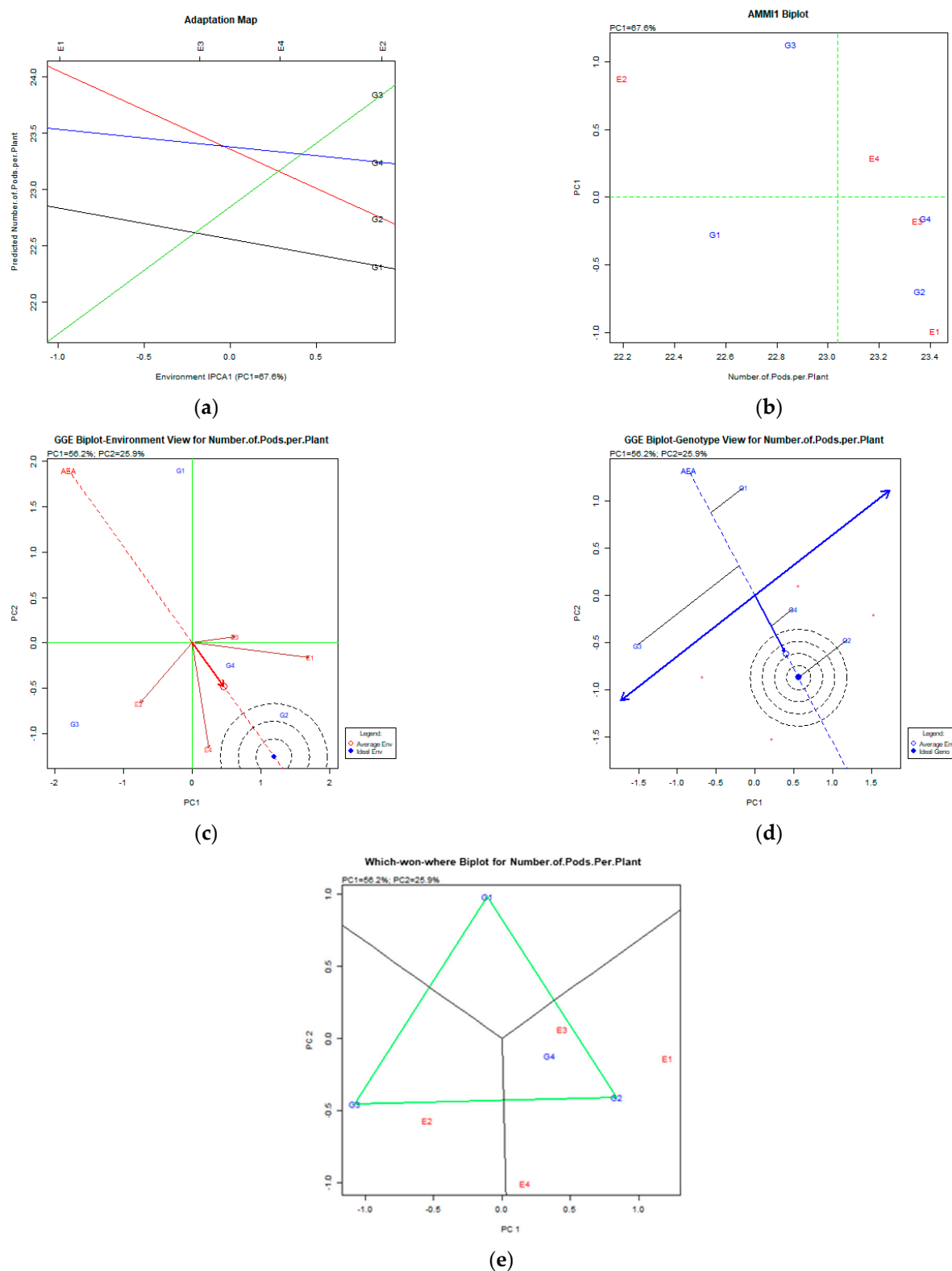
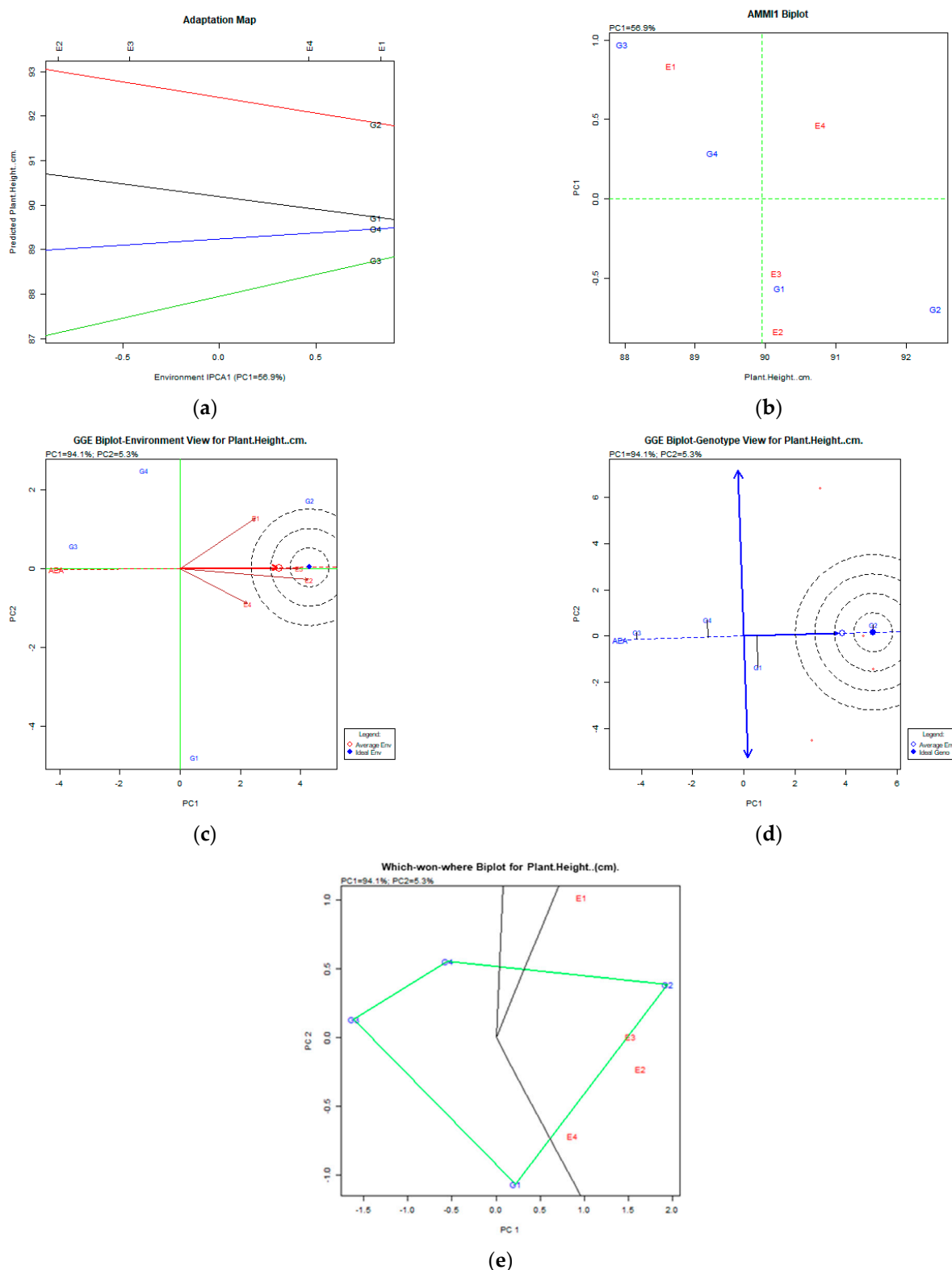


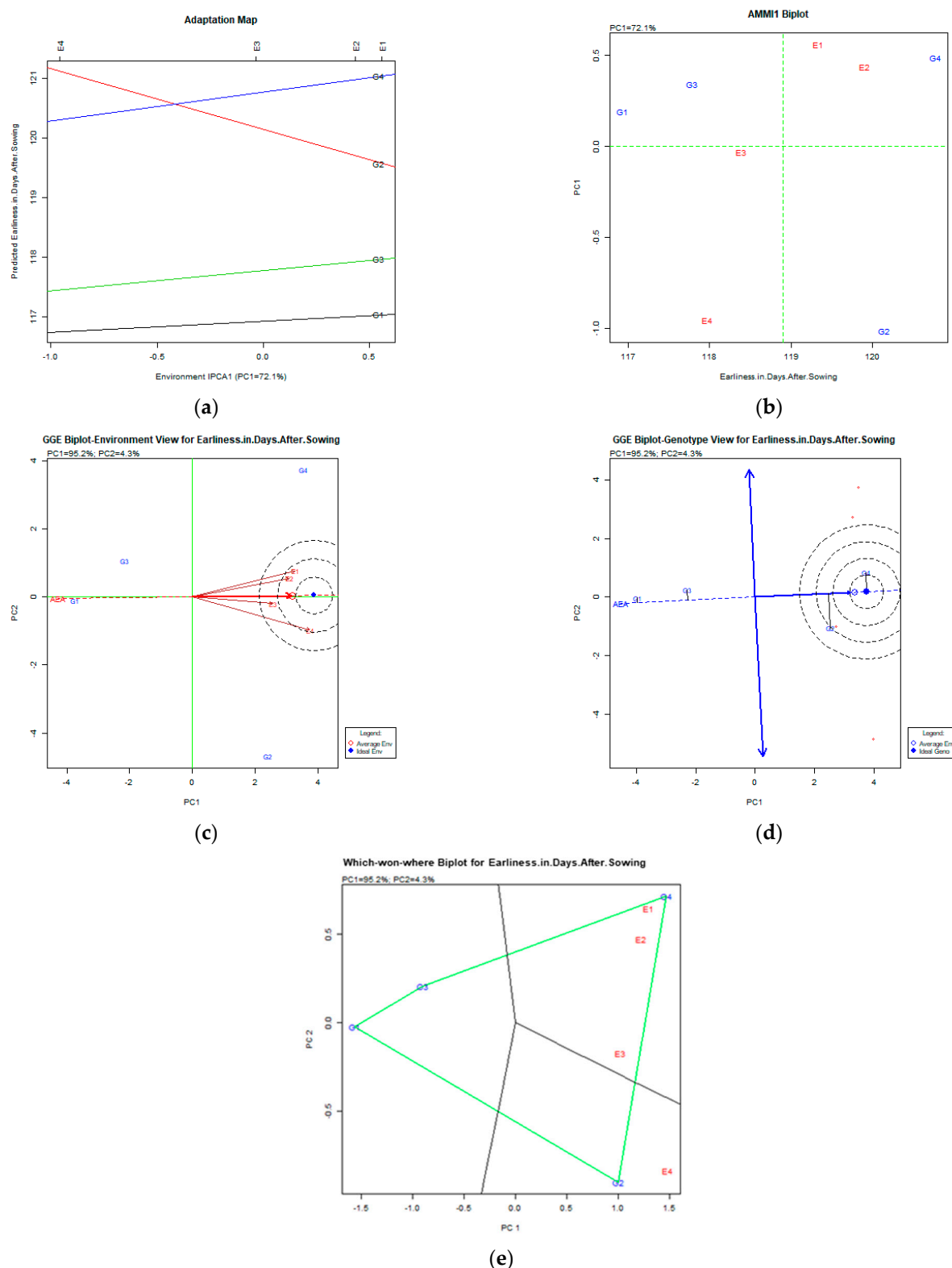
Supplementary Figure S1. Thousand seed weight (g) stability analysis based on (a) AMMI adaptation map; (b) AMMI1 biplot; (c) Environmental stability GGE biplot; (d) Genotypic stability GGE biplot. The genotypes closer to the ideal genotype are the desirable. (e) Which-won-where GGE biplot for specific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



