## WESTERN SENTINEL.

BY J. W. ALSPAUGH.

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ADDRESS OF W. W. HOLDEN, Esq., AT THE CUMBERLAND FAIR -Nov. 3d, 1859.

Mr. President and Gentlemen

of the Cumberland Agricultural Society: When I accepted the invitation of your Committee to address you on this occasion, it was with much distrust of my ability to meet your just expectations. Nor has subsequent reflection, and some investigation of the subject usually treated in such address, served to diminish this distrust. So wide and so varied is the field before me-so intimately connected with sciences of which I know but little, and so, small is my practical knowledge of agriculture itseif, that I might well relinquish all hope, if indeed such hope could exist, that it will be in my power to instruct and inform the large and intelligent audience here assembled. Yet, I could not resist the invitation, because I agree my self to what I maintain in regard to others, that every public man is under obligations to respond to such calls; and since, also, I felt sure you would make full allowance for the numerous defects and the lack of knowledge which would be so appar-

Though not myself a tiller of the soil. I take a deep interest in this employment, and regard it, as we all should do, as of primary importance. Every thing beautiful, and useful, and durable upon the earth; Every object of art which decorates the landscape or floats upon the deep, has had its origin in the soil. Eveery comfort and convenience of life-every luxury that solaces or enervates usevery gratification based upon material things, and every physicial improvement, which, while it dignifies humanity, at the same time attests the superiority of mental power, may be traced directly or indi-

rectly to the soil. Since, then, agriculture is so important,

and so many interests depend upon an enlightened prosecution of it, it is natural that we should resort to every means in our power to add to our information on the subject, and to give to it still greater prominence as a practical science. And what a change has been effected in this respect within the last ten years. Then we had no agricultural associations of any kind; now we have a State Society and numerous County Societies, dispensing their benefits not merely at stated periods, but from year to year. Then our farmers, manufacturers, and mechanics, insolate from each other, knew but little of the progress which was being made in their respective departments of industry, and the stimulus of a general and enlightened emulation was wanting; but now they assemble together at least once a year, to exhibit and compare their productions, the evidence of their intelligence, thrift, experience, and perserverance; to take note of, and take heart from, the success of others in special fields of labor; to investigate and compare the processes by which certain results have been attained; to encourage each other by precept and example; to knit more firmly the ties of brotherhood and interest between different and distant come the citizens of one common State.

It is not the premiums offered and obtained on an occasion like this, which constitute the chief attraction to exhibitors. These are but "small dust in the balance," compared with the triumphs of intelligence and industry, of skill, or of genins, of which the premiums and diplomas awarded are but exterior evidence.

Looking over this large assemblage, one would conclude that if all your people were not here, they were at least well represented in the strength of their manhood, in the innocence and candor of their youth, and in the loveliness which is a

part of the birthright of the daughters of this favored region.

Truly it may be said of us, as of Israel of old, "The Lord thy God hath brought

may designate, to his decendants. Our governments, unlike those of the old world, are felt mainly, if not only, in the benefits and blessings they bestow. Industry, genins, skill, are as unrestricted as the sun and air; while the government itself, instead of repressing the energies of its citizens by unjust exactions, has become the patron and promoter of agriculture, mechanics, and the industrial arts.

If, therefore, we do not prosper as agriculturists, as mechanics, as manufacturers, as artizans, we must look elsewhere for the cause than to our political and so-

