

## 5. NATIONAL SUGARCANE VARIETY LIST

Species: *Saccharum officinarum*

| Variety name/code | Official Release name | Year of release in Kenya | Owner(s) / Licensee     | Maintainer and seedling source | Optimal production altitude range (Masl) | Duration to maturity (months) | Cane yield (t ha <sup>-1</sup> ) | Special attributes  |
|-------------------|-----------------------|--------------------------|-------------------------|--------------------------------|--|-------------------------------|----------------------------------|---|
| 1. CO 421         | CO 421                | 1950's                   | SBI India               | KESREF                         | 1100-1600                                | 20-22                         | 80-120                           | ▪ Wide adaptation   |
| 2. CO 617         | CO 617                | 1950's                   | SBI India               | KESREF                         | 1100-1600                                | 18-20                         | 80-120                           | ▪ Tolerant to stress  |
| 3. EAK 69-47      | EAK 69-47             | 1960S                    | EAC/KESREF (also in TZ) | KESREF                         | 1300-1600                                | 20-22                         | 80-110                           | ▪ High cane yield   |
| 4. EAK 70-97      | EAK 70-97             | 1970S                    | EAC/KESREF (also TZ)    | KESREF                         | 1300-1600                                | 18-20                         | 95-120                           | ▪ Smut tolerant   |
| 5. EAK 71-402     | EAK 71-402            | 1970s                    | EAC/KESREF (also in TZ) | KESREF                         | 1300-1600                                | 20-22                         | 80-115                           | ▪ Tolerant to smut and mosaic   |
| 6. CB 38-22       | CB 38-22              | 1998                     | Brazil                  | KESREF                         | 1300-1600                                | 18-20                         | 75-115                           | ▪ Tolerant to smut and moisture stress  |
| 7. CO 1148        | CO 1148               | 1998                     | SBI India               | KESREF                         | 1100-1600                                | 20-22                         | 90-130                           | ▪ High yield  |
| 8. N 14           | N 14                  | 1998                     | SASA, South Africa      | KESREF                         | 1100-1600                                | 18-20                         | 90-135                           | ▪ High sucrose content  |
| 9. KEN 82-401     | KEN 82-401            | 2002                     | KESREF                  | KESREF                         | 1100-1600                                | 15-19                         | 85-140                           | ▪ High sucrose content  |
| 10. KEN 82-737    | KEN 82-737            | 2002                     | KESREF                  | KESREF                         | 1100-1600                                | 16-20                         | 97-130                           | ▪ Tolerant to smut  |
| 11. KEN 82-472    | KEN 82-472            | 2007                     | KESREF                  | KESREF                         | 1200-1620                                | 17-19                         | 74-125                           | ▪ Thick stalks, Good ratooner<br>▪ Wide adaptability<br>▪ Intermediate resistance to smut |
| 12. KEN 82-62     | KEN 82-62             | 2007                     | KESREF                  | KESREF                         | 1200-1620                                | 17-20                         | 66-135                           | ▪ High sucrose content<br>▪ Intermediate resistance to smut                               |
| 13. EAK 73-335    | EAK 73-335            | 2007                     | KESREF                  | KESREF                         | 1200-1620                                | 18-20                         | 89-176                           | ▪ Intermediate resistance to smut   |

