in the previous crops\$	12.00
Ploughing	4.00
Cultivation, horse cultivator	
and hand, 2 hours	0.50
Twice more before sowing	1.0)
Seed, \$2.25; Sowing worth	
75 cents	3.00
First hoeing	4.00
Second hoeing, thinning, and	
transplanting, to supply de-	
ficiencies	4.00
Hoeing again, and loosening	
the ground with machines	2.00
Harvesting	9.00
G	

39.501

Now, I will give the manner of

making Beet Sugar.

The first operation is to clean the roots; some effect this by washing, others prefer scraping and paring them with a knife, although by this liquor is now subjected to evaporameans one sixth part of the root is wasted, as the scrapings mixed with earth cannot be safely given to cattle, and even the pigs eat but little of it; but it adds to the manure

and is not altogether lost.

Then the pulp is ground, it is put into strong canvass bags, and placed under a powerful press to squeeze out the juice. The residue is stirred and subjected to a second and third pressure, if necessary, till every particle of juice is extracted. As the liquor is pressed out it runs into a a copper until it is two thirds filled. The fire is now lighted, and, by the time the copper is full, the heat should be raised to 1780 of Fahrenheit's thermometer, but no higher. In the meantime, a mixture of lime and water has been prepared by gradually pouring as much water upon ten pounds of quicklime as will make the mixture of the consistency of cream.

This is poured into the copper when the heat is steadily at 1780 and is well mixed with the juice by mer is dipped into the simp and stirring it—The heat is then increa- drawn out; some of the thik spran sed till the mixture boils, when a which adheres to it, is taken between

thick and glutinous seam rises to the surface. As soon as clear butbles rise through this scum, the fire is suddenly put out by water posseed on it, or by a proper damper. The scum hardens as it cools, and the sediment being deposited, the liquor becomes clear and of a light straw The soum is then carefully taken off with a skinemer having beles in it, and is put into a vessel 🖼 such time as the liquor remaining in it can be pressed out. A cock is now opened about five inches above the boxom of the boiler, and all the clear liquor is drawn off. Another coel lower down lets out the temainder. until it begins to appear cloudy: what still remains is afterwards low! ed again with what is extracted by pressure from the scum. tion in another boiler, which is wide and shallow. The bottom is best slightly covered with the juice as first, and it boils rapidly. water evaporates, fresh juice is 🜬 When a certain degree of coagulation or thickening has akes place so as to show five or six degrees of strength, animal charcoal is gradually added till the liquor are ves at 200. One hundred weight of charcoal is required for the juice of two and a half tons of beet, which is now reduced to about 400 gallons. The evaporation by boiling continues till the thermometer marks 250, and a regular syrup is obtained. This is now strained through a linen bag, and the liquor is kept flowing by means of steam or hot air, and assisted by pressure. In two or three hours all the clear syrup will have run through.

The syrup thus prepared is against boiled and skimmed until it is suffciently concentrated which is known in the following manner: The skirm-