



1 **FIGURE 62.** An earthen and stone dam was
 2 constructed during Shartel ownership to impound
 3 Williams Branch. Source: George Washington Carver
 4 National Monument photo collection.

5 **Topographic modifications associated with**
 6 **National Park Service ownership.**

7 Topographic modifications completed during the
 8 early park development period included grading to
 9 accommodate the entrance road and parking area,
 10 the Carver Trail, the original visitor center and
 11 maintenance complex, and the housing complex.
 12 The park also graded the banks of the Carver and
 13 Williams branch stream corridors to address
 14 erosion, and placed rip rap to prevent further
 15 erosion. These modifications contribute to the
 16 significance of the park landscape.

17 Topographic modifications that postdate the
 18 period of significance include expansion of
 19 Williams Pond, grading to expand the visitor
 20 center and parking area, changes made to the
 21 Carver Trail, and mitigation of the former mine
 22 and landfill sites.

23 *Grading to accommodate the entrance road and*
 24 *parking area.* Several projects were completed at
 25 the park in 1959 and 1960 to accommodate park
 26 visitor and operational needs that required
 27 grading. The features established include the
 28 entrance road, visitor center, and housing
 29 complex. To construct the entrance road, the
 30 National Park Service established a raised
 31 corridor, edged by swales and other storm water
 32 management features (Figure 63 and Figure 64).
 33 The entrance road was carefully graded to
 34 establish a level, smooth route between Carver
 35 Road and the visitor center, although the former

36 Shartel access drive formed the basis for its layout.
 37 Initially, parking was afforded along the southern
 38 edge of the loop near the visitor center. Circa 1986,
 39 a second parking area was added to the northern
 40 section of the loop that required additional
 41 grading.



42 **FIGURE 63.** The park entrance road follows a raised
 43 corridor.



44 **FIGURE 64.** Swales and culverts convey storm water
 45 away from the entrance road.

46 *Grading to accommodate the visitor center and*
 47 *addition.* The visitor center was constructed in
 48 1960. The site was graded to create a level and
 49 welcoming approach and entrance to the building
 50 from the east. Construction of the building also
 51 included its siting into a hillside. Surviving
 52 evidence of the grading conducted to
 53 accommodate construction of the original visitor
 54 center structure contributes to the significance of
 55 the park landscape, with diminished integrity of
 56 design due to changes made to the building in
 57 2007.

58 The 2007 visitor center expansion greatly enlarged
 59 the building. New construction, however, was

1 designed to disturb as little ground as possible and
 2 required minimal grading. Work entailed
 3 establishing the foundation for the building and
 4 sculpting the landform between the expanded
 5 building and the maintenance building to create an
 6 evenly-sloped descending landform that would
 7 promote positive drainage (Figure 65). Grading
 8 between the buildings was not entirely successful;
 9 there is an isolated low spot at the southwestern
 10 corner of the visitor center where storm water
 11 collects and cannot drain. Current evidence of
 12 grading associated with the visitor center
 13 postdates the period of significance and does not
 14 contribute to the significance of the park
 15 landscape.



16 **FIGURE 65.** The expansion of the visitor center in
 17 2007 required grading between the expanded
 18 building and the maintenance building.

19 *Grading to accommodate the park housing*
 20 *complex.* As part of the early park development
 21 effort guided by Mission 66, three buildings were
 22 constructed along Carver Road to accommodate
 23 park personnel housing. These buildings generally
 24 face the public road corridor. They are accessed
 25 via a short road, edged by parking, and a looped
 26 turnaround. These features were built from a site
 27 plan that indicated grading to establish level
 28 building foundations and yards, and a smoothly
 29 sloped road corridor and parking area. The
 30 grading efforts conducted to establish this
 31 complex occurred within the early park
 32 development period of significance and contribute
 33 to the significance of the park landscape.

34 *Williams Pond enlargement and rehabilitation*
 35 *of the earthen dam.* In 1978, the National Park
 36 Service enlarged Williams Pond by excavating the
 37 impoundment area and reworking the earthen
 38 dam structure; the new dam enlarged the pond
 39 from approximately one-half to nearly three-
 40 quarters of an acre in size (Figure 66). In 1979, the
 41 National Park Service leveled the bank covering
 42 the area around the original dam. Excess sludge
 43 and dirt from the dredging project of the previous
 44 year was spread in two fields adjacent to the
 45 pond.²⁹¹ These grading efforts postdate the period
 46 of significance and do not contribute to the
 47 significance of the park landscape.



48 **FIGURE 66.** View of the earthen dam constructed
 49 across Williams Branch to create Williams Pond.

50 *Grading to construct the Carver Trail, including*
 51 *accessibility improvements.* The Carver Trail was
 52 constructed as part of the initial development of
 53 the park circa 1953. The trail was graded to
 54 establish a smooth, evenly sloped route. Portions
 55 of the trail followed the Carver Branch stream
 56 corridor. Problems quickly emerged with erosion
 57 and accessibility of the trail. In order to diminish
 58 the steepness of some slopes, and to meet
 59 universal accessibility standards, sections of the
 60 trail have been realigned to form switchbacks and
 61 follow gentler terrain, particularly along the sloped
 62 terrain north of the birthplace cabin site
 63 (Figure 67). The new trail configuration required
 64 construction of low rock retaining walls and
 65 associated grading (Figure 68). The section located
 66 near the row of replanted walnut trees has also
 67 been rerouted and re-graded to accommodate
 68 universal accessibility. These trail improvements

291. Superintendent's Annual Report, 1979.

1 postdate the period of significance. The original
 2 trail work conducted in the 1950s falls within the
 3 early park development period of significance and
 4 contribute to the significance of the park
 5 landscape.



6 **FIGURE 67.** Portions of the Carver Trail feature
 7 switchbacks to meet universal accessibility guidelines.



8 **FIGURE 68.** Low rock retaining walls and associated
 9 grading were used to support the switchbacks.

10 *Filling of the former landfill.* In 1982, a park
 11 landfill established in the 1960s was bulldozed and
 12 smoothed and the site rehabilitated.²⁹²

13 *Grading to mitigate mine site and tailings.* In
 14 2004, the National Park Service acquired title to
 15 the 30-acre parcel originally part of the Moses
 16 Carver farm, and later used for lead and zinc
 17 mining. Land disturbance associated with the mine
 18 and piled tailings was mitigated in 2006. The
 19 tailings were described in several reports as 30- to
 20 40-foot-tall piles. These features are no longer
 21 present.

22 **Contributing Topographic Modifications.**

- 23 ■ Grading to accommodate the entrance road
 24 and visitor parking area (northern)
- 25 ■ Grading to accommodate the visitor center
- 26 ■ Grading to construct the original Carver Trail
- 27 ■ Williams Pond dam
- 28 ■ Grading to accommodate the park housing
 29 complex

30 **Non-contributing Topographic
 31 Modifications.**

- 32 ■ Grading to accommodate the expanded visitor
 33 parking area
- 34 ■ Grading to accommodate universal
 35 accessibility improvements associated with the
 36 Carver Trail
- 37 ■ Grading to accommodate the visitor center
 38 expansion
- 39 ■ Excavation to expand Williams Pond and
 40 spreading of the borrow material
- 41 ■ Grading to fill the former landfill site
- 42 ■ Grading to mitigate mine site and tailings

43 **Missing Topographic Modifications.**

- 44 ■ Lead and zinc mine tailings and excavated
 45 shaft

46

292. Superintendent's Annual Report, 1982.

1 **3.3.6 Land Uses and Activities**

2 George Washington Carver National Monument
 3 is associated with several land uses and activities.
 4 These include cemetery, commemoration,
 5 commerce, interpretation/museum/education,
 6 maintenance, park administration, recreation,
 7 utility, and visitor service uses. These land uses are
 8 primarily associated with management and
 9 administration of the park, and have been present
 10 since 1960. Each is character-defining for the park
 11 landscape, and contributes to its significance. The
 12 cemetery is the only use surviving from the Carver
 13 period. Several other land uses associated with the
 14 property during Moses Carver’s ownership are no
 15 longer present, including agriculture, mineral
 16 extraction, and residential. One other land use
 17 associated with the early park development period
 18 is no longer active: park housing. Conservation
 19 efforts to restore native grassland prairie
 20 restoration constitute a non-contributing land use.

