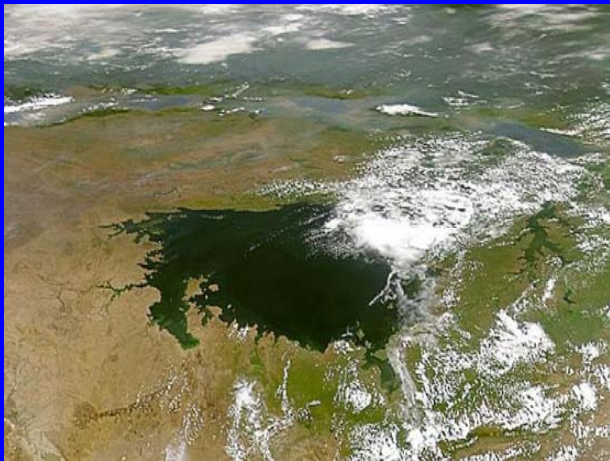


The UN-HABITAT Lake Victoria Water and Sanitation Initiative



‘Adequate’ vs. ‘Improved’ Water Supplies

Case study:

Five secondary urban centres in Western Kenya

Total Population of Selected Secondary Urban Centres, Kenya, 2006

Town	Total Population
Migori Municipality	56,700
Kisii Municipality	88,400
Homa Bay Municipality	59,528
Siaya Municipality	49,343
Bondo Township	36,229

Estimated from the Kenya Population and Housing Census, 1999

Access to improved water supplies in 2006

Percent

100

80

60

40

20

0

**JMP
definition**

70

71

76

68

52

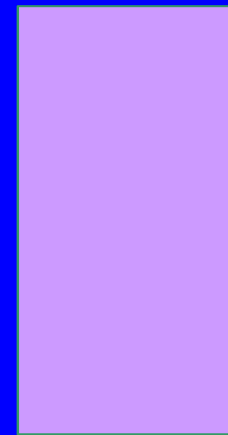
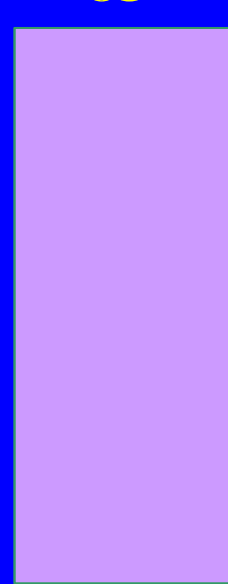
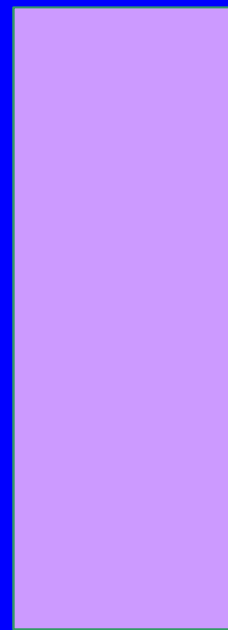
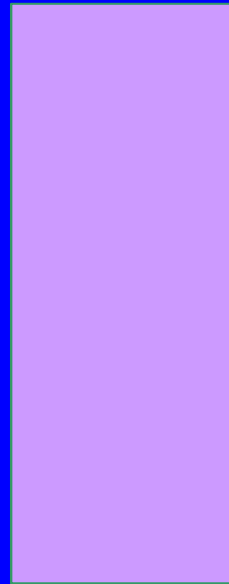
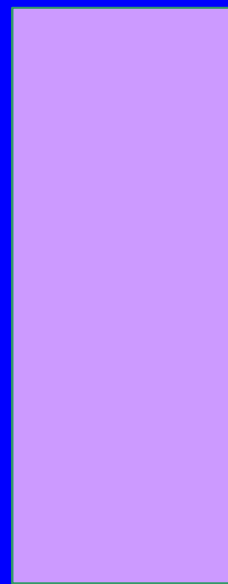
Migori

Kisii

Homa Bay

Siaya

Bondo



JMP: 'improved' and 'not improved' water supplies

Improved:

- household connection
- public standpipe
- borehole
- protected dug well
- protected spring
- rainwater collection

Not improved:

- surface water
- unprotected well
- unprotected spring
- vendor-provided water
- bottled water
- tanker-truck water

No consideration of quality, quantity, cost or burden of collection

But for 'adequate' water supplies

- **Quantity:** not less than 20 litres per person per day
- **Cost:** not more than 10% of household income
- **Burden of collection:** not more than 1 hour per day

Access to 'improved water'