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|----------------------------|------------------------|--------------------------|--|--------------------------------|--|-------------------------------|----------------------------------|---|
| 14. D8484                  | D8484                  | 2007                     | Guyana Sugar Cooperative                 | KESREF                         | 1200-1620                                | 14-16                         | 108-145                          | ▪ Resistant to smut   |
| 15. KEN82-121 <sup>¥</sup> | KEN82-121 <sup>¥</sup> | 2011                     | Kenya Sugar Research Foundation (KESREF) | KESREF                         | 1100 -1300                               | 15-17                         | 95-100                           | ▪ Early maturity, High sucrose.   |
| 16. KEN82-493 <sup>¥</sup> | KEN82-493 <sup>¥</sup> | 2011                     | Kenya Sugar Research Foundation (KESREF) | KESREF                         | 1100-1300                                | 15-17                         | 95-100                           | ▪ Early maturity<br>▪ High cane yield<br>▪ Heavy Tillering              |
| 17. KEN82-601 <sup>¥</sup> | KEN82-601 <sup>¥</sup> | 2011                     | Kenya Sugar Research Foundation (KESREF) | KESREF                         | 1100-1300                                | 15-17                         | 95-100                           | ▪ Early maturity<br>▪ High sucrose<br>▪ High cane yield                 |
| 18. 98-367                 | KEN 98-367             | 2014                     | KESREF                                   | KESREF (KIBOS)                 | Nziao, Mumias, Chemelil & Sony           | 15-17                         | Sub-Humid - 84, Humid -127       | ▪ Early Maturity<br>▪ Sucrose content of 13% pol                        |
| 19. 98-530                 | KEN 98-530             | 2014                     | KESREF                                   | KESREF (KIBOS)                 | Kibos, Nziao, Mumias & Muhoroni          | 16-18                         | Sub-Humid 78, Humid 105          | ▪ High Sucrose content(13-14% pol)                                      |
| 20. 98-533                 | KEN 98-533             | 2014                     | KESREF                                   | KESREF (KIBOS)                 | Kibos, Nzoia, Chemelil & Sony            | 16-18                         | Sub-Humid 82, Humid 142          | ▪ Resistant to smut<br>▪ High Sucrose content(13-15% pol)               |
| 21. 98-551                 | KEN 98-551             | 2014                     | KESREF                                   | KESREF (KIBOS)                 | Kibos & Chemelil                         | 16-18                         | Sub-Humid 80, Humid 100          | ▪ High Sucrose content (15% pol)  |
| 22. 00-13                  | KEN 00-13              | 2014                     | KESREF                                   | KESREF (KIBOS)                 | Sony, Muhoroni, Chemelil & Nzoia         | 15-17                         | Sub-Humid 92, Humid 142          | ▪ Early maturity<br>▪ High sucrose content(12-16% pol)<br>▪ High yields |
| 23. 00-3548                | KEN 00-3548            | 2014                     | KESREF                                   | KESREF (KIBOS)                 | Nzoia                                    | 16-18                         | Sub-Humid 77,                    | ▪ Immune to Smut  |

|                   |                       |                          |                     |                                |  |                               | Humid 100                        | <ul style="list-style-type: none"> <li>High sucrose content(13% pol)</li> <li>Good Ratooning</li> </ul>       |
|-------------------|-----------------------|--------------------------|---------------------|--------------------------------|--|-------------------------------|----------------------------------|---|
| Variety name/code | Official Release name | Year of release in Kenya | Owner(s) / Licensee | Maintainer and seedling source | Optimal production altitude range (Masl) | Duration to maturity (months) | Cane yield (t ha <sup>-1</sup> ) | Special attributes  |
| 24. 00-3811       | KEN 00-3811           | 2014                     | KESREF              | KESREF (KIBOS)                 | Mumias & Sony                            | 16-18                         | Sub-Humid 90, Humid 133          | <ul style="list-style-type: none"> <li>High yield</li> <li>High sucrose content(13% pol)</li> </ul>           |
| 25. 00-5873       | KEN 00-5873           | 2014                     | KESREF              | KESREF (KIBOS)                 | Nzoia & Kibos                            | 16-18                         | Sub-Humid 87, Humid 105          | <ul style="list-style-type: none"> <li>Immune to Smut Disease</li> <li>Sucrose content of 12% pol</li> </ul>  |
| 26. KEN 82-808    | KEN 82-808            | 2002                     | KESREF              | KESREF                         | 1100-1600                                | 15-19                         | 95-140                           | <ul style="list-style-type: none"> <li>Tolerant to stress</li> </ul>  |
| 27. KEN 82-247    | KEN 82-247            | 2002                     | KESREF              | KESREF                         | 1100-1600                                | 15-19                         | 87-143                           | <ul style="list-style-type: none"> <li>Early maturity</li> </ul>  |
| 28. KEN 82-216    | KEN 82-216            | 2002                     | KESREF              | KESREF                         | 1100-1600                                | 15-19                         | 95-153                           | <ul style="list-style-type: none"> <li>Early maturity</li> </ul>  |
| 29. KEN 82-219    | KEN 82-219            | 2002                     | KESREF              | KESREF                         | 1100-1600                                | 15-19                         | 84-133                           | <ul style="list-style-type: none"> <li>High sucrose content</li> </ul>  |
| 30. CO 945        | CO 945                | 1998                     | SBI India           | KESREF                         | 1300-1600                                | 18-20                         | 90-130                           | <ul style="list-style-type: none"> <li>High sucrose content</li> </ul>  |
| 31. 98-367        | KEN 98-367            | 2014                     | KESREF              | KESREF (KIBOS)                 | Nzhoa, Mumias, Chemelil & Sony           | 15-17                         | Sub-Humid - 84, Humid -127       | <ul style="list-style-type: none"> <li>Early Maturity</li> <li>Sucrose content of 13% pol</li> </ul>          |
| 32. 98-530        | KEN 98-530            | 2014                     | KESREF              | KESREF (KIBOS)                 | Kibos, Nzhoa, Mumias & Muhoroni          | 16-18                         | Sub-Humid 78, Humid 105          | <ul style="list-style-type: none"> <li>High Sucrose content(13-14% pol)</li> </ul>                            |
| 33. 98-533        | KEN 98-533            | 2014                     | KESREF              | KESREF (KIBOS)                 | Kibos, Nzhoa, Chemelil & Sony            | 16-18                         | Sub-Humid 82, Humid 142          | <ul style="list-style-type: none"> <li>Resistant to smut</li> <li>High Sucrose content(13-15% pol)</li> </ul> |
| 34. 98-551        | KEN 98-551            | 2014                     | KESREF              | KESREF (KIBOS)                 | Kibos & Chemelil                         | 16-18                         | Sub-Humid 80,                    | <ul style="list-style-type: none"> <li>High Sucrose content (15% pol)</li> </ul>                              |