21 **Cemetery.** Located approximately 250 yards
 22 southwest of the site where Moses Carver built his
 23 log cabins stands the Carver family cemetery,
 24 established during the mid-nineteenth century.
 25 Comprised of a perimeter wall encompassing
 26 several grave sites, the cemetery extends over
 27 approximately one-tenth of an acre (Figure 69).
 28 The cemetery includes marked and unmarked
 29 graves, including those of Moses and Susan
 30 Carver. Although the cemetery was altered by the

31 Shartel family through removal of the original rock
 32 perimeter wall, the cemetery use survives from the
 33 Carver period. The cemetery is interpreted along
 34 the Carver Trail and helps to connect the property
 35 with the life of George Washington Carver, who
 36 would have known the cemetery. The cemetery
 37 land use contributes to the significance of the park
 38 landscape.

39 **Commemoration.** Commemorative land uses
 40 have been associated with the park since its
 41 establishment. The park as a whole
 42 commemorates the life and achievements of
 43 George Washington Carver. In addition to the
 44 park, two sculptural works commemorate and
 45 honor Carver within the park. These works—the
 46 George Washington Carver bust and the Boy
 47 Carver statue—date to the early park development
 48 period. Commemorative land uses thus contribute
 49 to the significance of the park landscape.

50 **Commerce.** Commercial land uses are primarily
 51 associated with the gift shop in the visitor center.
 52 These commercial uses are administered by the
 53 Carver Birthplace Association, and have been
 54 present within the park since the establishment of
 55 the first visitor center during the early park
 56 development period. The commercial land use
 57 survives from the period of significance and
 58 contributes to the significance of the park
 59 landscape.



FIGURE 69. The Carver family cemetery constitutes a cemetery land use that survives from the mid-nineteenth century.

1 **Interpretation/museum/education.**
 2 Interpretive land uses have been an essential
 3 component of the park since its earliest
 4 establishment. The Carver Trail was one of the
 5 first elements established for the enjoyment and
 6 edification of visitors. The role of interpretation
 7 has grown over the years, as have the wayside
 8 exhibits and other programs offered by the park
 9 within the visitor center and the landscape
 10 (Figure 70). Interpretive land uses survive from the
 11 period of significance and contribute to the
 12 significance of the park landscape.



13 **FIGURE 70.** Interpretive signs are located along the
 14 Carver Trail.

15 **Maintenance.** Park maintenance activities are
 16 clustered in a building and grounds complex
 17 located south of the visitor center (Figure 71). The
 18 maintenance facility was established with the
 19 visitor center in 1960. Maintenance activities have
 20 been a component of the park since its early
 21 establishment, and this land use thus contributes
 22 to the significance of the park landscape.



23 **FIGURE 71.** The maintenance yard, south of the visitor
 24 center accommodates necessary maintenance land
 25 uses.

26 **Park administration.** Park administrative
 27 offices are currently housed in the visitor center.
 28 Offices were constructed as part of the original
 29 visitor center, but moved to the housing complex
 30 while the visitor center was expanded. The offices
 31 were relocated to the expanded visitor center in
 32 2010. Park administration land uses have been a
 33 component of park operations since early park
 34 development, and continue to contribute to the
 35 significance of the park landscape today.

36 **Recreation.** Like interpretation, recreation has
 37 been a key land use of the park since its early
 38 establishment. The Carver Trail affords both
 39 recreational and interpretive opportunities, and
 40 has done so since circa 1953. This recreational
 41 land use survives from the period of significance
 42 and contributes to the significance of the park
 43 landscape.

44 **Utility.** Since the early park establishment period,
 45 utilities have been an essential component of park
 46 operations, including water, sewer, gas, telephone,
 47 refuse collection, and electrical services
 48 (Figure 72). Although the specific features built to
 49 support park utility needs have changed over time,
 50 this land use survives from the early park
 51 development period of significance and
 52 contributes to the significance of the park
 53 landscape.



54 **FIGURE 72.** Overhead electrical lines in the southwest
 55 portion of the site represent a utility land use.

56 **Visitor services.** Visitor services, such as ranger
 57 contact, restroom facilities, and drinking
 58 fountains, are afforded in the visitor center, while
 59 picnic tables and a drinking fountain are available
 60 in the picnic area near the parking area. Visitor

1 services have been part of the park since the early
2 park establishment period and remain so today. As
3 such, this land use contributes to the significance
4 of the park landscape.

5 **Agriculture.** The park was originally the site of
6 the Moses Carver farm. The Carvers settled the
7 land in 1838, the same year that Newton County
8 was formed, beginning a process of clearing and
9 cultivating crop fields, and establishing pastures
10 and orchards. The Shartels continued agricultural
11 use of the property, establishing thoroughbred
12 cattle operations. After the national monument
13 was established, fields were maintained by local
14 farmers through lease agreements. Agricultural
15 land uses were slowly discontinued after the park
16 initiated a prairie restoration program in the early
17 1980s. Nothing remains of the former fields or the
18 orchards on the property. Agricultural land uses
19 are missing from the park landscape today.

20 Farming and stock raising remain important land
21 uses within the landscape that surrounds the park.
22 The Winter family, owners of the adjacent farm,
23 were neighbors of Moses Carver. They continue to
24 operate the farm across the road. Cattle grazing
25 and other agricultural activities on lands within the
26 vicinity of the park contribute to its historic
27 setting.²⁹³

28 **Park Housing.** Housing facilities were
29 constructed as part of Mission 66 improvements
30 made within the park in the late 1950s and early
31 1960s. The three buildings, designed to
32 accommodate park personnel, were used between
33 circa 1960 and circa 1978. However, they are
34 currently unoccupied and slated for demolition.
35 The park housing land use, present during the
36 period of significance, is missing from the park
37 landscape today.

38 **Mineral extraction.** During the early- to mid-
39 twentieth century, a 30-acre portion of the original
40 Moses Carver farmstead was used to extract lead
41 and zinc from the mineral rich local geology.
42 Mining on the property continued until circa 1943.

43 This historic land use is missing within the park
44 today.

45 **Residential.** The Moses Carver family is known
46 to have resided on the Moses Carver farm during
47 much of the nineteenth century. Two additional
48 residences were present on the property during
49 the late nineteenth and early twentieth centuries.
50 These included the William and Gilmore
51 farmhouses. The property subsequently served as
52 the residence of the Shartel family. The last
53 resident of the property was a caretaker engaged
54 to oversee the property after its initial acquisition
55 by the federal government. Once the park was
56 established, residential land uses were replaced by
57 park housing; both are now missing from the park
58 landscape today.