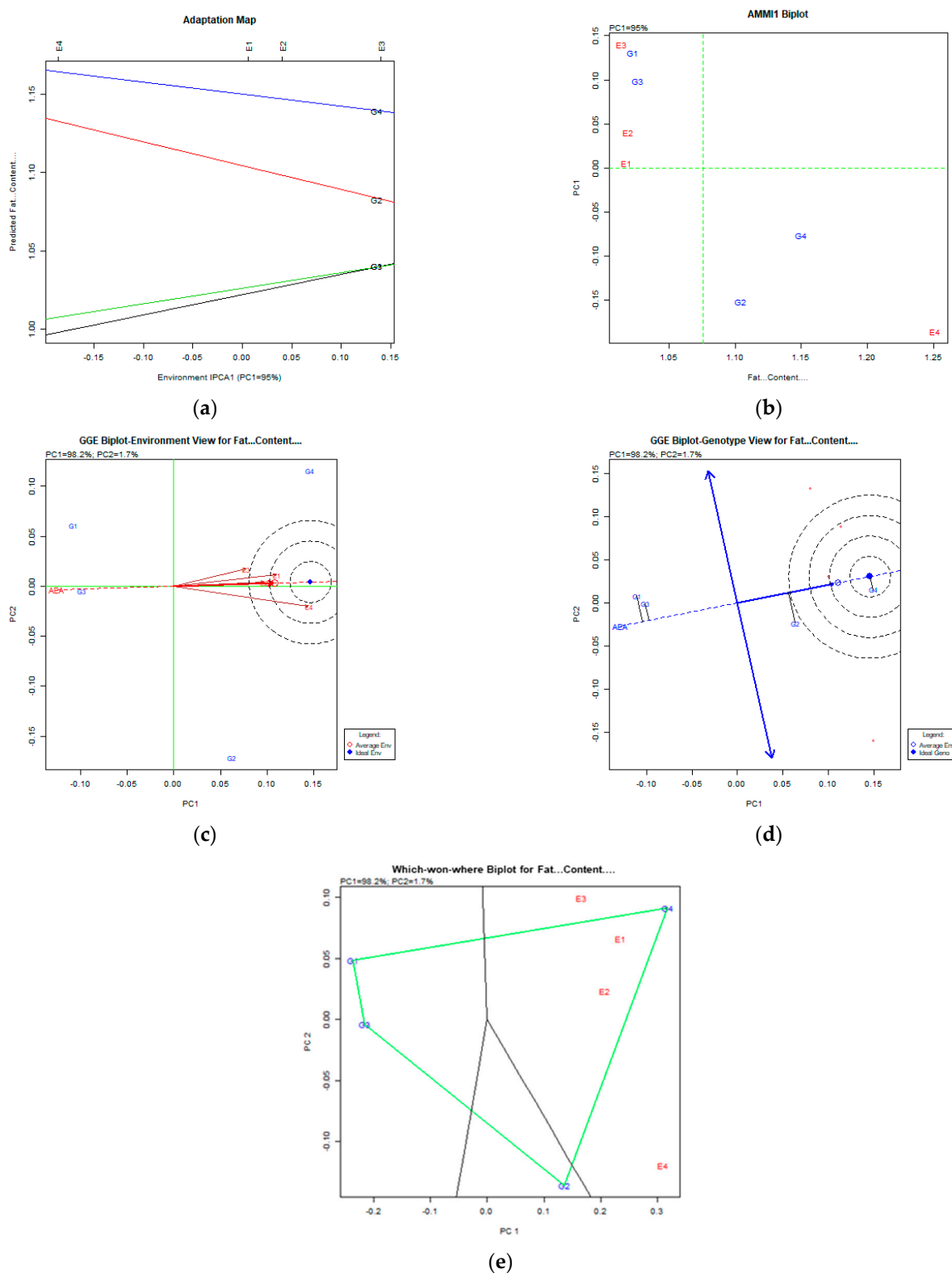
Supplementary Figure S2. Number of pods per plant stability analysis based on (a) AMMI adaptation map; (b) AMMI1 biplot; (c) Environmental stability GGE biplot; (d) Genotypic stability GGE biplot. The genotypes closer to the ideal genotype are the desirable. (e) Which-won-where GGE biplot for specific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



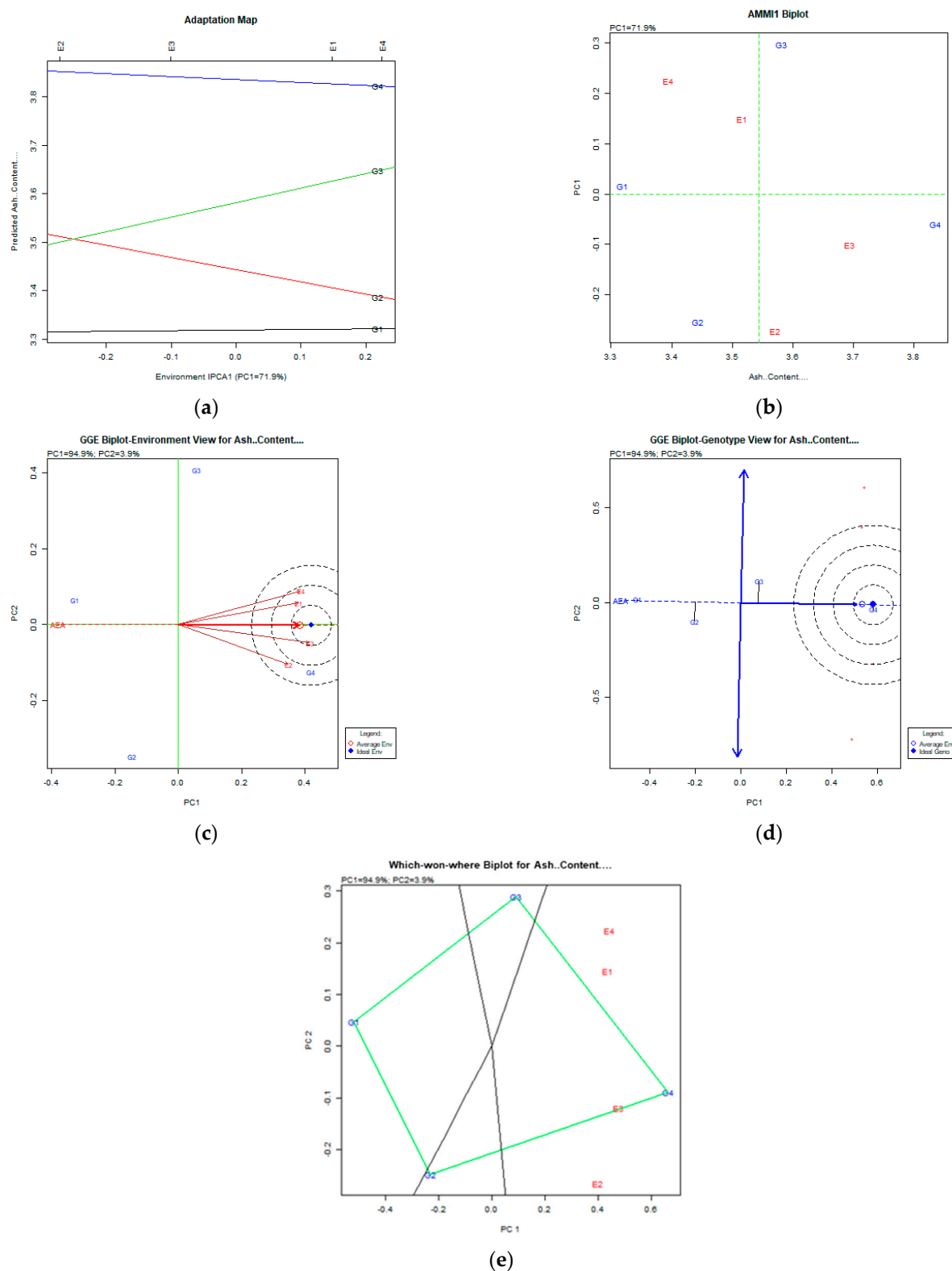