The primary pursuit of our people, as I have already intimated, and indeed of every people who have attained, or who

may hope to attain permanent prosperity, is that of agriculture. I know it may be said that some of the most powerful nations of antiquity were commercial in their character, and that England furnishes a striking example in modern times o prosperous commercial empire. But, after all, agricultural labor and agricultural production constitute the basis of English prosperity and power. In no country on earth has agriculture, chemistry, the nature and application of soils, climathology, animal and vegitable phisiology, botany. comparative anatomy of animals, natural history and geology, been so thoroughly understood and so generally practiced as in Great Britain. A good farmer has been defined to be, one who raises the largest quantity of the most valuable produce, at the least expense, in the shortest time, and with the smallest injury to the land. According to this test, the English, the Scotch, and the Irish are among the best farmers. "Their caute and live stock, instead of being a burden, are a benefit to, their lands. Diversified as are the pursnits of the English people, and excelling as they do in manufacturers, yet the latter are of comparatively modern origin, depending mainly for existance on our great staple, Cotton; while all their pursuits and interests would languish if their agricultural operations should decline. They have availed themselves not only of the atmosphere, light, heat, the rains and dews, in cultivating their fields and in adding uniformity and beauty to their landscapes, but they have sought out inventions with which to till the earth, to lighten the labor of man and beast, and, by thorough pulverization and cultivation of the soil, to draw from it the largest quantity of produce with the least injury to the soil itself. Whenever the business of cultivating the earth begins to decline in Great Britian; when her people come, if they ever should come, to attach more importance to commerce than to the means of commerce; when they come to think more of their ships than of that interest which feeds the people and freights the ships, then may it be said of her, as of other nations in which the commercial

feature predominated-"That trade's proud empire hastes to swift decay, As ocean sweeps the I bored mole away; While self-dependent power can time defy,

As rocks resist the billows and the sky. This "self dependent power" belongs pre-eminently to North Carolina. About the same area of Great Britain, North Carolina has as good lands as hers were originally; as many minerals and in as great abundance; a latitude better suited to the grape and other fruits; as many, if not more tacilities for manufacturing; and to-wit, rice, tobacco, indian corn, and cotton. England is an old, ours is a new to the square mile; if equal to that of would swarm upon our surface. Only about one-sixth of our entire erea is in localities; and to rouse up and keep cultivation; every square yard of England have over her in climate, in the four great staples, in our species of labor, in our exemption from rental charges, from the the blight of absenteeism and privileged orders-what a great and glorious future is before us, if we are only true to ourselves?

All soils, to be productive, must possess certain properties or elements. Orga ic or vegitable matter must exist in due proportions with earthly or inorganic matter.

water, of fountains and depths that spring traces but small quantities of phosphoric perity which no common depressisn or out of valleys and hills; a land of wheat, acid, lime, magnesia, potash, and soda- calamity can seriously impair, much less impaired by no laws of descent or primogeniture. No oppressive system of land-lord and tenant—no burdens imposed for lord and tenant—no the benefit of privileged order, retard our tain potash and soda, the grains bore of manent body thus given to their hands industrial pursuits, or restrict the hand of each than the cob, while the two contain cannot be estimated in dollars and cents. honest labor. Every man in this country | the same quantity of lime. The leaves | We have in abundance, along the Cape may be a freeholder. Every man may take up soliba, potash and soda in large, Fear, the Neuse, and throughout our easfruits of his inclustry, in such modes as he potash, soda and phosphoric acid in large any in richness and fitness for the soil. If proportions; the silica for the straw, and I had time I could lay before you numerthe other elements mentioned for the ous examples of its profitable application grain. The fifty-eighth part in one hun- to lands in this State. It is true, it requires dred of the potato is potash and soda .- labor and expense to get it out and apply The tobacco plant contains forty-eight it; but where it is in the neighborhood of parts of lime, four of potash, six of soda, | the farmer, there can be no doubt that it nine of magnesia, fourteen of phosphates | will amply repay the labor, expense and of lime and magnesia, eight of sulphuric care bestowed upon it. acid, and four of solica. The cotton plant, soda, and magnesia.

ing; yet whenever he ditched, or drained, cultivated his land, -and whenever he applied fertilizers to it, whether in the form of stable manures, lime, plaster, gnano, or principles of agricultural chemistry, and was, to that extent, a scientific far-

In order to produce, as we have just improve the soil, and water is the medicm of communication. Earth, air, wa'er, light and heat; these are the agents in the laboabsorb the nutrient properties of the earth. The plant now lives and breathes. Taking up substances from the soil, by the aid of water and the combined action of air and

periods peculiar to each plant. farmers, many of whom enterlained the best calculated to preserve or restore fer-

