# NOTES AND DOCUMENTS

### THE TULIP MANIA IN HOLLAND IN THE YEARS 1636 AND 1637

### N. W. POSTHUMUS

the sixteenth century. The need was soon felt of regulating list of price quotations as early as 1585) expanded steadily; for this purpose. bank), which really was a transfer bank, was founded in 1609 the circulation of currency; the Bank of Exchange (Wisselthe number of goods dealt in increased considerably during northwestern part of Europe. Its Exchange (there exists a chief commercial emporium, the center of the trade of the THE years of the well-known tulip speculation fall within tinuous rise in economic activity. Amsterdam became the a leading position. Between 1585 and 1650 there was a coninvolved in the revolt against Spain, Holland began to take measure. When Antwerp's position became unfavorably places to benefit from these changes, Holland in a slighter covered America. Lisbon and Antwerp had been the principal owing to the growing commercial activity in newly disof gravity of international commerce had been removed from the Mediterranean coast to the western coast of Europe, United Netherlands. During the sixteenth century the center Il a period of great prosperity of the Republic of the

of the West India Company (West-Indische Compagnie) estaboccurred in these shares that the authorities deemed it wise New York is well known. lished in 1621. The part which it played in the foundation of to interfere. A similar popularity was enjoyed by the shares wards. Even about 1609 such an important bear speculation 1602. Its shares were quoted on the Exchange soon after-Company (Oost-Indische Compagnie) came into being in The number of great companies also grew: the East India

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in the influence of that city. very strongly, and it may be said that the speculation in tulips in 1635, 1636, and 1637 finds its objective explanation also a very important consuming center. The surrounding all parts of the world. This accumulation of riches made it tinuously and its numerous visitors including traders from grew to be an opulent city, its population increasing connecessary technical organization of the market. Amsterdam parts of Holland felt the economic influence of Amsterdam dance of currency, the great number of speculators, and the uisites to a fully developed trade in futures in her abun-Trading in futures was common. Holland found the req-

and speculative spirit was certainly a very powerful stimuwhere; but the nearness of Amsterdam with its commercial ever, uncertain whether their rôle was a leading one. Perhaps contact with the great speculations of the time. It is, howthe initiative in the tulip trade and mania came from else-Many bulbgrowers, living in Amsterdam, were in close

Mitchell. It is, however, not mentioned separately by Wesley C. speculation without throwing any new light on the subject. Max Wirth s takes a whole chapter to describe the tulip same forces which produce the modern form of business cycle. business fluctuations. Mentor Bouniatian 2 sees at work the crisis may be found in modern literature on the history of by a number of foreign scholars. Several references to this The tulip speculation in the Netherlands has been studied

transactions, although most of them are written in a moral-These pamphlets contain many data on the extent of the wrote on the subject, mostly after the crisis had taken place. much attention at the time, and many contemporary authors In the Netherlands this feverish trade in tulips attracted

<sup>1</sup> Wieder, F. C., De stichting van New York in Juli 1625 ('s-Gravenhage, 1925).

<sup>&</sup>lt;sup>3</sup> Crises Economiques (trans., Paris, 1922), pp. 41–42. <sup>3</sup> Geschichte der Handelskrisen (Frankfurt a. M., 1858, 4th ed., 1890). <sup>4</sup> Business Cycles: The Problem and its Setting (New York, 1927).

prints and caricatures. The tulip mania was not confined to a opponents were published, as well as a great number of izing tone. At least fifty booklets written by defenders and by part of the Republic. few insiders, but caused an upheaval in the whole western

and Gaergoedt on the rise and decline of Flora; author. The full titles are: 1. Dialogue between Waermondt They were published separately in 1637 by an urknown mondt and Gaergoedt (True-Mouth and Greedy-Goods). form of dialogues between two symbolical persons, Waer-We learn most from three contemporary pamphlets, in the

being the continuation of the rise and decline of Flora; 2. Second dialogue between Waermondt and Gaergoedt,

continuation of the rise and decline of Flora. logue between Gaergoedt and Waermondt, containing the 3. Register of the prices of flowers, being the third dia-

special value, being original documents from the traders transactions before the solicitors. themselves who, as an additional security, concluded their efforts to counteract the effects of the crisis. The acts are of Next we have solicitors' acts and a few governmental

century the tulip came to the Northern Netherlands. Augsburg, and Brussels. Before the passing of the sixteenth were mentioned in several parts of Europe — such as Vienna, Eastern Europe was made in 1554 and soon thereafter tulips Western Europe from Turkey. The first mention of it in seems that the tulip as a cultivated flower was imported into On the early history of the tulip itself I can be brief. It

E 2.

