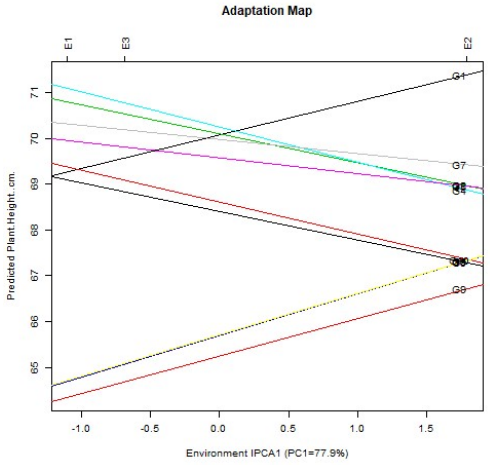
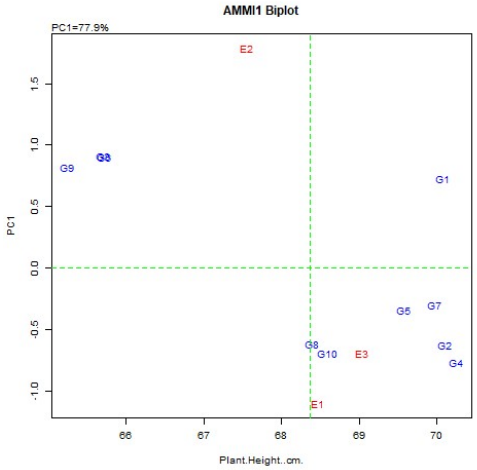
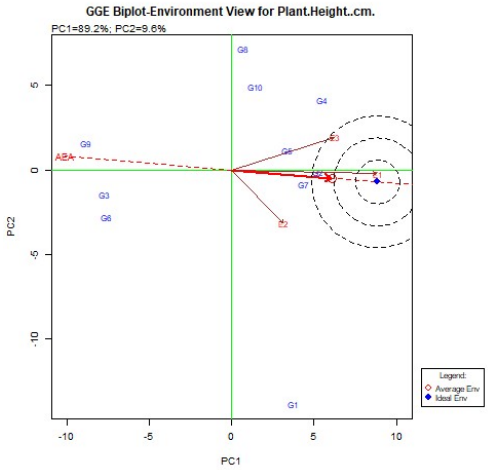
## Supplementary material



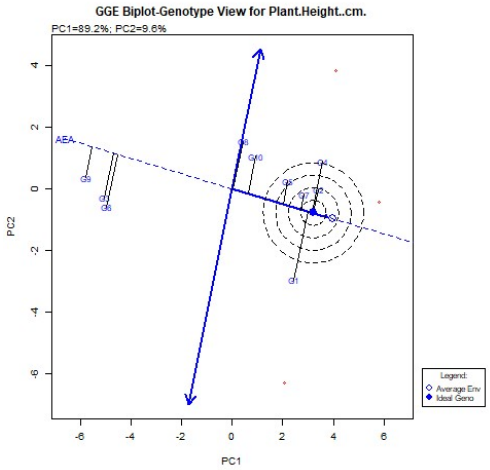

(**a**)



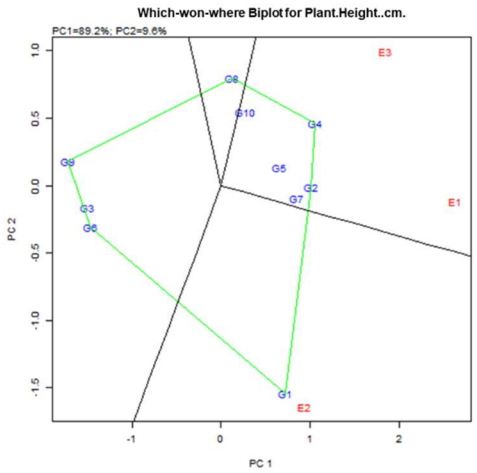

(**b**)




(**c**)

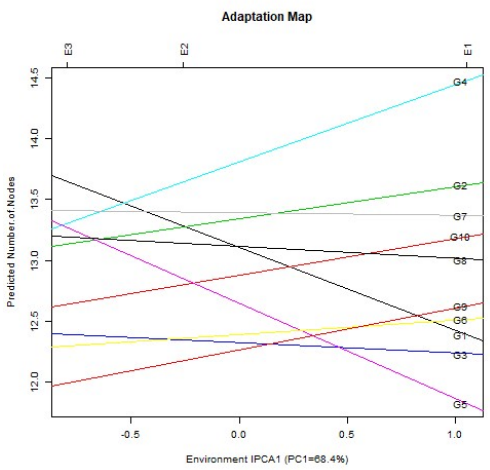



(**d**)