Percent

100

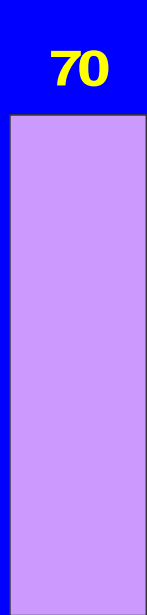
80

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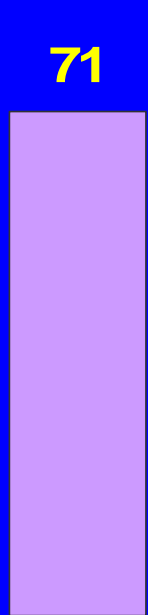
20

0



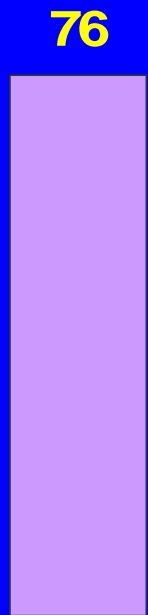
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Migori



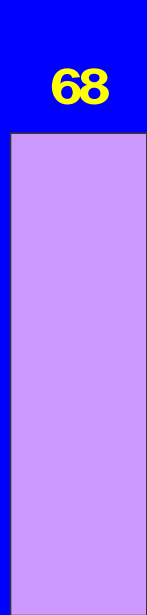
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Kisii



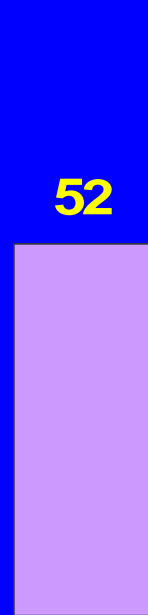
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Homa Bay



