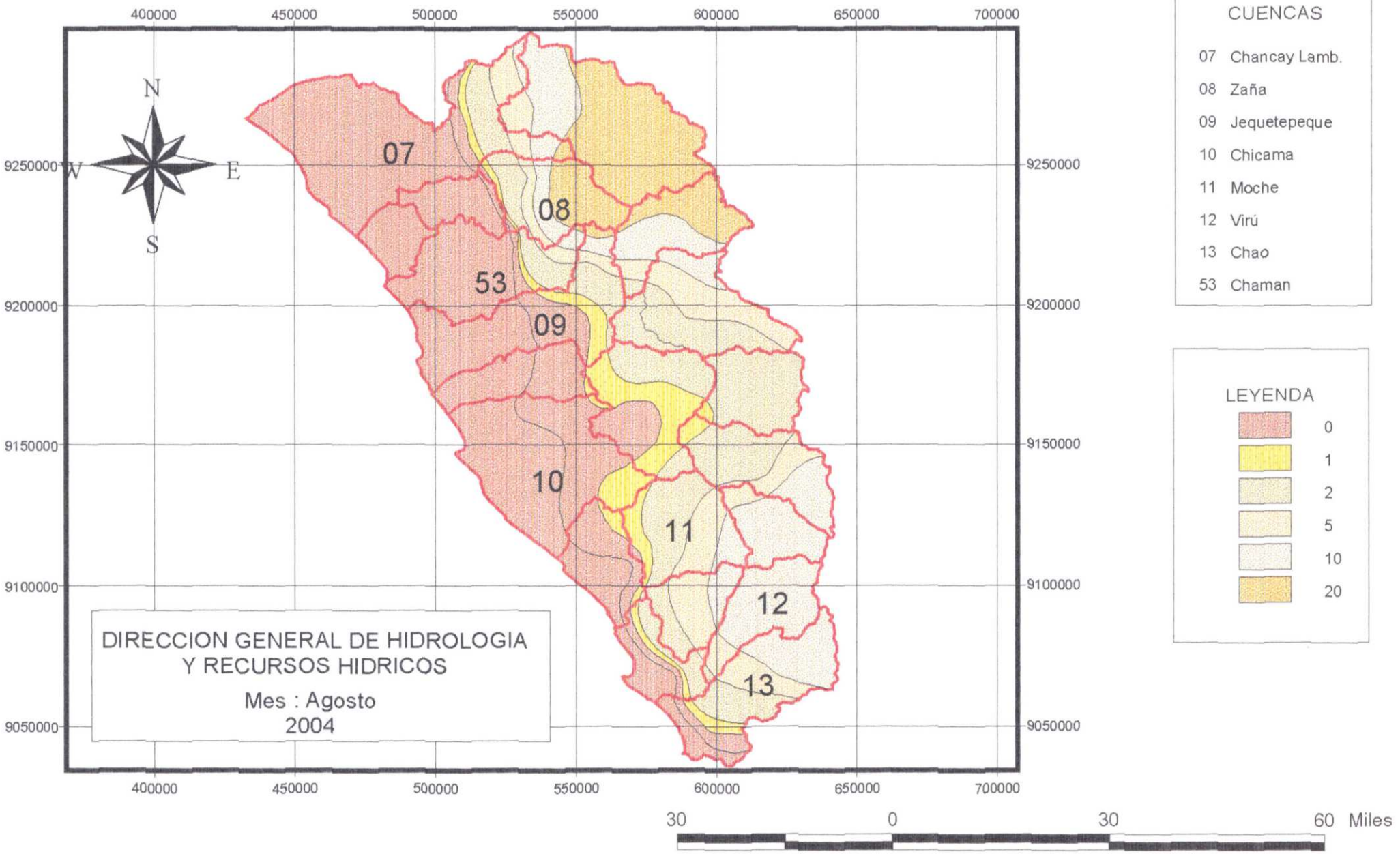
07	Chancay Lamb.
08	Zaña
09	Jequetepeque
10	Chicama
11	Moche
12	Virú
13	Chao
53	Chaman

LEYENDA

	0
	0.5
	1
	5
	10
	20

30 0 30 60 Miles

PRECIPITACION MEDIA



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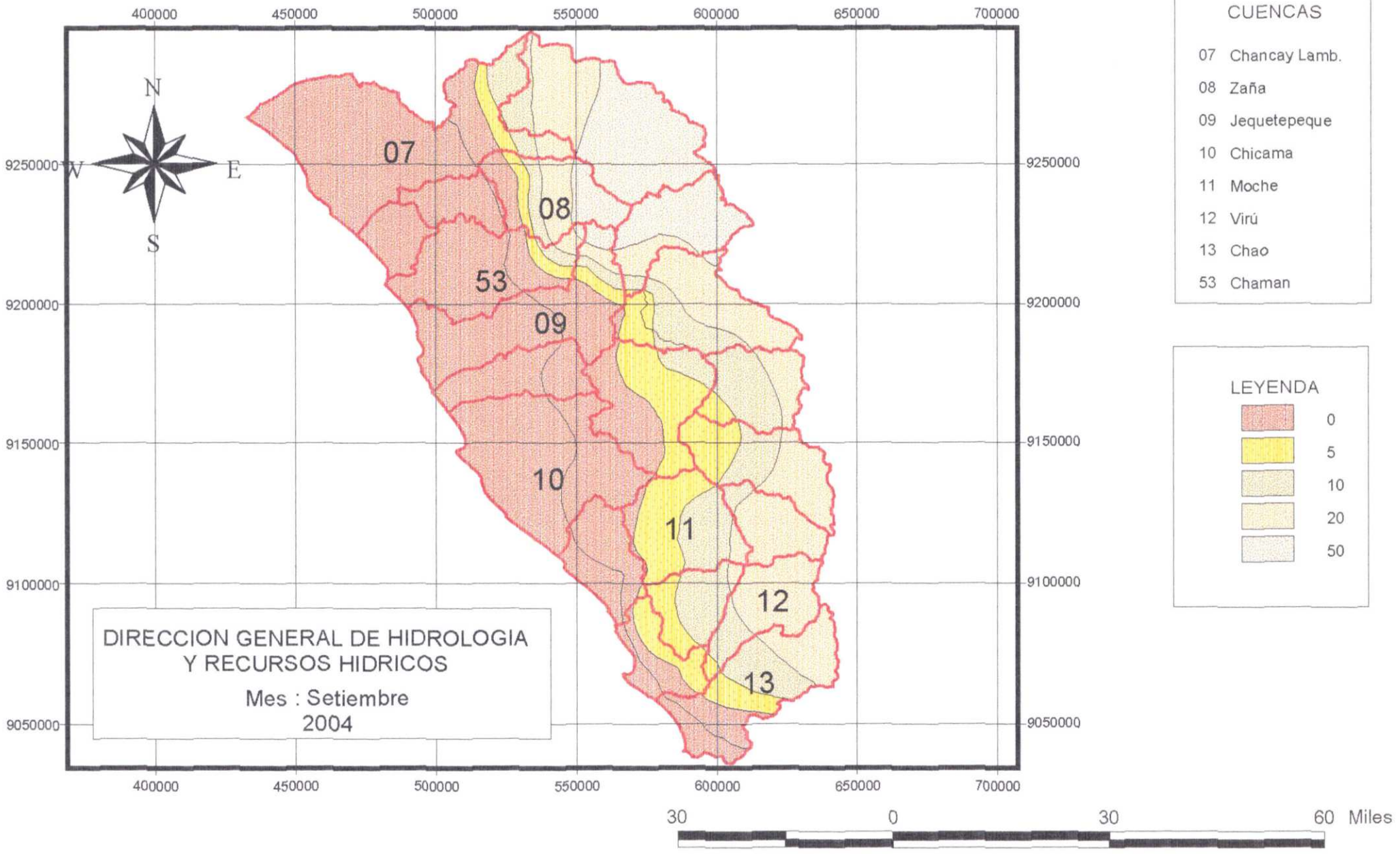

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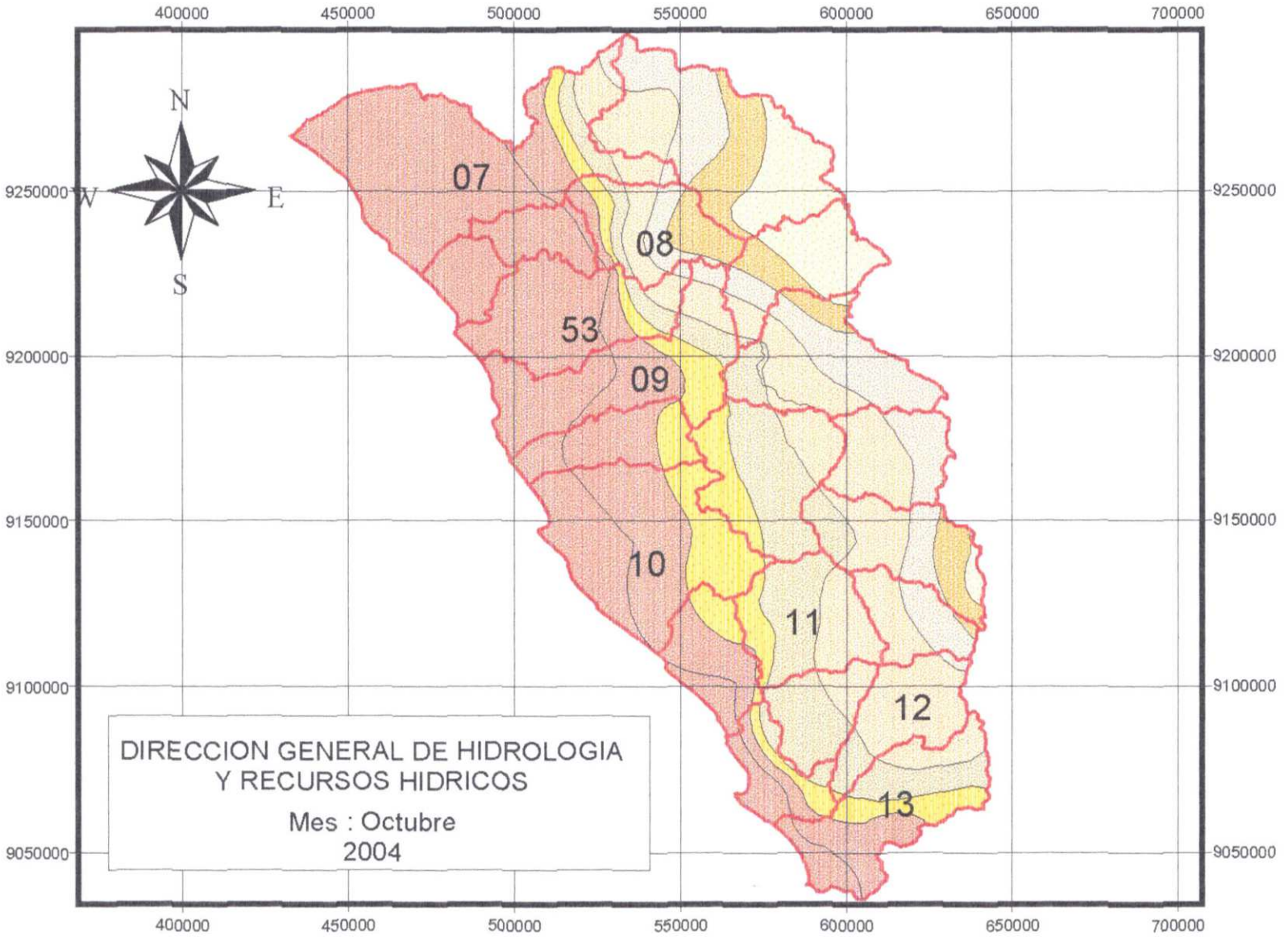


CUENCAS

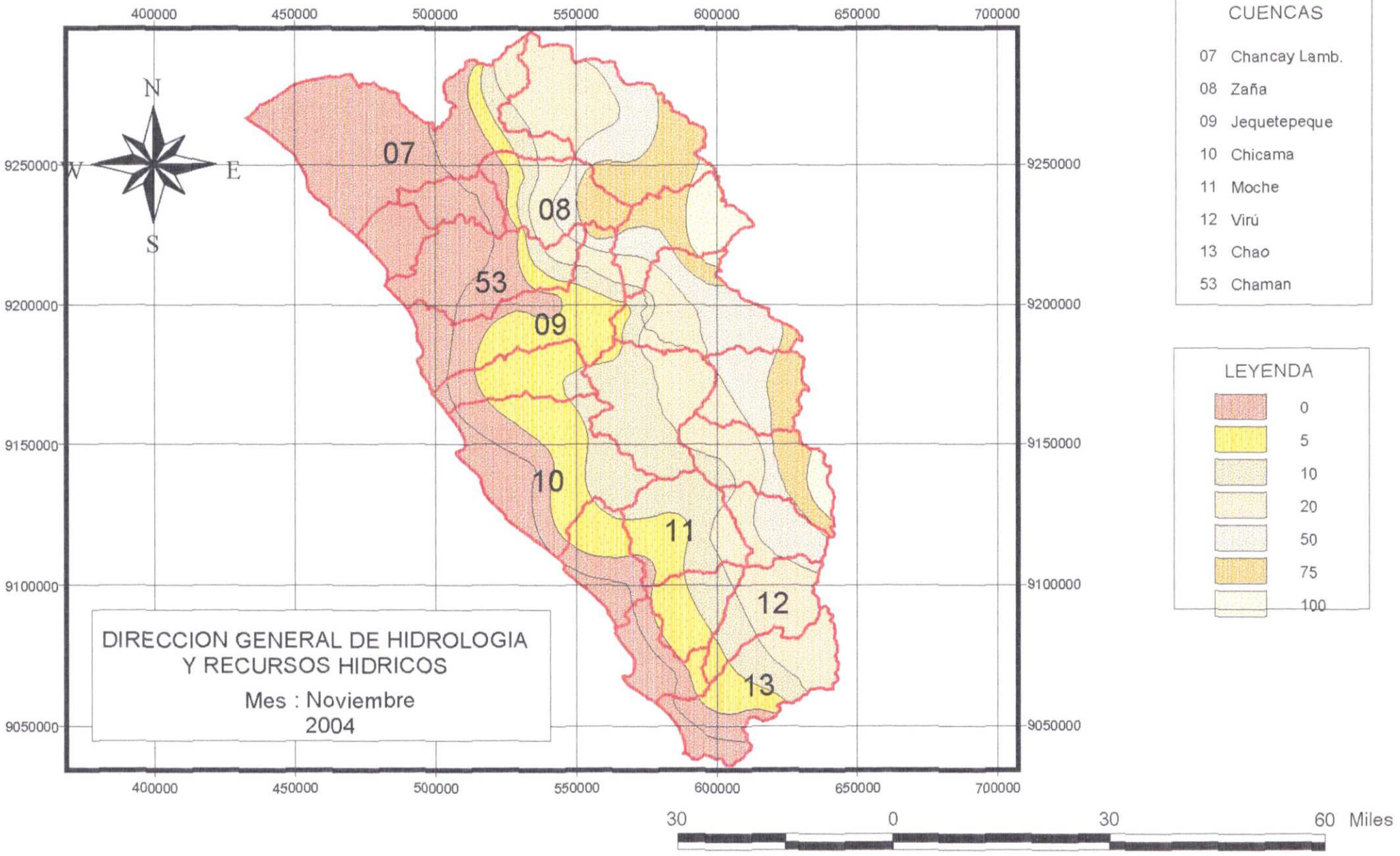
07	Chancay Lamb.
08	Zaña
09	Jequetepeque
10	Chicama
11	Moche
12	Virú
13	Chao
53	Chaman

LEYENDA

	0
	5
	10
	20
	50
	75
	100

30 0 30 60 Miles

PRECIPITACION MEDIA



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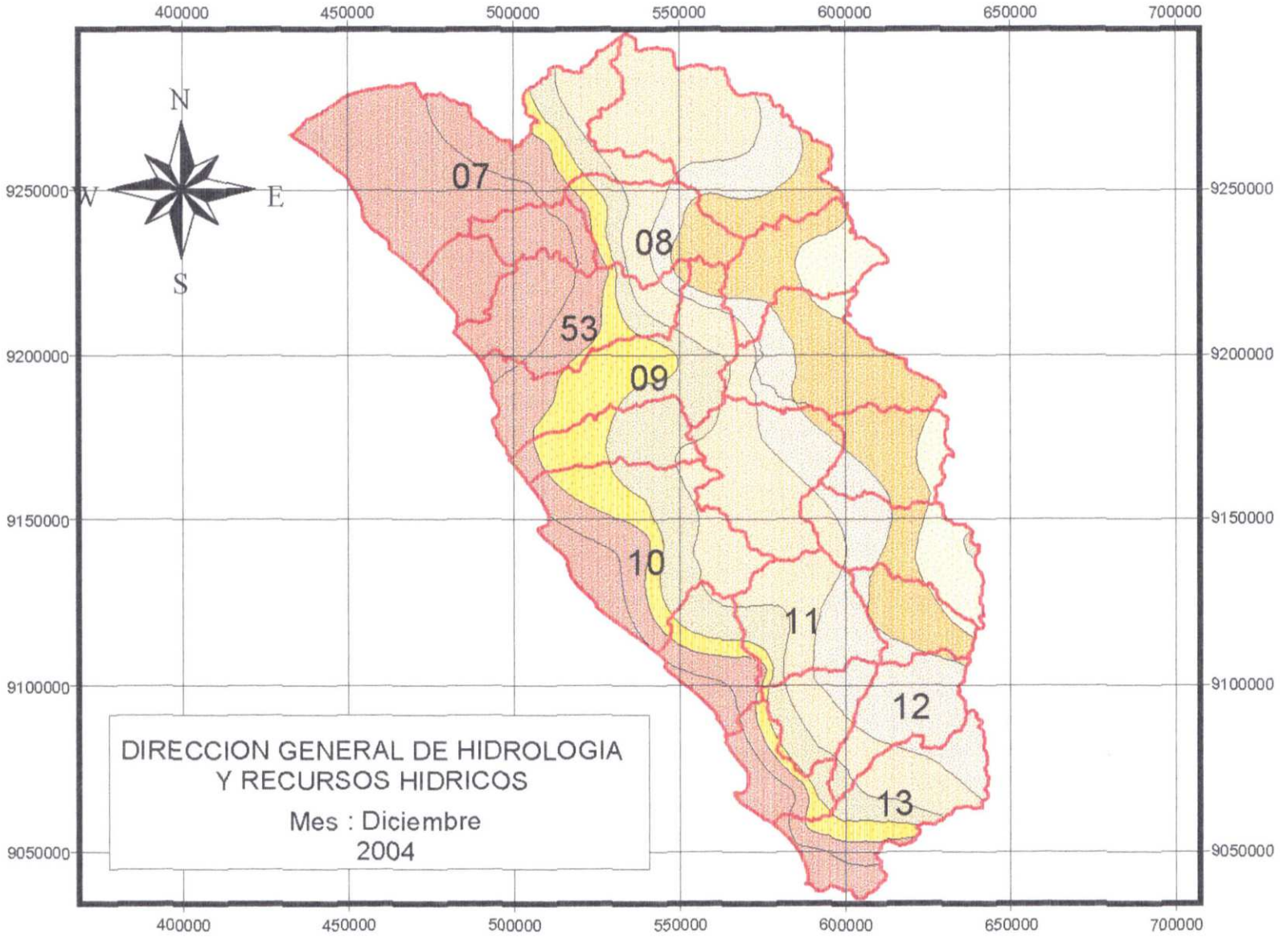

CUENCAS

07	Chancay Lamb.
08	Zaña
09	Jequetepeque
10	Chicama
11	Moche
12	Virú
13	Chao
53	Chaman

LEYENDA

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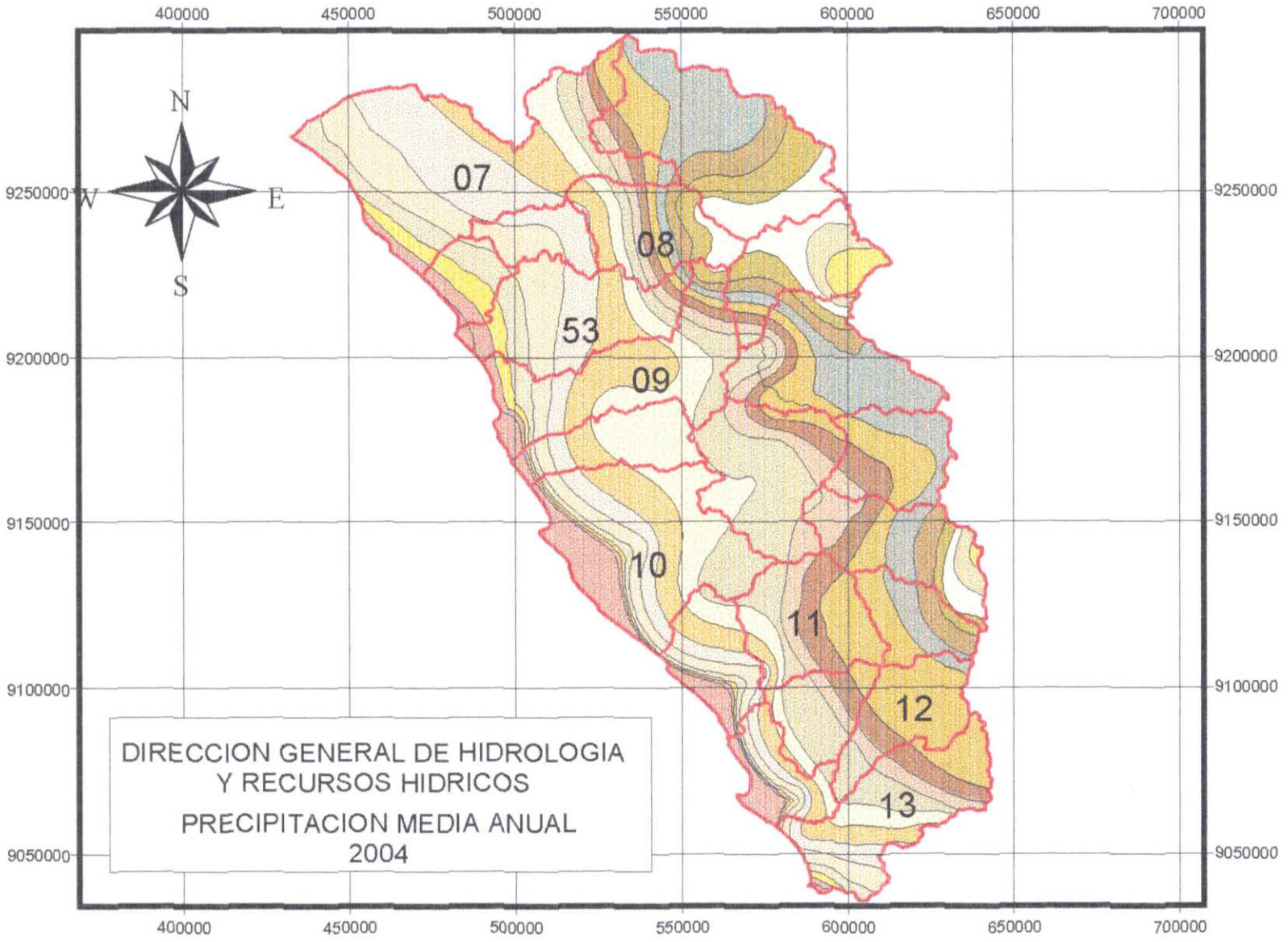
30 0 30 60 Miles

PRECIPITACION MEDIA



CUENCAS

07	Chancay Lamb.
08	Zaña
09	Jequetepeque
10	Chicama
11	Moche
12	Virú
13	Chao
53	Chaman

LEYENDA

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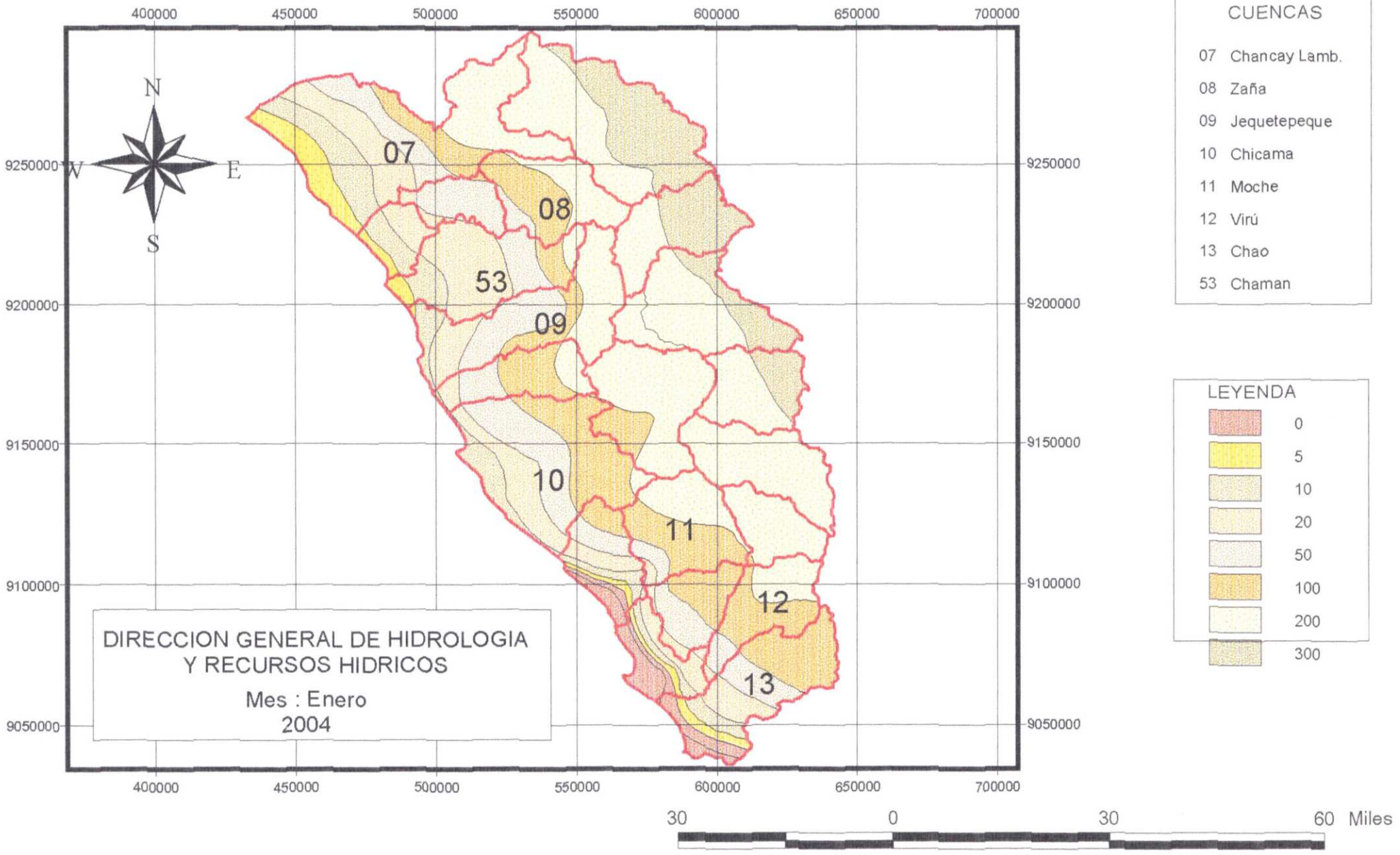
1100
1200

30 0 30 60 Miles

PRECIPITACION MAXIMA



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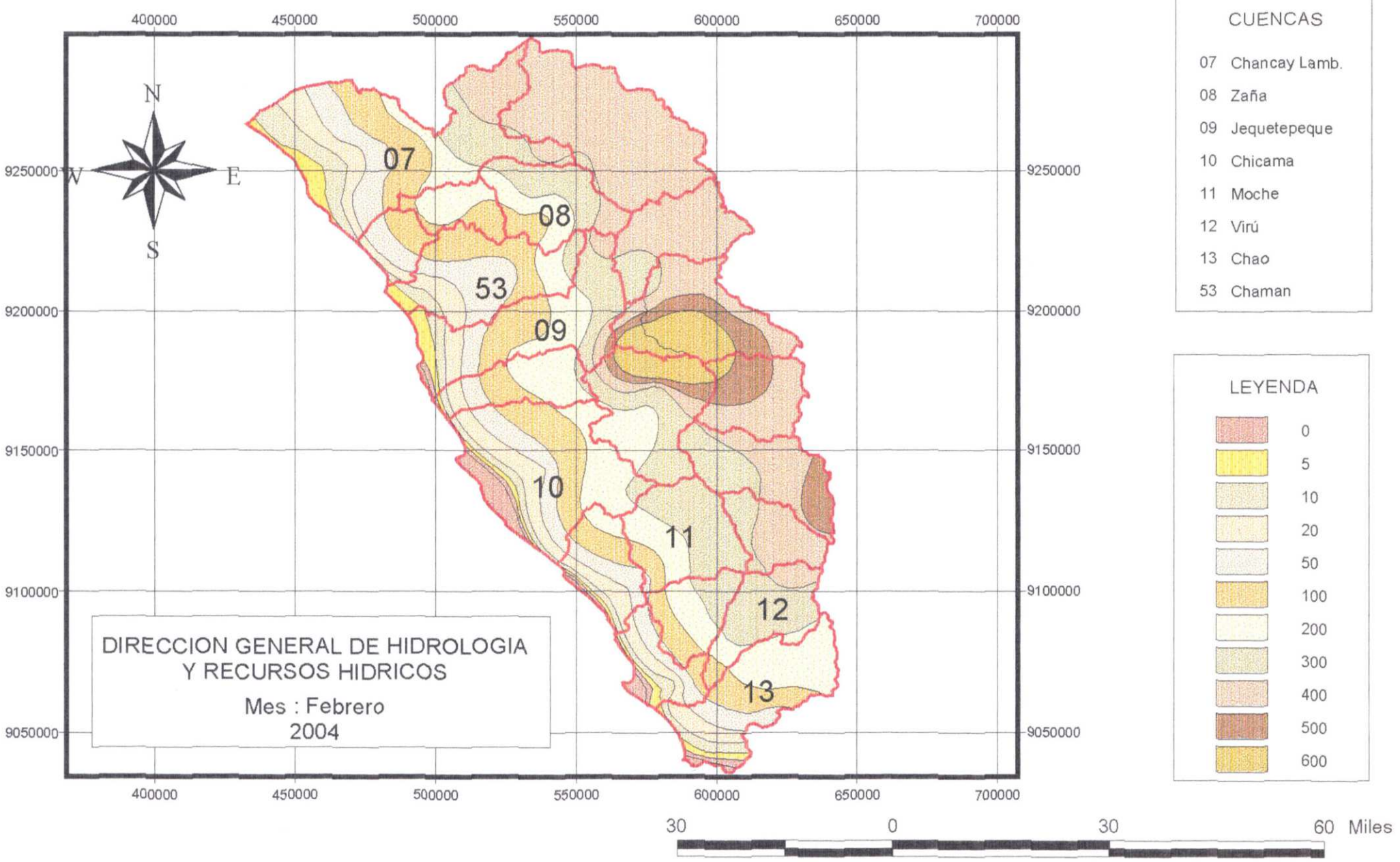

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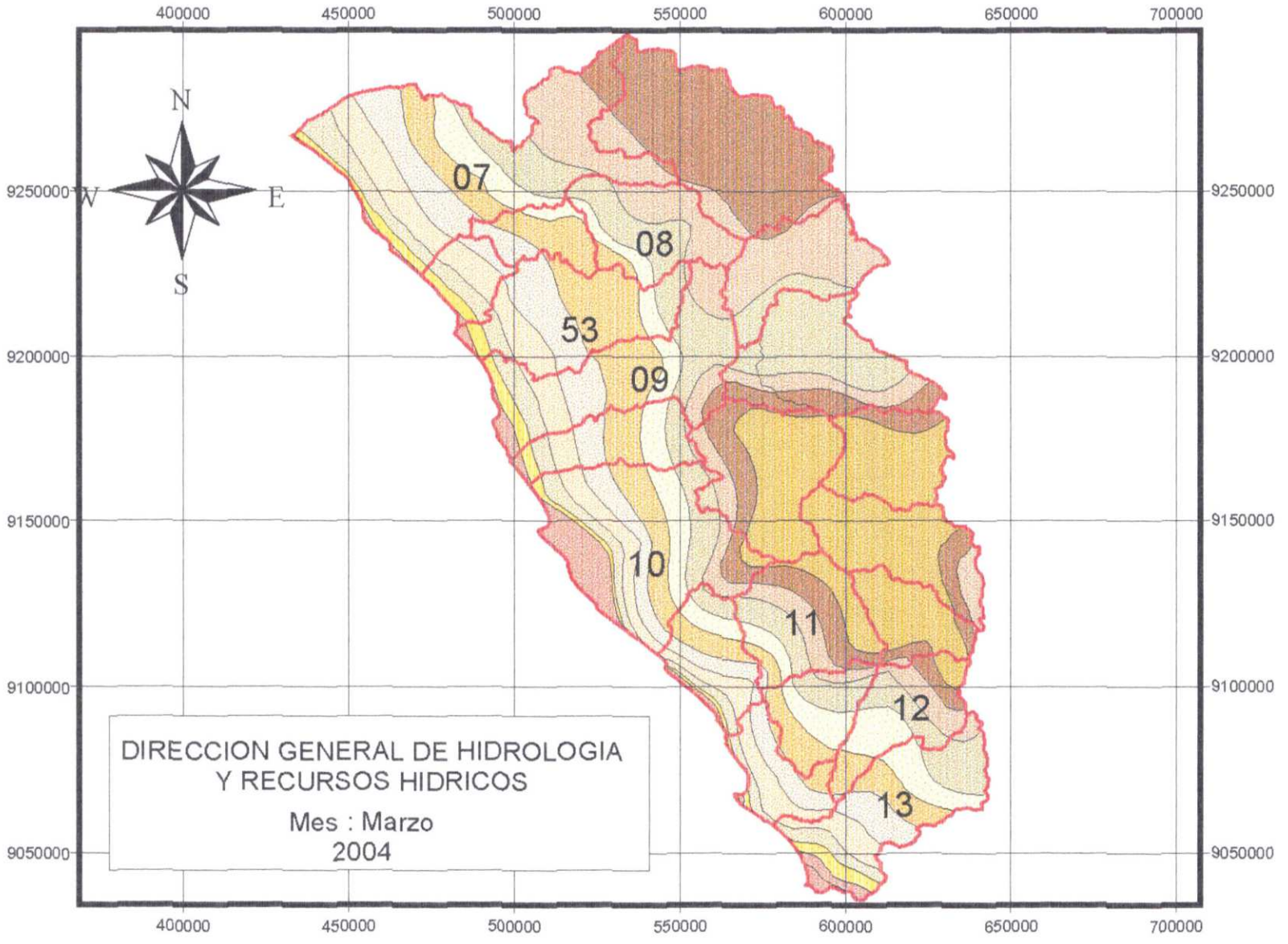

CUENCAS

07	Chancay Lamb.
08	Zaña
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53	Chaman

LEYENDA

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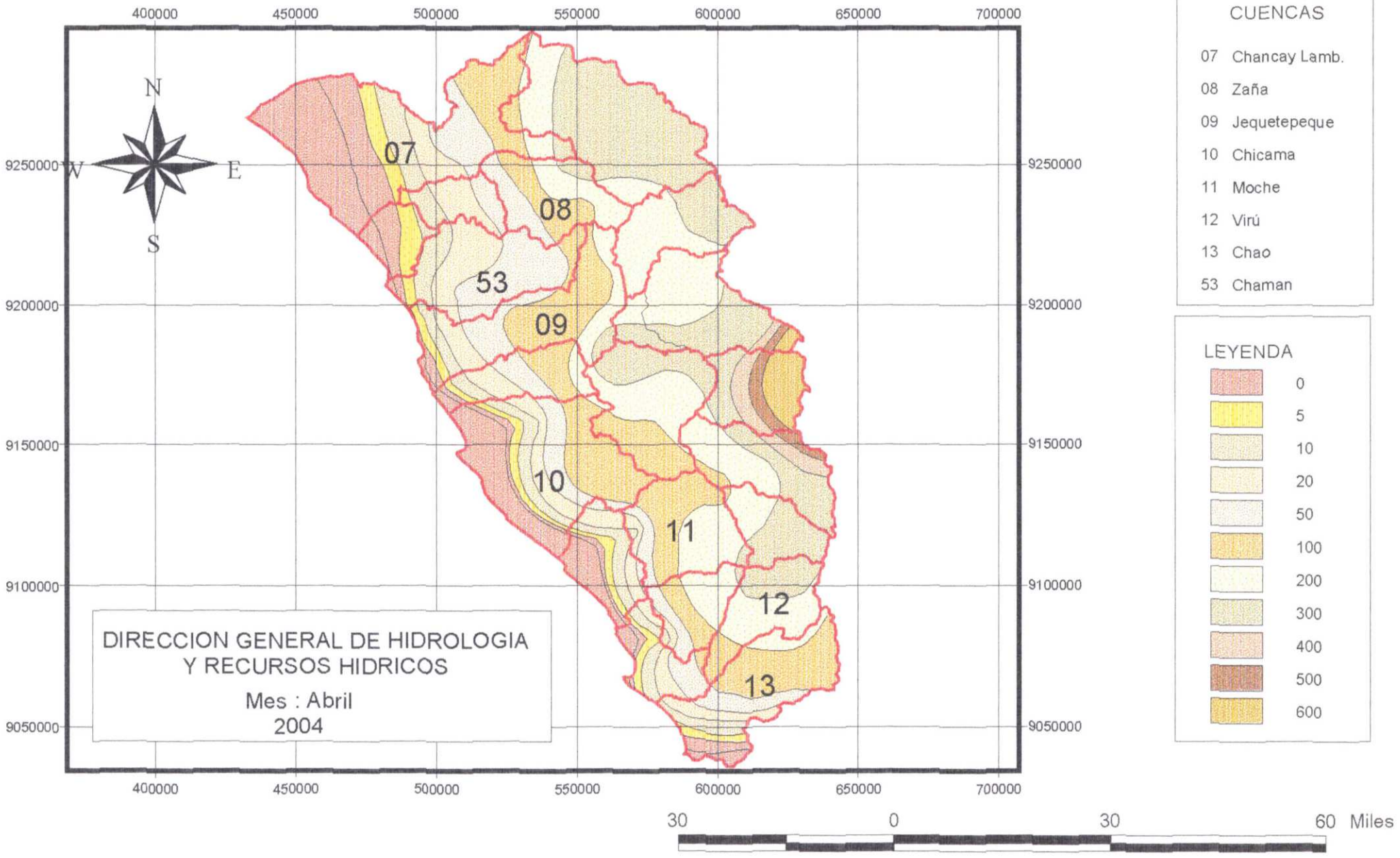
PRECIPITACION MAXIMA



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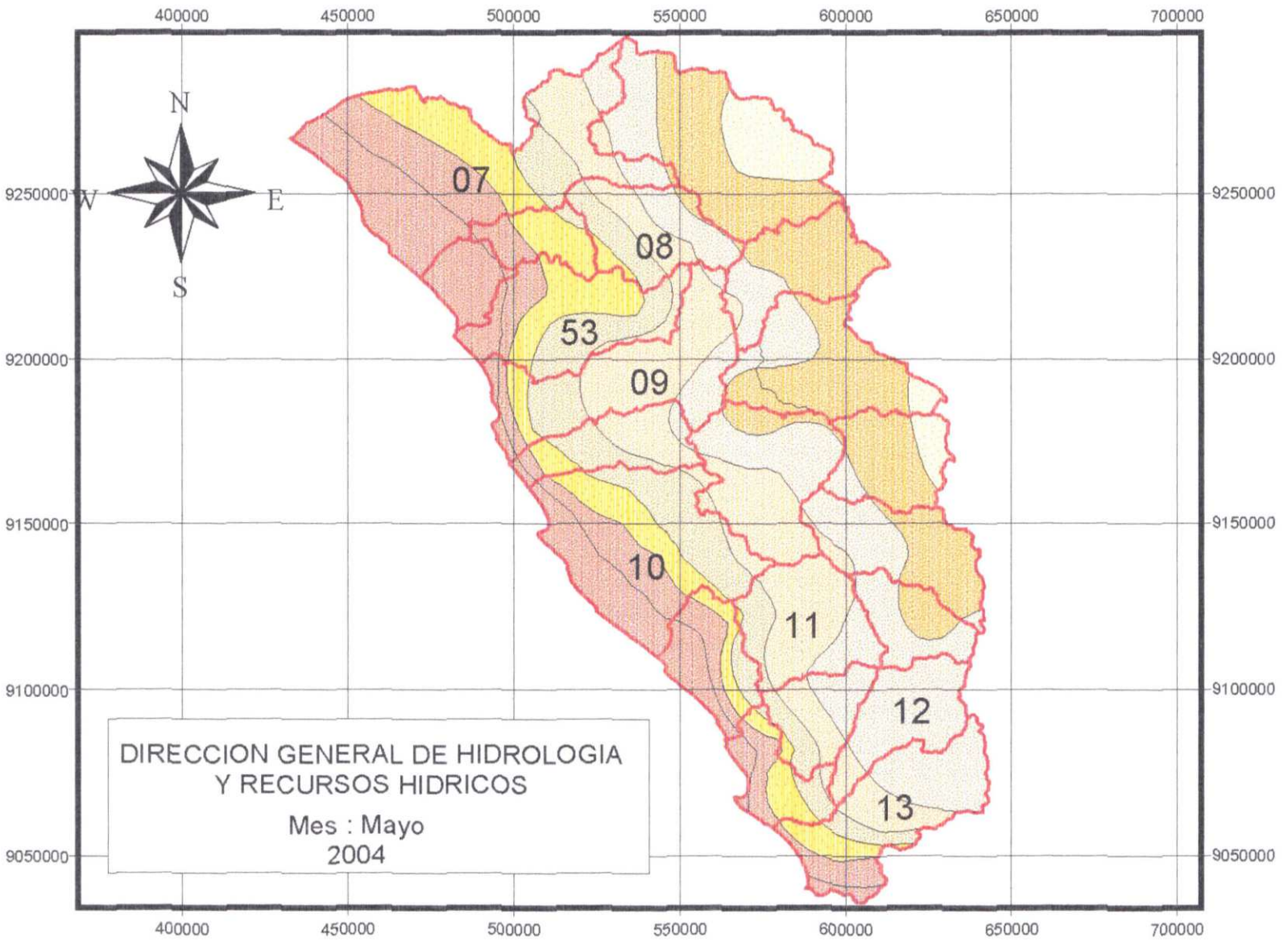

CUENCAS

07	Chancay Lamb.
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11	Moche
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53	Chaman

LEYENDA

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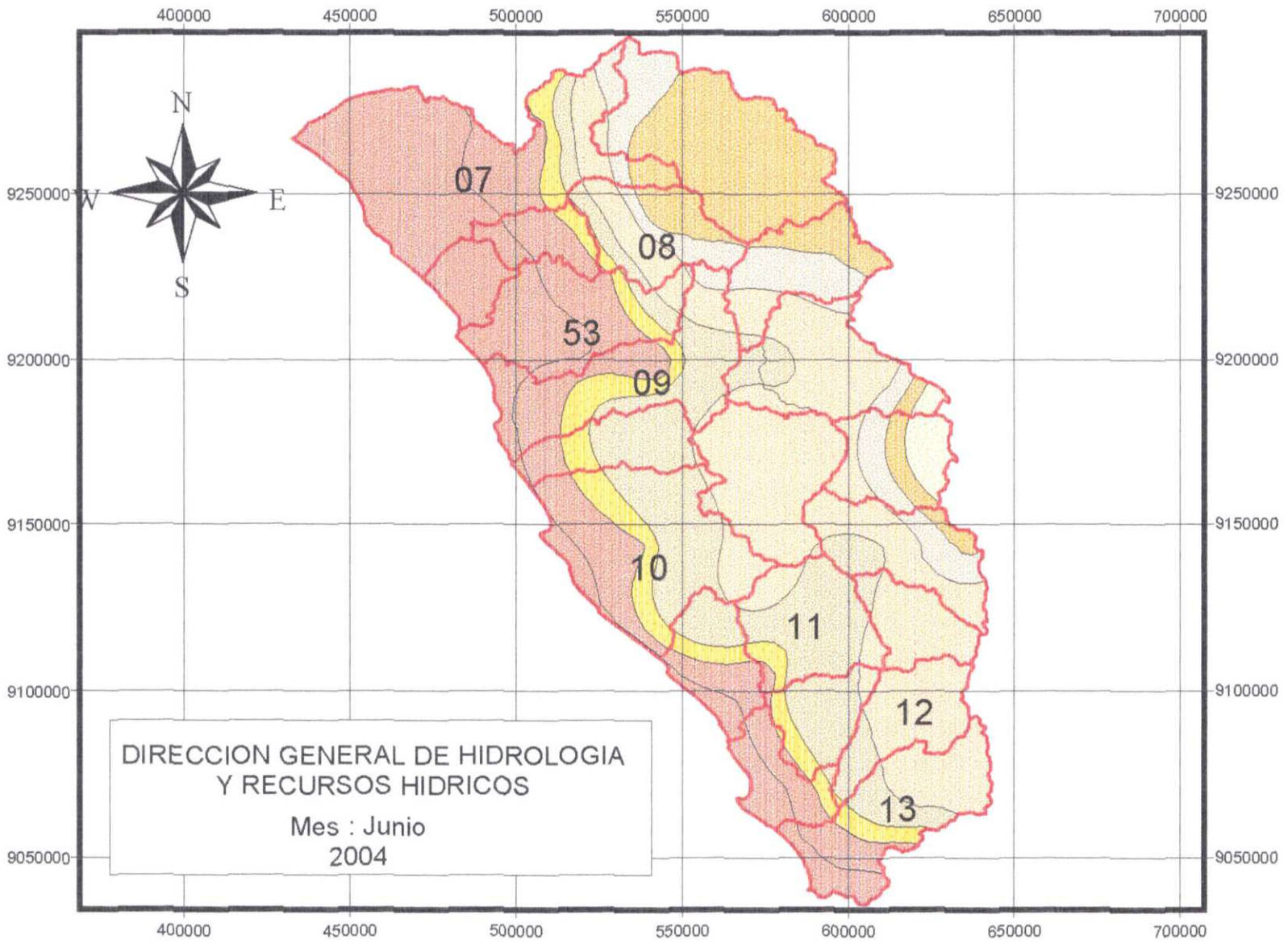
30 0 30 60 Miles

PRECIPITACION MAXIMA



CUENCAS

07	Chancay Lamb.
08	Zaña
09	Jequetepeque
10	Chicama
11	Moche
12	Virú
13	Chao
53	Chaman

LEYENDA

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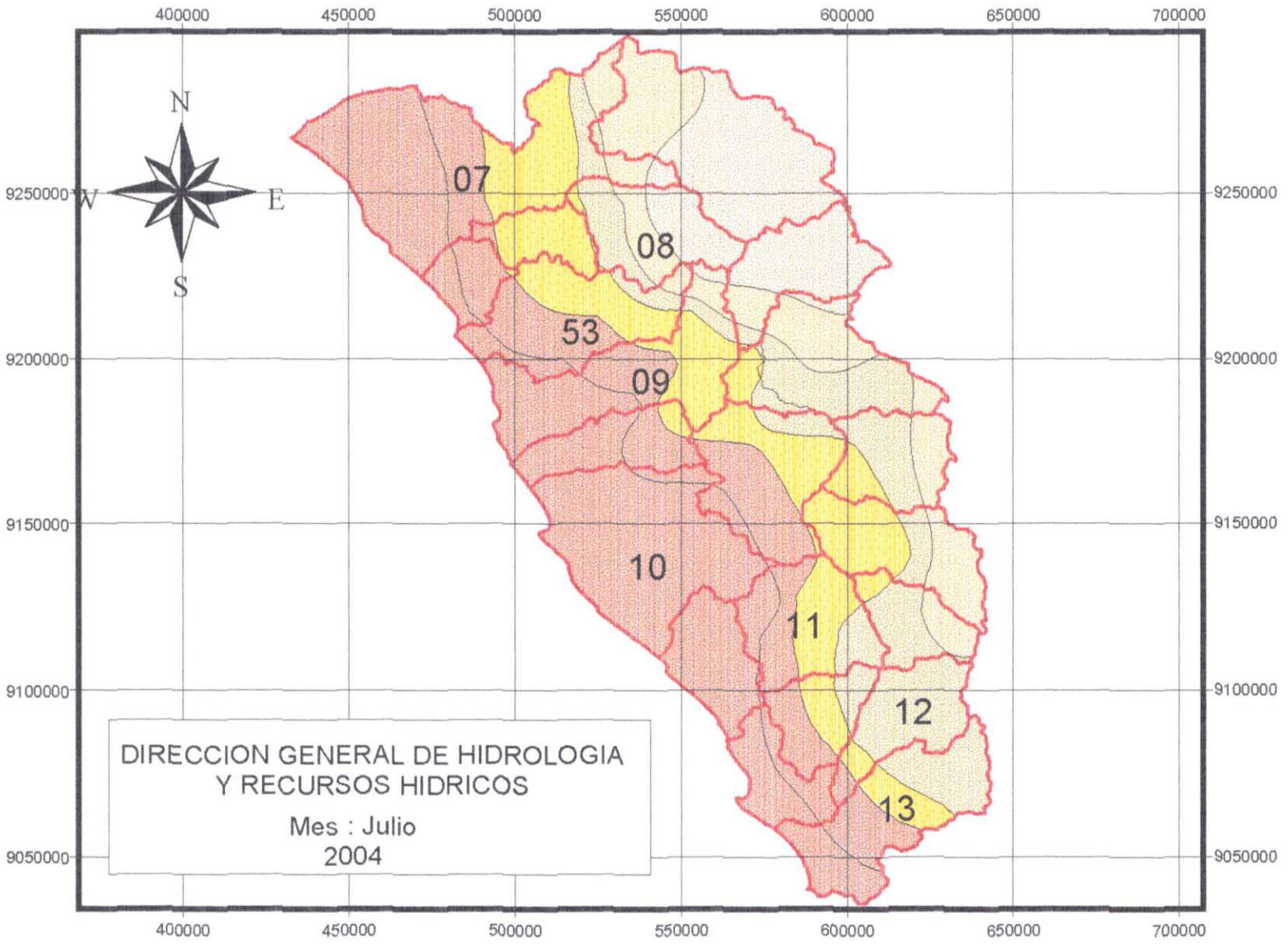
30 0 30 60 Miles

PRECIPITACION MAXIMA



CUENCAS

07	Chancay Lamb.
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53	Chaman

LEYENDA

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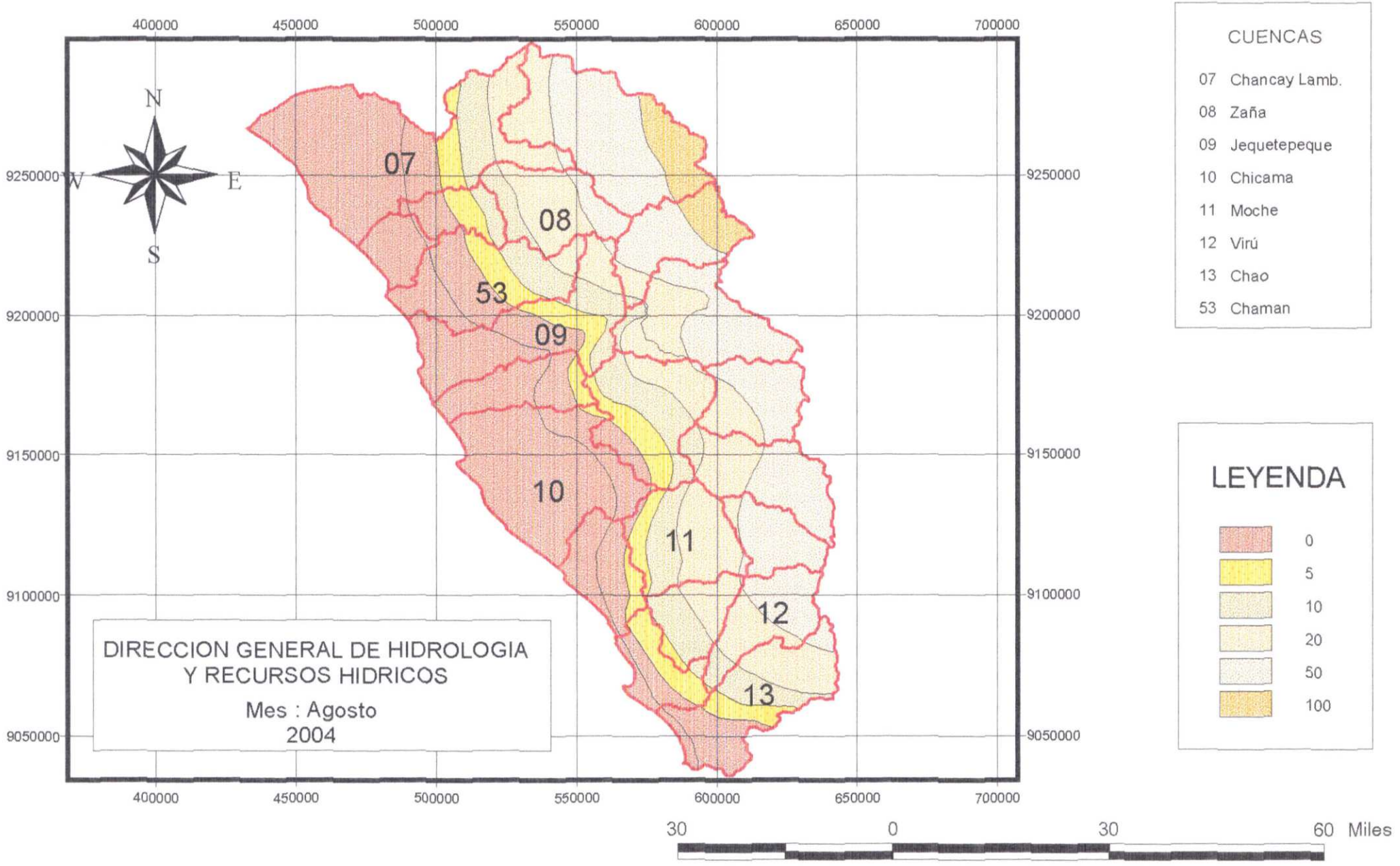
30 0 30 60 Miles

PRECIPITACION MAXIMA



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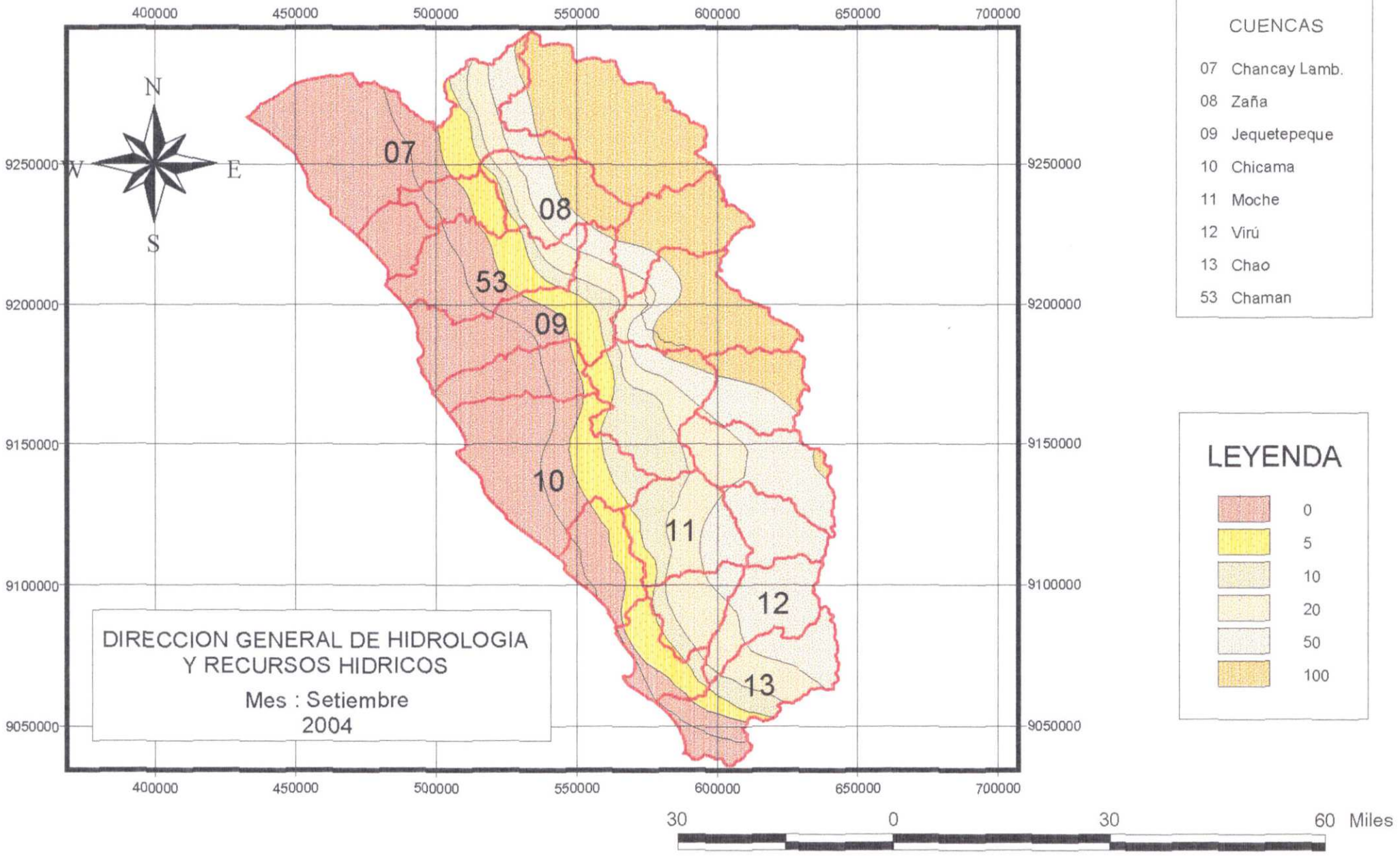

