

# Cold temperate dry grassland



**GRASSLAND OF INNER MONGOLIA**  
BY .SHIZHAO.[PUBLIC DOMAIN], VIA WIKIMEDIA COMMONS

## Vegetation

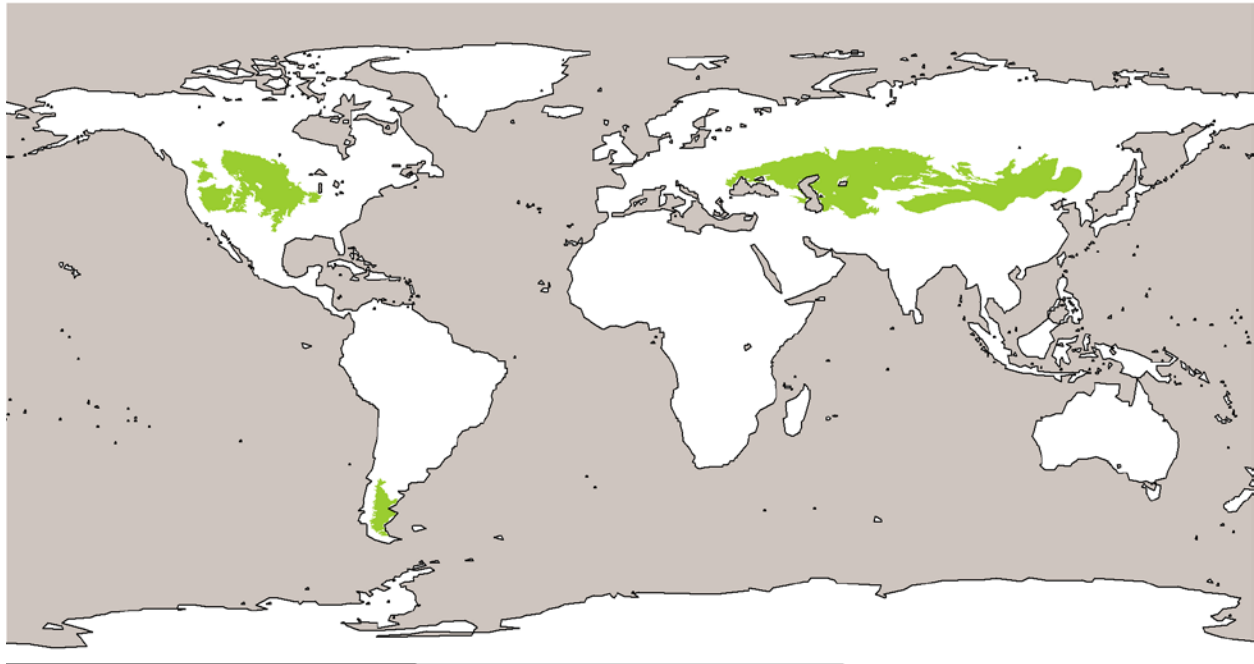
Cold temperate dry grasslands are dominated by grass.

## Climate

Cold temperate dry grasslands are found in relatively dry, cold temperate climates.

### Potential Distribution

This distribution map illustrates the climate zones in which this ecosystem type occurs, with stippled areas indicating climate zones where it is rare. It is not present in all parts of its climatic range.



## Climate regulation value

The average greenhouse gas value for ecosystems of this type is 142 metric tons CO<sub>2</sub>-equivalents per hectare over a 50 year time frame (t CO<sub>2</sub>-eq ha<sup>-1</sup> 50 yrs<sup>-1</sup>). This includes 102 t CO<sub>2</sub>-eq ha<sup>-1</sup> 50 yrs<sup>-1</sup> from storage of organic matter that would result in greenhouse gas release if cleared and 40 t CO<sub>2</sub>-eq ha<sup>-1</sup> 50 yrs<sup>-1</sup> from ongoing greenhouse gas exchange between the ecosystem and the environment.

When biophysical effects are taken into account, the average climate regulation value for ecosystems of this type is 4 metric tons CO<sub>2</sub>-equivalents per hectare (t CO<sub>2</sub>-eq ha<sup>-1</sup> 50 yrs<sup>-1</sup>). This is a 98% decrease relative to the value based on greenhouse gas regulation alone.

Considering an average car, emitting 1.1 lb CO<sub>2</sub> per mile driven, clearing 100 square feet (9.3 m<sup>2</sup>) of this ecosystem type would, on average, be equivalent to driving 264 miles/425 km (counting greenhouse gasses only). Counting biophysical effects, clearing the vegetation would be equivalent to driving 6.4 miles/10.4 km.