

# **Statistical Study of Sesamum in the Punjab**

**CROP REPORTING SERVICE,  
AGRICULTURE DEPARTMENT,  
PUNJAB**

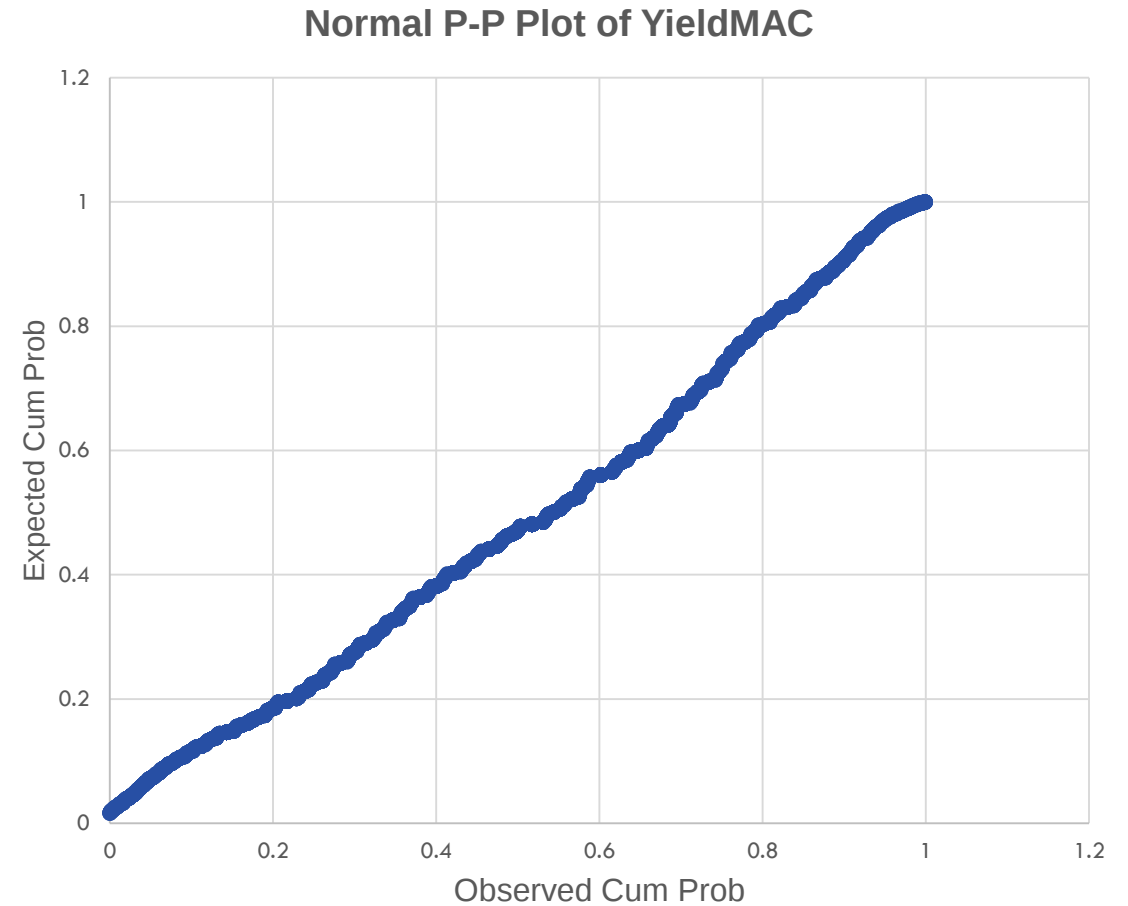
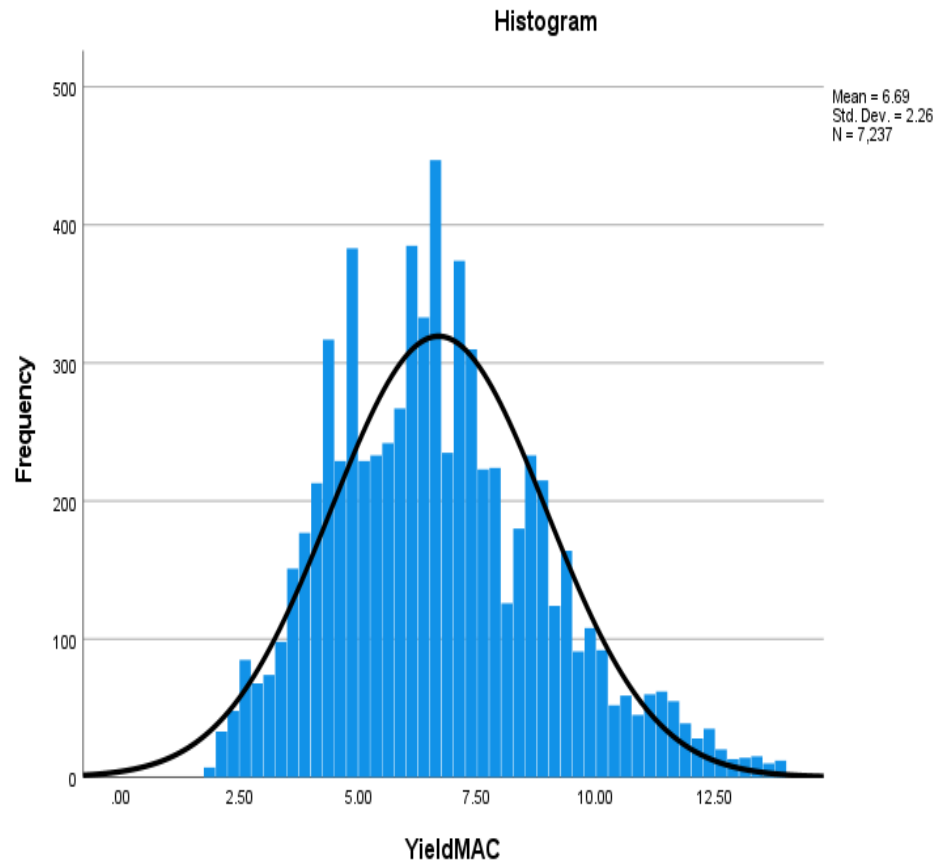
**Director General:  
Deputy Director(Stat):**

**Dr.Abdul Qayyum  
Muhammad Farooq**

# **Study Details**

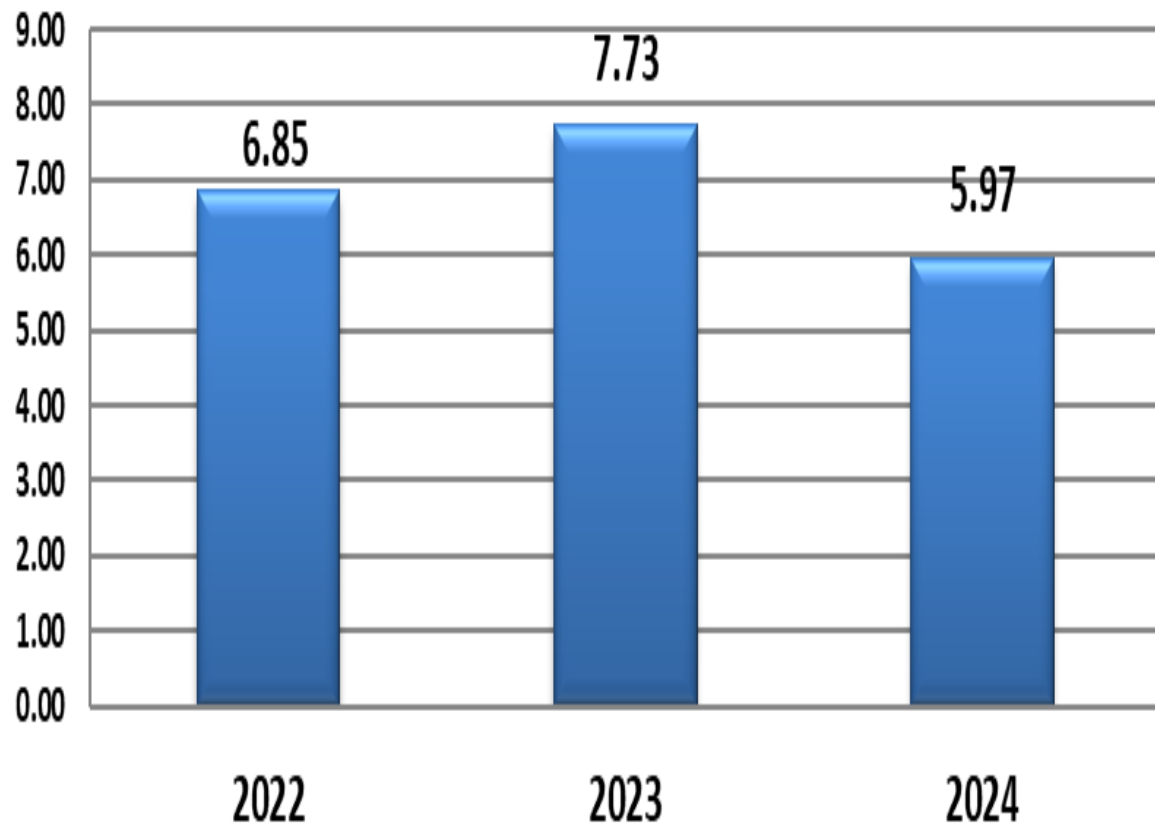
|                          |                                                    |
|--------------------------|----------------------------------------------------|
| • Crop                   | Sesamum                                            |
| • Season                 | Autumn                                             |
| • Sowing Time            | May, June & July                                   |
| • Harvesting Time        | September, October & November                      |
| • Main Growing Districts | Bahwalnagar, Faisalabad, Okara, Pakpattan, Sahiwal |
| • Sample Points          | 7237                                               |
| • Plot Size              | 8X6 SQ.FT                                          |
| • Years Of Study         | 2022-2024                                          |
| • Section                | ST-1                                               |
| • Study Conducted By     | Muhammad Farooq                                    |

