

APPENDIX G.1. COMPARING TOTAL EMISSION REDUCTION SCORES FOR ALL DAIRIES.

A comparative assessment of all dairy Emission Reduction Scores more clearly defined the cumulative impact of BMP implementation across the board. The Overall Impact on Target Pollutant Emission Reduction chart below shows the total (all dairies combined) emission reduction for each pollutant based on the BMPs which were implemented in all the dairies. Ammonia and odor were the target pollutants most significantly impacted by BMP implementation at 23 and 24 percent, respectively. The Systemic Contributions to Total Emission Reduction chart shows that Land Application was the system which contributed most to total emission reduction, followed by Housing – Drylot Pens. This means that the BMPs implemented in those systems contributed the most to total emission reduction overall.

Figure 1. Overall Impact on Target Pollutant Emission Reduction

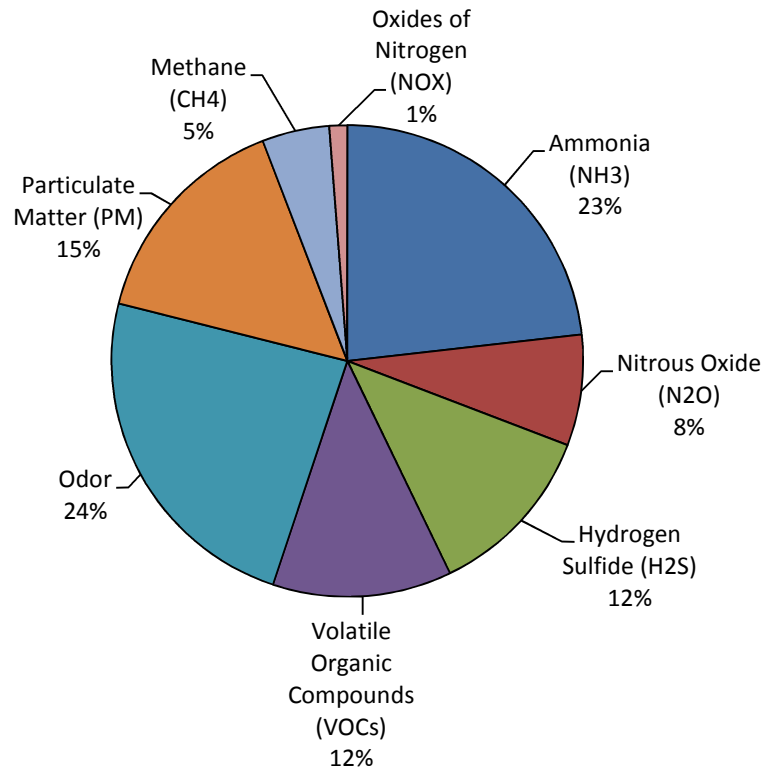
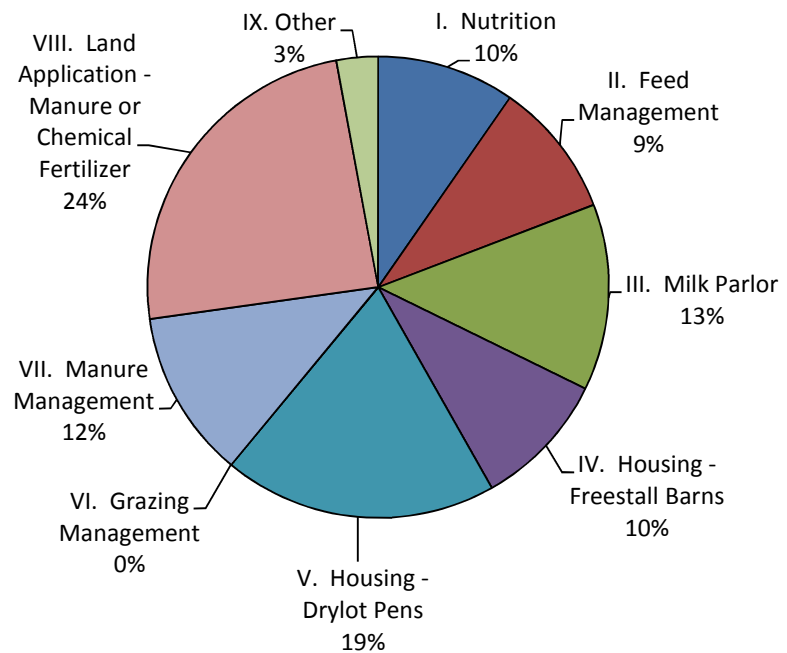


Figure 2. Contributions by System



APPENDIX G.2. COMPARING INDIVIDUAL DAIRY EMISSION REDUCTION SCORES BY SYSTEM.

