Tuban Basin model A60\_v8

Water balance summary

A diagram of a tree

AI-generated content may be incorrect.

Average monthly basin values

| **Mon** | **Rain**  **(MM)** | **SURF Q (MM)** | **LAT Q (MM)** | **Water Yield**  **(MM)** | **ET (MM)** | **Sed. Yield**  **(T/HA)** | **PET (MM)** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | 8.88 | 0.18 | 0.32 | 0.51 | 10.44 | 0.07 | 97.86 |
| 2 | 16.51 | 0.30 | 0.49 | 0.69 | 13.82 | 0.04 | 107.21 |
| 3 | 35.94 | 1.76 | 1.42 | 2.70 | 31.55 | 0.60 | 144.38 |
| 4 | 48.88 | 1.82 | 2.09 | 3.40 | 42.78 | 0.47 | 152.98 |
| 5 | 34.33 | 0.70 | 1.53 | 2.16 | 36.14 | 0.07 | 139.18 |
| 6 | 58.44 | 2.70 | 2.08 | 4.03 | 37.90 | 0.33 | 130.20 |
| 7 | 98.04 | 7.30 | 5.23 | 11.01 | 53.60 | 0.73 | 146.05 |
| 8 | 69.70 | 4.61 | 5.39 | 12.44 | 47.50 | 0.36 | 129.83 |
| 9 | 23.85 | 1.32 | 1.97 | 6.93 | 27.32 | 0.18 | 113.80 |
| 10 | 9.33 | 0.20 | 0.65 | 2.25 | 17.53 | 0.02 | 128.24 |
| 11 | 6.76 | 0.04 | 0.27 | 0.68 | 12.36 | 0.00 | 115.50 |
| 12 | 8.85 | 0.11 | 0.30 | 0.53 | 10.84 | 0.01 | 100.09 |

Summary by Reported Land Use

This table contains a few important predictions summarized by land use. These should be reviewed carefully.

| **LULC** | **AREA ha** | **CN** | **AWC mm** | **USLE\_LS** | **IRR mm** | **PREC mm** | **SURQ mm** | **GWQ mm** | **ET mm** | **SED th** | **NO3 kgh** | **ORGN kgh** | **BIOM th** | **YLD th** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| AGRC | 78.27 | 75.00 | 188.81 | 7.46 | 65.25 | 763.26 | 10.41 | 123.93 | 632.27 | 1.75 | 1.64 | 1.83 | 5.74 | 2.29 |
| BARR | 3,145.13 | 90.86 | 143.19 | 2.98 | 0.00 | 151.39 | 25.04 | 3.25 | 122.18 | 1.77 | 0.26 | 0.13 | 0.00 | 0.00 |
| BERM | 54.60 | 82.59 | 137.85 | 1.66 | 0.00 | 499.41 | 76.62 | 7.71 | 405.63 | 0.27 | 3.86 | 1.27 | 14.70 | 9.82 |
| COTS | 623.74 | 75.00 | 144.33 | 1.42 | 109.43 | 661.14 | 11.96 | 33.01 | 648.17 | 1.09 | 0.30 | 1.32 | 3.34 | 1.45 |
| ORCD | 32.82 | 70.00 | 132.97 | 5.37 | 402.16 | 615.28 | 1.61 | 58.37 | 924.91 | 0.37 | 0.06 | 0.28 | 0.17 | 0.00 |
| RNGB | 1,288.57 | 79.70 | 48.14 | 10.05 | 0.00 | 584.16 | 19.31 | 62.46 | 423.51 | 10.14 | 0.02 | 2.54 | 0.48 | 0.32 |
| SGHY | 604.17 | 75.00 | 142.11 | 1.36 | 0.00 | 594.00 | 9.74 | 22.30 | 504.40 | 0.47 | 0.29 | 1.12 | 12.12 | 4.84 |
| SHRB | 2,475.07 | 79.39 | 116.77 | 6.16 | 0.00 | 556.14 | 21.27 | 41.53 | 442.94 | 1.68 | 0.04 | 1.27 | 1.79 | 0.79 |
| WATR | 0.90 | 92.00 | 60.53 | 0.07 | 0.00 | 658.44 | 0.00 | 0.00 | 1,606.96 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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Elevation report for the watershed 07 July 2025 20.57

