

National Water Reserves Program



WATER RESOURCES CHALLENGES

Priorities

Access to health and basic services

1

Food security

2

Water security

3



circumstantial

1

Effects of natural phenomena

2

Energy generation

3

Social and political aspects/ Regulatory framework

Global



1

Economic globalization

2

Population growth

3

Technological change

Medium and Long Term

Climate change

1

Reduction of water resources

2

Environment deterioration

3



NATIONAL WATER RESERVES PROGRAM

NATIONAL WATER PLAN



Domestic and public use

1

Power generation for public services

2

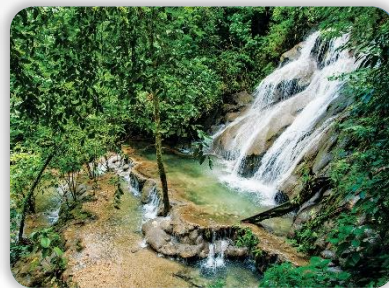
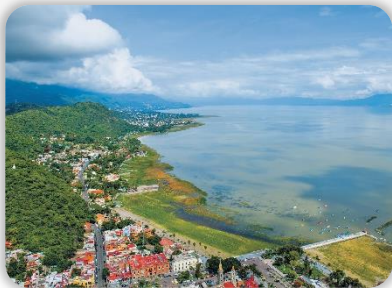
Secure the minimum flows for ecological protection

3

Aim

Securing Water for the conservation of ecosystems

Water for future generations



Analysis of potential reserves



- 1 Lineal assessment
- 2 Decision tree method
- 3 Weighted evaluation

**Identification of 189
potential basins**

84%

from the 37
hydrological
regions

116

Medium

54

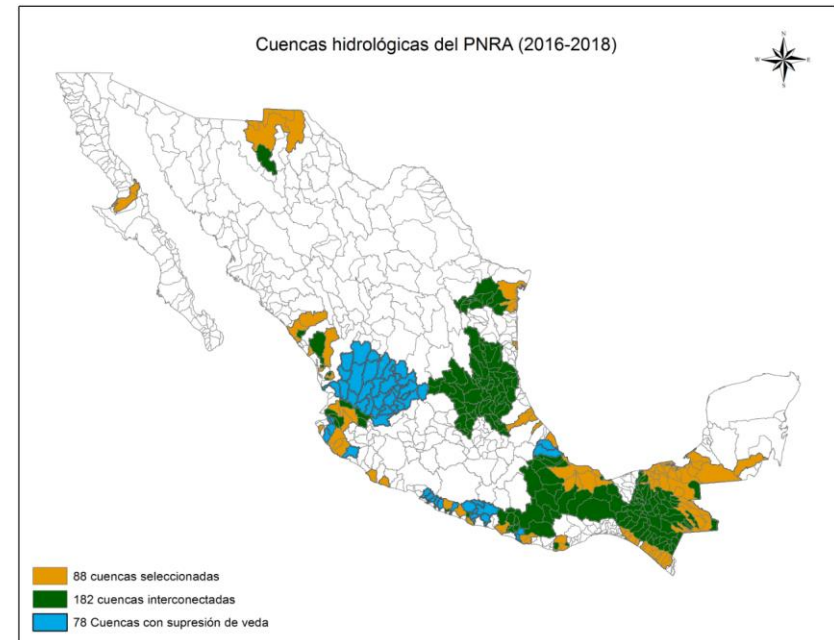
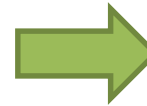
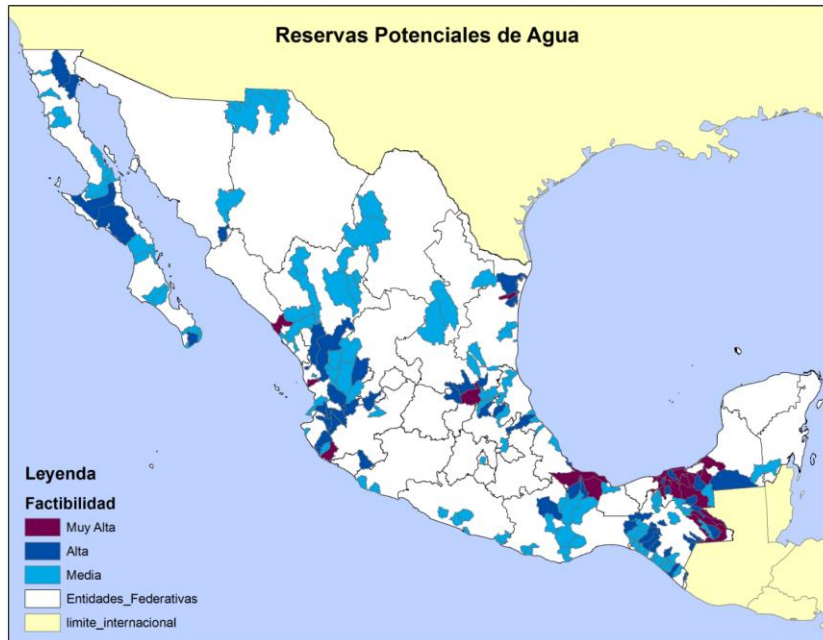
High