59 **Conservation.** The Moses Carver farm
60 encompasses several natural resources of high
61 quality and value, including native plant
62 communities and water resources. Although none
63 of the plant communities are pristine examples of
64 pre-settlement vegetation, the successional
65 woodland and restored prairie are being managed
66 for natural resource values. The extensive prairie
67 restoration program initiated in the 1980s
68 constitutes a conservation land use. This use
69 postdates the period of significance and thus does
70 not contribute to the significance of the park
71 landscape.

72 **Contributing Land Uses.**

- 73 ▪ Cemetery
- 74 ▪ Commemoration
- 75 ▪ Commerce
- 76 ▪ Maintenance
- 77 ▪ Interpretive/museum/educational
- 78 ▪ Park administration
- 79 ▪ Recreation

293. Toogood, 43.

- 1 ▪ Utility
- 2 ▪ Visitor services
- 3 **Non-contributing Land Uses.**
- 4 ▪ Conservation
- 5 **Missing Land Uses.**
- 6 ▪ Agriculture
- 7 ▪ Park Housing
- 8 ▪ Mineral extraction
- 9 ▪ Residential

10

11 **3.3.7 Cultural Vegetation**

12 There are several examples of cultural vegetation
 13 presently associated with George Washington
 14 Carver National Monument that were established
 15 by the National Park Service to enhance the
 16 aesthetic and interpretive value of the park.
 17 Ornamental planting beds with trees, shrubs, and
 18 perennials at the park entrance and along the
 19 entrance road, foundation plantings around the
 20 visitor center, and planting beds edging the walks
 21 in the environs of the visitor center, are designed
 22 to enhance the appearance of the park and honor
 23 the memory of George Washington Carver
 24 (Figure 73 through Figure 76). The park has also
 25 planted native forbs along portions of the Carver
 26 Trail to contribute aesthetic and interpretive value.

27 Some of the cultural vegetation located within the
 28 park, such as walnut tree hedgerows and a
 29 demonstration garden exhibit near the Moses
 30 Carver house, is designed to recall features of the
 31 Moses Carver farm for interpretive purposes
 32 (Figure 77 and refer to Figure 55). In 1983, the
 33 park also attempted unsuccessfully to cultivate a
 34 persimmon grove to recall a favorite memory of
 35 George Washington Carver. Since the 1960s, the
 36 park has actively planted native trees, such as black
 37 walnut, oak, maple, black gum, oak, yellowwood,
 38 and Kentucky coffeetree, to replace trees lost to
 39 disease and weather events.



40 **FIGURE 73.** Ornamental planting beds along the east
 41 facade of the visitor center.



1 **FIGURE 74.** Ornamental plants along the breezeway
2 connecting the visitor center and maintenance
3 building.



4 **FIGURE 75.** An ornamental plant bed in the visitor
5 center parking lot planted by a local gardening club
6 and maintained by park personnel and volunteers.



7 **FIGURE 76.** Ornamental plant beds edged by stone
8 surrounding the brick entrance piers.



9 **FIGURE 77.** A demonstration garden exhibit in the
10 vicinity of the Moses Carver house.

11 No examples of cultural vegetation survive from
12 the period during which the Carvers owned the
13 property. Missing cultural vegetation from this
14 period includes cultivated crops, pasture grasses,
15 rows of walnut trees used as hedgerows, and a
16 large nut and fruit tree orchard thought to have
17 contained at least 520 trees by 1880. The dwelling
18 precinct is also thought to have included a kitchen
19 garden surrounded by a picket fence and a small
20 orchard. Another vegetation feature described in
21 historic accounts of the property that is now
22 missing is a black walnut tree referred to as the
23 “hanging tree” thought to have a direct connection
24 to Moses Carver. This tree was interpreted along
25 the Carver Trail when the park first opened,
26 although the tree soon died.²⁹⁴

27 The Shartel family appears to have planted the
28 grove of shade trees that edges the park entrance
29 road (refer to Figure 49). This grove has been
30 incorporated into the park experience for visitors
31 as a picnic area. The park regularly plants trees to
32 perpetuate the grove.

33 **Cultural Vegetation associated with the**
34 **Moses Carver farm.** Early settlers, like the
35 Carvers, are known to have settled in this part of
36 Missouri near fresh water sources and timber,
37 often at the junction between timber and prairie
38 land. The first crop fields were often located on
39 level terraces of creek bottomlands where flooding
40 had deposited fertile soils. To establish fields in
41 these areas, settlers first had to remove the trees
42 associated with gallery forests, often by cutting or

294. *Ibid.*, 42, 73–74.

1 girdling. The rate that settlers were able to clear
2 has been estimated at between two and three acres
3 a year.

4 There were no fence laws in place at the time, and
5 livestock were generally left to forage in the
6 woodlands and on the prairies. The young
7 offspring were often kept penned or tied near the
8 house precinct to prevent the parents from
9 wandering off too far. Rather than fence the
10 pasture land, farmers fenced their fields to exclude
11 livestock. Fences were typically constructed using
12 split rails fashioned from the most rot-resistant
13 timber, or using fieldstones removed from the
14 crop fields. This kept livestock from trampling or
15 grazing the crops.²⁹⁵ No specific evidence of the
16 cultural vegetation associated with the Moses
17 Carver farm survives today within the park.

18 *Fields, Pastures, and Woodlands.* Moses Carver
19 is known to have improved 100 acres of his farm
20 by 1860, which involved clearing and plowing for
21 cultivation and other activities. The agricultural
22 census for that year indicates that Moses Carver
23 grew Indian corn, wheat, oats, Irish potatoes, hay,
24 flax, and rye, much of which would be fed to his
25 livestock during the winter, or sold or consumed
26 by the Carver family and work hands.²⁹⁶

27 By this time, farmers had begun to abandon
28 bottomlands and terrace fields in favor of upland
29 prairie after exhausting the bottomland soil and
30 struggling with farming flood-prone zones.
31 Abandonment of crop fields along stream
32 corridors led to successional changes in the plant
33 communities there. Persimmons, sumac, and
34 cherry, common early colonizers of old fields,
35 likely became prevalent.

36 The 140 acres of unimproved land remained an
37 important source of wild foods that were collected
38 for consumption by the Carvers, George, and his
39 brother Jim. Walnut trees grew naturally in the
40 area, but apparently were also planted by Moses
41 Carver; the timber made good fences, flooring,
42 inlay and trim. Walnut trees were also often
43 planted around house precincts to help reduce

44 yard maintenance as walnuts emit a toxin from
45 their roots that inhibits the growth of other plant
46 species.

47 In Newton County, farmsteads like the Carver
48 farm experienced significant change during the
49 latter part of the nineteenth century due to the
50 emancipation of slaves, and the emergence of the
51 mining and cattle industries. Zinc and lead mining
52 operations provided a ready market for fruit,
53 vegetables, and livestock. The Carvers likely used
54 at least part of their farm for commercial rather
55 than subsistence agriculture.²⁹⁷

56 By 1875, the area population had reached 12,000
57 and the mining and cattle industries were well
58 established. Many farms adapted by increasing the
59 number of acres in production by converting
60 prairie into crop fields and improved pasture.
61 George Washington Carver's recollection of
62 persimmon trees on the farm would be consistent
63 with these changes. Short leaf pine, oaks, and
64 hickories slowly disappeared, replaced by
65 hackberry, elm, honey locust, and black walnut
66 tree, along with Osage orange. The Osage orange
67 was introduced into the region for fencerows, but
68 quickly became an invasive nuisance. The
69 understory of returning woodlands was much
70 denser than the earlier gallery forests.²⁹⁸ By the late
71 1870s, there was likely little undisturbed prairie
72 left on the Moses Carver farm.

