

riably the cause of their shallowness. His object is to recommend thorough drainage, and it gives us sincere pleasure to go hand in hand with all those mentors who advocate this primary improvement. But why does the presence of water cause their shallowness—causing it progressively and incessantly to encrease. Stagnant water frequently aids in depositing peroxide of iron, and at other times carbonate of iron or of lime—thus filling up the pores of the soil with a natural cement which unites the earthy and stony particles together, forming what is familiarly termed a pan. But if the superfluous water be removed by thorough drainage—the soil perfectly comminuted by thorough tillage—and the air descending from the surface caused to permeate through the pores, and these latter processes continued and repeated, the subsoil becomes more porous and friable—the body of the soil becomes gradually purified and freed from the deleterious ingredients it contained by aration and lavation—and the deposit which formerly cemented the particles together can no longer be made—and, in course of time—we shall be gratified to find an unkindly and obdurate soil yielding fair returns of all the agricultural crops—disgracing and impoverishing no longer its unhappy owner, and disfiguring the neighbourhood. We can by deep ploughing—turning in at sametime green sward or green crops of any kind, deepen a soil to any extent—and we are only restrained by a calculation of the probable profit or loss. This will depend much on locality, and the prices of produce, as regulated by cost of manure—extraordinary facilities for preparing it and conveniences of marketing produce.

J. A.

## STATE FAIRS FOR 1859.

We publish this week a list of the time and places where State Fairs are to be held, so far as we are able to give them. Will our readers, in States not reported, inform us, that our list may be complete.

Canada West, . . . . .	Kingston, . . . . .	September 27—30
California, . . . . .	(holds 10 days) . . . . .	September 27—
Georgia, . . . . .	Atlanta, . . . . .	October 24—28
Illinois, . . . . .	Freeport, . . . . .	September 5—9
Indiana, . . . . .	New-Albany, . . . . .	September 26—30
Iowa, . . . . .	Oskaloosa, . . . . .	September 27—30
Kentucky, . . . . .	Lexington, . . . . .	September 13—17
Maine, . . . . .	Augusta, . . . . .	September 13—17
Michigan, . . . . .	Detroit, . . . . .	October 4—7
New-Jersey, . . . . .	Elizabeth . . . . .	September 13—16
New-York, . . . . .	Albany . . . . .	October 4—7
Ohio, . . . . .	Zanesville . . . . .	September 20—23
Vermont, . . . . .	Burlington, . . . . .	September 13—16

## CUT GRAIN AND GRASS BEFORE RIPENING.

An intelligent practical man who had just read our article on this subject in Vol. XV, page 253, remarked in our hearing that "if the reasoning of that ar-