# The famnonton Slem. 

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VOL.II.- - NO, 43 .
HAMMONTON, N. J., SATURDAY, NOVEMBER 7, 1874
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## Prof. Taylors Report

It will be remembered that the above
 ot the silicitation ot the Criabery Grom ore' Asociation of this state. to invest
gate the rot and-seald, and ascertain, it bored fiutsfully, traveling He 1 bored. faithfully, traveling Irom one bo
to another in our State, and rendered, val uable services to our cranberry growers He makes his report to the Department, and.in the Ootober.numbere of the month IS reports, his statement is. given, a part
of which we transer to our colamno.-Cranberfy-growers should preservo it fo futare reference:-
"Previons to visiting the cranberry plantations, 1 -deemed it best to make $\mathrm{m}_{2}$ cxami nation of the beallhy and unhealthy
vipea, their roots and fruit, with sample vipes, their roots and fruit, with samples
of the soils in which thes grex, and now of the soils in which they grew, and no
prisecta a preliminary repori of the result of my investigations. I accordingly re quepted A. J. Rider, Esq., of Atsion
Burliagton County, to formard to this De partpent-scech tpecimens -as were- -iecess sary for my purpose. Two-speoimenzo vines
were tine a hbort time received by the De. partment, aidid $a$-specimen of the soil in which pach plant grem. An examination o.t the
one whiot bore rotiog fruit had , muph larger and Jarker roots than the othicr.
The peaty muek in which the benlthy plants grow had-a heallichy odor, end wat $\frac{\text { not in a ferruenting condition, while that }}{\text { of the unheat }}$ of the unhealthy-plant-ranain- - cond dition
of fermentation; and lid ike odor of sulof fermentation; and lind the odor of:sul-
phurroted hydrogon. $A$ pecond Eet of plants wha receivod, with specimens of the soil in thich they grem. It was again abserved thatt the vines on which unheal-
thy berrics prew pad darker and thy berrics grewi had darker and larger
roots than thbse which bore heullthy fruit, Toots than thpse which bore heellithy fruit,
and that the soil ot the latter wase odorloss, while thavor the folmer had t bad
 codition of the soil was he primary canso of tho rotiting of the berries.
On the 2 d d of Juyl last I ivisile C Canberry Purk, Station, Atsion, Burliugtoo County, and mado a curctul axamination
of the condition of the poil, the mode ol cultivation, the roots of the vines, their
foliage and fruit, the construction of wa-er-dame, dieches, sec., at that place.
Tha plantutious of the oompuny cour-
oriso about ono hundred and thirty aores, oriso about ono hundred and thirty dores,
thic greater nart of which were set ont in Lhe greater part of which were set ont in
1869 in in 1871 thero wais a light crop purtly rotted, in 1872 haif a crop, on narary all rolted, in 1873 a full 1 rop, and
nearly all rotted, naly 300 builiols of sound frutt boing picked out of a totul corov ostimated at 10,000 buehtolst No ferilizars wero used till the spring of 1873 , whin sand and plaster were applied to tho heciug at tho same timo trunted with conting of decounposed turl. Na rain te
 fisulur loaality tor protracted droughts in Junu and July.
Iruinod, ly cutting ditohost mbout two rold apait, and $n$ comation of sand was sirron over the vinis. Thas outlets and fiesting
diethes wervopened to give Ireo cicula dituhes werv opened to dive Ireo cicculin
cion of witor, as well as thioruygh drain aR:. Whece tolihgo was dostroyed lays fitllo trait, where plaster was anyliced with a layer of sand ovar it, tho vis.
looked henllily and had new rootlote. Soveral othar plantations in tho so
 ited Bricksturg. Ocean County, July 24 ,
 cunumencing with that of $\mathrm{b}_{\mathrm{t}}$. Xiderriunan, ound the berries vory thickly ser on tho vines mhere the blossums had not all disappluared, but iruses ot the rot woro diocarcful aramination of the nalure of the soil, the roots of the vines, nnd the de-
krue of noidity of the truit from tho diffurrot porions of the bog. Whero gunno
had boca applice a marked liuprosement
of the toliage and roots was visible. In answer to an inquiry made by me whether any of the growers-present bid given at
tention to the condition of the soil and of the roots of the vines, a ananimous onswer was given in the negative, We vis ited the plantations ot Mr. J. W. Camp bell, Rev. Isaac Todd; and Mr. Ferre, all bing connected, and forming one continaous plain. This extensive bog was fornigenerally foupd to be very favorable for crankerry gultization, which prozed-to the case in this instance. These three nlanations have never failed to produce healthy ofopss An examination of the soil proved that the peaty matter, which it principally consists of, was well decom. posed. Our attention was directed to ono small portion ot the pond where about
two yeazs ago the berries rotted. I extwo yeazs ago the berries rotted. I ex amined the placa, by dighiog up the
ground, and found that the soil was not well decomposed. and that the muck nas in a condition of active fermentation, giv ing off strong odors of sallphuretted hy drogen, - the-roots of the vines liers wer unhealthy color.
We next visited the platitation of Mr C. G, and E. W. Crane, at Loag Swamp plantation had been recentsy laid out, and was provided with the latest iuprovements. The grouni here proved senerall yood, althoogh in some places there wer decided indications of soorr, fermenting soll- 3 . Darron plantitions were nex character 0 bo well decomposed and without odo white other pertions were in a state of ler nentation. It was observed toat the ro was confined to the parts indicating fer
menting soil, while the sound beriong menting soil, while the sound berrion gre on the weil-decomposed snil, which ha
generally a pleasant odor. Wonext visited Butterly Bridge planyears ago by F. M. Todd, Esq., in the best mannor, and now belongiag to differ on thi plantation rotted ia spots last zea son. An examinution of theso spots slow ed undecormposed peat, and untiealthy ronts, the lacter bein, viry larga and olonely matted. Having hiated to the committee of cranberry growers accompanying me that termenting soil and stag anting water were probably the principa lithough iny theory lield good thus fur, hero wasa neglected cranborry plantation known as the Carey Bug, noar Brick sburg,
ing water of which they believed to bo Whater of which they believed to be potwithsiandiug, tho fruit of the bug had ot boen affeoted by the discase. An ex tar whioli floodod it ras perfectly freah, being supplied probably by tho nucans of aprings, and nassed off through the sand. Tho whole surtace was covered with a spersed with cranberry flunts. Tho craaberry roots wore growing in blo nooss and contined to it. They vere shurr, of a
whitish color, and very healthy, sand to he depth of oiglt inglieg had at ono cime oor spread over tho peat muck. I cut hrough it, and found it to ho vory pure und free from any odor. This bon very
much resemblies a wild bog, being wholly rigloutod. I havo uho examined tho ruots of the cranberry plants as found
krowing in the wild state, and in a.I caves havs found thein to bo houlchy and similar to thesu.
cover any hoalthy crauborry vinus growing in singnant wator.
I next proceoned to 'Tom's River. Wo haff milos from 'lom's liver. This planintion contains about lifty acres of vines, plidioh appoured vory promising. Thoy berriva, at tho dato of our visit wore at.
teotod slighaly with rot. On my first esamina:ion of thu aoill I dotoctod inpurrloct roots, but no sulphuretted bydrosen. On going dooper, tho hatter was found in six inchos. Thu soil of this plantation is of tho varioty known in Now Jersoy as trace of vegetablo matcer. An a a alybia
zade 10 the laboratory of this Depart hent, shows that the proportions are sand, 87 part, peaty matter, 3 parts. Mr. Shreve informed as that a layer of peat
about two inches in thic sbout two inches in thickness had been spread over the surface of the bog. From some canse this-peaty matter was-in-a bad. We were intormed the its odor ver been spread over portions of this plant tion with but little effect. In my opinion the use of stone or steell quick lime nould produco more important-results.--Th water in the ditches was higbly impreg nated with iron--probably as bicarbonato or-iron-which is soluble in water. Gas lime is composed mostly of sulphide o calcium: that is, a mixiure of sulphurand caloium. It also contains caustic lime but in limited quantity. When gas lime is exposed for a considerable period to the action of rain and air, a large portion of lime, or land plaster. Into sulphate of ine, or land plaster. I consider that, fo rock lime would prove more profitable