73 Although some of the plants known to the Carvers
74 remain present on the property today, the
75 composition of the pastures and woodlands are
76 not consistent with those present during the
77 Carver period, and the field, pasture, and
78 woodland features associated with the Moses
79 Carver farm are all missing from the contemporary
80 landscape.

81 Fescue was introduced to the area in the late
82 nineteenth century, and quickly became popular
83 for pasture use. Fescue continues to be associated
84 with the lead and zinc mine site, and many of the
85 farms located near George Washington Carver
86 National Monument. It was not likely a

295. Harrington et al., 58.

296. Toogood, 41.

297. Harrington et al., 63.

298. Ibid., 65.

1 component of the farm until the latter part of
2 Moses Carver's tenure of the farm.

3 **Cultural Vegetation associated with the**
4 **Shartel farm.** The Shartels removed many of the
5 features of the Moses Carver farm, including the
6 rows of walnuts, the field stone walls, the
7 orchards, and the remains of the Williams house
8 and other dwelling precincts, including associated
9 gardens.²⁹⁹ The Shartels are known to have raised
10 thoroughbred cattle on the property. All of the
11 fields were likely converted to cool-season grasses
12 under Shartel ownership to support pasturage.

13 **Cultural Vegetation associated with Park**
14 **Activities.**

15 *Native tree plantings.* When the National Park
16 Service acquired the property in 1952, it contained
17 groves and woodlands of native trees and along
18 the Carver and Harkins branches. These form the
19 basis for the existing riparian communities. The
20 park recognized the importance and value of these
21 native woodlands, and actively perpetuated the
22 tree plantings.

23 In 1963, the park superintendent noted the value
24 of the park's vegetation to visitors:

25 Academic groups are increasing in visitation to
26 the area. The emphasis is on the educational
27 information to be obtained from the birthplace.
28 This seems feasible as the Carver story is
29 connected with education, and the good plant
30 identification and the great variety of native
31 plants on the area would tend to make these
32 visits of interest to classes in history, botany,
33 and the natural sciences. We have shown a
34 decided increase in the area lies not as a picnic
35 site, but in the educational benefits of our
36 area.³⁰⁰

37 In 1964, college botany classes visited the park,
38 using it like an outdoor classroom due to the
39 variety and diversity of species present.³⁰¹

40 One of the management concerns was the threat
41 posed by the emerging Dutch elm disease to the
42 park's large number of American and slippery
43 elms. The 1961 Superintendent's annual report
44 describes efforts conducted by the park to protect
45 and treat the park's elm trees, which were part of
46 the naturally occurring woodlands as well as the
47 picnic grove. The report suggests that the park
48 adopted a spray program to protect surviving trees
49 from the elm bark beetle. Throughout the 1960s,
50 the Superintendent's annual reports continue to
51 mention this area of concern. In 1967 alone, the
52 park reported that 27 out of a total of 150 surviving
53 mature elms were infected with Dutch elm disease
54 and had to be removed. By the early 1970s, the
55 park began to realize that it was no longer able to
56 care adequately for the failing trees, and in 1973
57 ceased treatment programs.³⁰² The last American
58 elm was removed from the park in 1978.³⁰³

59 Throughout the 1960s and 1970s, the
60 Superintendent's annual reports also note the
61 addition of native trees to replace the lost elms and
62 other trees that succumbed to age, storms, and
63 other natural causes. Superintendent annual
64 reports repeatedly mention the loss of trees during
65 storms. For example, in 1973, severe storms
66 uprooted 100 trees. Another storm the following
67 year uprooted another 100 trees.³⁰⁴

68 Replacement plantings appear to have been
69 focused along the Carver Trail and in the picnic
70 grove. Care was also taken to prune and treat
71 surviving trees. Some trees were transplanted from
72 the wild. Several native species were listed as being
73 planted on a regular basis, including oak,
74 dogwood, redbud, maple, yellowwood, black gum,
75 and Kentucky coffeetree.³⁰⁵

76 In 1984, the park contracted for a study of the
77 Prairie-Woodland Ecotone that would result in
78 recommendations for park management. It was
79 envisioned that this study would help define the
80 historic scene associated with the Moses Carver
81 period of ownership. As the park embarked on its

299. *Ibid.*, 66.

300. Superintendent's Annual Report, 1963.

301. Superintendent's Annual Report, 1964.

302. Superintendent's Annual Reports, 1972, 1973.

303. Superintendent's Annual Report, 1978.

304. Superintendent's Annual Reports, 1972, 1973.

305. Superintendent's Annual Report, 1967.

1 prairie restoration program, it was considered
2 important to determine which portions of the
3 property should remain in woodland based on an
4 understanding of site ecology as well as historic
5 land management. This study was seen an
6 important tool in that process.³⁰⁶

7 In 2002, a seasonal forestry technician and two
8 Youth Conservation Corps (YCC) worked on
9 revegetation of the woodlands surrounding the
10 areas of the Carver Trail in the process of being
11 rerouted.³⁰⁷

12 These tree plantings postdate the period of
13 significance and do not contribute to the
14 significance of the park, although they are
15 associated with the park's ongoing efforts to
16 establish an aesthetic designed to honor George
17 Washington Carver.

18 *Restored native grassland prairie.* As noted
19 earlier, the park currently manages 130 acres as
20 restored grassland prairie. The park is divided into
21 nine prairie management units that reflect a
22 combination of field location, soils, and past land
23 use. The restored prairie falls within the former
24 agricultural fields of the Moses Carver and Shartel
25 farmsteads. It has been based on more than
26 35 years of work conducted by the National Park
27 Service in conjunction with several partnering
28 organizations. The prairie program was intended
29 to more effectively recreate the historic scene
30 while protecting resources within the park.

31 The first effort conducted by the park to restore
32 native grassland prairie involved a study
33 conducted in 1975 by Dr. Robert Landers, who
34 identified a 10-acre area he thought contained
35 remnants of native prairie grasslands.³⁰⁸ Based on
36 his study, the park initiated plans to use prescribed
37 fire to manage the parcel as part of a 1977 Historic
38 Resources Management Plan. The
39 Superintendent's annual report of 1977 noted that
40 the field lease program was anticipated to change
41 based on this decision. The Missouri Conservation

42 Department Field Service Agent visited the park to
43 assist with prairie and wildlife habitat
44 enhancement.³⁰⁹

45 In 1981, the park prepared a fire management plan
46 and prescribed burn plan and signed a fire
47 agreement with Missouri State Conservation
48 Commission in anticipation of the new field
49 management plan to restore native grassland
50 prairie.³¹⁰

51 In 1982, the park conducted its first application of
52 prescribed fire to manage the prairie restoration
53 parcels, which were expanding in size each year.
54 The prairie was later disked and native grasses
55 planted. The park installed a prairie restoration
56 exhibit for the benefit of visitors to explain the
57 change in land management. Later that year, the
58 park prepared a Prairie Restoration Action Plan; as
59 part of the plan, fixed point photographs were
60 taken on a monthly basis to create a record of the
61 program's progress.³¹¹

62 In 1983 and 1984, the park continued using
63 prescribed fire to manage four of the six prairie
64 units, while reseeding was completed in another.
65 Although agricultural special use permits were
66 renewed, the park began to plan for a phased
67 conversion of cropland to native grasses using a
68 hay management program.