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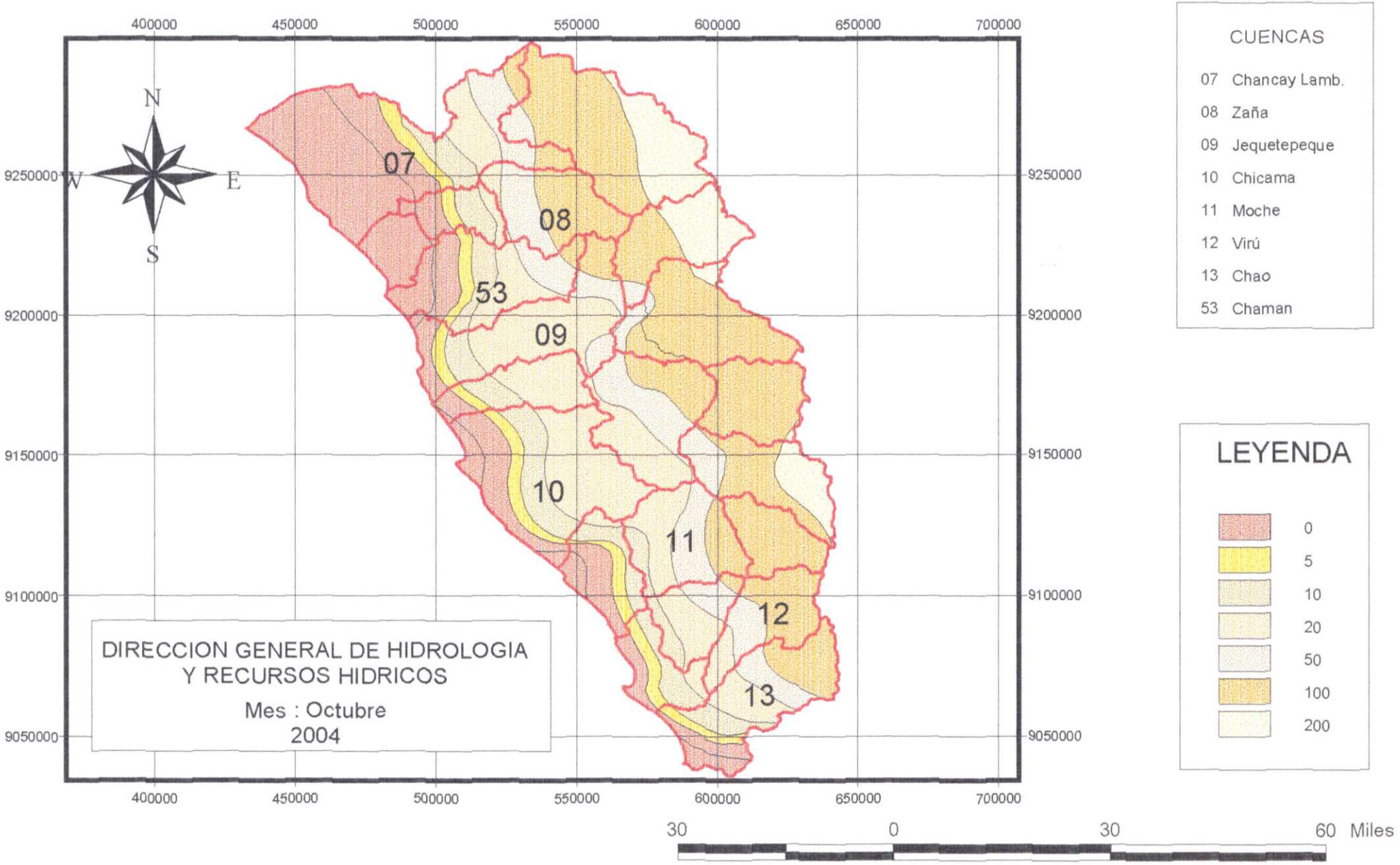

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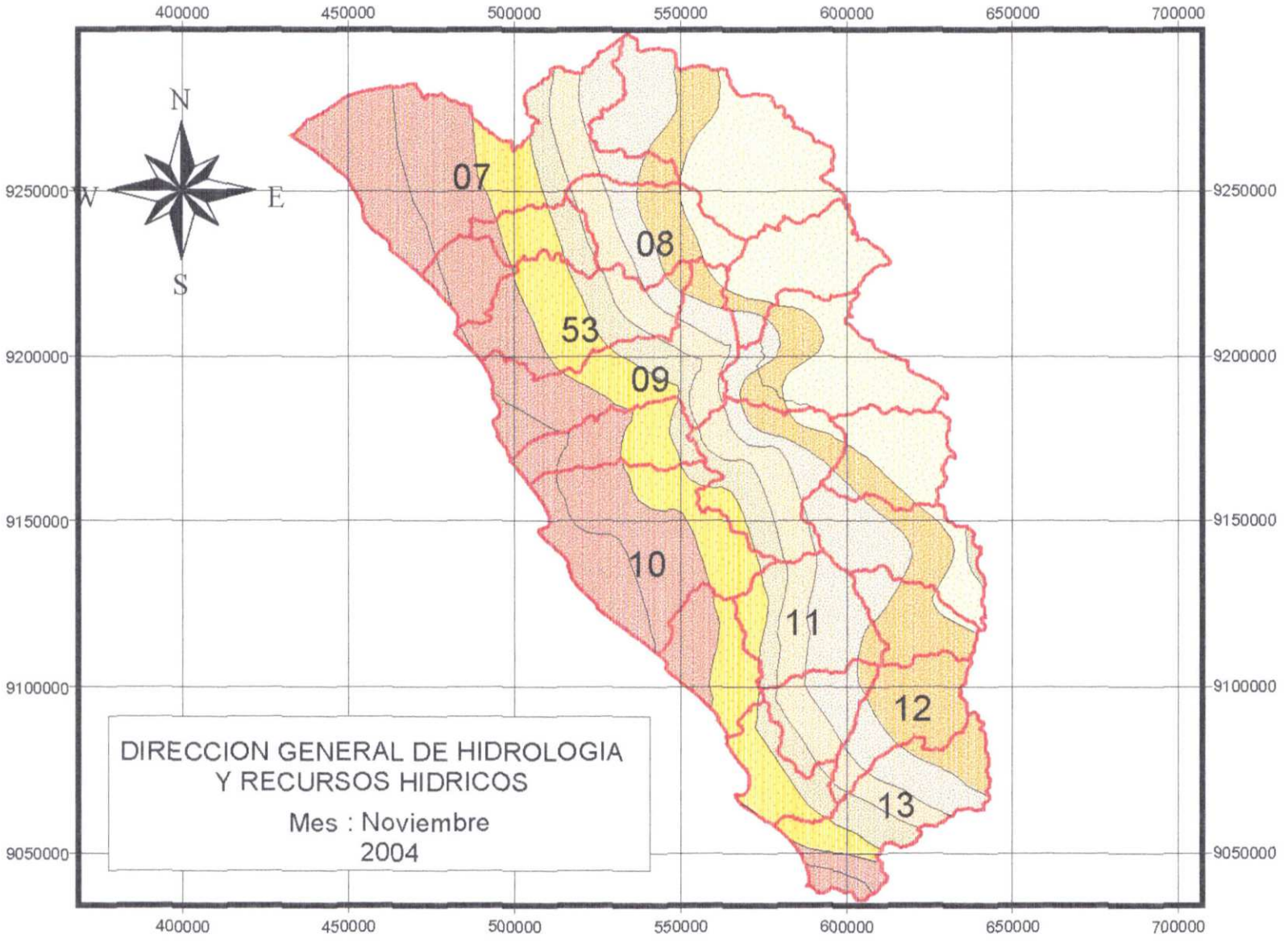

CUENCAS

07	Chancay Lamb.
08	Zaña
09	Jequetepeque
10	Chicama
11	Moche
12	Virú
13	Chao
53	Chaman

LEYENDA

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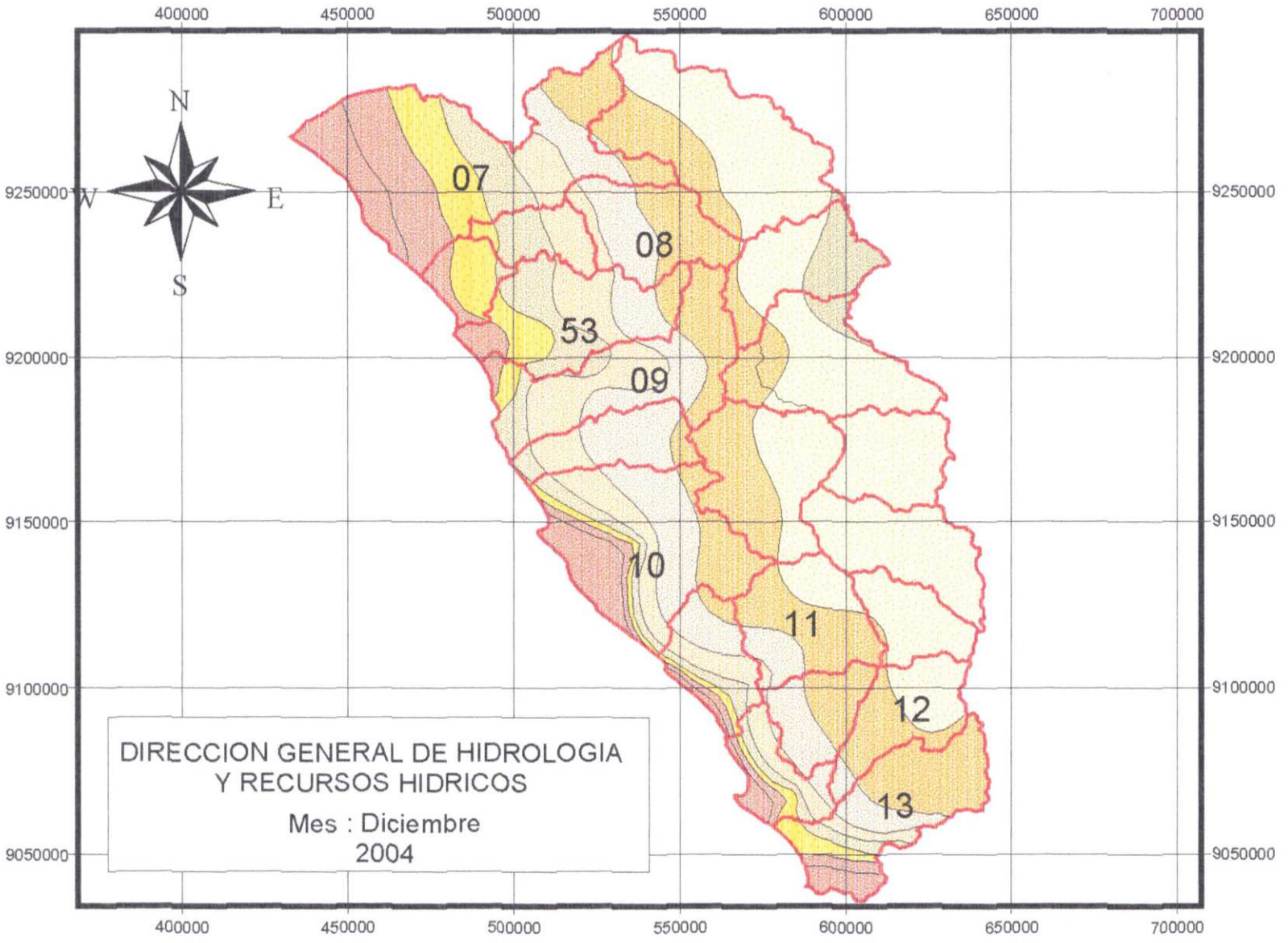
300

30 0 30 60 Miles

PRECIPITACION MAXIMA



CUENCAS

07	Chancay Lamb.
08	Zaña
09	Jequetepeque
10	Chicama
11	Moche
12	Virú
13	Chao
53	Chaman

LEYENDA

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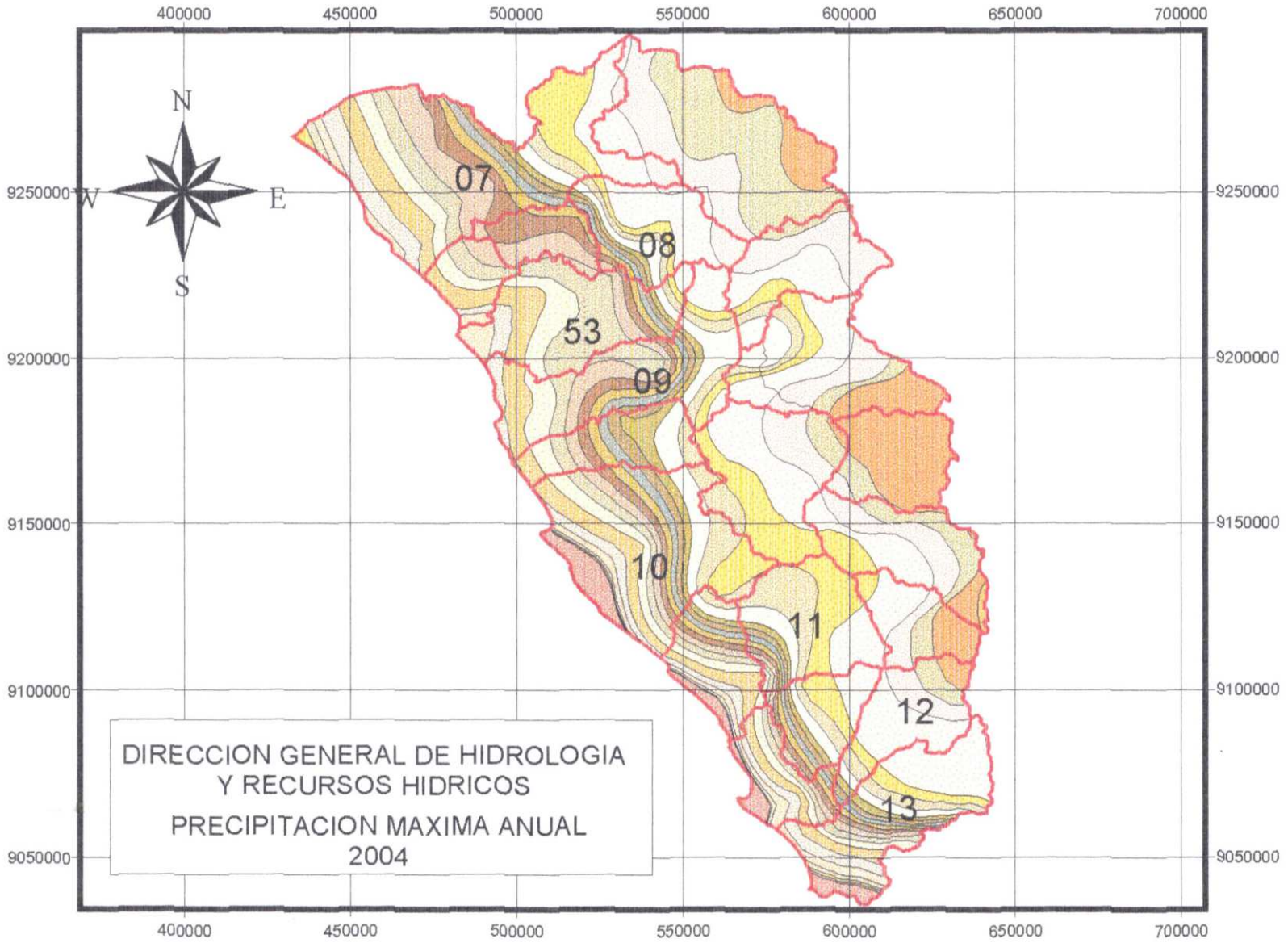
300

30 0 30 60 Miles

PRECIPITACION MAXIMA



CUENCAS

07 Chancay Lamb.
08 Zaña
09 Jequetepeque
10 Chicama
11 Moche
12 Virú
13 Chao
53 Chaman

LEYENDA

0
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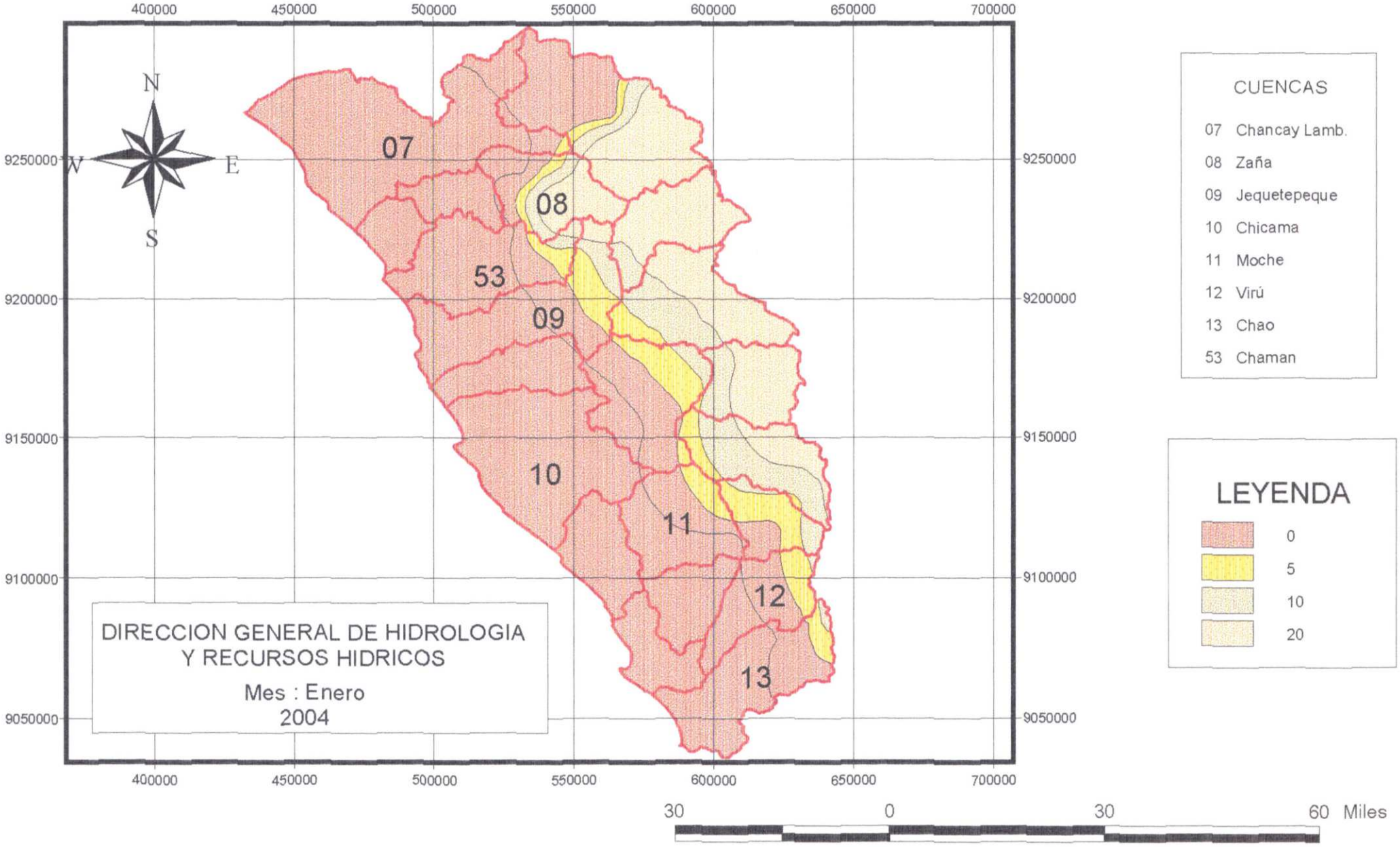
100
200
300
400
500
600
700
800
900
1000
1200
1400
1600
1800
2000
2200
2400

30 0 30 60 Miles

PRECIPITACION MINIMA



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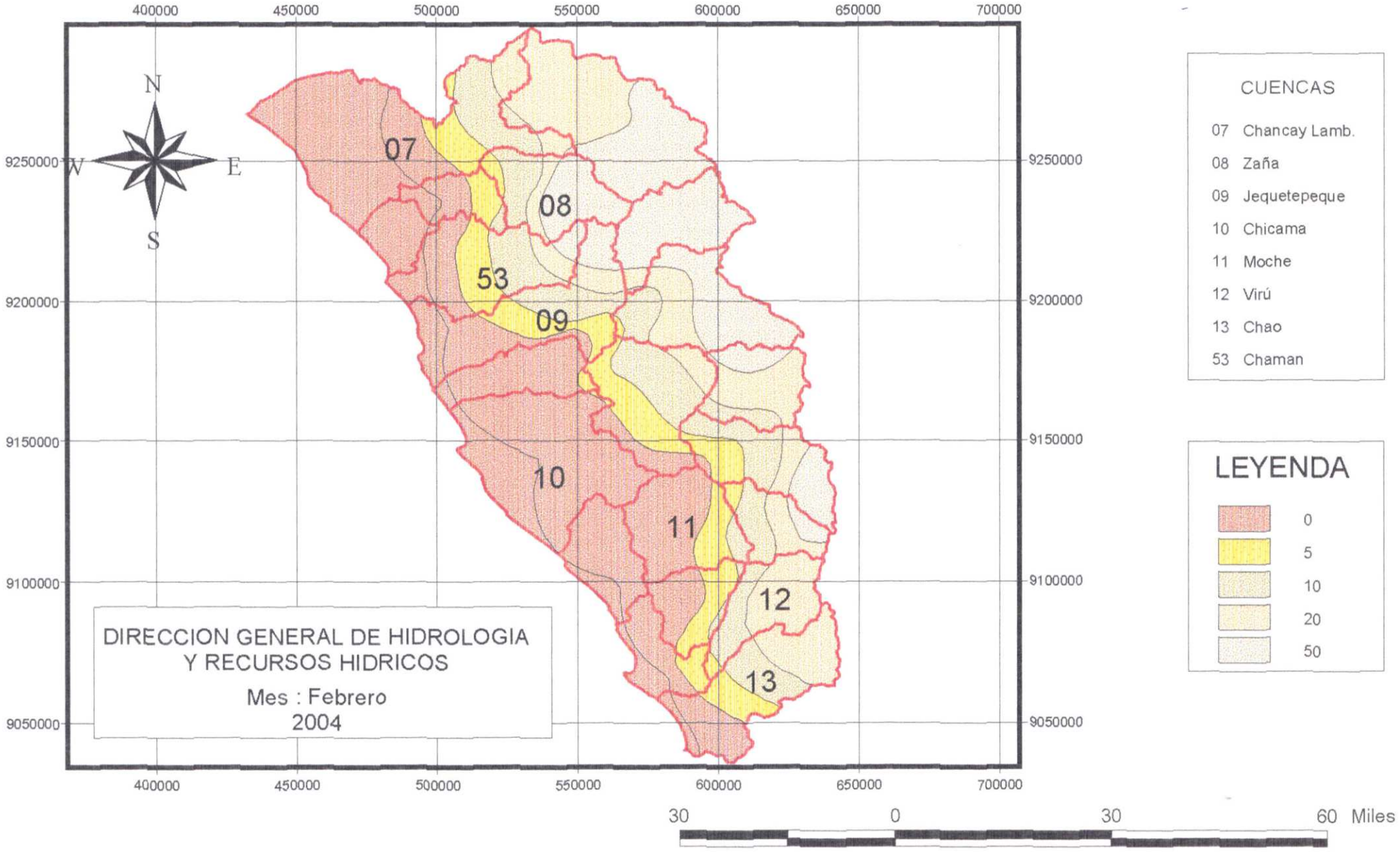

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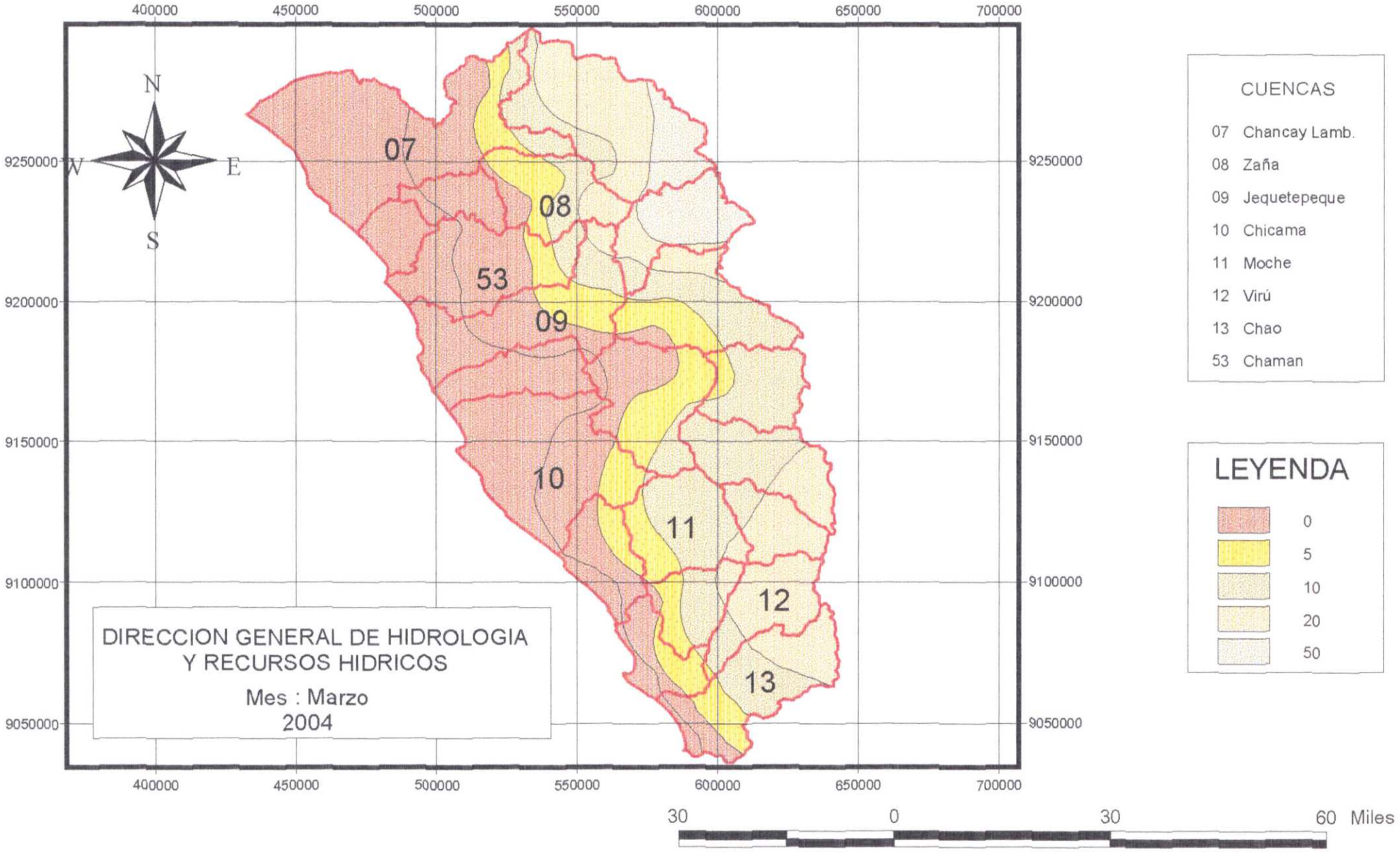

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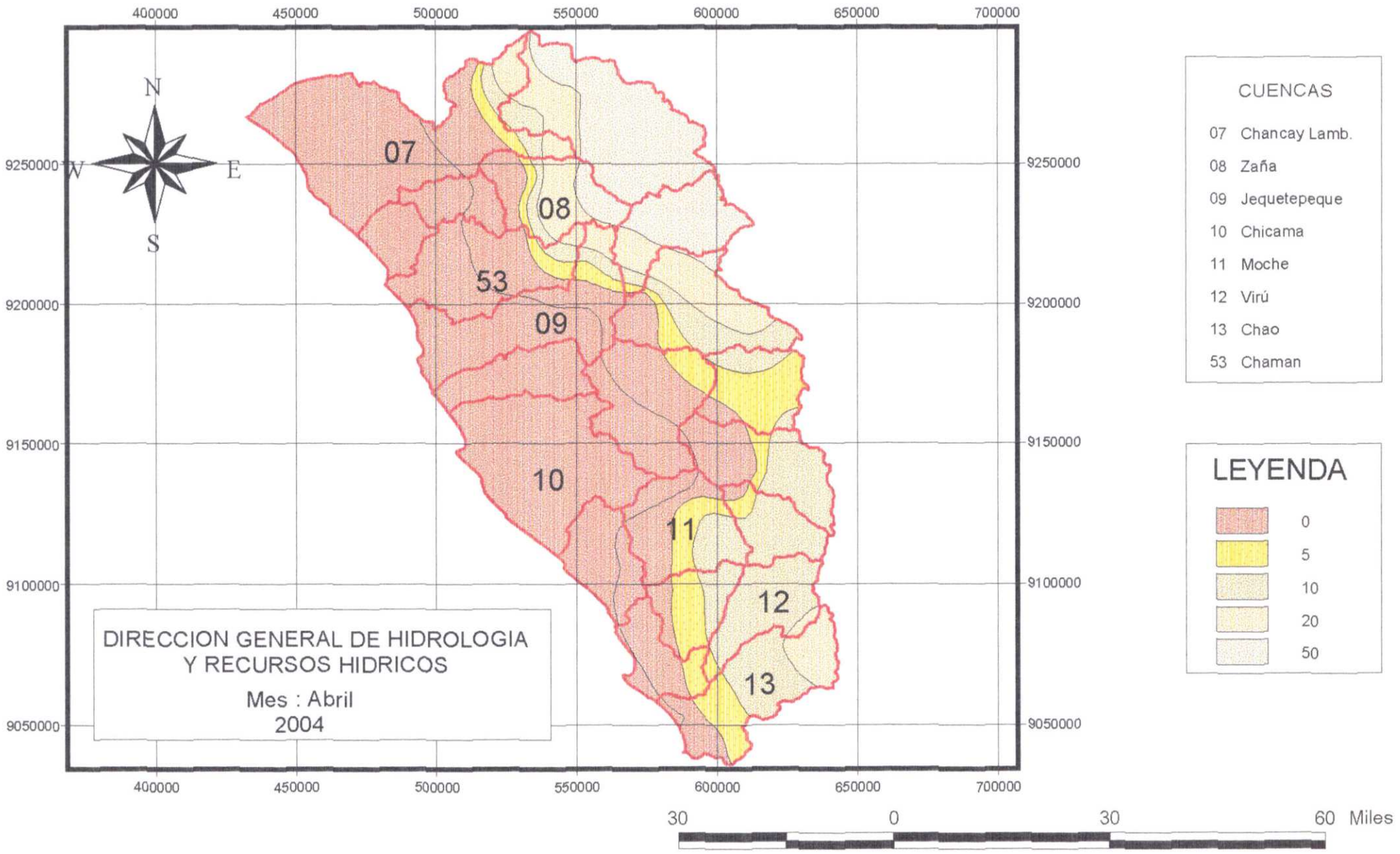

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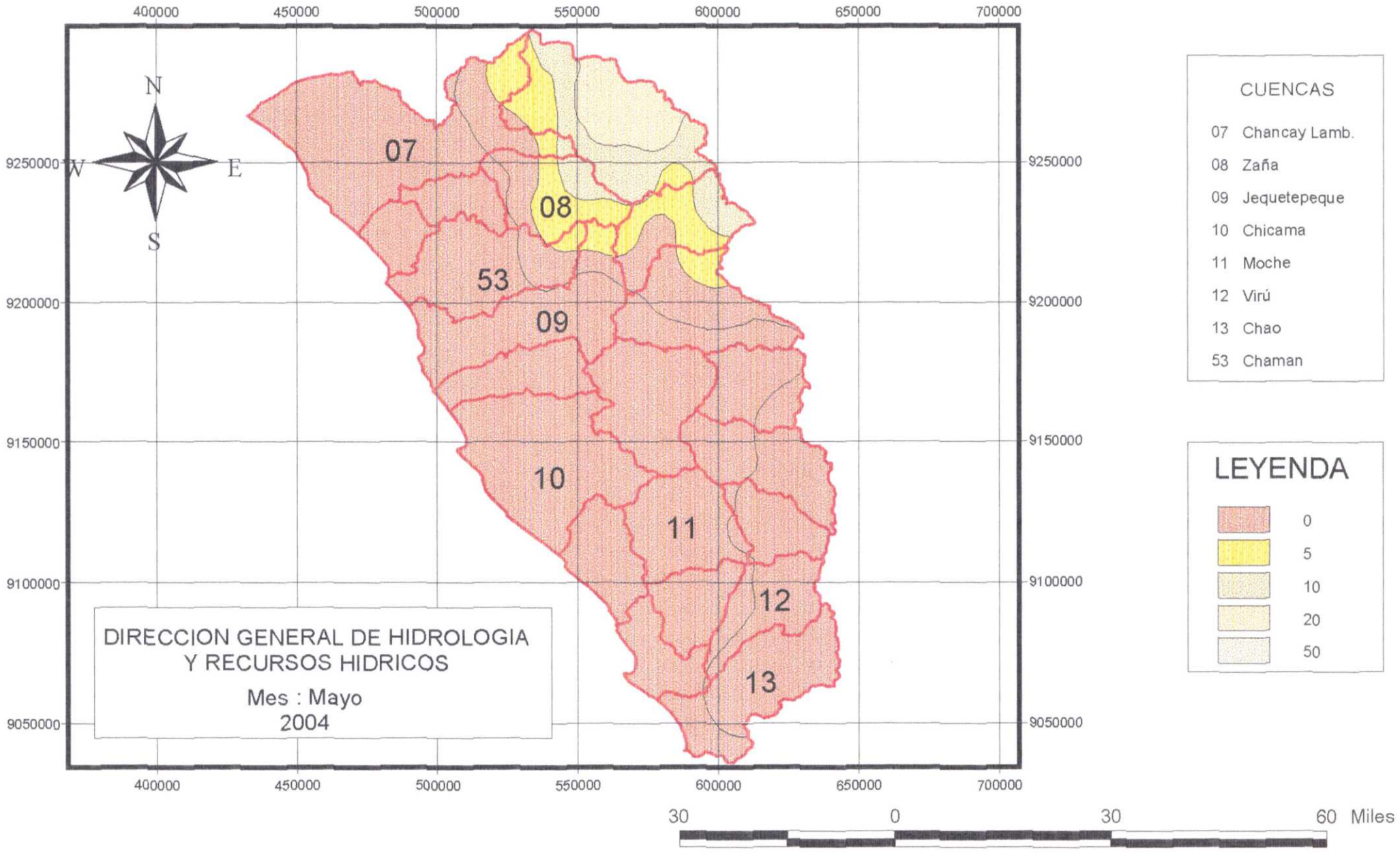

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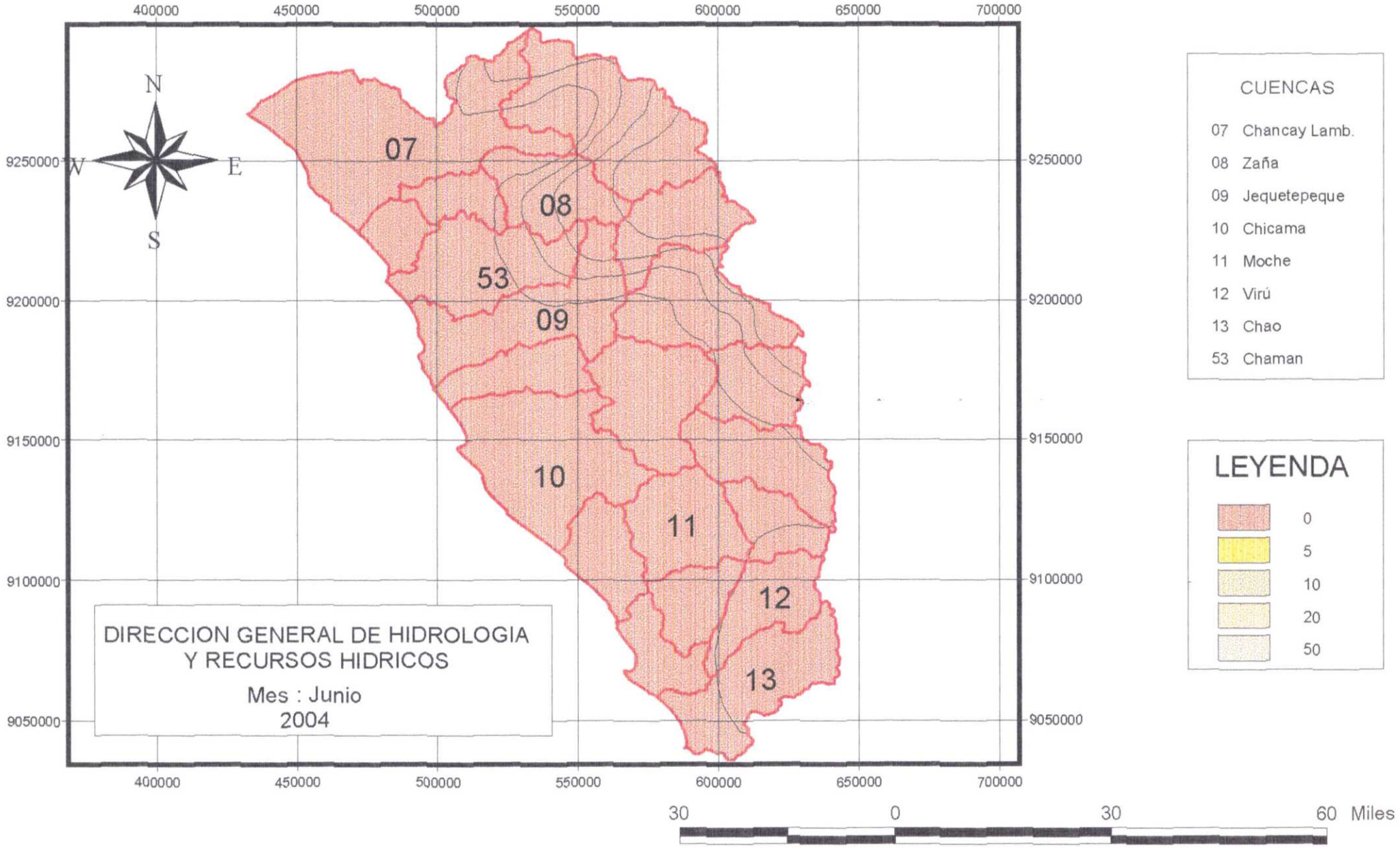

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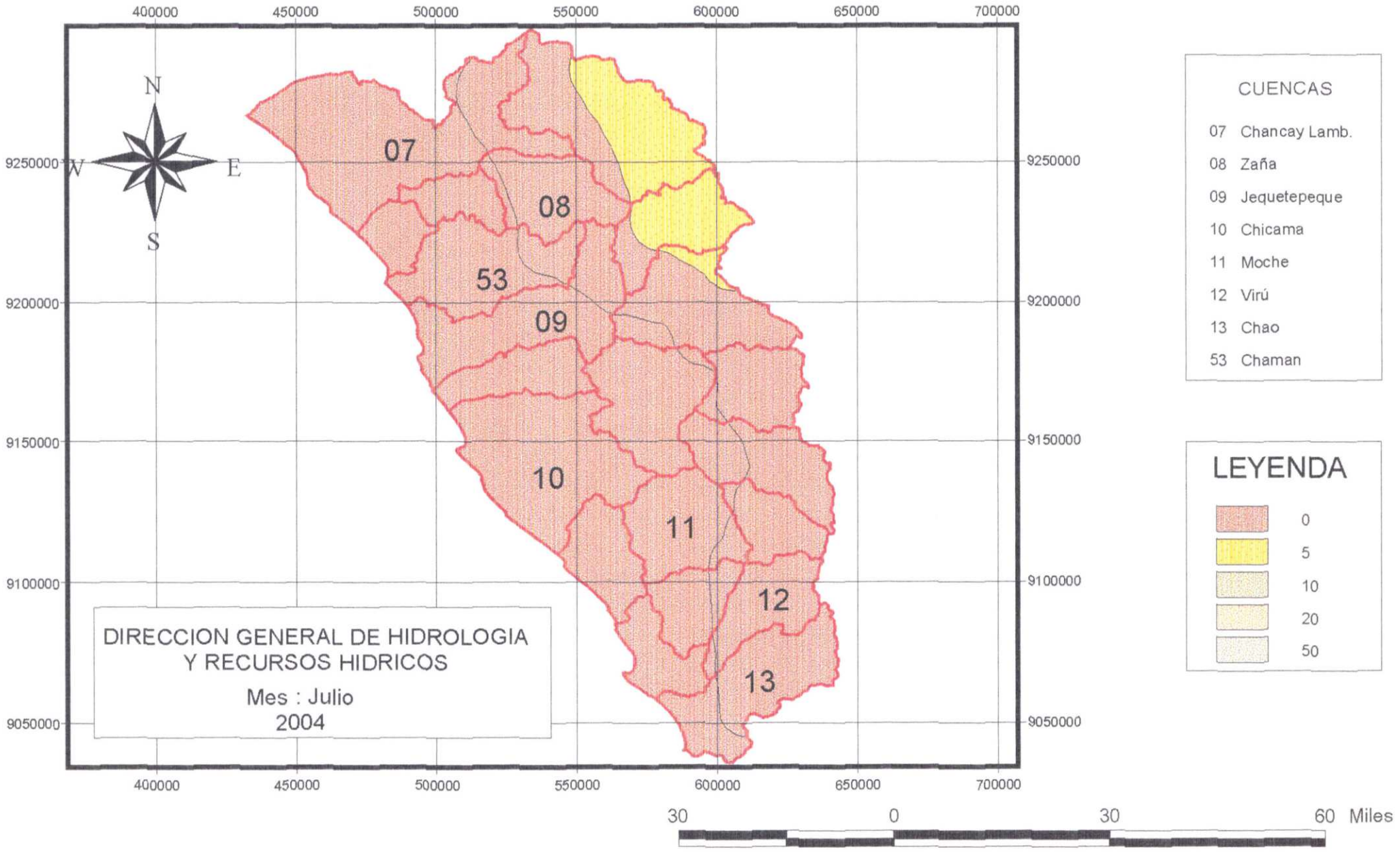

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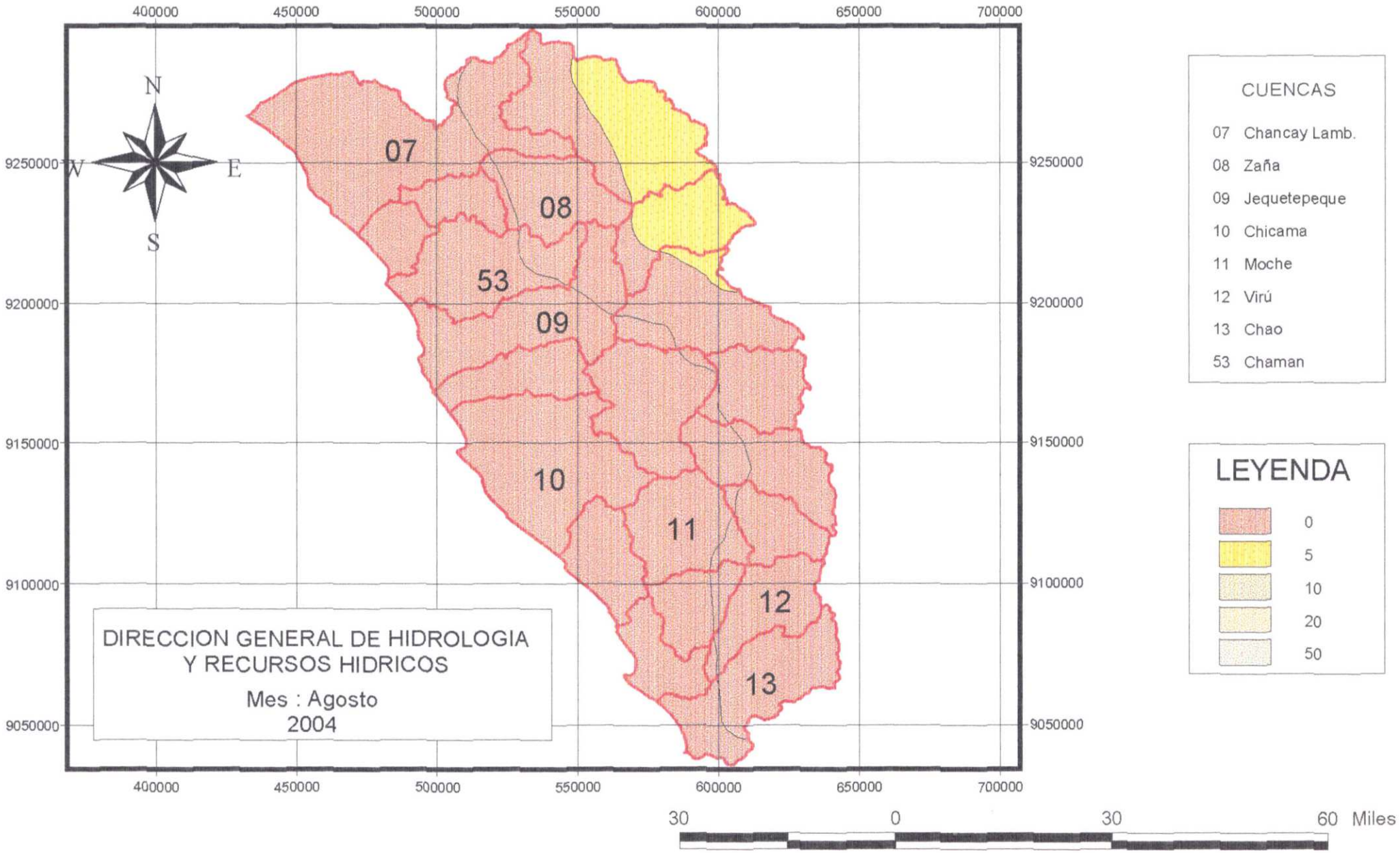

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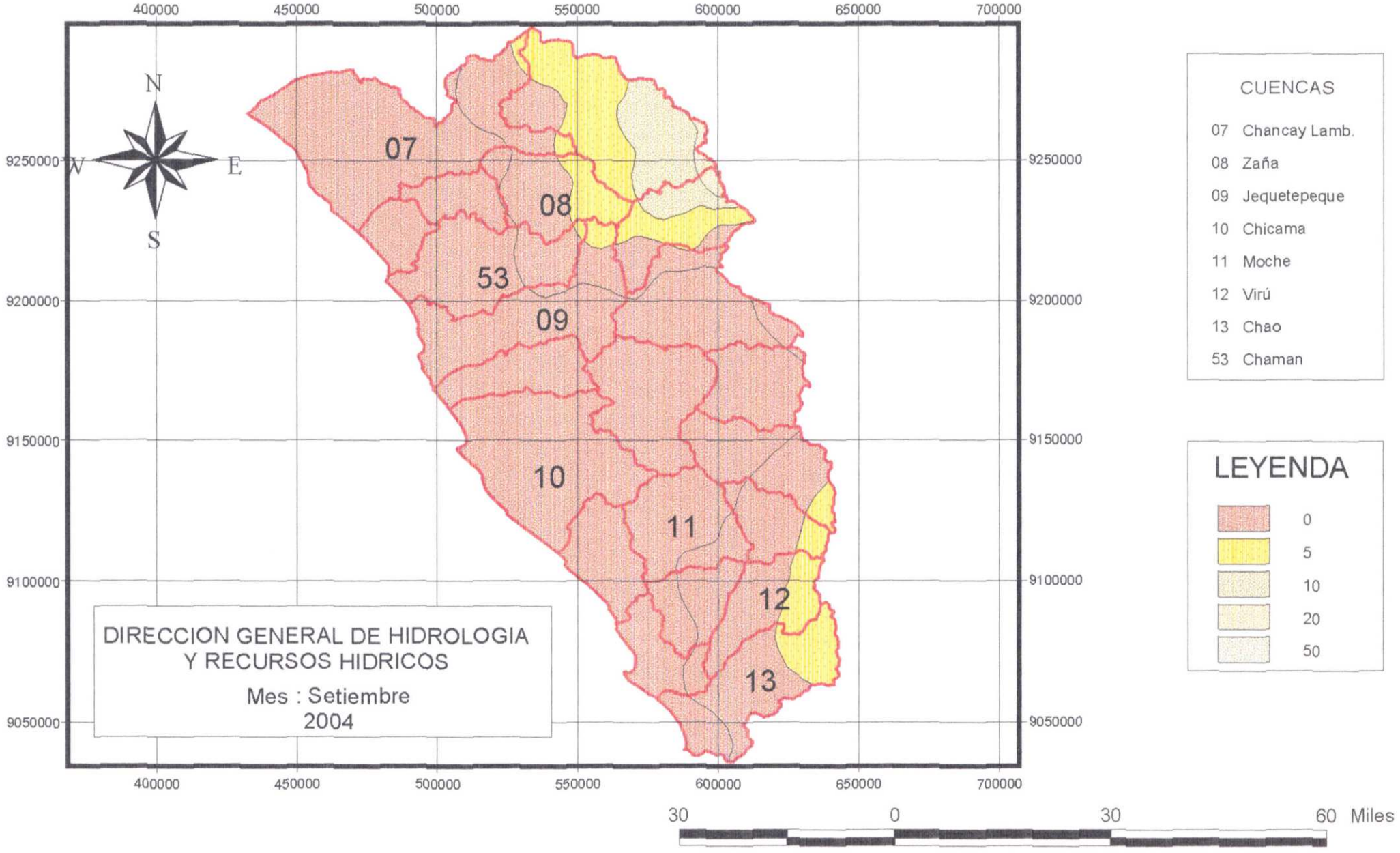

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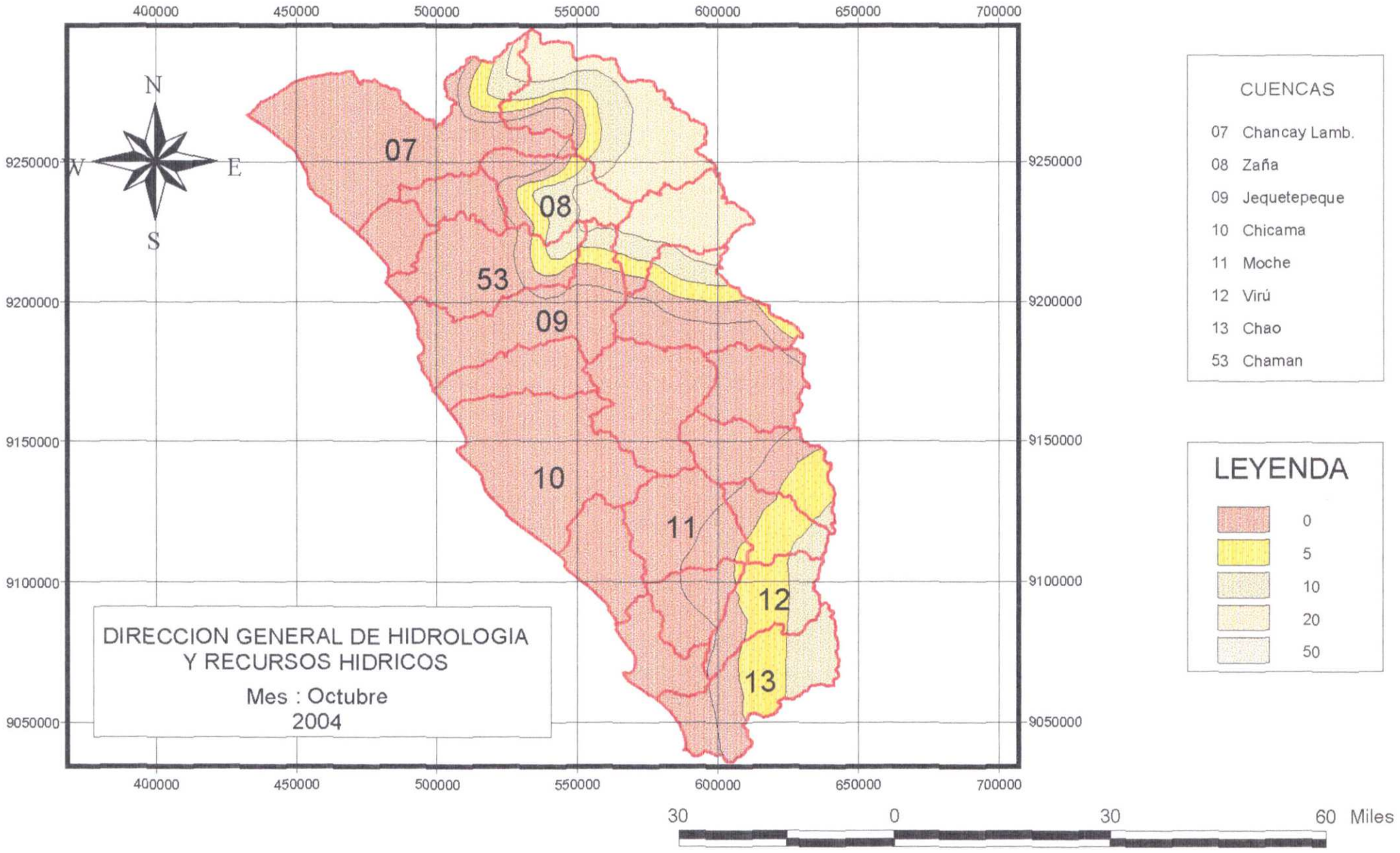

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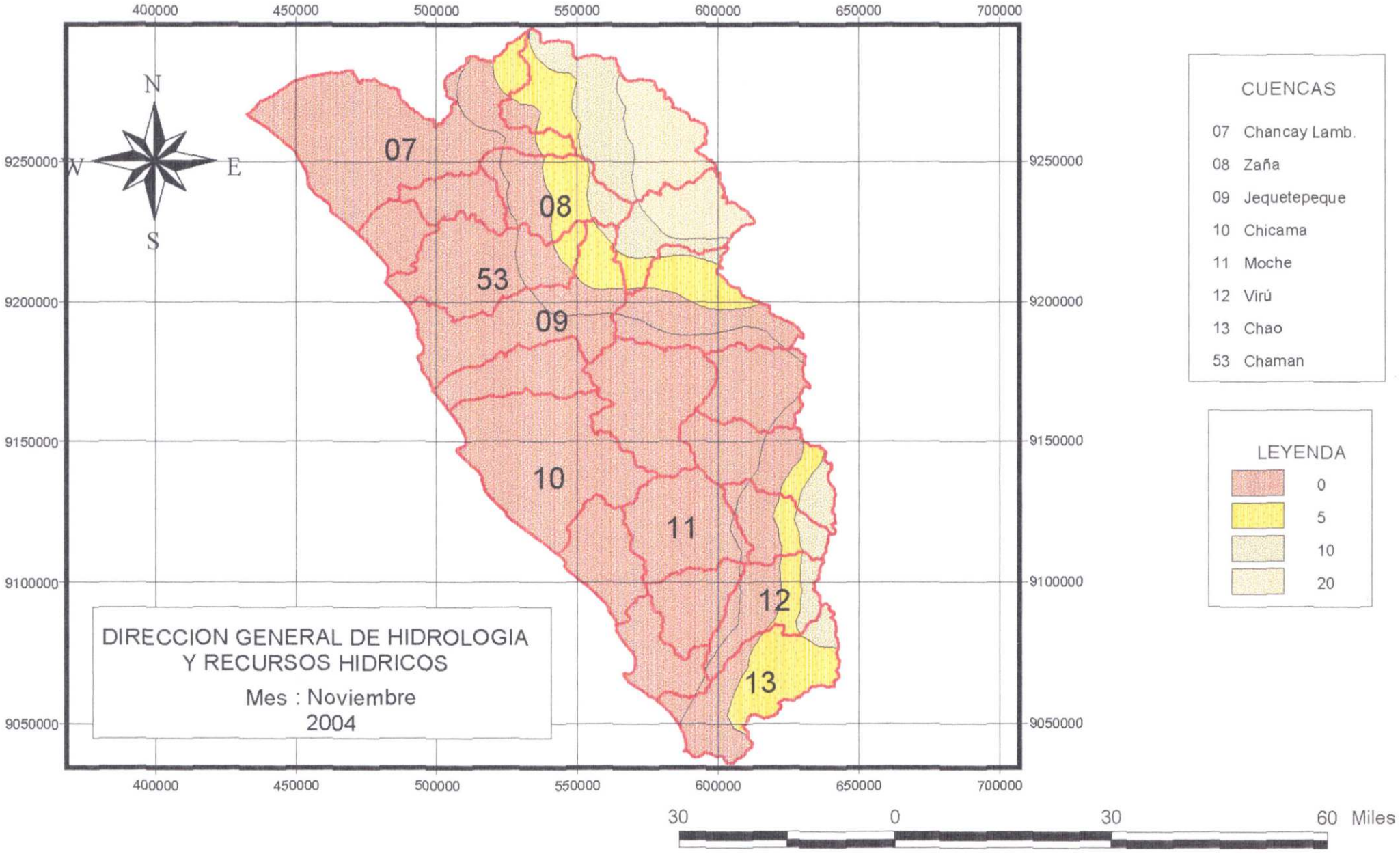
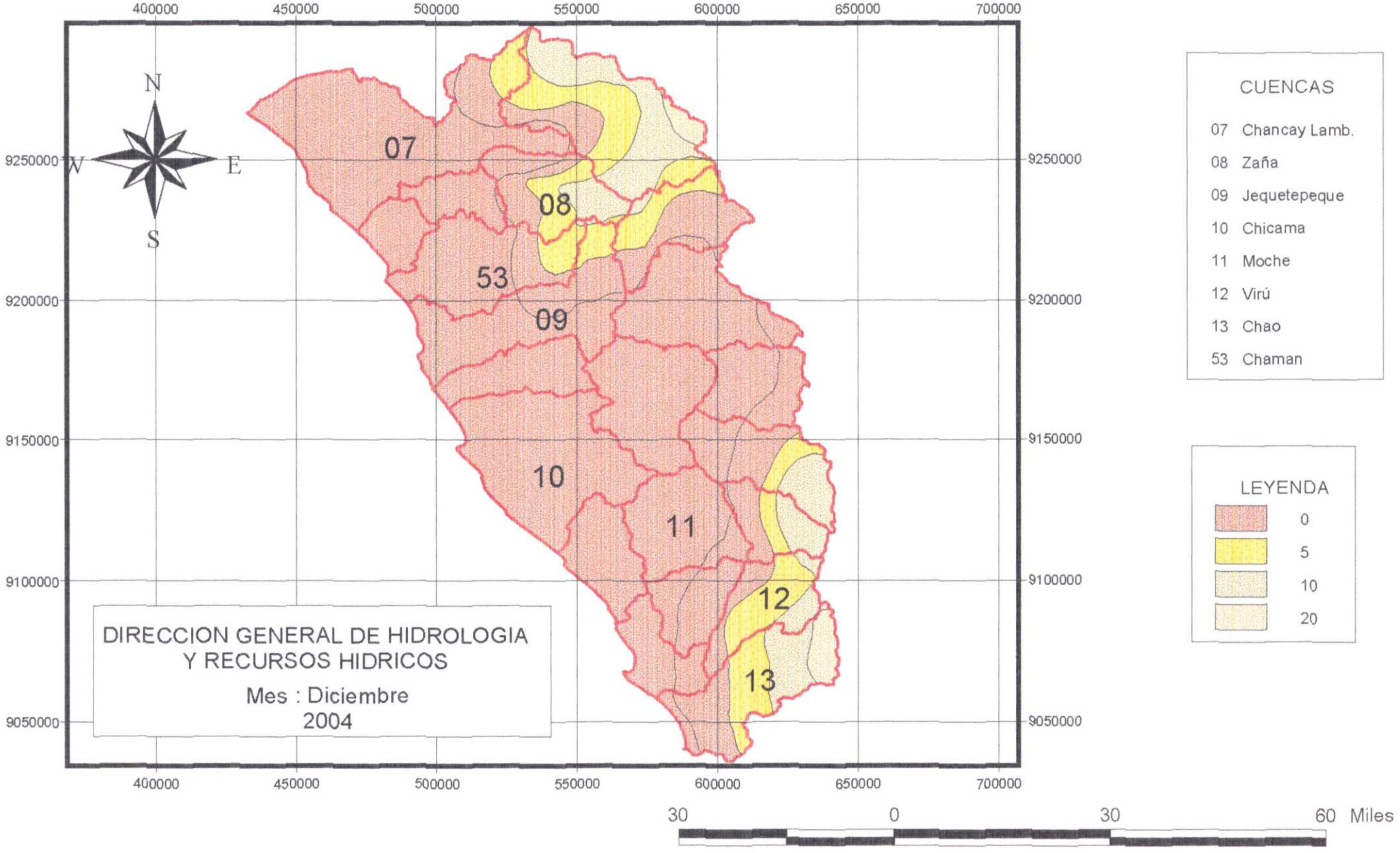
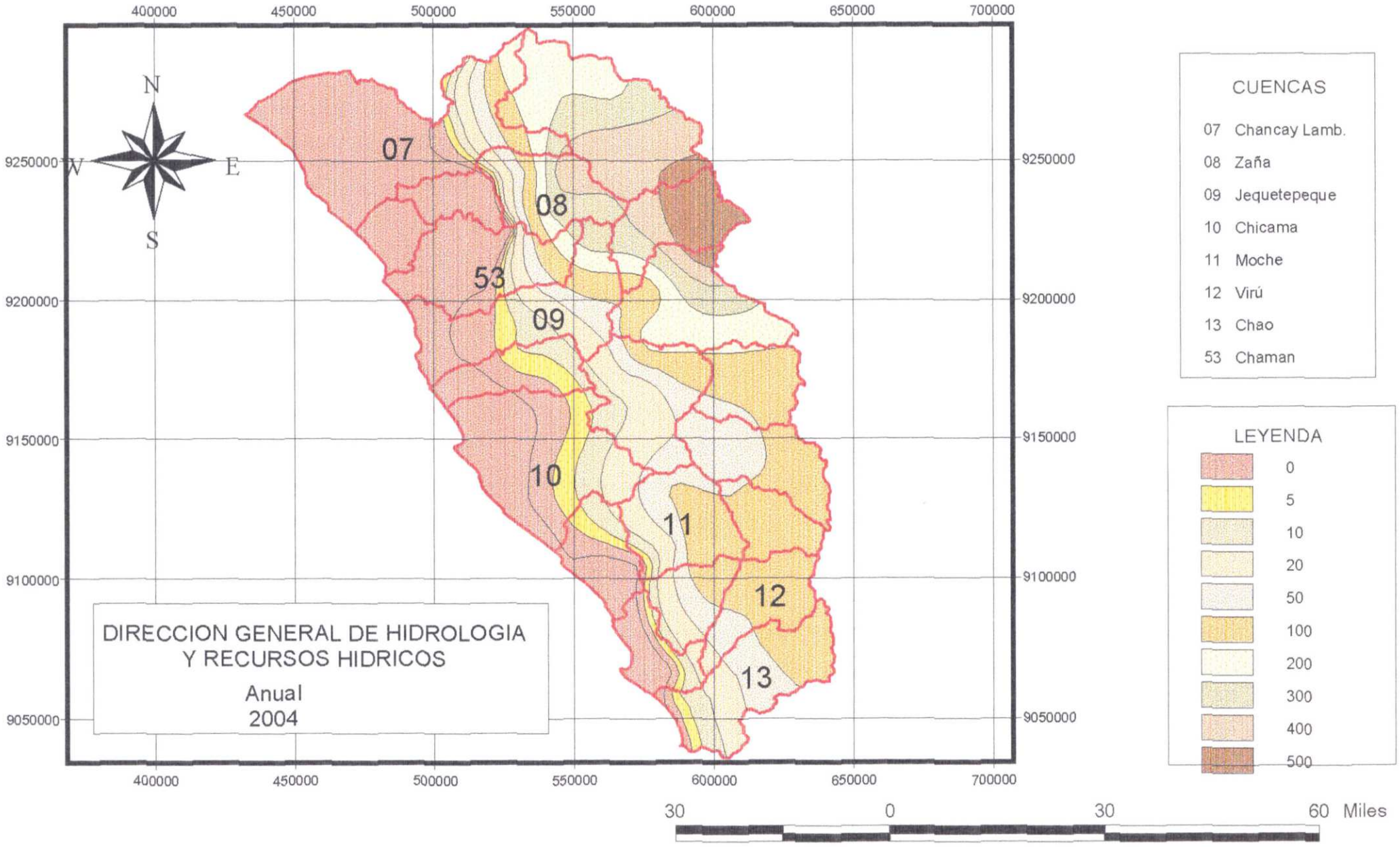