|                   |                       |                          |                     |                                |  |  | Humid 100                        |   |
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| 35. 00-13         | KEN 00-13             | 2014                     | KESREF              | KESREF (KIBOS)                 | Sony, Muhoroni, Chemelil & Nzoia   | 15-17  | Sub-Humid 92, Humid 142          | <ul style="list-style-type: none"> <li>Early maturity</li> <li>High sucrose content(12-16% pol)</li> <li>High yields</li> </ul>   |
| 36. 00-3548       | KEN 00-3548           | 2014                     | KESREF              | KESREF (KIBOS)                 | Nzoia  | 16-18  | Sub-Humid 77, Humid 100          | <ul style="list-style-type: none"> <li>Immune to Smut</li> <li>High sucrose content(13% pol)</li> <li>Good Ratooning</li> </ul>   |
| 37. 00-3811       | KEN 00-3811           | 2014                     | KESREF              | KESREF (KIBOS)                 | Mumias & Sony  | 16-18  | Sub-Humid 90, Humid 133          | <ul style="list-style-type: none"> <li>High yield</li> <li>High sucrose content(13% pol)</li> </ul>   |
| 38. 00-5873       | KEN 00-5873           | 2014                     | KESREF              | KESREF (KIBOS)                 | Nzoia & Kibos  | 16-18  | Sub-Humid 87, Humid 105          | <ul style="list-style-type: none"> <li>Immune to Smut Disease</li> <li>Sucrose content of 12% pol</li> </ul>  |
| 39. 98-367        | KEN 98-367            | 2014                     | KESREF              | KESREF (KIBOS)                 | Nzoia, Mumias, Chemelil & Sony   | 15-17  | Sub-Humid - 84, Humid -127       | <ul style="list-style-type: none"> <li>Early Maturity</li> <li>Sucrose content of 13% pol</li> </ul>  |
| 40. KEN 95 - 378  | KEN 95 – 378          | 2022                     | KALRO - SRI         | KALRO - SRI                    | Altitude:80 0-1500 masl (Highlands) , 150-450 masl (Coastal), AEZ: Humid, Sub Humid and Semi Humid, Sites: Chemelil, | 14 - 1 6 (Plant Crop), 12 - 15 (Ratoon Crop) | 110-115, (per crop cycle)        | <ul style="list-style-type: none"> <li>Early maturing, High pol% cane 12.5 – 13.8</li> <li>Average fibre 16.4 %</li> <li>Intermediate resistance to smut</li> <li>Good ratooning ability</li> </ul> |

|                   |                       |                          |                     |                                | Kibos, Kwale, Muhoroni, Mumias, Nzoia, Mara and Sony   |   |                                  | <ul style="list-style-type: none"> <li>Wide adaptability</li> <li>Tolerant to lodging, and abiotic stress</li> </ul>   |
|-------------------|-----------------------|--------------------------|---------------------|--------------------------------|--|---|----------------------------------|--|
| Variety name/code | Official Release name | Year of release in Kenya | Owner(s) / Licensee | Maintainer and seedling source | Optimal production altitude range (Masl)   | Duration to maturity (months)               | Cane yield (t ha <sup>-1</sup> ) | Special attributes   |
| 41. KEN 95 - 593  | KEN 95 – 593          | 2022                     | KALRO - SRI         | KALRO - SRI                    | Altitude:800-1500 masl (Highlands) , 150-450 masl (Coastal), AEZ: Humid, Sub Humid and Semi Humid, Sites: Chemelil, Kibos, Kwale, Muhoroni, Mumias, Nzoia, Mara and Sony | 14 - 16 (Plant Crop), 12 - 15 (Ratoon Crop) | 80-100 (per crop cycle)          | <ul style="list-style-type: none"> <li>Early maturing</li> <li>High Pol % cane 12 - 14.3</li> <li>Fibre 16.1%</li> <li>Good ratooning ability</li> <li>Tolerant to lodging, and abiotic stress</li> <li>Inter resistance to smut</li> <li>Wide adaptability</li> </ul> |
| 42. KEN 97 - 102  | KEN 97 – 102          | 2022                     | KALRO - SRI         | KALRO - SRI                    | Altitude:800-1500 masl (Highlands) , 150-450 masl (Coastal), AEZ: Humid, Sub Humid and Semi Humid, Sites: Chemelil, Kibos, Kwale   | 14 - 16 (Plant Crop), 12 - 15 (Ratoon Crop) | 120-130 (per crop cycle)         | <ul style="list-style-type: none"> <li>High Pol % cane 12 - 14.1</li> <li>Fibre 16.2%</li> <li>Early maturing</li> <li>Resistant to smut</li> <li>Good ratooning ability</li> <li>Easily detashing</li> <li>Wide adaptability</li> </ul>                               |

