ooperative Extension Sy

Andron is transferred to and rom teneartshatmos pere in a continuous per. O

Carbon Sequestration... What's That?

Randy Brooks

² and ter gases that natu ray or in tenatmostere after solar raidtion and refetcit held o earth is avons tenstface of ten earthands referred o as tergreen base effet in the out is effet, or tenet of babt. Express F or a verage.

arbn seeştration essentialy spinging parbin idvielemissions it/brees and ter parts agars to be simple ommon sense apoabo terbinate cisis. Enarbin yes tertrenye of ife. Every ife form everye based n arbn. arbn is stored in arbn sink. Arbn sinks efined is a poess or an attive that removes a greenbase gas Q_{2} from tenatmostere. Arbn socce is a poess or attiv ity that poes a greenbase gas. Amostericonentrations of O_{2} an ebbere doeiter reining emissions or backing O_{2} outof tenatmostere and storing it in terrestrial canior frestater ecosystems. Enfact that every temperarily thoust tengoRecent discussions have centered on the need for methods to track, map, and calculate carbon emissions, and account for worldwide land use and management. Such a system would be the foundation of a market-based system for trading standardized, certified, and internationally recognized carbon sequestration credits. Much of the work to establish a trading system has been done. What remains is for agencies, industry, and institutions to agree to final protocols. Then governments must recognize these credit certification systems.

Carbon offset credits could initially be offered at wholesale levels for \$6 per ton, of which \$3 would go to the landowner/manager for production of the credit. Three dollars would go to certifying and monitoring the credit for its life span to ensure the carbon was actually being stored. Actual market price would be determined by supply and demand. For example, a typical acre of mature mixed conifer forest in the Pacific Northwest can store 1 to 4 tons of carbon annually. Under the credit system, a landowner could get \$3 to \$12 of income annually from each acre of forest for simply managing a healthy forest, other crop, or rangeland. Six dollars per ton is a legitimate incentive to US, and other developed countries, landowners and managers to produce certified carbon credits. It would also provide developing countries the ability to create a new industry to care for and profit from their lands, far beyond what was ever realized from mining their natural resources to depletion. For all countries, the credit system would provide incentives and profit

This information first appeared in Woodland NOTES, Vol. 12, No. 2.

down to the individual land user to promo.01eu prvidual 2 menter 198 menter 200 and 20