

































$$Y = \frac{\sum_{i=1}^{n'} x_i}{\sum_{i=1}^{n'} y_i}$$
 Agricultural land area at this time
$$\sum_{i=1}^{n} y_i$$
 at this time
$$\sum_{i=1}^{n} y_i$$

$$y = \frac{\sum_{i=1}^{n} y_i}{n}$$

Y = Estimated agricultural land area

n = Number of the 1st sampling

n' = Number of the 2nd sampling

 x_i = Agriculture land area on field survey in "i" number sample of 2nd sampling

 y_i = Agricultural land area on the monitor in "i" number sample of 1st sampling

y = Total Agricultural land area by estimation from the first sampling

N' = Number of area mesh including Agricultural land

ALIS Program

The Area Estimation Formula by using ALIS

Each crop planted area

$$Y' = \frac{\sum_{i=1}^{n'} x_i}{n'} N'$$

Y' = Estimated planted area of each crop

n' = Number of the 2nd sampling

xi = Planted area of each crop on field survey

in "i" number sample of the 2nd sampling

N'= Number of area mesh including Agricultural land

Initial setting: Rice, Soybean, Maize, Sugarcane, and Cassava + 2 crops

ALIS Program