The scarcity of tulips and their beautiful colors made them

very valuable and high prices were paid from the beginning. usually see, were quoted very low. in the list of prices for tulips the plain shades, which we now The great favorites were the flamed or double-colored ones;

forty miles, between Amsterdam and The Hague. to the South the fields expanded, covering a stretch of some center was Haarlem, as indeed it is today. To the North and The culture in Holland extended rather rapidly. Its

growths, once planted, would be a success, the buying of such the Semper Augustus. Soon a new trade developed in future were asked for one bulb, one of the most beautiful tulips, rare items were sold individually. In 1624, \$480 (fl. 1,200) portance, it was usual to trade in beds of tulips; only very but as early as 1610, when the culture was of moderate imsale trade. In the beginning, bulbs were sold by the piece; began; the blossoming flower was never the object of wholewere usually delivered at once. In the beginning of June, future bulbs brought a new risk for the owner. At first, bulbs to the motherbulb. As it was uncertain whether the outbulbs, the so-called excrescences which were still attached planted again in September. Delivery could therefore take bulbs could be taken out of the beds, whilst they had to be place in summer, and this indeed was the season when business was done. The trade was always in bulbs, even before the mania

arated from the main bulb only after considerable time. immediate delivery became impossible. They could be sepway the speculative element was increased enormously. were also sold without being at once deliverable. In this the whole year. It is likely that soon afterwards main bulbs Accordingly, excrescences could be bought and sold during When the trade was extended to excrescenses or outgrowths,

weight of the bulb; the buyer paid a bigger price for a heavy introduced probably to hold speculation somewhat in check. The number and the quality of the outgrowths increased the There were different ways of selling. Sales by weight were

<sup>11.</sup> Samenspraeck tusseben Waermondt ende Gaergoedt nopende de opkomst ende onder-

op- ende ondergang van Flora. 2. Tweede samenspreack tusseben Waermondt ende Gaergoedt, zijnde bet vervolgb van dent

<sup>3.</sup> Register van de prijsen der bloemen, zijnde de derde t'samenspraeck tusseben Gaergoedt ende Waermondt, inboudende bet vervolgb van den op- ende ondergangb van Flora.

The first editions of these three pamphlets are very scarce, but the Netherlands Economic History Archives (Nederlandsch Economisch-Historisch Archief) has them and has issued

a reprint of them in the yearbook (Economisch-Historisch Jaarbock, vol. xii, 1926).

About eighty of the most important acts have been reprinted in the Yearbook (Economisch-Historisch Jaarbock, vol. xiii, 1927).

bulb, but he also had a much better chance of buying viable excrescences. The unit of weight was an ace (in Dutch aas) being about 1/20 gram (or 1/625th part of an English ounce). This selling system was introduced in the spring of the cultivation year 1635–36.

The weight of the bulb when planted was registered. This facilitated the selling and buying during the whole year, and, contrary to expectations, brought another possibility of speculation, as the tulip was now bought "on the grow."

To further the interest in tulips, growers, and also private citizens of standing (mentioned in the solicitors' acts), promoted a more general culture of the flower, which at first had been of interest only to the wealthy people. The culture extended in amount as well as in kind, new varieties being discovered by the dozen.

Until 1633, or the beginning of 1634, the trade was still limited to professional growers and experts. The real speculation came when outsiders joined in. People who had no connection with bulbgrowing began to buy after this date. Among these were weavers, spinners, cobblers, bakers, and other small tradespeople, who had no knowledge whatsoever of the subject.

About the end of 1634, one may say, the trade in tulips began to be general, and in the following months the non-professional element increased rapidly. Rumors about rising prices paid for tulips in Paris and in the North of France accelerated the movement. New ways of selling were organized. The more common bulbs were sold by the thousand aces; and, soon afterwards, speculation became interested in the very common varieties, which had been hitherto disdained, such as the plain tulips or as they were called gemeene goed (common goods) or vodderij (rags). These were sold by the pound or by the basket; even the very poor now had a chance to participate. Varying with the time of year and the sort of flower, one could now trade by the piece, the bed, the garden, the ace, the thousand aces, the pound, and the basket.

