

| Genotypes | Harvesting Ages (DAT) | Treatment Combinations |
|-----------|-----------------------|------------------------|
| B01 | 40 | B01*40 DAT |
| | 60 | B01*60 DAT |
| | 80 | B01*80 DAT |
| | 100 | B01*100 DAT |
| B04 | 40 | B04*40 DAT |
| | 60 | B04*60 DAT |
| | 80 | B04*80 DAT |
| | 100 | B04*100 DAT |
| B05 | 40 | B05*40 DAT |
| | 60 | B05*60 DAT |
| | 80 | B05*80 DAT |
| | 100 | B05*100 DAT |

Appendix Table 1: Treatment combinations for the experiment conducted in 2017 at Wondo Genet Agricultural Research Center (WGARC). DAT=Days after transplanting.

| SOV | DF | PH | PBPP | SBPP | LA |
|--------|----|----------|----------|------------|---------------|
| REP | 2 | 5.94 | 3.01 | 31.99 | 2140.54 |
| G | 2 | 188.34** | 14.20** | 4166.17** | 2732754.29** |
| HA | 3 | 840.06** | 100.13** | 35405.87** | 27936597.89** |
| G*HA | 6 | 14.51ns | 7.34ns | 225.21ns | 121964.06** |
| Error | 22 | 8.89 | 0.59 | 90.88 | 6002.76 |
| CV (%) | | 7.04 | 9.10 | 8.90 | 2.39 |

Appendix Table 2: Analysis of variance for effect of genotypes and harvesting age on growth characters of sweet basil at Wondo Genet in 2017. ns=non-significant, *=significant at $P<0.05$, **=highly significant at $P<0.01$ probability level, CV=Coefficient of variation, SOV=Source of variation, DF=Degree of freedom, REP=Replication, G=Genotype, HA=Harvesting age, PH=Plant height, PBPP=Primary branches/plant, SSPP=Secondary branches/plant, LA=Leaf area index.

| SOV | DF | FLWPP | DLWPP | FABPP |
|--------|----|-------------|-----------|-------------|
| REP | 2 | 147.49 | 24.44 | 160.39 |
| G | 2 | 4741.08** | 482.04** | 2286.22** |
| HA | 3 | 153621.58** | 5788.44** | 337638.00** |
| G*HA | 6 | 4949.30** | 131.28** | 9518.17** |
| Error | 22 | 244.78 | 17.46 | 245.66 |
| CV (%) | | 6.71 | 10.60 | 4.34 |

Appendix Table 3: Analysis of variance for effect of genotypes and harvesting age on yield component traits of sweet basil at Wondo Genet in 2017. ns=non-significant, *=significant at $P<0.05$, **=highly significant at $P<0.01$ probability level, CV=Coefficient of variation, SOV=Source of variation, DF=Degree of freedom, REP=Replication, G=Genotype,

HA=Harvesting age, PH=Plant height, PBPP=Primary branches/plant, SSPP=Secondary branches/plant, FLWPP=Fresh leaf weight/plant, DLWPP=Dry leaf weight/plant.

| SOV | DF | DABPP | FABPHA | DABPHA |
|--------|----|------------|----------|---------|
| REP | 2 | 30.53 | 0.28 | 0.05 |
| G | 2 | 797.08** | 3.97** | 1.38** |
| HA | 3 | 18100.99** | 586.18** | 31.43** |
| G*HA | 6 | 304.21** | 16.52** | 0.53** |
| Error | 22 | 18.10 | 0.43 | 0.03 |
| CV (%) | | 6.48 | 5.64 | 7.22 |

Appendix Table 4: Analysis of variance for effect of genotypes and harvesting age on yield component traits of sweet basil at Wondo Genet in 2017. ns=non-significant, *=significant at $P<0.05$, **=highly significant at $P<0.01$ probability level and CV=Coefficient of variation, SOV=Source of variation, DF=Degree of freedom, REP=Replication, G=Genotype, HA=Harvesting age, DABPP=Dry aboveground biomass/plant, FABPHA=Fresh aboveground biomass/ha, DABPHA=Dry aboveground biomass/ha.

| SOV | DF | FHYPHA | DHYPHA |
|--------|----|----------|---------|
| REP | 2 | 0.26 | 0.04 |
| G | 2 | 8.23** | 0.84** |
| HA | 3 | 266.70** | 10.05** |
| G*HA | 6 | 8.59** | 0.23** |
| Error | 22 | 0.42 | 0.03 |
| CV (%) | | 5.25 | 11.81 |

Appendix Table 5: Analysis of variance for the effect of genotypes and harvesting age on yield component traits of sweet basil at Wondo Genet in 2017. ns=non-significant, *=significant at $P<0.05$, **=highly significant at $P<0.01$ probability level, CV=Coefficient of variation, SOV=Source of variation, DF=Degree of freedom, REP=Replication, G=Genotype, HA=Harvesting age, FHYPHA=Fresh herbage yield/ha, DHYPHA=Dry herbage yield/ha, EOC=Essential oil content, EOYPHA=Essential oil yield /ha.