

## Appendix 2: Afforestation of cropland and pasture by region, policy scenario, and carbon-payment level

Land afforested	North-east	Lake States	Corn Belt	Appalachia	South-east	Delta States	Mountain & Great Plains	Pacific	Total U.S.
<i>Million acres</i>									
<b>Scenario 1 (Rental carbon payment, net sequestration, no cost-share):</b>									
C Price=\$10:									
From cropland	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
From pasture	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total afforested	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C Price=\$25:									
From cropland	0.0	0.0	0.0	0.4	0.3	0.4	0.0	0.0	1.1
From pasture	0.0	0.0	0.0	0.0	1.9	2.2	0.0	0.0	4.1
Total afforested	0.0	0.0	0.0	0.4	2.2	2.6	0.0	0.0	5.2
C Price=\$50:									
From cropland	0.0	0.0	0.0	2.1	1.1	1.2	0.0	0.0	4.4
From pasture	0.0	0.3	0.0	5.9	10.0	8.0	0.0	0.0	24.2
Total afforested	0.0	0.3	0.0	8.0	11.1	9.2	0.0	0.0	28.6
C Price=\$75:									
From cropland	0.0	0.0	0.0	3.5	1.8	1.6	0.0	0.0	6.9
From pasture	0.0	0.8	0.8	10.6	12.4	7.7	0.0	0.0	32.3
Total afforested	0.0	0.8	0.8	14.1	14.2	9.3	0.0	0.0	39.2
C Price=\$100:									
From cropland	0.0	0.1	0.0	3.9	2.6	2.1	0.0	0.0	8.7
From pasture	0.1	2.4	1.1	10.8	13.6	7.5	0.0	4.8	40.4
Total afforested	0.1	2.5	1.1	14.7	16.2	9.6	0.0	4.8	49.1
C Price=\$125:									
From cropland	0.3	2.1	0.0	4.3	3.3	2.6	0.0	0.0	12.7
From pasture	1.2	4.1	1.4	11.0	13.6	7.4	0.0	13.2	51.9
Total afforested	1.5	6.2	1.4	15.4	16.9	10.0	0.0	12.2	64.6
<b>Scenario 2 (Asset carbon payment, net sequestration, no cost-share):</b>									
C Price=\$10:									
From cropland	0.0	0.0	0.0	0.6	0.4	0.6	0.0	0.0	1.7
From pasture	0.0	0.0	0.0	0.0	3.0	3.7	0.0	0.0	6.7
Total afforested	0.0	0.0	0.0	0.6	3.4	4.3	0.0	0.0	8.4
C Price=\$25:									
From cropland	0.0	0.0	0.0	3.4	1.7	1.6	0.0	0.0	6.6
From pasture	0.0	0.7	0.0	10.7	12.1	7.8	0.0	0.0	31.2
Total afforested	0.0	0.7	0.0	14.1	13.8	9.4	0.0	0.0	37.8
C Price=\$50:									
From cropland	0.3	2.1	0.0	4.6	3.8	2.9	0.0	0.0	13.8
From pasture	1.6	4.8	1.5	11.1	13.6	7.4	0.0	18.7	58.6
Total afforested	1.9	6.9	1.5	15.7	17.4	10.3	0.0	18.7	72.4
C Price=\$75:									
From cropland	0.4	2.3	0.0	5.9	5.2	4.3	0.0	0.0	18.1
From pasture	2.6	7.5	3.2	11.1	13.6	6.6	0.0	42.9	87.5
Total afforested	3.0	9.8	3.2	17.0	18.8	10.9	0.0	42.9	105.6