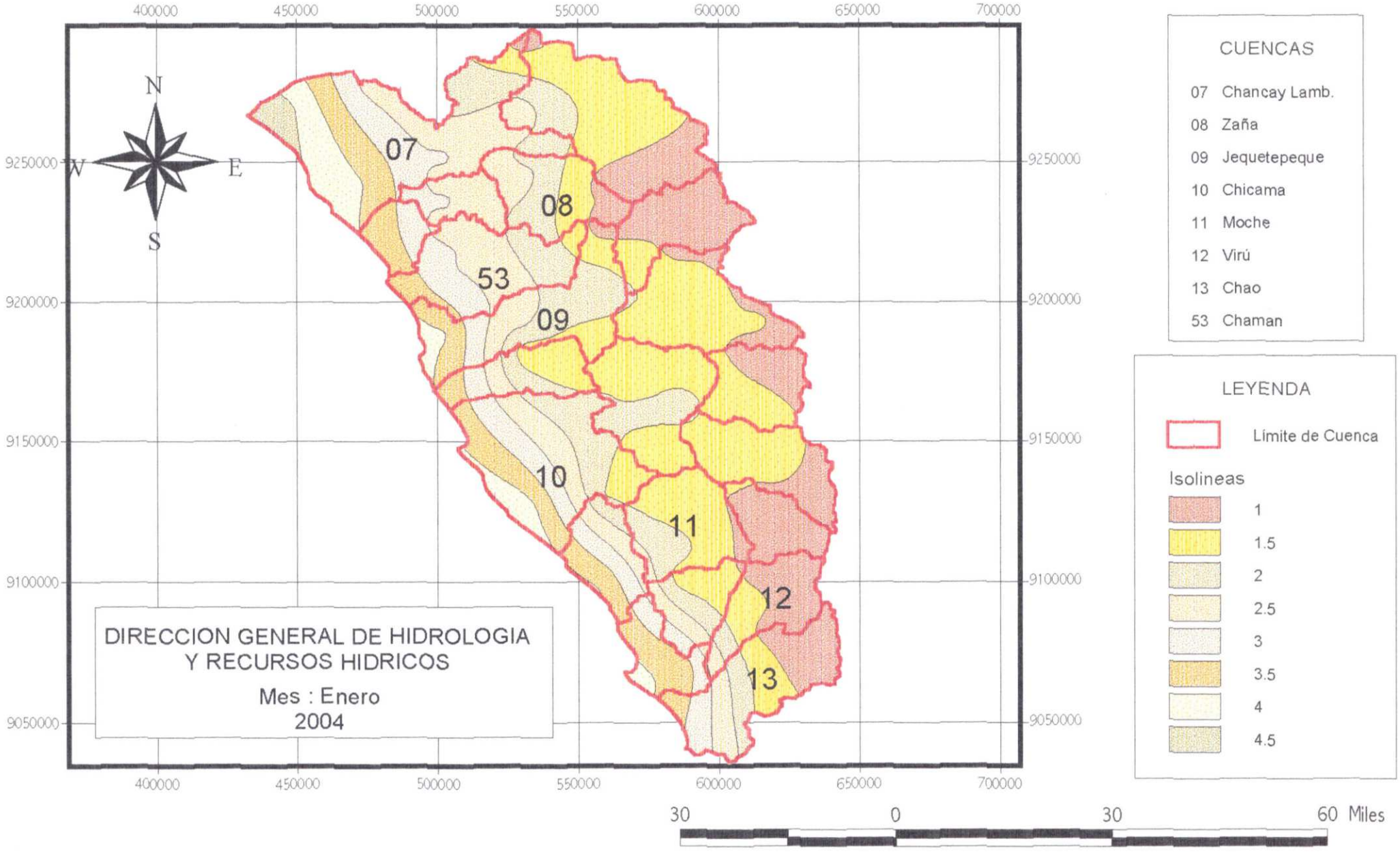
PRECIPITACION MINIMA



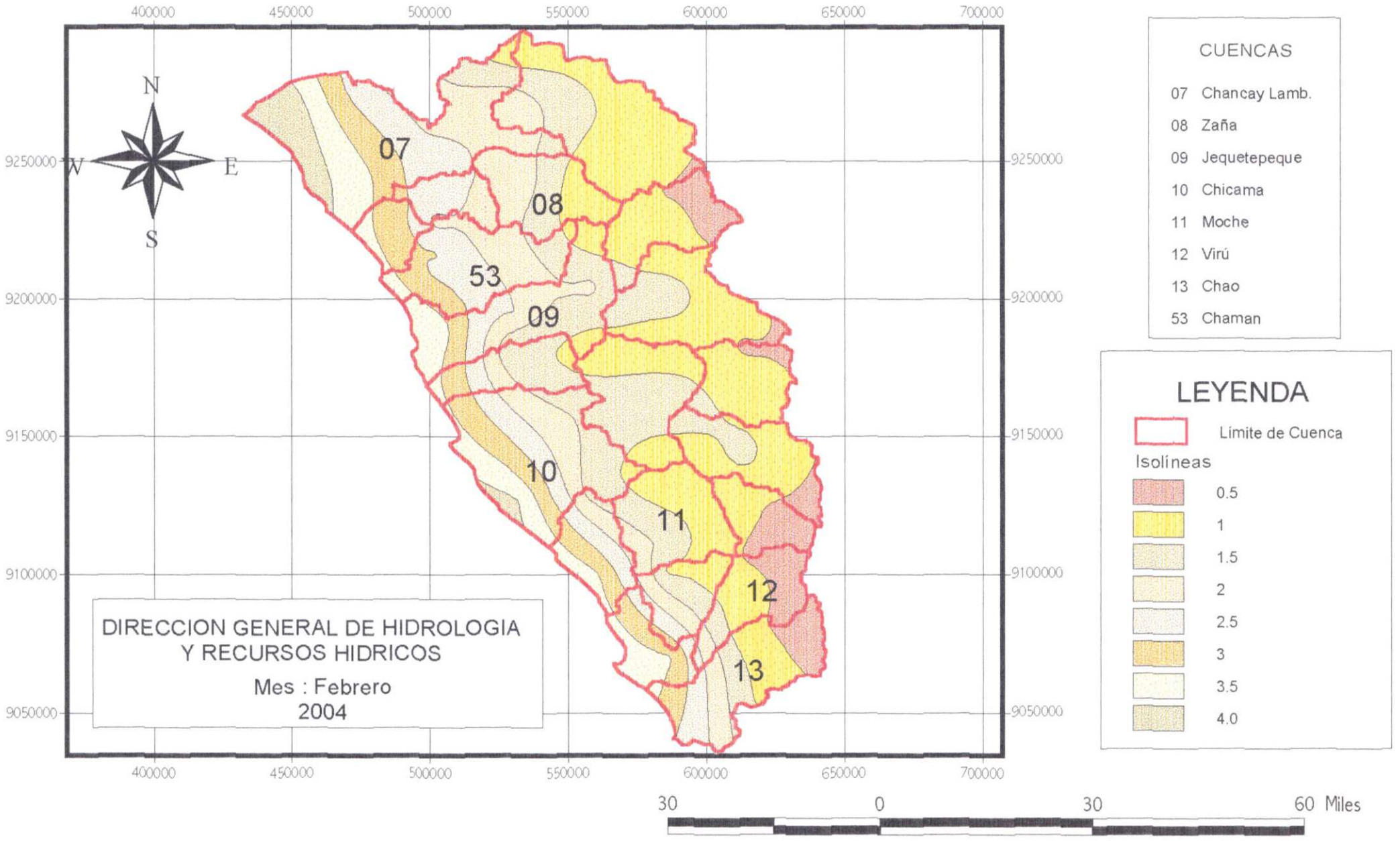
PRECIPITACION MINIMA



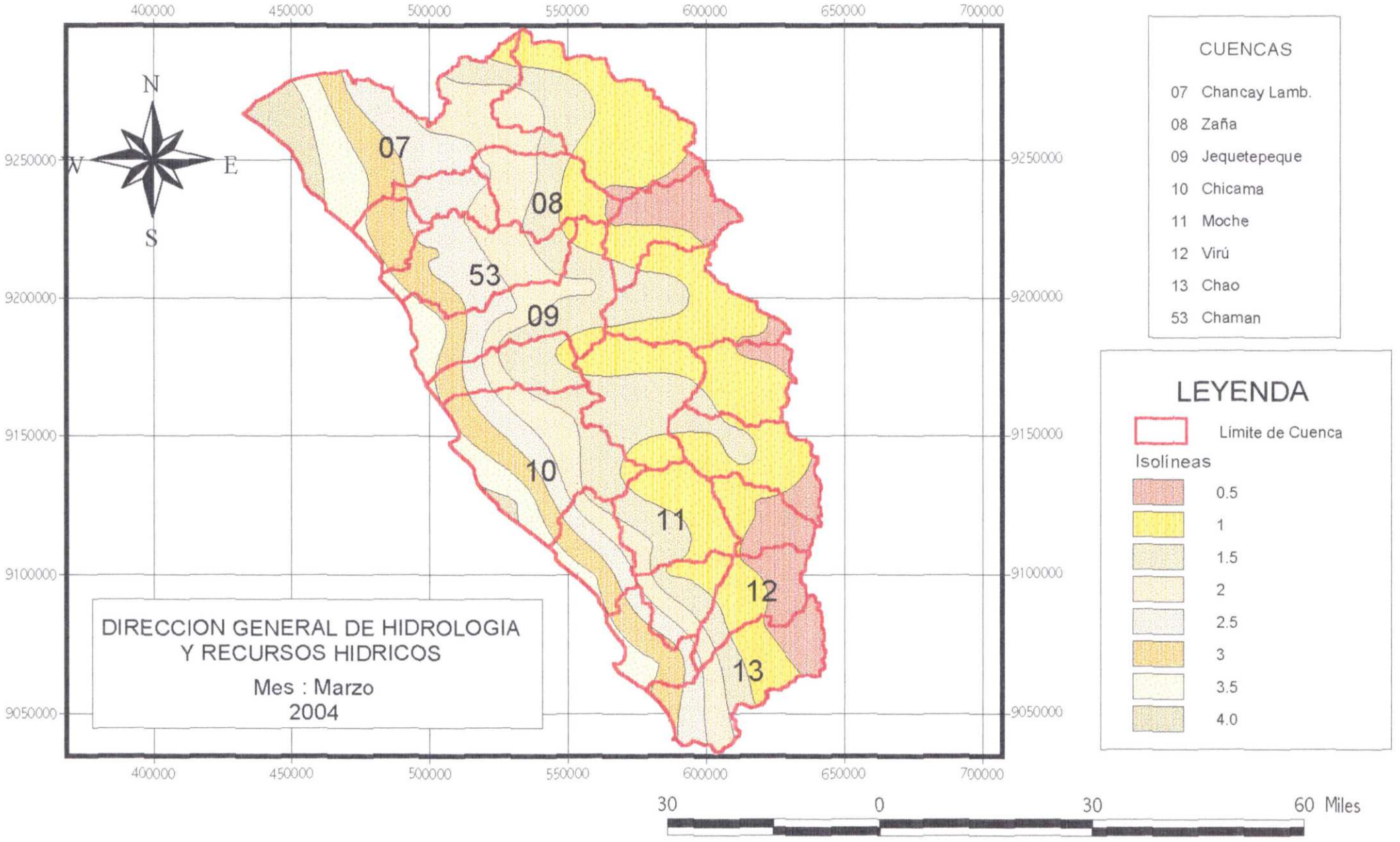
VELOCIDAD DE VIENTO



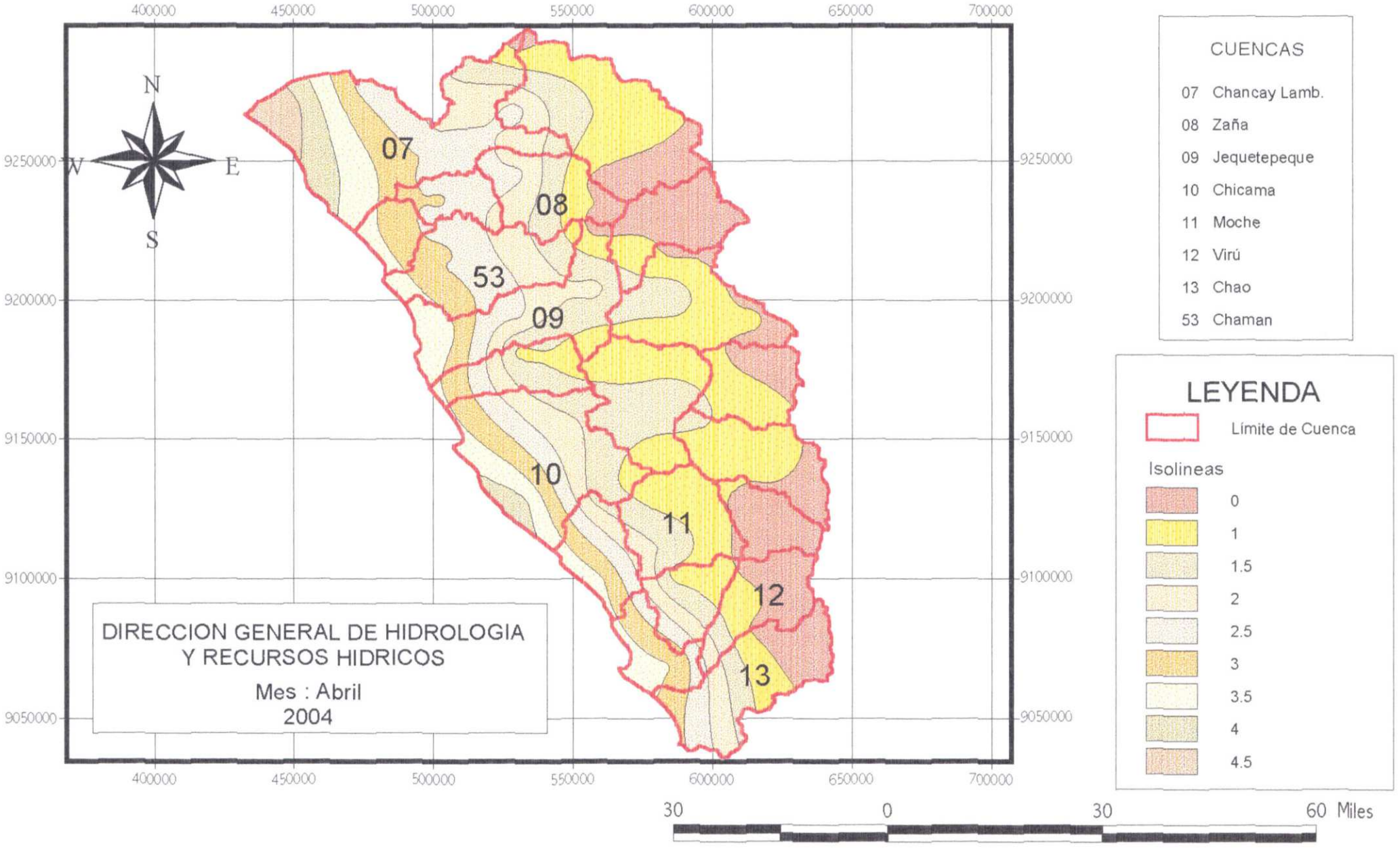
VELOCIDAD DE VIENTO



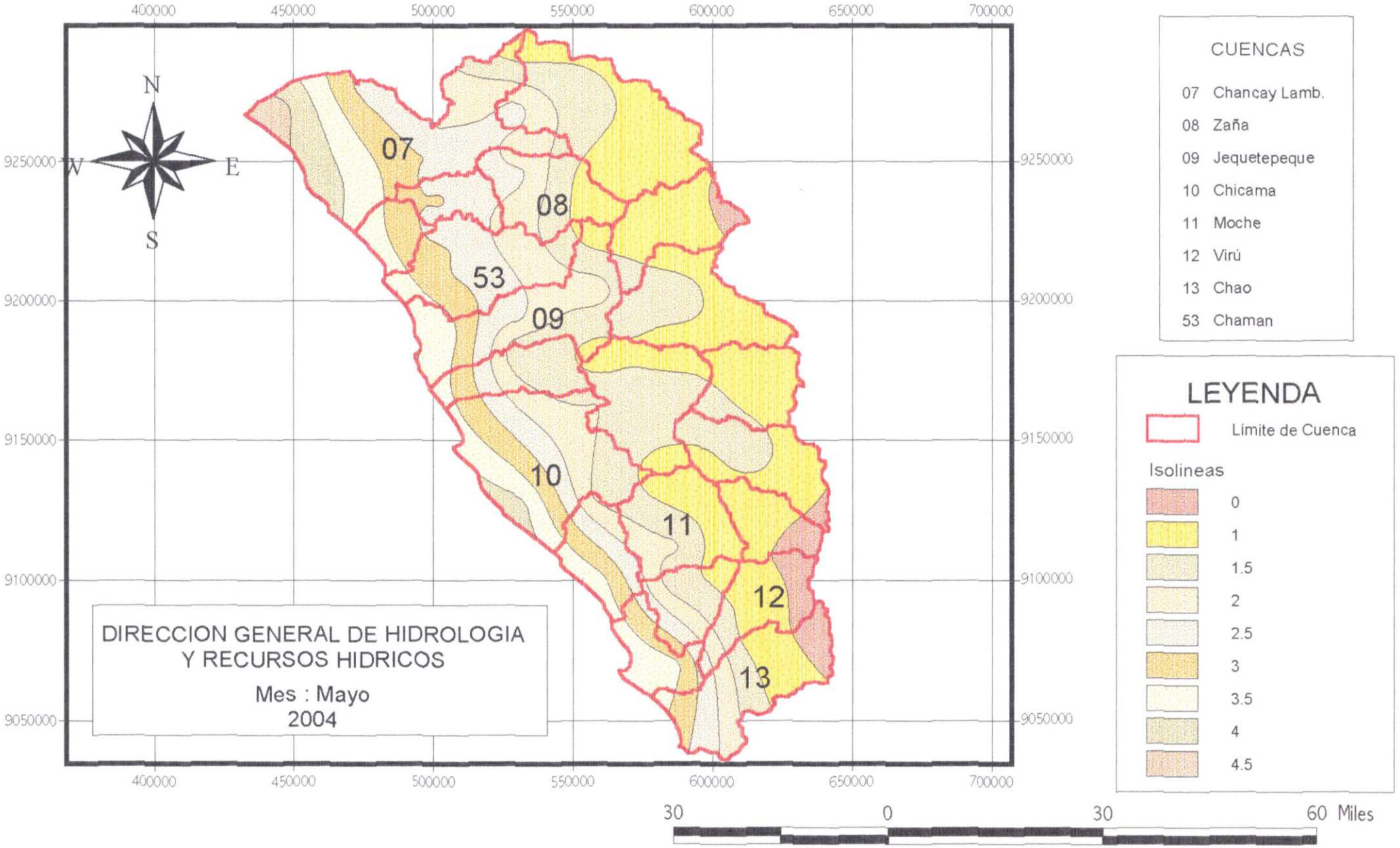
VELOCIDAD DE VIENTO



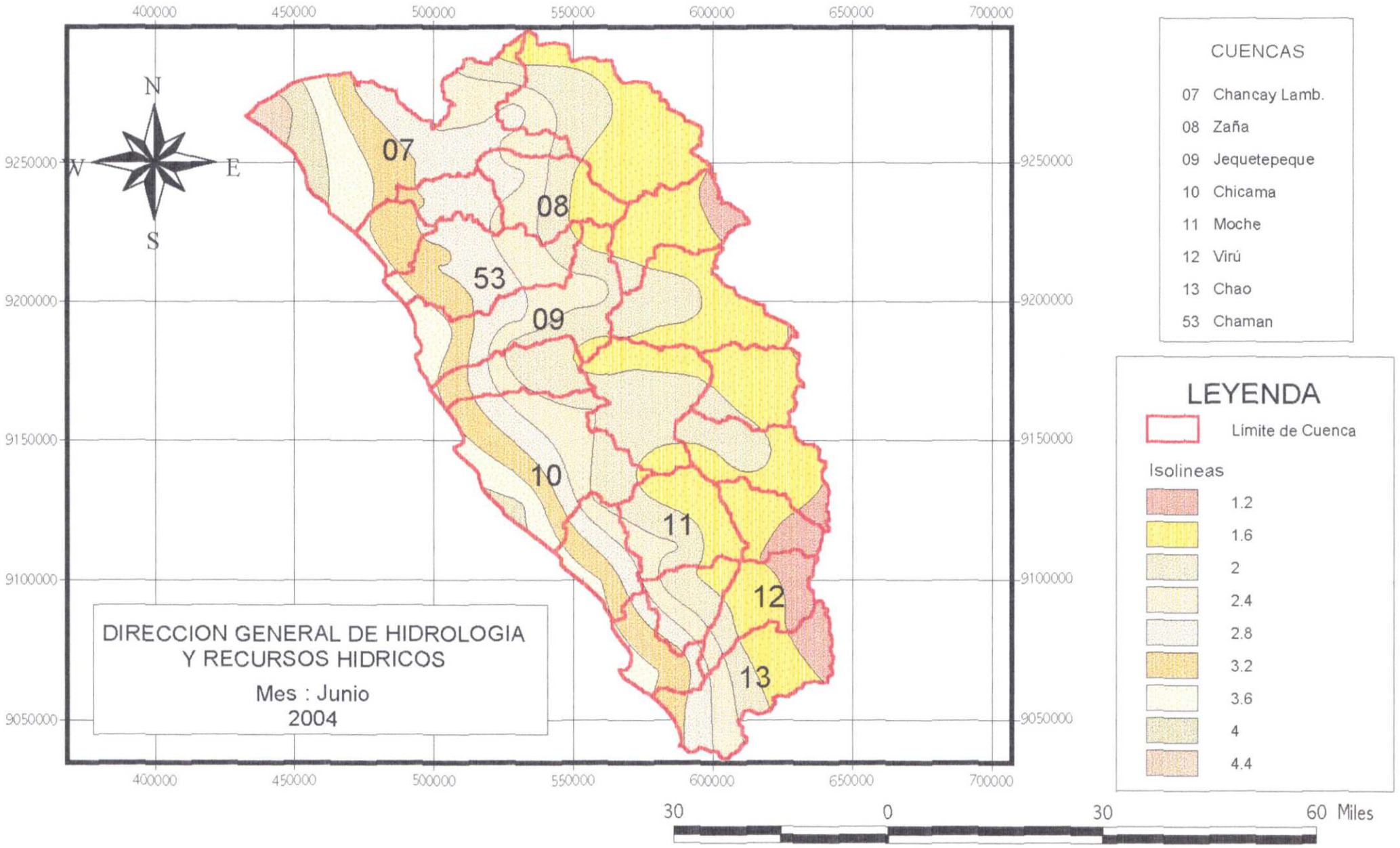
VELOCIDAD DE VIENTO



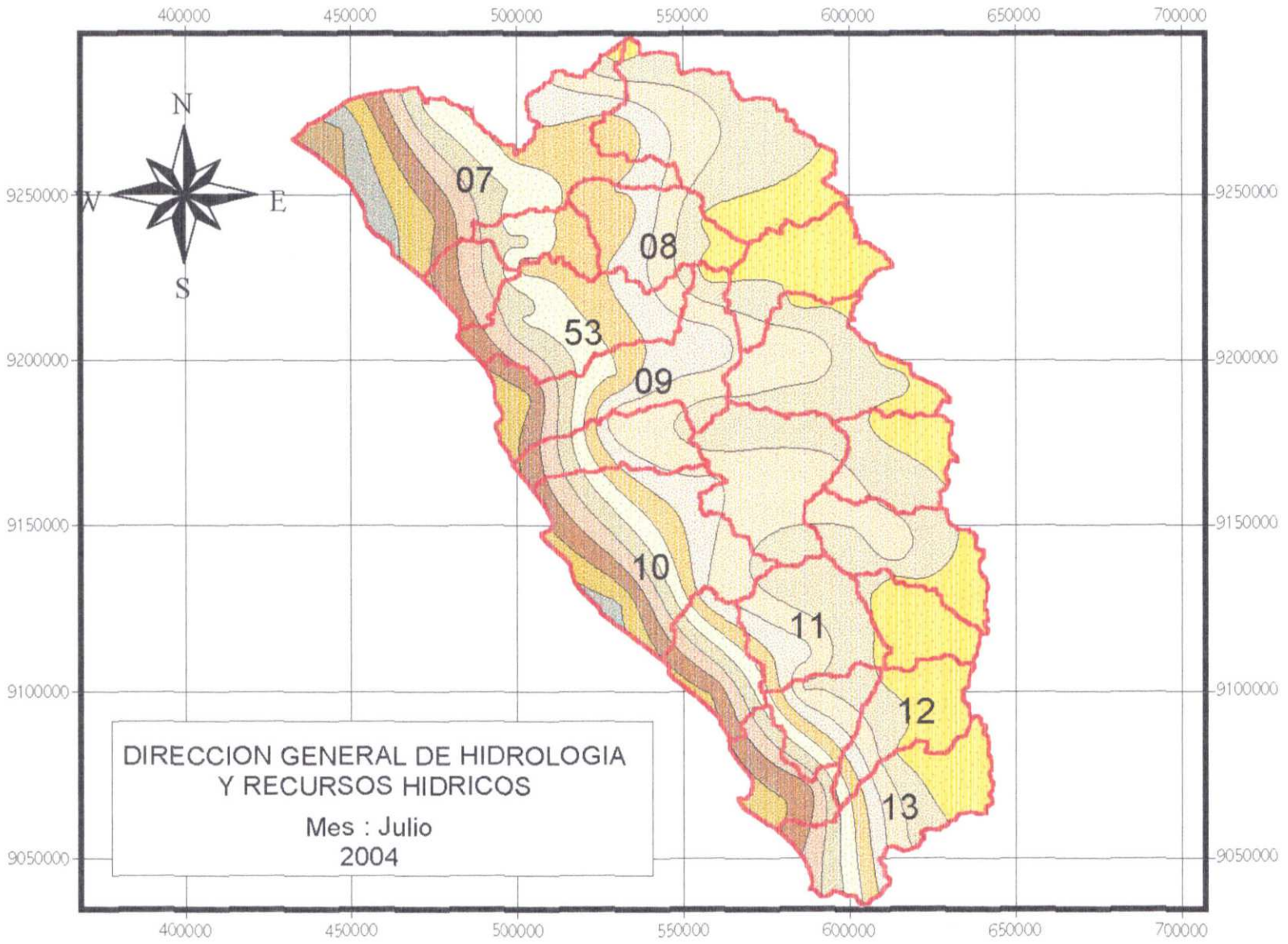
VELOCIDAD DE VIENTO



VELOCIDAD DE VIENTO



VELOCIDAD DE VIENTO



CUENCAS

07	Chancay Lamb.
08	Zaña
09	Jequetepeque
10	Chicama
11	Moche
12	Virú
13	Chao
53	Chaman

LEYENDA

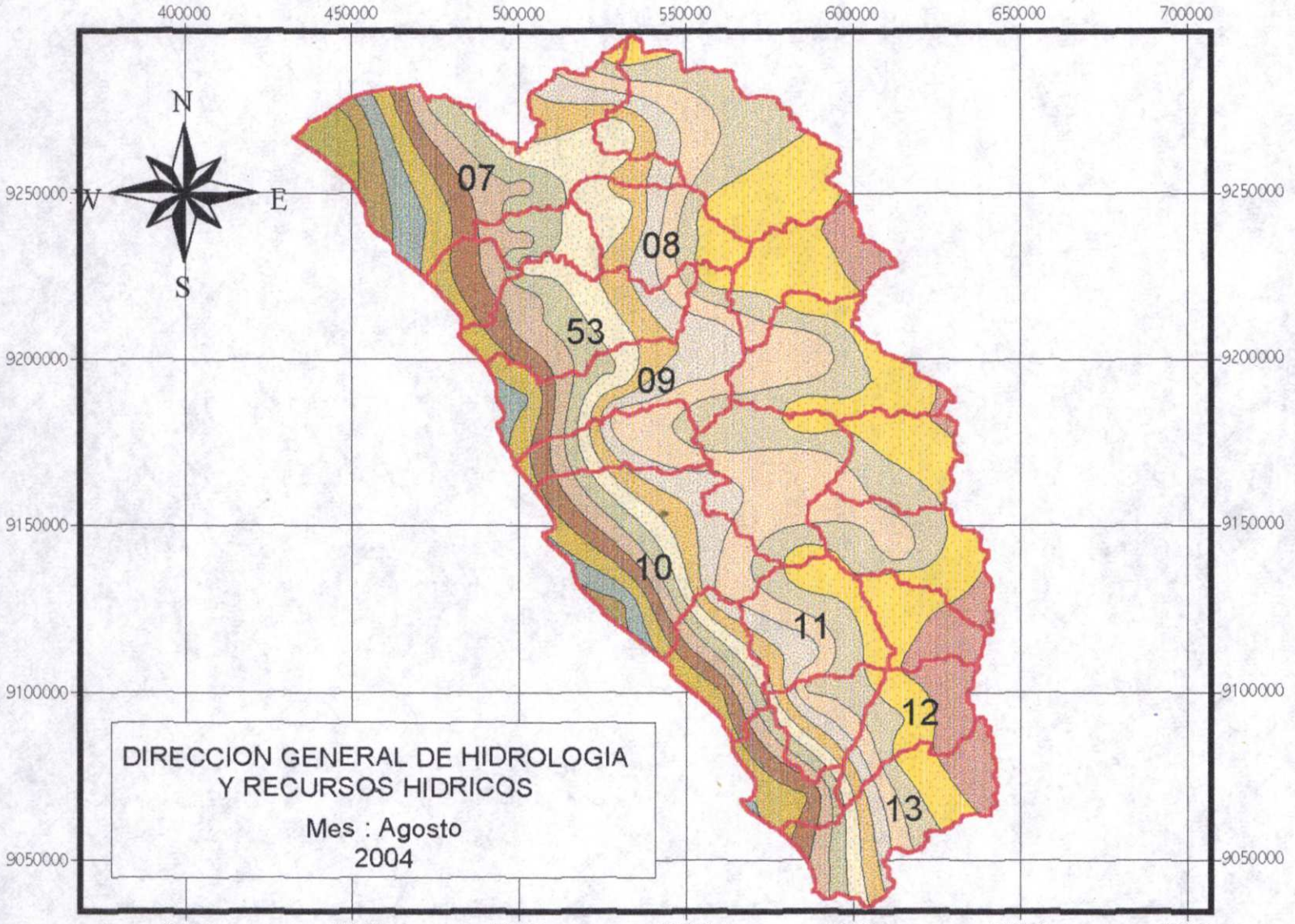
Límite de Cuenca

Isolineas

- 2
- 2.2
- 2.4
- 2.6
- 2.8
- 3
- 3.2
- 3.4
- 3.6
- 3.8
- 4
- 4.2
- 4.4

30 0 30 60 Miles

VELOCIDAD DE VIENTO



CUENCAS

07 Chancay Lamb.
08 Zaña
09 Jequetepeque
10 Chicama
11 Moche
12 Virú
13 Chao
53 Chaman

LEYENDA

Limite de Cuenca

Isolineas

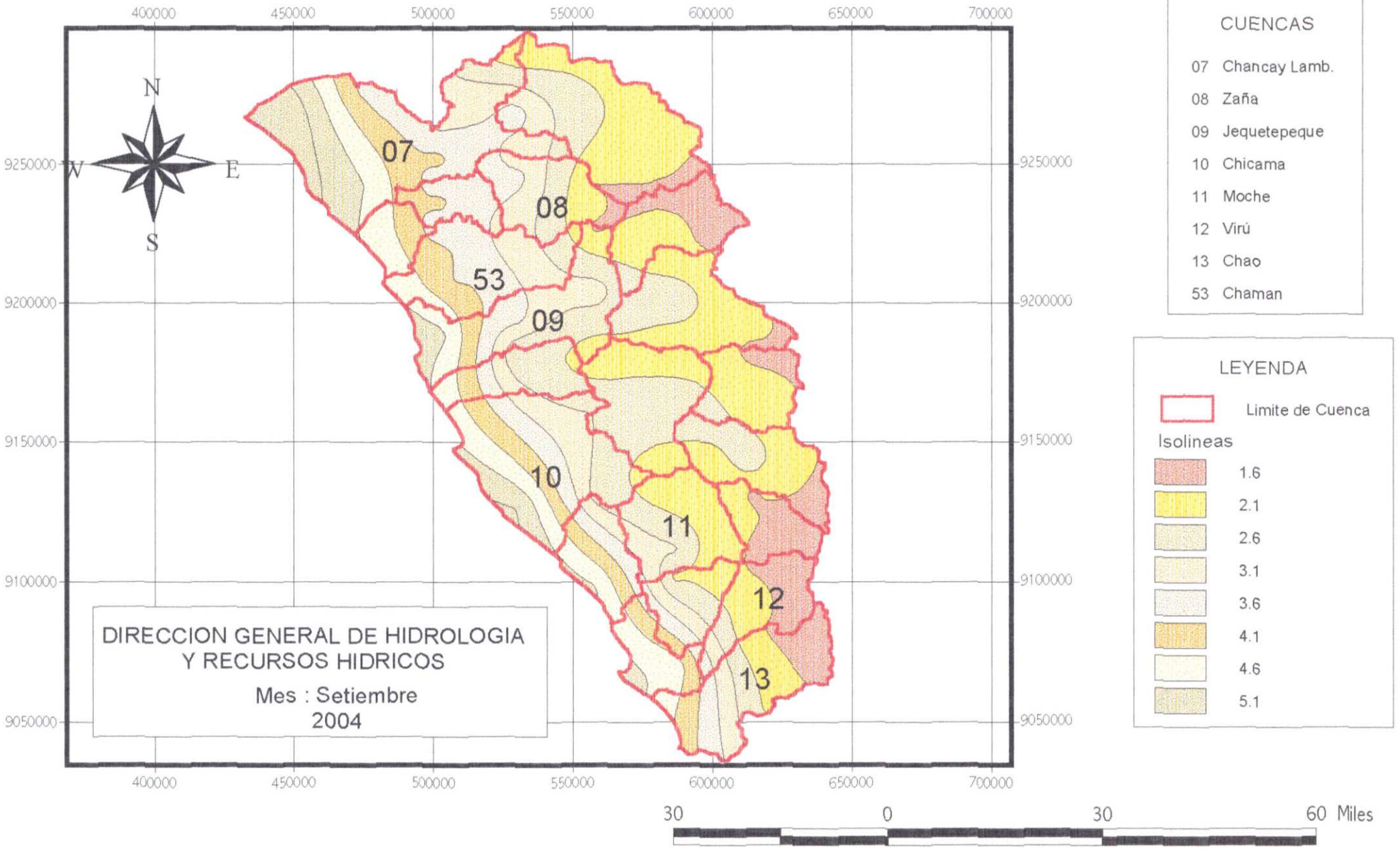
1.8
2
2.2
2.4
2.6
2.8
3
3.2
3.4
3.6
3.8
4
4.2
4.4

DIRECCION GENERAL DE HIDROLOGIA
Y RECURSOS HIDRICOS

Mes : Agosto
2004

30 0 30 60 Miles

VELOCIDAD DE VIENTO



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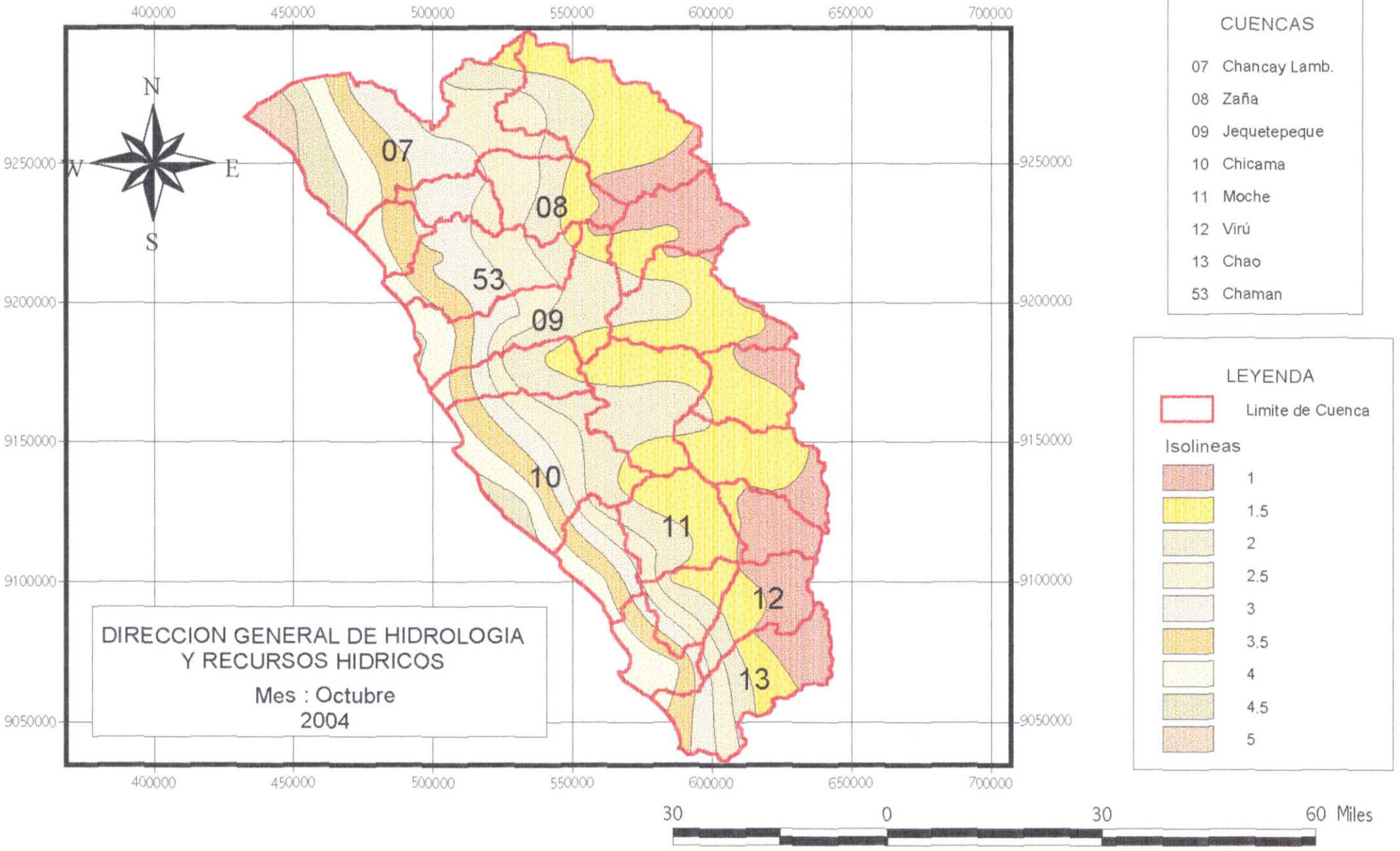

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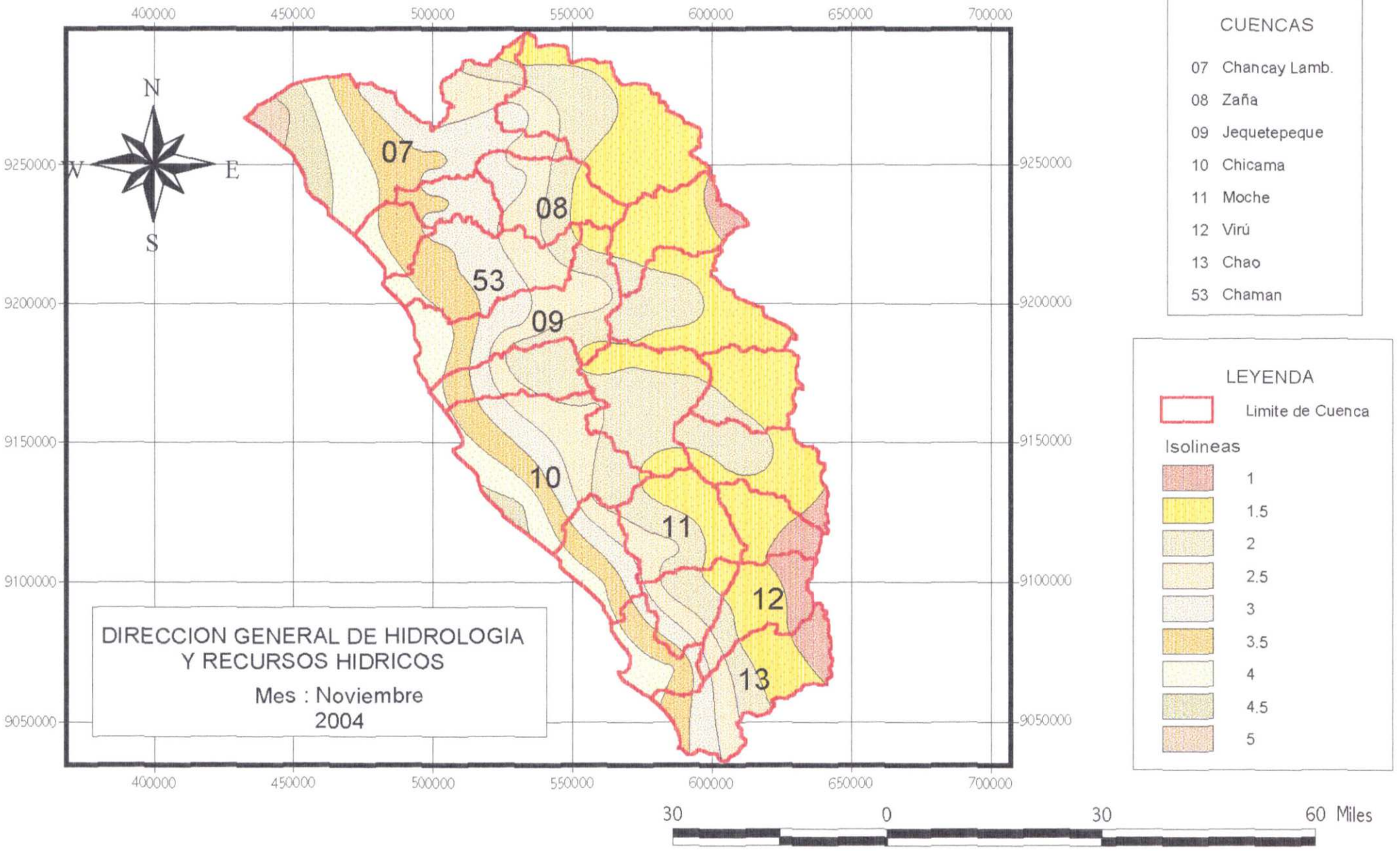

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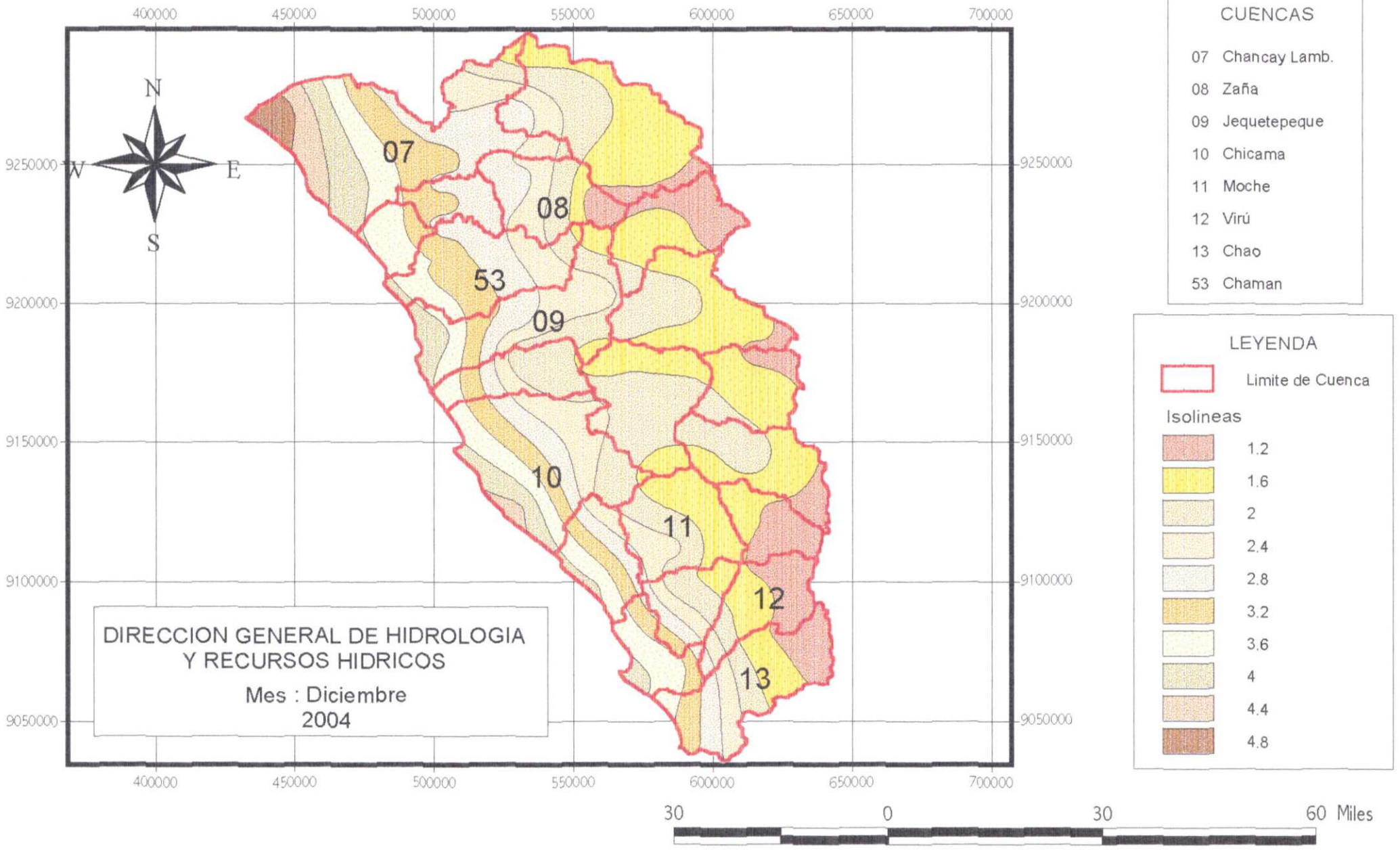

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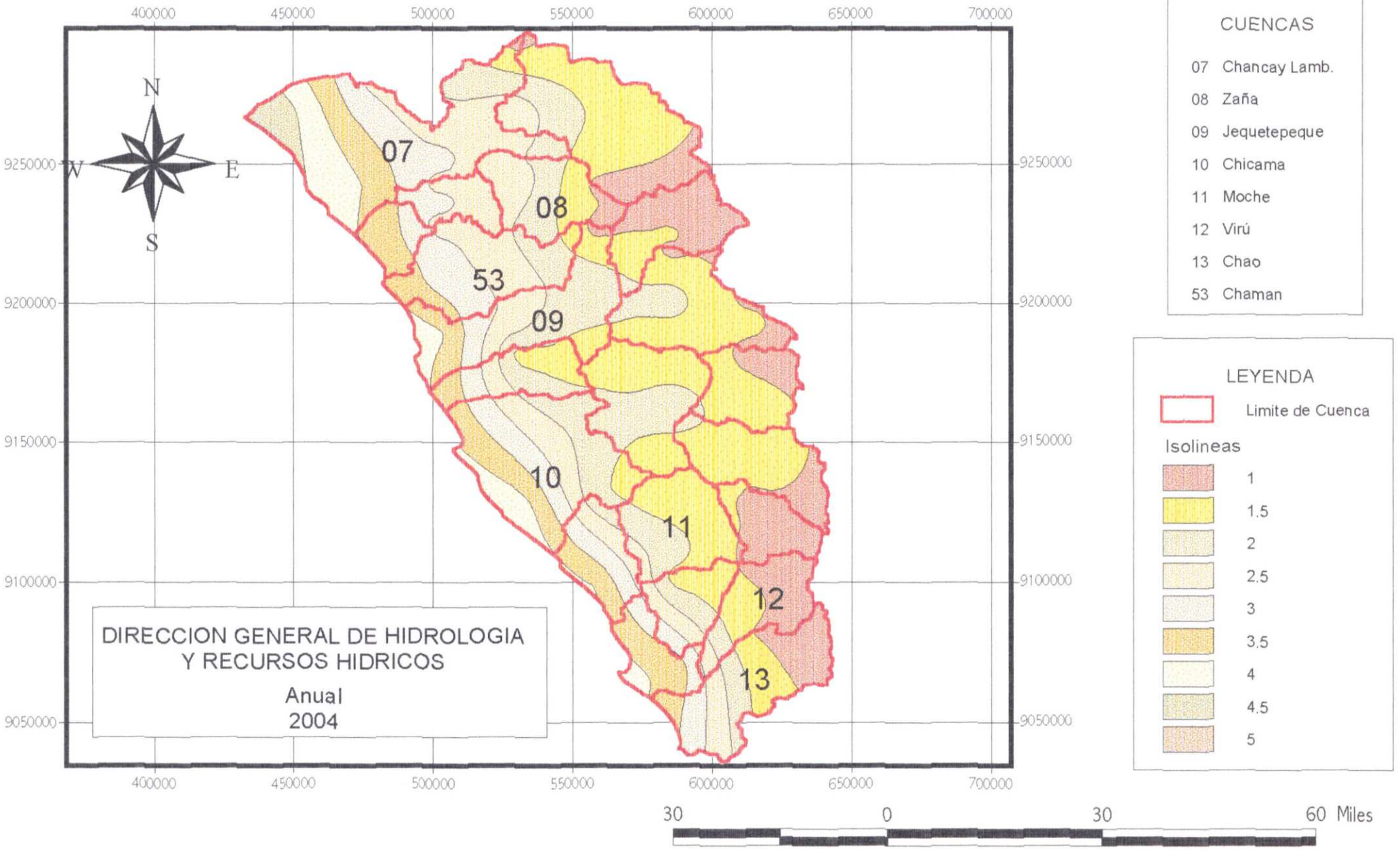
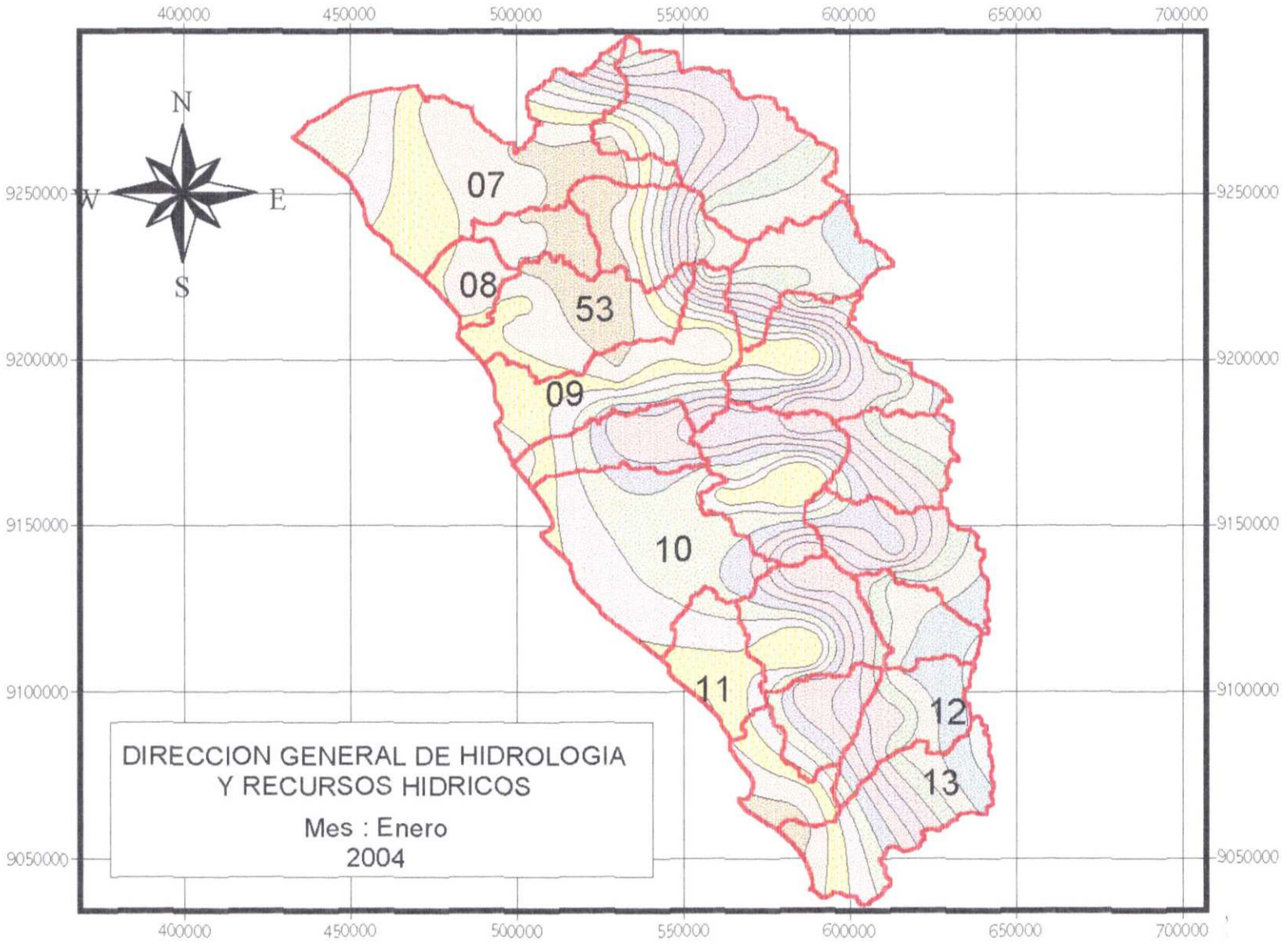