69 In 1984, the State of Missouri provided seed for
70 the endangered Meades milkweed as part of a
71 cooperative program to establish the plant with
72 the park.³¹²

73 In 1985, the park finalized plans for seeding an
74 additional 60 acres of prairie, while exotic species
75 control efforts were conducted through a program
76 set up with the Missouri State Conservation
77 agent.³¹³

78 In 1986, prairie restoration efforts involved
79 monitoring and removing woody invaders, while
80 allowing certain species to remain that would

306. Superintendent's Annual Report, 1984.

307. Superintendent's Annual Report, 2002.

308. Superintendent's Annual Reports, 1972, 1975.

309. Superintendent's Annual Report, 1977.

310. Superintendent's Annual Report, 1981.

311. Superintendent's Annual Report, 1982.

312. Superintendent's Annual Report, 1984.

313. Superintendent's Annual Report, 1985.

1 support the desired future condition—a savanna
2 type ecosystem.³¹⁴

3 In 1988, 1989, 1990, and 1991 the park continued
4 its use of prescribed fire to manage the prairie
5 restoration process.

6 In 1991, the Newton County 4-H Council
7 provided prairie grass seed, which was used to
8 seed portions of management units 5 and 6. Units
9 1 and 4 were hayed, and the prairie hay donated to
10 support the activities of the Council. Prairie units
11 1, 2, 3, 4, the east half of 7, 7A, and 7B were also
12 burned in conformance with the Prairie
13 Management Program. Woody species, primarily
14 sumac, were cut and treated with the herbicide
15 garlon. Units 5 and 6 were mowed to control less
16 desirable annuals and exotics. Most of unit 6 was
17 plowed, disked, and seeded in an attempt to
18 improve the composition of native warm season
19 grasses.³¹⁵

20 In 1992, prairie management efforts included
21 prescribed burning of units 5, 6, and 7, and haying
22 of units 1, 2, 3, and 4 west of the walnut fence row.
23 Units 3, 5, 6, and 7 were also mowed to control
24 woody growth. To further support visitor
25 understanding of and appreciation for the prairie
26 restoration program, the park began offering
27 prairie walks on Prairie Day.³¹⁶

28 In 1994, the park continued vegetation monitoring
29 within the prairie units, as well as mowing, and
30 treating with herbicides. Work continued in this
31 way through the remainder of the 1990s.³¹⁷
32 Prescribed burns were conducted in 1995, 1997,
33 1998, 1999, and 2000.

34 Between 1998 and 2000, assistance was afforded
35 by the Ozark Council, the natural resource office
36 at Wilson's Creek National Battlefield, and the
37 state. The 4-H Council also continued to work

38 with the park, haying 350 bales of prairie grass and
39 removing a large area of Japanese honeysuckle.³¹⁸

40 In 2002, a seasonal forestry technician and two
41 YCC employees were hired to control exotic
42 species in the prairie units. Japanese honeysuckle,
43 Johnson grass, Lespedeza, smooth sumac, and
44 crown vetch in particular were targeted. In 2003,
45 additional work to control exotics was conducted,
46 and multiflora rose added to the list of targeted
47 species. A fire management plan was initiated but
48 not completed. Due to the lack of a fire
49 management plan, the prescribed fire program was
50 suspended. Without prescribed burns, the number
51 of exotic plants observed as part of monitoring
52 programs increased, along with hazard fuel loads.

53 Once the plan was put into place in 2005, the park
54 was again able to use prescribed fire to manage the
55 prairie restoration areas. In 2005, 69 acres were
56 burned.³¹⁹ Additional use of prescribed fire
57 occurred in 2006.

58 In 2007, haying and the use of prescribed fire was
59 conducted in cooperation with Newton County
60 4-H Council and the Missouri Extension Office.³²⁰
61 In 2008, prairie units 5 and 6 were burned. Also in
62 2008, the park began developing a Best
63 Management Practices manual for the prairie
64 restoration program.³²¹ Prescribed fire was used in
65 2010.

66 In 2011, prairie and woodland management areas
67 encompassed 200 acres of the 240-acre park.
68 Management practices included mowing, hand
69 pulling, herbicide application, and prescribed
70 fire.³²² In support of these efforts, the park
71 prepared a Vegetation Management Action Plan
72 with the assistance of the Exotic Plant
73 Management Team, Heartland Network and
74 Inventory Program. The plan also relied on the
75 information afforded by a study prepared by
76 Burfield and Nilon through the University of

314. Superintendent's Annual Report, 1986.

315. Superintendent's Annual Report, 1991.

316. Superintendent's Annual Report, 1992.

317. Superintendent's Annual Report, 1997.

318. Superintendent's Annual Reports, 1998, 1999,
2000.

319. Superintendent's Annual Report, 2004.

320. Superintendent's Annual Report, 2007.

321. Superintendent's Annual Report, 2008.

322. Superintendent's Annual Report, 2011.

1 Missouri at Columbia in 2011 titled *Integrated*
 2 *Vegetation Management Recommendations*.³²³
 3 Prescribed fire was also used to manage prairie
 4 restoration areas in 2012 and 2014.

5 The restored native grassland prairie areas within
 6 the park postdate the early park development
 7 period, and do not accurately reflect vegetation
 8 communities associated with the 1865–1877
 9 period of significance. As such, they constitute a
 10 non-contributing resource.

11 ***Picnic grove.*** The landscape to the north of the
 12 entrance road is characterized by large grove of
 13 mature, deciduous, shade trees. The trees are
 14 irregularly and widely spaced, allowing turf to
 15 grow beneath them. The grove was likely planted
 16 by the Shartels, who owned the property between
 17 1913 and 1953. Tree species include walnut, oak,
 18 sycamore, and hackberry. Elms were formerly an
 19 important component of the grove. American and
 20 slippery elms were lost in the 1960s to Dutch elm
 21 disease. The park actively replaces trees in the
 22 grove as they are lost. This grove, which has been
 23 used as a picnic area for the park since the early
 24 1950s, survives from the early park development
 25 period and contributes to the significance of the
 26 park landscape.

27 ***Walnut fence rows.*** Moses Carver is thought to
 28 have planted walnut hedgerows in several
 29 locations around the farm as living fences.³²⁴ One
 30 of these is thought to have existed between Carver
 31 Branch and the cemetery. In the early park
 32 development period, the National Park Service
 33 planted a row of walnuts along the Carver Trail as
 34 an interpretive aid to recall this element of the
 35 Moses Carver farm. This hedgerow survives from
 36 the early park development period and contributes
 37 to the significance of the park landscape.

38 ***Ornamental plantings along the entrance road.***
 39 Ornamental plantings are associated with the park
 40 entry gate at Carver Road, and at the beginning of

41 the loop. These plantings were installed by a local
 42 gardening group, and are maintained by park
 43 personnel and volunteers. The plantings include
 44 trees, shrubs, and ornamental grasses. These
 45 features postdate the early park development
 46 period and do not contribute to the significance of
 47 the park landscape. These plantings postdate the
 48 early park development period of significance and
 49 constitute non-contributing resources.