Truly it may be said of us, as of Israel of old, "The Lord thy God hath brought thee into a good land; a land of brooks of land per cent. or parts of silex or sand, five parts of organic matter, fourteen of alumnates and land of brooks of land is not have been steadily kept up, and the fruits of which are seen in all directions in neat and almost perfect farms, and in a pros-

But it by no means follows, because agwith the seeds, abounds in lime, potash, riculture is a science or art, that, for practical purposes, it is difficult or abstruse. Now, these are hard names, and the In the early ages of the world, when the practical farmer may be curious to know leading orders were devoted to the chase in what respect they affect his business; or to war, and when the wants of mankind himself of the elements or agencies just | ties for successful farming in Egypt, Greece | unimformed. referred to. He may not have known and Rome proper, were not, altogether, these agencies or elements by name, and worthy to be compared with any one modhe may have attached but little importance ern improvement in the science. The the rolling lands of the interior or middle the "light, giddy and impetous French

to what is called book, or scientific farm- plough, by horse and by steam-the reap- region, and the mountains and valleys of people, he says, their "superior sobriety ing, the threshing, and the mowing ma- the west. She occupies the best latitudes or horizontally ploughed, or thoroughly chine-the cotton-gin, separating the seed on the surface of the globe, being shielded from the fibre with the rapidity of light- by her situation from the extreme cold of cheap and innocuous beverage is accessining and the delicacy of the human touch -the flouring-mill, receiving the rough South. Every cereal or grain, every pressed a similar opinion sixty years ago. green crops turned in, he practiced the grain and bolting it out in snow white