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Statistics: All elevations reported in meters

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Minimum elevation: -2

Maximum elevation: 3207

Mean elevation: 1096.61

Standard deviation: 658.33

Landuse/Soil/Slope Distribution 07 July 2025 20.57

Number of subbasins: 93

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Area [ha]

Watershed 830440.77

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Area [ha] %Watershed

Landuse

DWHT 60427.37 7.28

RNGB 128868.68 15.52

AGRL 70209.72 8.45

SHRB 247559.43 29.81

BARR 314543.52 37.88

URBN 5460.69 0.66

WATR 89.63 0.01

ORCD 3281.71 0.40

Soil

I-Y-bc-3515 232122.05 27.95

IYbc3515s 106714.25 12.85

RockTub 191148.09 23.02

IYbc3515t 13352.18 1.61

Be73-2c-3673 85700.52 10.32

IYbc3515st 1679.88 0.20

Be732c3673t 538.72 0.06

Vp39-3b-3563 8879.20 1.07

Rc34-3b-4033 39110.91 4.71

WATER-1972 36.68 0.00

Vp393b3563t 34.47 0.00

Lk5-3ab-3534 13535.58 1.63

Je61-2a-3530 137529.40 16.56

Rc301ab3546t 58.84 0.01

Slope

0-8.0 289463.01 34.86

8.0-32.0 256907.54 30.94

32.0-9999 284070.22 34.21

Landuse/Soil/Slope and HRU Distribution 07 July 2025 21.11

Using percentage of subbasin as a measure of size

Target number of HRUs option Target 8586

Number of HRUs: 8586

Number of subbasins: 93

Numbers in parentheses are corresponding values before HRU creation

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Area [ha]

Watershed 830440.77

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Area [ha] %Watershed

Landuse

DWHT 60427.37 (60427.37) 7.28 (7.28)

RNGB 128868.68 (128868.68) 15.52 (15.52)

AGRL 70209.72 (70209.72) 8.45 (8.45)

SHRB 247559.43 (247559.43) 29.81 (29.81)

BARR 314543.52 (314543.52) 37.88 (37.88)

URBN 5460.69 (5460.69) 0.66 (0.66)

WATR 89.63 (89.63) 0.01 (0.01)

ORCD 3281.71 (3281.71) 0.40 (0.40)

Soil

I-Y-bc-3515 232122.05 (232122.05) 27.95 (27.95)

IYbc3515s 106714.25 (106714.25) 12.85 (12.85)

RockTub 191148.09 (191148.09) 23.02 (23.02)

IYbc3515t 13352.18 (13352.18) 1.61 (1.61)

Be73-2c-3673 85700.52 (85700.52) 10.32 (10.32)

IYbc3515st 1679.88 (1679.88) 0.20 (0.20)

Be732c3673t 538.72 (538.72) 0.06 (0.06)

Vp39-3b-3563 8879.20 (8879.20) 1.07 (1.07)

Rc34-3b-4033 39110.91 (39110.91) 4.71 (4.71)

WATER-1972 36.68 (36.68) 0.00 (0.00)

Vp393b3563t 34.47 (34.47) 0.00 (0.00)

Lk5-3ab-3534 13535.58 (13535.58) 1.63 (1.63)

Je61-2a-3530 137529.40 (137529.40) 16.56 (16.56)

Rc301ab3546t 58.84 (58.84) 0.01 (0.01)

Slope

0-8.0 289463.01 (289463.01) 34.86 (34.86)

8.0-32.0 256907.54 (256907.54) 30.94 (30.94)

32.0-9999 284070.22 (284070.22) 34.21 (34.21)