We nest visited the plantation of Gen
Morris, of Bogrille- His vines of Gen
of four yeara' growth; and the cranberries have rotted each year. An uxaminatio of the piat revealed the presence of sul phoretted Eydrogen, which was also found op the subatratum of the savannah bot oms of this plantation. One half of the plantation was covered with sand taken rom andjoining cultivated feld; the:par ioles of whioh were very fue, and it pro rably contained clay. The viees covered with this five sand were stuated in growth - While those sainded with coarse sand were verg lu-itty and in full bank near by were very th-itty and in full bearing. Sam procured and will bo anslixed havo been oratore of the Department.
I also visited the plantation of A. T. Fing, of New York, consisting of Ahirteen icres, The vines appeared bealthys were fruited, althaugh the berries were roting. An examination of the soil of this bog rovealed the presenco of fermenlation and unhealthy roots, We were inForued that the vines last yoar appeared healthy, and yes the berries rotted so badly that: but: twenty-five bushels were Wa next visitod en acres,
Wo next visited a very thrifity bog, Tom's liver. Thisis bog plantation, vear Tom's Rivor. This bog has always borae ruit fice from ryt. An oxamination
proved that all cho coinditions were faver able, tho soil beiog well decomposed and free trom odor, and the roots small and heulthy in appoarance. From this peint I proceeded to ${ }^{\text {py }}$ eat Creek, and visited tations of Col. D. R. Gowdy, and alen the Eagle Company plantation: I found hore gopd and bad soil, plenty of water, and a
refroshing, cool Lrece blowing ovar the surfaco of tho grounds, the lattor oircumsainoe being of sommono ocourrence. Mr Gowdy olaims to have a very suparior
short vine, whioh is snowa as the "Gowd vine." He, is one ot tho oldegt cultivator
in ity vory successful. The land undor cultiva l, found many spous on it ing god, though 1.tound ma
montation.
vial at this place bet inion acomed mpre the Fuglevesod Couppany, as to the besi lorm arid depth of ditohes snd thu width of the lands betsisen them. Tile irrigation
of crunberry land tif of the highost impor
 ately ditohed their bogs very doep, an Tn the day of wey visit to their plantation
in obser vod that the water in the ditohe did nol oodse wilhin eighteen ioohos of :h roots. There wore probably about five
inctus of sand oper tho peat bottome. I
oxaminod tho rooth oxamined, tho rooth of the vinef, and a vory bilh temperaturo. Pro orvarieer
in ohargeinformud ano that they had beod in chis condition tor bome timo, and tha: vith water instructions to 0 oll the ditechas
wowreses to act. This जay probably the cooctilina of aboal eight ral fect in dopth (codxr bothom, and is capable of still bipher cultivation, owio That Roneral mellow ododition of the soi
nd lis boing well sunpliod with wet dos not consider chat the extra depiths of vinon, providod proro injurioun to the sulustancial ditod-gatus to oonable the per son in ghargo ot resalato the height of
waler la slio ditches as wi.t.




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