**Table S4 Area of land use types in the upper reaches of the Aral Sea Basin.**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Lucc** | **Cropland** | **Forestland** | **Grassland** | **Wetland** | **Urban** | **Bare land** | **Water bodies** | **Total** |
|  | 1995 | 822.13  | 172.02  | 2597.43  | 0.70  | 0.53  | 543.29  | 169.43  | 4305.53  |
| Area | 2005 | 812.55  | 170.21  | 2616.42  | 0.70  | 1.02  | 535.10  | 169.50  | 4305.52  |
| （\*104ha） | 2015 | 823.65  | 160.75  | 2614.49  | 0.70  | 2.05  | 534.42  | 169.46  | 4305.53  |
|  | 2025 | 807.12  | 171.25  | 2622.97  | 0.70  | 3.81  | 548.76  | 150.92  | 4305.53  |
|  | 1995-2005  | -1.16  | -1.05  | 0.73  | -0.01  | 94.27  | -1.51  | 0.04  | —— |
| Changes | 2005-2015 | 1.37  | -5.56  | -0.07  | 0.00  | 99.88  | -0.13  | -0.02  | —— |
| % | 2015-2025 | -2.01  | 6.53  | 0.32  | -1.23  | 86.04  | 2.68  | -10.94  | —— |
|  | 1995-2025 | -1.82  | -0.45  | 0.98  | -1.24  | 622.39  | 1.01  | -10.93  | —— |

**Table S4 Area of land use types in the middle reaches of the Aral Sea Basin.**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Lucc** | **Cropland** | **Forestland** | **Grassland** | **Wetland** | **Urban** | **Bare land** | **Water bodies** | **Total** |
|  | 1995 | 1784.65  | 6.89  | 2466.65  | 6.66  | 10.57  | 3912.95  | 83.13  | 8271.50  |
| Area | 2005 | 1814.98  | 7.71  | 2485.95  | 6.68  | 29.95  | 3840.83  | 85.42  | 8271.51  |
| （\*104ha） | 2015 | 1797.88  | 7.61  | 2501.06  | 6.64  | 53.03  | 3818.96  | 86.32  | 8271.51  |
|  | 2025 | 1803.77  | 8.58  | 2509.61  | 6.63  | 67.34  | 3791.37  | 84.20  | 8271.50  |
|  | 1995-2005  | 1.70  | 11.94  | 0.78  | 0.26  | 183.36  | -1.84  | 2.75  | —— |
| Changes | 2005-2015 | -0.94  | -1.30  | 0.61  | -0.50  | 77.04  | -0.57  | 1.06  | —— |
| % | 2015-2025 | 0.33  | 12.75  | 0.34  | -0.22  | 26.97  | -0.72  | -2.46  | —— |
|  | 1995-2025 | 1.07  | 24.57  | 1.74  | -0.47  | 536.99  | -3.11  | 1.29  | —— |

**Table S4 Area of land use types in the lower reaches of the Aral Sea Basin.**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Lucc** | **Cropland** | **Forestland** | **Grassland** | **Wetland** | **Urban** | **Bare land** | **Water bodies** | **Total** |
|  | 1995 | 361.83  | 3.39  | 580.20  | 0.20  | 0.98  | 3220.57  | 387.99  | 4555.17  |
| Area | 2005 | 363.55  | 1.64  | 587.87  | 0.21  | 2.38  | 3382.14  | 217.37  | 4555.17 |
| （\*104ha） | 2015 | 367.98  | 1.58  | 591.20  | 0.21  | 4.44  | 3464.31  | 125.46  | 4555.17 |
|  | 2025 | 369.96  | 2.38  | 608.58  | 0.20  | 6.92  | 3417.24  | 149.88  | 4555.16 |
|  | 1995-2005  | 0.47  | -51.58  | 1.32  | 4.04  | 144.25  | 5.02  | -43.98  | —— |
| Changes | 2005-2015 | 1.22  | -3.99  | 0.57  | 0.00  | 86.06  | 2.43  | -42.28  | —— |
| % | 2015-2025 | 0.54  | 51.04  | 2.94  | -3.90  | 56.01  | -1.36  | 19.46  | —— |
|  | 1995-2025 | 2.25  | -29.79  | 4.89  | -0.02  | 608.98  | 6.11  | -61.37  | —— |