EVAPORACION



CUENCAS

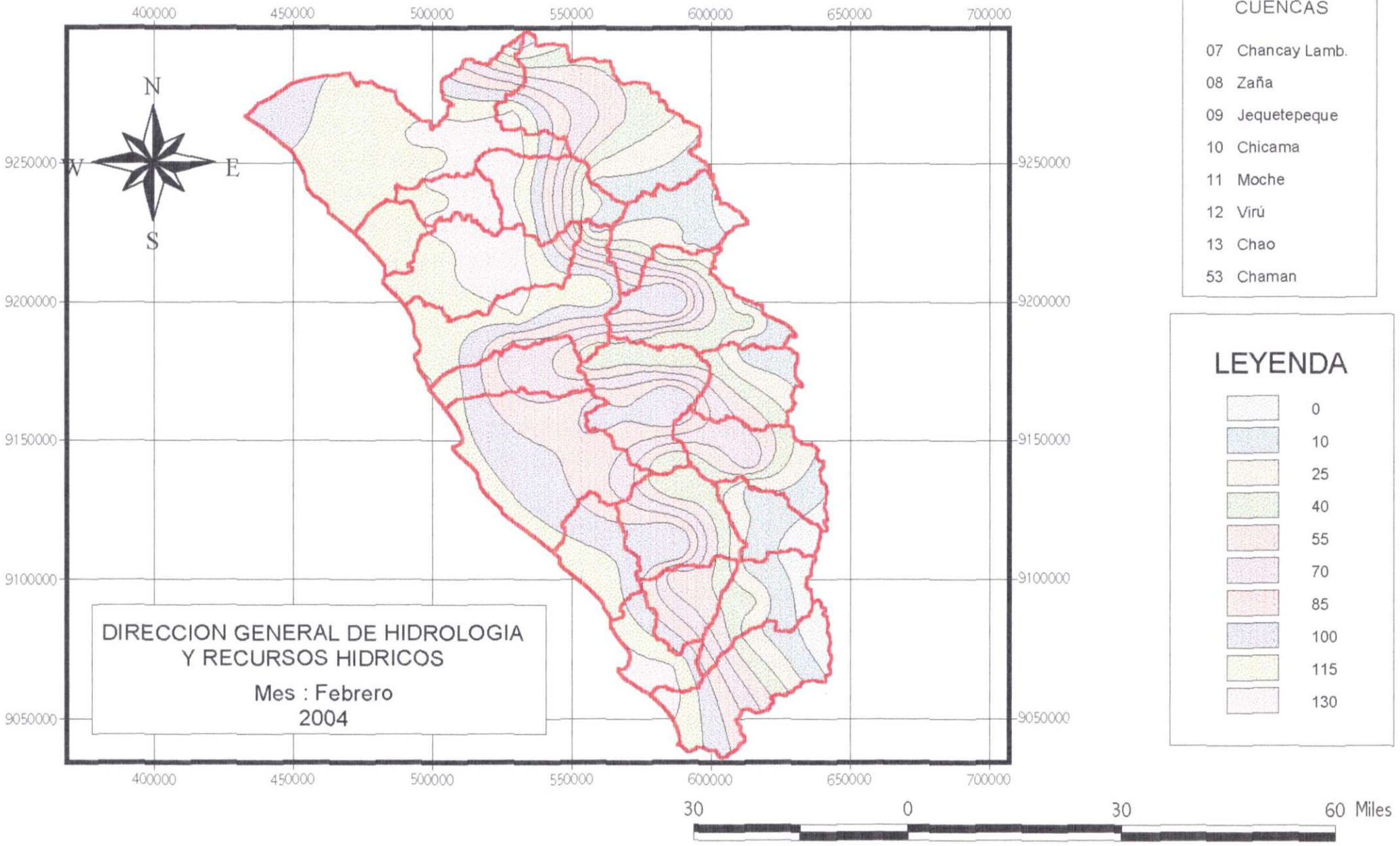
07	Chancay Lamb.
08	Zaña
09	Jequetepeque
10	Chicama
11	Moche
12	Virú
13	Chao
53	Chaman

LEYENDA

0
10
25
40
55
70
85
100
115
130
145
160
175

30 0 30 60 Miles

EVAPORACION



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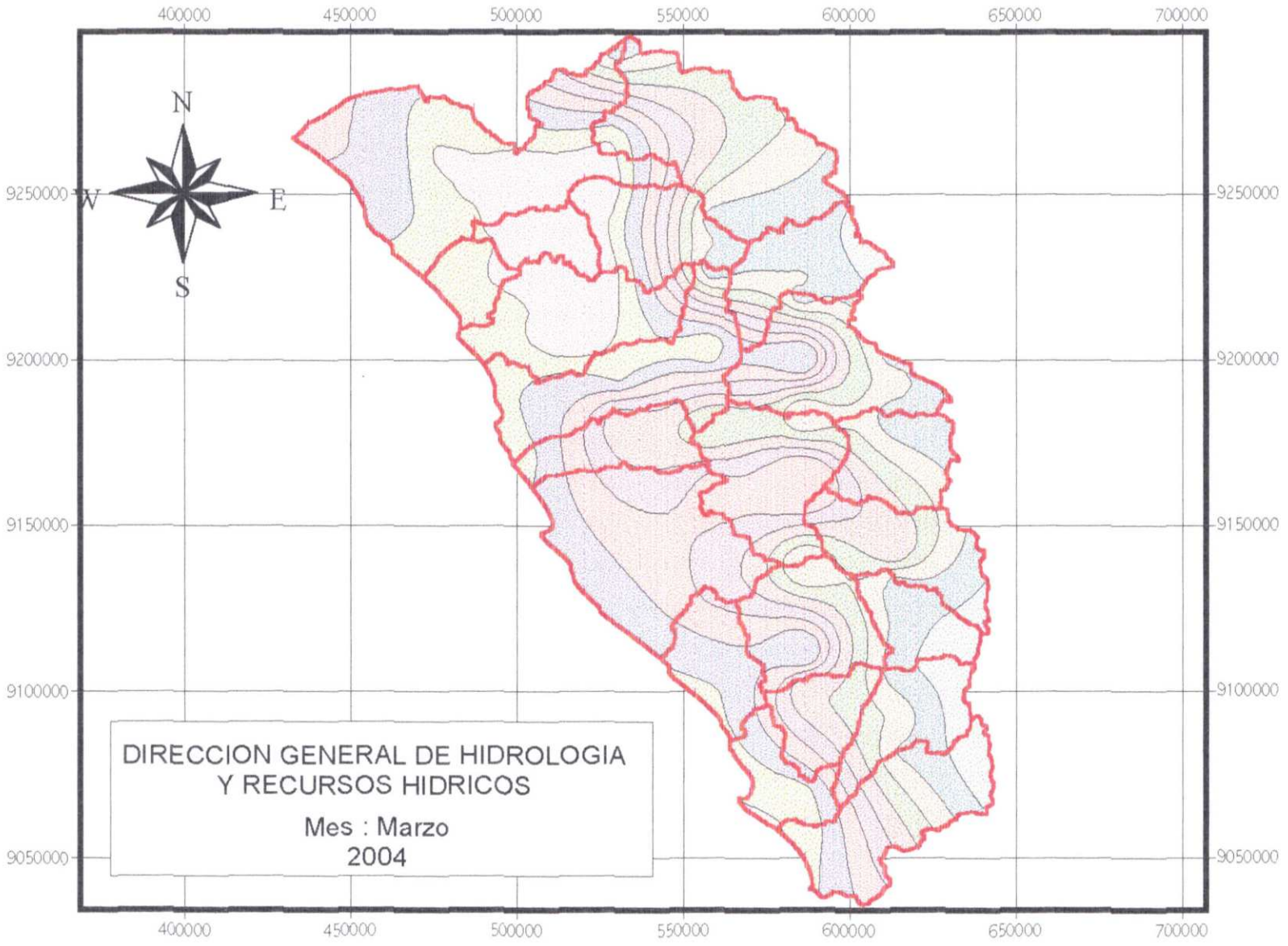


CUENCAS

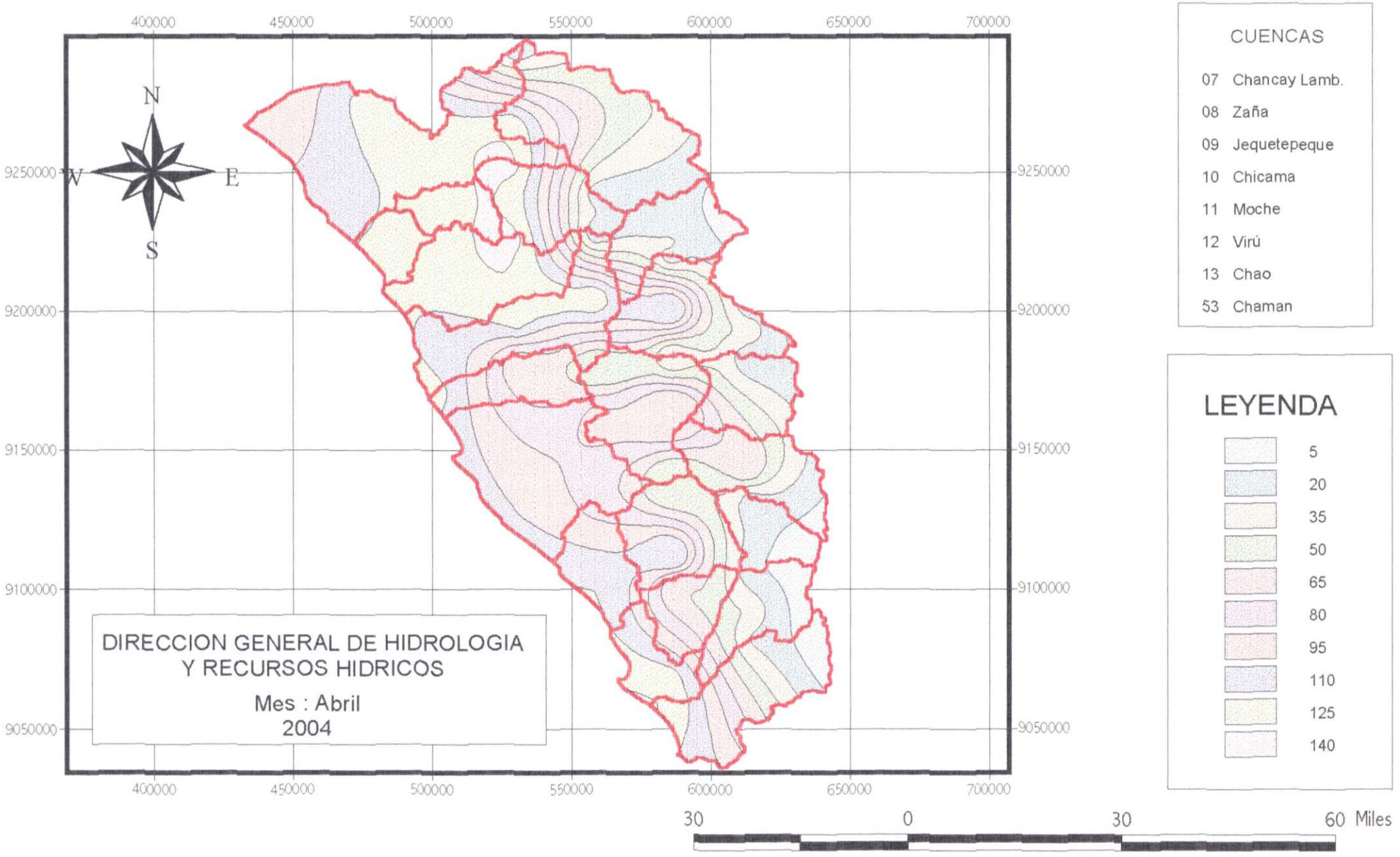
07 Chancay Lamb.
08 Zaña
09 Jequetepeque
10 Chicama
11 Moche
12 Virú
13 Chao
53 Chaman

LEYENDA

5
20
35
50
65
80
95
110
125
140

30 0 30 60 Miles

EVAPORACION



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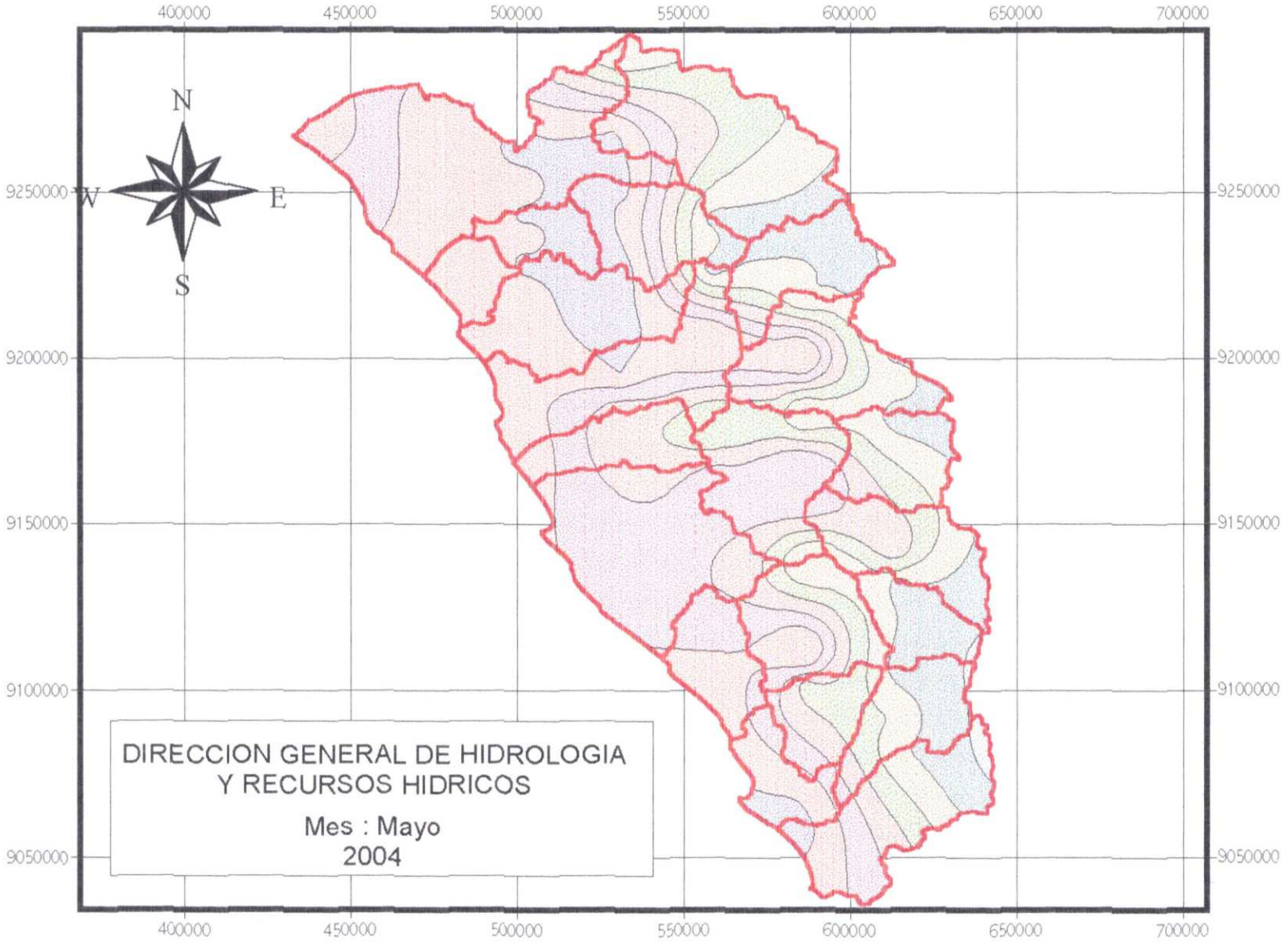


CUENCAS

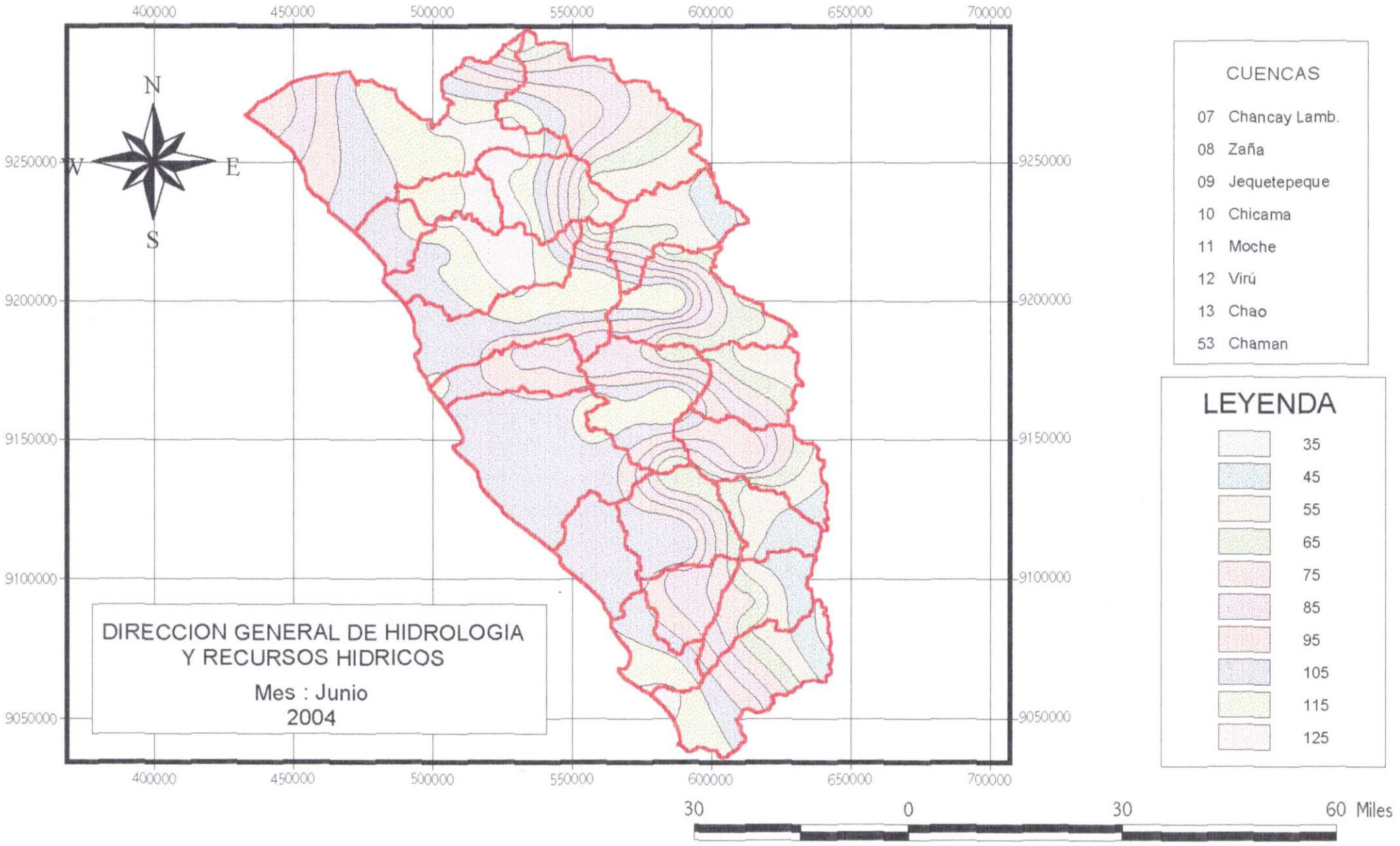
07 Chancay Lamb.
08 Zaña
09 Jequetepeque
10 Chicama
11 Moche
12 Virú
13 Chao
53 Chaman

LEYENDA

20
35
50
65
80
95
110
125

30 0 30 60 Miles

EVAPORACION



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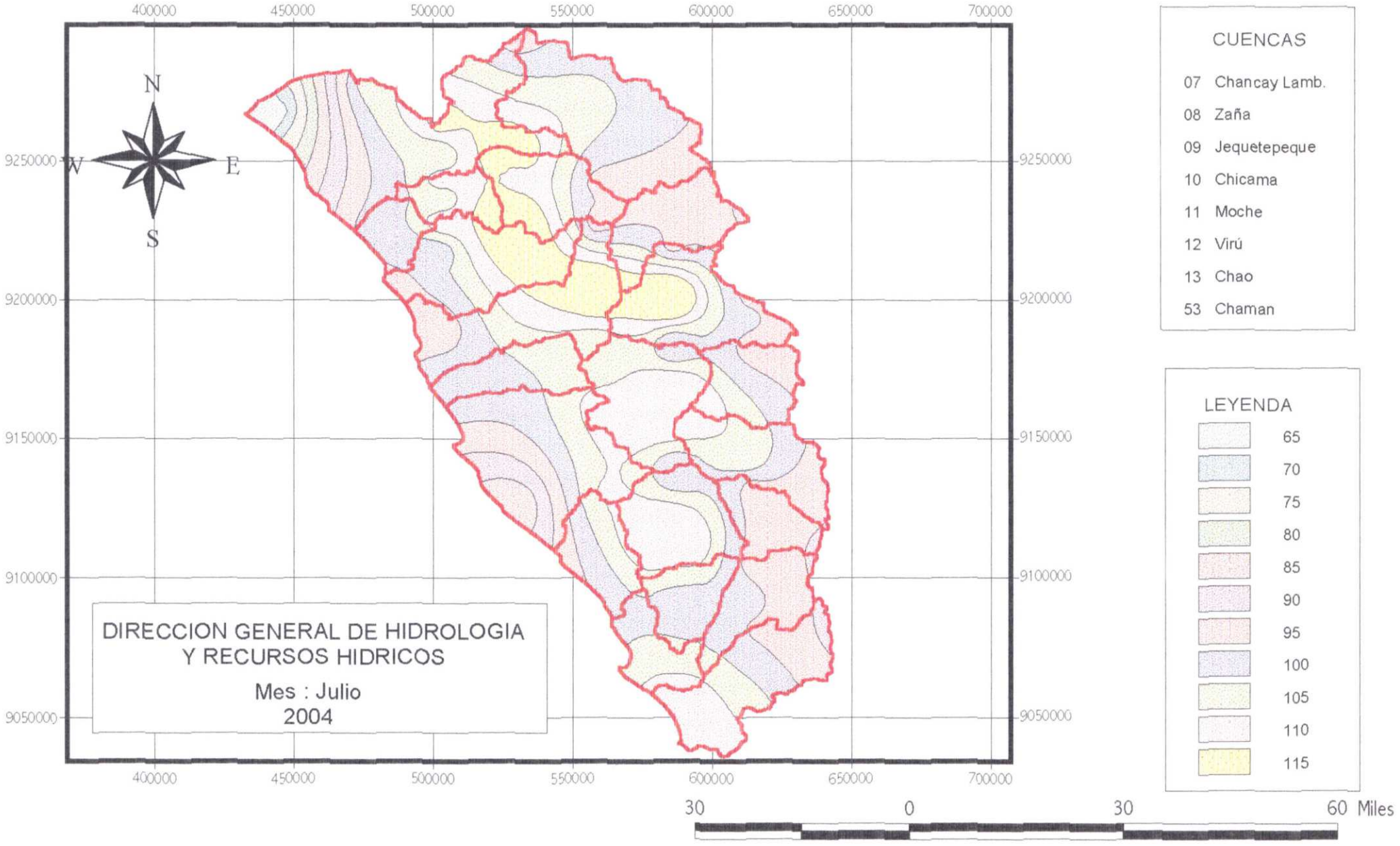

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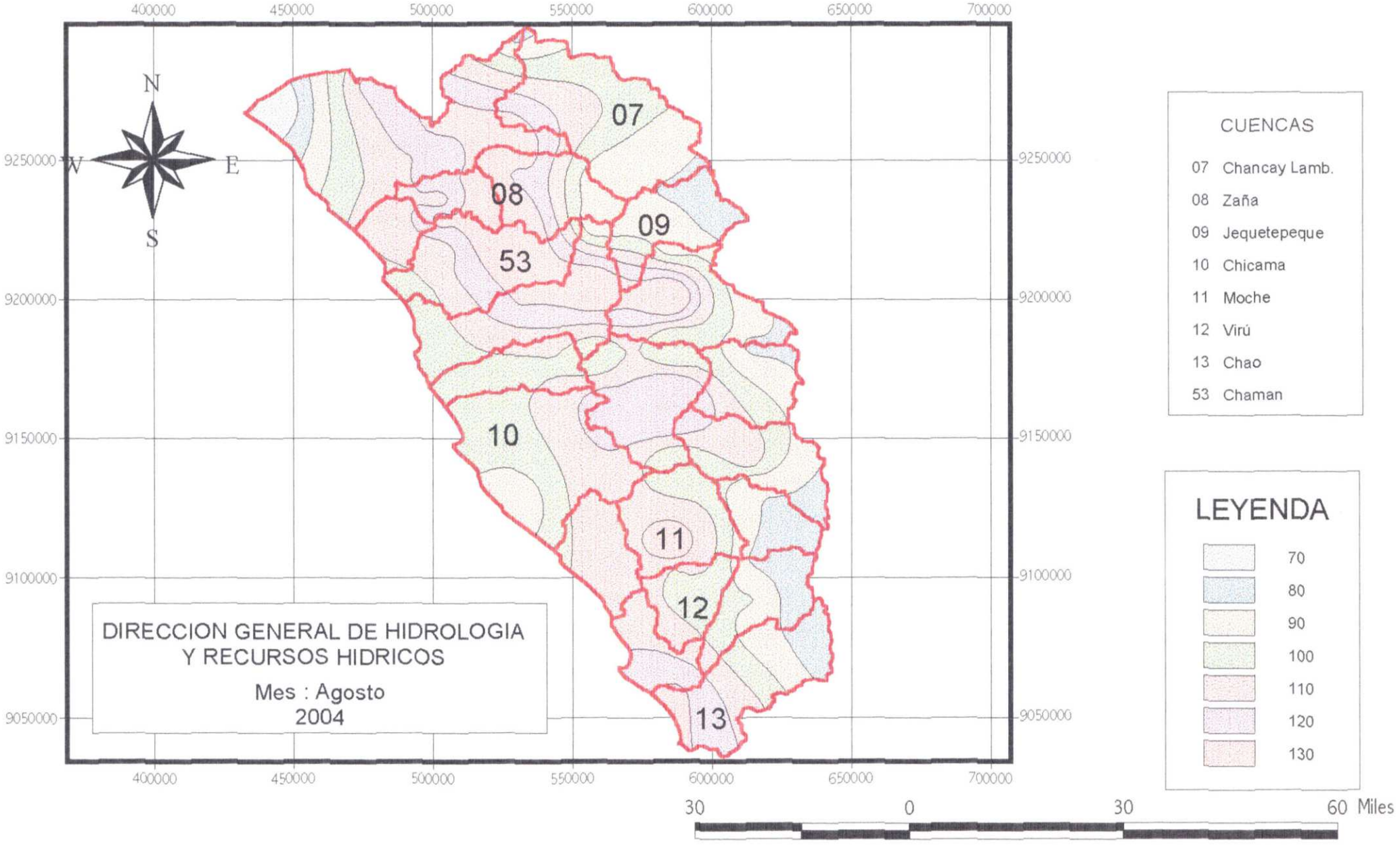

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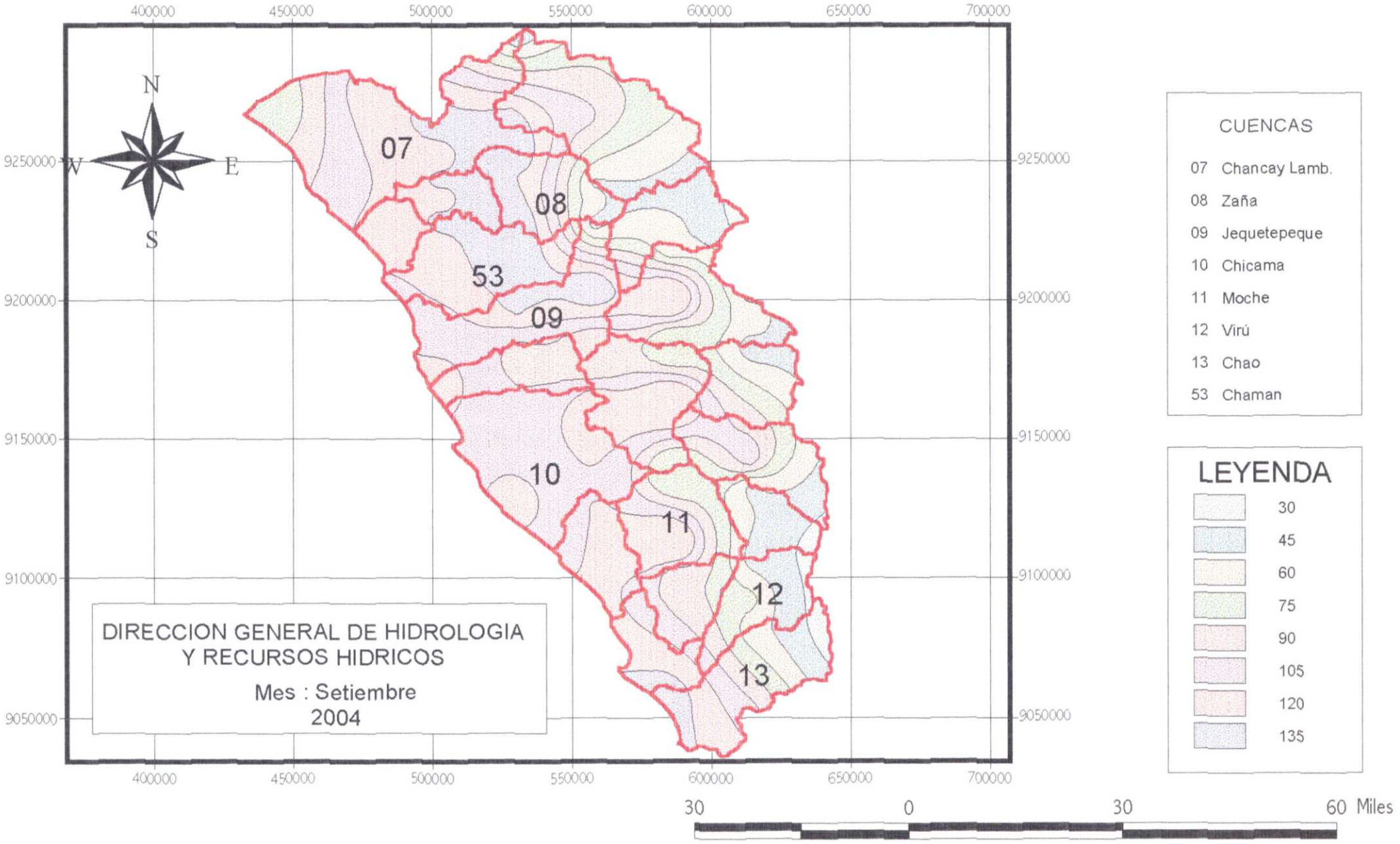

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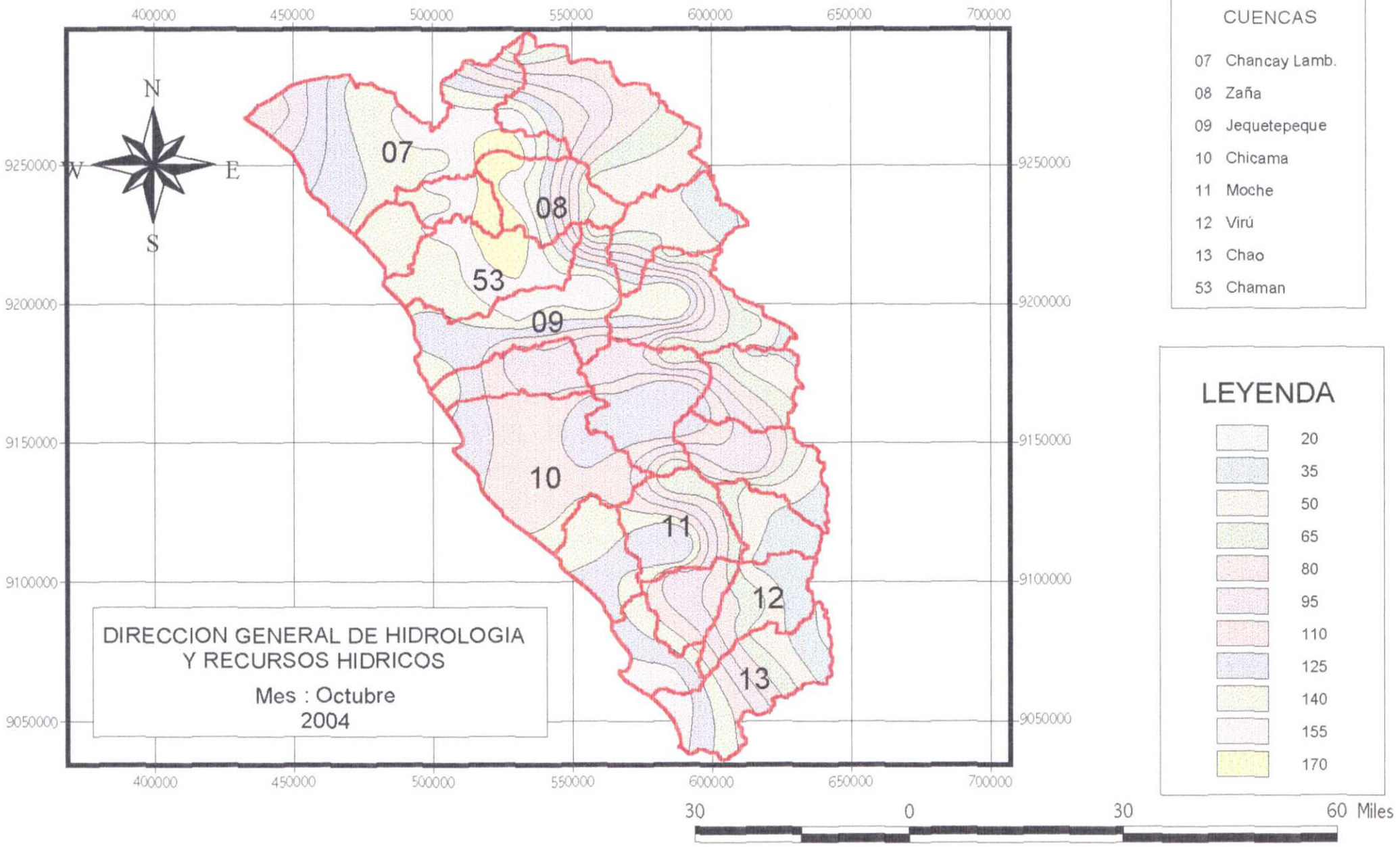

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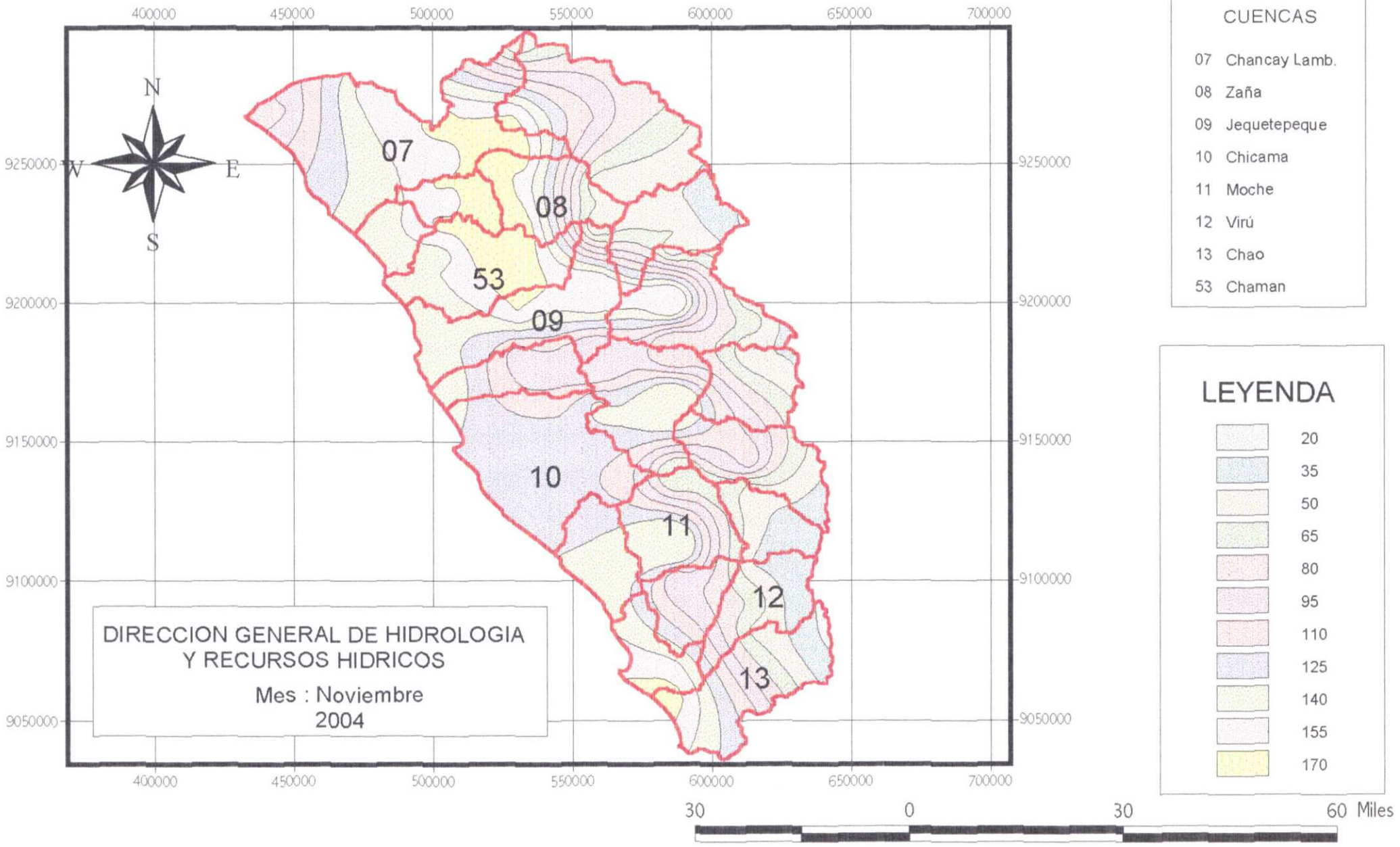

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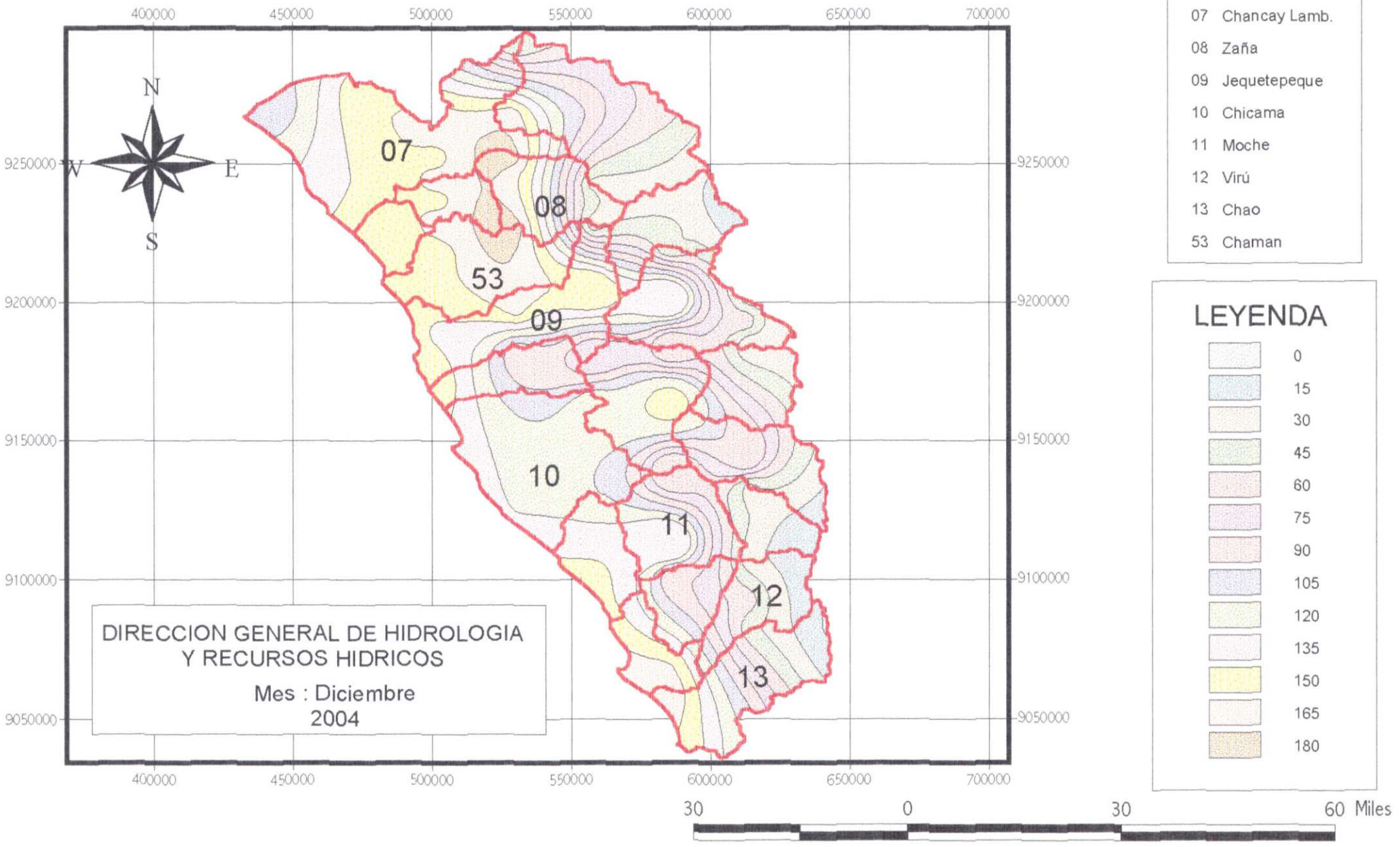

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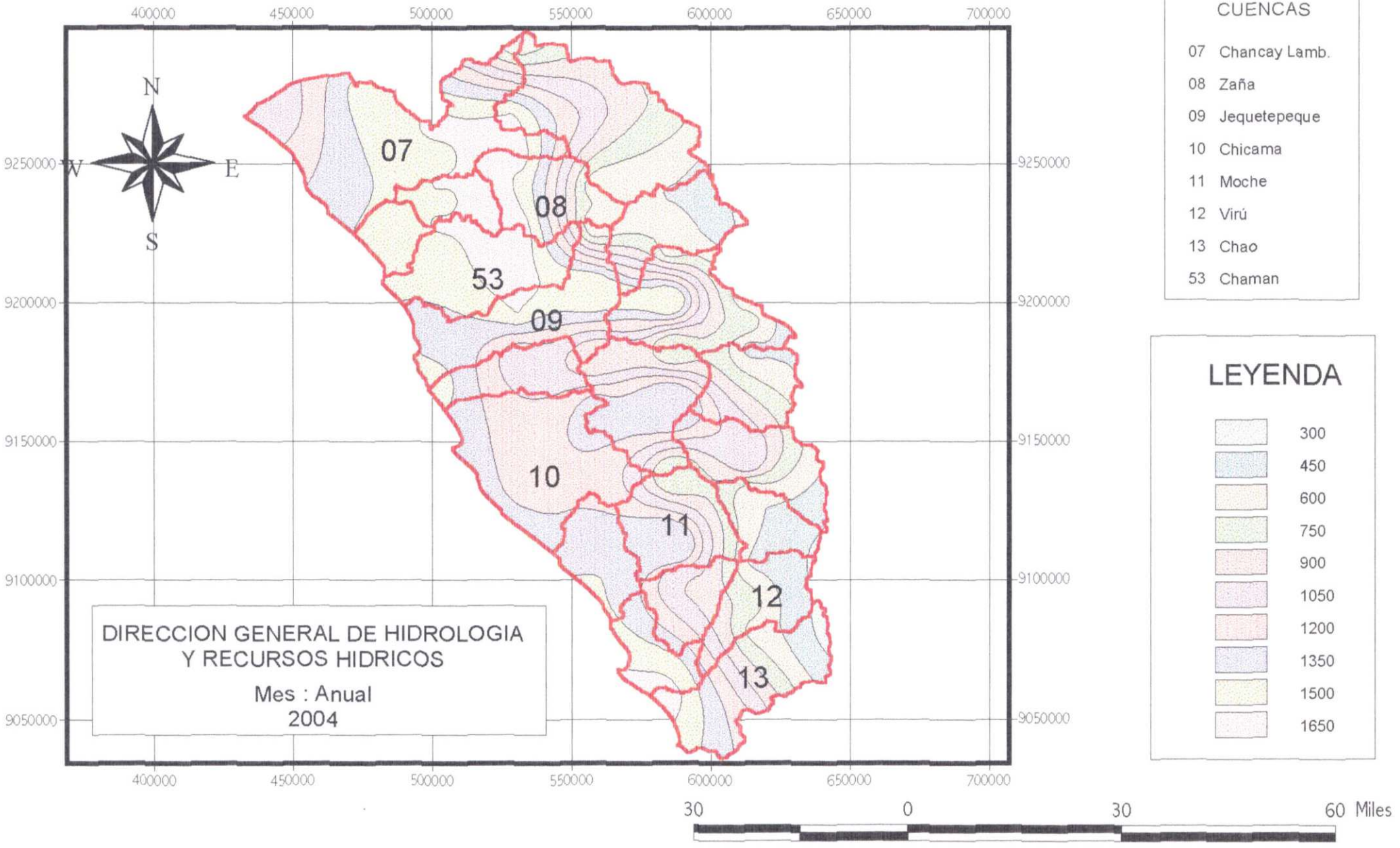
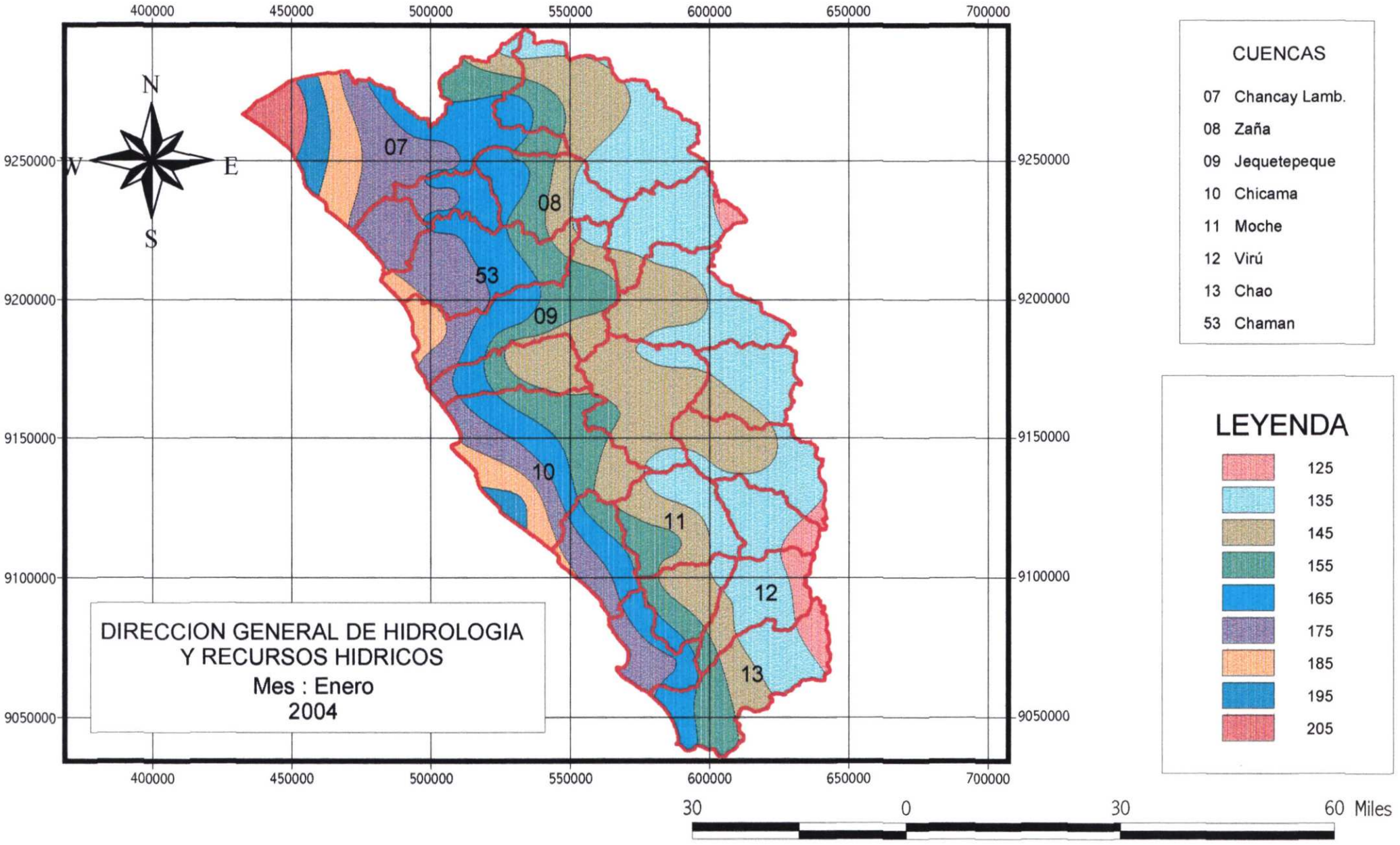


HORAS DE SOL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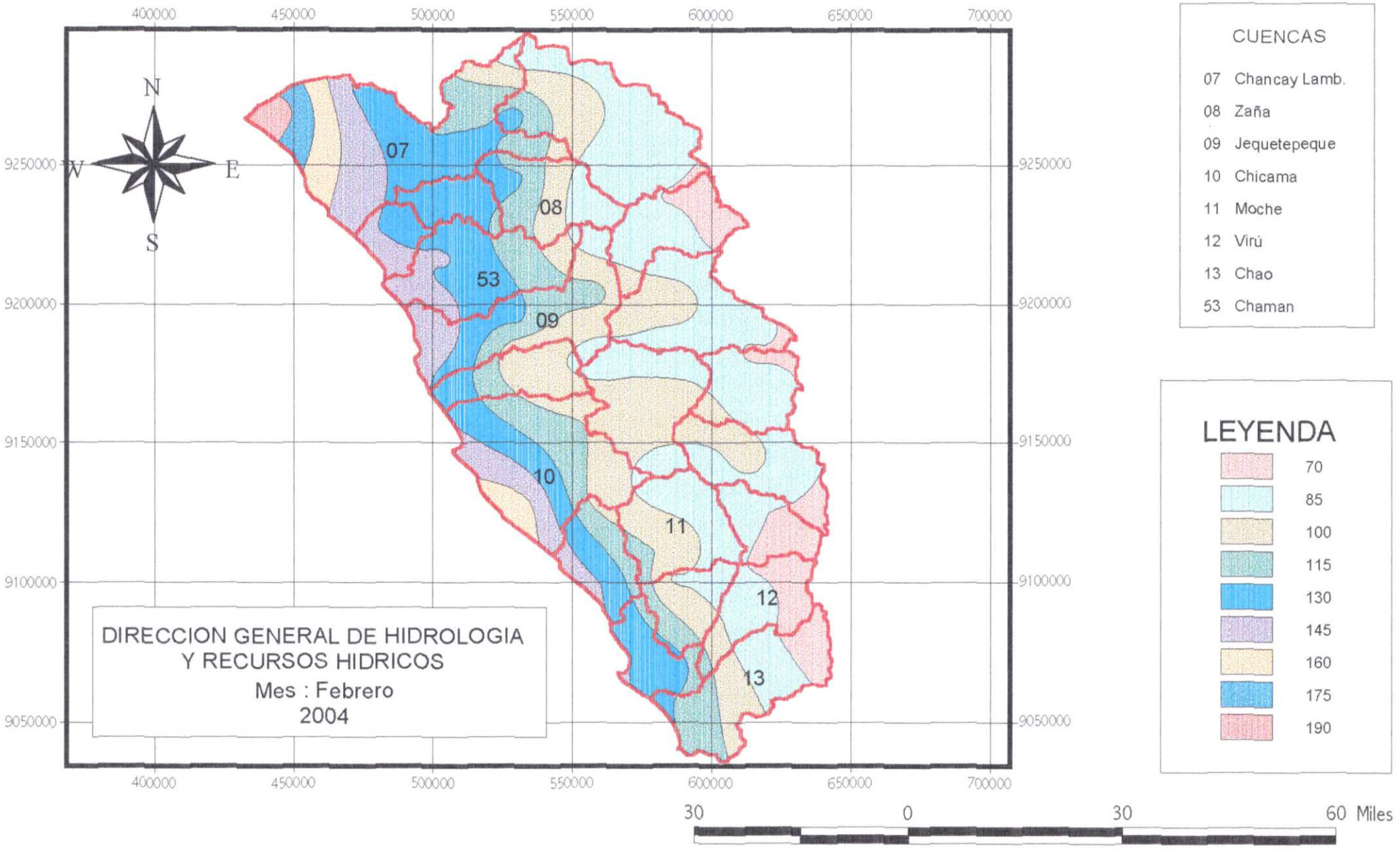
13
DIRECCION GENERAL DE HIDROLOGIA
Y RECURSOS HIDRICOS
Mes : Enero
2004
CUENCAS
07 Chancay Lamb.
08 Zaña
09 Jequetepeque
10 Chicama
11 Moche
12 Virú
13 Chao
53 Chaman
LEYENDA
125
135
145
155
165
175
185
195
205
30
0
30
60 Miles

HORAS DE SOL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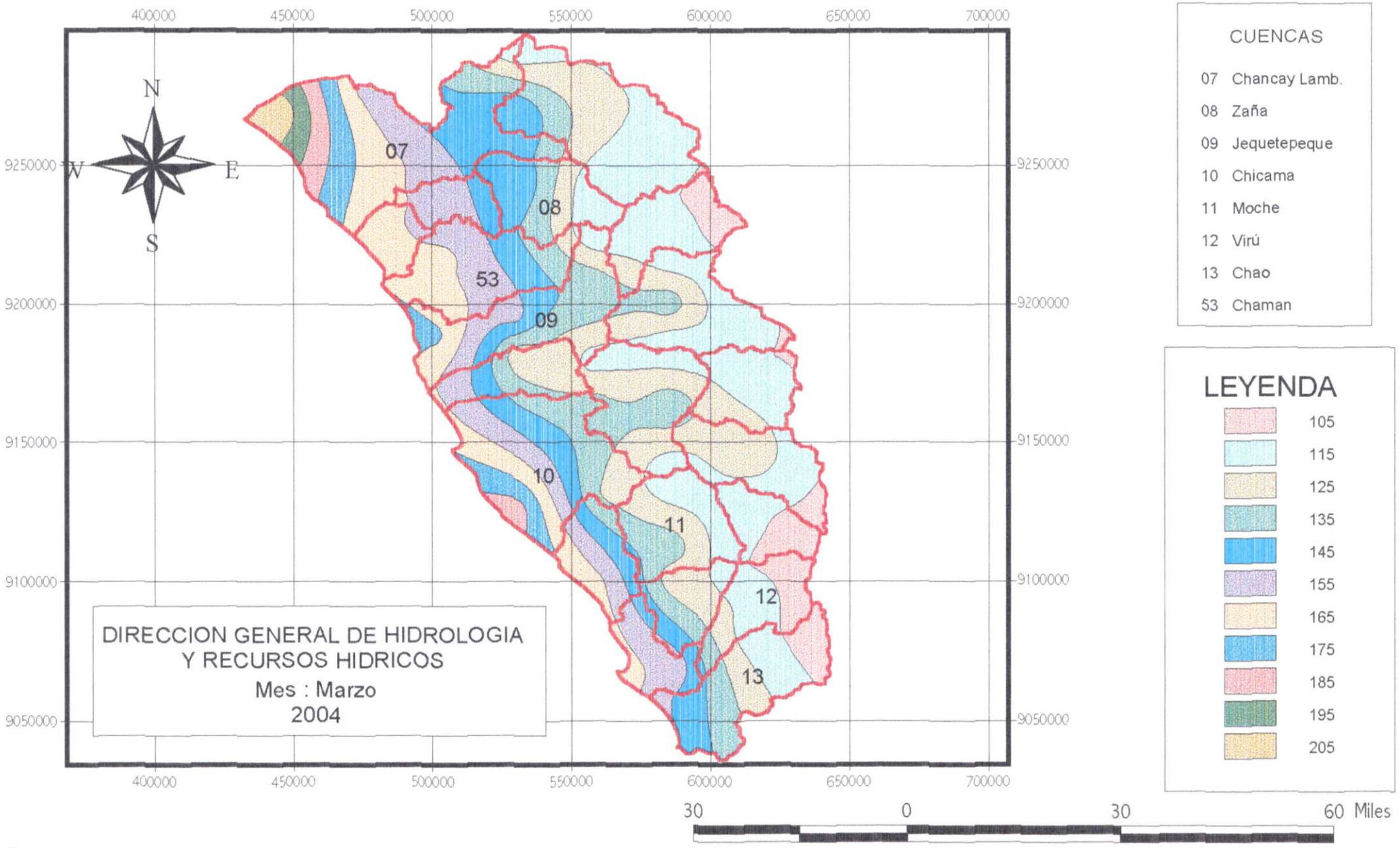
DIRECCION GENERAL DE HIDROLOGIA
Y RECURSOS HIDRICOS
Mes : Febrero
2004
CUENCAS
07 Chancay Lamb.
08 Zaña
09 Jequetepeque
10 Chicama
11 Moche
12 Virú
13 Chao
53 Chaman
LEYENDA
70
85
100
115
130
145
160
175
190
30
0
30
60 Miles

