|  |
| --- |
| MCHARE PRODUCT PROFILE |
| Region/Market segment | Trait (economic, sustainability, livelihood) and value | Target trait level | Market Priority | Selection Objective |
| Arusha/Kilimanjaro |
| Fresh market and processing | Yield | 25% greater than Huti White Bell | 1 | Maximize |
| Table quality (palatability) | Texture comparable to Mchare laini. Need metrics | 1 | maximize |
| Bunch compactness | Comparable to Huti White | 2 | maximize |
| Earliness: planting to harvest (production cycle) | <365 day | 2 | Minimize |
| Plant stature (girth at 1m/height ratio) | A ratio of at least 0.15 | 2 | Maximize |
| Plant height  | <2.75 m | 1 | Minimize |
| Suckering behavior | >50% follower sucker growth at harvest | 2 | Maximize |
| Average Fruit weight | >150g – 200g | 1 | Maximize |
| Storage duration of fruits (shelf life) | >8 days from harvest until fruit yellows with black spots under natural conditions | 2 | Maximize |
| Resistance to black Sigatoka | INSL at flowering of 70% and above | 1 | Reach threshold |
| Resistance to weevils | Resistance higher than that of the susceptible check (Huti White) | 2 | Maximize |
| Resistance to Radopholus similis | Resistance higher than that of the susceptible check (Huti White) | 2 | Maximize |
| Resistance to Fusarium | Comaprable to resistant check (Calcutta 4) | 1 | Maximize |
| Resistance to BBTV | Sources of resistance to be identified | 3 | Opportunistic |
| Bunch orientation | Pendulous score of 1 or 2 | 1 | Opportunistic |
| Fruit parthenocapy and fertility | Parthenocarpic fruit development without seed production | 1 | Maximize |
| Drought tolerance (water productivity)  | Tools to be developed | 3 | Reach threshold |
| High pVAC content  | Average total carotenoid content of 12 ug/g fresh weight at the green stage | 2 | Opportunistic |