# COMPARISON

# Managed Goat Grazing/Re-seeding - Goats vs Chemicals

©Lani Malmberg 2016 **Goats Chemicals**

|  |  |  |
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| Addresses the problem (don’t chase symptoms) | **YES** | **NO** |
| Increases soil water holding capacity | **YES** | **NO** |
| Increases soil organic matter | **YES** | **NO** |
| Self-propelled Equipment | **YES** | **NO** |
| Tillage action on soil: aeration, churning | **YES** | **NO** |
| Selective for plant species | **YES**  | **YES+/-** |
| Builds soil nutrition | **YES** | **NO** |
| Augments soil microbes and microbial activity | **YES** | **NO** |
| Recycles existing plant materials on-site | **YES** | **NO** |
| Moves Plant succession forward | **YES** | **NO** |
| Can be applied any season of the year | **YES** | **NO** |
| Safe for ALL Living things | **YES** | **NO** |
| Builds a self-sustaining plant community | **YES** | **NO** |
| Keeps fungi:bacteria ratio 1:1 for grassland health | **YES** | **NO** |
| Increases plant species diversity | **YES** | **NO** |
| Favorable publicity for treatment methods | **YES** | **NO** |
| Recycles nutrients to available form for plants | **YES** | **NO** |
| Can be applied in rain, snow, wind (20-40-80 mph) | **YES** | **NO** |
| Protects soil by covering with mulch/fertilizer | **YES** | **NO** |
| Irrigation with nitrogen included | **YES** | **NO** |
| Prepared seed bed (fertilizer, irrigation, aeration) | **YES** | **NO** |
| Packs seedbed after all ingredients applied | **YES** | **NO** |
| Total reclamation time takes 3-5 years | **YES** | **NO** |
| Soil erosion mitigation by herd action/hoof action | **YES** | **NO** |
| Automatic calibrating equipment  | **YES** | **NO** |
| Focus is on Living entities | **YES** | **NO** |
| Treatments NOT dependent on Ambient temperature | **YES** | **NO** |
| Treatment Nurtures the entire system | **YES** | **NO** |
| Typically subject to Human ERROR | **NO** | **YES** |