Emission Reduction Scores for each participating dairy are separated below into the individual systems inspected. These Emission Reduction Scores represent the percent reduction of air pollutant emissions based on the level of implementation of BMPs on each dairy and a weighting factor. As shown below, each dairy scored differently depending on the BMPs they had implemented and the scores ranged from 60 to 100% for each pollutant. The score sheet used for calculating these scores is provided in Appendix F.

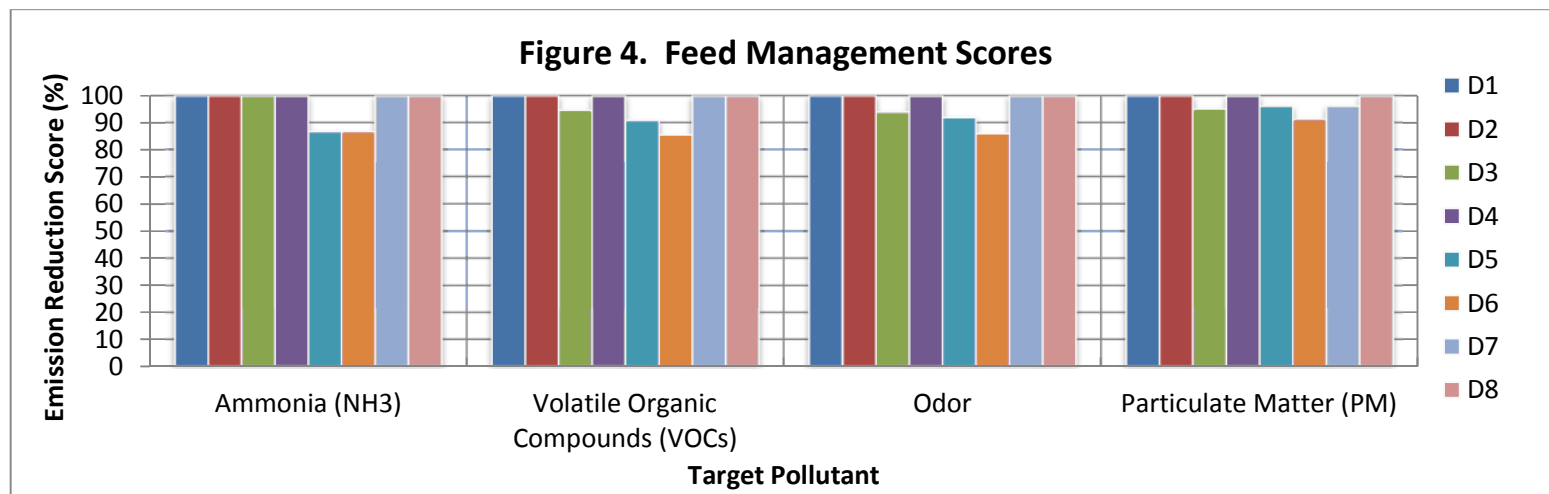
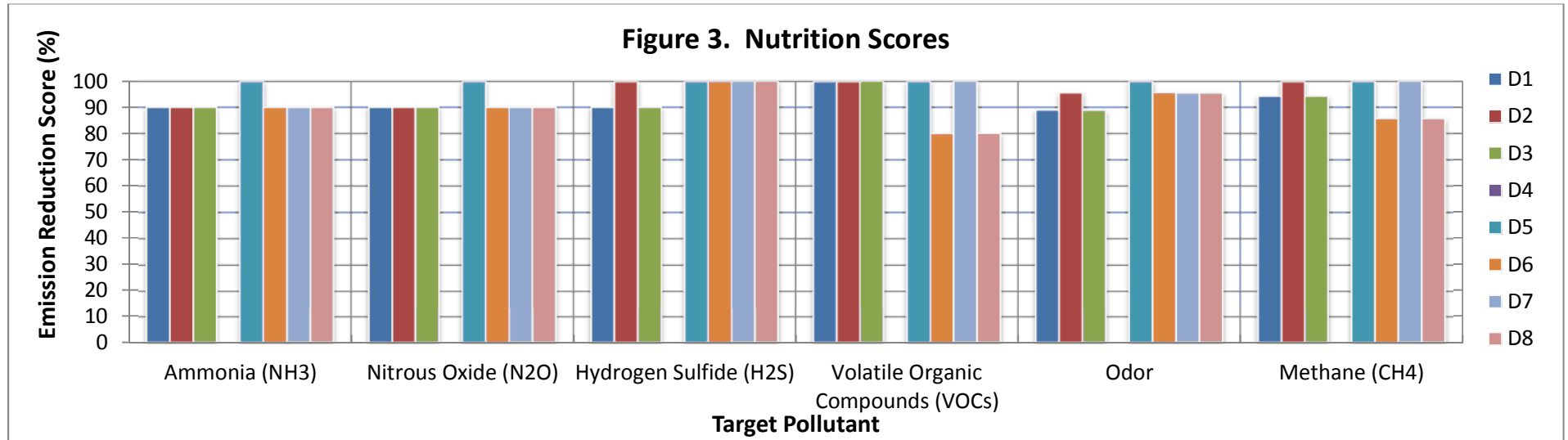