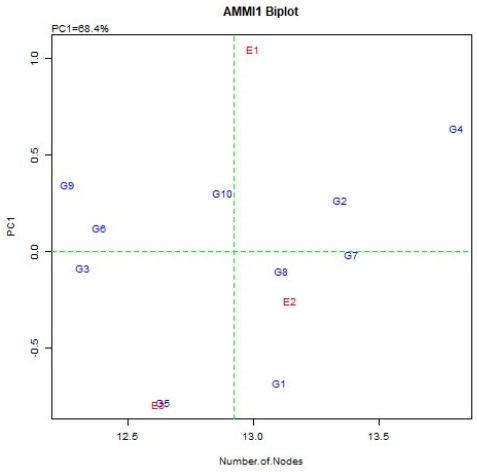



(**e**)

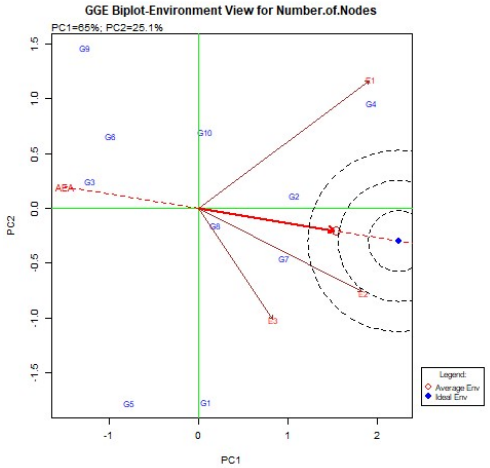
**Figure S1**. Plant height (cm) stability analysis, based on (a) AMMI adaptation map; (b) AMMI1 biplot; (c) Environmental stability GGE biplot; (d) Genotypic stability GGE biplot; (e) Which-won-where GGE biplot for specific adaptability of genotypes over environments. The genotypes closer to the ideal genotype are the desirable.



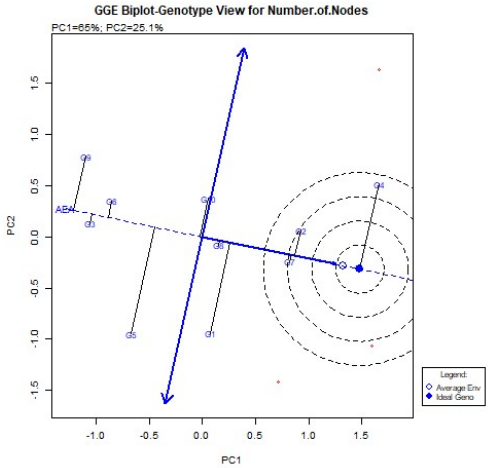

(a)



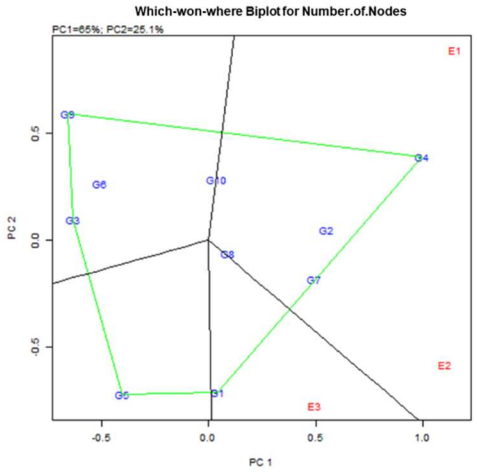

(b)




(c)

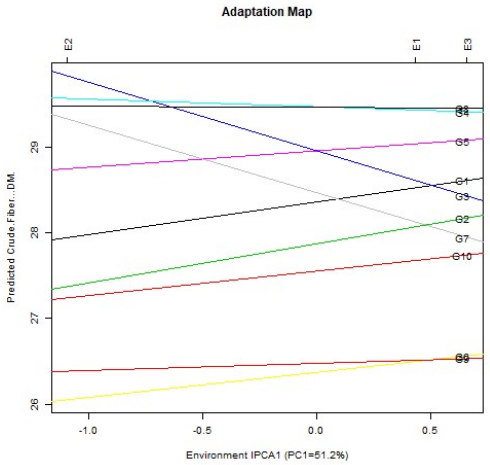



(d)