# Normality in Sesamum Yield

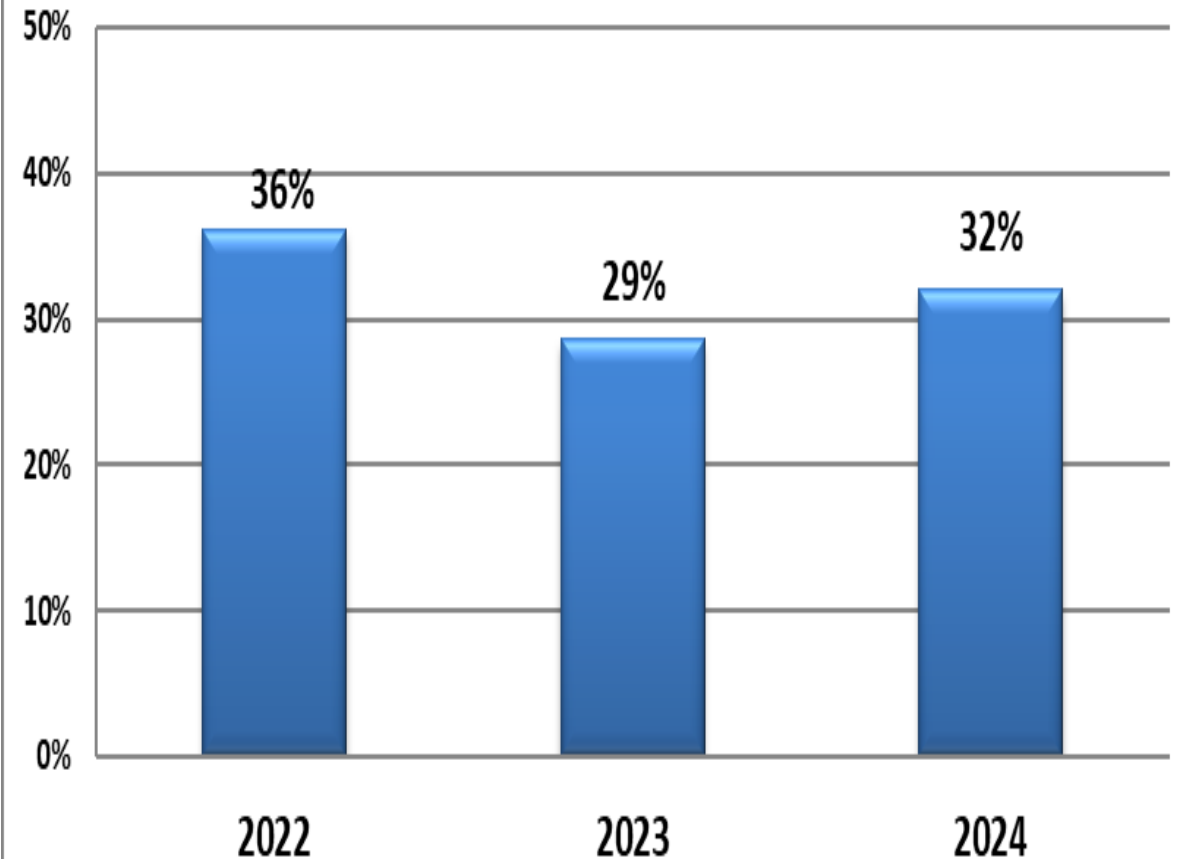


## Sesamum Average Yield & Variation, Punjab

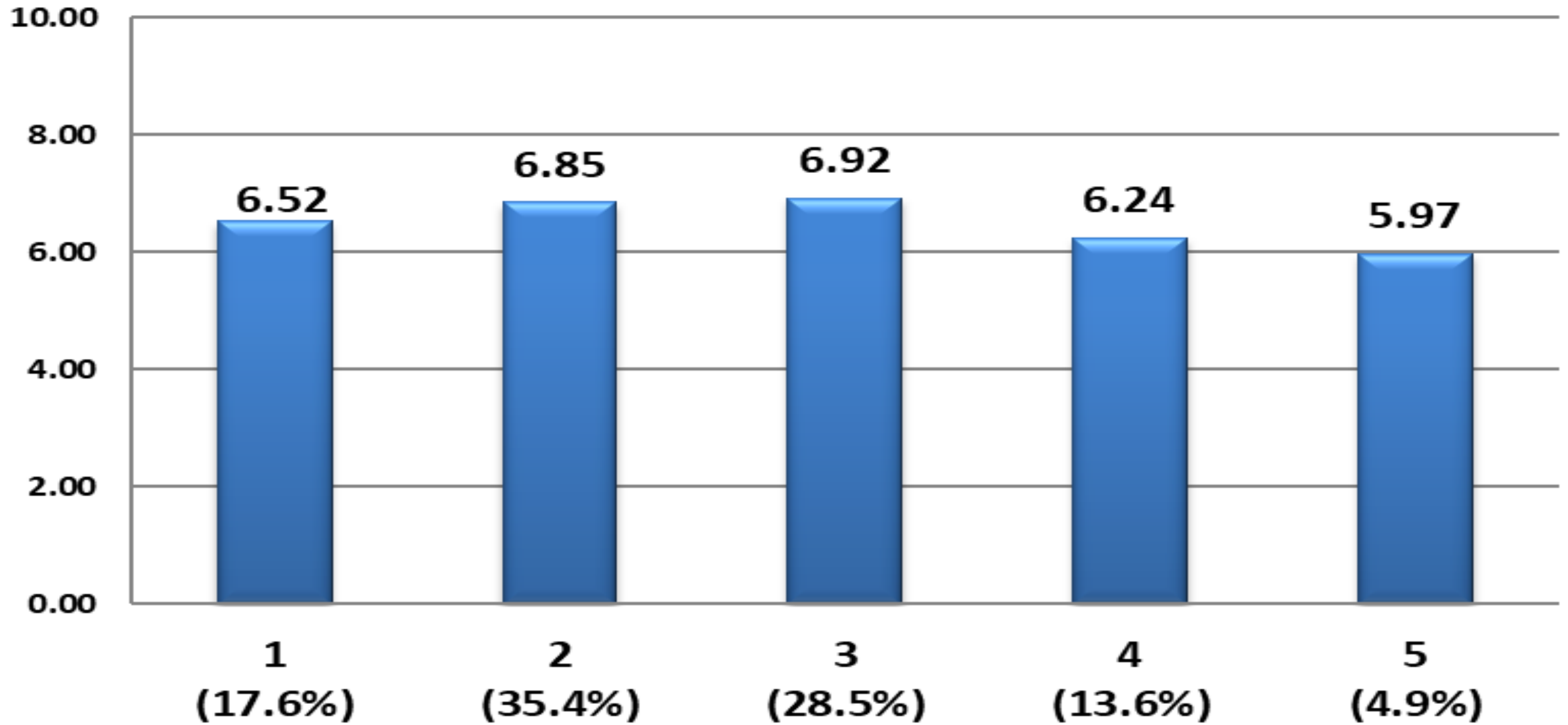
Sesamum Average Yield (m/ac), Punjab



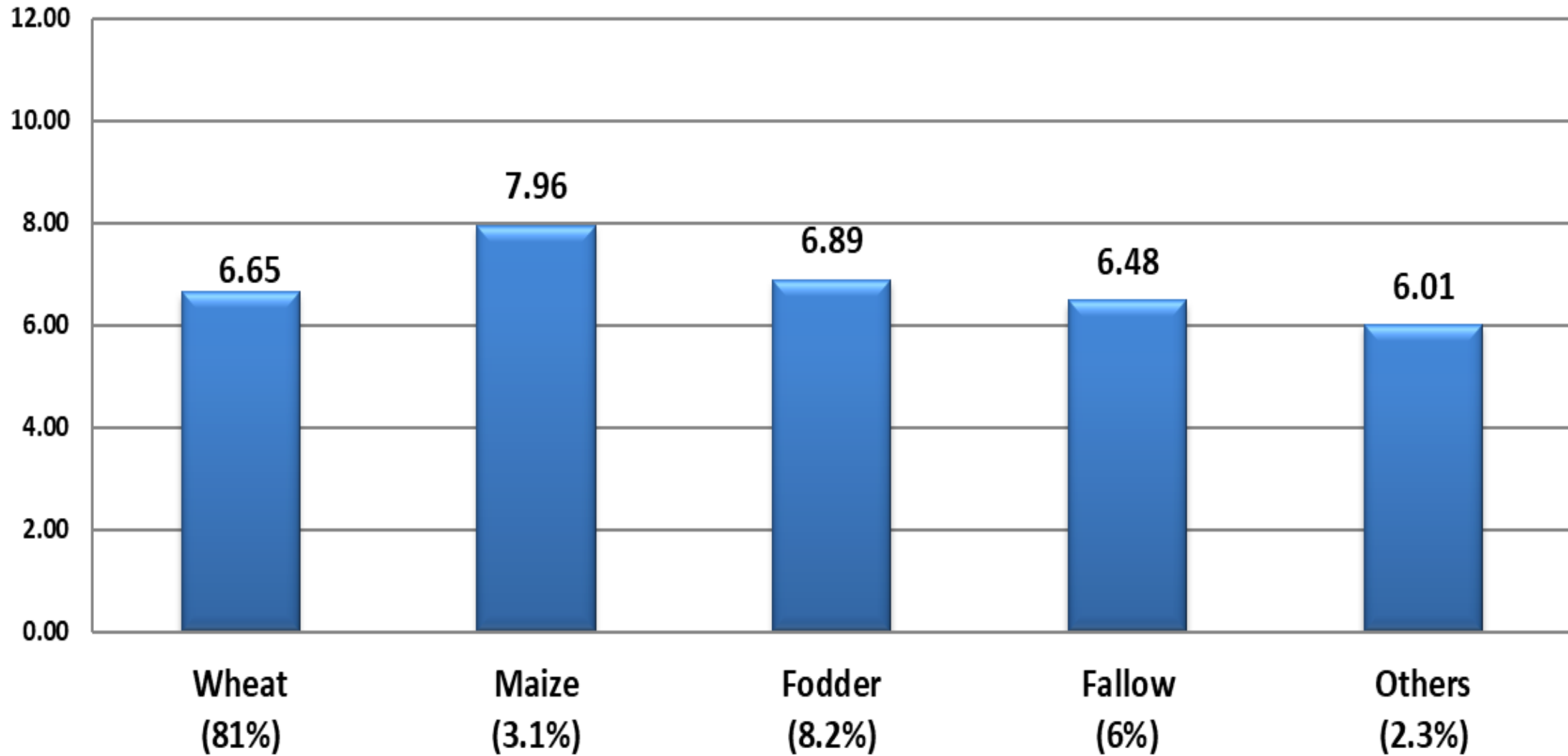
Sesamum Average Yield Variation (C.V), Punjab