Supplementary Figure S3. Plant height (cm) stability analysis, based on (a) AMMI adaptation map; (b) AMMI1 biplot; (c) Environmental stability GGE biplot; (d) Genotypic stability GGE biplot. The genotypes closer to the ideal genotype are the desirable. (e) Which-won-where GGE biplot for specific adaptability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



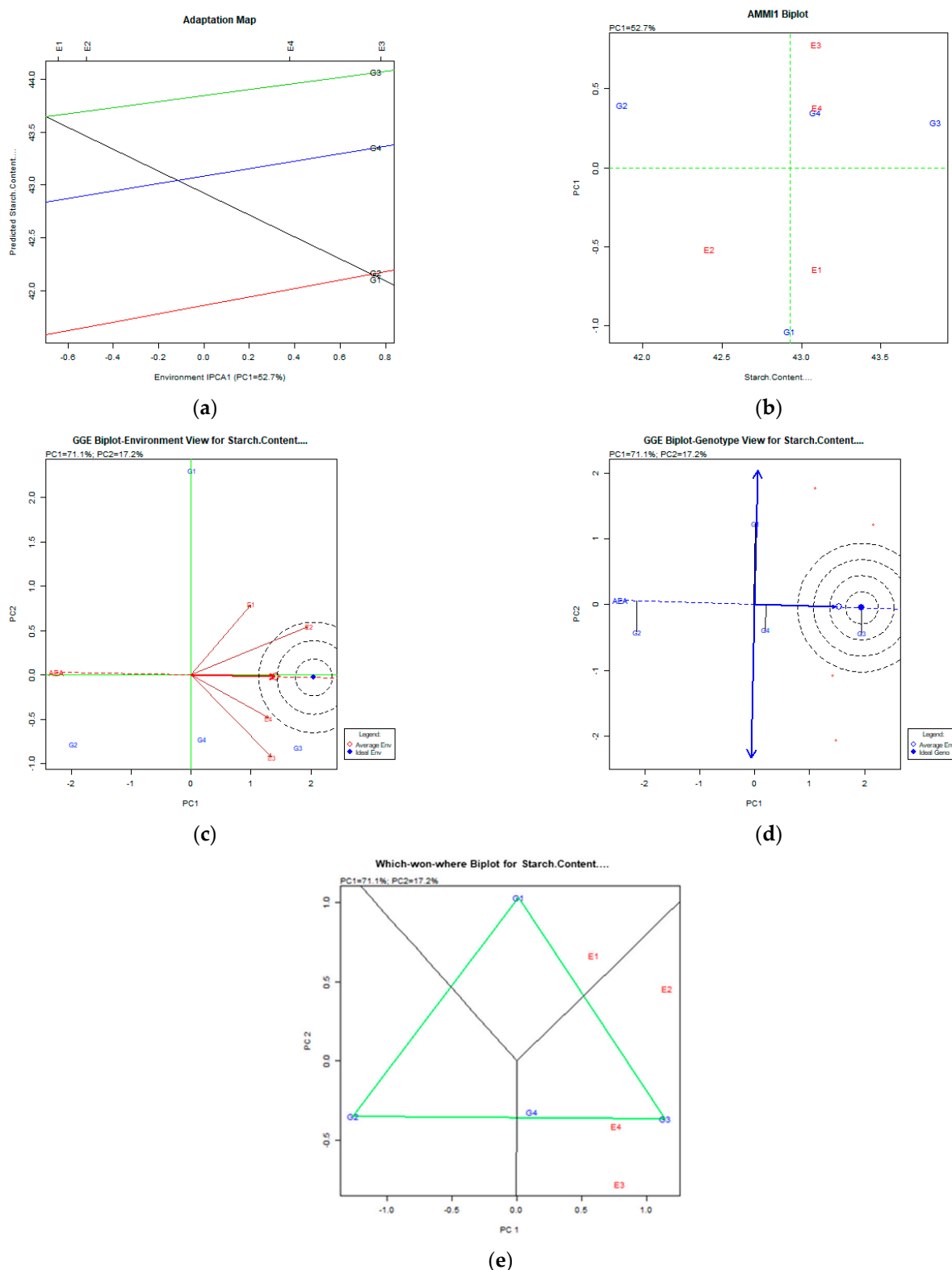