Figure 5. Housing - Drylot Pen Scores

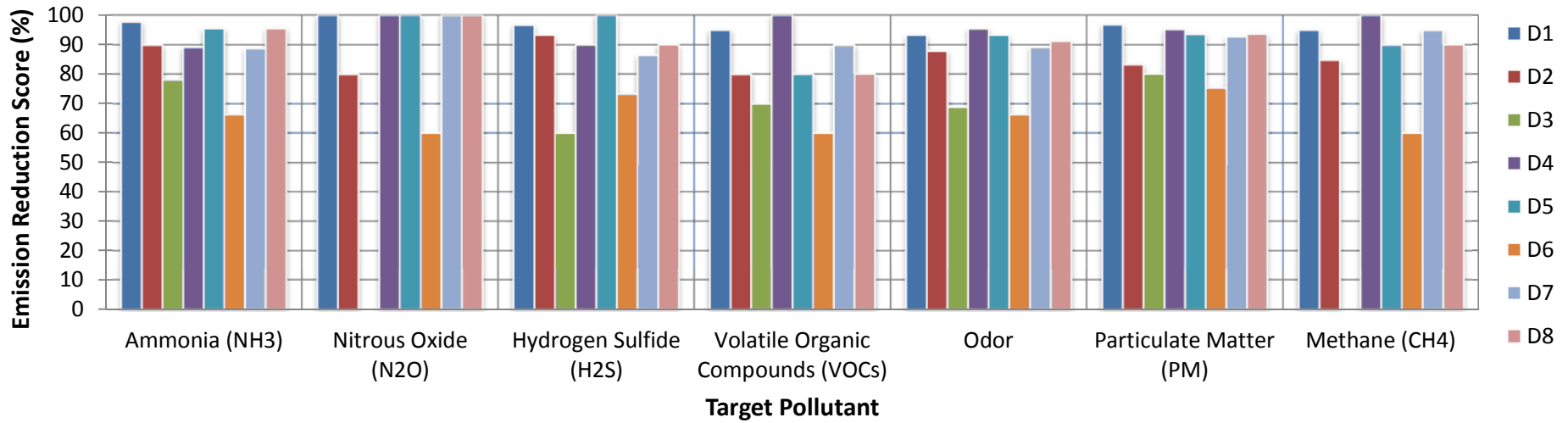


Figure 6. Housing - Freestall Barn Scores

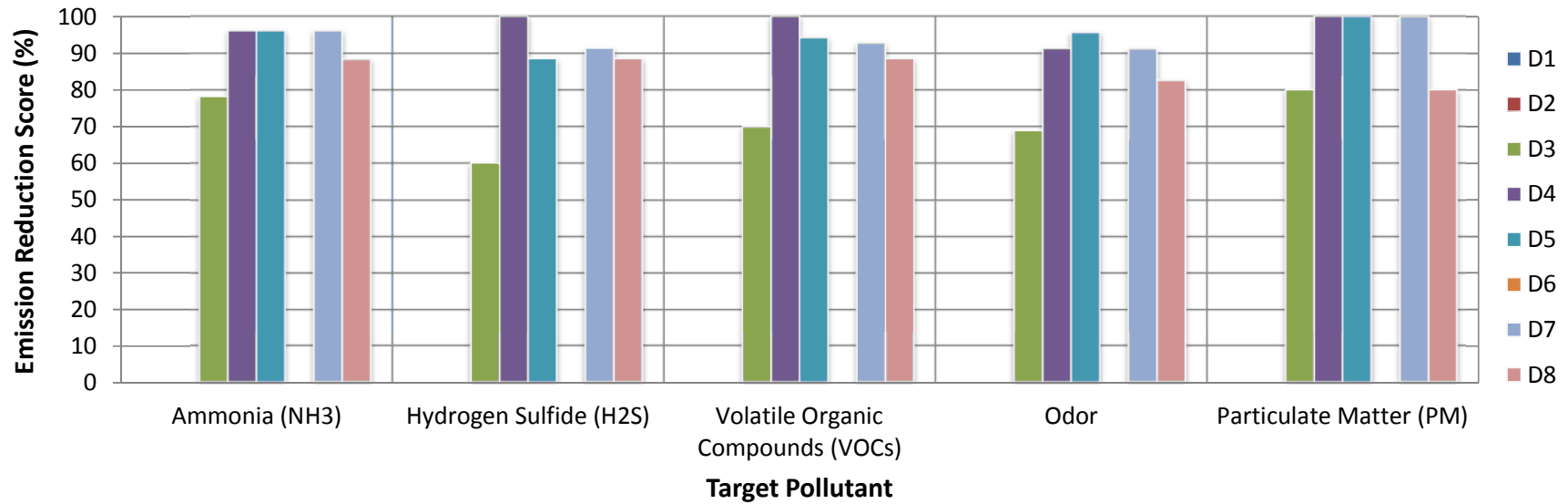


