**Table S1** Yield and income of summer catch leafy vegetables.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Treatments | Average economic yield  per plot/kg | Equivalent economic yield per hectare/kg | Price /(￥・kg-1) | Profitability/% | Net income per hectare/￥ | Net income per hectare/$ |
| CK | 0.00 | 0.00 | - | - | 0 | 0 |
| WS | 1.71 | 4071.08 | 3.00 | 45% | 5496 | 800 |
| EA | 3.23 | 7691.15 | 2.00 | 50% | 7691 | 1119 |
| NZS | 3.12 | 7439.04 | 10.00 | 20% | 13673 | 1990 |
| I-CM | 2.89 | 6877.25 | 7.00 | 55% | 26477 | 3853 |
| I-MS | 12.76 | 30394.95 | 4.00 | 55% | 66869 | 9730 |
| I-NZS | 11.86 | 28261.74 | 8.00 | 55% | 121100 | 17622 |

Note: **CK** bare cultivated land as a control, **WS** water spinach, **EA** edible amaranth, **NZS** newly planted New Zealand spinach, **I-CM** Chinese mallow, **I-MS** Malabar spinach,

**I-NZS** the previous New Zealand spinach.

The area of each experimental plot was 4.2m2(3.5 m × 1.2 m).

The selling price of leafy vegetables was determined concerning market conditions, and the actual selling price of leafy vegetables fluctuated according to the sales situation.

Profitability was related to the cost of production, such as labor costs, seed prices, direct seeding or nursery costs, etc.

The exchange rate between the US dollar and the Chinese yuan was 6.87212.