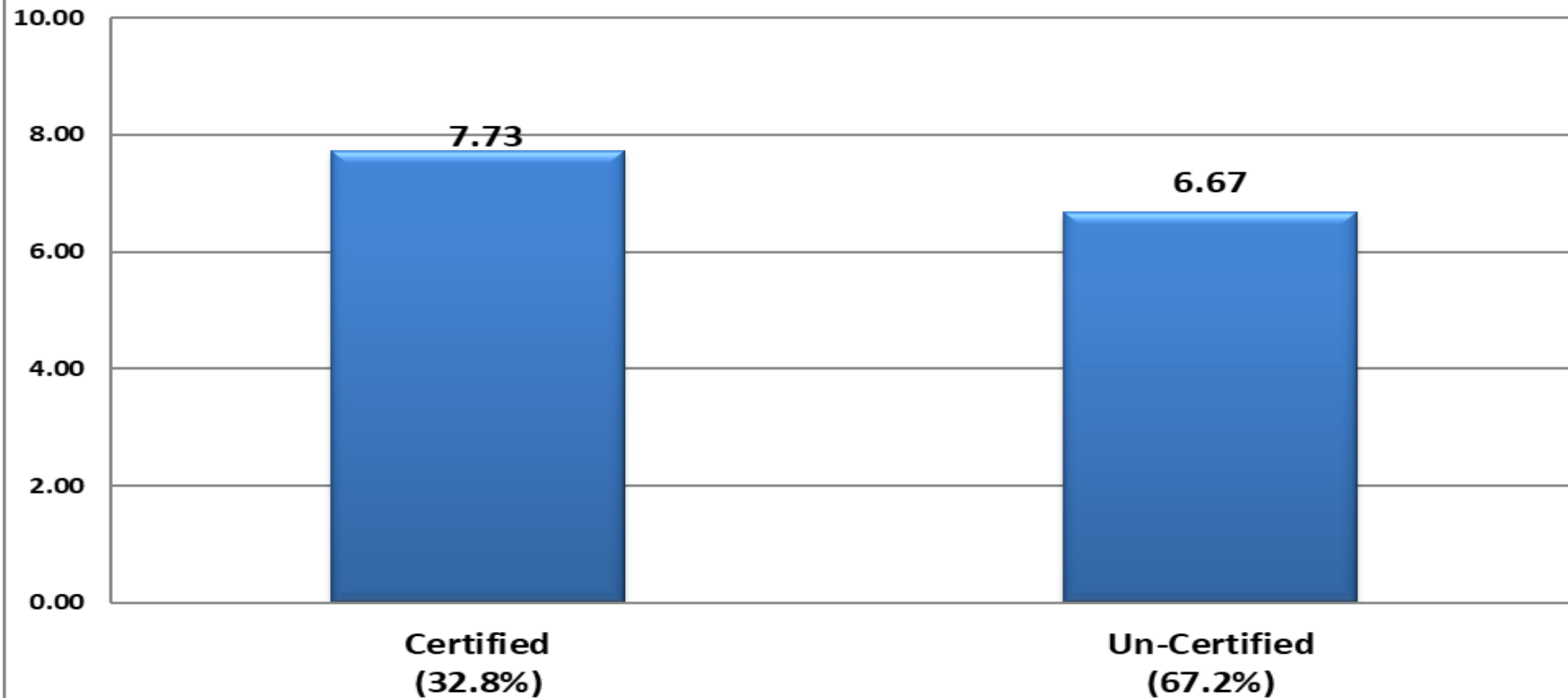
### Sesamum Average Yield by No of Water, Punjab



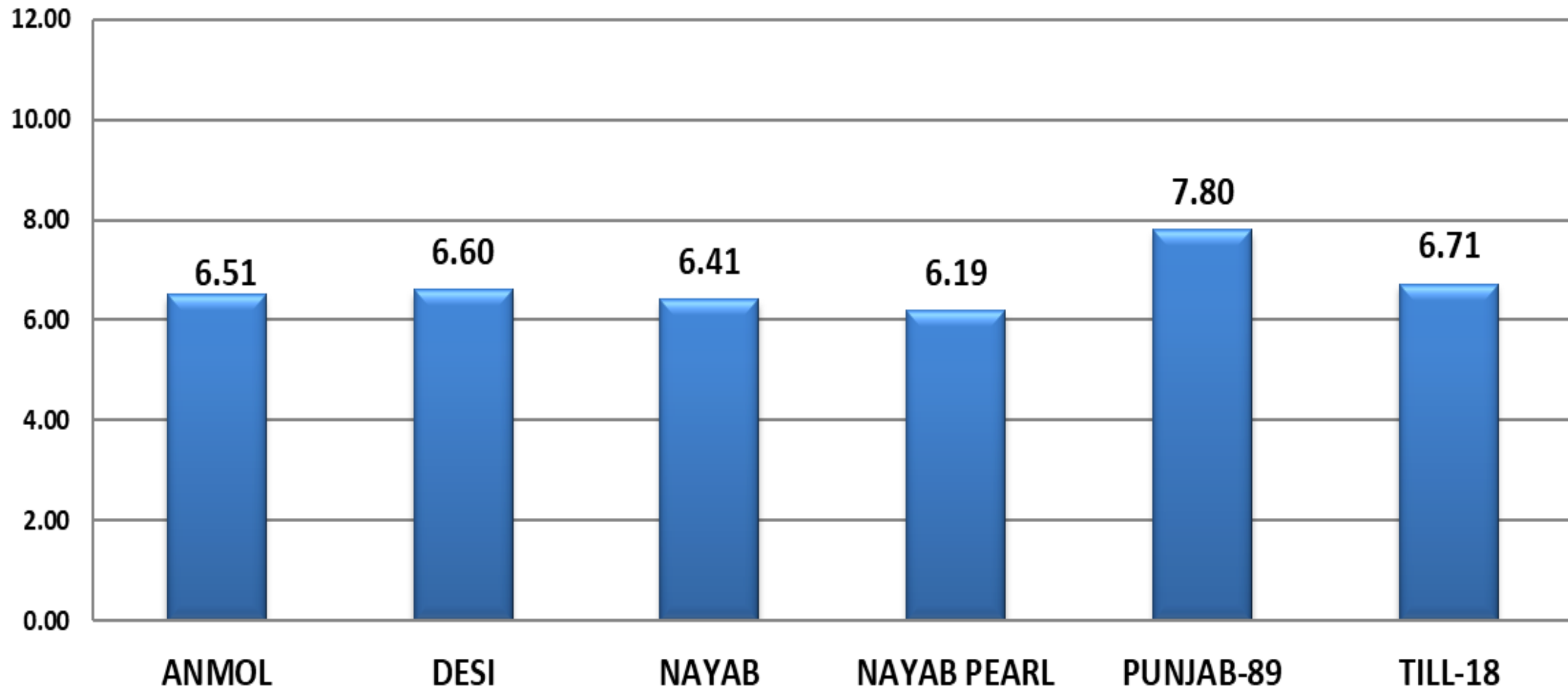
Sesamum Average Yield (m/ac) by Last Crop, Punjab



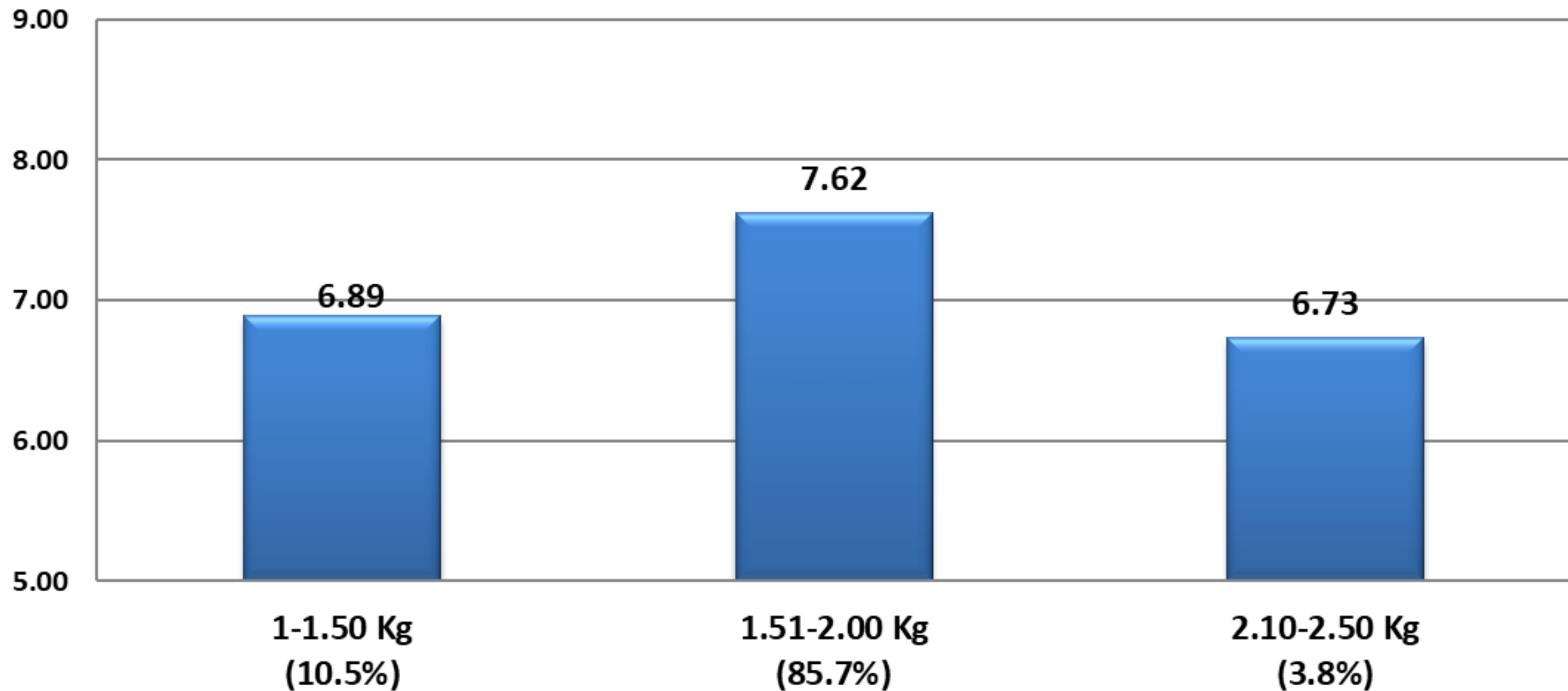
**Sesamum Avg. Yield (m/ac) by Seed Type, Punjab**



