



Elisha Otieno Gogo (Autor)

Pre- and postharvest treatments for the quality assurance of African indigenous leafy vegetables

Berliner ökophysiologische
und phytomedizinische Schriften



Elisha Otieno Gogo

**Pre- and postharvest treatments
for the quality assurance of African
indigenous leafy vegetables**

Band 41



Cuvillier Verlag Göttingen
Internationaler wissenschaftlicher Fachverlag

<https://cuvillier.de/de/shop/publications/7650>

Copyright:

Cuvillier Verlag, Inhaberin Annette Jentsch-Cuvillier, Nonnenstieg 8, 37075 Göttingen, Germany
Telefon: +49 (0)551 54724-0, E-Mail: info@cuvillier.de, Website: <https://cuvillier.de>



List of tables

	<u>Page</u>
Table 2.1: Leaf yield and nutritional value (per 100 g fresh edible portion) of selected Kenyan African indigenous leafy vegetables (AIVs).....	5
Table 2.2: Postharvest losses, storability and treatments of selected Kenyan African indigenous leafy vegetables (AIVs).....	5
Table 2.3: Summary of studies on pre-harvest application effects of electric fields on vegetables during production.....	10
Table 2.4: Summary of studies on postharvest application effects of electric fields on fresh vegetables	11
Table 2.5: Summary of studies on postharvest application effects of electric fields on vegetables during processing.....	12
Table 2.6: Summary of studies on pre-harvest UV-C application effects on vegetables	15
Table 2.7: Summary of studies on postharvest UV-C application effects on morphology and physiology of vegetables.....	16
Table 2.8: Summary of studies on postharvest UV-C application and their effects on secondary metabolites and antioxidative properties of vegetables.....	18
Table 2.9: Summary of studies on postharvest UV-C application effects on microbiological properties of vegetables	19
Table 3.1: Sociodemographic profiles (%), as means \pm standard deviations, of farmers cultivating African indigenous leafy vegetables in Kenya (n = 45 for each county)	24
Table 3.2: Production, harvest operations and causes of losses at harvest (%), as means \pm standard deviations, of the main African indigenous leafy vegetables cultivated in Kenya (n = 45 for each county).....	26
Table 3.3: Seasonality, postharvest treatments, and preservation (%), as means \pm standard deviations, of African indigenous leafy vegetables in Kenya (n = 45 for each county)	27
Table 3.4: Transportation and causes of losses during transportation (%), as means \pm standard deviations, of African indigenous leafy vegetable in Kenya (n = 45 for each county).....	29
Table 3.5: Marketing and causes of market losses (%), as means \pm standard deviations, of African indigenous leafy vegetables in Kenya (n = 45 for each county)	30
Table 4.1: Weather conditions during the supply chain evaluation of African nightshade leaves from the main producing counties in Kenya.....	43
Table 4.2: Causes of postharvest losses (%) of African nightshade leaves during supply from the main producing counties in Kenya (n = 45).....	44
Table 4.3: Economic loss during postharvest supply chain of African nightshade plants in Kenya.....	50
Table 5.1: Effect of different electrical voltages on growth of African nightshade plants.....	62