50 ***Ornamental plantings around the visitor center.***

51 Ornamental plantings were installed along the
 52 foundation of the visitor center and around the
 53 building environs circa 1959–1960 as part of the
 54 early development of the park. Many of the
 55 original plants died, however, soon after planting.
 56 In 1963, the Superintendent’s annual report notes
 57 that replacements were planted around the
 58 foundation of the building, including sugar
 59 maples, oaks, walnut, dogwood, and redbud, as
 60 well as periwinkle vines.³²⁵ In 1967, the roses in the
 61 beds at the entrance to the building were
 62 replaced.³²⁶ Flower gardens were established in
 63 1972 in honor of Carver’s great love for flowers.³²⁷
 64 In 1973, the flower gardens sustained damage due
 65 to a tornado, and were later replaced.³²⁸

66 Later, ornamental plantings were added to help
 67 screen views of functional areas within the
 68 complex. In 1977, junipers were installed to screen
 69 heat pump units from view along the Carver
 70 Trail.³²⁹ Evergreen privet shrubs were used to
 71 screen some fire hydrants.³³⁰

72 Ornamental plantings continued to be added
 73 around the visitor center in the 1980s, some to
 74 shade the building as an energy conservation
 75 measure.³³¹ The Superintendent’s annual report
 76 for 1991 indicates that park maintenance
 77 personnel installed materials in new planting beds
 78 around the visitor center and additional trees to
 79 enhance the appearance of the visitor center
 80 complex.³³² In 1994, additional planting beds were
 81 installed in front of the visitor center and around

323. Nilon and Burfield.

324. Harrington et al., 63.

325. Superintendent’s Annual Report, 1963.

326. Superintendent’s Annual Report, 1967.

327. Superintendent’s Annual Report, 1972.

328. Superintendent’s Annual Report, 1973.

329. Superintendent’s Annual Report, 1977.

330. Superintendent’s Annual Report, 1976.

331. Superintendent’s Annual Report, 1980.

332. Superintendent’s Annual Report, 1991.

1 the new comfort station, as well as elsewhere
 2 around the park’s developed core.³³³

3 While some of the existing material may be similar
 4 to that planted in 1959–1960, it appears that the
 5 majority of the shrubs and herbaceous plantings
 6 have since been replaced or are new features that
 7 respond to the visitor center expansion. The
 8 existing plantings thus postdate the early park
 9 development period and do not contribute to the
 10 significance of the park landscape.

11 **Ornamental plantings at the park housing**
 12 **complex.** The three park housing buildings
 13 constructed in 1959–1960 are edged by foundation
 14 plantings and other groupings of ornamental
 15 plantings designed to screen views of the complex
 16 from visitor use areas. These plantings were
 17 primarily composed of native tree and shrub
 18 species (Figure 78). Many of the ornamental
 19 plantings indicated in as built drawings from 1960
 20 remain present on the site today.

21 Plantings were later used to screen views of
 22 functional areas within the complex. In 1977,
 23 Amure River South privet (*Ligustrum amurense*)
 24 shrubs, a non-native species, were planted around
 25 the fire hydrant near the Superintendent’s
 26 residence for aesthetic reasons.³³⁴ Plantings that
 27 survive from circa 1960 contribute to the
 28 significance of the park; later additions do not
 29 contribute.



30 **FIGURE 78.** Plantings associated with the housing
 31 complex were established at the same time as the
 32 buildings. Source: George Washington Carver
 33 National Monument photo collection.

34 **Fescue fields.** Fescue fields were an important
 35 component of the property during Shartel
 36 ownership, when the property was used to raise
 37 cattle. After the National Park Service acquired the
 38 property in 1952, it elected to maintain most of the
 39 fields in hay production to perpetuate the historic
 40 agricultural setting. The park entered into lease
 41 agreements with local farmers to maintain the
 42 fields in hay production. During the 1960s, the
 43 Superintendent’s annual reports noted that
 44 agricultural land use contracts were issued to
 45 maintain 145 acres of the park in “their historical
 46 character as pasture or hay lands.”³³⁵ This
 47 continued until 1982, when the park began
 48 converting former cropland to restored native
 49 grassland prairie. The majority of the fields present
 50 in 1952 have since been converted to grassland
 51 prairie, and this cultural vegetation type is missing
 52 from most of the park. The 30-acre parcel where
 53 lead and zinc were formerly mined remains a
 54 fescue field. This fescue field was not part of the
 55 property during the early park development
 56 period, and its character postdates the Moses
 57 Carver farm period and does not contribute to the
 58 significance of the park landscape.

333. Superintendent’s Annual Report, 1994.

334. Superintendent’s Annual Report, 1977.

335. Superintendent’s Annual Report, 1967.

1 *Kitchen garden exhibit.* Associated with the
 2 Moses Carver house precinct is a kitchen garden
 3 exhibit where vegetables known to have been
 4 grown by the Carvers are featured in fenced beds.
 5 The 1975 Superintendent’s annual report is the
 6 first to mention the use of demonstration gardens
 7 to interpret the plants studied by George
 8 Washington Carver.³³⁶ It is not clear whether these
 9 are the same gardens as those present today near
 10 the Moses Carver house. The kitchen garden
 11 exhibit is maintained by volunteers.³³⁷ This feature
 12 postdates the period of significance and does not
 13 contribute to the significance of the park
 14 landscape.

15 *Carver family cemetery.* There is no cultural
 16 vegetation associated with the Carver family
 17 cemetery. Traditional practices associated with
 18 cemeteries often included removal of all
 19 vegetation through sweeping, although grass likely
 20 was also present. Today, the cemetery is
 21 maintained in mown turf. Other vegetation is often
 22 removed from the cemetery. For example, a crew
 23 of Youth Conservation Corps stationed at
 24 Wilson’s Creek National Battlefield traveled to the
 25 park in 1977 to remove vines and other unwanted
 26 vegetation from the rock walls of the Carver family
 27 cemetery.³³⁸ The character of the cemetery is
 28 generally consistent with that present historically.

29 **Missing Cultural Landscape Features.**

30 *Carver House domestic plantings.* Moses Carver
 31 is known to have planted or maintained oak,
 32 hickory, elm, and black jack oak trees around his
 33 house.

34 *Walnut fence rows.* Carver also planted several
 35 rows of black walnut trees around the property,
 36 including a line west of the house, as hedgerows or
 37 living fences.³³⁹ These features are all missing from
 38 the contemporary landscape.

39 *Orchard.* Moses Carver is known to have planted
 40 an extensive fruit and nut orchard on the property
 41 during the 1870s. By the 1880 census, the orchard

42 was recorded as containing at least 520 trees.³⁴⁰
 43 The orchard was removed by the Shartel family
 44 after 1913. No evidence of the orchard remains on
 45 the property today.

46 *Kitchen garden.* In southwest Missouri, most
 47 settlers raised a variety of food crops for family
 48 consumption in kitchen gardens, usually small
 49 fenced plots, located near the dwelling.
 50 Vegetables, herbs, and fruits often grown in these
 51 kitchen gardens included white or Irish and sweet
 52 potatoes, sage, red pepper, string beans, roasting
 53 ears, onions, peas, pumpkins, squashes, cabbages,
 54 turnips, and beets. Many gardens also included
 55 fruits such as watermelon and musk melon.
 56 Archeological evidence suggests that there was an
 57 orchard just west of the Carver cabin.³⁴¹

58 The agricultural census records the Moses Carver
 59 farm as specifically growing Irish potatoes.
 60 Carver’s nephew James Robinson recalled Moses
 61 “planted in the same spot every year.” Neighbor
 62 Elza Winter noted that Carver grew gourds shaped
 63 like pumpkins for water and sugar containers. He
 64 indicated that the vines grew along Carver’s picket
 65 fence, which likely enclosed the garden to protect
 66 it from the grazing stock.³⁴²

67 *Persimmon grove.* Moses Carver had a grove of
 68 persimmon trees on his property, and George
 69 Washington Carver described finding persimmon
 70 fruits on the farm. Park interpreters share the story
 71 of George recalling how he would sneak out of the
 72 cabin to eat persimmons, and get caught.
 73 Unfortunately, nearly all of the persimmon trees
 74 have died through the years, and very few remain
 75 within the park landscape today.