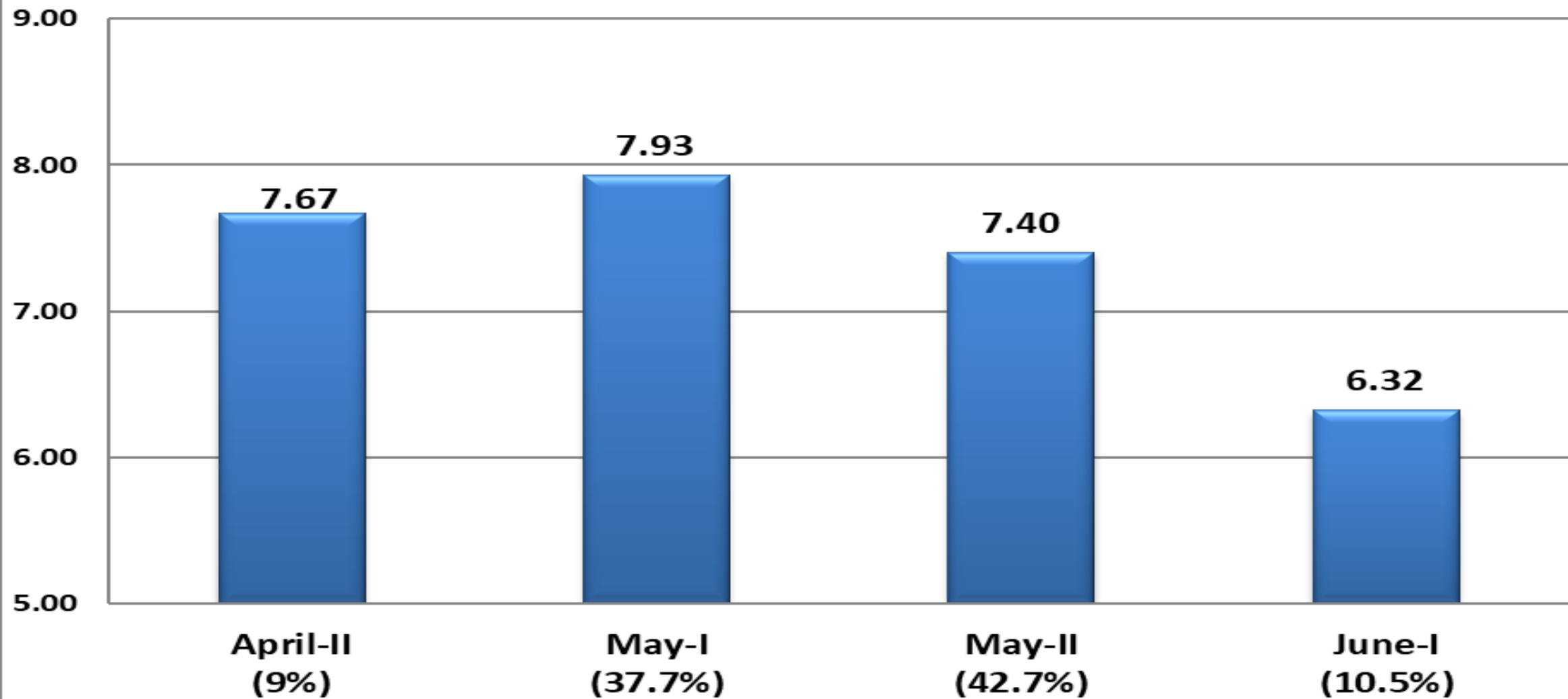
Sesamum Average Yield (m/ac) by Varieties Crop, Punjab



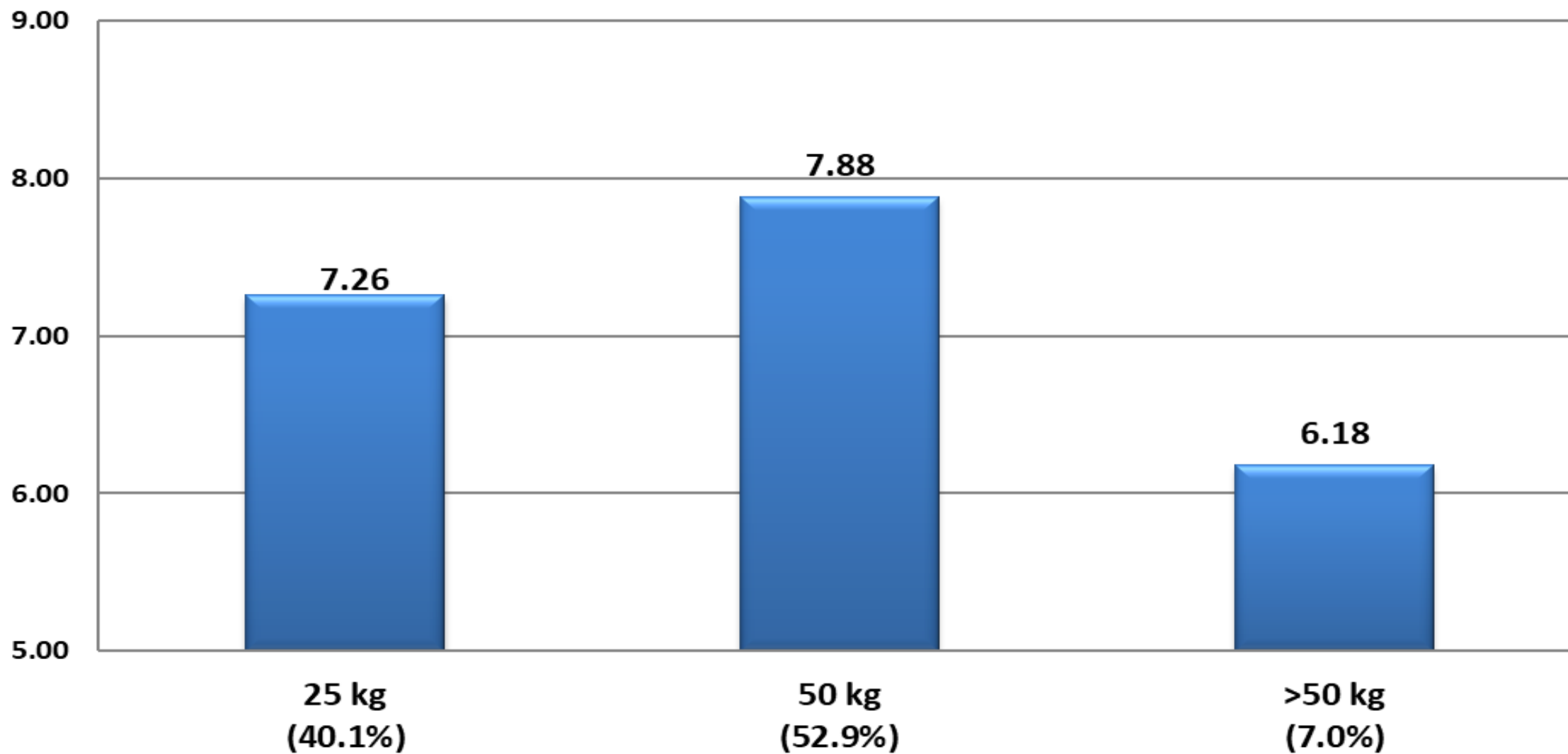
## Sesamum Avg.Yield (m/ac) by Seed Quantity, Punjab



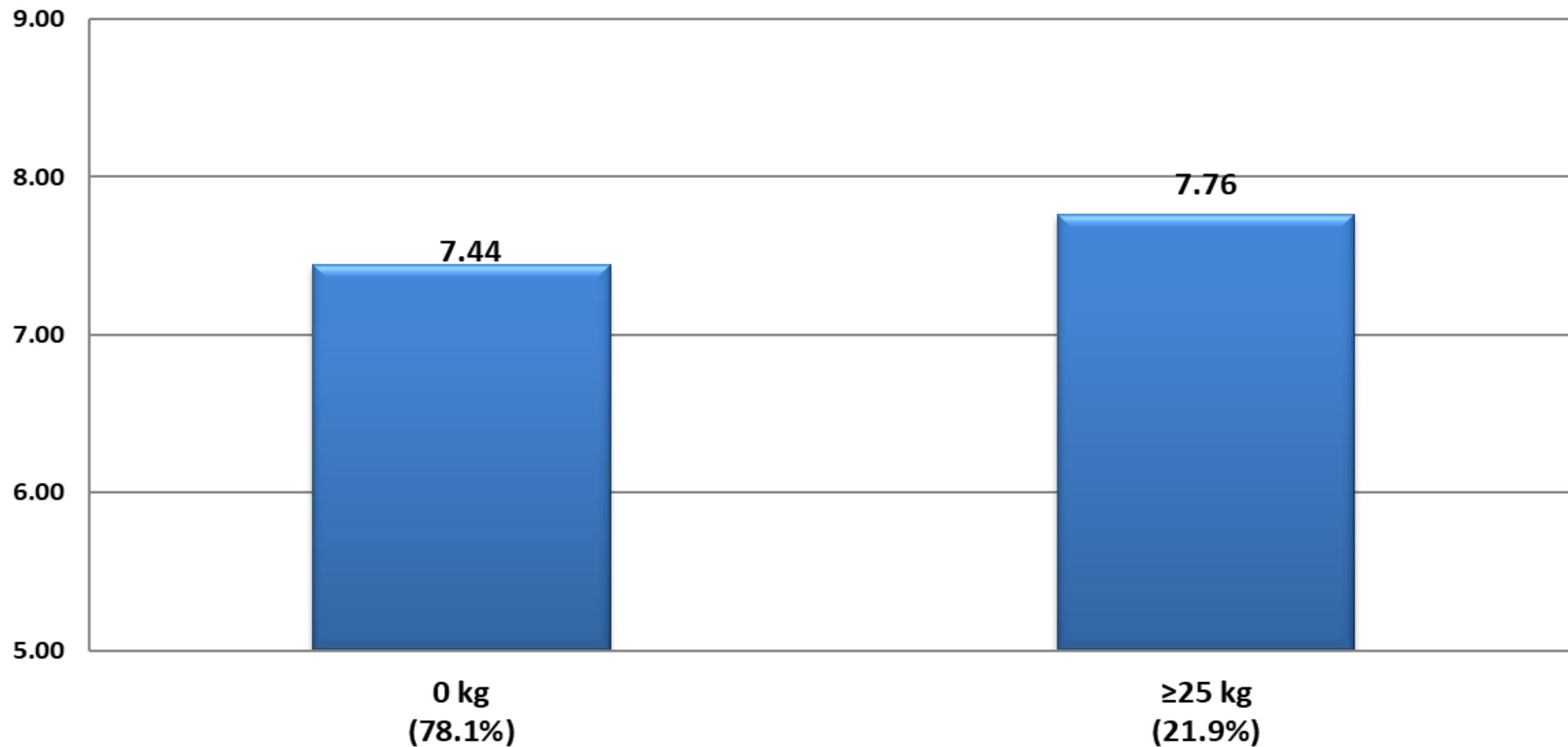
## Sesamum Avg. Yield (m/ac) by Sowing Times, Punjab