HORAS DE SOL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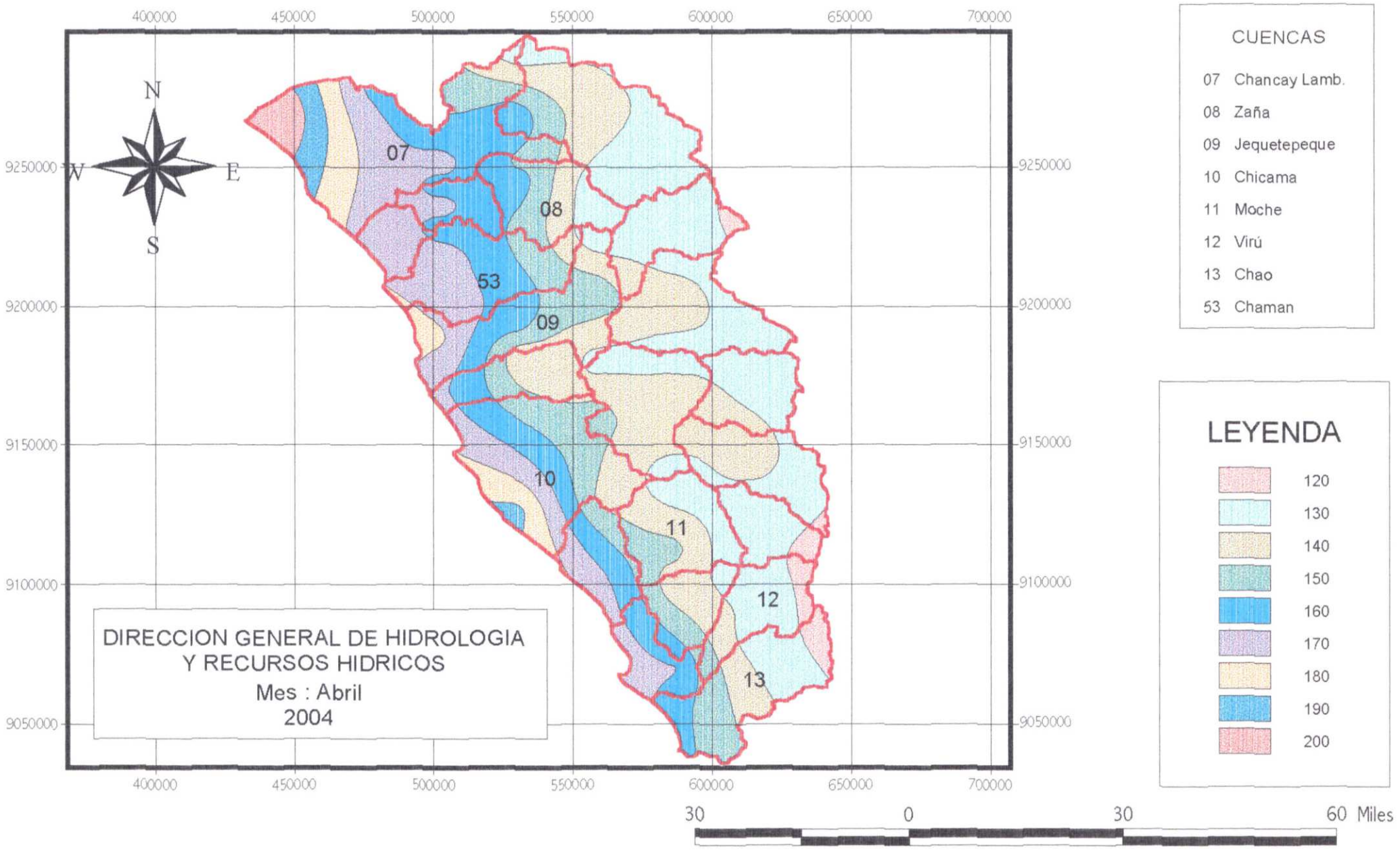
DIRECCION GENERAL DE HIDROLOGIA
Y RECURSOS HIDRICOS
Mes : Marzo
2004
CUENCAS
07 Chancay Lamb.
08 Zaña
09 Jequetepeque
10 Chicama
11 Moche
12 Virú
13 Chao
53 Chaman
LEYENDA
105
115
125
135
145
155
165
175
185
195
205
30
0
30
60 Miles

HORAS DE SOL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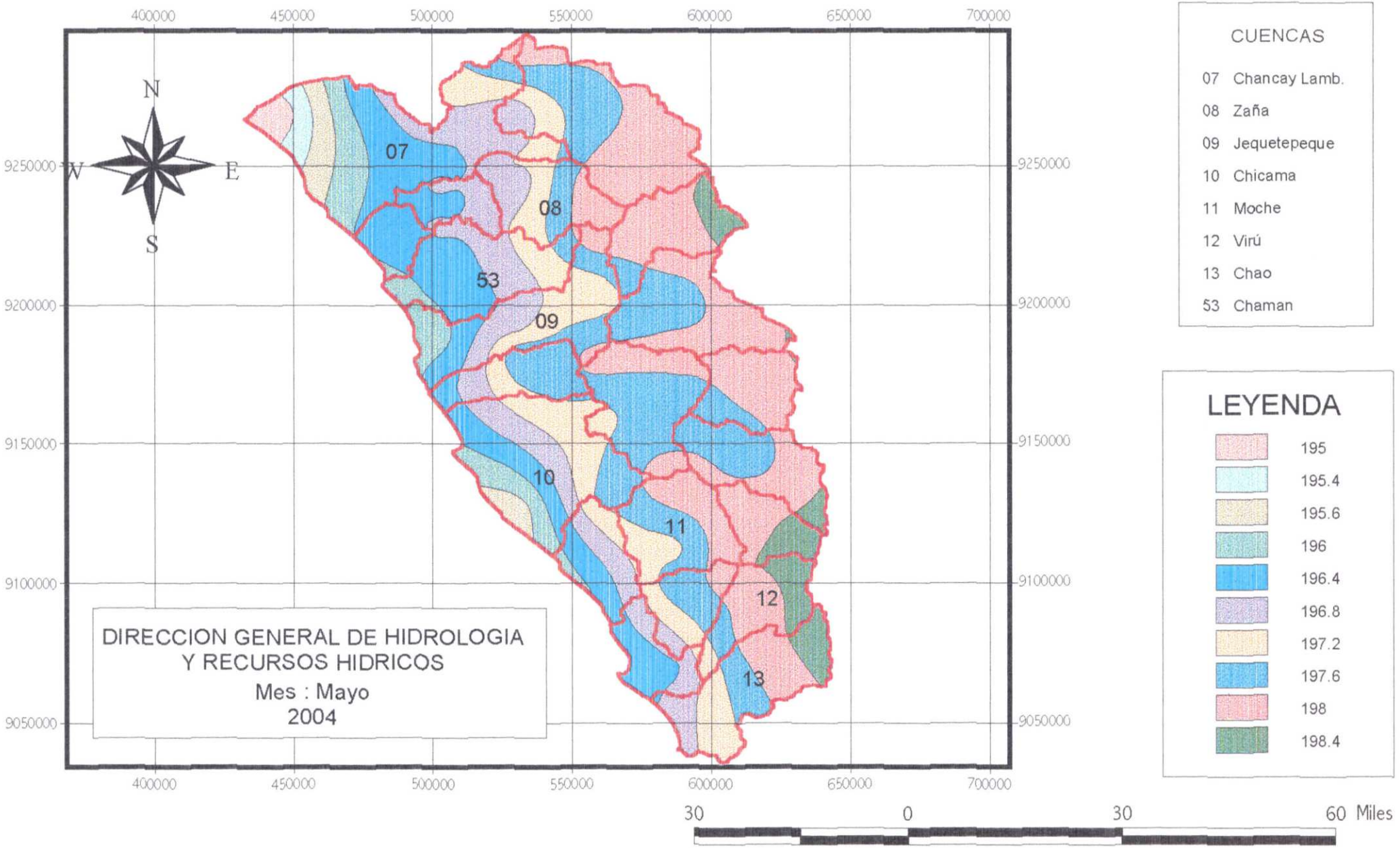
DIRECCION GENERAL DE HIDROLOGIA
Y RECURSOS HIDRICOS
Mes : Abril
2004
CUENCAS
07 Chancay Lamb.
08 Zaña
09 Jequetepeque
10 Chicama
11 Moche
12 Virú
13 Chao
53 Chaman
LEYENDA
120
130
140
150
160
170
180
190
200
30
0
30
60 Miles

HORAS DE SOL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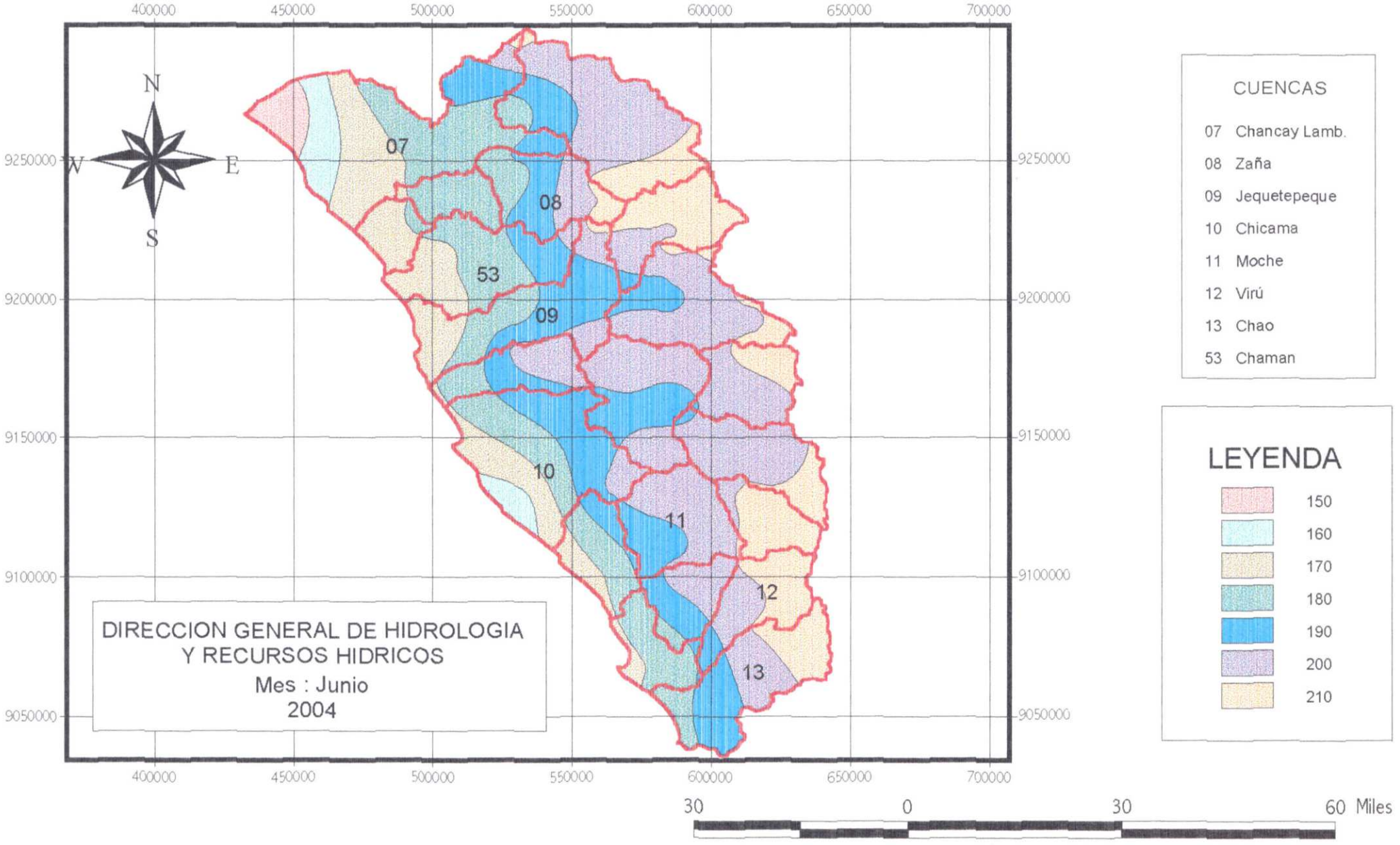
13
DIRECCION GENERAL DE HIDROLOGIA
Y RECURSOS HIDRICOS
Mes : Mayo
2004
CUENCAS
07 Chancay Lamb.
08 Zaña
09 Jequetepeque
10 Chicama
11 Moche
12 Virú
13 Chao
53 Chaman
LEYENDA
195
195.4
195.6
196
196.4
196.8
197.2
197.6
198
198.4
30
0
30
60 Miles

HORAS DE SOL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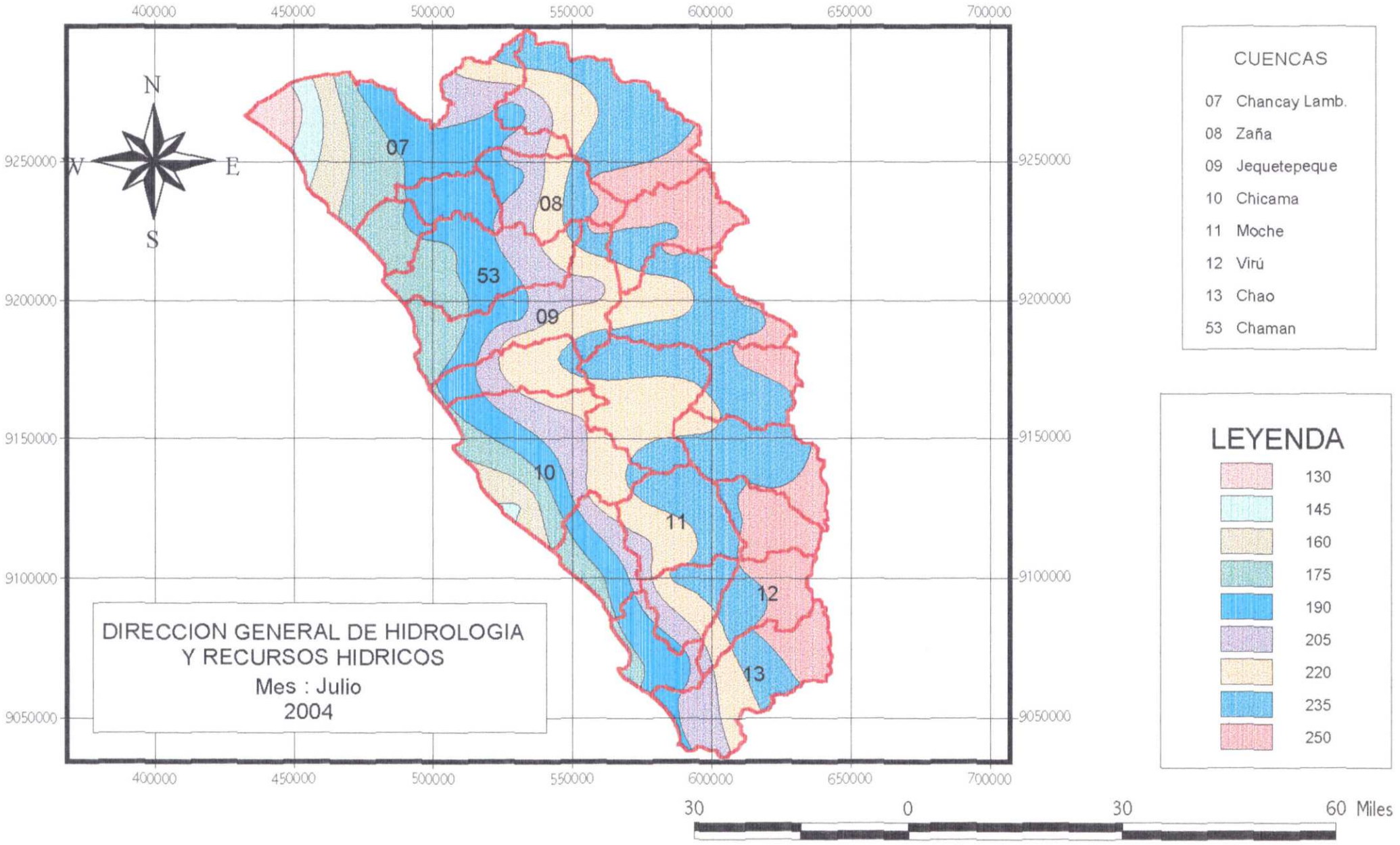
DIRECCION GENERAL DE HIDROLOGIA
Y RECURSOS HIDRICOS
Mes : Junio
2004
CUENCAS
07 Chancay Lamb.
08 Zaña
09 Jequetepeque
10 Chicama
11 Moche
12 Virú
13 Chao
53 Chaman
LEYENDA
150
160
170
180
190
200
210
30
0
30
60 Miles

HORAS DE SOL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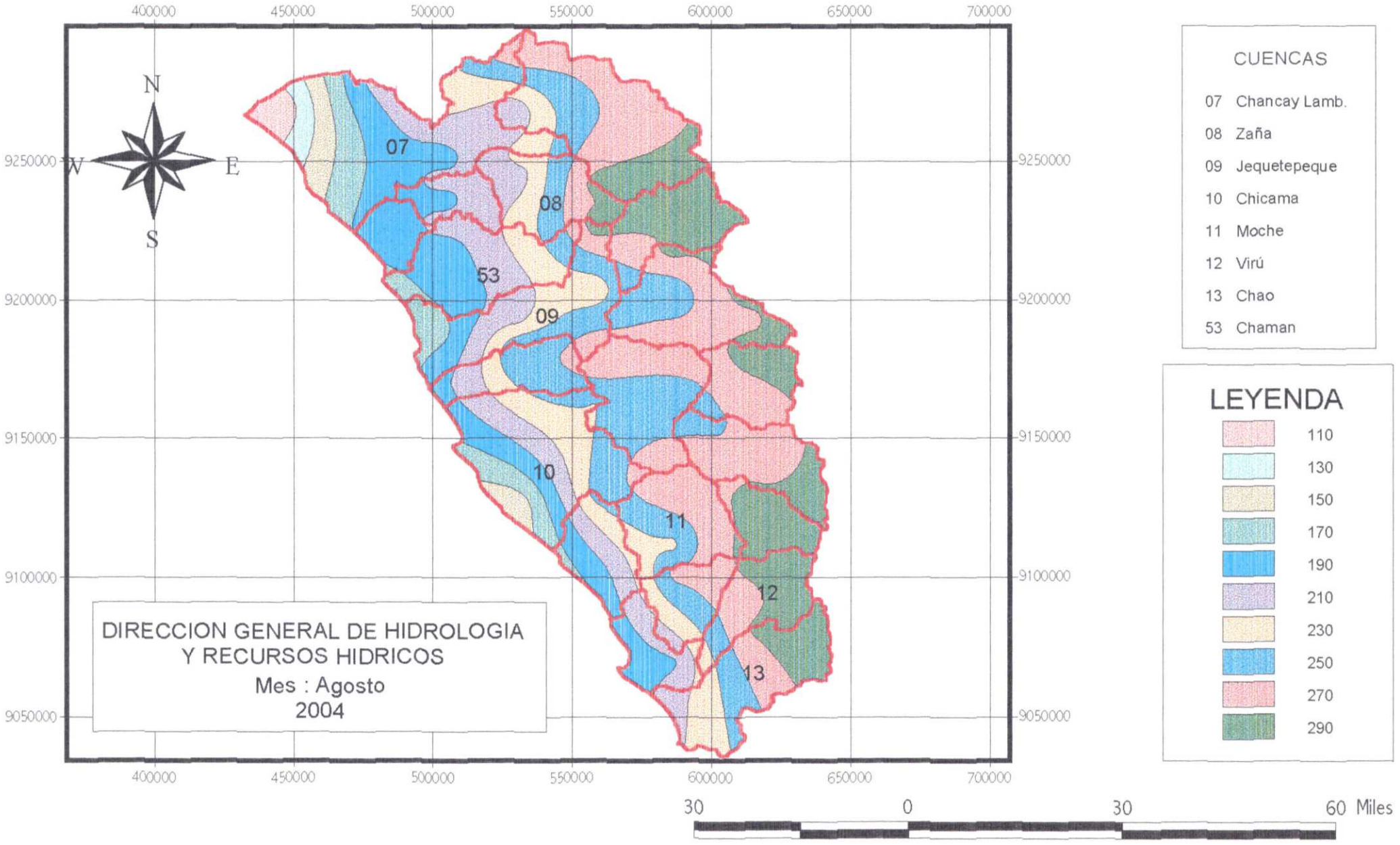
DIRECCION GENERAL DE HIDROLOGIA
Y RECURSOS HIDRICOS
Mes : Julio
2004
CUENCAS
07 Chancay Lamb.
08 Zaña
09 Jequetepeque
10 Chicama
11 Moche
12 Virú
13 Chao
53 Chaman
LEYENDA
130
145
160
175
190
205
220
235
250
30
0
30
60 Miles

HORAS DE SOL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53
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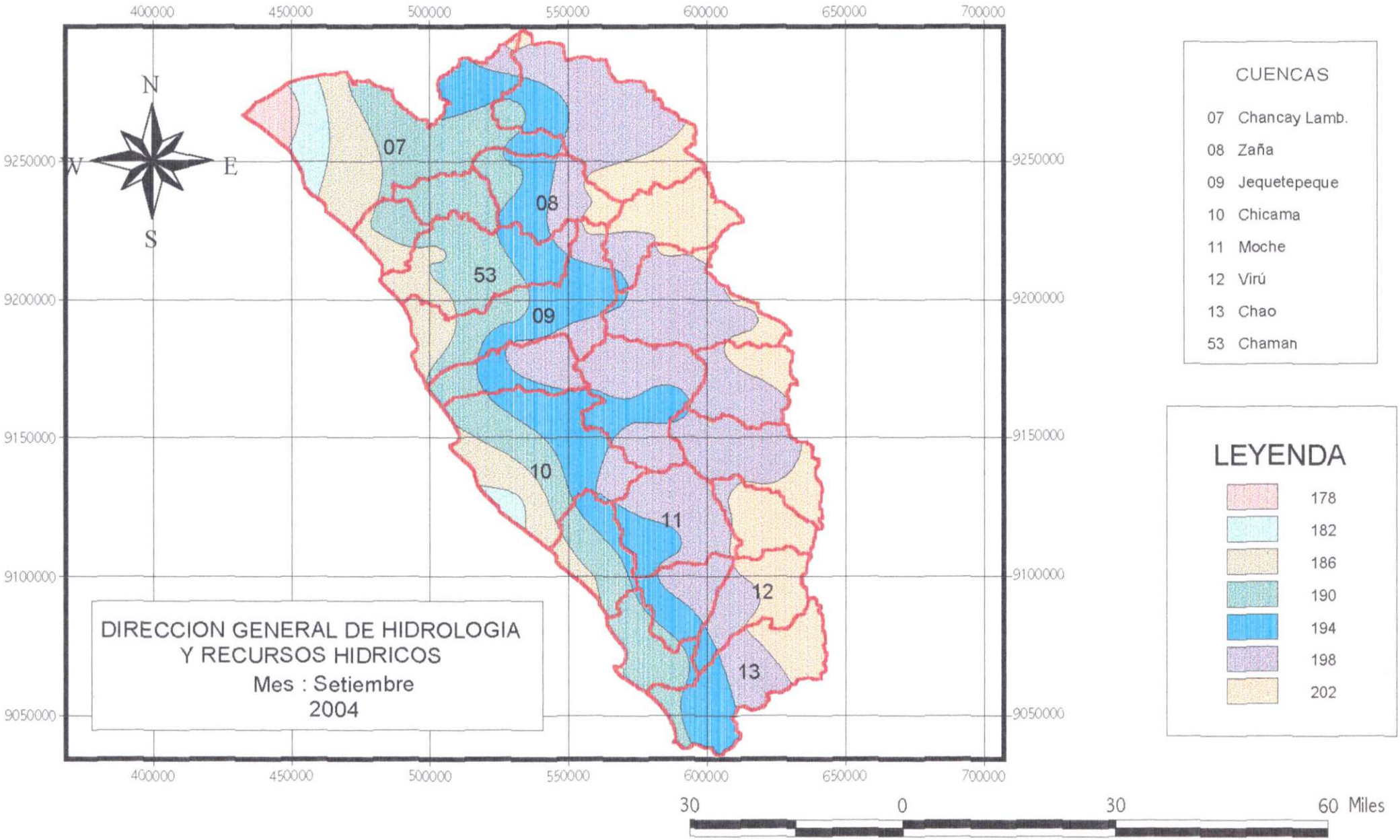
13
DIRECCION GENERAL DE HIDROLOGIA
Y RECURSOS HIDRICOS
Mes : Agosto
2004
CUENCAS
07 Chancay Lamb.
08 Zaña
09 Jequetepeque
10 Chicama
11 Moche
12 Virú
13 Chao
53 Chaman
LEYENDA
110
130
150
170
190
210
230
250
270
290
30
0
30
60 Miles

HORAS DE SOL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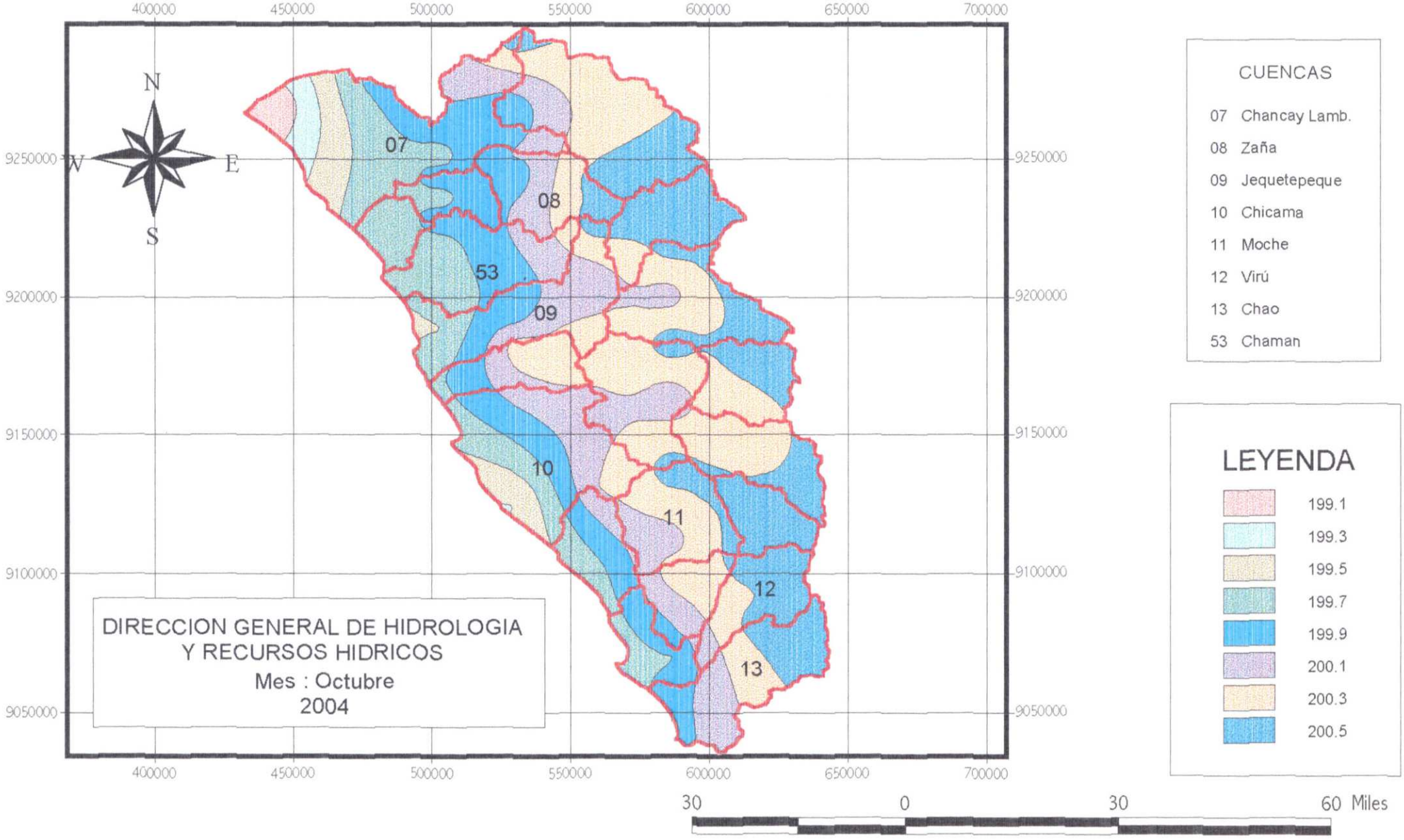
DIRECCION GENERAL DE HIDROLOGIA
Y RECURSOS HIDRICOS
Mes : Setiembre
2004
CUENCAS
07 Chancay Lamb.
08 Zaña
09 Jequetepeque
10 Chicama
11 Moche
12 Virú
13 Chao
53 Chaman
LEYENDA
178
182
186
190
194
198
202
30
0
30
60 Miles

HORAS DE SOL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07
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53
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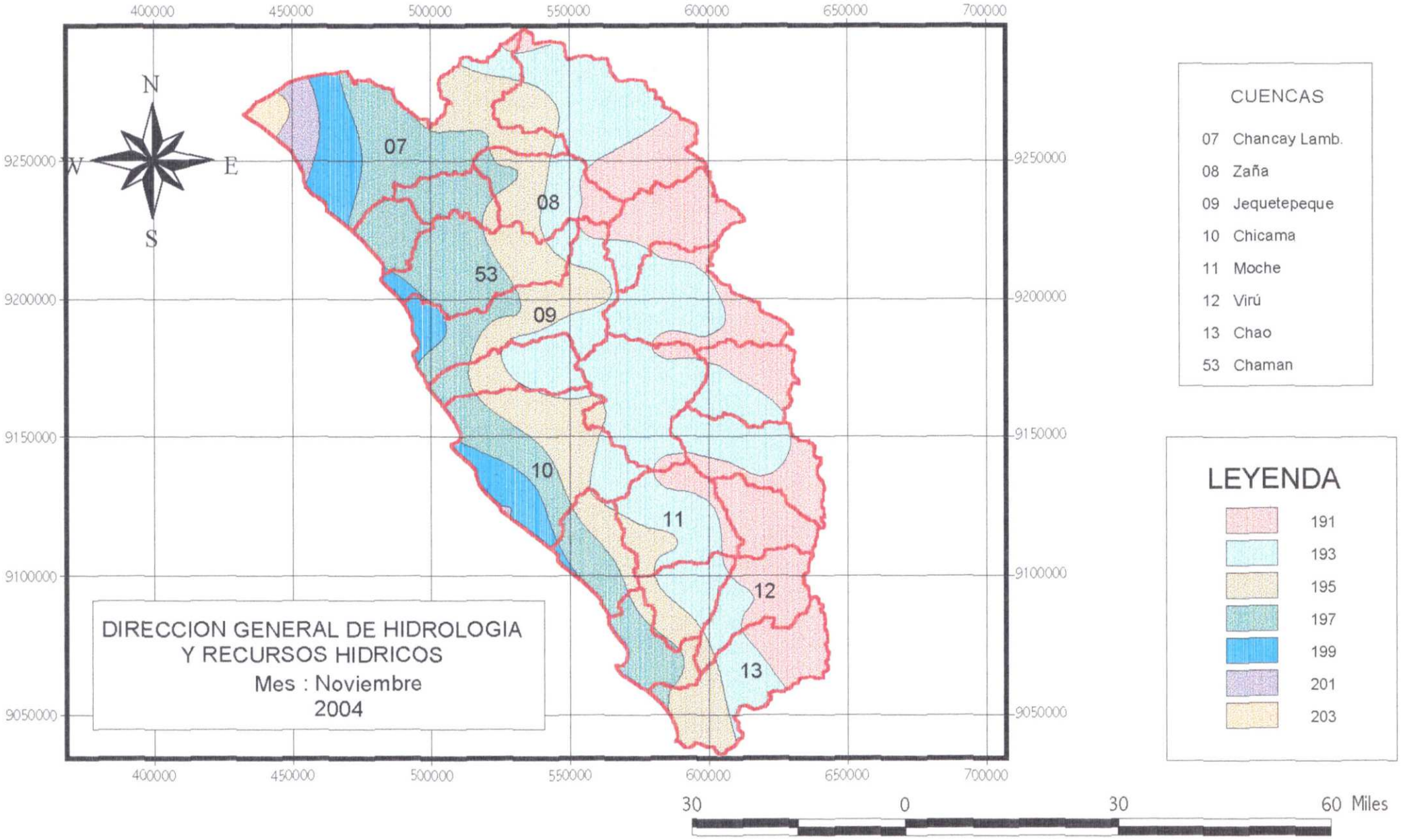
13
DIRECCION GENERAL DE HIDROLOGIA
Y RECURSOS HIDRICOS
Mes : Octubre
2004
CUENCAS
07 Chancay Lamb.
08 Zaña
09 Jequetepeque
10 Chicama
11 Moche
12 Virú
13 Chao
53 Chaman
LEYENDA
199.1
199.3
199.5
199.7
199.9
200.1
200.3
200.5
30
0
30
60 Miles

HORAS DE SOL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650000
700000
9250000
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9150000
9100000
9050000
N
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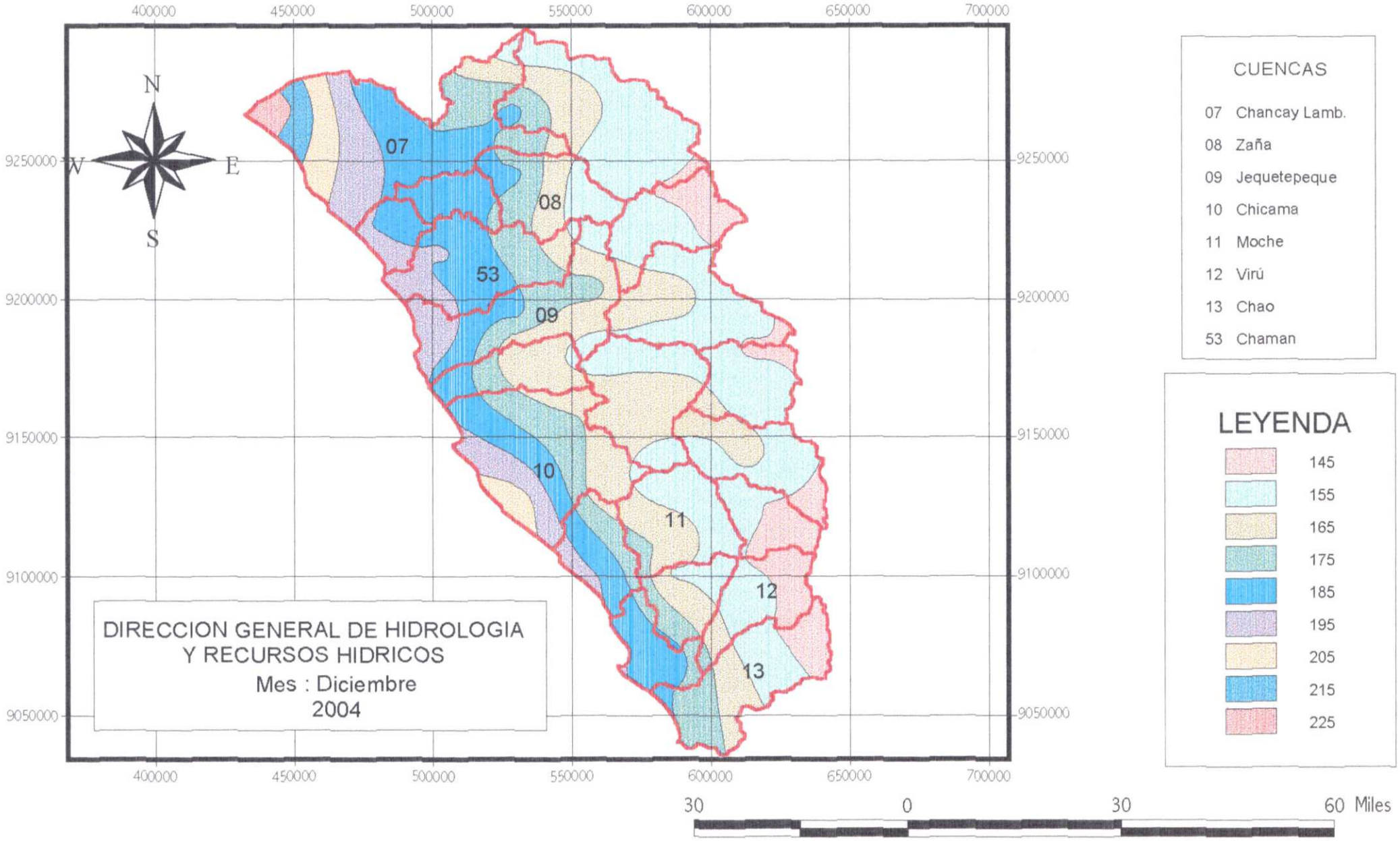
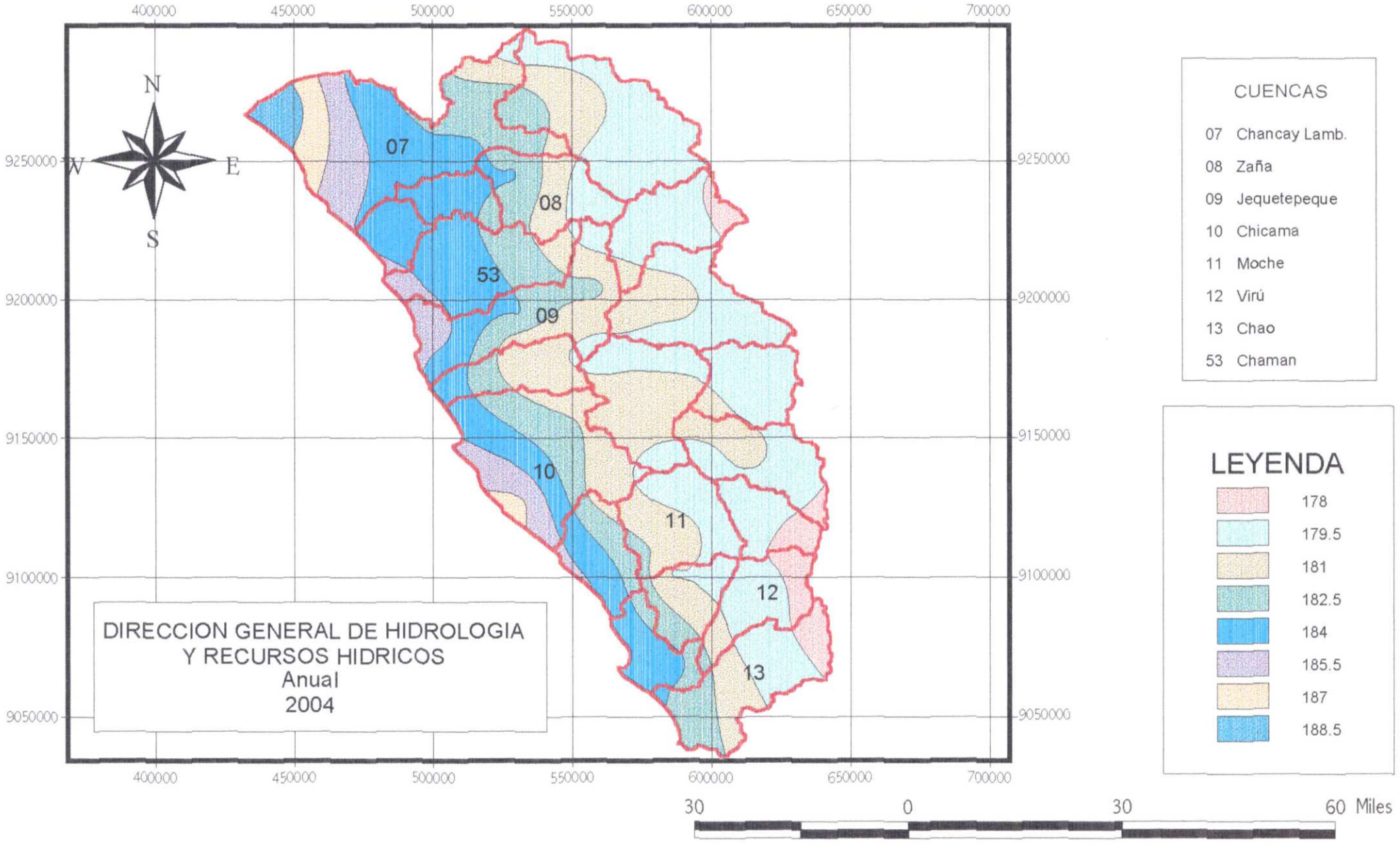
E
W
07
08
53
09
10
11
12
13
DIRECCION GENERAL DE HIDROLOGIA
Y RECURSOS HIDRICOS
Mes : Noviembre
2004
CUENCAS
07 Chancay Lamb.
08 Zaña
09 Jequetepeque
10 Chicama
11 Moche
12 Virú
13 Chao
53 Chaman
LEYENDA
191
193
195
197
199
201
203
30
0
30
60 Miles

HORAS DE SOL


400000
450000
500000
550000
600000
650000
700000
9250000
9200000
9150000
9100000
9050000
N
S
W
E
07
08
53
09
10
11
12
13
DIRECCION GENERAL DE HIDROLOGIA
Y RECURSOS HIDRICOS
Mes : Diciembre
2004
CUENCAS
07 Chancay Lamb.
08 Zaña
09 Jequetepeque
10 Chicama
11 Moche
12 Virú
13 Chao
53 Chaman
LEYENDA
145
155
165
175
185
195
205
215
225
30
0
30
60 Miles

HORAS DE SOL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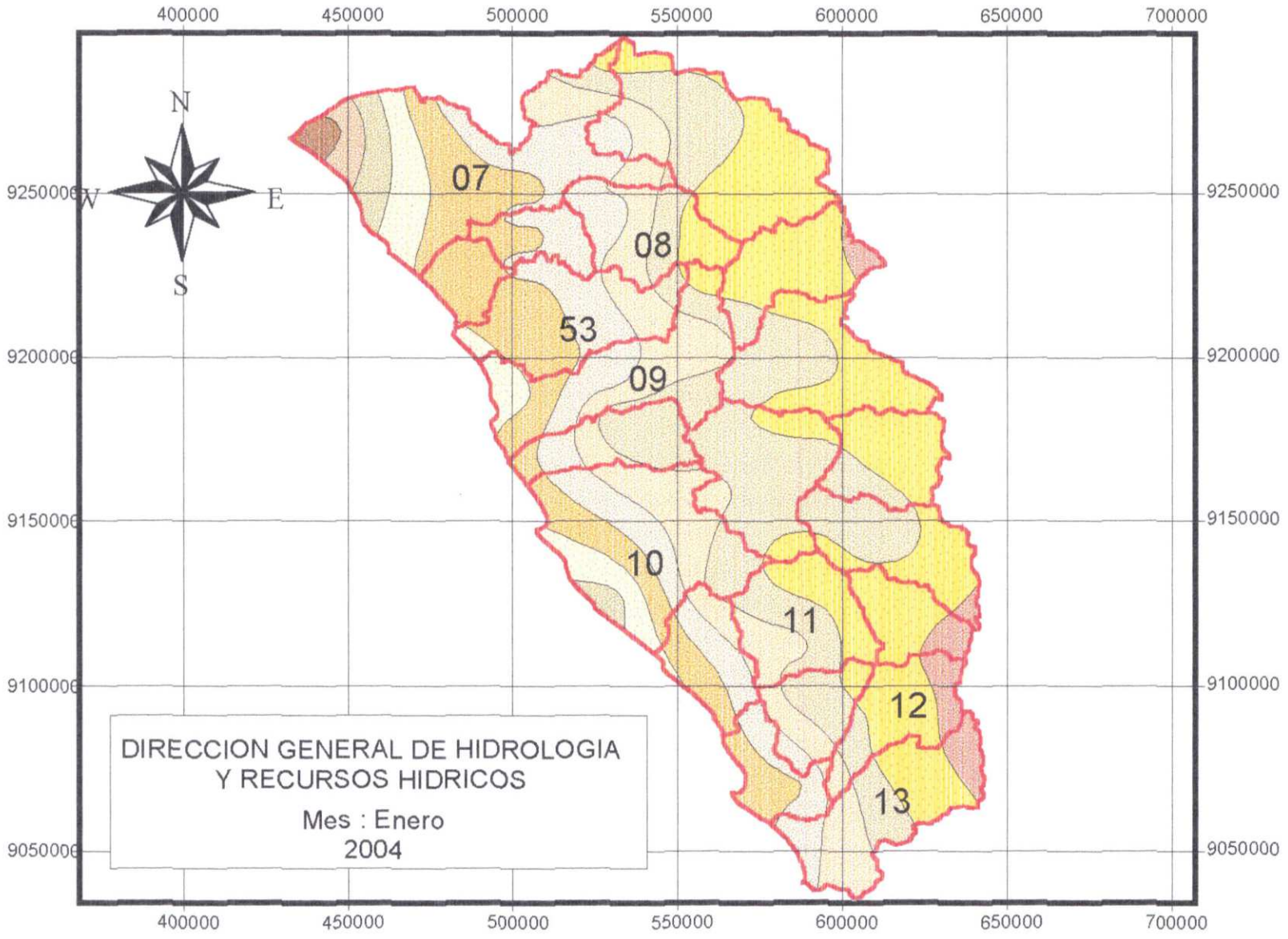
N
W
E
S
07
08
53
09
10
11
12
13
DIRECCION GENERAL DE HIDROLOGIA
Y RECURSOS HIDRICOS
Anual
2004
CUENCAS
07 Chancay Lamb.
08 Zaña
09 Jequetepeque
10 Chicama
11 Moche
12 Virú
13 Chao
53 Chaman
LEYENDA
178
179.5
181
182.5
184
185.5
187
188.5
30
0
30
60 Miles

HUMEDAD RELATIVA



CUENCAS

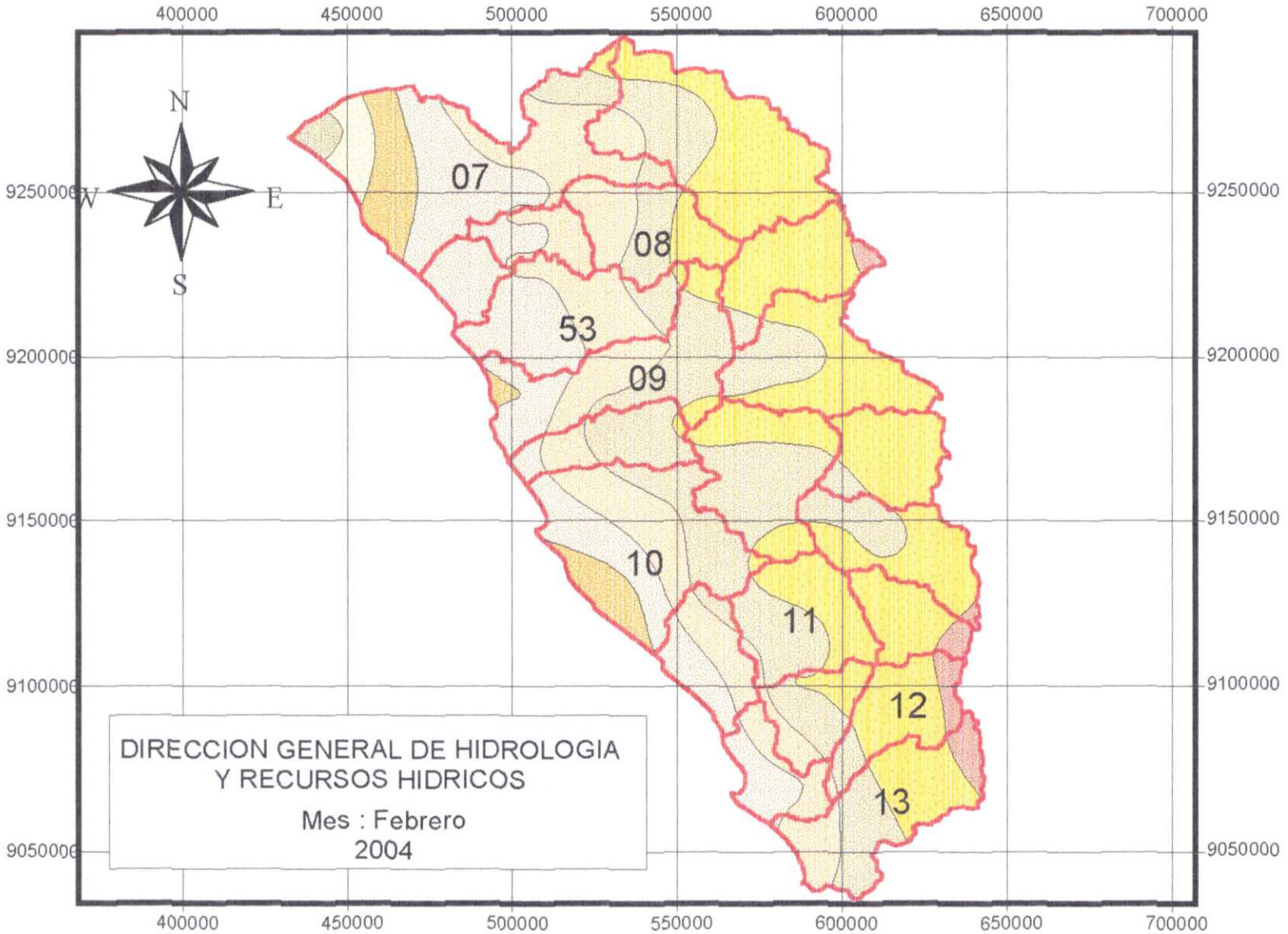
07	Chancay Lamb.
08	Zaña
09	Jequetepeque
10	Chicama
11	Moche
12	Virú
13	Chao
53	Chaman

LEYENDA

	73
	74
	75
	76
	77
	78
	79
	80
	81
	82

30 0 30 60 Miles

HUMEDAD RELATIVA



CUENCAS

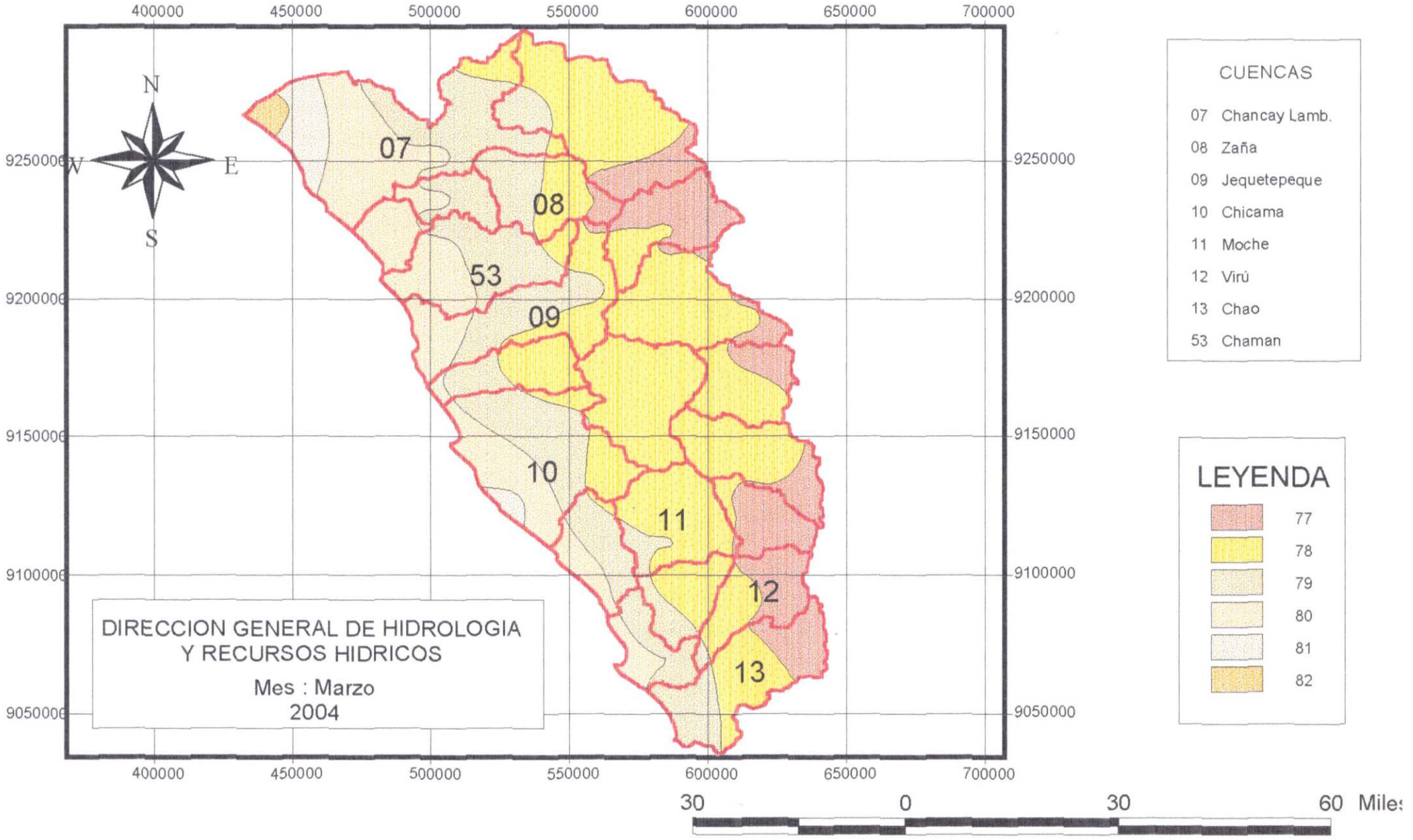
07 Chancay Lamb.
08 Zaña
09 Jequetepeque
10 Chicama
11 Moche
12 Virú
13 Chao
53 Chaman

LEYENDA

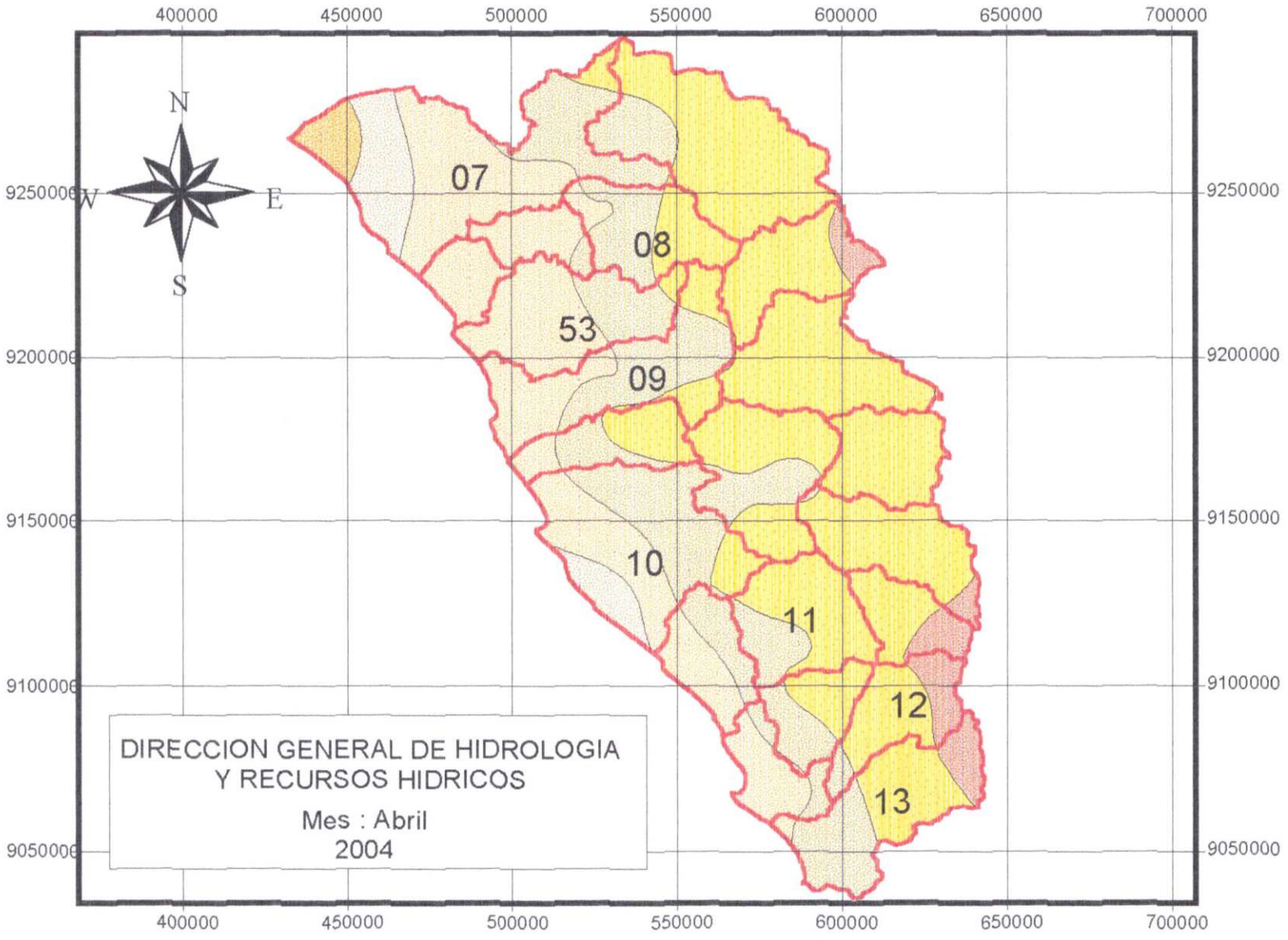
75
76
77
78
79
80
81
82

30 0 30 60 Miles

HUMEDAD RELATIVA



HUMEDAD RELATIVA



CUENCAS

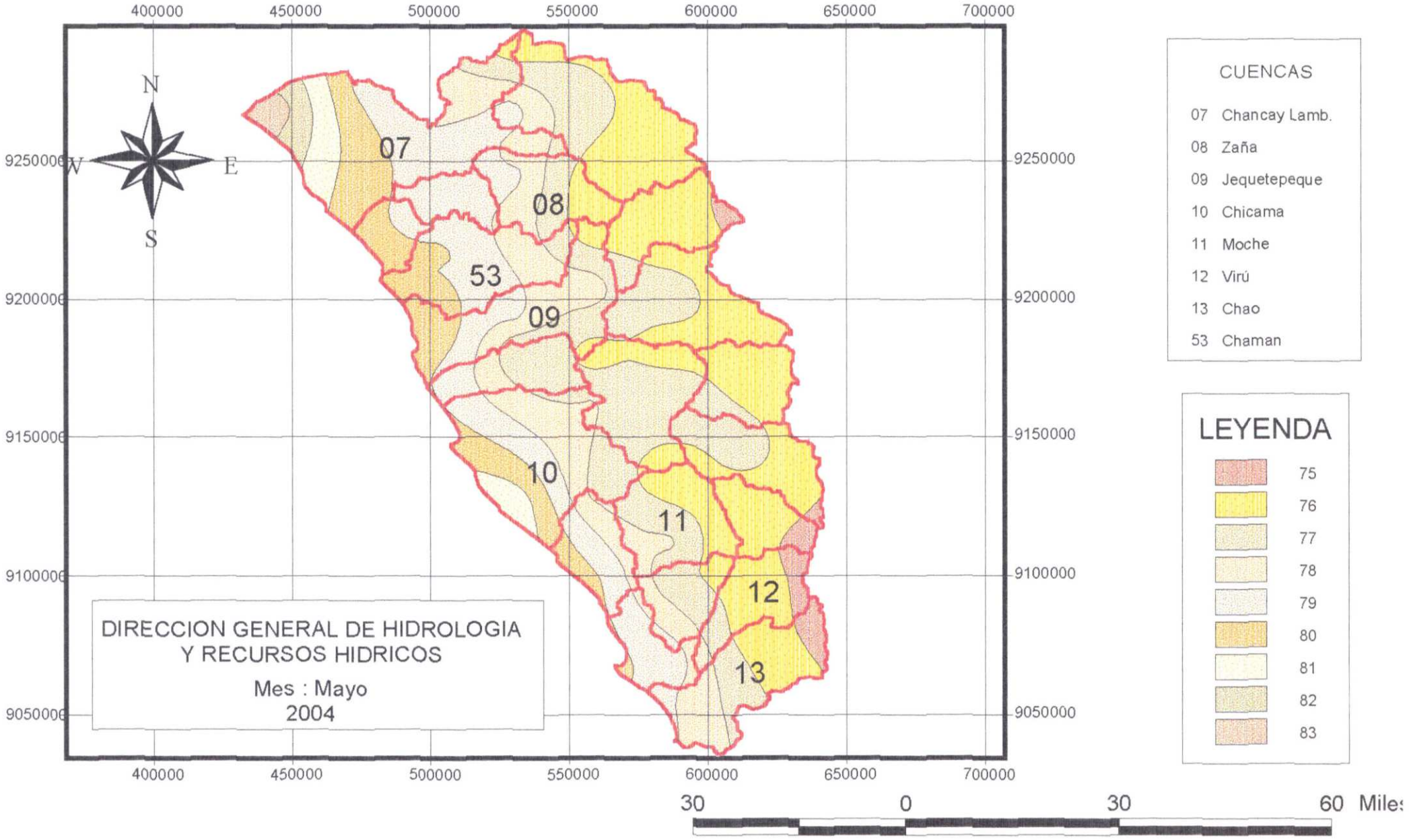
07	Chancay Lamb.
08	Zaña
09	Jequetepeque
10	Chicama
11	Moche
12	Virú
13	Chao
53	Chaman