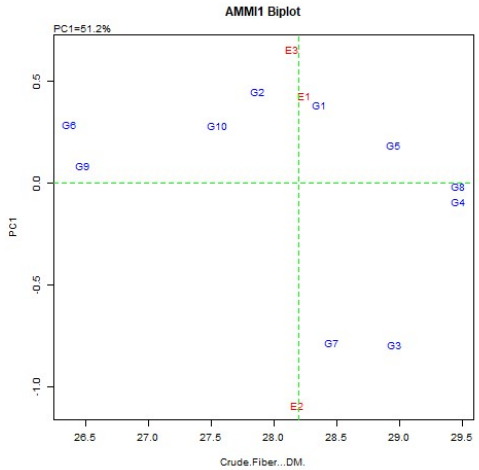


(**e**)

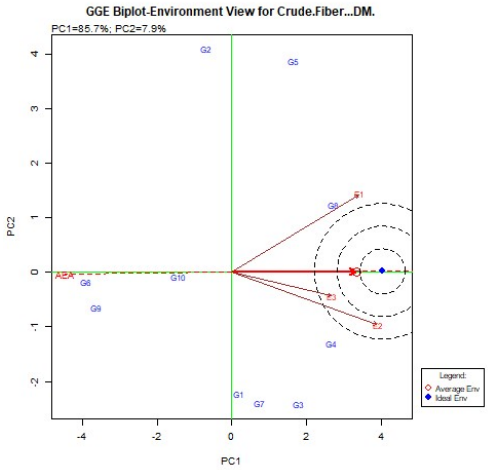
**Figure S2**. Number of nodes stability analysis, based on (a) AMMI adaptation map; (b) AMMI1 biplot; (c) Environmental stability GGE biplot; (d) Genotypic stability GGE biplot; (e) Which-won-where GGE biplot for specific adaptability of genotypes over environments. The genotypes closer to the ideal genotype are the desirable.



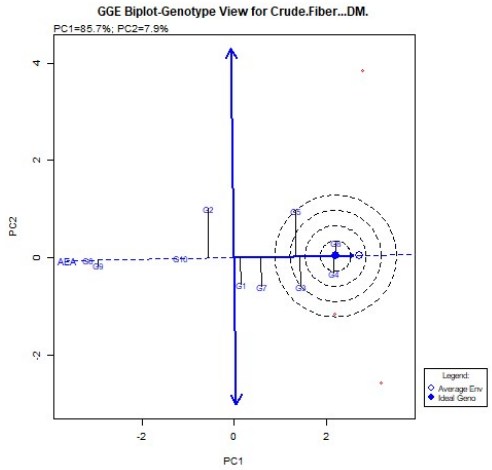

(**a**)



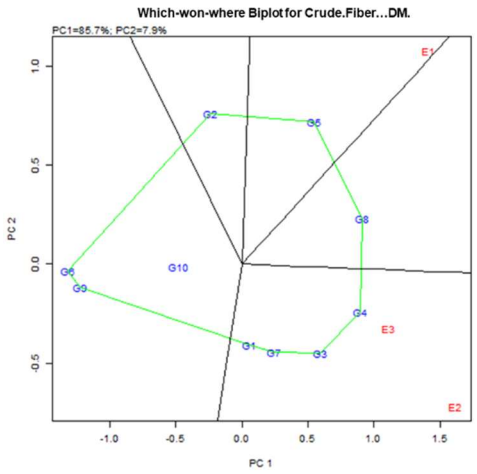

(**b**)




(**c**)

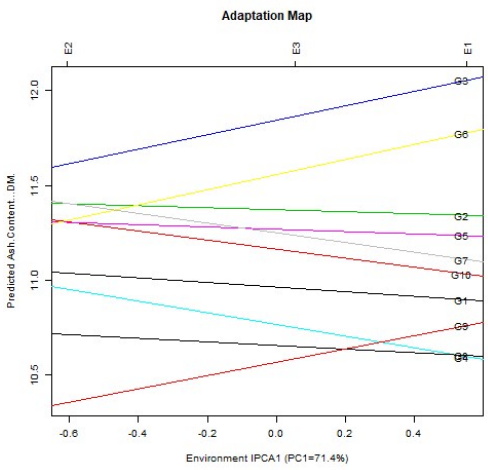



(**d**)

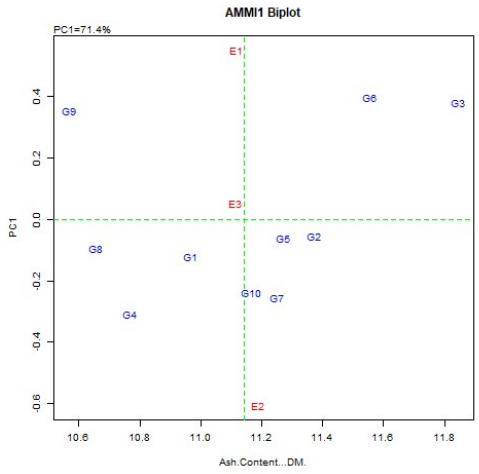



(**e**)

**Figure S3**. Crude fiber content (%DM) stability analysis, based on (a) AMMI adaptation map; (b) AMMI1 biplot; (c) Environmental stability GGE biplot; (d) Genotypic stability GGE biplot; (e) Which-won-where GGE biplot for specific adaptability of genotypes over environments. The genotypes closer to the ideal genotype are the desirable.