Figure 7. Manure Management Scores

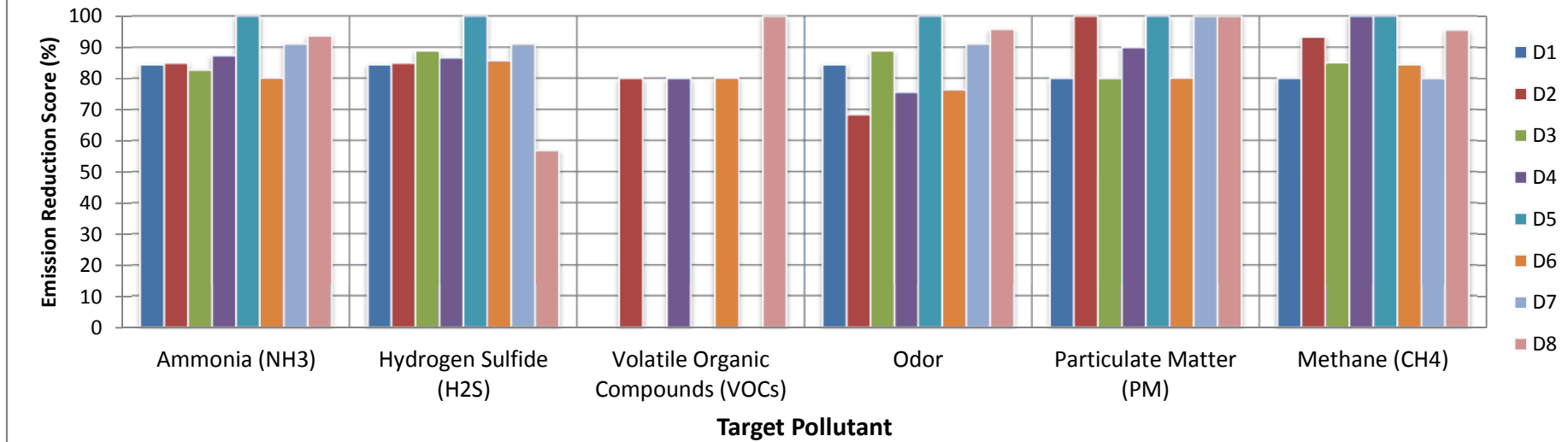


Figure 8. Land Application - Manure or Chemical Fertilizer Scores