68

Siaya

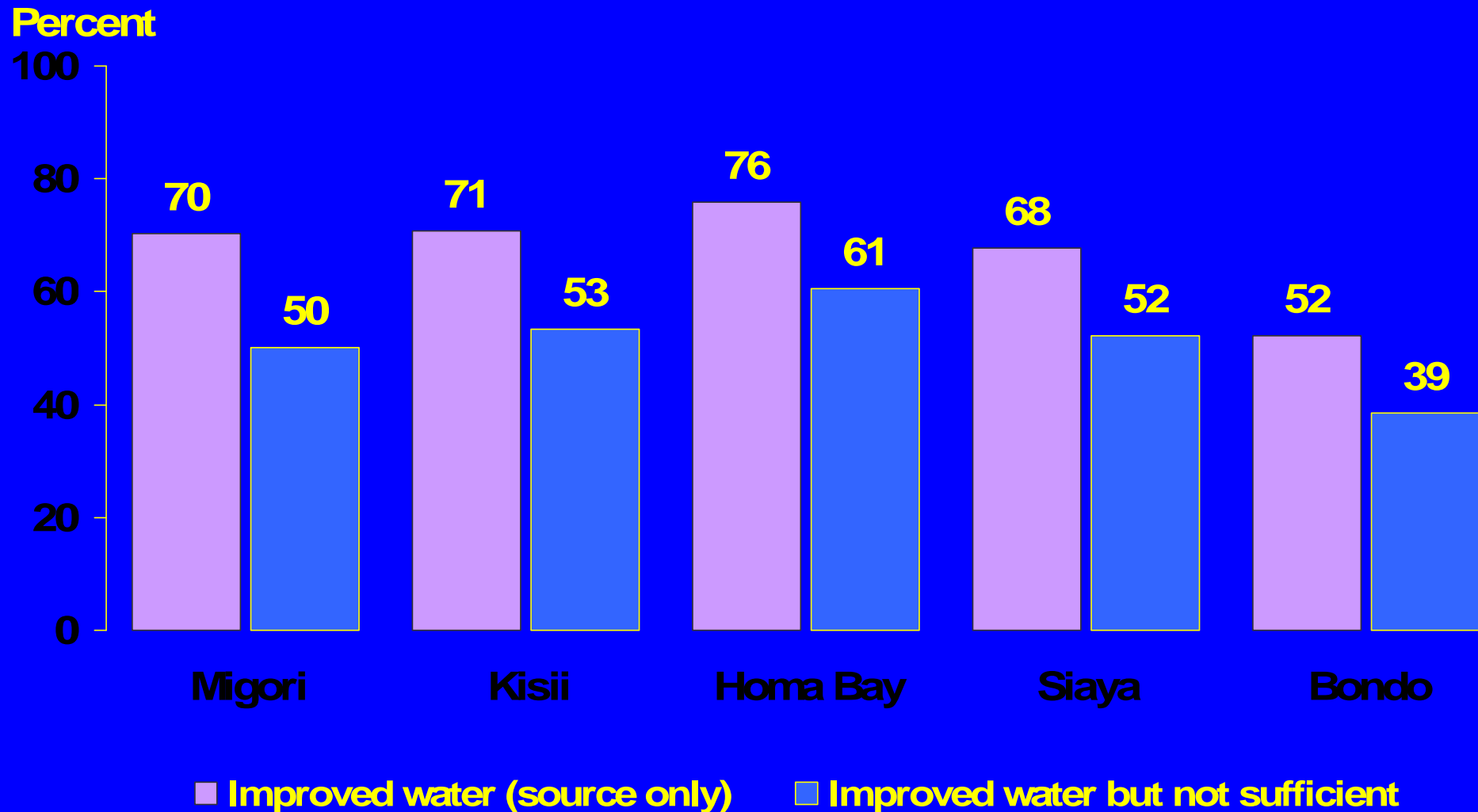


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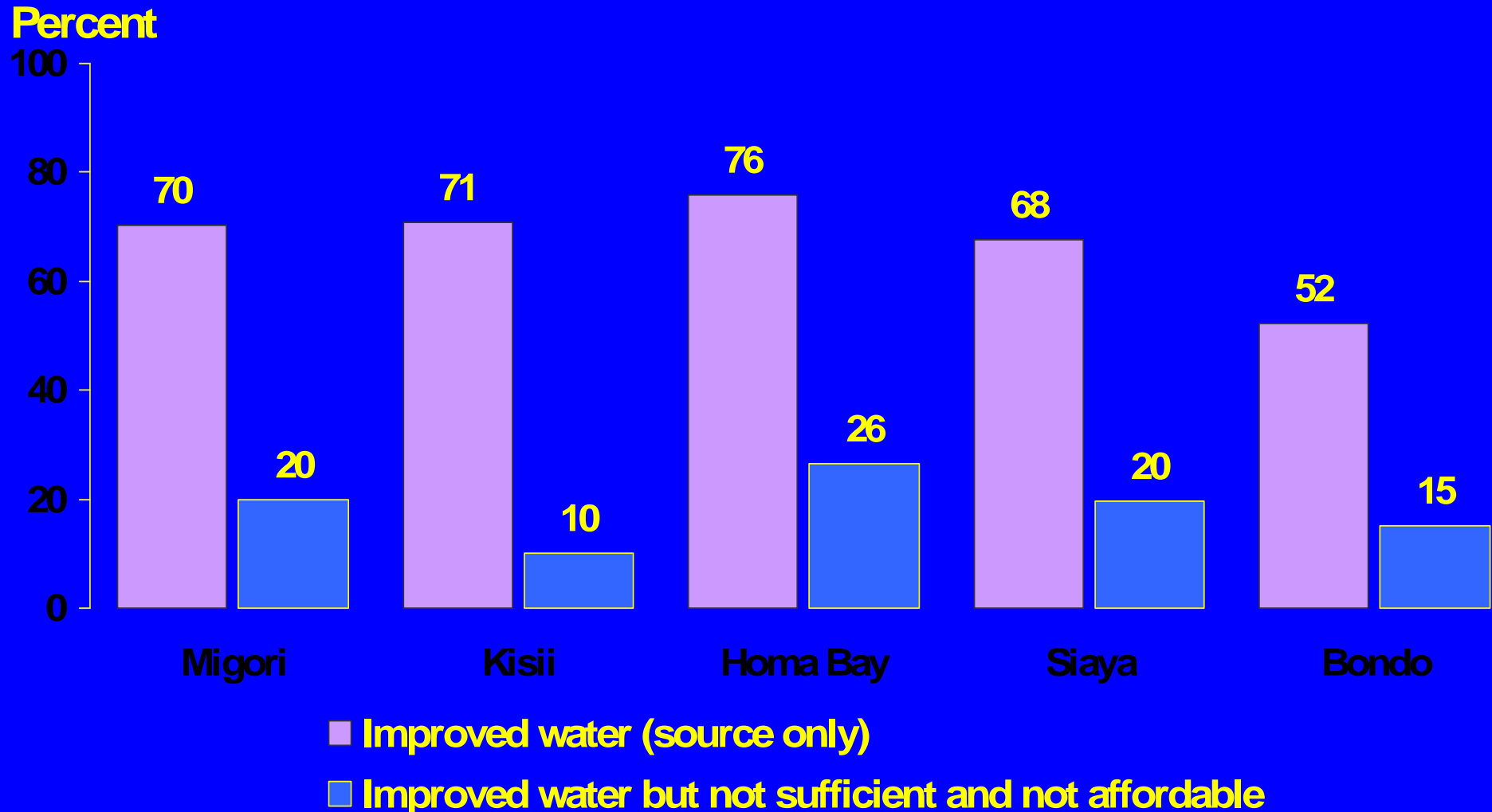
Bondo