|                   |                       |                          |                     |                                | Muhoroni, Mumias, Nzoia, Mara and Sony   |   |                                  |  |
|-------------------|-----------------------|--------------------------|---------------------|--------------------------------|--|---|----------------------------------|--|
| Variety name/code | Official Release name | Year of release in Kenya | Owner(s) / Licensee | Maintainer and seedling source | Optimal production altitude range (Masl)   | Duration to maturity (months)               | Cane yield (t ha <sup>-1</sup> ) | Special attributes   |
| 43. KEN 97 - 131  | KEN 97 - 131          | 2022                     | KALRO - SRI         | KALRO - SRI                    | Altitude:80 0-1500 masl (Highlands) , 150-450 masl (Coastal), AEZ: Humid, Sub Humid and Semi Humid, Sites: Chemelil, Kibos, Kwale Muhoroni, Mumias, Nzoia, Mara and Sony | 14 - 16 (Plant Crop), 12 - 15 (Ratoon Crop) | 110-115 (per crop cycle)         | <ul style="list-style-type: none"> <li>High pol % cane 12.3 - 14.0</li> <li>Fibre 16.6%</li> <li>Early maturing</li> <li>Good ratooning ability</li> <li>Tolerant to lodging, smut, mosaic and RSD</li> <li>Easily dethrashing</li> <li>Wide adaptability</li> </ul> |
| 44. KEN 97 - 215  | KEN 97 - 215          | 2022                     | KALRO - SRI         | KALRO - SRI                    | Altitude:80 0-1500 masl (Highlands) , 150-450 masl (Coastal), AEZ: Humid, Sub Humid and Semi Humid, Sites: Chemelil, Kibos, Kwale Muhoroni, Mumias, Nzoia, Mara and Sony | 14 - 16 (Plant Crop), 12 - 15 (Ratoon Crop) | 90-115 (per crop cycle)          | <ul style="list-style-type: none"> <li>High pol % cane 12 - 13.8, Fibre 16.4%</li> <li>Early maturity</li> <li>Easily dethrashing</li> <li>Moderate ratooning ability</li> <li>Tolerant to RSD and Mosaic</li> </ul>   |

|                      |                             |                                   |                        |  | Nzoia,<br>Mara and<br>Sony   |   |  |  |
|----------------------|-----------------------------|-----------------------------------|------------------------|--|--|---|--|--|
| Variety<br>name/code | Official<br>Release<br>name | Year of<br>release<br>in<br>Kenya | Owner(s) /<br>Licensee | Maintain<br>er and<br>seedling<br>source | Optimal<br>production<br>altitude<br>range<br>(Masl)   | Duration<br>to<br>maturity<br>(months)                      | Cane<br>yield (t<br>ha <sup>-1</sup> ) | Special attributes   |
| 45. KEN 97 -<br>317  | KEN 97 –<br>317             | 2022                              | KALRO - SRI            | KALRO -<br>SRI                           | Altitude:80<br>0-1500<br>masl<br>(Highlands)<br>, 150-450<br>masl<br>(Coastal),<br>AEZ:<br>Humid, Sub<br>Humid and<br>Semi<br>Humid,<br>Sites:<br>Chemelil,<br>Kibos,<br>Kwale<br>Muhoroni,<br>Mumias,<br>Nzoia,<br>Mara and<br>Sony | 14 - 1 6<br>(Plant<br>Crop),<br>12 - 15<br>(Ratoon<br>Crop) | 110-<br>115<br>(per<br>crop<br>cycle)  | <ul style="list-style-type: none"> <li>▪ High pol %<br/>cane 12.2 -<br/>14.4</li> <li>▪ Fibre 16.1%</li> <li>▪ Early maturity</li> <li>▪ Moderate<br/>ratooning<br/>ability</li> <li>▪ Tolerant to<br/>mosaic and<br/>RSD</li> <li>▪ Wide<br/>adaptability</li> <li>▪ Easily<br/>detrashing</li> </ul> |