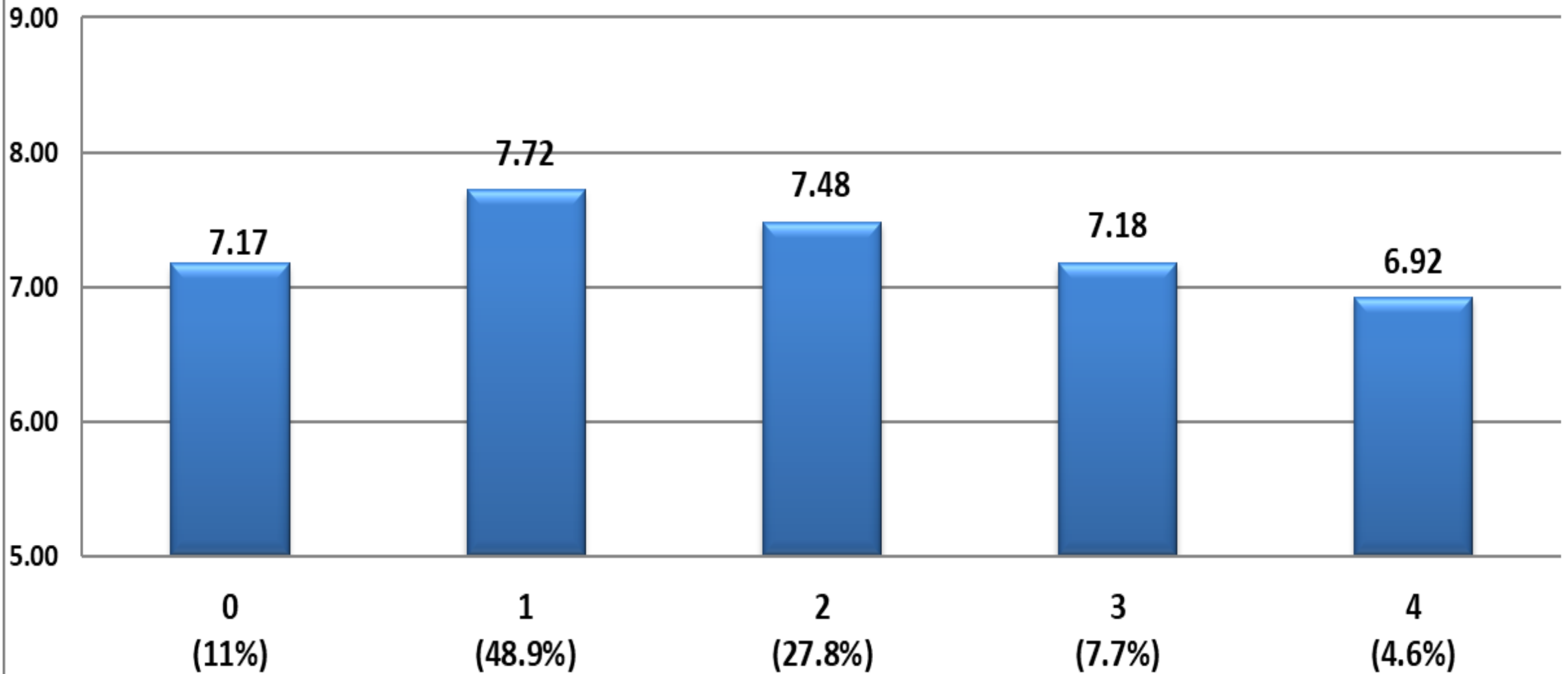
### Sesamum Avg.Yield (m/ac) by Urea Usage (kg/ac), Punjab



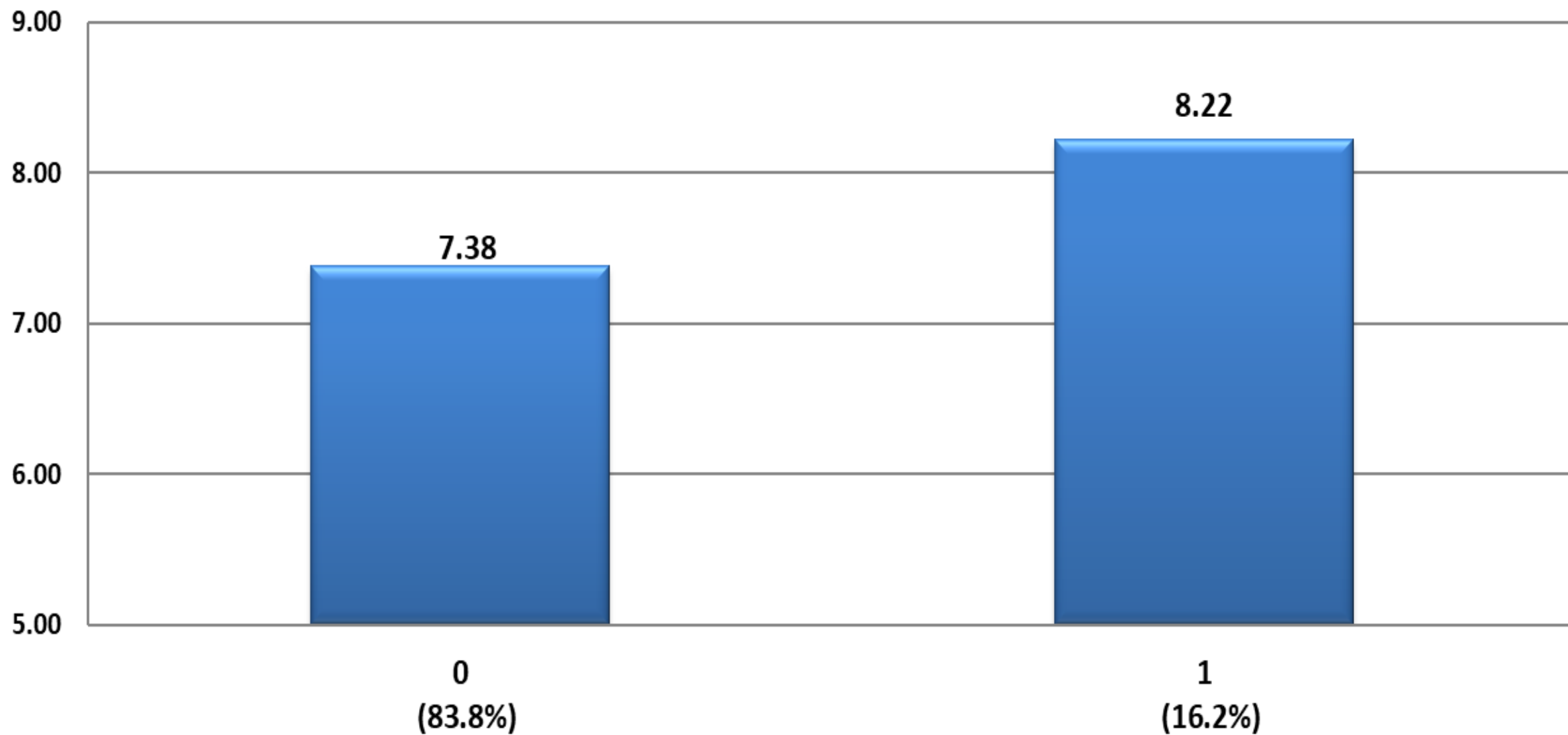
### Sesamum Avg.Yield (m/ac) by DAP Usage (kg/ac), Punjab