flour, worthy to have graced in its wheaten excellence, the tables of all the Phara- vine, common to the temperate zone, to- that the efforts which are in progress here ohs or of Solomon himself-the corn-planter, dropping the seeds with the mathemat- tain perfection in her soil. Her timber of grapes in perfection, and to manufacture stated, there must be, first, fertility of soil | ical precision-the various contrivances | various kinds, and her naval stores, are | a pure and cheap beverage in the form of for the seeds planted; second, warmth; for draining, breaking, slicing, and pulthird, moisture. The air is a reservoir or verizing the soil, and the chemical knowlholder and dispenser of substances which edge which separates, solves, and deter- the county of Nash to the Tennessee line, mines the nature of soils,—these improve- her hills and mountains are richly stored ments were unknown even to modern Eu- | with minerals of all kinds; while nearer | of internal improvement. No people can rope, and are characteristic only of this | the ocean, and almost on its very shores, | hope to prosper without means of commuratory of nature by which production is the most advanced and most prosperous are elements of nurrition for the soil, and constantly maintained. Without the condition of mankind. The plough is a earthly inorganic matter-without light great civilizer. Without it the axe would ed in other quarters. Her swamp lands, to project and establish these means of or heat in due proportions—without the be wielded in vain. Cultivation means ammonia and carbonic acid of the atmost the plow; and the plow always does, or phere, and without water, which holds always should imply cultivation. But soil both ammonia and carbonic acid in solu- must be had or made, before it can be cultion, and, in descending, imparts it to veg- | tivated. If it be already good, care must etation, the husbandman would plant in be taken to preserve and improve it .vain. For example, the soil is prepared, This can be done, first, by hillside ditching | these lands, capable of yielding ten barrels | condition; the Wilmington & Weldon and a grain of corn is deposited in the and horizontal ploughing, to prevent washground. Under the influence of warmth | mg, for the loss is often greater from washand moisture it expands and manifests ing than from the absorption of plants; Estimating their yield at eight barrels to at Beaufort to the Catawba river westlife. Gradually but surely, obeying the secondly, by ditching and draining where the acre, it would give eight millions of wardly; the Manchester Road has been life-principle infused into it by the Creathere is too much water; and thirdly, by barrels, which exceeds the corn crop of completed; a portion of the Road from tive hand, it first sends its root downwards a proper rotation of crops, by fallowing, the entire State in 1849, by two millions Wilmington to Rutherford has been conand fastens it in the soil, while it shoots up and by fertilizers, not thoughtlessly appliits green bud to drink in the light and the ed but such as are needed. Stable marichness of the air. Soon the tap-root, nure contains in abandance nearly every | mal life, these lands are destined to become | by inland navigation with the Chesapeake which steadies the stalk, sends out smaller | element requisite for grain or other crops, | the Egypt of the South. They are so rich | Bay; a Road has been projected, and is roots in all directions, which feel for and and is, with wood ashes, the best fertilizer. But as these are not to be had in sufficient quantities, we must look for substitutes .-Guano, which contains a large amount of Texas. There are lands in Hyde which cheapen transportation and travel, are phosphoric acid, ammonia and lime -- of all have been cultivated in corn for nearly a engaging the attention of our fellow-citilight, it deposits them in the stalk and which enter in greater or less proportions century, without any apparent diminution zens. The day is not distant when the blades. Now the tassel appears, and then | into wheat, corn, tobacco, and cotton-has | of their fertility. Lands like these, wheth- | iron horse, with thundering hoof and lungs the shoot, with its delicate silk; the pol- been much used recently. I know the er so naturally or rendered so by art, are of flame, will dash through the swannanlen from the tassel, shaken by the winds, opinion is entertained by some that it only | really more valuable to the State than on gap, and thus unite together, and unite is showered on the silk, and the grains are stimulates, and really impoverishes the naval stores, or mines of gold and silver. forever, the people of the East and West. formed. The plant then matures, and lo, soil; but this opinion is not sustained by The best evidences of wealth always con- Let those who have so long labored and we have "the ripe corn in the ear." Thus, the best farmers who have used it. It is sist in fat cattle and poultry, fine horses, looked for that day, take coarage. The since the creation, has all vegetation been true, if we depend on guano alone, and good mules, handsome and well-construct- State is pledged to the work. It may be formed, varying only in the modes and cultivate the land year after year for the ed dwelling houses, stables and barns, and retarded or postponed, but it will be done, same crop, it will be exhausted, and the | well-ted and well-contented laborers; and | for North Carolina has never yet pledged It is obvious, then, that agriculture does same result would follow any other fertili- these evidences are generally seen on fer- her faith in vain. not merely imply c'earing, plowing, dig- zer. We must not expect too much from | tile, well-conducted farms. Gold and silging and harrowing, but that it is a science any one fertilizer, for it can only bestow ver, and naval stores, though property in four great staples foreign to British soil, or art, and must be pursued with the same | the peculiar properties it pessesses. When | themselves, are only the means for obtain- | sive; yet I am sure they are not as heavy intelligence and perseverence which are these are exhausted of course the fertilizer ing these results. Yet every pursuit is to as those of many other States. But what indispensable to success in other vocations, tails; but a rotation or change of crops, be commended in its time and place, inascountry. Our population about twenty The soil in its primitive state generally with now and then a green crop turned in, much as a just distribution of labor, creat- lie works?-if our Railroads had never yields abundantly, and the first tiller en- will not only restore but improve the fer-England, sixteen millions of human beings joys its productiveness without thinking tility. Those crops, says Dr. Emmons, ble to a high state of civilization and reof the exhaustion going on, or of the im- selected for enriching the soil, should be finement. portance of renovating measures. This such as grow vigorously and send their has been peculiarly the case in the old roots deep to bring the fertilizing matter tobacco and cotton. The value of the to- is so apparent in almost every department. warm those noble sentiments of patriotism | serves some purpose of adormment, profit, | Atlantic States. | Vast bodies of land have | to the surface. That learned gentleman | bacco crop of the United States in 1858, | of industry, and which is the result in a and fraternal regard which so much be- or utility. Comparing the two countries- been cleared, scourged and exhausted by mentions clover and peas particularly, as was one hundred and seventy-eight mill- large degree, if not entirely, of internal