LEYENDA

77
78
79
80
81
82

30 0 30 60 Miles

HUMEDAD RELATIVA



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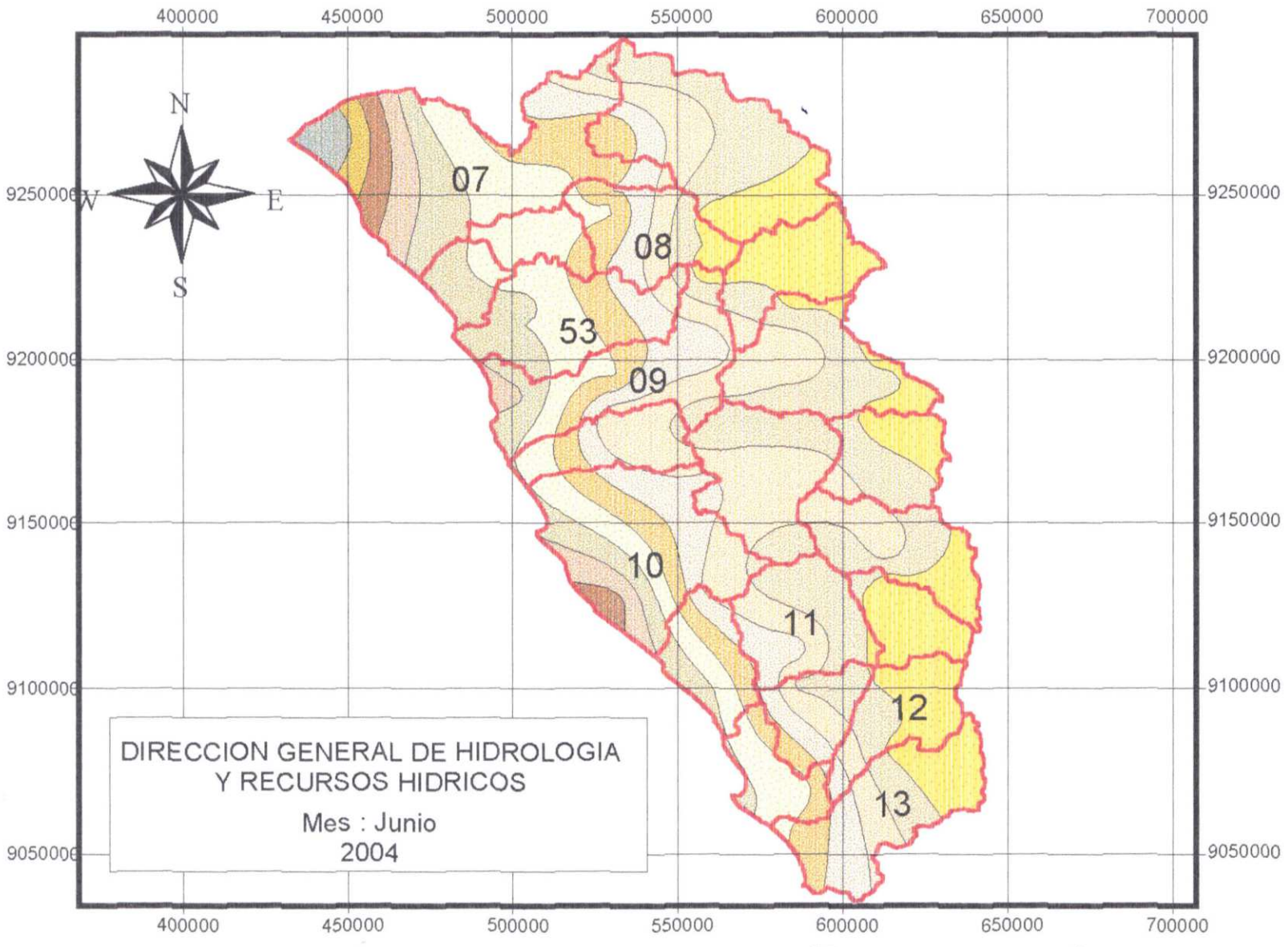


CUENCAS

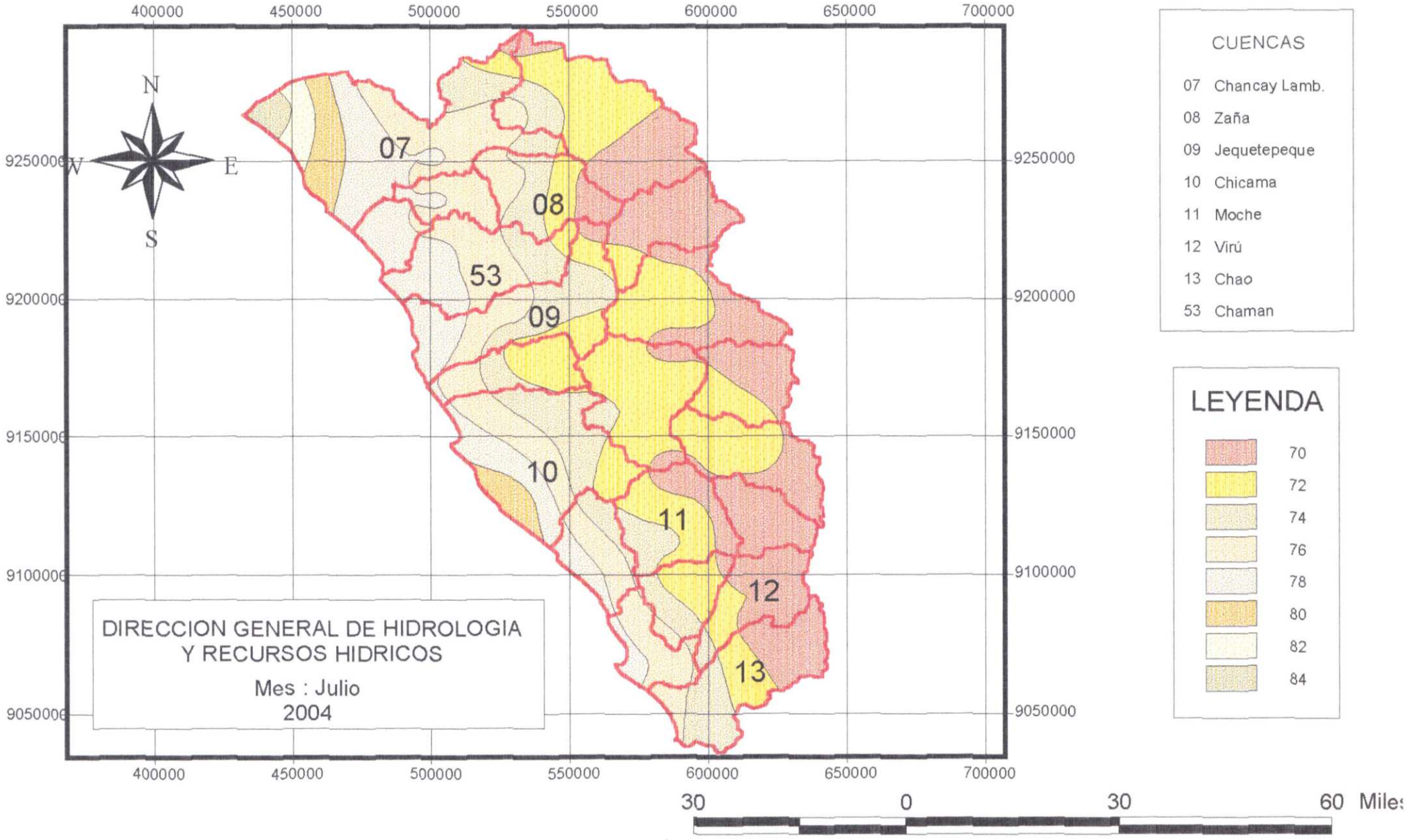
07	Chancay Lamb.
08	Zaña
09	Jequetepeque
10	Chicama
11	Moche
12	Virú
13	Chao
53	Chaman

LEYENDA

72
73
74
75
76
77
78
79
80
81
82
83

30 0 30 60 Miles

HUMEDAD RELATIVA



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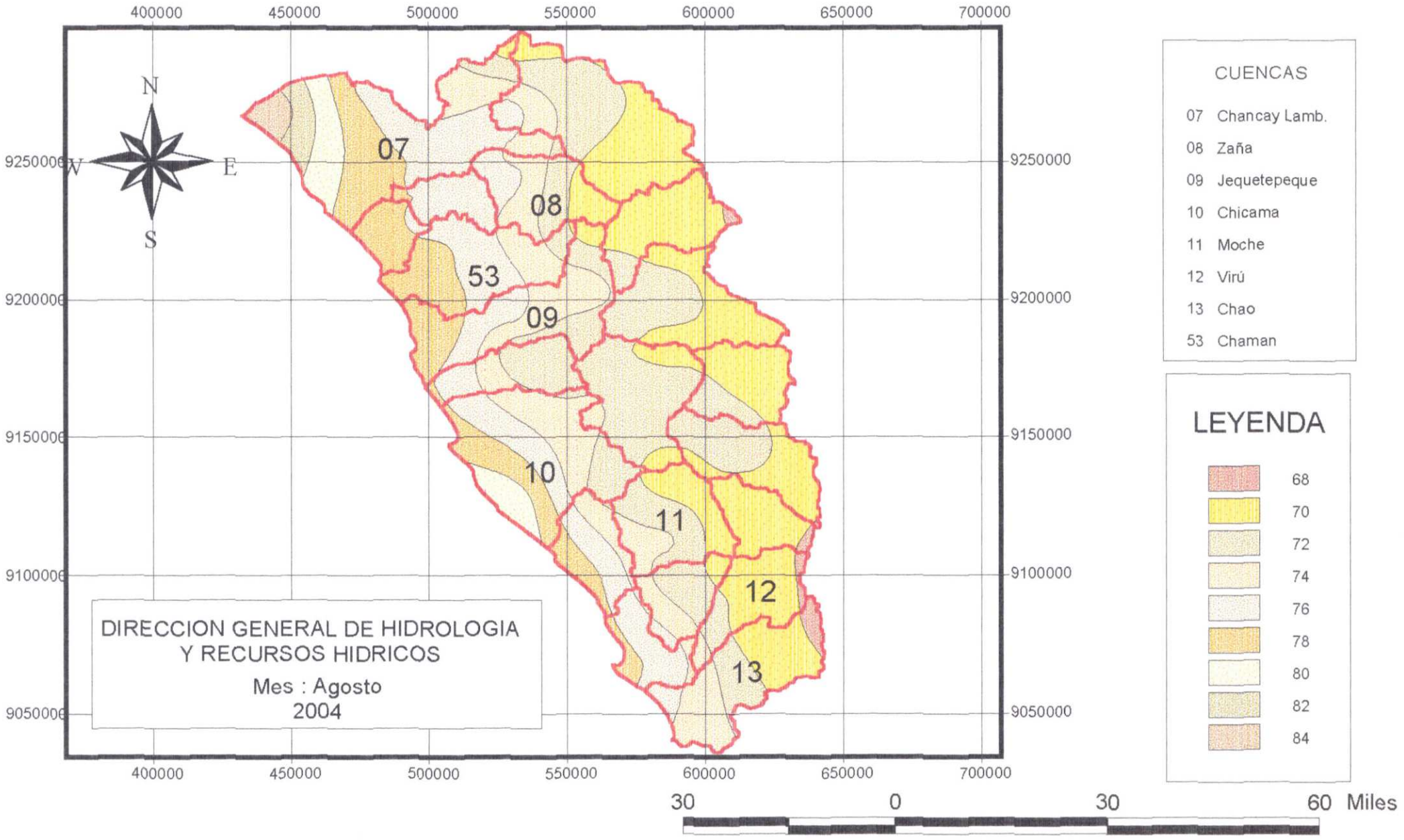

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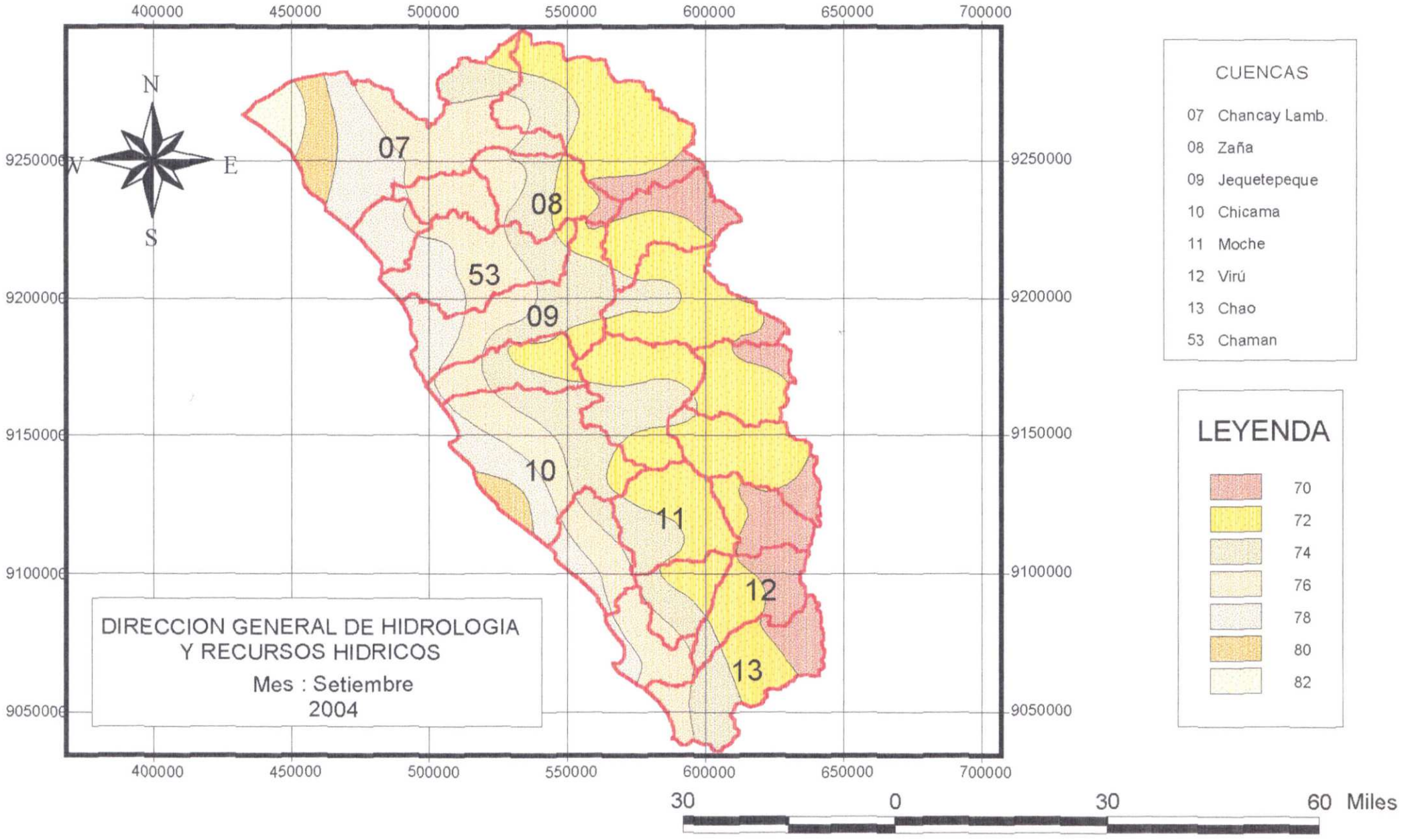

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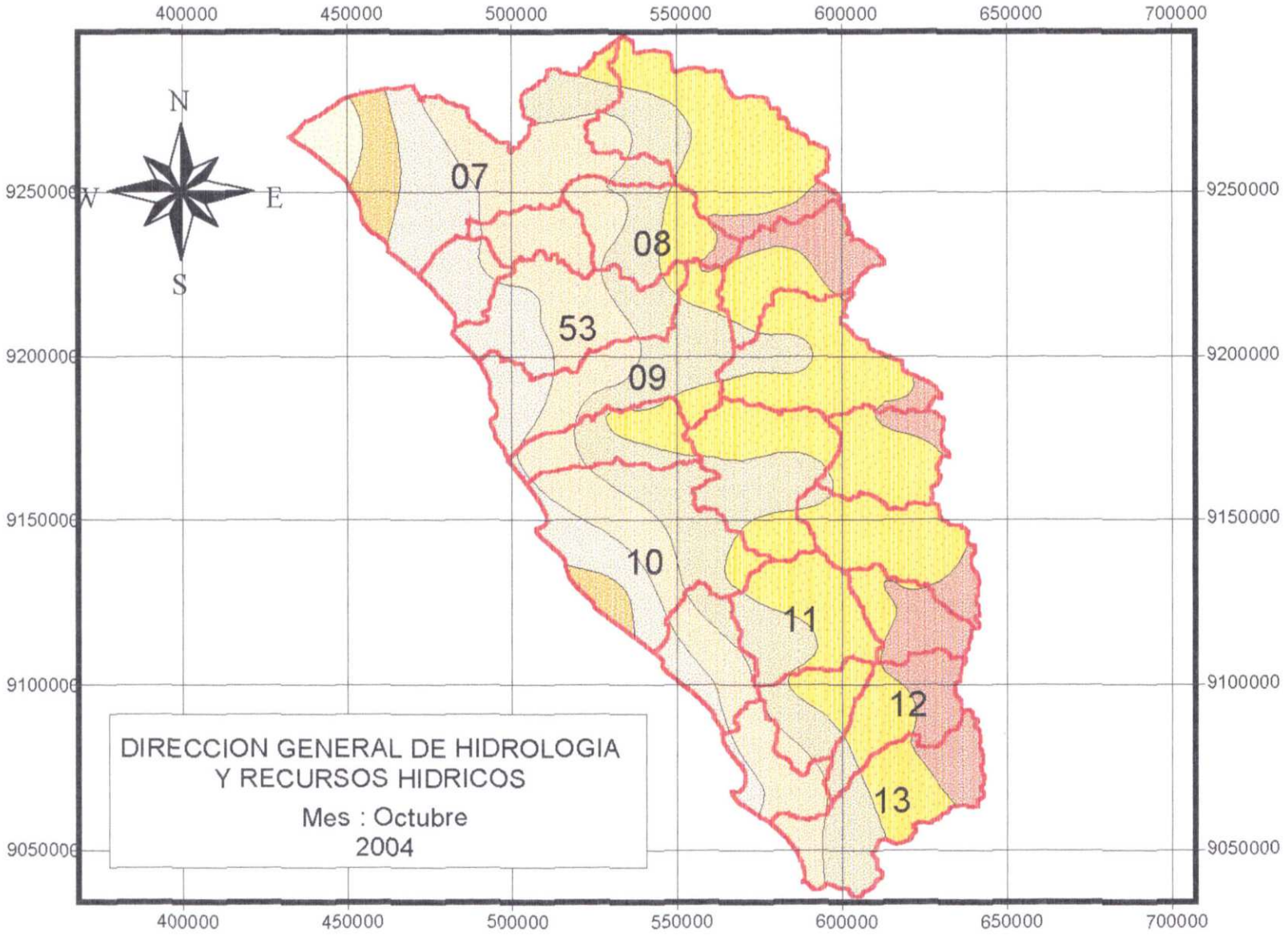


CUENCAS

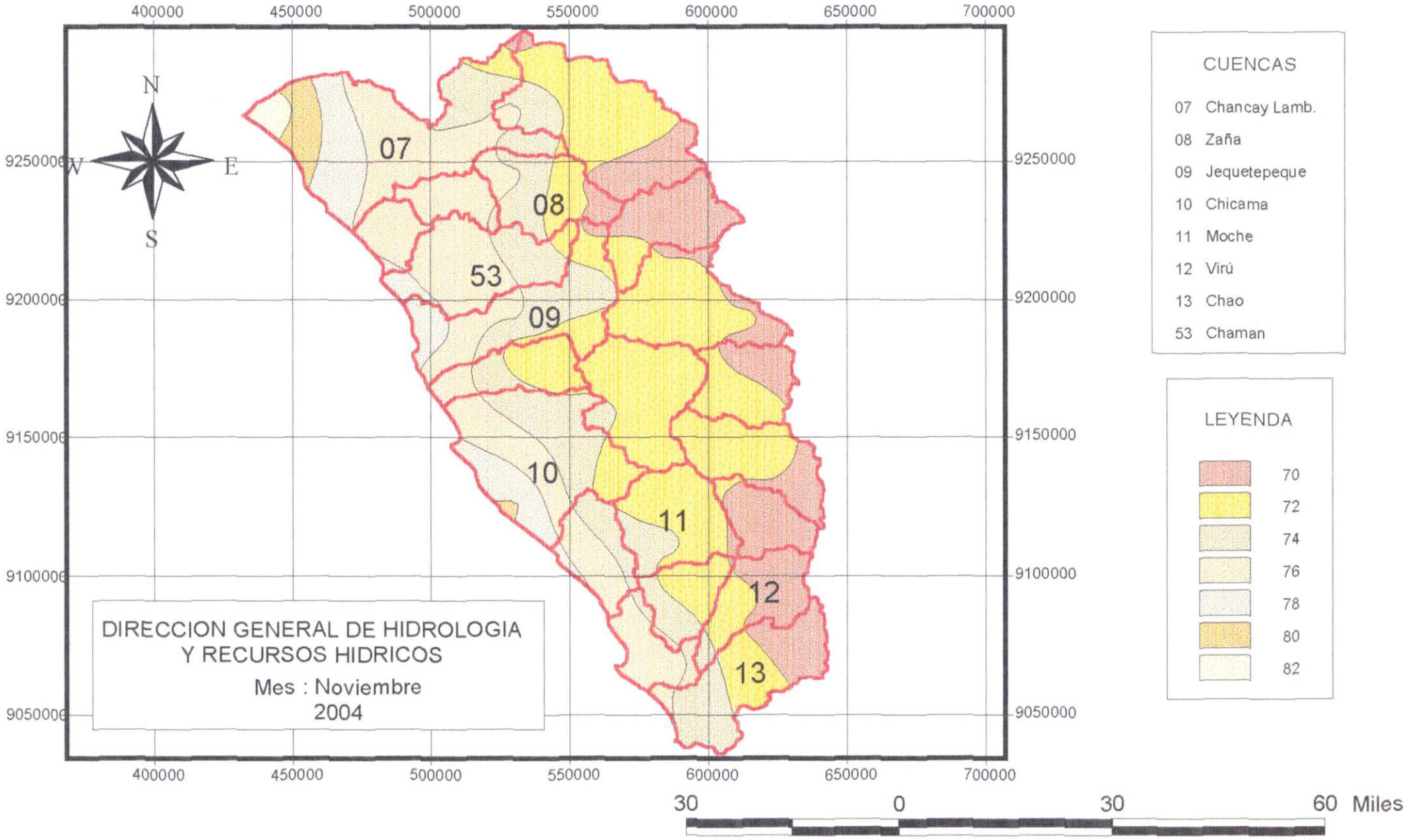
07	Chancay Lamb.
08	Zaña
09	Jequetepeque
10	Chicama
11	Moche
12	Virú
13	Chao
53	Chaman

LEYENDA

70
72
74
76
78
80
82

30 0 30 60 Miles

HUMEDAD RELATIVA



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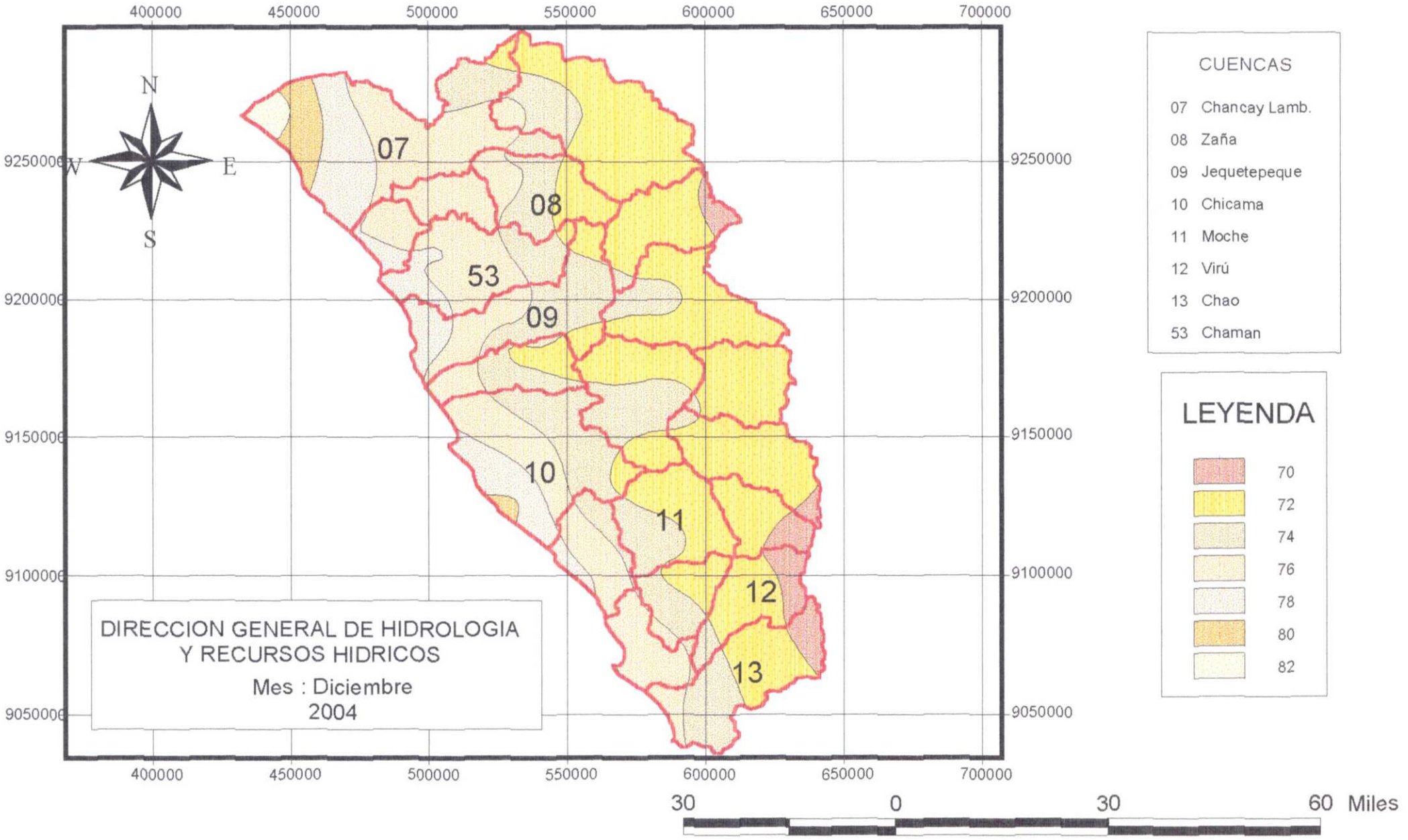
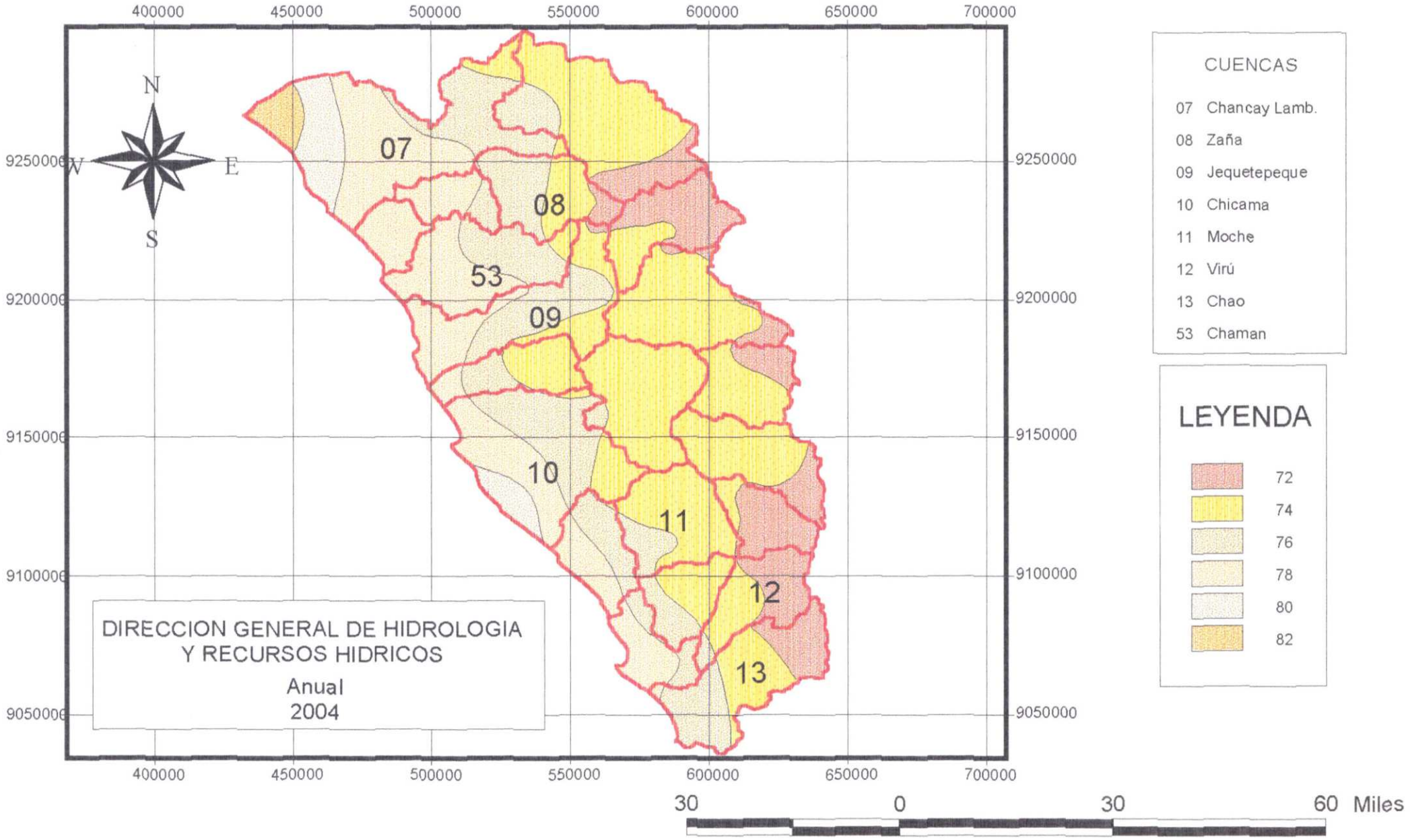


HUMEDAD RELATIVA



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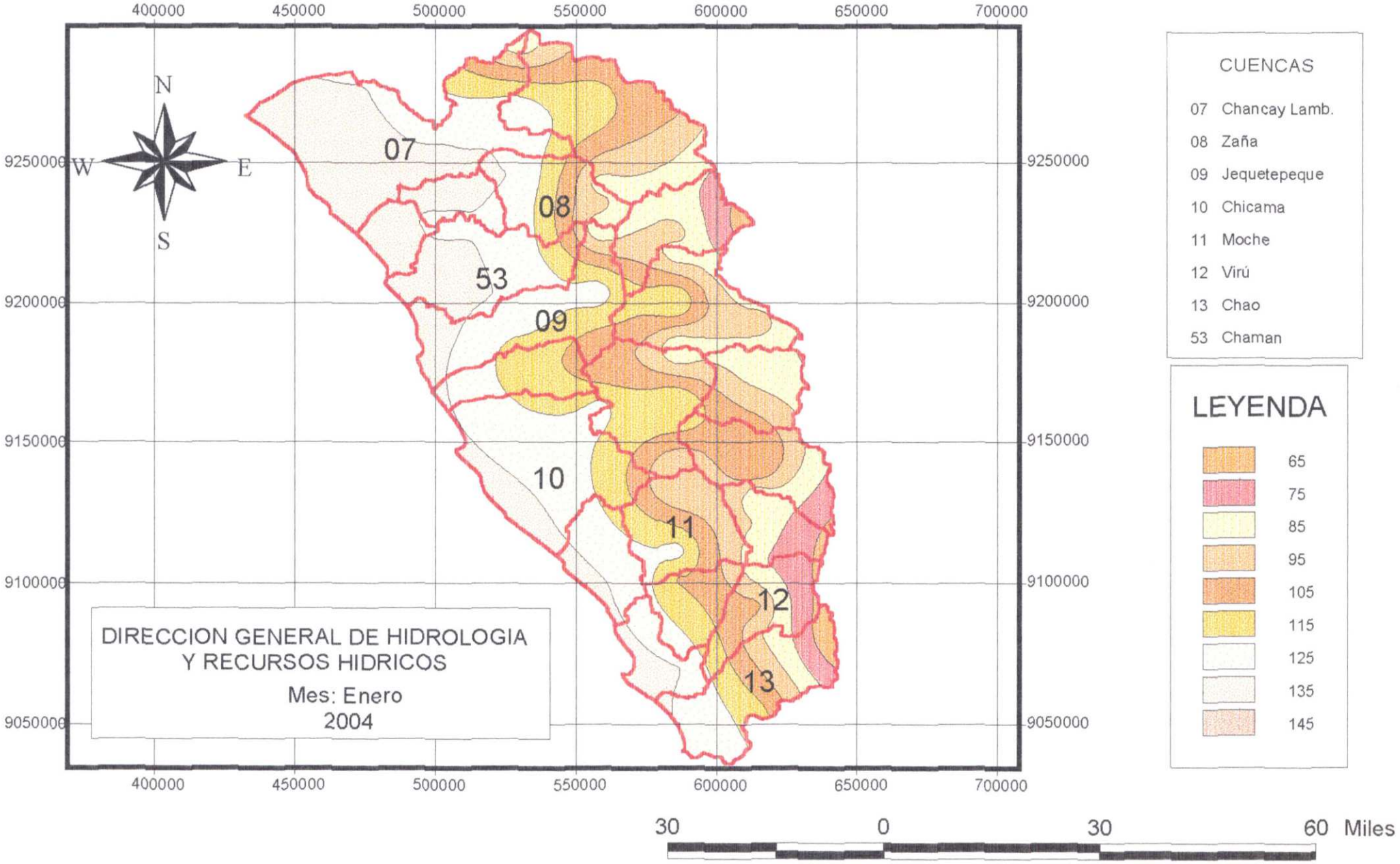

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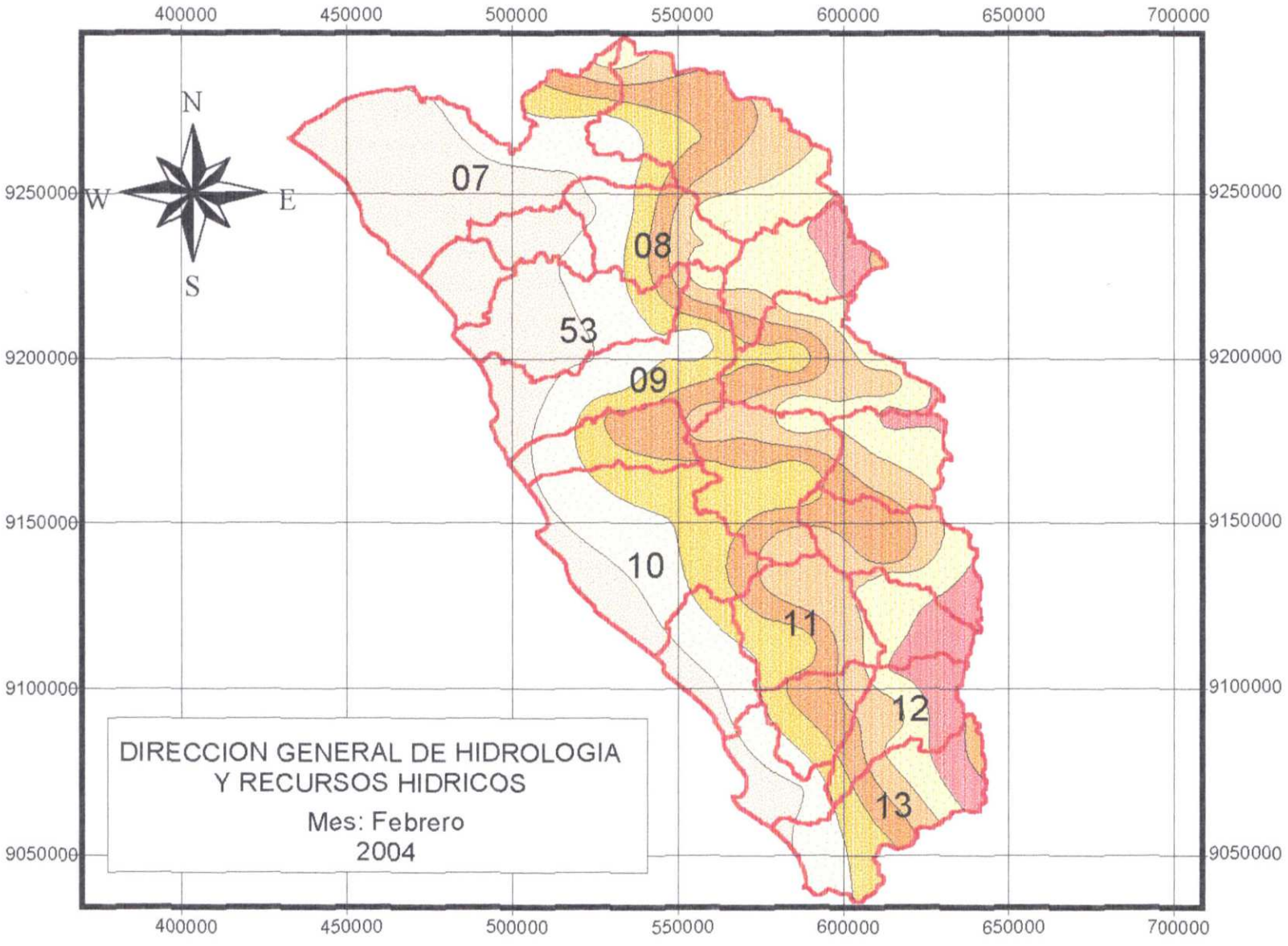


CUENCAS

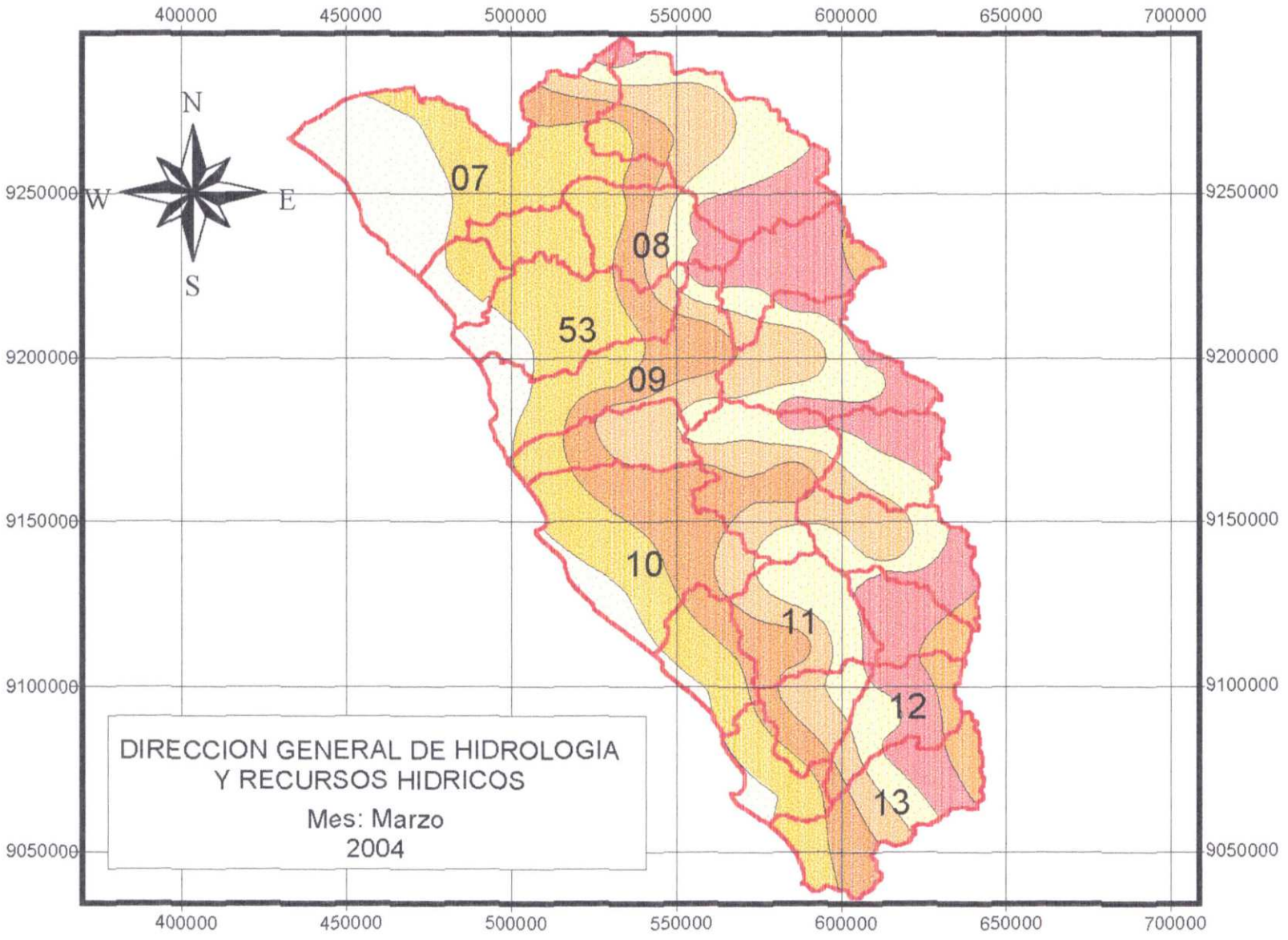
07	Chancay Lamb.
08	Zaña
09	Jequetepeque
10	Chicama
11	Moche
12	Virú
13	Chao
53	Chaman

LEYENDA

50
60
70
80
90
100
110
120

30 0 30 60 Miles

EVAPOTRANSPIRACION DE REFERENCIA (ETo)



CUENCAS

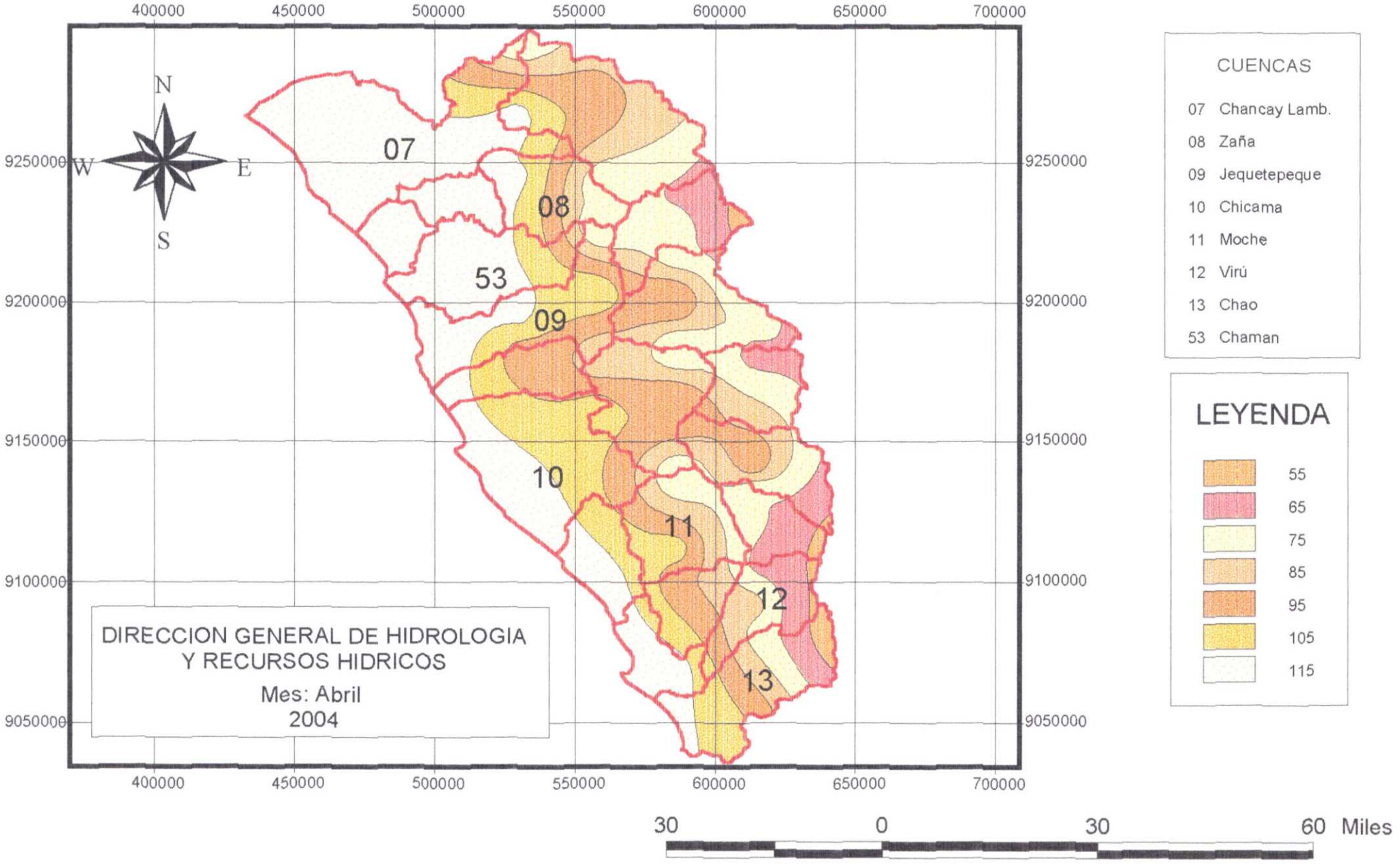
07 Chancay Lamb.
08 Zaña
09 Jequetepeque
10 Chicama
11 Moche
12 Virú
13 Chao
53 Chaman

LEYENDA

75
85
95
105
115
125
135

30 0 30 60 Miles

EVAPOTRANSPIRACION DE REFERENCIA (ETo)



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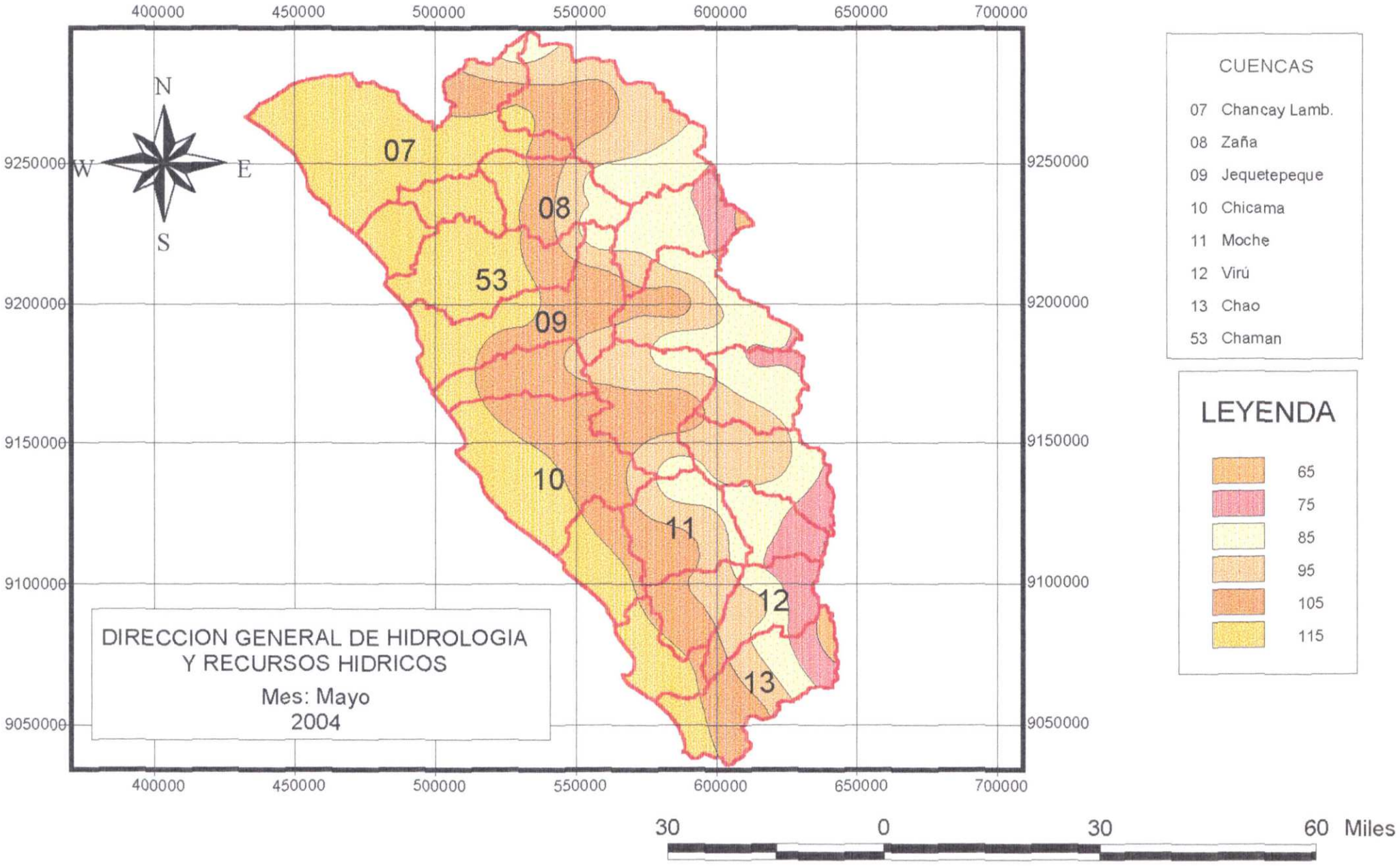

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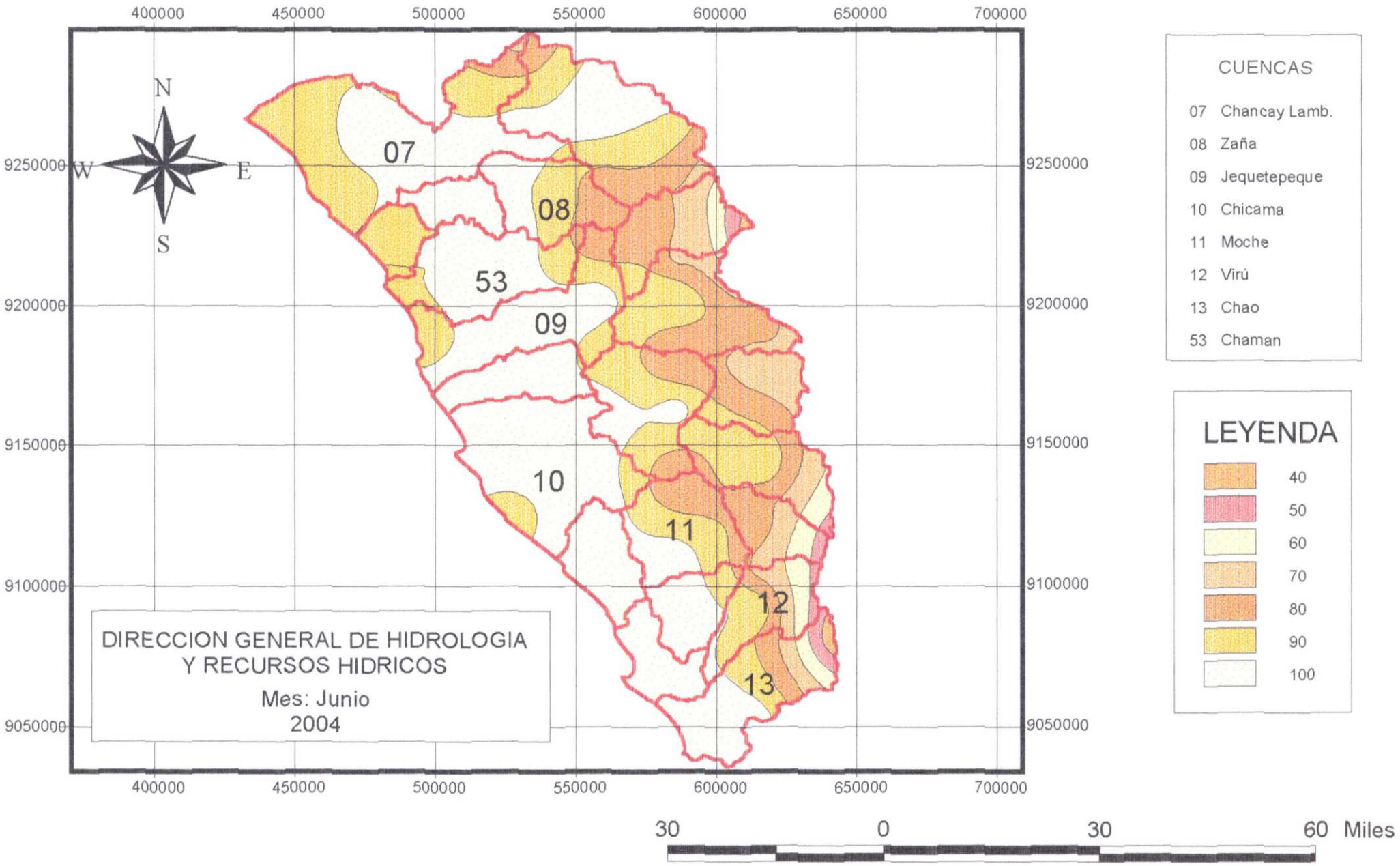

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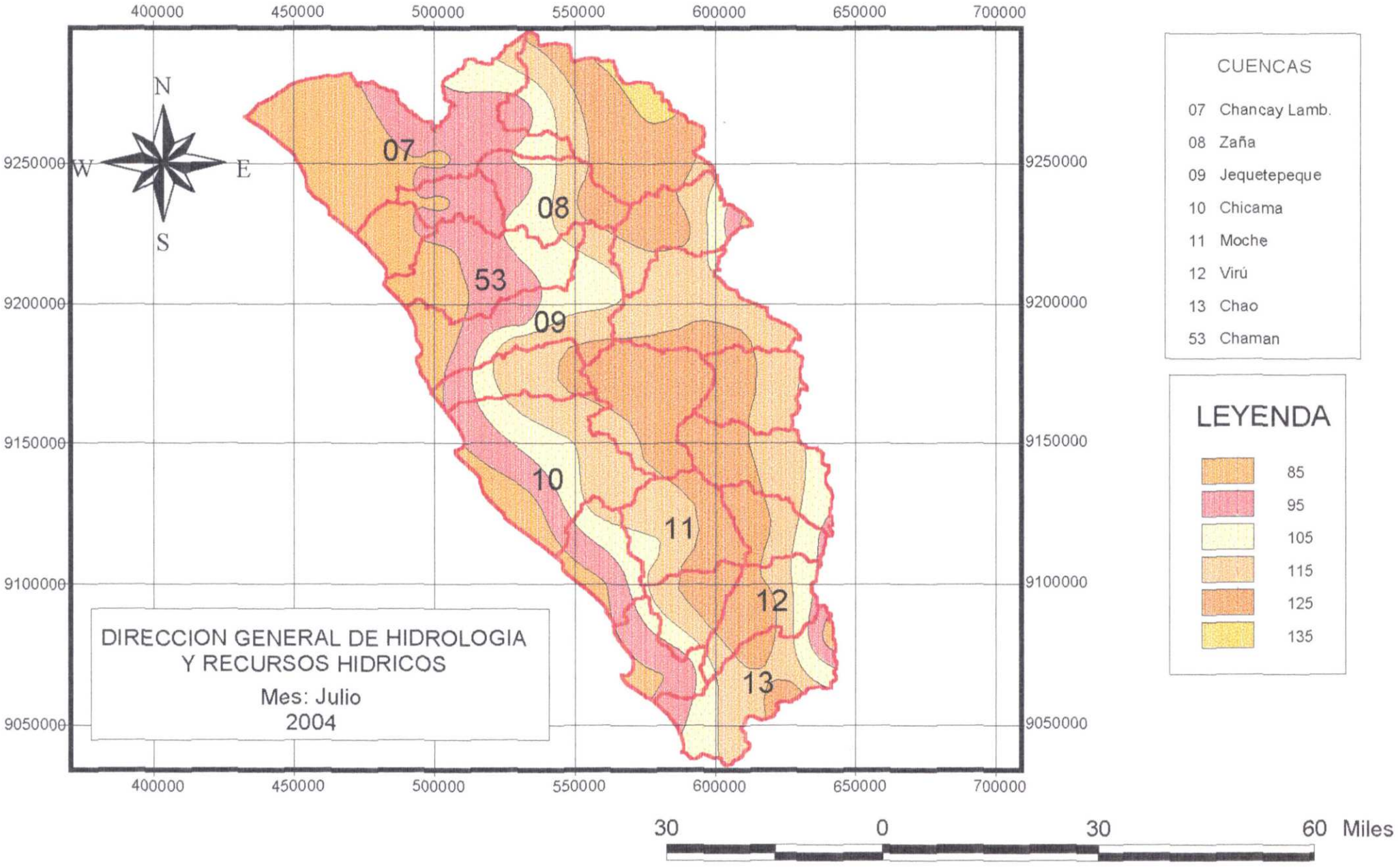