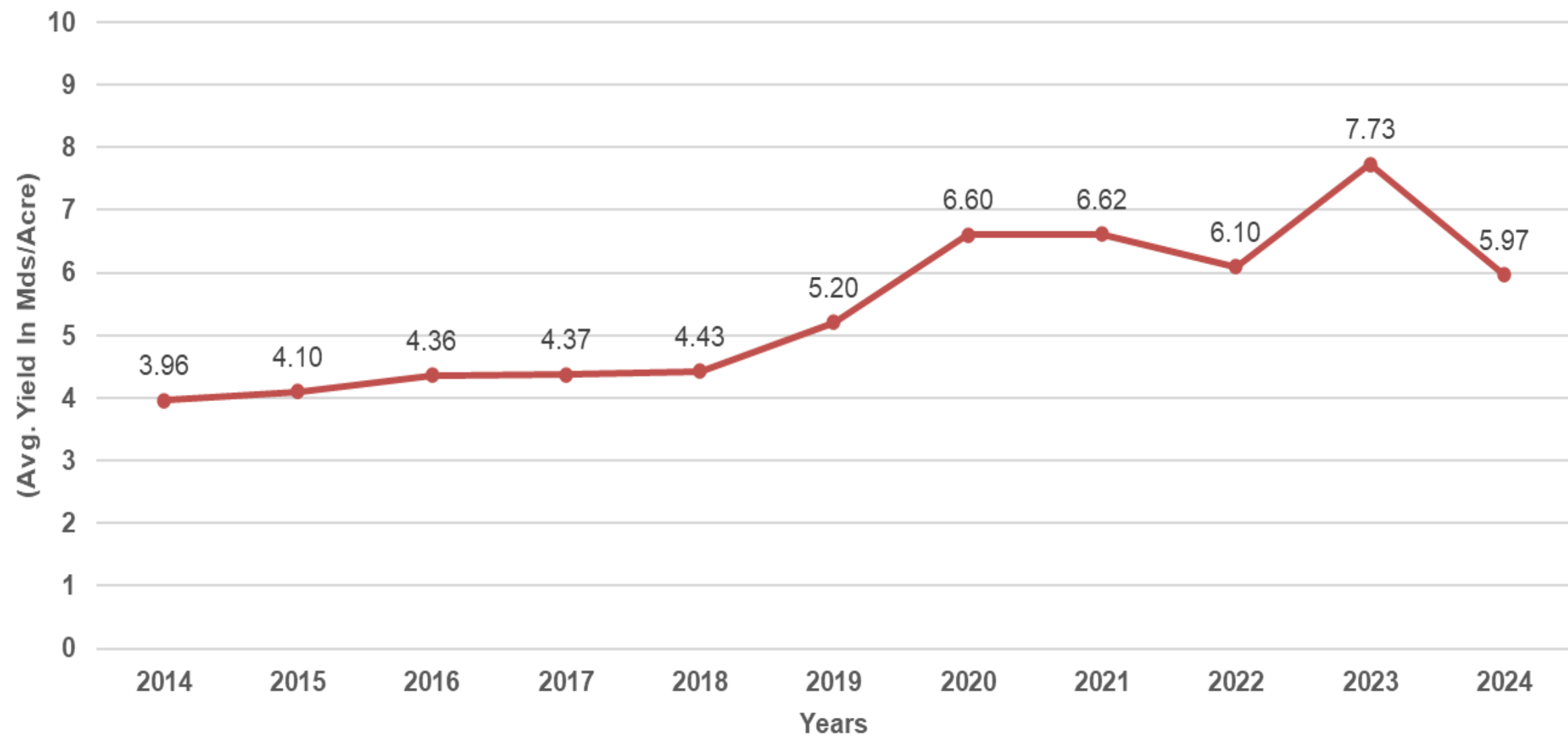
## Sesamum Average Yield (m/ac) by Number of Pest Spray, Punjab



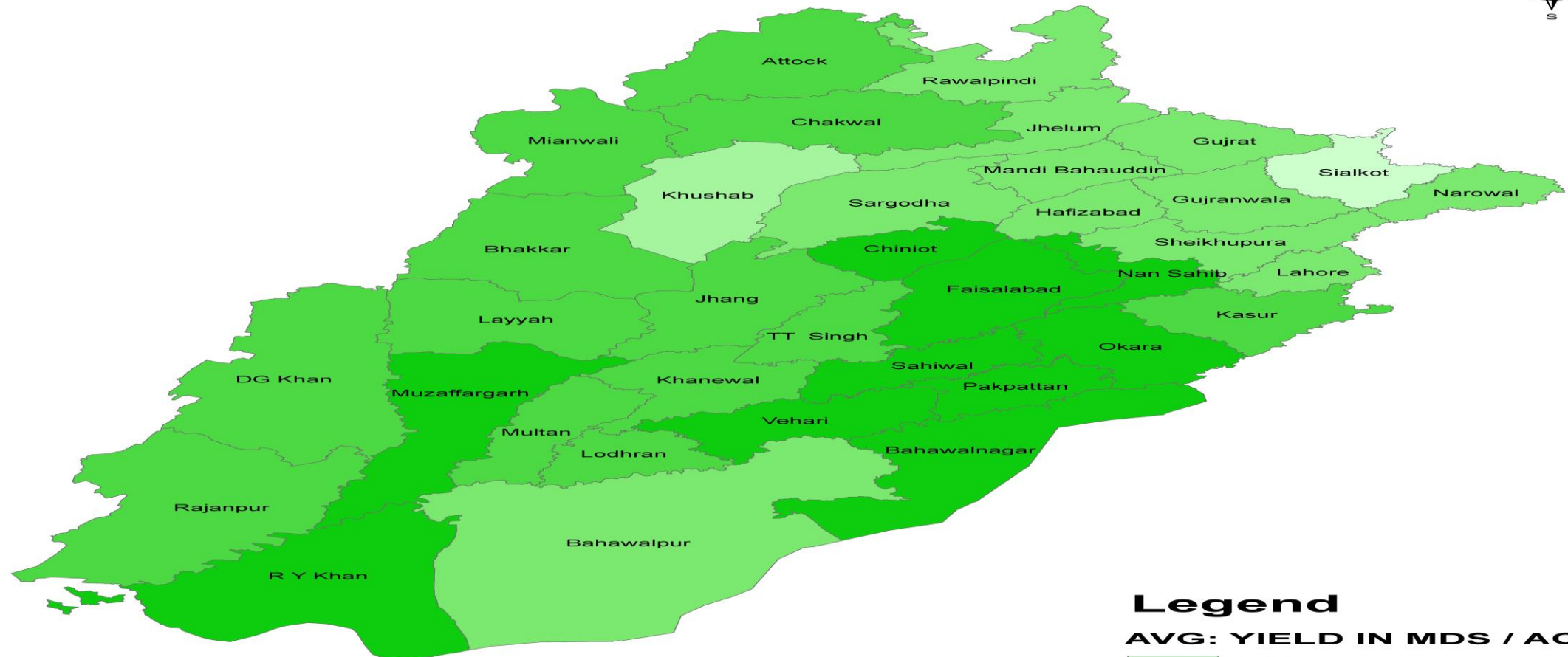
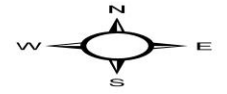
### Sesamum Average Yield (m/ac) by Number of Weeds Spray, Punjab