Continued--

**Appendix 2: Afforestation of cropland and pasture by region, policy scenario, and carbon-payment level—Continued**

Land afforested	North-east	Lake States	Corn Belt	Appalachia	South-east	Delta States	Mountain & Great Plains	Pacific	Total U.S.
<i>Million acres</i>									
<b>Scenario 2 (Full carbon payment, net sequestration, no cost-share):--continued</b>									
C Price=\$100:									
From cropland	0.6	3.0	0.0	7.1	5.8	5.9	0.0	0.0	22.5
From pasture	4.7	7.5	7.5	11.2	13.6	6.1	0.0	54.8	105.4
Total afforested	5.3	10.5	7.5	18.3	19.4	12.0	0.0	54.8	127.9
C Price=\$125:									
From cropland	1.2	3.7	0.0	8.4	6.1	8.0	0.0	0.0	27.4
From pasture	4.7	7.5	11.3	11.0	13.6	3.1	0.0	54.8	106.1
Total afforested	5.9	11.2	11.3	19.4	19.7	11.1	0.0	54.8	133.5
<b>Scenario 3 (Rental carbon payment, net sequestration, with cost-share):</b>									
C Price=\$10:									
From cropland	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1
From pasture	0.0	0.0	0.0	0.0	0.0	2.8	0.0	0.0	2.9
Total afforested	0.0	0.0	0.0	0.0	0.1	2.8	0.0	0.0	3.0
C Price=\$25:									
From cropland	0.0	0.0	0.0	0.9	0.5	0.7	0.0	0.0	2.1
From pasture	0.0	0.0	0.0	1.4	5.1	8.4	0.0	0.0	14.9
Total afforested	0.0	0.0	0.0	2.3	5.6	9.1	0.0	0.0	17.0
C Price=\$50:									
From cropland	0.0	0.0	0.0	2.6	1.3	1.2	0.0	0.0	5.0
From pasture	0.0	0.3	0.0	9.9	11.3	7.9	0.0	0.0	29.5
Total afforested	0.0	0.3	0.0	12.5	12.6	9.1	0.0	0.0	34.5
C Price=\$75:									
From cropland	0.0	0.0	0.0	3.5	2.0	1.6	0.0	0.0	7.1
From pasture	0.1	0.9	1.0	10.6	13.2	7.5	0.0	0.0	33.3
Total afforested	0.1	0.9	1.0	14.1	15.2	9.1	0.0	0.0	40.4
C Price=\$100:									
From cropland	0.3	0.6	0.0	3.9	2.8	2.1	0.0	0.0	9.7
From pasture	0.5	1.8	1.2	10.6	13.6	7.4	0.0	10.6	45.7
Total afforested	0.8	2.4	1.2	14.5	16.4	9.5	0.0	10.6	55.4
C Price=\$125:									
From cropland	0.3	2.1	0.0	4.3	3.5	2.6	0.0	0.0	12.8
From pasture	1.3	3.1	1.4	10.8	13.6	7.1	0.0	18.9	56.3
Total afforested	1.6	5.2	1.4	15.1	17.1	9.7	0.0	18.9	69.2
<b>Scenario 4 (Rental carbon payment, gross sequestration, no cost-share):</b>									
C Price=\$10:									
From cropland	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
From pasture	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total afforested	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C Price=\$25:									
From cropland	0.0	0.0	0.0	0.4	0.3	0.4	0.0	0.0	1.1
From pasture	0.0	0.0	0.0	0.0	1.9	2.2	0.0	0.0	4.1
Total afforested	0.0	0.0	0.0	0.4	2.2	2.6	0.0	0.0	5.2

Continued--

**Appendix 2: Afforestation of cropland and pasture by region, policy scenario, and carbon-payment level—Continued**

Land afforested	North-east	Lake States	Corn Belt	Appalachia	South-east	Delta States	Mountain & Great Plains	Pacific	Total U.S.
<i>Million acres</i>									
<b>Scenario 4 (Rental carbon payment, gross sequestration, no cost-share):--continued</b>									
C Price=\$50:									
From cropland	0.0	0.0	0.0	2.1	1.1	1.2	0.0	0.0	4.4
From pasture	0.0	0.3	0.0	5.9	10.0	7.9	0.0	0.0	24.1
Total afforested	0.0	0.3	0.0	8.0	11.1	9.1	0.0	0.0	28.5
C Price=\$75:									
From cropland	0.0	0.0	0.0	3.5	1.8	1.6	0.0	0.0	6.9
From pasture	0.0	0.8	0.7	10.6	12.4	7.4	0.0	0.0	31.9
Total afforested	0.0	0.8	0.7	14.1	14.2	9.0	0.0	0.0	38.8
C Price=\$100:									
From cropland	0.0	0.1	0.0	3.9	2.6	2.1	0.0	0.0	8.7
From pasture	0.1	1.4	1.1	10.2	13.6	7.0	0.0	4.8	38.1
Total afforested	0.1	1.5	1.1	14.1	16.2	9.1	0.0	4.8	46.8
C Price=\$125:									
From cropland	0.3	2.1	0.0	4.3	3.3	2.6	0.0	0.0	12.7
From pasture	0.4	2.6	1.4	10.1	13.6	6.8	0.0	13.2	48.1
Total afforested	0.7	4.7	1.4	14.4	16.9	9.4	0.0	13.2	60.8

Source: Economic Research Service, USDA.