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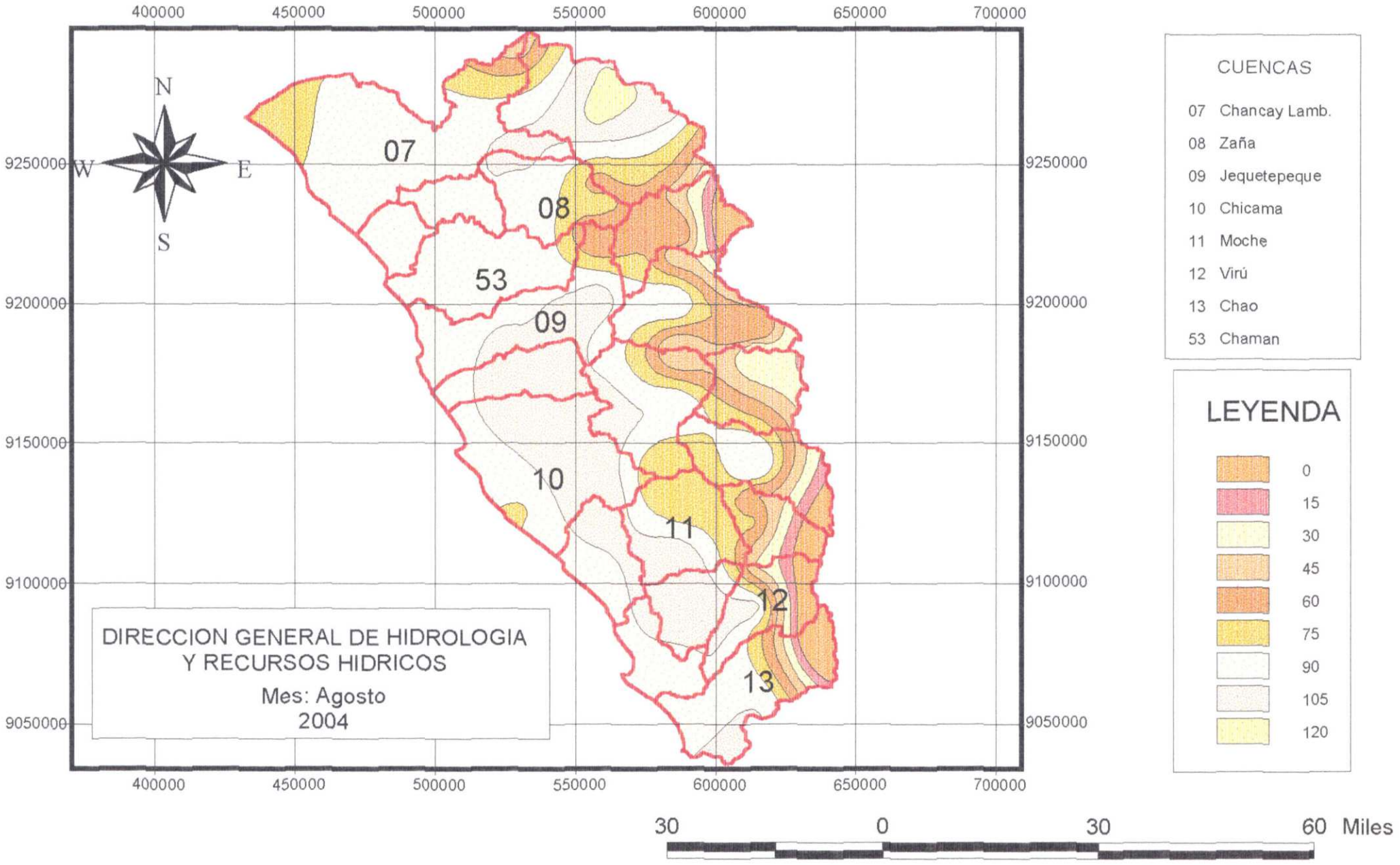

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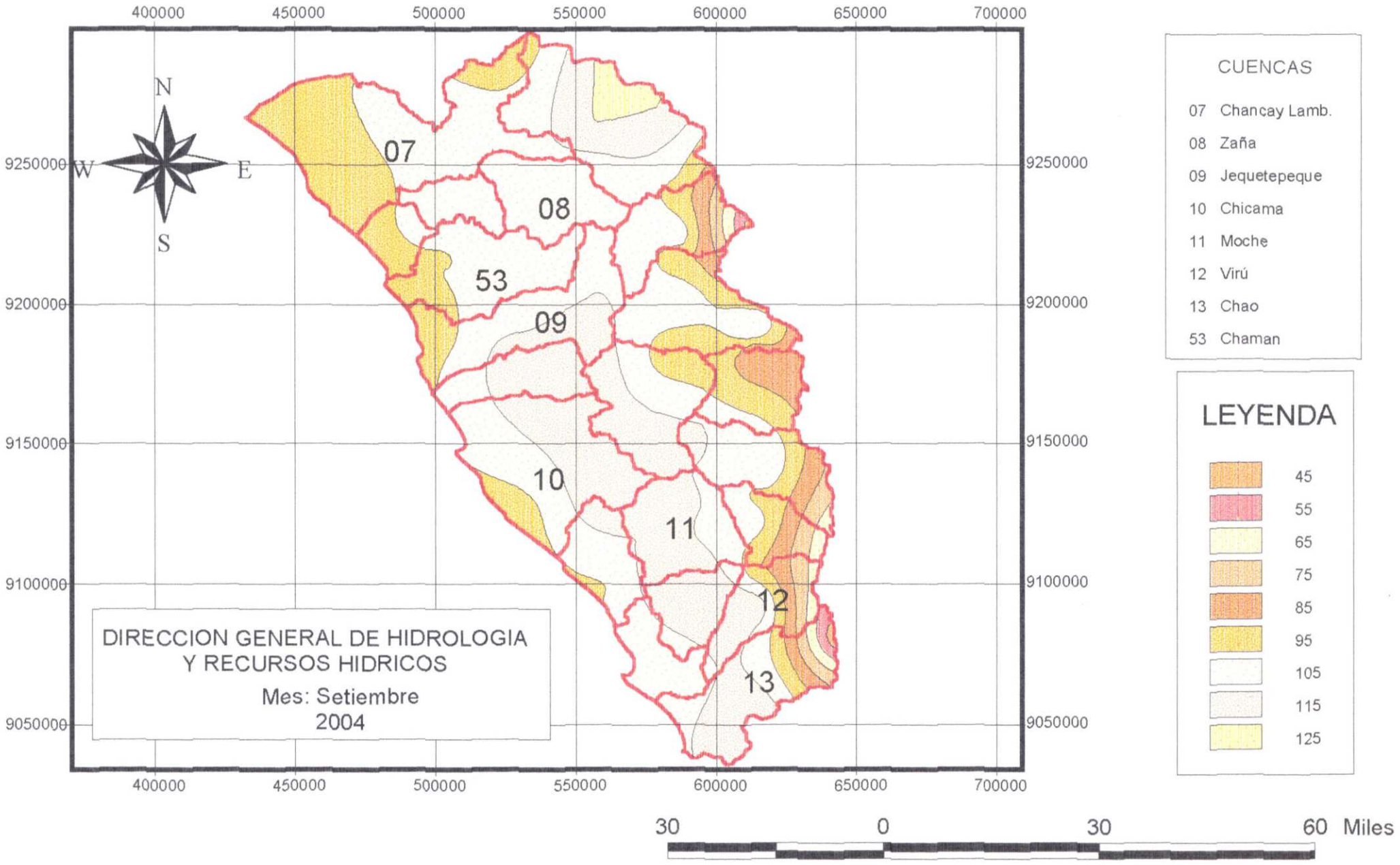

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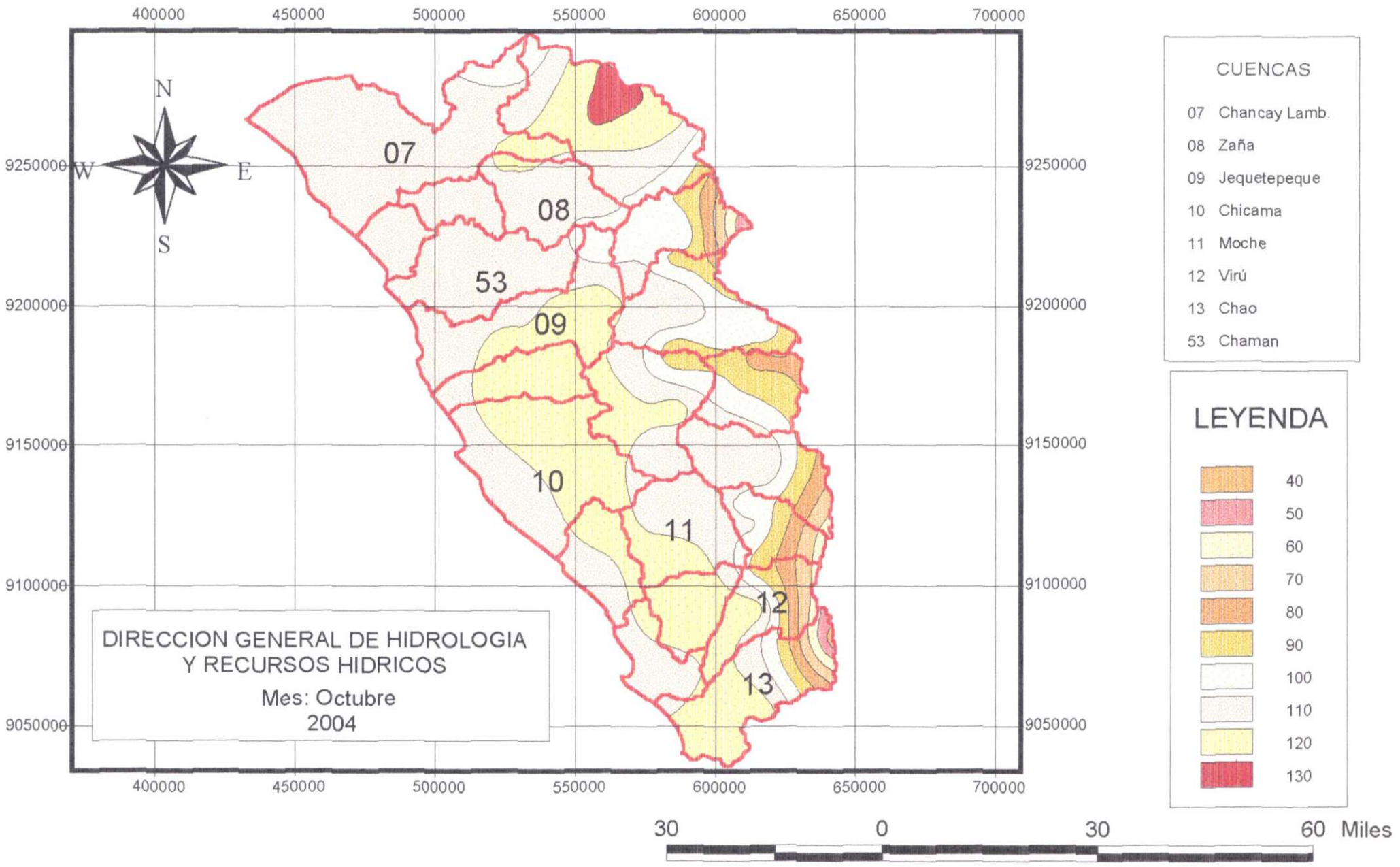

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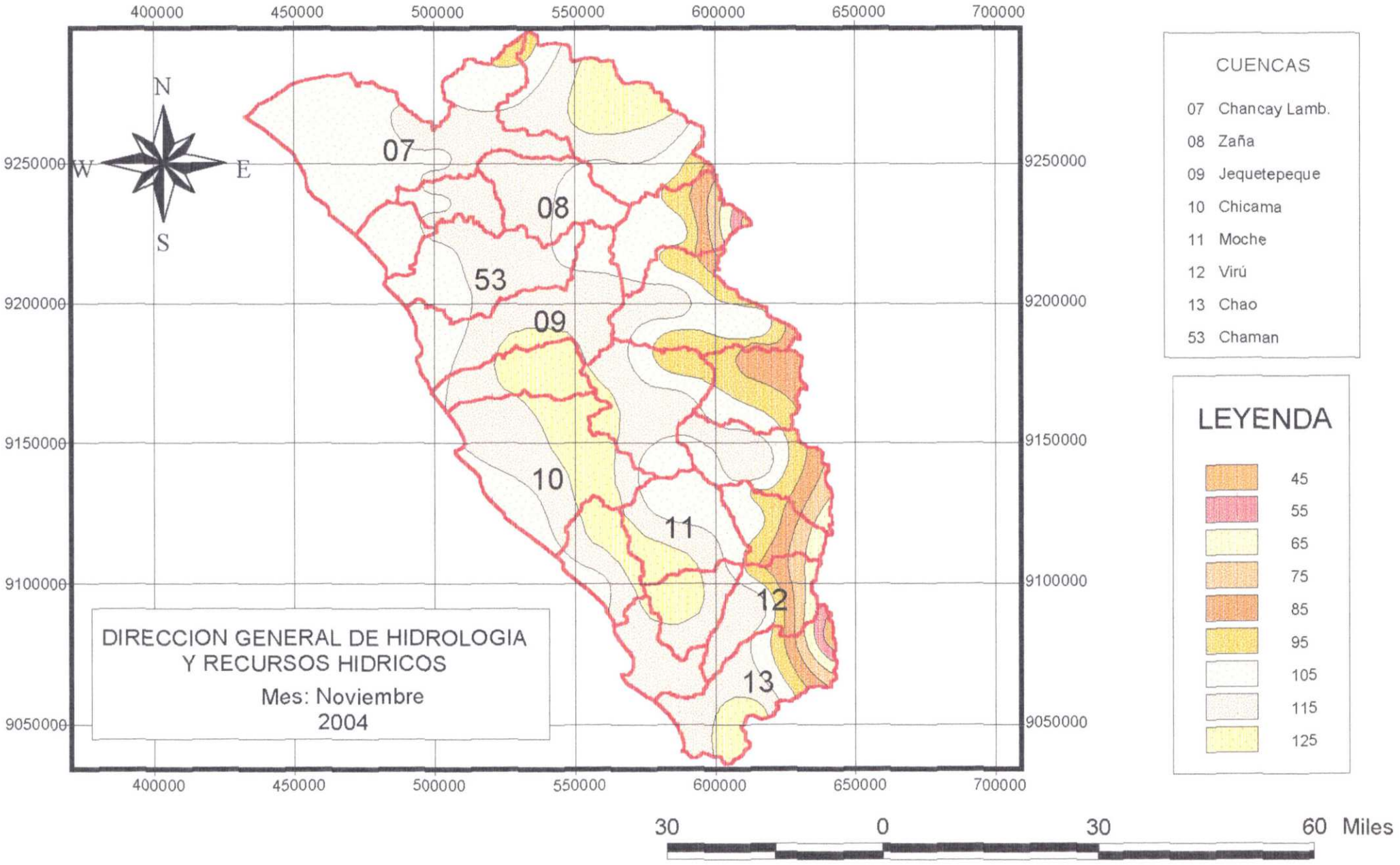

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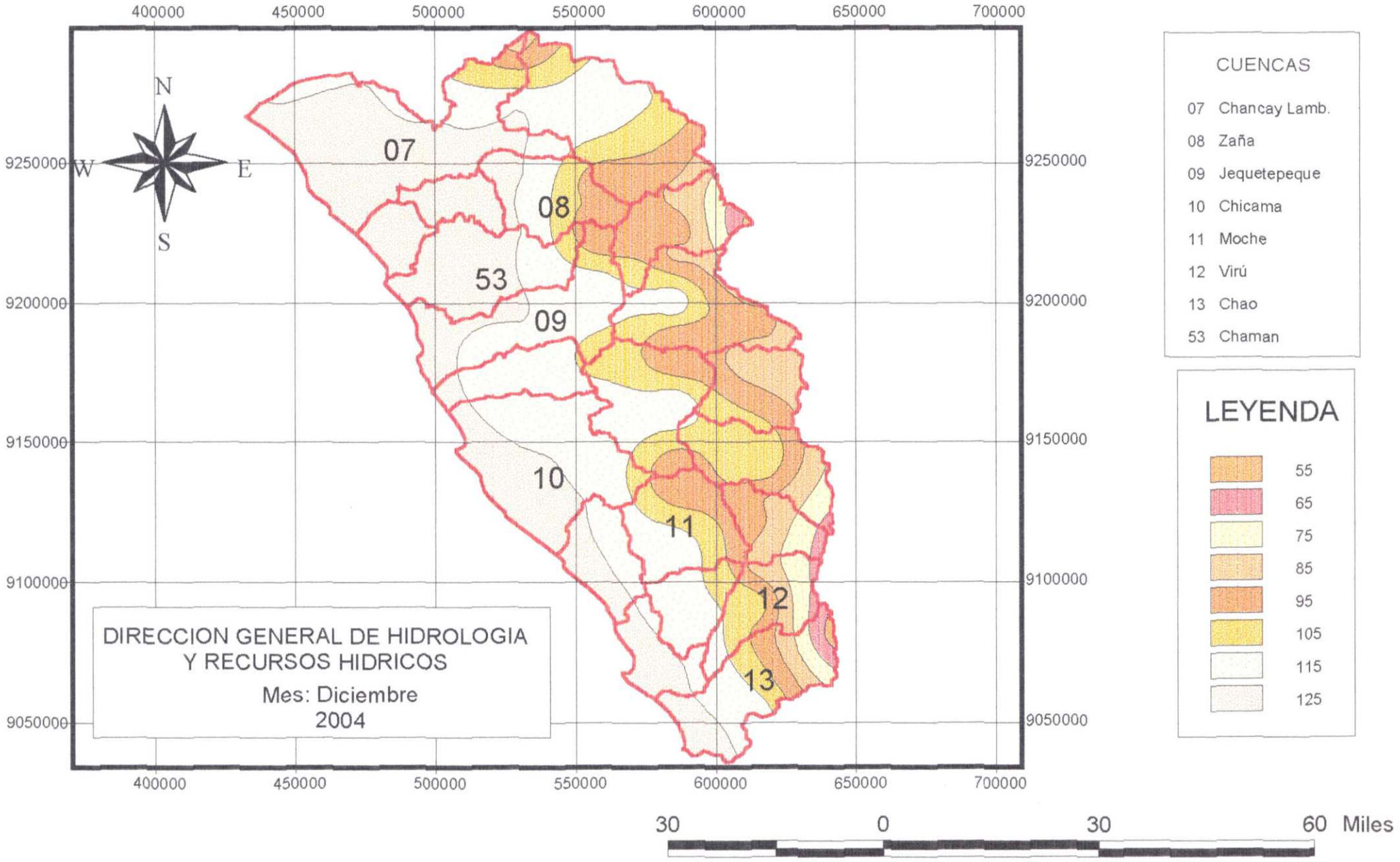
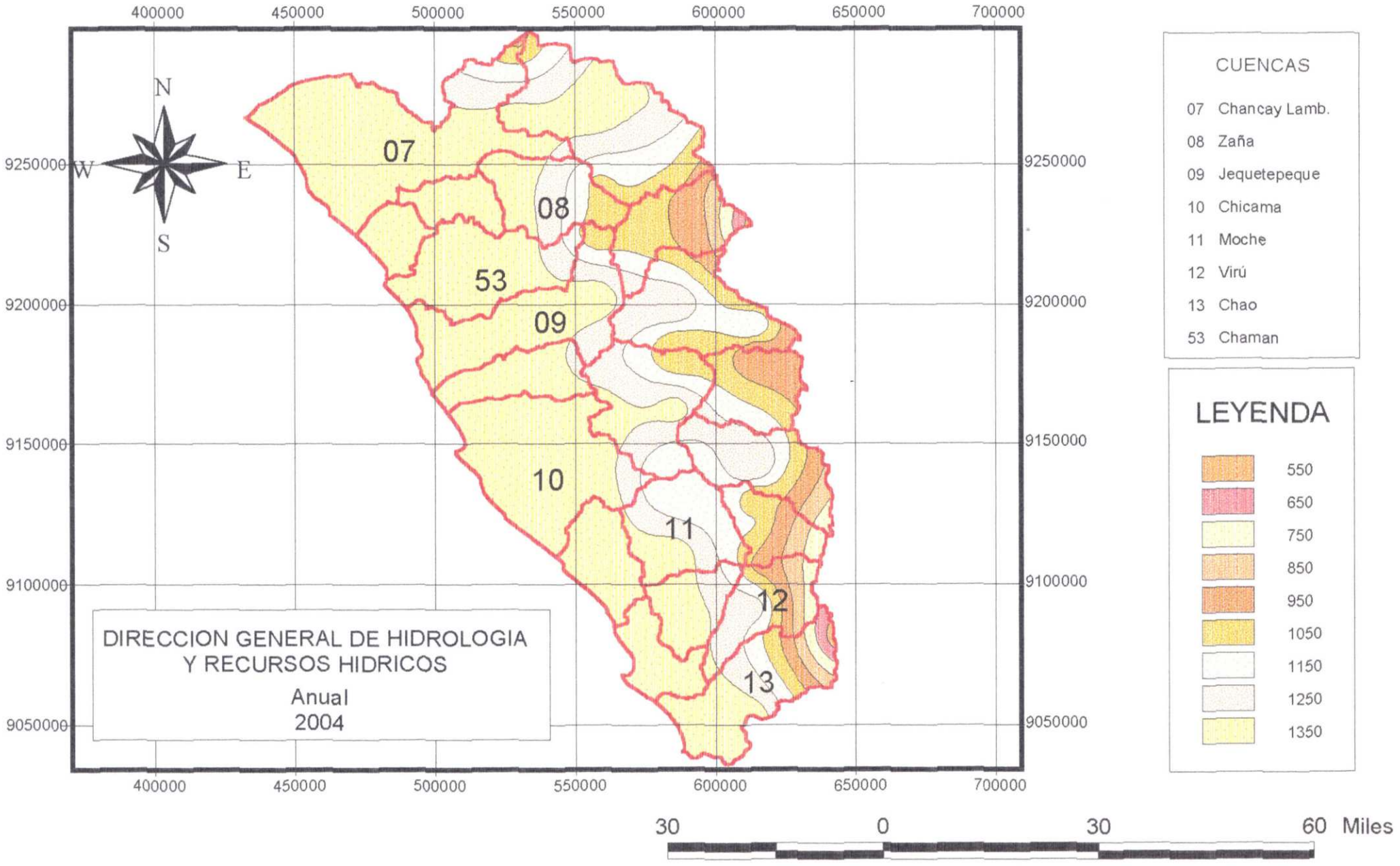
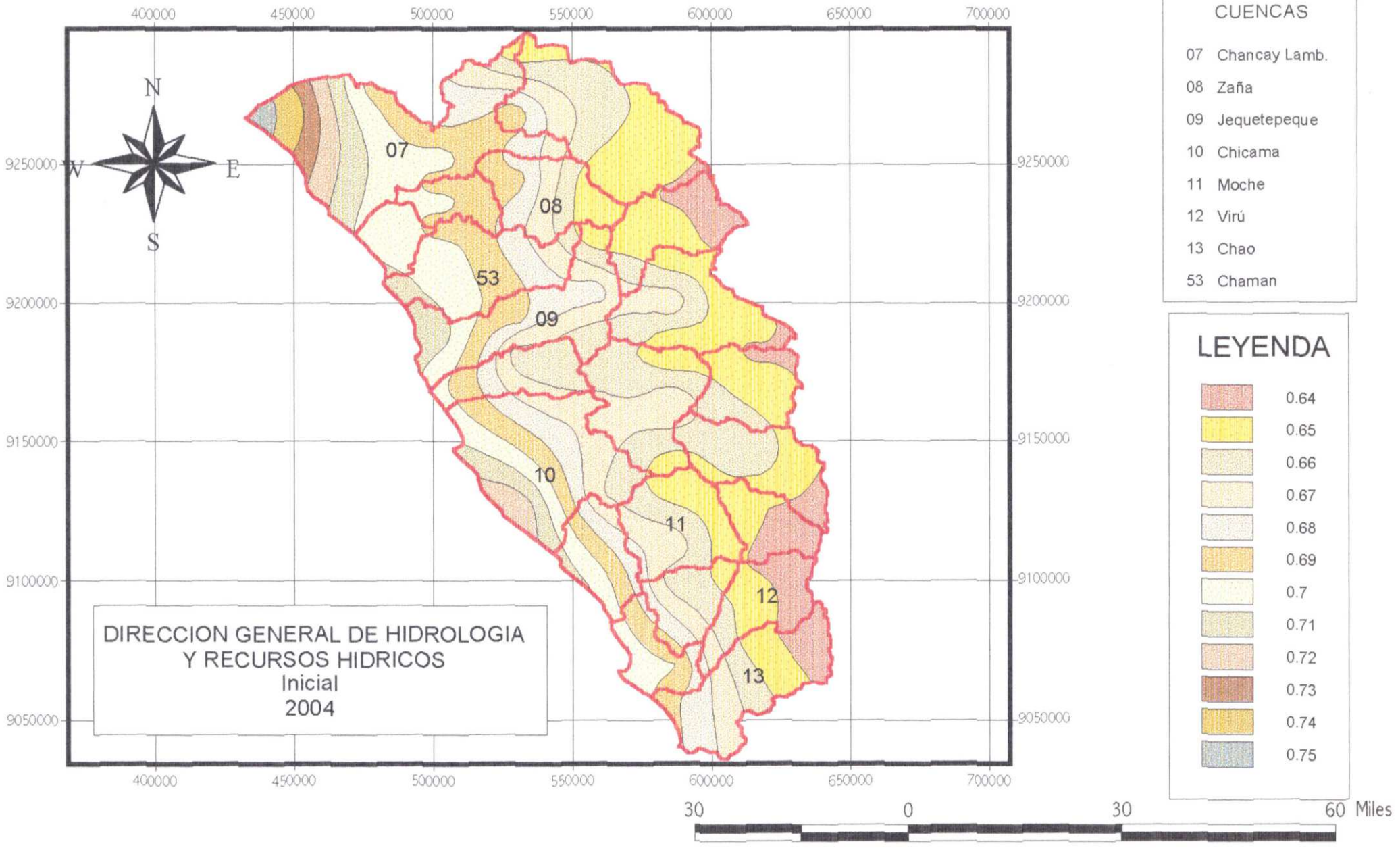


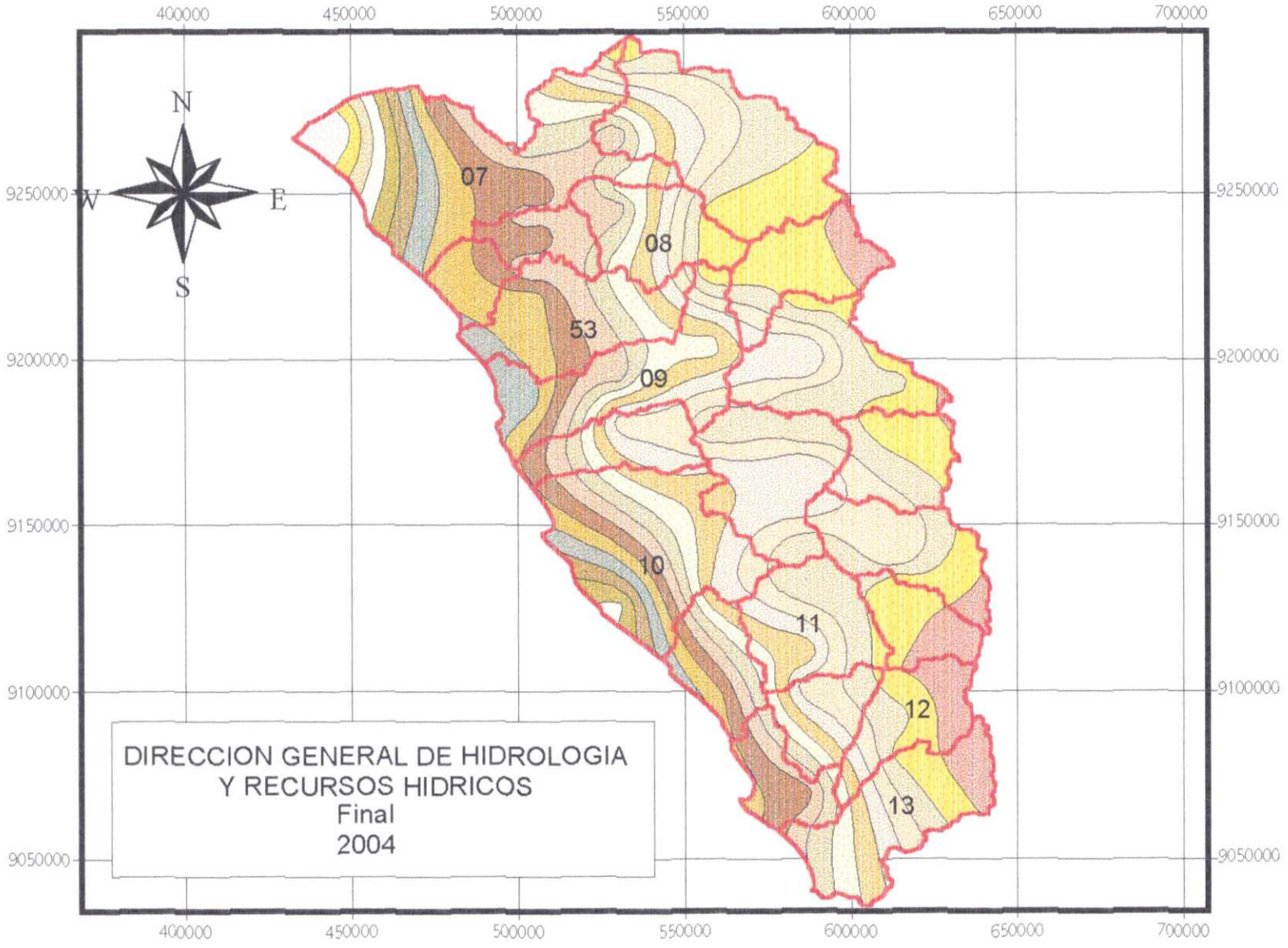
EVAPOTRANSPIRACION DE REFERENCIA (ETo)



COEFICIENTE DE CULTIVO (Kc)



COEFICIENTE DE CULTIVO (Kc)



CUENCAS

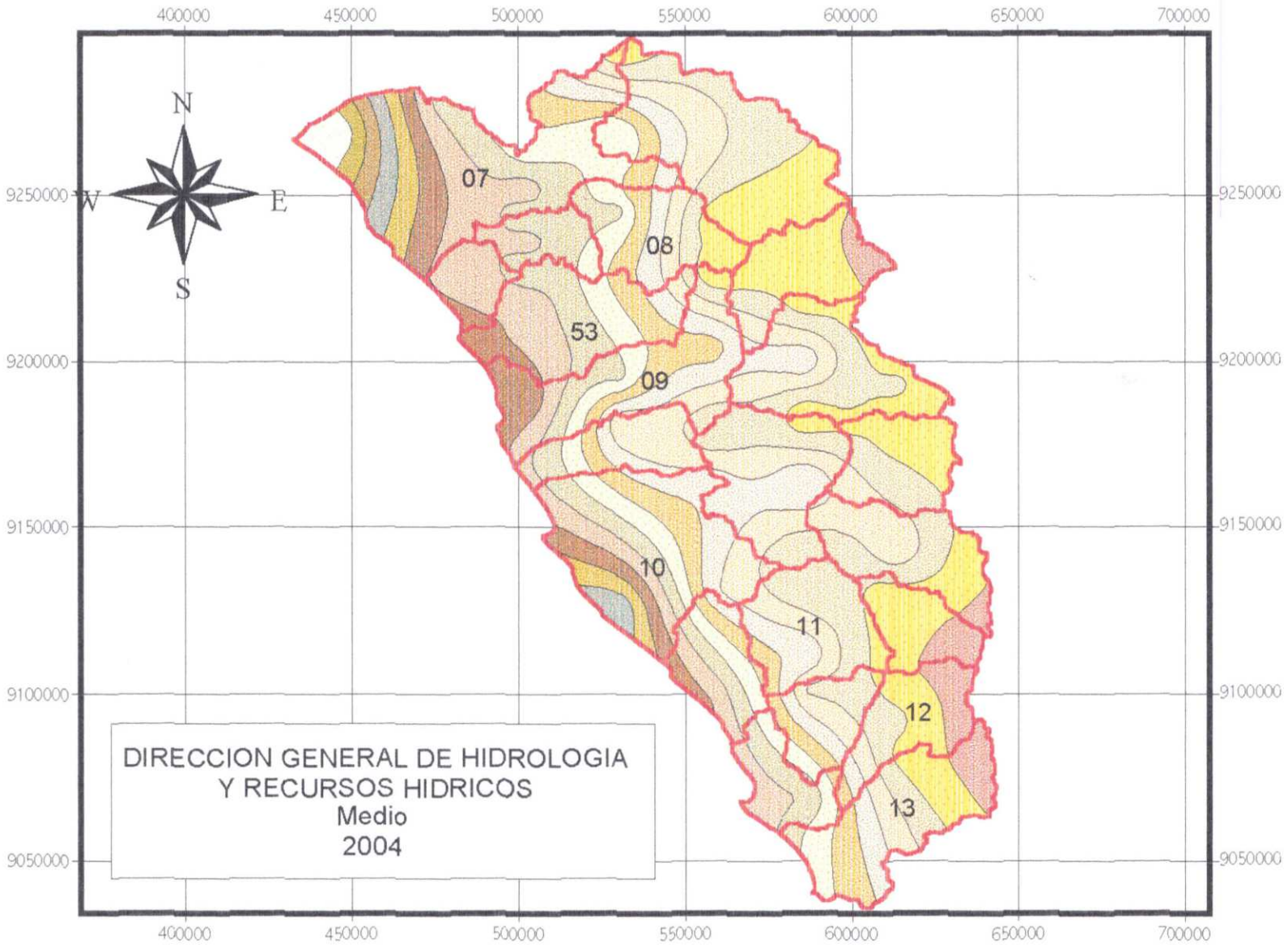
07 Chancay Lamb.
08 Zaña
09 Jequetepeque
10 Chicama
11 Moche
12 Virú
13 Chao
53 Chaman

LEYENDA

0.61
0.62
0.63
0.64
0.65
0.66
0.67
0.68
0.69
0.7
0.71
0.72
0.73
0.74
0.75
0.76
0.77
0.78

30 0 30 60 Miles

COEFICIENTE DE CULTIVO (Kc)



CUENCAS

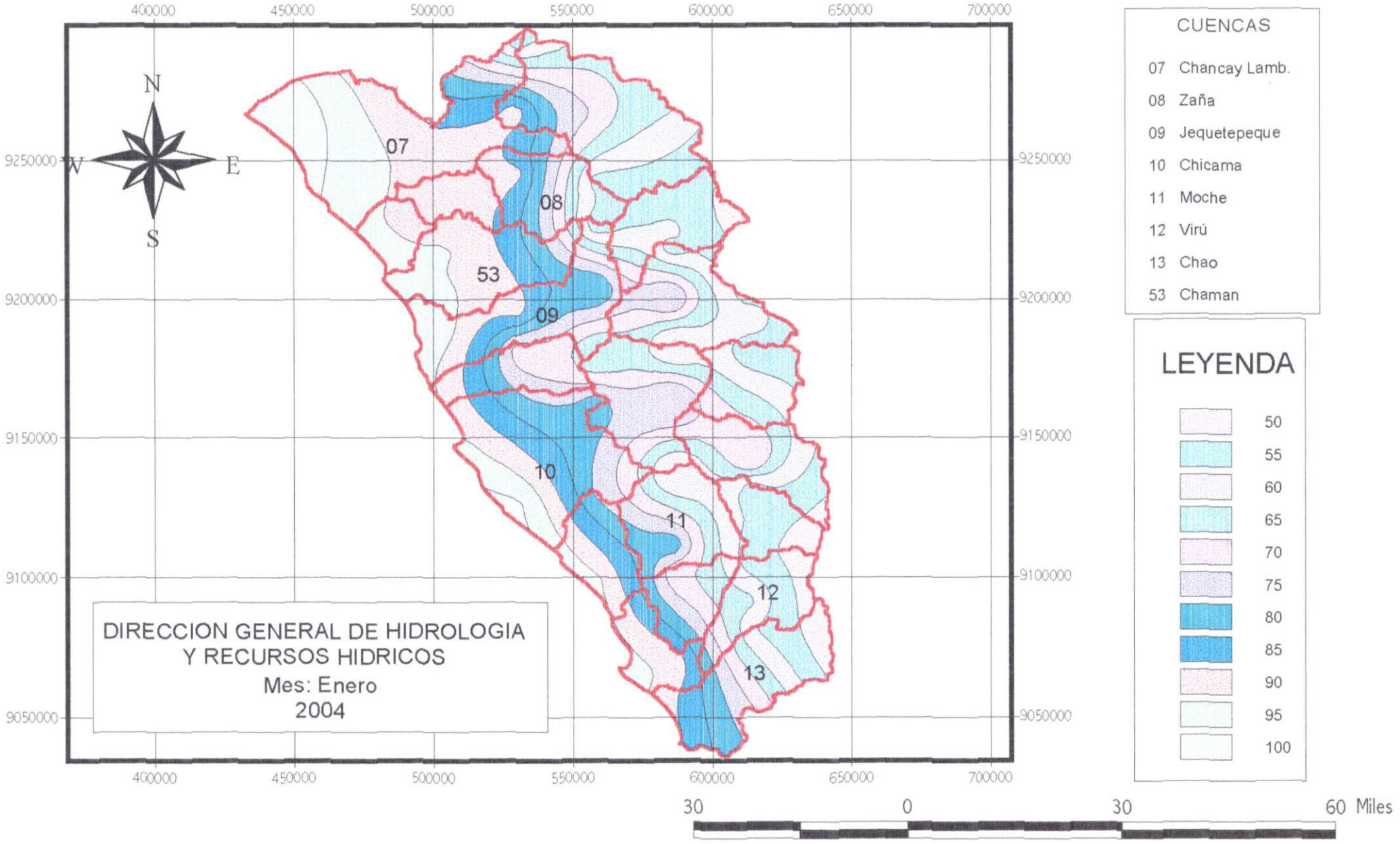
07	Chancay Lamb.
08	Zaña
09	Jequetepeque
10	Chicama
11	Moche
12	Virú
13	Chao
53	Chaman

LEYENDA

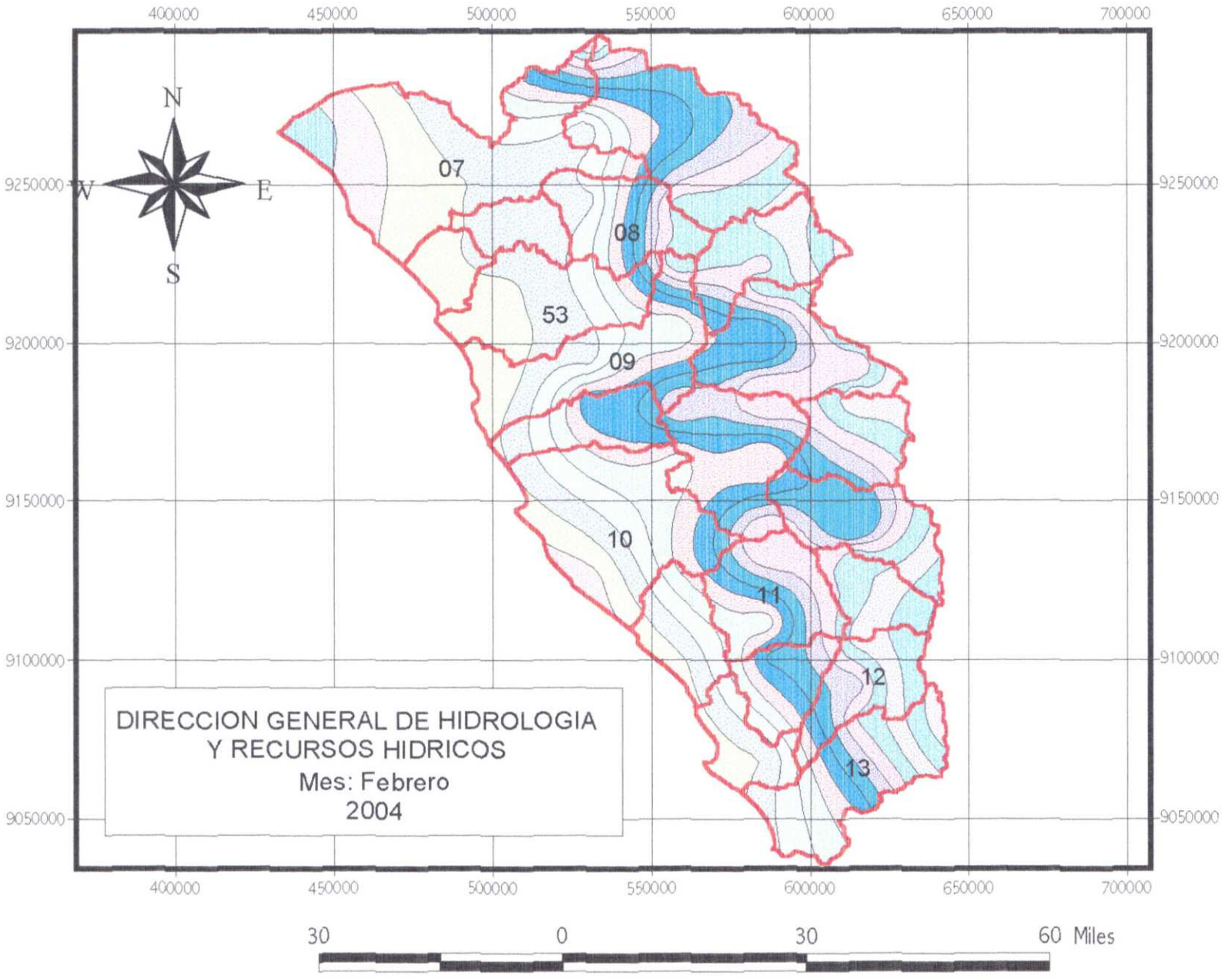
0.79
0.8
0.81
0.82
0.83
0.84
0.85
0.86
0.87
0.88
0.89
0.9
0.91
0.92
0.93

30 0 30 60 Miles

EVAPOTRANSPIRACION DE CULTIVO (ETc)



EVAPOTRANSPIRACION DE CULTIVO (ETc)



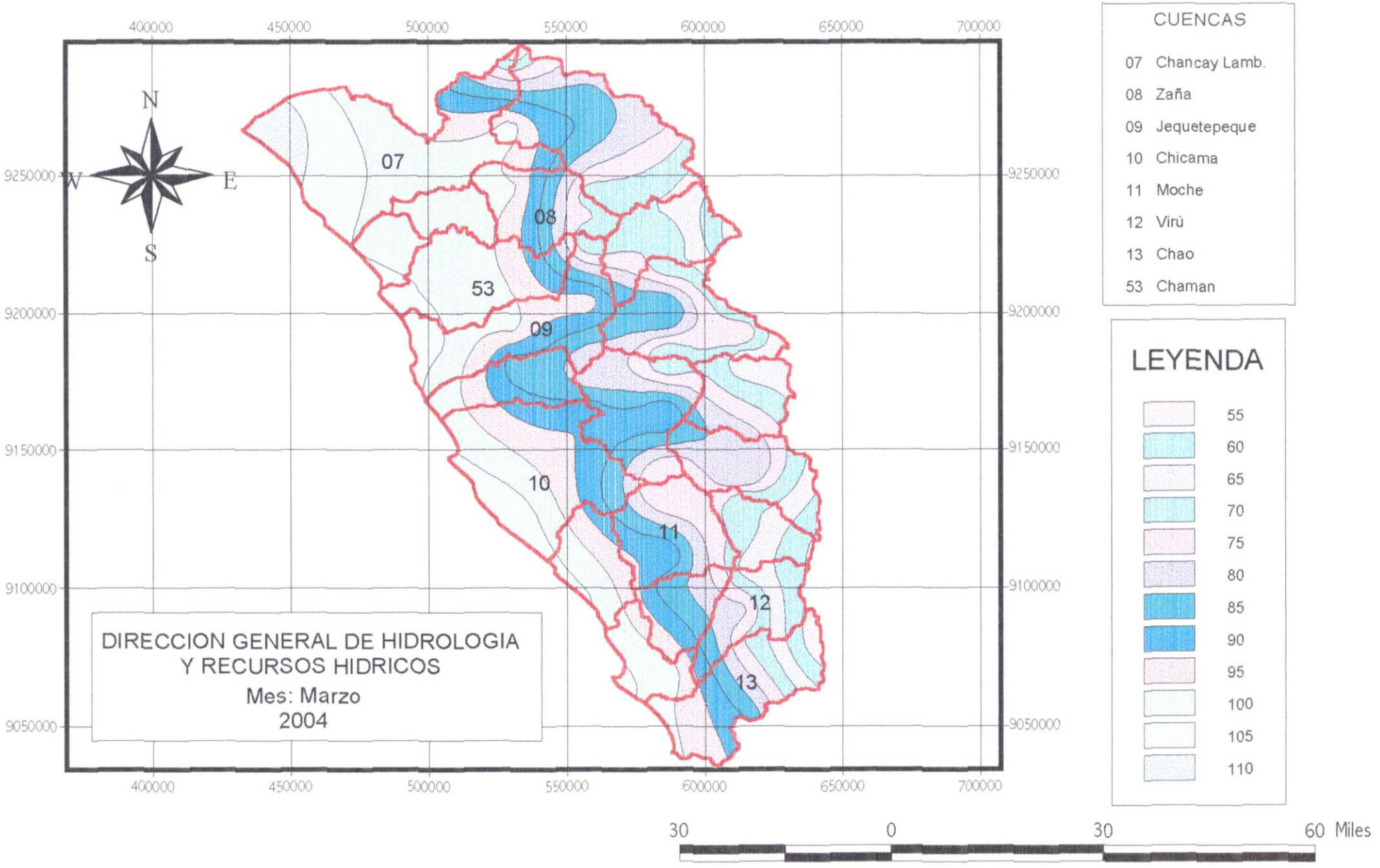
CUENCAS

07	Chancay Lamb.
08	Zaña
09	Jequetepeque
10	Chicama
11	Moche
12	Virú
13	Chao
53	Chaman

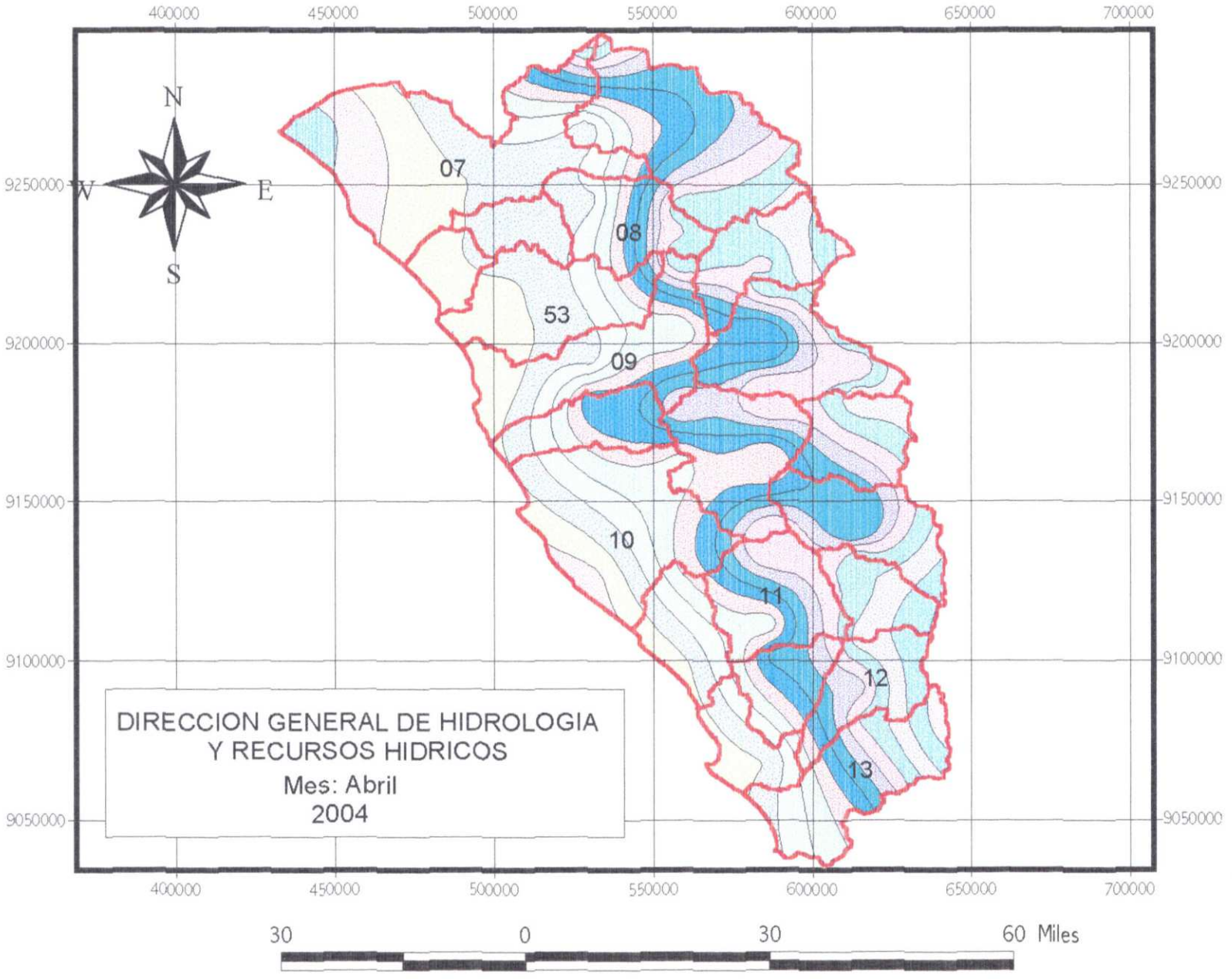
LEYENDA

45
50
55
60
65
70
75
80
85
90
95
100
105
110
115

EVAPOTRANSPIRACION DE CULTIVO (ETc)



EVAPOTRANSPIRACION DE CULTIVO (ETc)



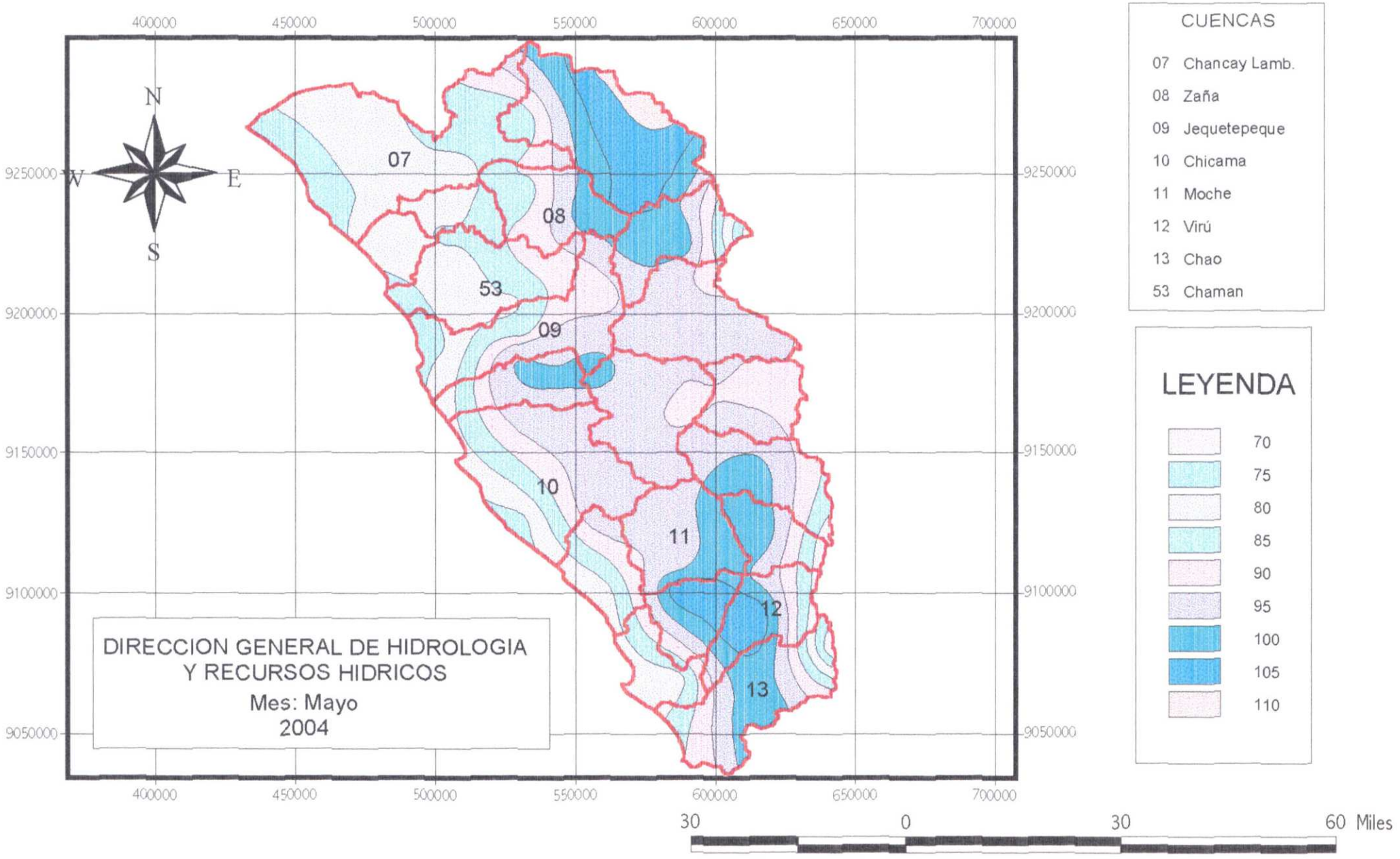
CUENCAS

07	Chancay Lamb.
08	Zaña
09	Jequetepeque
10	Chicama
11	Moche
12	Virú
13	Chao
53	Chaman

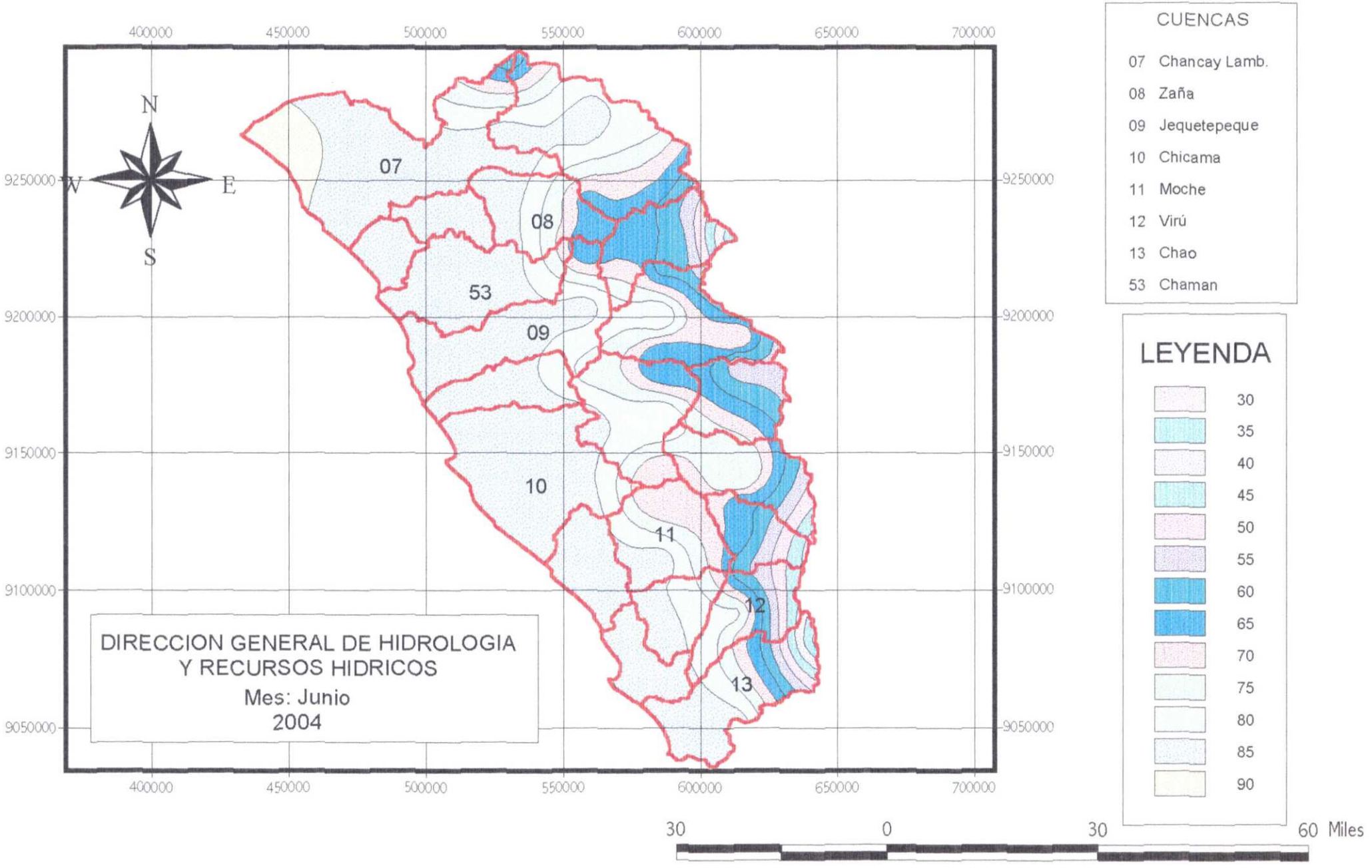
LEYENDA

45
50
55
60
65
70
75
80
85
90
95
100
105
110
115

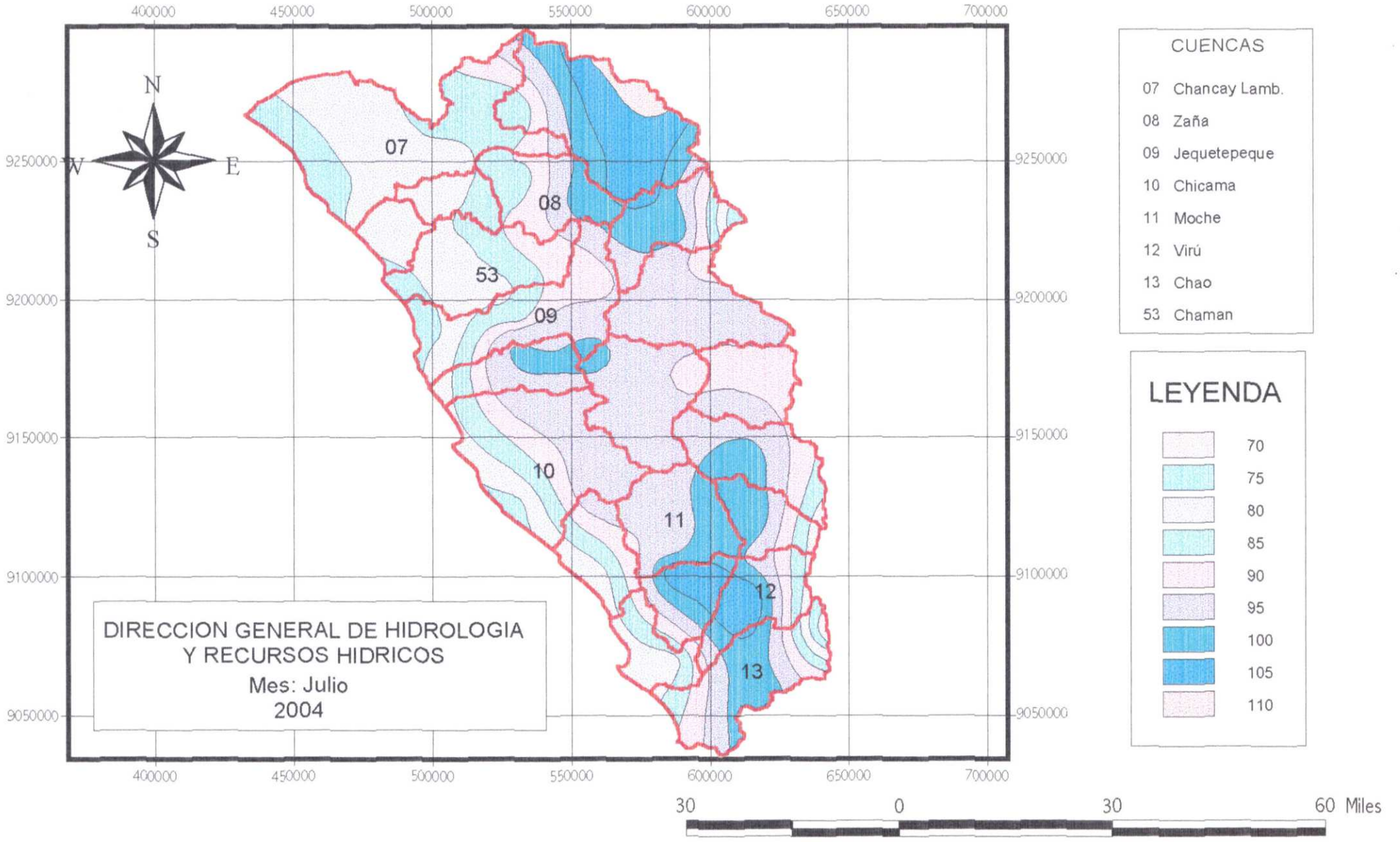
EVAPOTRANSPIRACION DE CULTIVO (ETc)



