

1812.

April. The two fishponds on the Colle branch were 40. days work to grub, clean, & make the dams.

Apr. 30. Shepherd makes 12. yds an hour of a trench 9. f. deep & wide, which is 24. cub. feet an hour, & 240. cub. feet = 9. cub. yards nearly in 10. hours.

1813. Sep. in digging the foundation of offices at Pop. For. 8. f. deep of very hard clay, without stone 6. constant diggers, 2 fillers, 2 carters who help to fill, & 2 oxen with a yoke of oxen in each, dig 42. cub. yards of earth a day and carry it 100. yds. each cart carrying 1. cub. yard at a load.

Sep. 18. 19. 20. there fell 9. f. of rain. it did not raise the river out of it's bonds at the lowgrounds adjacent to the saw mill. it fell very moderately, & the extraor-inary drought of 5. months preceding occasioned the earth to absorb a great deal of it.

1817. June 15. The circuit of the base of Monticello is 5 1/2 miles; the area of the base about 890. acres. within the limits of that base I this day tried the temperature of 15. springs, 10 on the South & 5. on the N. side of the mountain, the outward air being generally about 75° of Fahrenheit. The springs were as follows.

- 1. Bailey's spring 58 1/2°
- 2. South stone spring 59
- 3. Ned's 56 1/2
- 4. Abram's 63 1/2
- 5. Lewis's 66
- 6. Nailory 60.
- 7. Overseer's 54 1/2
- 8. ragged branch 58.
- 9. Goodman's 61.
- 10. mouth of Meadow br. 57 1/2

- 11. Rock spring 55 1/2
- 12. North road left 58 1/2
- 13. 7. f. right hand 57 1/2
- 14. falling spring 56
- 15. N. stone spring 55.

see pa. 32. the well being without water, a thermometer at the depth of 65. f. fell to 50° but altho' the thermometer was drawn rapidly up to the top for examination, yet it would rise some on the way up, and the more as the outward air was then at 85°

