Figure 11: Effect of AM fungi on % mortality in *Tagetes erecta* and *Callistephus chinensis* plants raised in agriculture and alkaline/sodic soils of Phulpur, Allahabad amended with gypsum, *Cynodon*, farm yard manure, fly ash (40 t/ha) and inoculated with consortium of AM fungi, PSF (*Aspergillus niger*) and N\textsubscript{2} fixer (*Azotobacter chroococcum*) under microplot conditions
**Figure 14:** Effect of AM fungi on shoot growth of *Tagetes erecta* and *Callistephus chinensis* plants raised in agriculture and alkaline/sodic soils of Phulpur, Allahabad amended with gypsum, *Cynodon*, farm yard manure, fly ash (40 t/ha) and inoculated with consortium of AM fungi, PSF (*Aspergillus niger*) and N$_2$ fixer (*Azotobacter chroococcum*) under microplot conditions.
Figure 13: Effect of AM fungi on root growth of *Tagetes erecta* and *Callistephus chinensis* plants raised in agriculture and alkaline/sodic soils of Phulpur, Allahabad amended with gypsum, *Cynodon*, farm yard manure, fly ash (40 t/ha) and inoculated with consortium of AM fungi, PSF (*Aspergillus niger*) and N\textsubscript{2} fixer (*Azotobacter chroococcum*) under microplot conditions.
Figure 15: Effect of AM fungi on number of buds and flowers of *Tagetes erecta* and *Callistephus chinensis* plants raised in agriculture and alkaline/sodic soils of Phulpur, Allahabad amended with gypsum, *Cynodon*, farm yard manure, fly ash (40 t/ha) and inoculated with consortium of AM fungi, PSF (*Aspergillus niger*) and N$_2$ fixer (*Azotobacter chroococcum*) under microplot conditions.
FLOWER GROWTH

Figure 16: Effect of AM fungi on flower growth of *Tagetes erecta* and *Callistephus chinensis* plants raised in agriculture and alkaline/sodic soils of Phulpur, Allahabad amended with gypsum, *Cynodon*, farm yard manure, fly ash (40 t/ha) and inoculated with consortium of AM fungi, PSF (*Aspergillus niger*) and N\textsubscript{2} fixer (*Azotobacter chroococcum*) under microplot conditions.
PERIOD OF BUDDING AND FLOWERING

**Tagetes erecta**

**Callistephus chinensis**

**Figure 17:** Effect of AM fungi on reduction in number of days in the period of budding and flowering of *Tagetes erecta* and *Callistephus chinensis* plants raised in agriculture and alkaline/sodic soils of Phulpur, Allahabad amended with gypsum, *Cynodon*, farm yard manure, fly ash (40 t/ha) and inoculated with consortium of AM fungi, PSF (*Aspergillus niger*) and N$_2$ fixer (*Azotobacter chroococcum*) under microplot conditions.
**Figure 18:** Effect of AM fungi on keeping quality of flowers of *Tagetes erecta* and *Callistephus chinensis* plants raised in agriculture and alkaline/sodic soils of Phulpur, Allahabad amended with gypsum, *Cynodon*, farm yard manure, fly ash (40 t/ha) and inoculated with consortium of AM fungi, PSF (*Aspergillus niger*) and N\textsubscript{2} fixer (*Azotobacter chroococcum*) under microplot conditions.
Figure 19: Effect of AM fungi on photosynthetic pigments of Tagetes erecta and Callistephus chinensis plants raised in agriculture and alkaline/sodic soils of Phulpur, Allahabad amended with gypsum, Cynodon, farm yard manure, fly ash (40 t/ha) and inoculated with consortium of AM fungi, PSF (Aspergillus niger) and N₂ fixer (Azotobacter chroococcum) under microplot conditions.
**PROTEIN AND PROLINE CONTENT**

**Figure 20:** Effect of AM fungi on total protein and proline content of *Tagetes erecta* and *Callistephus chinensis* plants raised in agriculture and alkaline/sodic soils of Phulpur, Allahabad amended with gypsum, *Cynodon*, farm yard manure, fly ash (40 t/ha) and inoculated with consortium of AM fungi, PSF (*Aspergillus niger*) and N$_2$ fixer (*Azotobacter chroococcum*) under microplot conditions.
Figure 21: Effect of AM fungi on ascorbic acid content and catalase activity of *Tagetes erecta* and *Callistephus chinensis* plants raised in agriculture and alkaline/sodic soils of Phulpur, Allahabad amended with gypsum, Cynodon, farm yard manure, fly ash (40 t/ha) and inoculated with consortium of AM fungi, PSF (*Aspergillus niger*) and \(\text{N}_2\) fixer (*Azotobacter chroococcum*) under microplot conditions.
Figure 12: Effect of AM fungi on mycorrhizal intensity in the roots and AMF spore population in the rhizospheric soil of *Tagetes erecta* and *Callistephus chinensis* plants raised in agriculture and alkaline/sodic soils of Phulpur, Allahabad amended with gypsum, *Cynodon*, farm yard manure, fly ash (40 t/ha) and inoculated with consortium of AM fungi, PSF (*Aspergillus niger*) and N$_2$ fixer (*Azotobacter chroococcum*) under microplot conditions.