



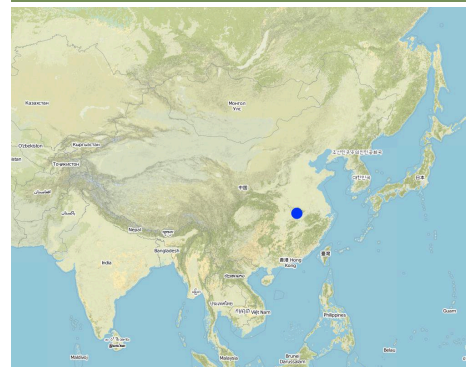
Small Watershed Comprehensive Development ()

Integrated administration/control of small basin

Controlling a small watershed comprehensively with structural, vegetative, management, and agronomic measures based on harvesting area of ground water and underground water, to improve the production and conservation of land.

Over several decades of SWC practices, a successful experience of SWC has been concluded, that is Small Watershed Comprehensive Development. The main aim is regarded a small watershed as a control unit for soil and water conservation. The approach is to control soil and water loss comprehensively by structural measure combining vegetative, agronomic and management measures. Specifically:

1. Agronomic method/measure: contour cultivation, area closure, and green manure
2. Vegetative method/measure: plant trees, grass, grass strip, windbreaks and reforestation
3. Structural method/measures: terrace, ands, small reservoir, and dams
4. Land use management/measure: grazing, area closure, and land use change



: Hubei,

:

• 115.401, 30.791

: (39.8 km²)

?:

() : 50

☐ (> 50)
☒ /




‘ ’ /



), rice : - (

: 3

/





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Tree types: Pinus species (pine)

✓

✓

/



- Wt:

- Cn:





(

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SLM

(

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SLM

- A7:

- V2:

2

- S1:

, S5:

/

, S7:

/

- M1:

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Much money is needed to build terraces if hill slope is steeper.

(

) 1 USD =

1.70

1. plant fence beside terrace (/ : 1965)

2. terrace (/ : 1968)

3. small reservior (/ : 1959)

1. conserving soil and planting crops (/ : seeding season / annual)

2. improve fertilizer (/ : winter, spring /)

3. increase fertilizer (/ : seeding season /)

4. Cutting fence, planting (/ : fall /annual)

5. terrace (/ : leisure/annual)

6. small reservior (/ : winter/annual)

✓

< 250

251-500

501-750

751-1,000

✓ 1,001-1,500

1,501-2,000

2,001-3,000

3,001-4,000

> 4,000

(0-2%)

(3-5%)

(6-10%)

(11-15%)

✓

✓

0-100

101-500

501-1,000

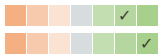
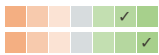
1,001-1,500

Wocat SLM Technologies

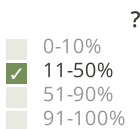
Small Watershed Comprehensive Development

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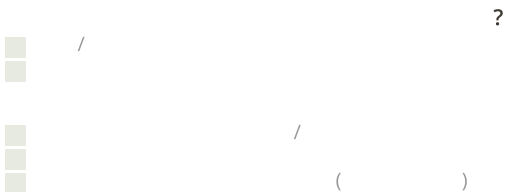
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138 Households /



: / / :
: / / :



Editors
Jun XIA David Streiff
Alexandra Gavilano
: 13 2010 : 14 2019

Jun XIA - SLM

https://qcat.wocat.net/km/wocat/technologies/view/technologies_973/
SLM
Approaches: Small Watershed Comprehensive Control https://qcat.wocat.net/km/wocat/approaches/view/approaches_2398/

- Chinese Academy of Science (CAS) -
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