■ Improved water (source only)

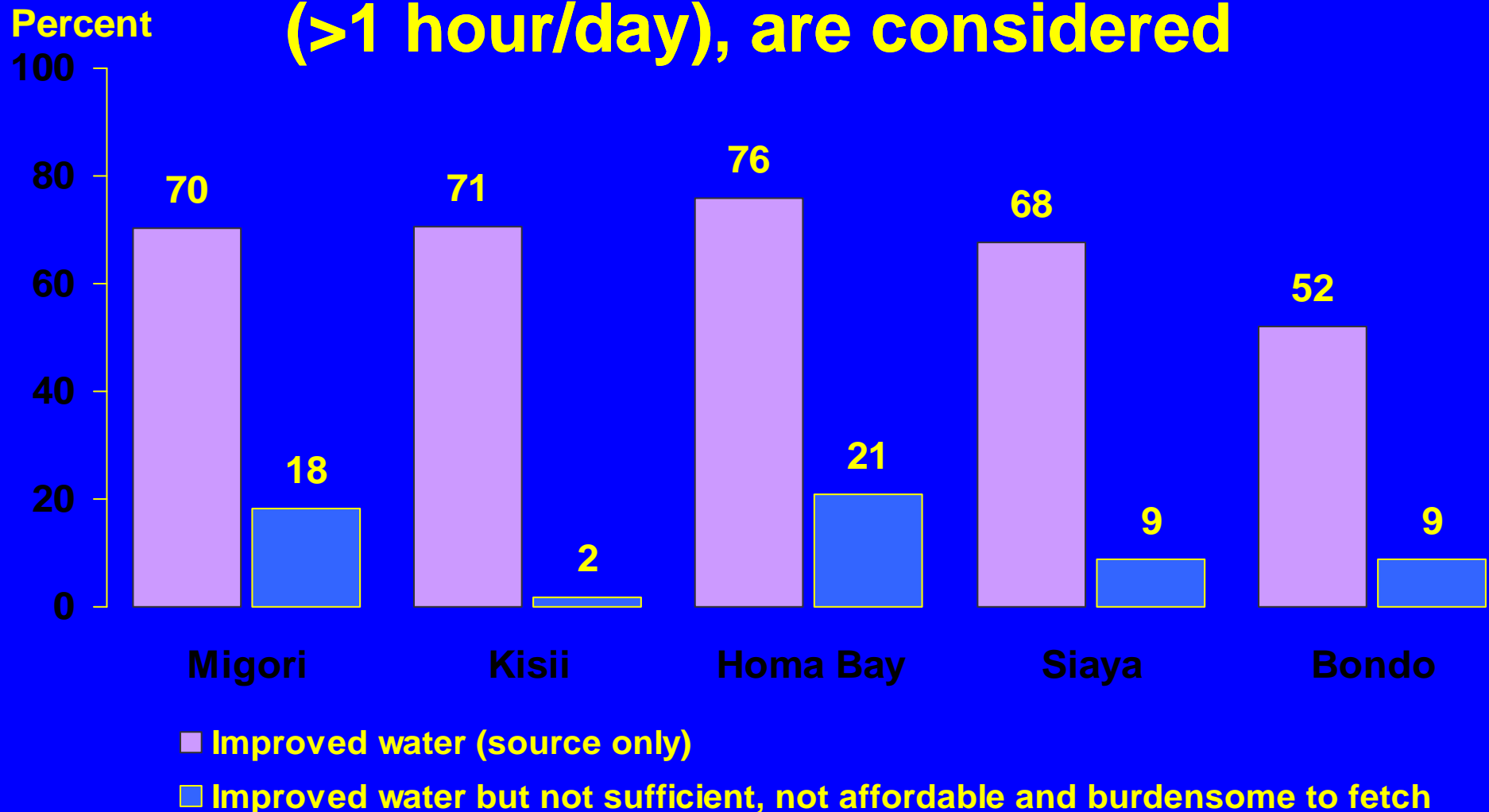
Access to 'improved water' decreases when quantity (<20 lcd) is considered