19

Very High

Analysis of potential reserves

189 potential basins



In 2016, the water stress of the 189 potential basins was updated

189
Re-evaluated basins

88
Basins feasible to be water reserves

182
Inter-connected basins

78
Basins' removal of banned region

Altogether

348
basins

ARE INCLUDED IN THE
NATIONAL WATER RESERVES
PROGRAM

Goals of water reserves



189 basins

1

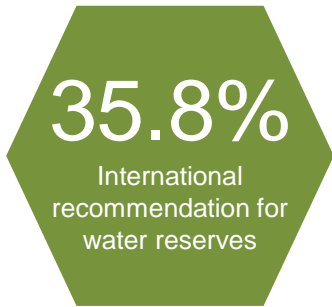
31 hydrological regions

2



International recommendations

For the geographic conditions of México



water reserves' Procedure: Based on technical and legal Grounds



**strong, thorough and
benefic action for
ensuring water
security**

Update of water
availability status

Technical justification
studies

Water reserves
decrees

Environmental impact
assessment
regulatory manifest

Submission of the
projects to the
COFEMER

Signing of the
presidential decree

Presentation to
the Water User
boards

Publication on
the Official
Gazette of the
Federation



SEMARNAT
SECRETARÍA DE MEDIO AMBIENTE
Y RECURSOS NATURALES



Publication on
the website

Water reserves decreed

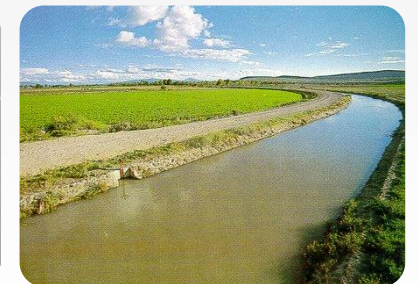
September 15th, 2014; September 23th, 2016; march 23th, 2018



1 1st hydrological region
"Río San Pedro"
[15.09.14]

2 "Río Fuerte"
[23.09.16]