76 *Hanging tree.* The hanging tree was a large black
 77 walnut located on the knoll overlooking Carver
 78 Branch. The tree was the focus of a legend
 79 suggesting that thieves came onto the Moses
 80 Carver property, captured Moses Carver, and
 81 hung him by his thumbs from the branches of this
 82 tree to encourage him to divulge the location of a

336. Superintendent’s Annual Reports, 1975, 1976, 1977.

337. Superintendent’s Annual Report, 2003.

338. Superintendent’s Annual Report, 1977.

339. Toogood, 27–28.

340. Ibid., 43.

341. Harrington et al., 66.

342. Ibid., 41.

1 rumored buried cache of money, which he refused
2 to do. Although the story remained
3 unsubstantiated, the tree became an interpreted
4 element within the park along the original Carver
5 Trail. The Carver Trail passed the tree, and a sign
6 interpreted its history during the early park
7 establishment period. Soon after the park opened,
8 however, the walnut tree referred to as the
9 hanging tree died.³⁴³ The National Park Service
10 attempted to prolong the interpretive role of the
11 tree by treating it with preservative chemicals
12 before having to remove it. No evidence of the
13 hanging tree remains within the park today,
14 although a section of the tree is retained in the
15 park's museum collections (Figure 79).³⁴⁴



16 **FIGURE 79.** The “hanging tree” died soon after the
17 park opened. Source: George Washington Carver
18 National Monument photo collection.

19 **Contributing Cultural Vegetation.**

- 20 ▪ Replanted walnut hedgerow
- 21 ▪ Ornamental plantings at the park housing
22 complex
- 23 ▪ Picnic grove

24 **Non-contributing Cultural Vegetation.**

- 25 ▪ Native tree plantings
- 26 ▪ Restored native grassland prairie
- 27 ▪ Ornamental plantings along the entrance road

- 28 ▪ Ornamental plantings around the visitor
29 center
- 30 ▪ Rose plantings and other ornamental plantings
31 around the visitor center
- 32 ▪ Fescue fields

33 **Missing Cultural Vegetation.**

- 34 ▪ Carver House domestic plantings
- 35 ▪ Orchard
- 36 ▪ Kitchen garden
- 37 ▪ Persimmon grove
- 38 ▪ Hanging tree
- 39 ▪ Walnut hedgerows
- 40 ▪ Fields, pastures, and woodlands

41

343. Toogood, 42.

344. Personal communication, Lana Henry, 75% draft CLR review comments, April 2014.

1 3.3.8 Circulation

2 Circulation associated with George Washington
 3 Carver National Monument ranges from
 4 improved and unimproved vehicular roads and
 5 parking, to pedestrian walks, paths, and trails. The
 6 vehicular systems include the park entrance road
 7 and associated parking areas, the spur road to the
 8 picnic area, maintenance area access and parking,
 9 the housing complex entrance, access road, and
 10 parking, and an internal system of two-track farm
 11 lanes that provide access to much of the park for
 12 maintenance and law enforcement purposes.
 13 Pedestrian circulation features include concrete
 14 walks associated with the entrance road and
 15 parking, the entrance into the visitor center; the
 16 Carver Trail; and the Contemplative Loop Trail.

17 **Park entrance road and visitor parking**
 18 **area.** The park entrance road extends into the
 19 park from Carver Road. The entrance itself is
 20 marked by ornamental shrub plantings and brick
 21 piers set with metal gates (refer to Figure 59). The
 22 asphalt road passes through mown turf lawn set
 23 with large shade trees. Near the visitor center, the
 24 road splits to form a tear-drop shaped turn-
 25 around and drop off area, edged by two long bays
 26 of parking (Figure 80 through Figure 82).



27 **FIGURE 80.** The park entrance road passes the picnic
 28 grove.



29 **FIGURE 81.** Parking edges the road in the vicinity of
 30 the visitor center.



FIGURE 82. The entrance road features a drop-off area and looped return edged by parking.

1 The park entrance road and the southern bay of
 2 the visitor parking area were developed as part of
 3 the Mission 66 improvements made to
 4 accommodate visitors in 1959–1960. Weidman
 5 Industries, Inc., constructed the asphalt-paved
 6 entrance road and parking area, while Jones
 7 Construction Company built the entrance gate,
 8 signs, and fencing. All of the above facilities were
 9 completed in time for the July 1960 dedication of
 10 the visitor center (Figure 83).³⁴⁵ Prior to 1960, the
 11 park was accessed using the farm road established
 12 by the Shartels, which followed a similar alignment
 13 (Figure 84 and Figure 85). The Shartel entrance
 14 road was flanked by stone piers and wood fencing,
 15 and surfaced with gravel and hard-packed earth.



16 **FIGURE 83.** The Shartel entrance road was flanked by
 17 stone piers. Source: George Washington Carver
 18 National Monument photo collection.



19 **FIGURE 84.** The park entrance road prior to Mission
 20 66 improvements. Source: George Washington Carver
 21 National Monument photo collection.



22 **FIGURE 85.** The new road and entrance gate were
 23 completed in 1960. Source: George Washington
 24 Carver National Monument photo collection.

25 Although the entrance road has remained in the
 26 same location since its construction, it has been
 27 rehabilitated several times, and features associated
 28 with the road, such as the entrance sign, planting
 29 beds, and parking areas have been added or
 30 replaced since 1960. In 1974, the park road system
 31 was considered in poor condition, and was
 32 resurfaced in 1975.³⁴⁶ In 1986, an additional
 33 parking area was added along the northern side of
 34 the loop.³⁴⁷ The road was again repaved in 1989. In
 35 1991, the park’s roads, parking lots, and sidewalks
 36 were described as rehabilitated.³⁴⁸

37 The entrance road and southern parking area
 38 survive with integrity from the early park
 39 development period and contribute to the
 40 significance of the park landscape. The integrity of
 41 the road is diminished slightly by changes to its
 42 setting, such as a new park identity sign, planting
 43 beds, and the addition of the northern parking
 44 loop.

45 **Maintenance area access road.** An asphalt-
 46 paved maintenance area access road arises from
 47 the south end of the entrance road. The
 48 maintenance road provides access to the walled
 49 maintenance yard (Figure 86). A gravel-surfaced
 50 employee parking area edges the road to the south
 51 (Figure 87). An additional gravel-surfaced road
 52 extends north from the asphalt maintenance road,

345. Toogood, 70.

346. Superintendent’s Annual Reports, 1974, 1975.

347. Superintendent’s Annual Report, 1986.

348. Superintendent’s Annual Report, 1991.

- 1 providing access to the rear door of the visitor
- 2 center (Figure 88).

- 3 The maintenance area access road appears to have
- 4 been constructed as part of the original visitor
- 5 center and maintenance area development in 1960.
- 6 Parking along the edge of the road was never
- 7 formalized and occurs in an ad hoc manner by
- 8 park employees.

- 9 The access road survives with integrity from the
- 10 early park development period and contributes to
- 11 the significance of the park landscape. The ad hoc
- 12 parking postdates the period of significance,
- 13 diminishes the integrity of the circulation feature,
- 14 and does not contribute.



20 **FIGURE 88.** A gravel-surfaced road leads to the rear
21 of the visitor center.

22 **Picnic area spur road.** The picnic area spur
23 road leads north into the picnic area from the park
24 entrance road (Figure 89). The asphalt-paved road
25 curves through the grove, providing access to turf
26 lawn set with picnic tables. The spur road ends in a
27 small parking area located near the edge of the
28 Carver Branch riparian corridor (Figure 90). The
29 picnic area is described as present in 1953. It
30 appears that the road was upgraded in 1984. The
31 road survives from the early park development
32 period with sufficient integrity to contribute to the
33 significance of the park landscape.