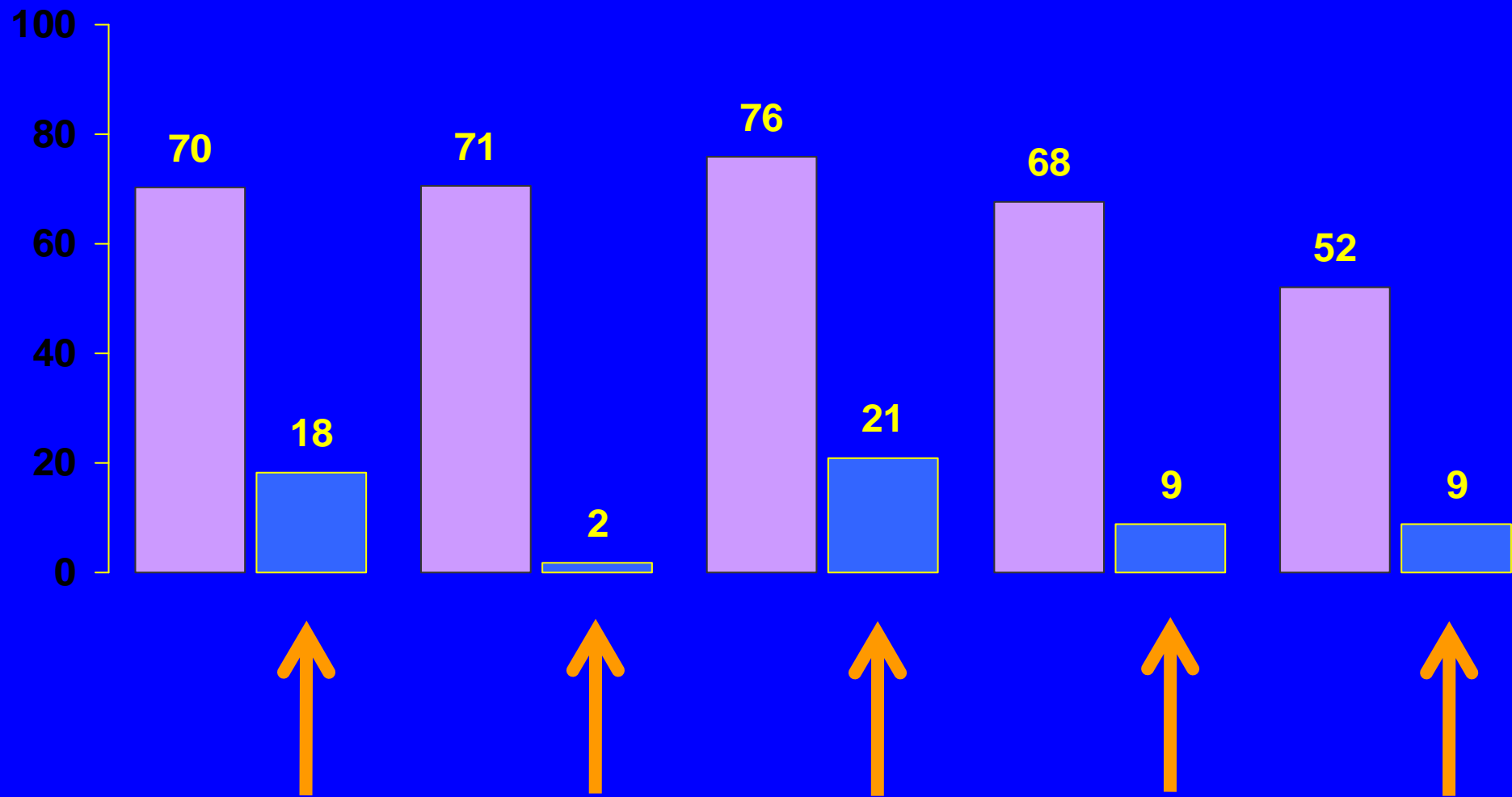
Access to 'improved' water decreases dramatically when quantity (<20 lcd) and cost (>10% of income) are considered



Access to 'improved' water decreases much further when quantity (<20 lcd), cost (>10% of income), and the burden of fetching water (>1 hour/day), are considered



Percent



Access to 'adequate' water

For 'adequate' water supplies

- **Quantity:** not less than **20** litres per person per day
or 30?
- **Cost:** not more than **10%** of household income
or 5%?
- **Burden of collection:** not more than **1 hour** per day
or 30 minutes?

QUALITY?

CONCLUSION

'Improved'
is a long way from
'Adequate'