## Last Ten Years Yield Trend of Sesamum

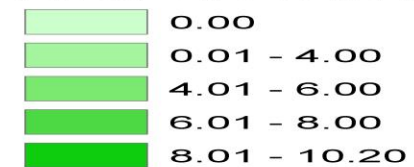


# FINAL ESTIMATE OF SEASAMUM CROP IN THE PUNJAB FOR THE YEAR 2023-24



## Legend

AVG: YIELD IN MDS / ACRE



0 25 50 100 150 200 Kilometers

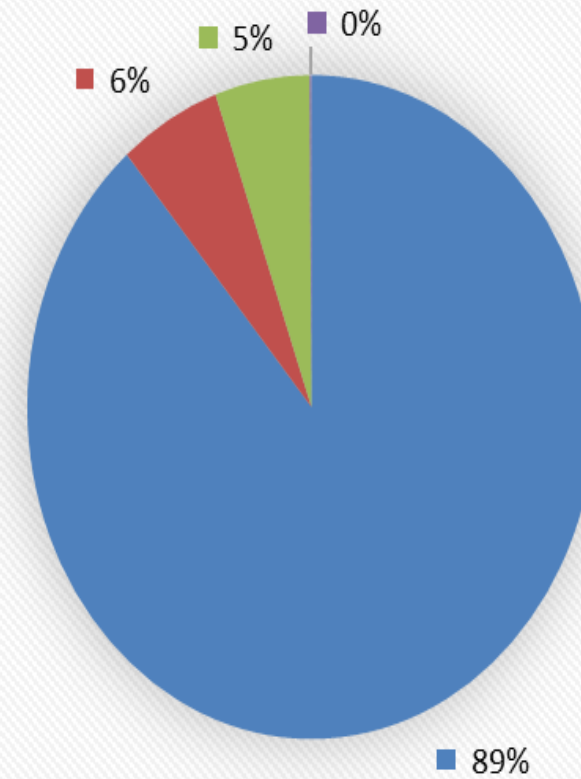
## Sesamum Share in Pakistan

### Sesamum Area Share in Pakistan



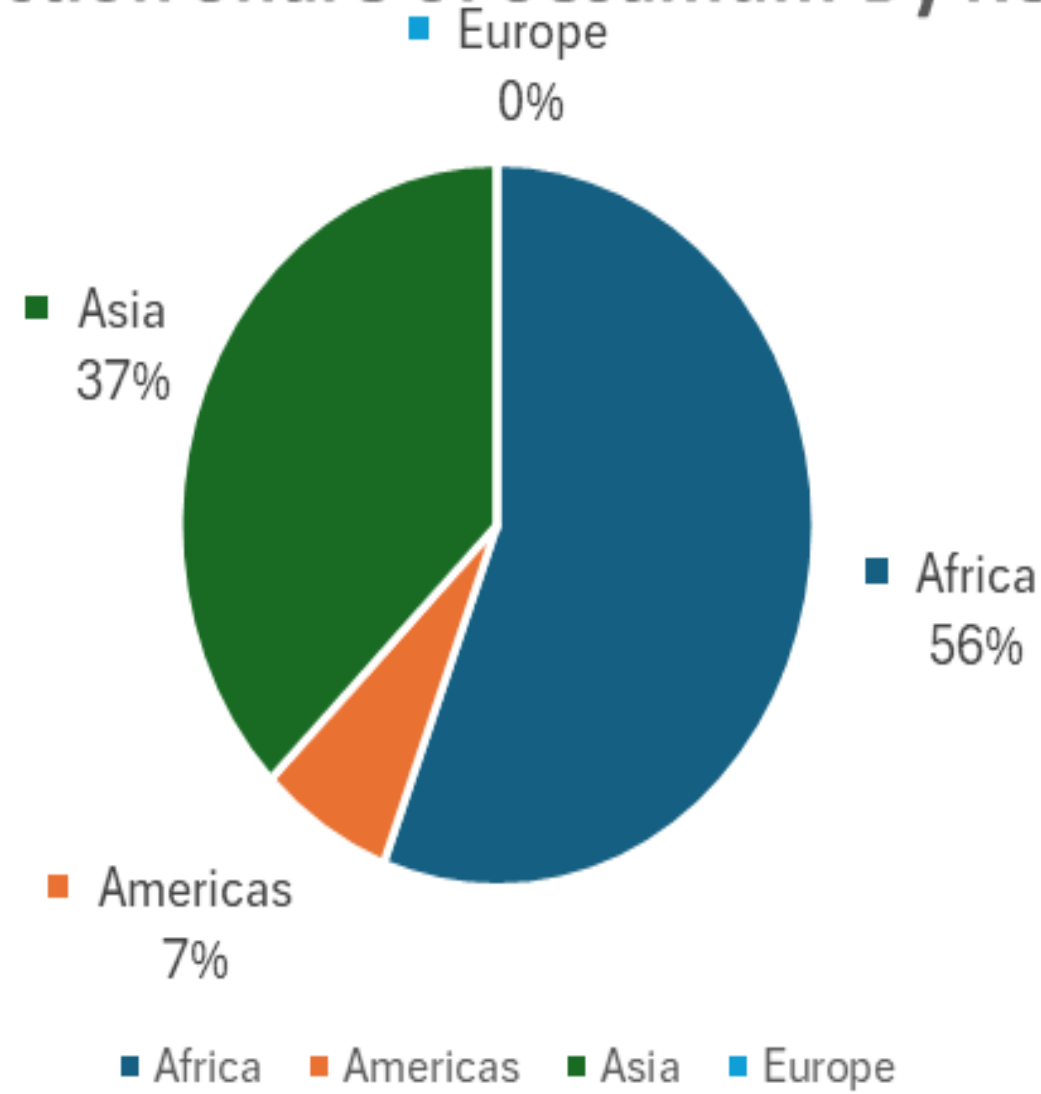
■ Punjab ■ Sindh ■ Balochistan ■ K.P.K

### Sesamum Production Share in Pakistan

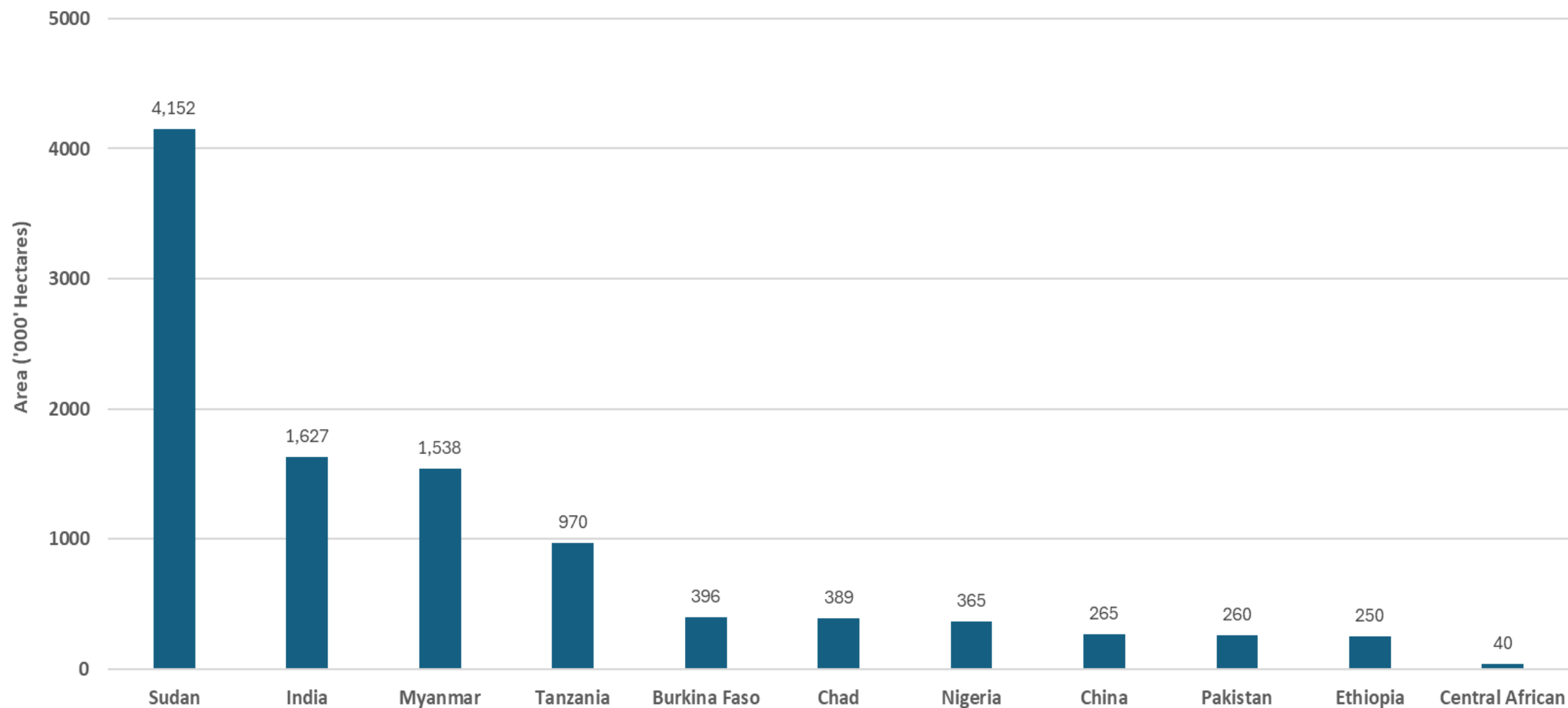


■ Punjab ■ Sindh ■ Balochistan ■ K.P.K

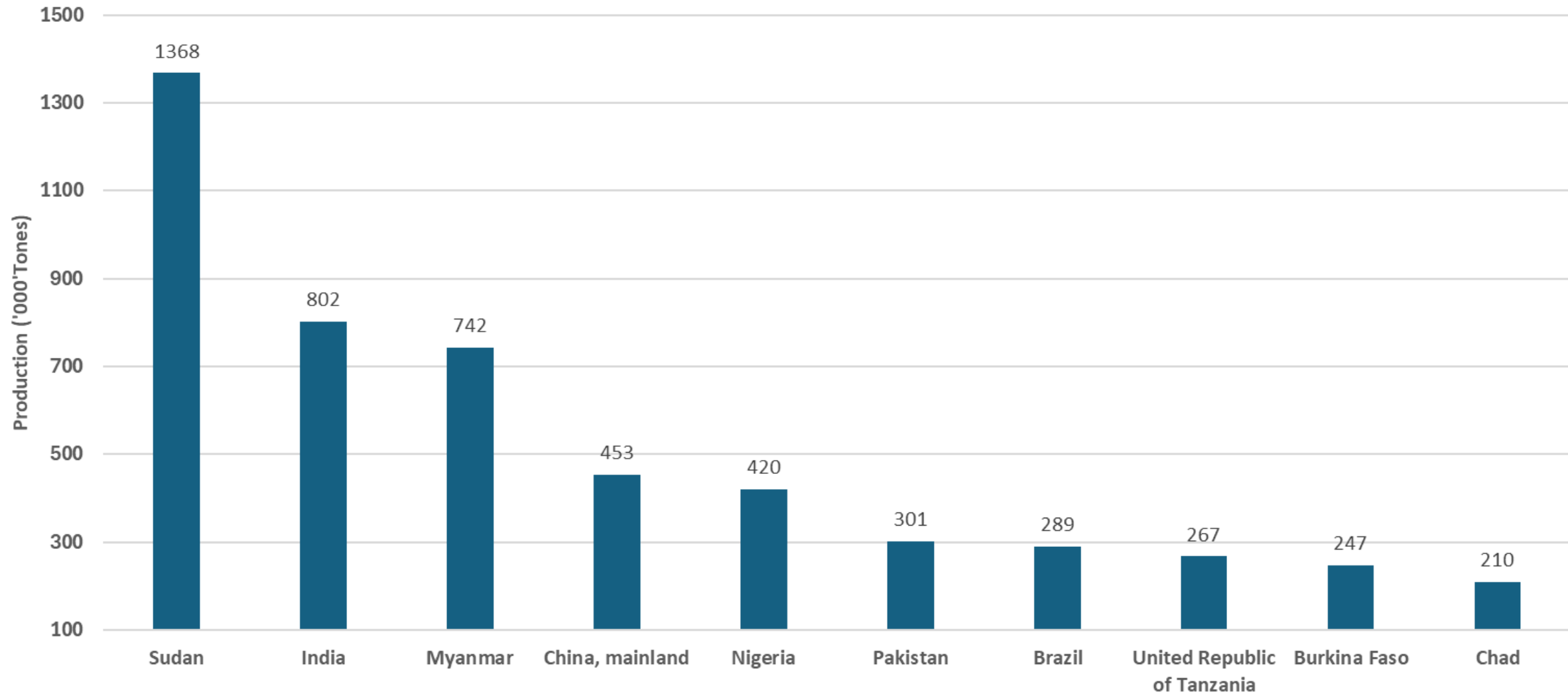
# Production Share of Sesamum By Region



# Area of Sesamum in the World

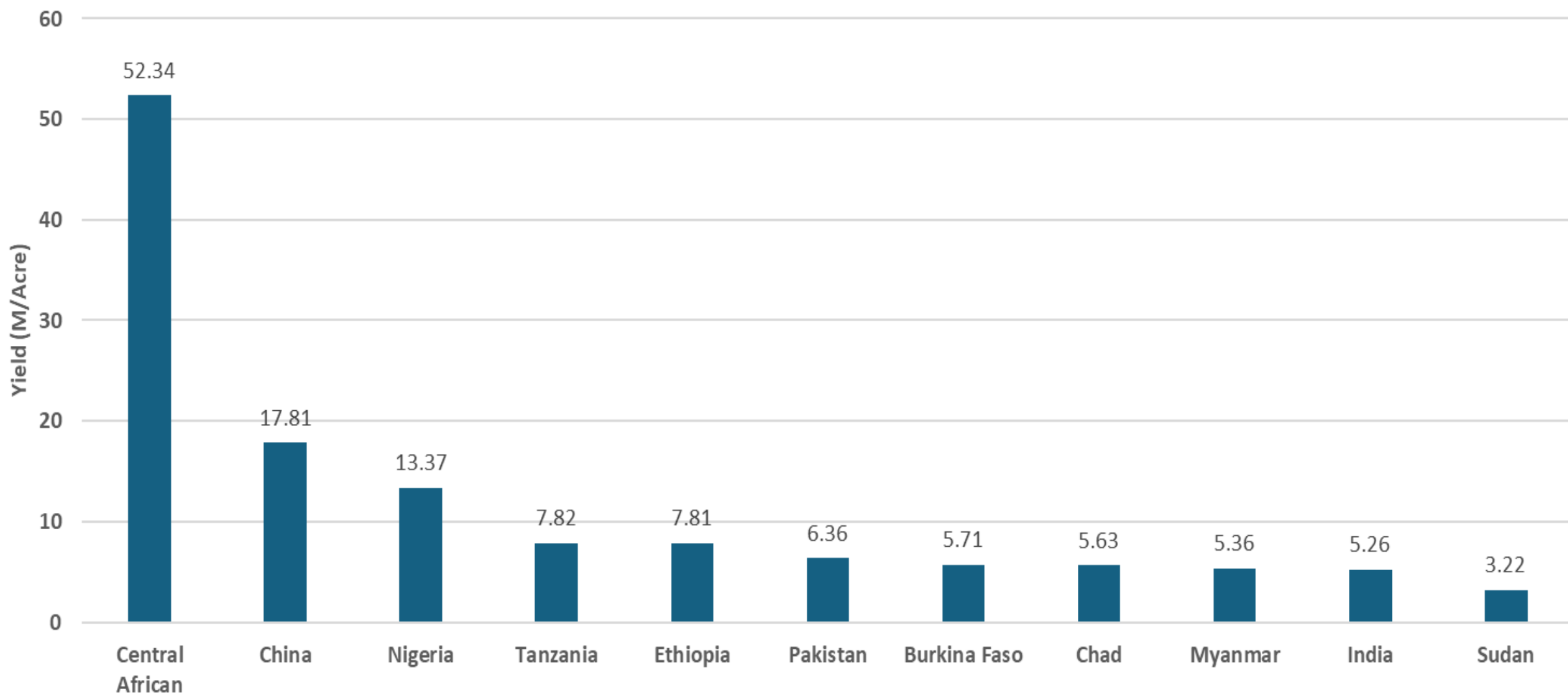


# Production of Sesamum in the World

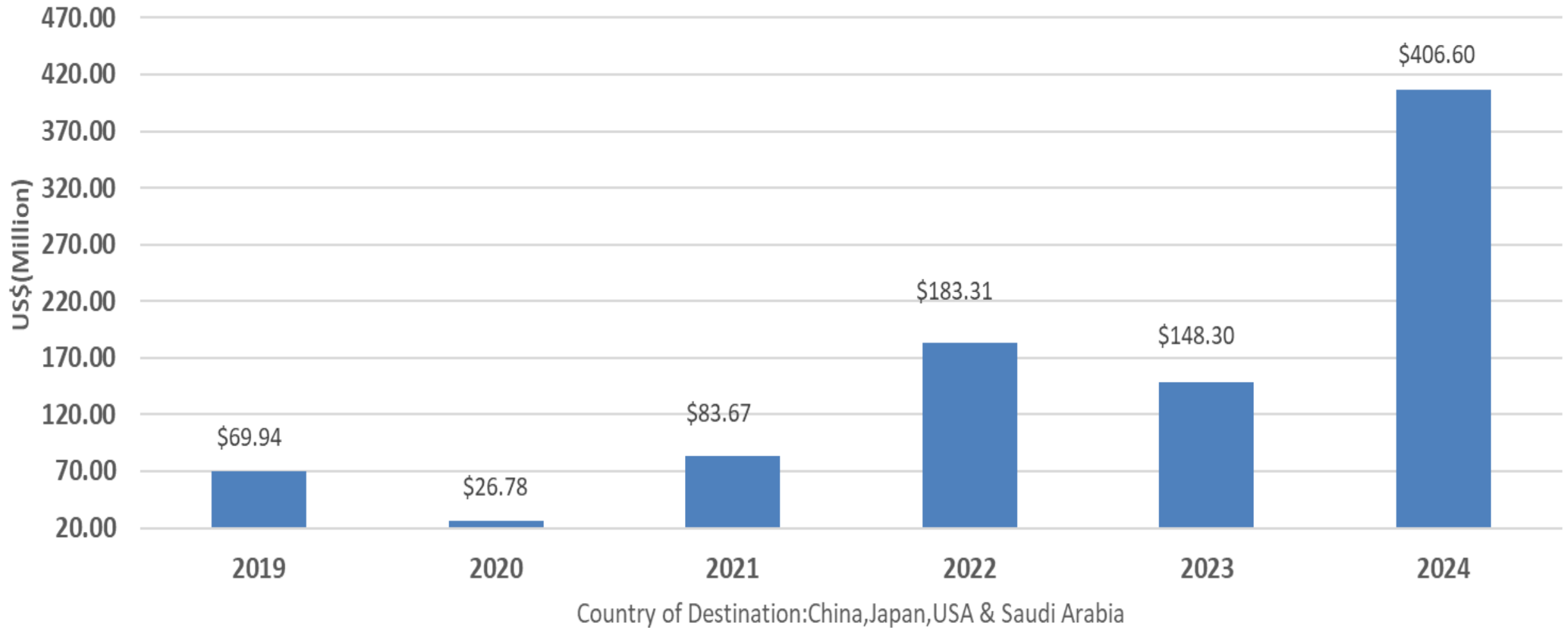


Source FAO

# YIELD of Sesamum in the World



# Pakistan's Export Value in US Dollar of Sesamum



# Cost of Production of Sesamum 2024-25

| <b>Weighted Average Cost of Production</b> |                                  |                                      |                        |                                           |                                |
|--------------------------------------------|----------------------------------|--------------------------------------|------------------------|-------------------------------------------|--------------------------------|
| <b>Sesame, 2024-25</b>                     |                                  |                                      |                        |                                           |                                |
| No.                                        | Operation / Inputs               | Avg. No. of Operation / Unit (/acre) | (%) of Usage (Weights) | Avg. Cost per Operation / Unit (Rs./acre) | Total Weighted Cost (Rs./acre) |
| 1                                          | Deep Ploughing                   | 1                                    | 39%                    | 3494                                      | 1499                           |
|                                            | Ploughing                        | 2                                    | 81%                    | 2095                                      | 3903                           |
|                                            | Planking                         | 2                                    | 89%                    | 1447                                      | 2576                           |
|                                            | Leveling                         | 1                                    | 1%                     | 3291                                      | 33                             |
|                                            | <b>Cost of Land Preparation</b>  |                                      |                        |                                           | <b>8010</b>                    |
| 2                                          | Seed Quantity (kg)               | 2.0                                  | 100%                   | 1138                                      | 2299                           |
|                                            | Seed Drilling                    |                                      |                        |                                           |                                |
|                                            | Seed Broadcasting                | 1                                    | 100%                   | 518                                       | 518                            |
|                                            | Seed Treatment                   | 1                                    | 0%                     | 150                                       | 0                              |
|                                            | <b>Cost of Seed &amp; Sowing</b> |                                      |                        |                                           | <b>2817</b>                    |
| 3                                          | Water No                         | 2                                    | 86%                    | 2398                                      | 4743                           |
|                                            | Water Labour                     | 1                                    | 86%                    | 468                                       | 926                            |
|                                            | <b>Cost of Irrigation</b>        |                                      |                        |                                           | <b>5669</b>                    |
| 4                                          | Urea                             | 1                                    | 76%                    | 4901                                      | 4470                           |
|                                            | DAP                              | 1                                    | 38%                    | 12759                                     | 4848                           |
|                                            | Other Fertilizer                 | 1                                    | 11%                    | 8173                                      | 899                            |