> erroneous opinion that land was made to tility; and though he says "it is not per- received estimate of nour millions of bales, be worn out; and having, as they thought, haps possible to estimate the real value of cannot be less than two hundred millions. accomplished their work as farmers in a clover crop as a fertilizer," yet, on ac- The value of four Southern products-rice, that North Carolina contains one million burdens of Church and State, and from their first localities, they have removed to count of the heat of the suns and sands of sugar, tobacco and cotton-rose from six- of inhabitants. One of our Railroads is distant regions and settled on new soil .- this latitude, especially south of Raleigh, ty-six millions of dollars in 1840, to two paying twenty-four thousand dollars per This exhausting process was formerly he inclines to think that the pea, from its hundred and thirteen millions in 1858; annum into our Common School Fund; as common in the Northern and Eastern composition and adaptation to climate, is States as in this; but their means of inter-the best crop to precede wheat and to act communication and of reaching the mar- as a general fertilizer. The pea, he adds, kets of the world, which were early estab- after a careful analysis of both plants, "is kets of the world, which were early established, and the demands for breadstuffs considerably richer in the expensive eleant life substaining food of all kinds, creating and life substaining food of all kinds, creating the place of red clover, in and yield as well there as here, involunced to any contents with succeed to any contents There must be what the chemist call phos- ed by their rapidly increasing population no doubt "take the place of red clover, in and yield as well there as here, involunphorus, sulphur, potash, soda, lime, magnesia, iron, silica, and alumina. A good
> fair soil, for example, contains seventyfair soil, for example, contains seventy
> the result in a large degree of emigrathis State." "Experience," he continues,
> this State." "Experience," he continues,
> which this staple cannot be successfully
> is easily cultivated, and is not liable to so
> cultivated. Experience has shown that

> a constant object with the farmer. He in our own country, give assurance that and barley, and vines, and fig-trees, and pomgranates; a land wherein we eat any given quantity- Different kinds of for example, which were formerly barren to the future. Whether his farm be large to be profitable: North Carolina producbread without scarceness; a land whose plants require these properties in different and apparently untillable, have been re- or small-and, as a general rule, the smalled in 1849, about twelve millions of pounds stones are iron, and out of whose hills we may dig brass." This goodly heritage is leaves, stalks, and tassles of corn, for exto pay for fertilizers, let him make them have doubled since that time, I entertain by composting; let him save all his ashes no doubt. The demand, then, for these and apply them to his land; let him re- staples must increase; and this demand sort to green crops turned in, which never should operate as a constant stimulus to fail to remunerate for the labor and ex- our farmers. It would be better for them, pense bestowed; let him protect his soil and better for us all, if they could reach by deep ploughing, where it is nesessary, their own sea-ports with their produce, improve his condition on a solid basis, and and lime and magnesia in considerable tern plains, the same fertilizer, in as great and by a succession of grasses, which will and dispose of it on advantageous terms, count with certainty on transmitting the portions. Wheat requires silica, lime, variety as in any State, and quite equal to afford nutriment for his stock, and at the but if they cannot do that, let them make same time prevent the land from washing. | all they can, and sell all they can, to Let him resolve, and always bear in mind | whomsoever will buy. that his home and the home of his children is just where he is; that if this or that im- and for wine, is at present exciting attenprovement, or fixture, or adornment, tion in North Carolina. That a considershould not be profitable or needful this ble portion of our territory, extending year, it may be next year, or years there- from the seabcard to the Cherokee mounafter; and that nothing valuable in its natains, is adapted to the culture of the vine ture which he may put in or put on his and that this business will be profitable land, will be lost to him or his descend- when judiciously pursued, there can be ants. It is this spirit of thorough cultiva- no doubt. If common wines were as tion, of permanent improvement, which cheap in this State as they are in France can alone attach our people as they should and Germany, they would soon become be attached to the soil, and make the State | the prevailing beverage, and would bailwhat she deserves to be among her sisters. | ish the vile compounds, which, under the but they are not more difficult to the ag- were few, agriculture was neglected, inso- The farmer must labor intelligently, and names of whiskey, gin, rum and brandy, ricultural chemist thoroughly scientific much that any prominent or learned citifarmer, than compasses and planes are to zen or subject who turned his attention to will labor to little profit. Knowledge is so injurious to the souls and bodies of our the carpenter, or chases or shooting-sticks it, became at once, from the novelty and not only power, but it is money. We see people. The use of "wine, that maketh to the printer, or advowsons, detinue, or singularity of his taste, a noted, and after- this truth illustrated every where, in all glad the heart of man," is not forbidden trover to the lawyer. Every practical wards an historical character. Cato and human occupations. We must know be- either by divine or human law. In the farmer, who has succeeded well in his vo- Cincinnatus were really very indifferent fore we can do; and he that knows most language of Dr. Hooper, whose sobrlety cation, - who has made good crops, and at farmers, compared with those of the pres- in pursuit or business, no matter in what and piety no one will question, 'what the same time preserved or increased the ent age. If they cultivated the earth at original fertility of his land, has availed all, it was upon a small scale. The facili- will be sure to excel the stupid and the with the nuitriment of man, cannot if so-

