

# Soybean, Low Maint-Conventional-2022

NC STATE  
UNIVERSITY

ESTIMATED COSTS AND RETURNS PER ACRE, 2022  
35 BUSHEL ACTUAL YIELD.

|  | UNIT  | QUANTITY | PRICE OR<br>COST/UNIT | TOTAL<br>PER ACRE | YOUR<br>FARM |
|--|-------|----------|-----------------------|-------------------|--------------|
| <b>1. GROSS RECEIPTS</b>                             |       |          |                       |                   |              |
| SOYBEANS   | BU.   | 35.00    | \$12.51               | \$437.85          | _____        |
| TOTAL RECEIPTS:                                      |       |          |                       | <b>\$437.85</b>   | _____        |
| <b>2. VARIABLE COSTS</b>                             |       |          |                       |                   |              |
| SEED (CERTIFIED)<br>FERTILIZER                       | THOU. | 110.00   | \$0.40                | \$44.00           | _____        |
| PHOSPHATE (0-46-0)                                   | LBS   | 61       | \$0.26                | \$15.83           | _____        |
| POTASH (0-0-60)                                      | LBS   | 86       | \$0.43                | \$37.12           | _____        |
| LIME (PRORATED)                                      | TON   | 0.33     | \$54.50               | \$17.99           | _____        |
| HERBICIDES   | ACRE  | 1.00     | \$34.77               | \$34.77           | _____        |
| INSECTICIDES   | ACRE  | 1.00     | \$0.00                | \$0.00            | _____        |
| FUNGICIDES   | ACRE  | 1.00     | \$0.00                | \$0.00            | _____        |
| SURFACTANT   | ACRE  | 1.00     | \$1.74                | \$1.74            | _____        |
| AERIAL APPLICATION                                   | APPL  | 0.00     | \$0.00                | \$0.00            | _____        |
| HAULING  | BU.   | 35.00    | \$0.26                | \$9.10            | _____        |
| TRACTOR/MACHINERY                                    | ACRE  | 1.00     | \$31.89               | \$31.89           | _____        |
| LABOR  | HRS   | 2.12     | \$13.15               | \$27.88           | _____        |
| SCOUT  | ACRE  | 1.00     | \$12.00               | \$12.00           | _____        |
| INTEREST ON OP. CAP.                                 | DOL.  | \$91.67  | 2.0%                  | \$1.83            | _____        |
| TOTAL VARIABLE COSTS:                                |       |          |                       | <b>\$234.15</b>   | _____        |
| <b>3. INCOME ABOVE VARIABLE COSTS:</b>               |       |          |                       | <b>\$203.70</b>   | _____        |
| <b>4. FIXED COSTS</b>                                |       |          |                       |                   |              |
| TRACTOR/MACHINERY                                    | ACRE  | 1.00     | \$57.76               | \$57.76           | _____        |
| TOTAL FIXED COSTS:                                   |       |          |                       | <b>\$57.76</b>    | _____        |
| <b>5. OTHER COSTS</b>                                |       |          |                       |                   |              |
| GENERAL OVERHEAD                                     | DOL.  | \$234.15 | 7.0%                  | \$16.39           | _____        |
| TOTAL OTHER COSTS:                                   |       |          |                       | <b>\$16.39</b>    | _____        |
| <b>6. TOTAL COSTS:</b>                               |       |          |                       | <b>\$308.30</b>   | _____        |
| <b>7. NET RETURNS TO LAND, RISK, AND MANAGEMENT:</b> |       |          |                       | <b>\$129.55</b>   | _____        |

## BREAK-EVEN YIELD

|                |        | <u>BREAK-EVEN PRICE</u> |        |
|----------------|--------|-------------------------|--------|
| VARIABLE COSTS | 19 BU. | VARIABLE COSTS          | \$6.69 |
| TOTAL COSTS    | 25 BU. | TOTAL COSTS             | \$8.81 |