(**a**)




(**b**)

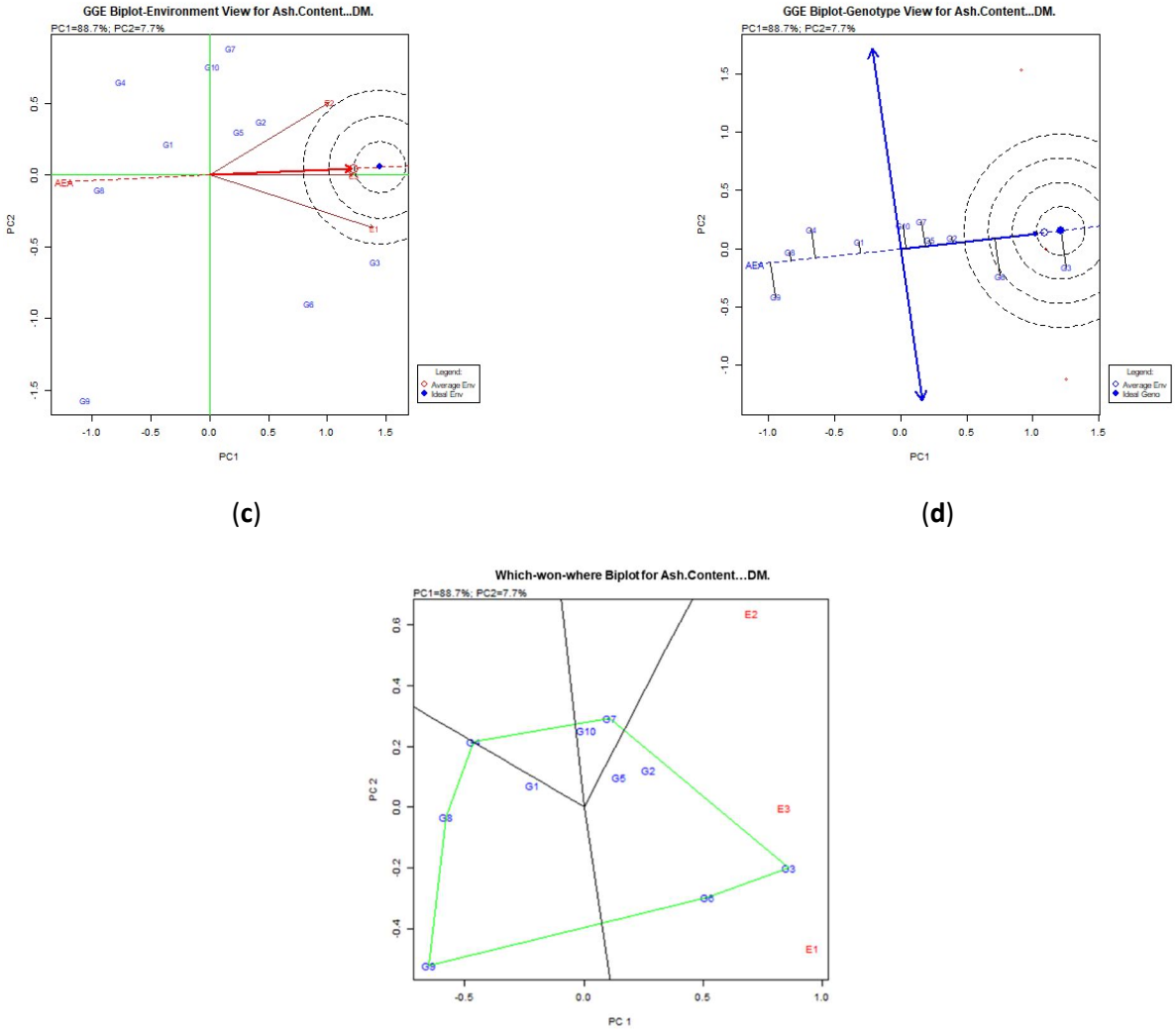



**Figure S4**. Ash content (%DM) stability analysis, based on (a) AMMI adaptation map; (b) AMMI1 biplot; (c) Environmental stability GGE biplot; (d) Genotypic stability GGE biplot; (e) Which-won-where GGE biplot for specific adaptability of genotypes over environments. The genotypes closer to the ideal genotype are the desirable.