|                                            | Fertilizer Labour/Transport      | 1                                    | 76%                    | 333                                       | 253                            |
|                                            | <b>Cost of Fertilizer</b>        |                                      |                        |                                           | <b>10470</b>                   |
| 5                                          | Dung trolly                      | 3                                    | 1%                     | 1583                                      | 47                             |
|                                            | Dung Labour/Transport            | 1                                    | 1%                     | 1333                                      | 40                             |
|                                            | <b>Cost of Dung</b>              |                                      |                        |                                           | <b>87</b>                      |
| 6                                          | Spray Pesticides                 | 2                                    | 89%                    | 1219                                      | 2495                           |
|                                            | Spray Pest Labour                | 1                                    | 89%                    | 395                                       | 809                            |
|                                            | <b>Cost of Pesticides</b>        |                                      |                        |                                           | <b>3304</b>                    |
|                                            | Spray Weedicides                 | 1                                    | 12%                    | 1219                                      | 161                            |
|                                            | Spray Weeds Labour               | 1                                    | 12%                    | 390                                       | 51                             |

|                                     |                      |                                   |     |              |        |
|-------------------------------------|----------------------|-----------------------------------|-----|--------------|--------|
| 7                                   | Cost of Weedicides   |                                   |     |              | 212    |
|                                     | Pick / Dig Cost      |                                   |     |              |        |
|                                     | Manual Cutting Cost  | 1                                 | 96% | 6783         | 6512   |
|                                     | Threshing Cost       | 1                                 | 94% | 5999         | 5639   |
|                                     | Machine Harvesting   |                                   |     |              |        |
| 8                                   | Cost of Harvesting   |                                   |     |              | 12151  |
| 9                                   | Land Rent (Rs./acre) | 1                                 | 9%  | 160000       | 20000  |
|                                     | Admin. Cost          | 1                                 | 4%  | 4307         | 172    |
|                                     | Tunnel Cost          |                                   |     |              |        |
| 10                                  | Cost of Other Exp.   |                                   |     |              | 172    |
|                                     | Transport Rent       | 1                                 | 72% | 1488         | 1071   |
|                                     | Transport Labour     | 1                                 | 72% | 552          | 397    |
|                                     |                      |                                   |     |              |        |
| 11                                  | Cost of Transport    |                                   |     |              | 1469   |
| Cost of Production                  |                      | At Mandi Gate<br>(With Land Rent) |     | (Rs./ acre)  | 64,362 |
|                                     |                      |                                   |     | (Rs./ 40 Kg) | 10,551 |
| Average Yield                       |                      | for the Last 3 Years              |     | (40kg/acre)  | 6.1    |
| Expected Revenue                    |                      | Crop Value @ 13,189               |     | (Rs./acre)   | 80,453 |
|                                     |                      | Residual Value                    |     | (Rs./acre)   |        |
|                                     |                      | Gross Revenue                     |     | (Rs./acre)   | 80,453 |
| Expected Profit                     |                      | At Mandi Gate<br>(With Land Rent) |     | (Rs./acre)   | 16,091 |
|                                     |                      |                                   |     | (Rs./40kg)   | 2,638  |
| Indicative Price (Rs./ 40 Kg) @ 25% |                      |                                   |     | 13,189       |        |

Source: Crop Reporting Service, Agriculture Deptt, Punjab

RESEARCHED & DESIGNED  
BY  
CROP REPORTING SERVICE,  
AGRICULTURE DEPARTMENT, PUNJAB