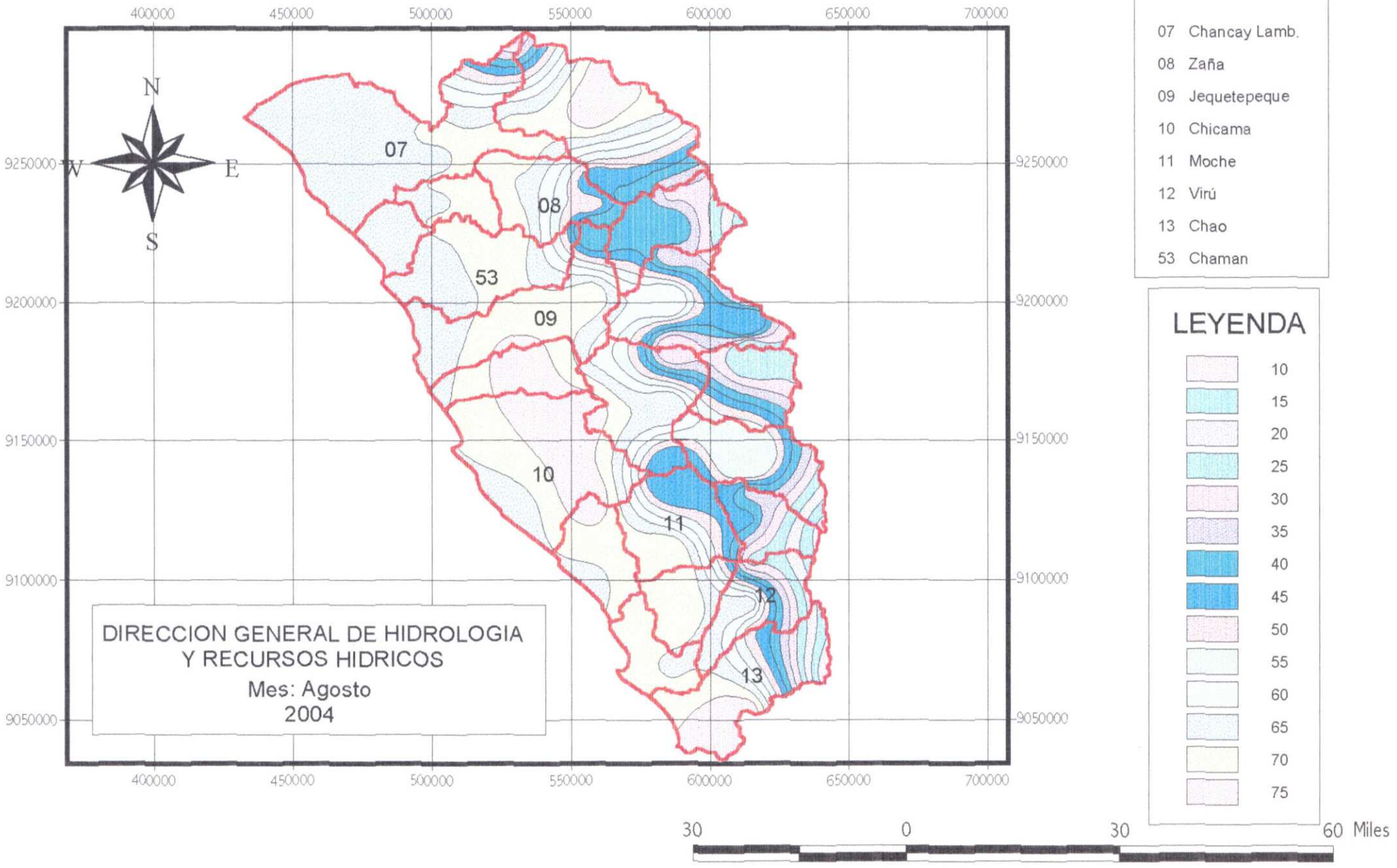
EVAPOTRANSPIRACION DE CULTIVO (ETc)



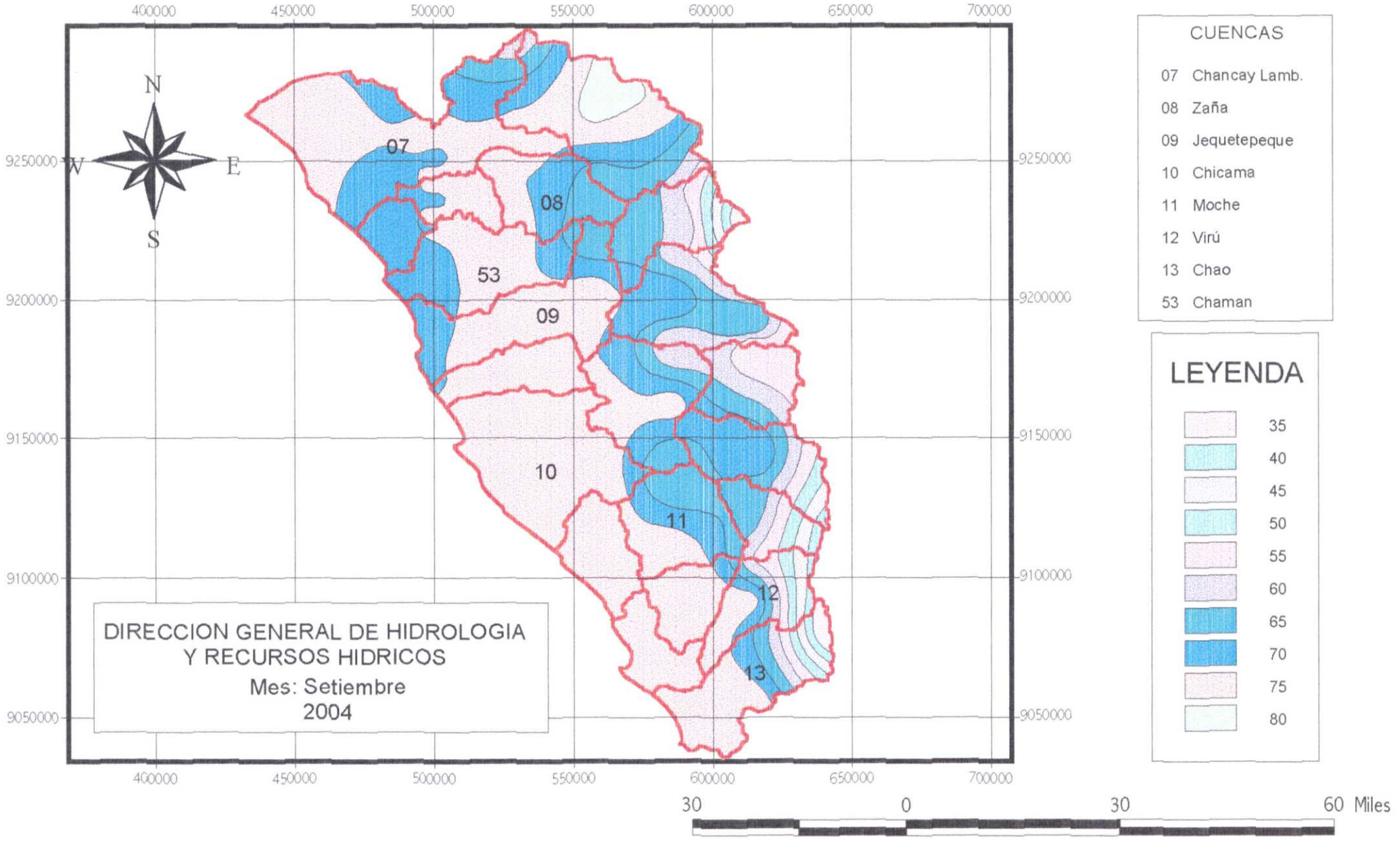
EVAPOTRANSPIRACION DE CULTIVO (ETc)



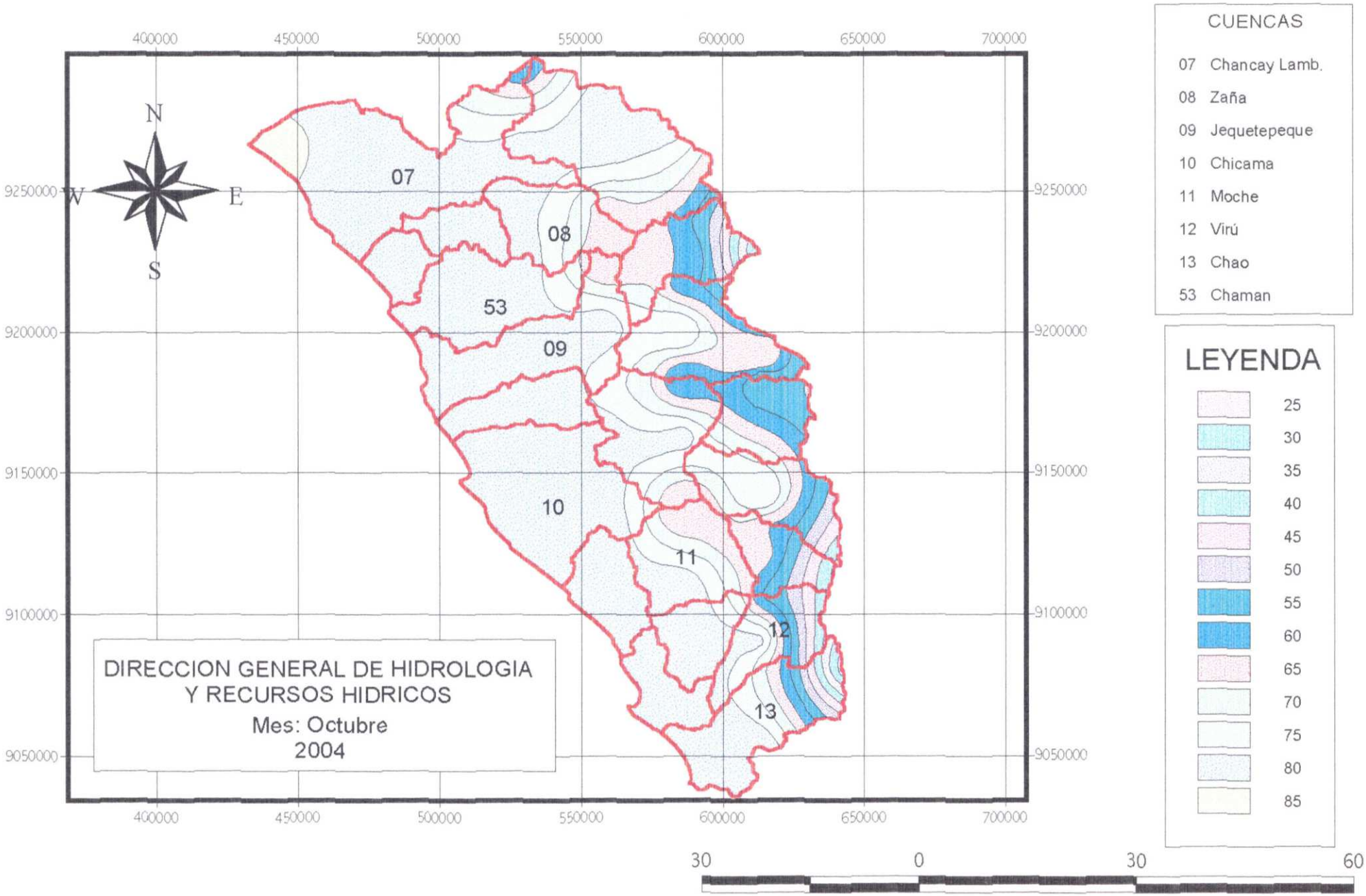
EVAPOTRANSPIRACION DE CULTIVO (ETc)



EVAPOTRANSPIRACION DE CULTIVO (ETc)



EVAPOTRANSPIRACION DE CULTIVO (ETc)



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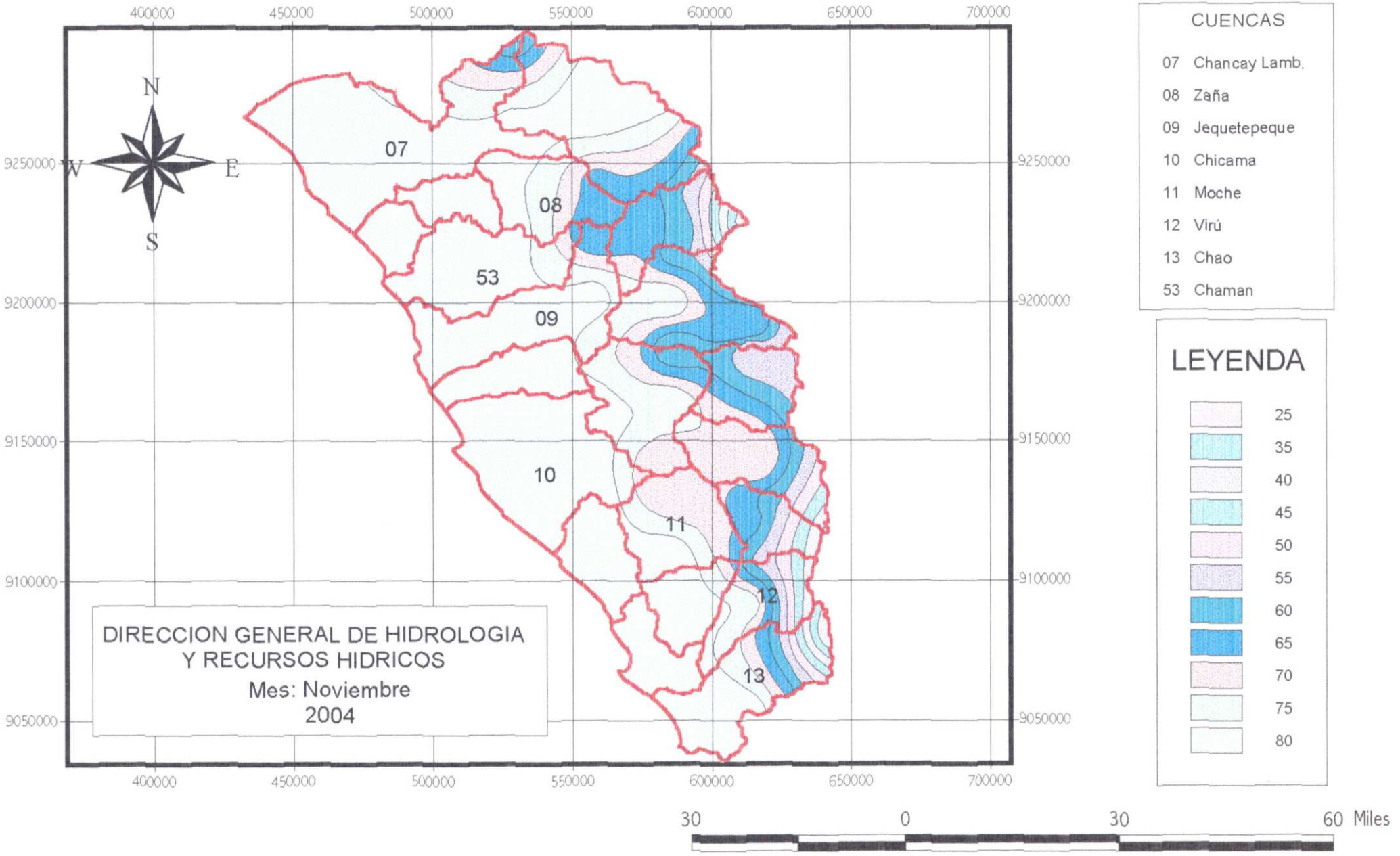

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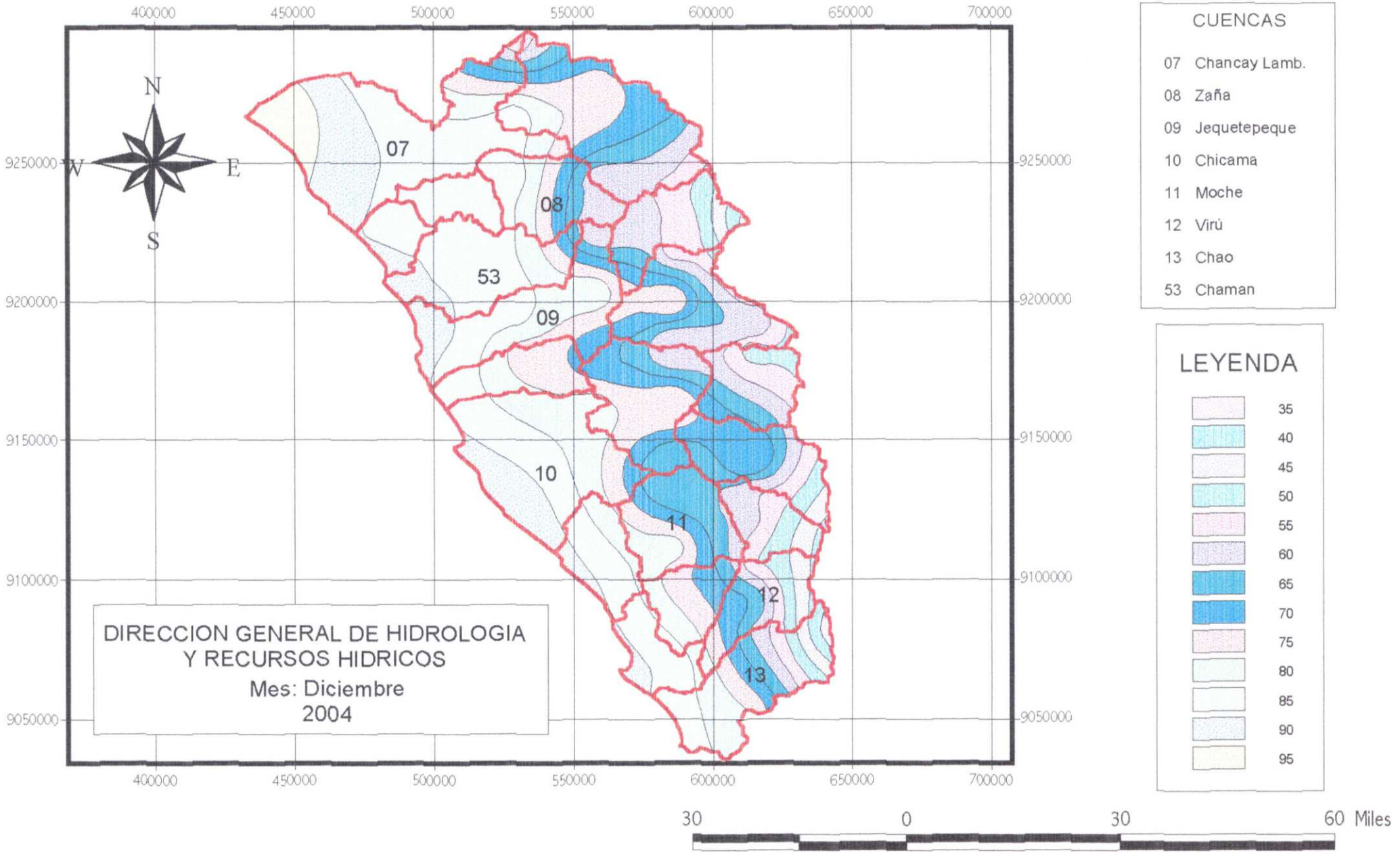

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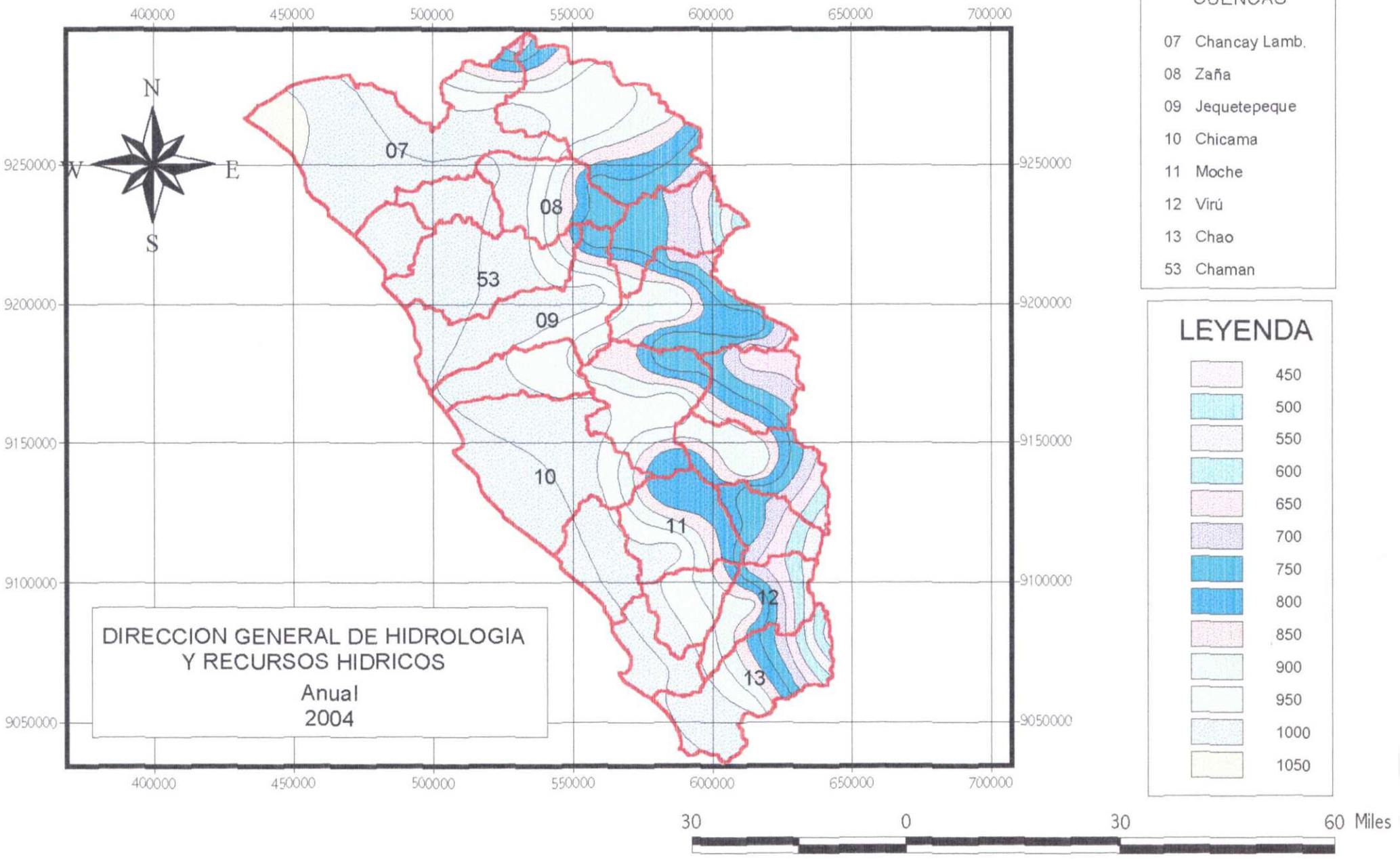

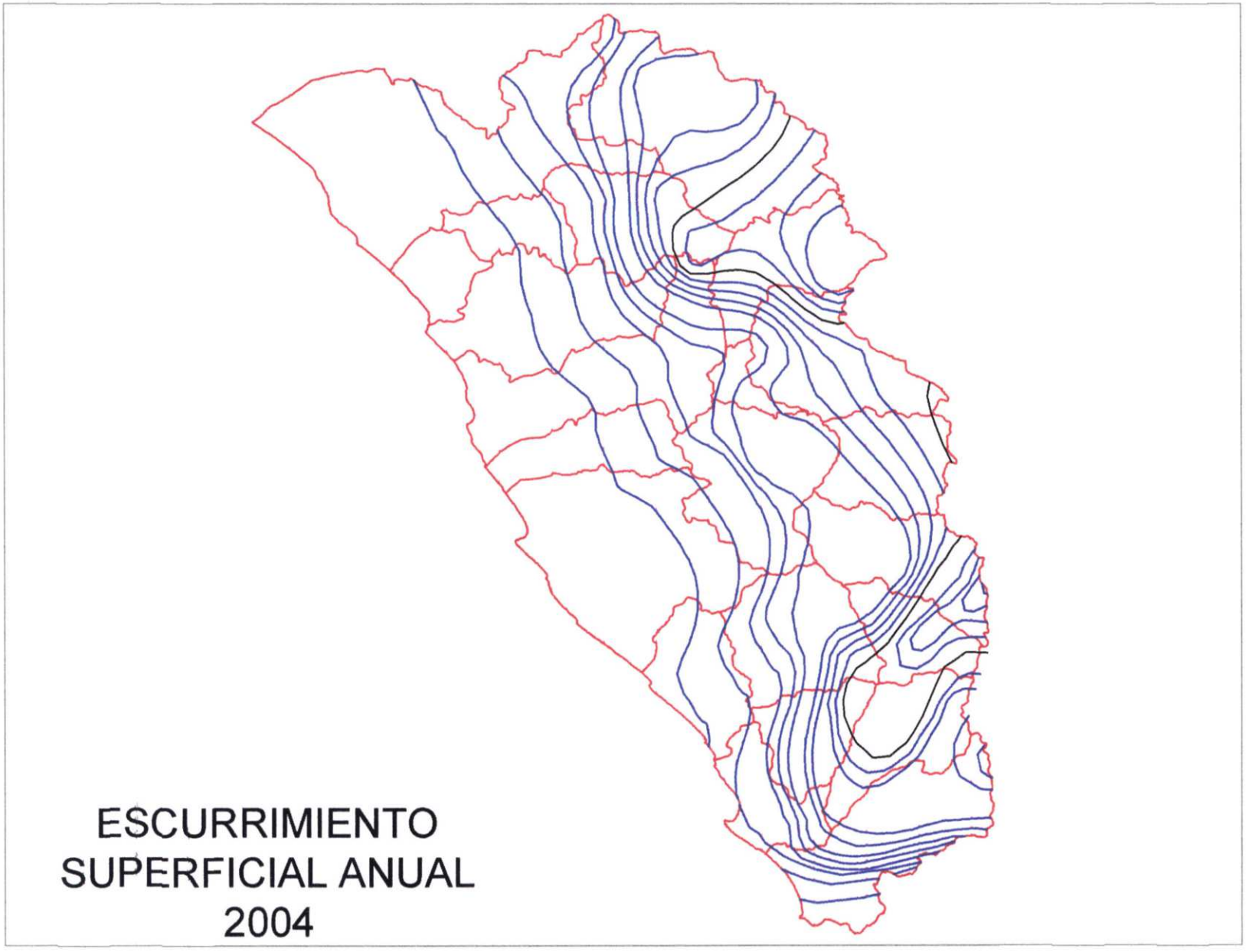

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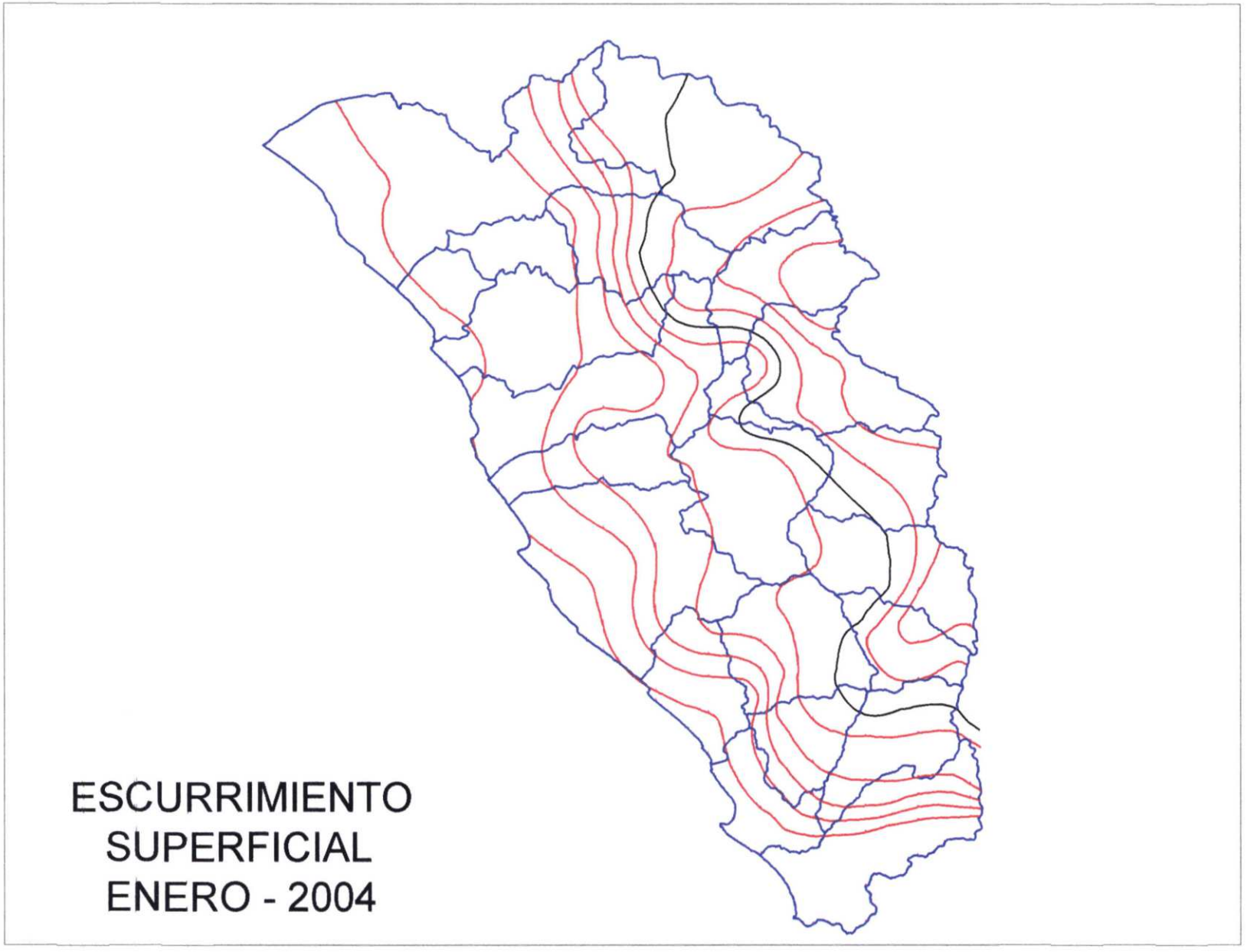

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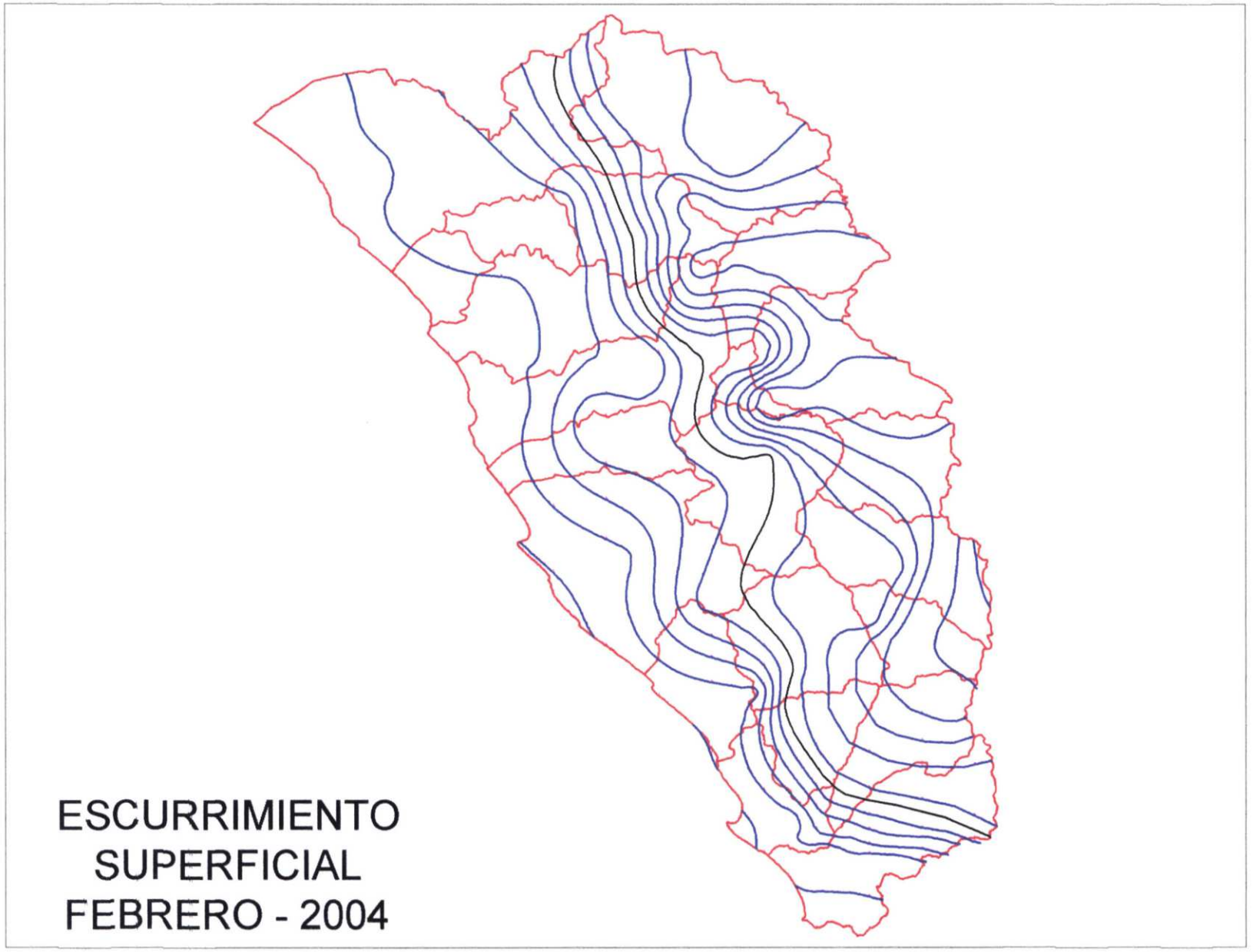

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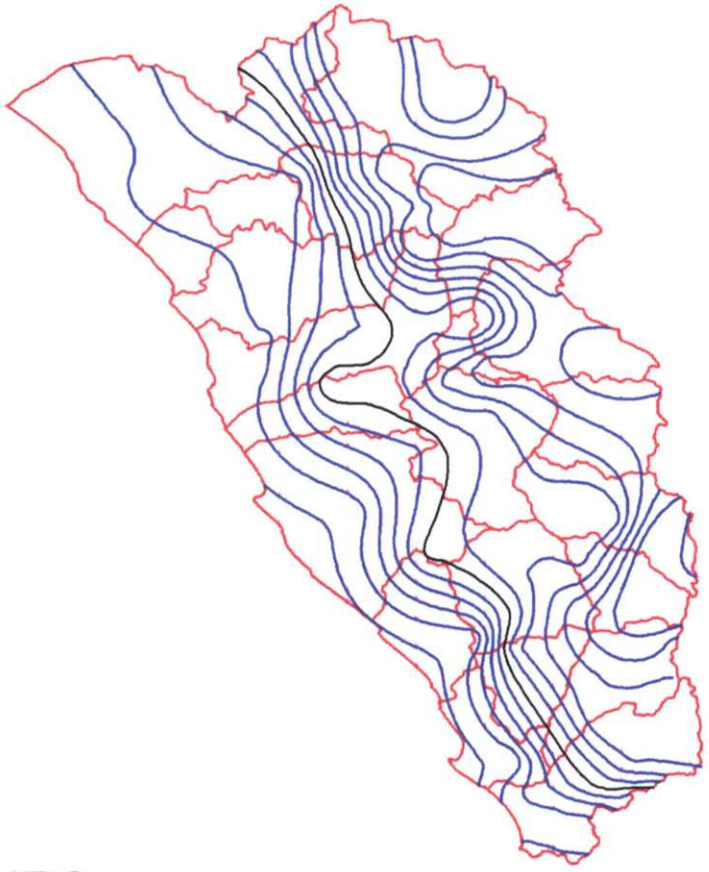

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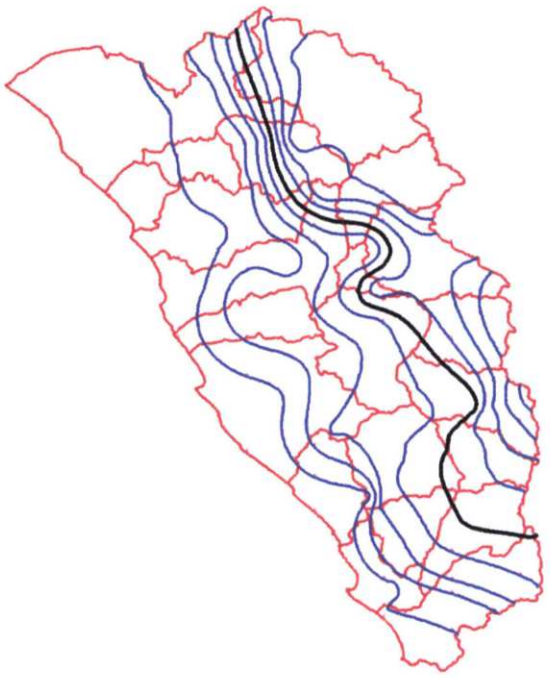

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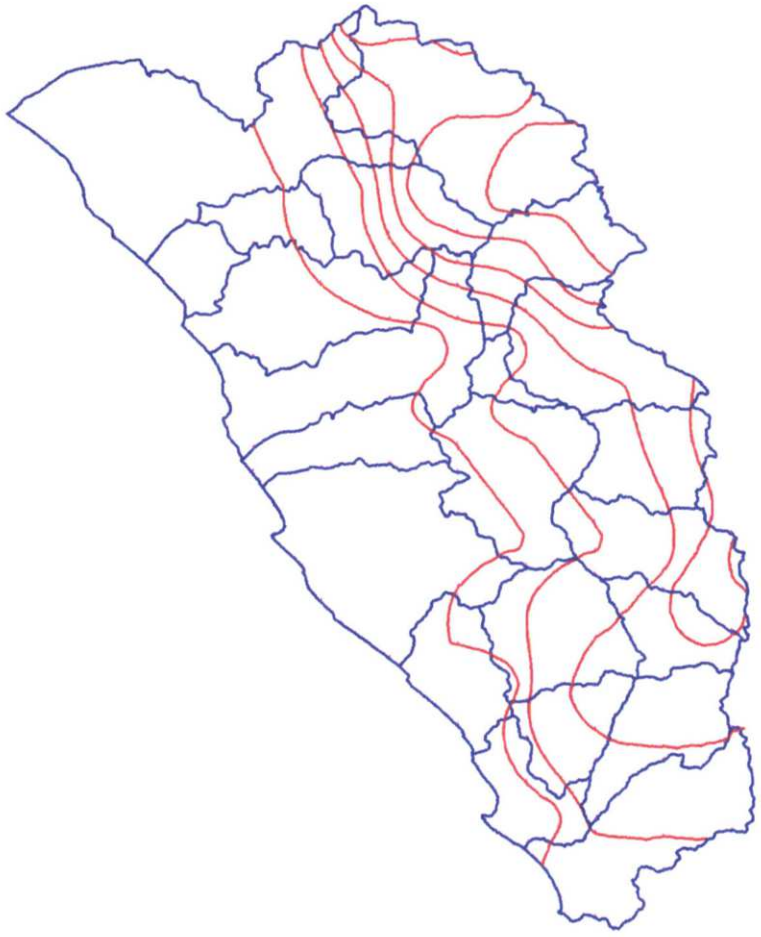

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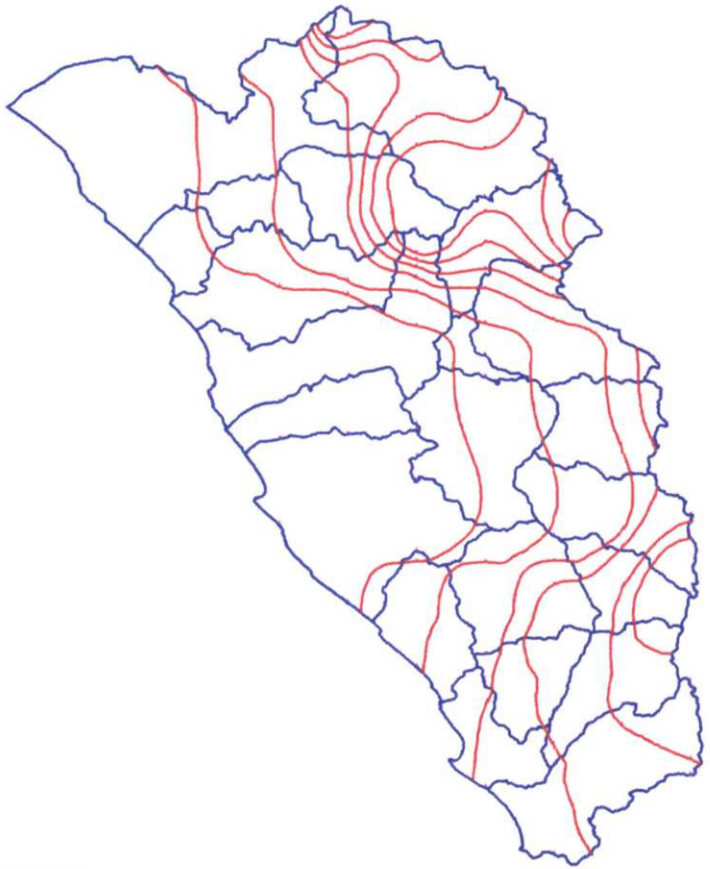

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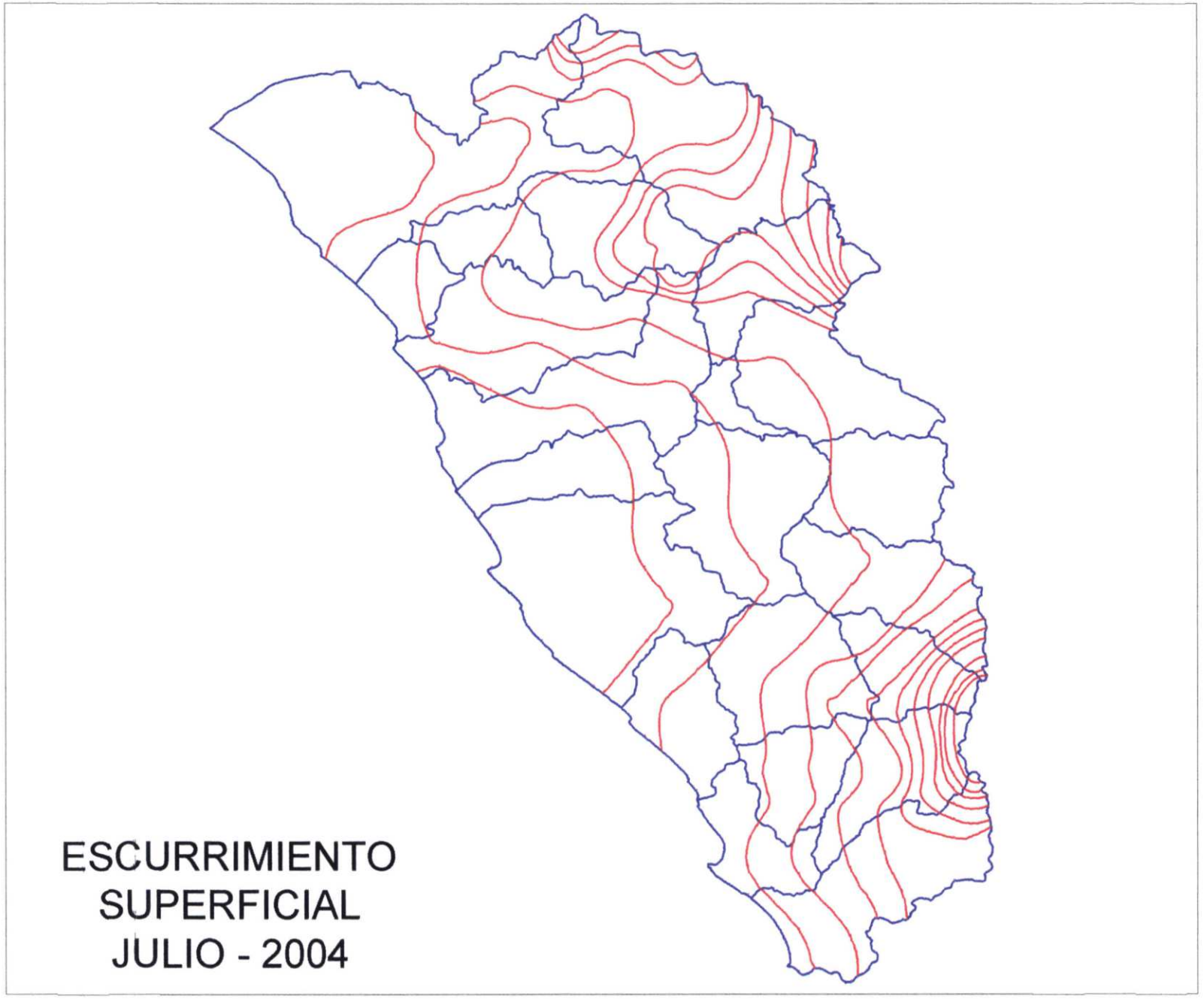
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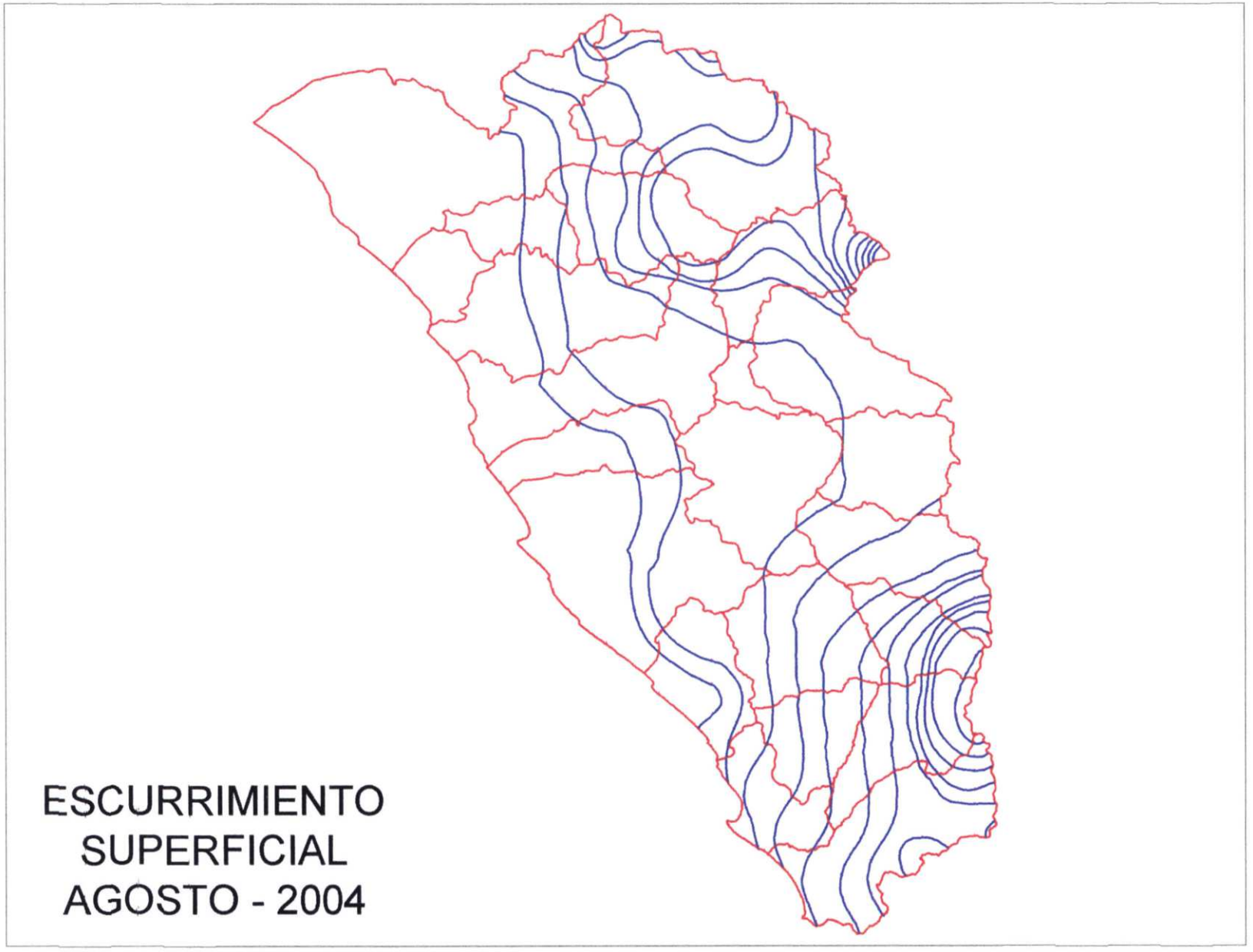

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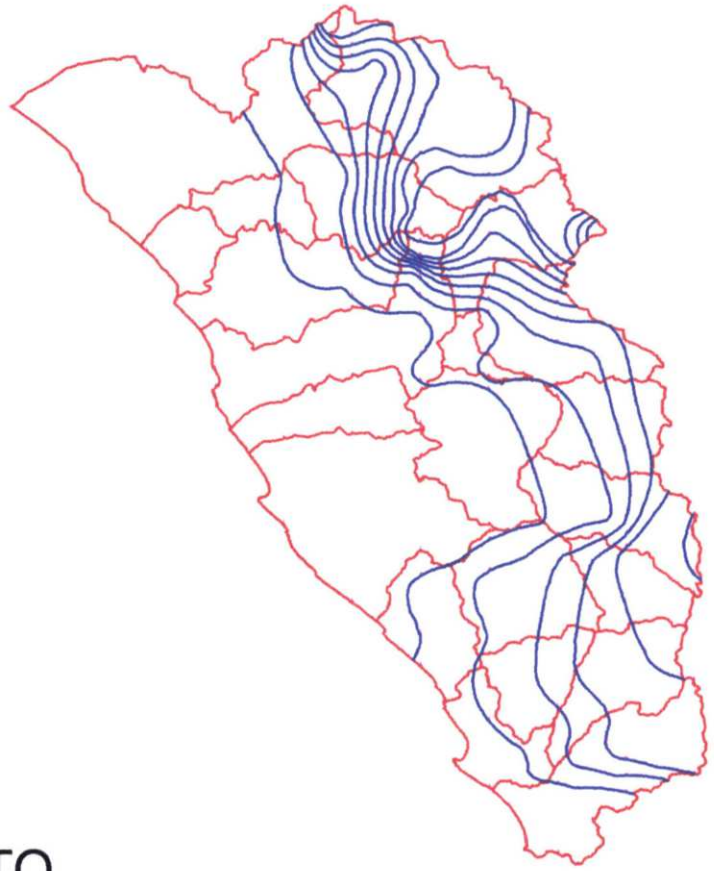

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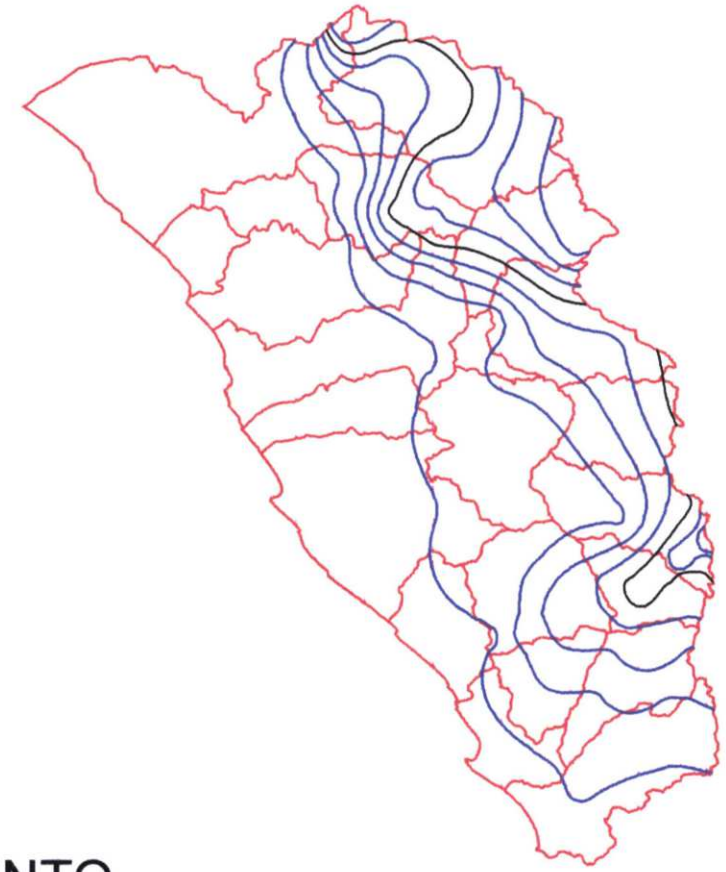

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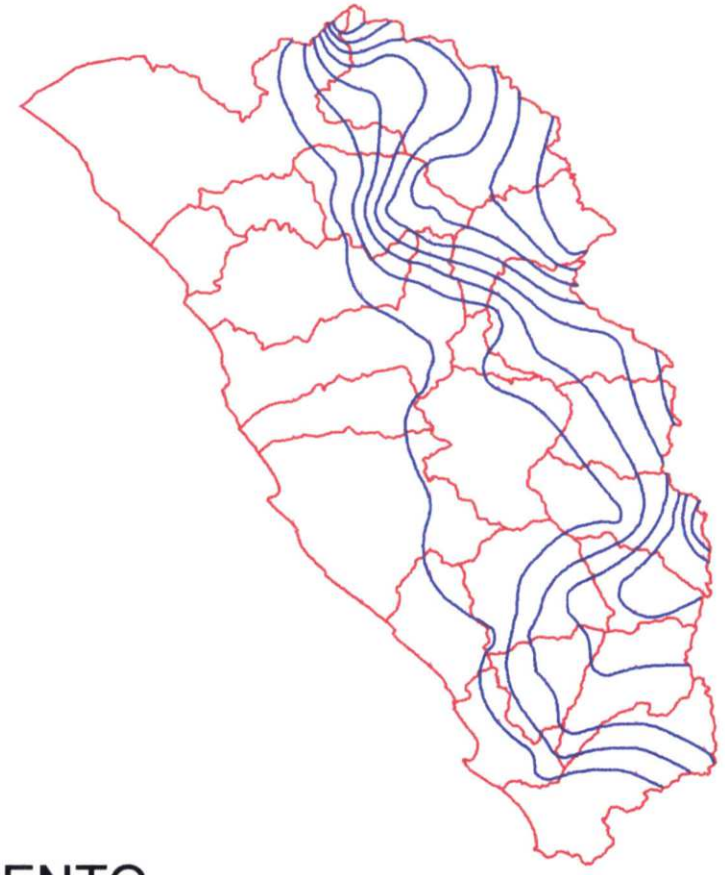

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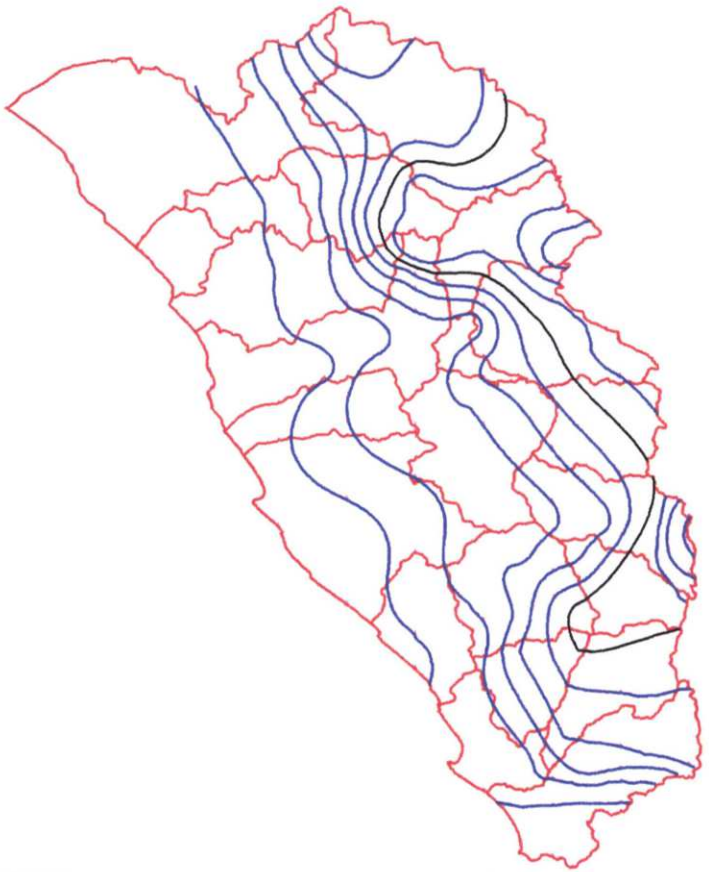

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