3 Hydrological region of
Coatzacoalcos
[23.03.18]



10 new decrees signed

June 5th, 2018

**Historical happening
for the Mexican well-
being**



**WATER
RESERVES
ENSURE:**

Water use for 18
million unborn
Mexicans

Environmental
conservation

**274 Basins
with water reserves
In 20 states**

10 water reserves decrees

june 5th, 2018



9 hydrological regions

1

Reserve the 80%
of available water

2

New user:
The water reserve

3

274 basins

4

187,713 hm³
Mean annual
availability

151,199 hm³
Reserved for
Environmental
use

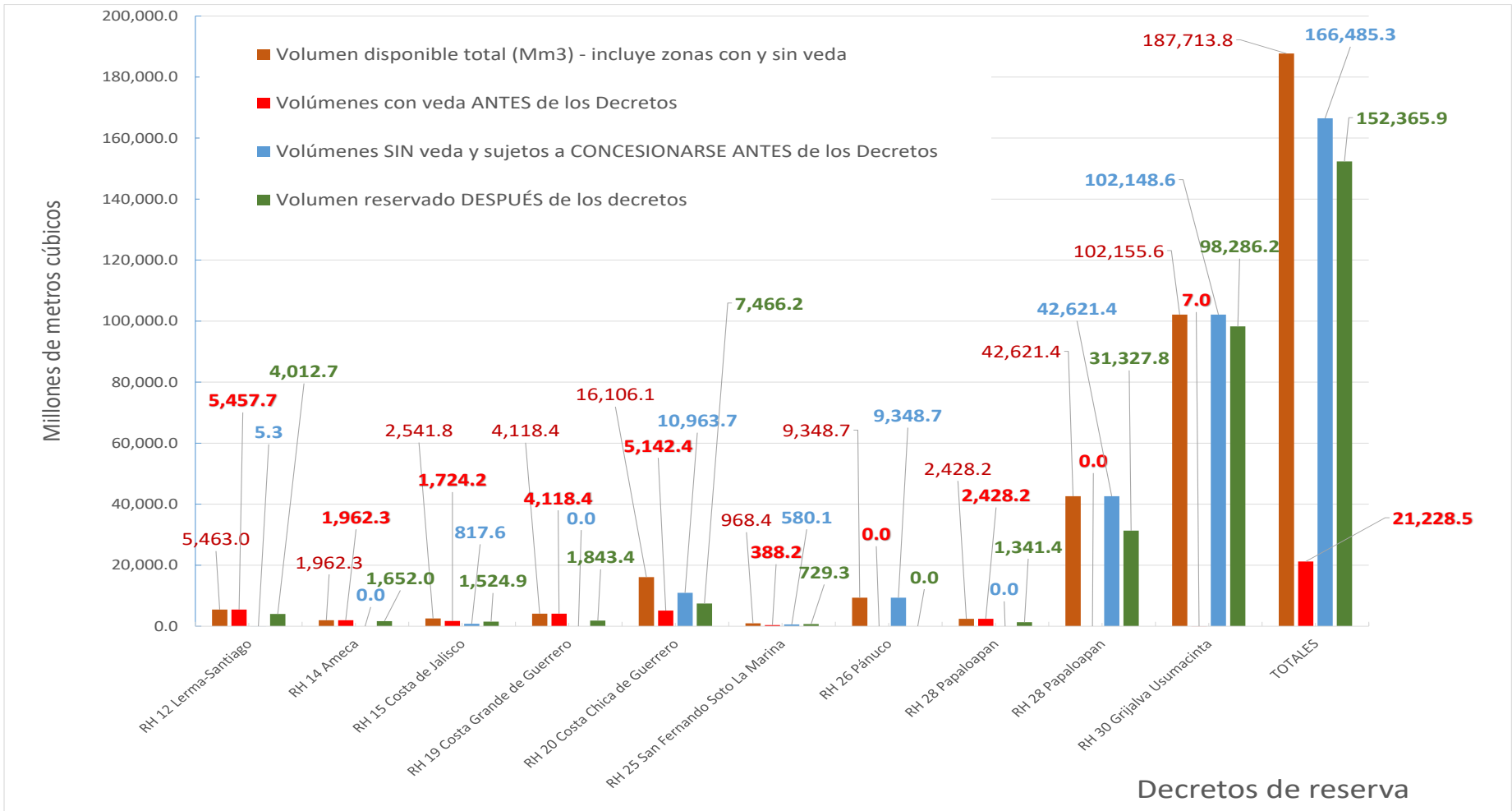
1,166 hm³
Reserved for
public and
domestic use