15 **FIGURE 86.** The maintenance area road arises from
16 the south end of the entrance road.



17 **FIGURE 87.** A gravel-surfaced employee parking area
18 edges the maintenance area access road to the
19 south.



34 **FIGURE 89.** The paved picnic area spur road leads
35 north from the park entrance road.



1 **FIGURE 90.** The picnic spur ends in a small parking
2 area.



18 **FIGURE 92.** Access to the housing complex road is
19 restricted by a metal gate.

3 **Housing complex access road.** Vehicular
4 access to the housing complex arises from Carver
5 Road approximately 300 feet south of the primary
6 park entrance (Figure 91). Access to the area by
7 the public is restricted by a metal gate (Figure 92).
8 The asphalt road leads to the entrances of the
9 three housing complex buildings, as well as the
10 storage yard and fuel tank enclosure located to
11 their south. Several small parking bays edge the
12 roadway, which ends in a loop in front of the
13 seasonal housing quarters (refer to Figure 94).
14 Concrete wheelstops are located along the edge of
15 each parking bay.

20 The housing complex access road and parking
21 area, was completed in May 1959 along with the
22 buildings (Figure 93).³⁴⁹ The original parking
23 facilities were enlarged in 1979 near the seasonal
24 housing building to accommodate administrative
25 office use.³⁵⁰ An additional parking area was
26 installed across from the Historian's residence in
27 1989. The turn-around loop was widened at the
28 same time. The changes that have been made to
29 the original configuration diminish the integrity of
30 the access road.



16 **FIGURE 91.** The housing complex road arises from
17 Carver Road.

31 The access road survives with diminished integrity
32 from the early park development period and
33 contributes to the significance of the park
34 landscape.



35 **FIGURE 93.** The sidewalk and parking area at the
36 Superintendent's residence in 1959. Source: George
37 Washington Carver National Monument photo
38 collection.

349. Toogood, 70.

350. Superintendent's Annual Report 1979.



FIGURE 94. The road ends in a loop in front of the seasonal housing quarters.



FIGURE 95. Several unpaved farm lanes or two-track roads arise from the south edge of the maintenance area access road.



FIGURE 96. The Carver Trail arises from a gravel landing north of the visitor center.

1 **Internal access roads.** Several two-track grass
 2 and gravel surfaced roads extend throughout the
 3 property presently used by the park to maintain
 4 fields, boundary features, and woodlands. Access
 5 to the system of access roads arises from the
 6 western end of the maintenance area access road.
 7 The access roads are not open to the public
 8 (Figure 97 and refer to Figure 95). Access to the
 9 two-track roads is also afforded from gates in the
 10 park boundary fence (Figure 98). The farm lanes
 11 generally follow the park boundary and treelines,
 12 although others cross restored grassland fields.
 13 Access roads are present in the southwest corner
 14 of the park, on the site of the former zinc mine, an
 15 area that is also used to house a slash pile
 16 (Figure 99).

17 Some of these access roads may follow historic
 18 farm roads. For example, the North-South Road
 19 that follows the park’s west boundary may be the
 20 same route noted in the 1841 General Land Office
 21 survey notes.³⁵¹ Further research is needed to
 22 compare these roads to historic documentation.

23 The existing access roads appear to reflect historic
 24 patterns and farm uses present at the time of park
 25 establishment and contribute to the significance of
 26 the park landscape.



27 **FIGURE 97.** The grass or grass and gravel-paved two-
 28 track roads allow access to the larger park landscape.



29 **FIGURE 98.** Gates in the park boundary fence provide
 30 access to several of the unpaved two-track roads.



31 **FIGURE 99.** Several access roads are located in the
 32 southwest corner of the park in the vicinity of the
 33 former zinc mine.

34 **Carver Trail.** The mile-long Carver Trail winds
 35 through the park’s developed core. The trail arises
 36 from a trailhead north of the visitor center. Along
 37 the trail, visitors pass a succession of features,
 38 including a bronze dedication plaque, an exhibit
 39 interpreting Carver’s birthplace site, Carver
 40 Spring, the Boy Carver statue, Williams Pond, the
 41 circa 1881 Moses Carver house, the Carver family
 42 cemetery, and the Carver bust. The trail was one of
 43 the first amenities established by the National Park
 44 Service at the park. It is meant to link cultural and
 45 natural features on the site with George
 46 Washington Carver’s early life on the farm.

47 Materials used to surface the trail vary. Near the
 48 visitor center, the surface is gravel (Figure 96). A
 49 queuing area composed of concrete block marks
 50 the trailhead (Figure 100). The trail continues with
 51 a rubberized surface set over concrete

351. CLI, 37.

1 (Figure 101). As the trail traverses the steep slope
 2 of the Carver Branch ravine, it is paved with
 3 asphalt, and configured as a switchback that is
 4 edged by low stacked stone walls. Boardwalks and
 5 small wooden footbridges elevate the trail over
 6 wet areas associated with the Carver Spring and
 7 Carver and Williams branches (Figure 102 and
 8 Figure 103). Two prefabricated steel and wood
 9 plank bridges convey the trail over Carver Branch
 10 in separate locations (Figure 104). The first is
 11 located near the Boy Carver statue, while the
 12 second is located south of the Moses Carver house
 13 (Figure 105 and Figure 106). Other parts of the
 14 trail are surfaced with gravel (Figure 107 through
 15 Figure 109). A concrete amphitheater-like plaza
 16 encircles the Carver bust, and includes concrete
 17 stairs (Figure 110).

18 The graveled area outside the north entrance to
 19 the visitor center features a series of paths that link
 20 the beginning and end of the Carver Trail, and the
 21 concrete walk that edges the visitor center.



22 **FIGURE 100.** A concrete-block queuing area marks the
 23 Carver Trail trailhead.



24 **FIGURE 101.** A portion of the trail features a
 25 rubberized surface set over concrete.



26 **FIGURE 102.** A boardwalk elevates the trail over the
 27 wet area associated with Carver Spring.



28 **FIGURE 103.** The trail is surfaced with gravel as it
 29 passes through the woodland, and is set with
 30 wooden footbridges where it passes over wet areas
 31 and ephemeral streams.



32 **FIGURE 104.** A prefabricated bridge conveys the trail
 33 over Carver Branch.



1 **FIGURE 105.** Boardwalk is used where the trail crosses
2 the confluence of Williams and Carver branches.



3 **FIGURE 106.** A second prefabricated bridge crosses
4 the confluence of Carver and Williams branches.



5 **FIGURE 107.** Gravel surfacing is used where the trail
6 passes out of the woodland and follows the walnut
7 hedgerow.



8 **FIGURE 108.** The trail passes close to the cemetery.



9 **FIGURE 109.** The trail narrows as it passes through the
10 prairie and turns east toward the visitor center.



11 **FIGURE 110.** A concrete plaza and stairs edge the
12 Carver bust and mark the culmination of the Carver
13 Trail.

14 **Contemplative Loop Trail.** This trail is a one-
15 quarter-mile side trail of the Carver Trail that
16 encircles Williams Pond. It is designed to provide a
17 quiet experience meant to evoke the spiritual and
18 philosophical aspects of Carver's life. Stone
19 benches and polished granite blocks inscribed
20 with quotes from George Washington Carver's
21 speeches and writings are set along the trail to