Participatory Demonstration of Maize (*Zea Mays* L.) Variety with its Full Packages in South Ethiopia

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respectively. Maize and sesame are widely grown in the area (Melokoza Woreda, o f ce of agriculture, 2015).

Basketo special district is one of the four special districts of South nation nationality and peoples region (SNNPR) which is located in 06º28'191" N and 36º34'968" E with an altitude ranging from 780-2200 m.a.s.l. T e total population of the district is 74,050. T e average annual rain fall of the district is 1200 mm (minimum 1000 mm and maximum 1400 mm) with minimum and maximum temperature of 15ºC and 27ºC, respectively. Maize, sesame, and sorghum are widely grown in the area (Basketo special Woreda, o f ce of agriculture, 2015) (Figure 1).

Figure 1: Administrative map of gamogofa zone.

Selection procedure

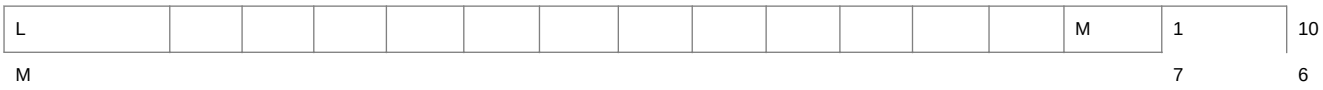
For conducting pre extension demonstration of maize technologies, two woreda (Melokoza and Basketo Special Woreda) were selected purposively. From both districts, two kebele (FTCs) and eleven host farmers (4 women headed) was selected purposively for conducting and evaluating the demonstrating plots. Bene f ciary farmers were selected based on the criteria and objective of the program (Agricultural Growth Program II, which works on agricultural technology generation and

different medias such as brochures, leafets, local TVs and radio to mass who can't participate directly.

Data collection

T e agronomic data were directly collected by researchers from the feld. Yield data were collected at the time of maturity directly from the feld and perception related data like seed emergence rate, height of the variety, resistance to disease, resistance to pest, cob size, number of

Location	Measure	Variety Name		
		BH-546	BH-547	BH-661
Phircha FTC	Qt/ha	55.5	56	50
Motikessa FTC	Qt/ha	52	54	46
Mean	Qt/ha	54	55	48
Stdv		2.5	1.4	2.8
Lsd(5%)		3.2		


L
M
1
10
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7
6

		Urea	100	1100	1100	1100
		Total	200	2350	2350	2350
5	Land preparation	Ha	ETB	600	600	600
6	Labor costs per day	Sowing	2day*5person*35birr	350	350	350
		1st & 2nd Weeding	2day*10person*35birr	700	700	700
		Fertilizer application	2day*6person*35birr	420	420	420
		Harvesting	2day*10person*35birr	700	700	700
7	Transporting and threshing Cost			1300	1300	1200
	Total costs(B)			6700		

6. CIMMYT (International Maize and Wheat Improvement Centre) (2004) Second Semi-Annual Progress Report for the QPM Development Project for the Horn and East Africa.
7. Fageria NK, Baligar VC (2005) Enhancing nitrogen use e f ciency in crop plants. Advances in Agronomy 88: 97-185.
8. CIMMYT (1988) From Agronomic Data to Farmer Recommendation: An Economics Training Manual.