10 water reserves decrees

Before and After

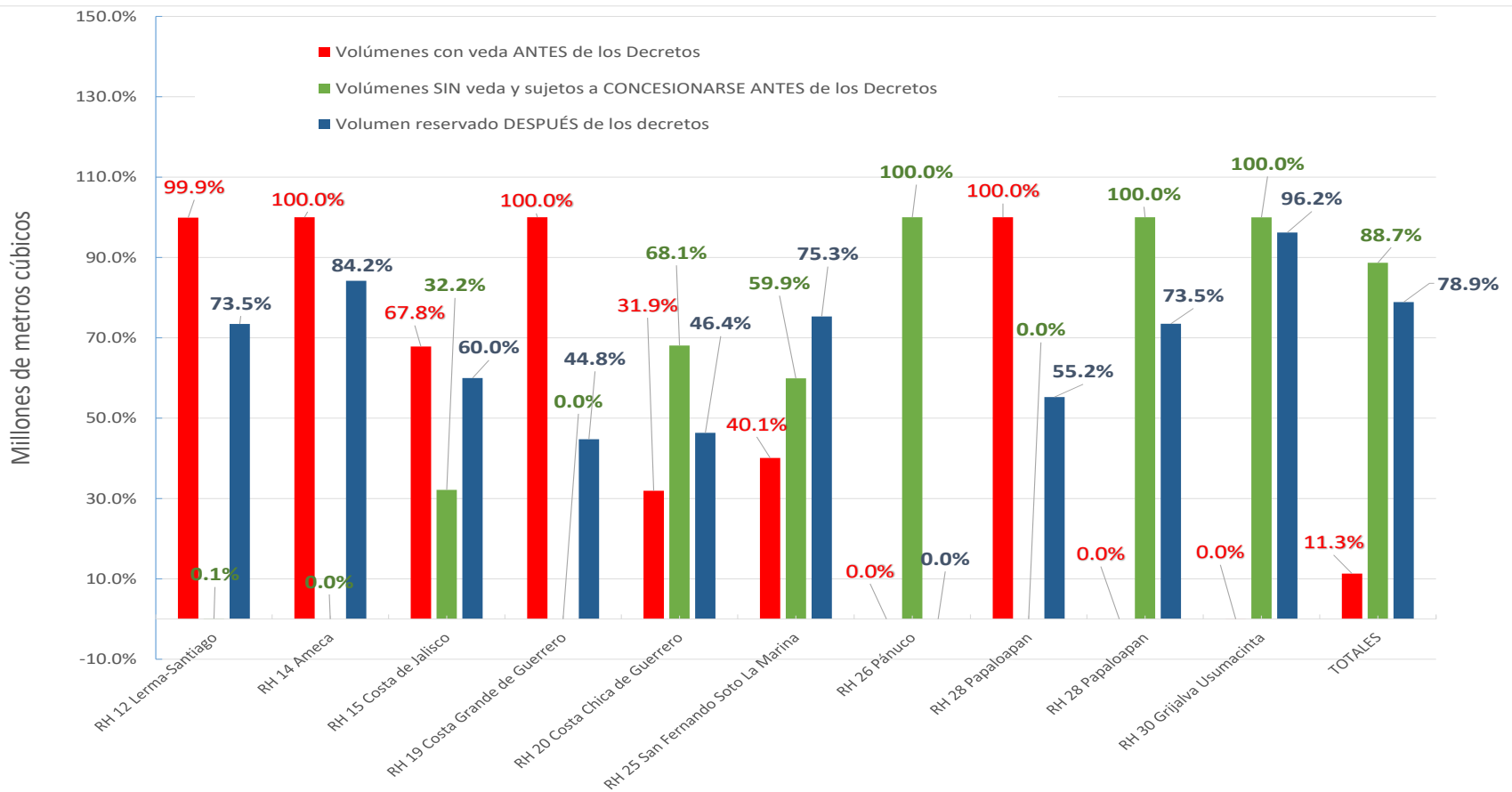
Available volume in million of cubic meters



