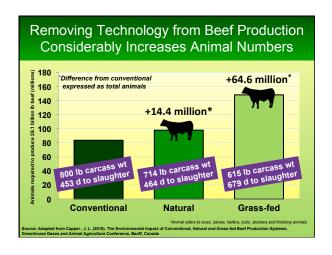
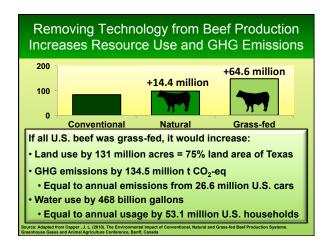
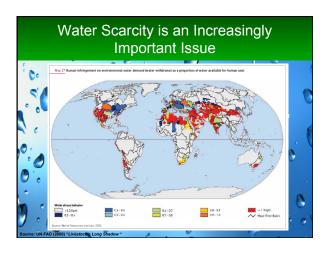


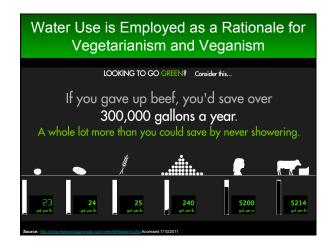


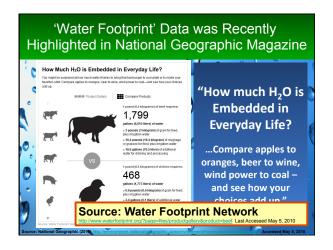
Consumers Have Three Production System Choices When Buying Beef Conventional: ✓ Extensive pasture-based system until weaning (7 mo) ✓ Animals enter feedlot either at weaning (calf-fed) or 12 mo of age (yearling-fed) ✓ Production-enhancing technology* used in each sector Natural: ✓ Identical to 'conventional' system but productionenhancing technologies are not used Grass-fed: ✓ Extensive pasture-based system from birth to slaughter ✓ Production-enhancing technologies are not used *Technologies included in model: ionophores, implants, MGA, β-agonists



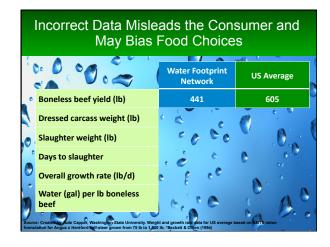


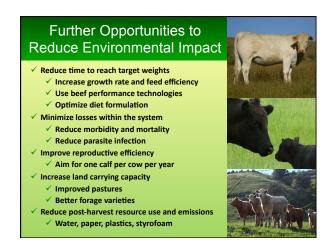
















Conclusions ✓ Every production system has its niche ✓ The livestock industry must demonstrate dedication to reducing its carbon footprint in order to maintain social license to operate and remain viable ✓ Productivity is a key factor in reducing the carbon footprint of livestock production ✓ Environmental impact must be assessed using sound science rather than ideological principles and "touchy-feely" thought processes