Supplementary Figure S4. Earliness in days after sowing stability analysis based on (a) AMMI adaptation map; (b) AMMI1 biplot; (c) Environmental stability GGE biplot; (d) Genotypic stability GGE biplot. The genotypes closer to the ideal genotype are the desirable. (e) Which-won-where GGE biplot for specific adaptability of genotypes over environments.



Supplementary Figure S5. Fat content (%) stability analysis, based on (a) AMMI adaptation map; (b) AMMI1 biplot; (c) Environmental stability GGE biplot; (d) Genotypic stability GGE biplot. The genotypes closer to the ideal genotype are the desirable. (e) Which-won-where GGE biplot for specific adaptability of genotypes over environments.



Supplementary Figure S6. Ash content (%) stability analysis based on (a) AMMI adaptation map; (b) AMMI1 biplot; (c) Environmental stability GGE biplot; (d) Genotypic stability GGE biplot. The genotypes closer to the ideal genotype are the desirable. (e) Which-won-where GGE biplot for specific adaptability of genotypes over environments.



Supplementary Figure S7. Starch content (%) stability analysis based on (a) AMMI adaptation map; (b) AMMI1 biplot; (c) Environmental stability GGE biplot; (d) Genotypic stability GGE biplot. The genotypes closer to the ideal genotype are the desirable. (e) Which-won-where GGE biplot for specific adaptability of genotypes over environments.