10 water reserves decrees

Before and After

PERCENTAGE OF AVAILABLE VOLUME



Decretos de reserva

The biggest reserve in latinamerica

Hydrological region Grijalva-Usumacinta

81 of 83

Basins have a reserved
a volume of

**98 thousand
millions of m³**

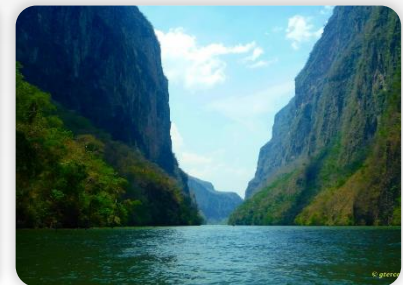


1

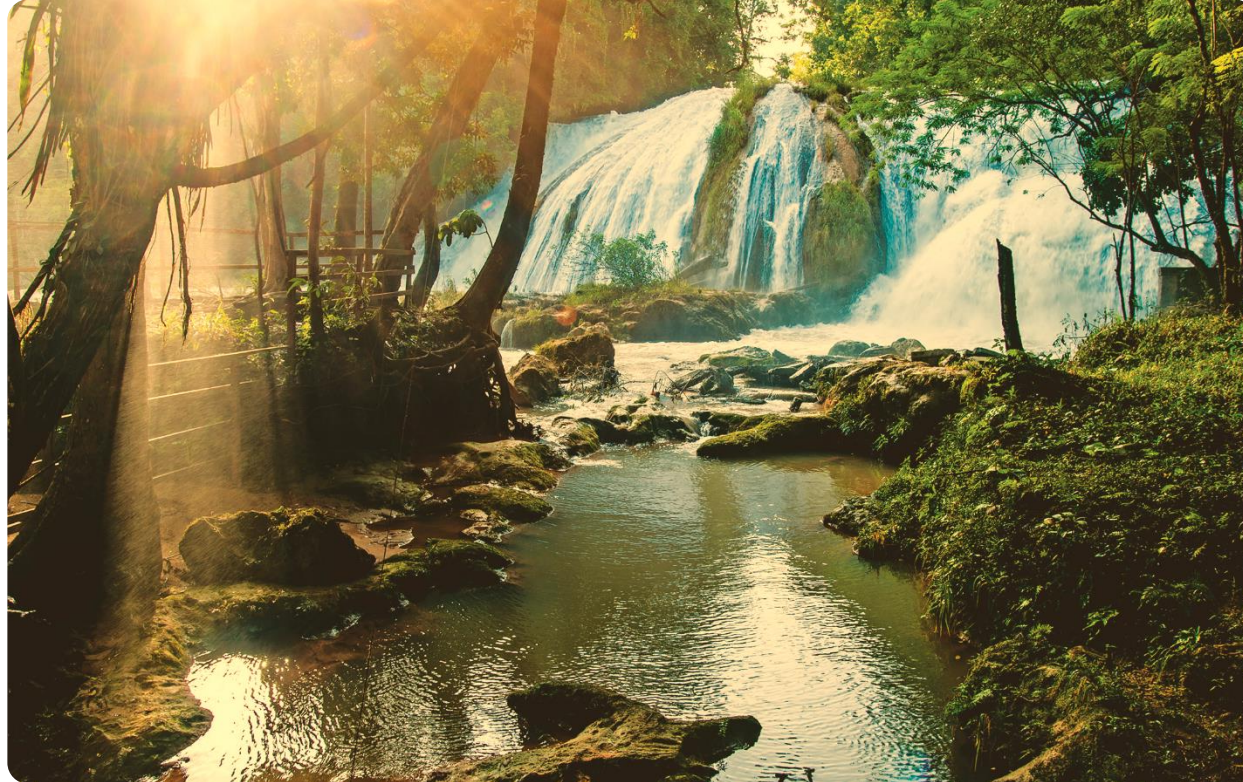
Mean annual runoff:
104,196 hm³

2

95% Reserved



13 water reserves decrees



295
basins

99%
Of water for the environment

1%
For public use

171,279
Mm³
Total volume

400%
More water reserves
than previous
administrations

Supply for 18
millions of unborn
Mexicans during the
next 50 years



Water reserves program

1 Current water allocations unaffected (water rights)

2 The volume of water will not be granted to the best bidder

3 The water reserves will not be granted for allocation

4 Water is not being privatized

5 The most important and transcendent public policy in terms of water



CONAGUA
COMISIÓN NACIONAL DEL AGUA