> > North Carolina may be divided into

more abundant than those of other States | wine, may be be crowned with success. and equal in quality to the best. From stone marl for building purposes, unexcell- If North Carolina began at a late period more attention than heretofore, have never | said that she has moved slowly since 1848. been sufficiently appreciated. It is esti- Ten years ago the Raleigh & Gaston Road mated that at least one million of acres of | was in a languishing and almost worthless and consequently unfitted for cultivation. Road has been constructed from the sea of barrels. In productiveness, and in the structed; a ship channel has been opened sustenance which they will afford to ani- along our coast, connecting our seaboard ganic matter-that they will wear as well | the Coalfields on Deep River; and various as the best bottom lands of Arkansas or other enterprizes designed to facilitate and ed by a diversity of pursuits, is indispensa- been constructed ?-or if they were now

ions; its value this year, at the generally tary or slave labor is wanting, without which this staple cannot be successfully cultivated. Experience has shown that we can sell as much rice, wheat and corn as we can produce; while the extension of our commerce to China, Japan and other eigh—the fund-growers—is at least equal every year to the interest on the whole of the public debt; and but for Railroads not one bushel probably of the article of commerce which yields this income, would ever have reached the Northern markets.

This portion of the State, fellow-citizens

The improvement of his land should be | quarters, and the increased use of tobacco

The culture of the grape for table use with the nuitriment of man, cannot if soberly and prudently used, be hurtful either to body or mind." He advises the culthree parts, to wit: the plains of the east, ture of the vine for wine. Referring to cannot be attributed to any moral cause, and is probably due to the fact that a the North and the blasting heats of the ble to every body." Mr. Jefferson exspecies of grass, every leguminous plant, It is the interest of all classes to encourage every berry, every fruit-tree, and every the culture of the grape. Let us hope gether with rice, tobacco and cotton, at- and elsewhere in the State, to produce Agriculture and the mechanic arts have

been greatly stimulated in this State during the last six or seven years, by works nication with the markets of the world,situated in the Eastern Counties, though | communication, and if large and fertile they have long been a source of profit, and | portions of her surface are still unfortunthough at this time they are attracting ately cut off from markets it cannot be of corn to the acre, are still unreclaimed, Road are paying handsome dividends; a -so well supplied with organic and inor- now nearly completed, from this place to Our State and County taxes are thought

by some to be heavy and almost oppreswould be our condition if we had no pubarrested in their operations? Are there any among us who would prefer such a. Our leading staples are rice, corn, wheat, | condition of things to the prosperity which ceased, and our population is increasing .-The next census will most probably show pay the principal of the State debt as it