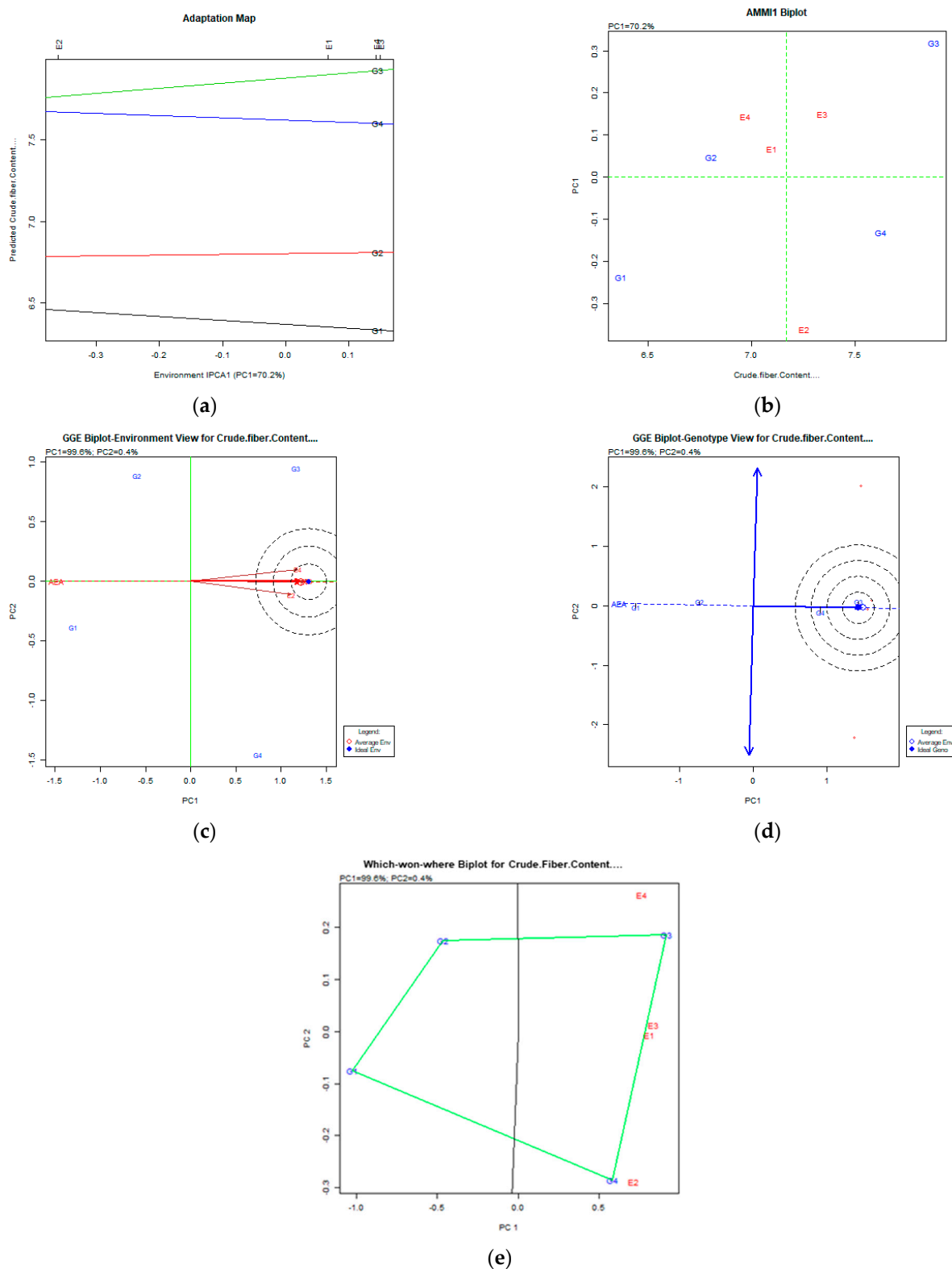
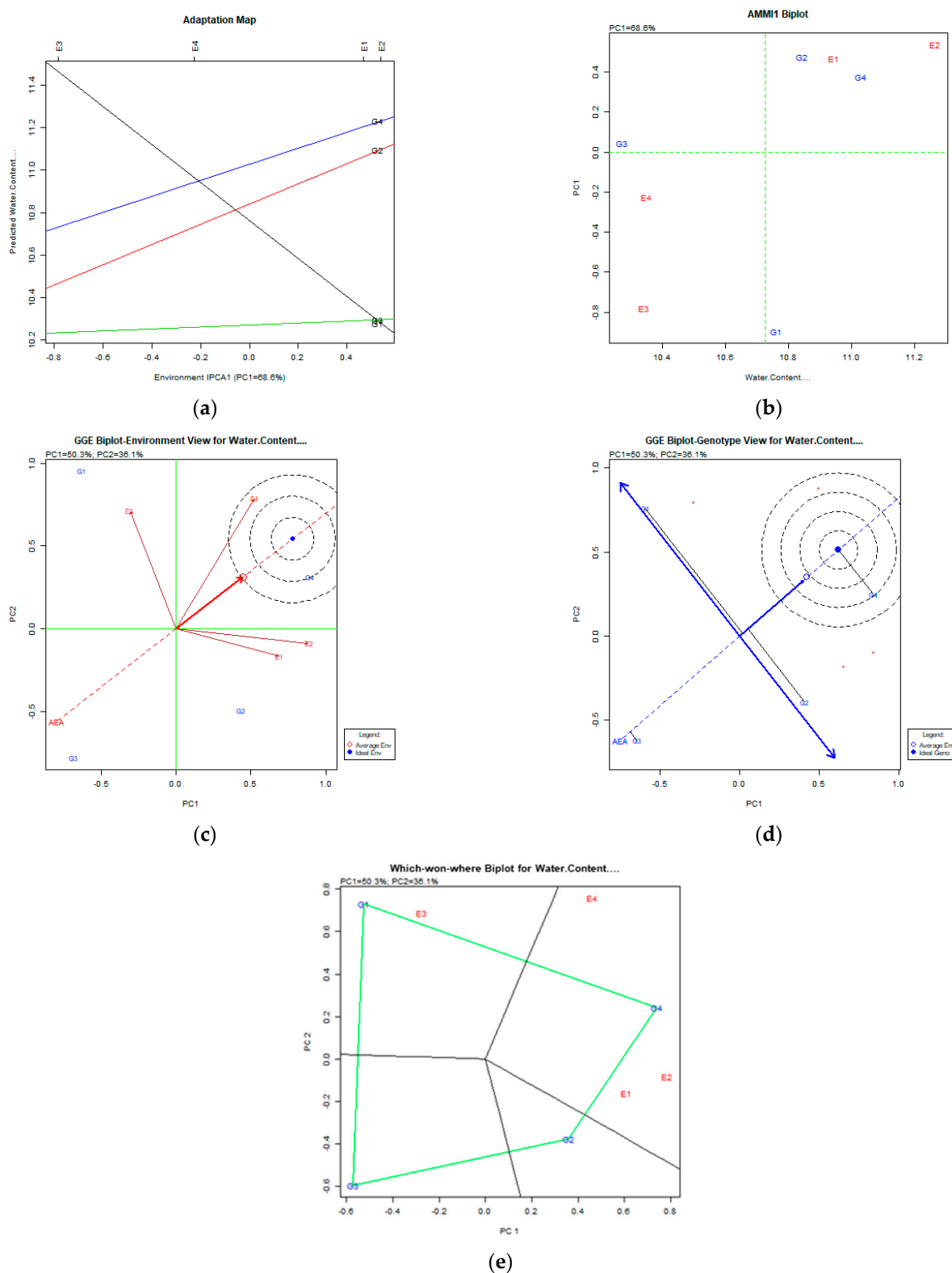


Figure Supplementary S8. Crude fiber content (%) stability analysis based on (a) AMMI adaptation map; (b) AMMI1 biplot; (c) Environmental stability GGE biplot; (d) Genotypic stability GGE biplot. The genotypes closer to the ideal genotype are the desirable. (e) Which-won-where GGE biplot for specific adaptability of genotypes over environments.



Supplementary Figure S9. Water content (%) stability analysis based on (a) AMMI adaptation map; (b) AMMI1 biplot; (c) Environmental stability GGE biplot; (d) Genotypic stability GGE biplot. The genotypes closer to the ideal genotype are the desirable. (e) Which-won-where GGE biplot for specific adaptability of genotypes over environments.