**Table S2.** Details on the maize varieties grown in Mangae. Sources of information: Survey in Mangae July 2010 and National variety list 1950-2008 in (Ngwediagi et al., 2009).

<table>
<thead>
<tr>
<th>Variety</th>
<th>Year released and institution</th>
<th>Information</th>
</tr>
</thead>
</table>
| Katumani | 1950s by KARI Kenya | White Flint  
Hybrid  
Low rainfall areas  
Suitable <1500 masl  
Achievable yield: 3.0-3.5 tons/ha |
| Kito | 1983 | Open pollinated variety (OPV)  
White Flint  
Early maturity: 90 days  
Drought avoiding  
Low rainfall areas |
| Staha | 1983 by ARI Ilonga | OPV  
White Flint-Dent  
Based on cross between Ilonga composite (local breeding population) (50%), Tuxpeño (CIMMYT population) (45%) and small proportion (5%) of Katumbili  
Large ears  
Late maturity: 120 days  
Drought tolerant  
Good standability, not very tall  
Tolerant to maize streak virus (MSV)  
Suitable <900 masl  
Achievable yield: 4.0 -5.0 tons/ha |
| TMV 1 | 1987 by ARI Ilonga | OPV  
TMV 1: Tanzania Maize Variety 1  
White Flint  
Based on CIMMYT/IITA breeding population 11  
(includes East African material and “La revolution” from Madagascar)  
Intermediary maturity: 110 days  
Resistant to MSV and rust  
Suitable <1500 masl  
Achievable yield: 4.5 tons/ha |
| TAN250 | Tanseed International | TAN 250 is based on CIMMYT’s ZM 401 selected for tolerance to drought and low soil fertility  
Early maturity variety  
Excellent resistance to MSV and Grey leaf spot, good resistance to Turcium leaf blight, Cob rot and Common rust  
Suitable at low to medium altitude  
Achievable yield: 3-5 tons/ha |