\* THIS BUDGET WAS DEVELOPED FOR PLANNING PURPOSES ONLY AND DOES NOT INCLUDE LAND RENT

\*EACH GROWER SHOULD CALCULATE THEIR COST BASED ON THEIR PRICE OF INPUTS AND LOCATION

\*FERTILIZER IS PRICED ON A PER POUND BASIS WITH NO ADJUSTMENTS FOR NUTRIENT COST PER LB

\*SOYBEAN PRICES ARE DECEMBER FUTURE PRICES IN FALL OF 2016 PLUS A POSITIVE BASIS FOR THE COSTAL PLAIN

| SOYBEANS - FULL SEASON-CONVENTIONAL-COASTAL PLAIN                |                                |            |             |               |                |             |
|--|--------------------------------|------------|-------------|---------------|----------------|-------------|
| PER ACRE MACHINERY AND LABOR REQUIREMENTS FOR 35 BUSHEL SOYBEANS |                                |            |             |               |                |             |
| MONTH  | OPERATION                      | TIMES OVER | LABOR HOURS | MACHINE HOURS | VARIABLE COSTS | FIXED COSTS |
| 5  | HEAVY DISK 14'                 | 1.00       | 0.17        | 0.15          | \$4.61         | \$6.34      |
| 6  | LIGHT DISKING W/ HERBICIDE 20' | 1.00       | 0.14        | 0.12          | \$3.77         | \$3.16      |
| 7  | PLANTER 12-ROW                 | 1.00       | 0.12        | 0.10          | \$5.42         | \$14.25     |
| 5 or 6   | HIBOY 90'                      | 2.00       | 0.07        | 0.06          | \$1.52         | \$13.54     |
| 5,6  | COMBINE W/ HEADER 24'          | 1.00       | 0.17        | 0.15          | \$9.40         | \$17.60     |
| 5,7  | GRAIN CART 1100                | 1.00       | 0.15        | 0.13          | \$7.17         | \$2.87      |
| PER ACRE TOTALS FOR SELECTED OPERATIONS                          |                                |            | 0.94        | 0.71          | \$31.89        | \$57.76     |
| UNALLOCATED LABOR(HRS./AC.)                                      |                                |            | 1.18        |               |                |             |

| INCOME ABOVE VARIABLE COSTS AT DIFFERING YIELDS AND PRICES |                |          |          |          |          |  |
|--|----------------|----------|----------|----------|----------|--|
| YIELD  | PRICE (\$/bu.) |          |          |          |          |  |
| BU.  | \$11.26        | \$11.88  | \$12.51  | \$13.14  | \$13.76  |  |
| 32   | \$126.95       | \$146.79 | \$166.95 | \$187.11 | \$206.95 |  |
| 33   | \$137.95       | \$158.41 | \$179.20 | \$199.99 | \$220.45 |  |
| 35   | \$159.95       | \$181.65 | \$203.70 | \$225.75 | \$247.45 |  |
| 39   | \$203.95       | \$228.13 | \$252.70 | \$277.27 | \$301.45 |  |
| 44   | \$258.95       | \$286.23 | \$313.95 | \$341.67 | \$368.95 |  |

\*NC STATE DOES NOT ENDORSE ANY COMPANY OR CHEMICAL NAMES ASSOCIATED TO ACTIVE INGREDIENTS  
 \*HERBICIDE COST ASSUME THE NEED FOR RESISTANCE MANAGEMENT, HAND WEEDING COST NOT INCLUDED  
 \*\*CHEMICALS LISTED ARE NOT A RECOMMENDATION FOR CHEMICAL USE BUT A REPRESENTATION OF COST ASSUMPTIONS ONLY

| PEST CONTROL ASSUMPTIONS FOR 35 BUSHEL SOYBEANS, CONVENTIONAL |      |          |                    |                |          |
|---|------|----------|--------------------|----------------|----------|
|   | UNIT | QUANTITY | PRICE OR COST/UNIT | TOTAL PER ACRE | MONTH    |
| **HERBICIDES:   |      |          |                    |                |          |
| flumioxazin (Valor)   | OZ   | 3.00     | \$5.86             | \$17.58        | MAY/JUNE |
| glufosinate   | OZ   | 32.00    | \$0.54             | \$17.19        | JUNE     |
| **INSECTICIDE   |      |          |                    |                |          |
| **FUNGICIDE   |      |          |                    |                |          |
| TOTAL:  |      |          |                    | \$34.77        |          |

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