The distinction between the rarer and the more common bulbs was made by calling the former piece-goods and the latter pound-goods. For instance, the Gouda, the Vice-Roy and several other tulips were sold by the ace, being valuable, whilst the Lack van Rhijn was sold by the thousand aces, and the Switsers and Gheele Croonen (Yellow Crowns) were traded by the pound.

The great difference in prices is mentioned in the conclusion of the first dialogue referred to above. A few examples may suffice here. A grower had sold a Gheel en Root van Leiden of 515 aces for \$18; the new owner sold it a little later for \$220. Also a Gouda of 20 aces was first bought for \$8, then sold at \$90. Gheele Croonen at \$8 to \$9 per pound were sold a month later for \$430 and over. A pound Witte Croonen, which cost \$50, was sold for \$1,440! It is said that for one town in Holland the total sales amounted to ten million

dishes, horses and carriages, land, houses, shops, and paintment, such as cows, fruit, wine, yards of cloth, clothes, silver out of the ground. Towards the boom in 1636, however, delivered at once, often long before the bulb had been taken the most heterogeneous lot of goods was accepted in paya counter value, mostly money at this period, which the purest gamble, the seller selling bulbs he did not have against height of business most transactions took place without any the tulip would really come into their possession. At the they did not pay or deliver their goods till they were certain buyers of bulbs often knew that the seller possessed none; so ings.7 The usual condition was for these various goods to be could make a profit — at least on paper — of several thouware for higher prices; and, in the general excitement, one basis of goods. The trade in futures had degenerated into these high profits. All classes of the population ended by sands of florins in a few days. The craze spread rapidly with buyer did not possess. Each succeeding buyer tried to sell his It often happened that the price was not fixed in money;

This shows how early the products of the Dutch artists were popularly appreciated

taking part in it —intellectuals, the middle classes, and the laborers.

societies, called colleges, into which newcomers were admitted. They met in public houses which newcomers were adalso ate and drank. The task of these colleges was to bring copied, one from the other. correct. There were far too many of them to speak of them as ways. New organizations were founded, in which the novice the same in the different organizations. Probably they were about the deals, applying a few rules, which were apparently exchanges has sometimes been made, but this is not quite wild speculation could not use such elaborate and tranquil authorities. A comparison between these organizations and people without any control by, or co-operation with, the buyers and sellers could meet; these were meetings of private man in the street this was too costly and too unusual; the contract had been made out, often before a solicitor. For the ways of making them were also changed. Previously a written When the number of deals had increased so rapidly, the

At the colleges there were two special methods of trading. One was called "with the plates," the other, "in the naught." In both cases wine-money or wine-seal had to be paid if the deal came off. At the colleges the name of each prospective buyer or seller was inscribed. When the first method was followed, each in turn got the plate, that is, had to bid for something. These plates were wooden discs on which were inscribed the units, the decimals, the hundreds, and the thousands. Those who wanted to sell also had plates, but could not offer their own goods. If they discreetly hinted they wished to sell, they would probably get the plates for it. In that case, the buyer and seller, together with their proxies, went whispering into a corner, and, by over- and underbidding, finally agreed on a certain price which they said

aloud and which they also indicated on the plates by putting a dash behind the corresponding numbers. This was done to deal was to be concluded. Leaving these dashes meant agreeamount of which had been previously fixed, being from two ing; wiping them out, refusing. If either buyer or seller rereceived; accordingly in the Dialogues Gaergoedt speaks of the wine-money simply as the "three's." Concluding a ers. When prices rose, this was the usual amount paid or wine-money was the same for all contracts above 120 guildwith the obvious aim to keep up spirits. Consequently the deal. This was then spent by the seller on his food and drinks, been completed, the maximum being three guilders for each paid by the buyer as wine-money, when the transaction had to six pennies. A halfpenny out of every guilder was to be pennies to the other as a kind of consolation money, the fused to deal and wiped out the dashes, he had to pay a few prevent any quarrels as to the exact amount at which the wine-money alone, besides being provided with plenty of certain number of deals per day, he made quite a profit out of food and drink.1

Whilst "with the plates" the price was fixed by private bargaining, buying "in the naught" meant price determination by auction. On a slate a simple design was drawn, having in the middle a naught. In this way the seller could not only take the initiative, but he also could stimulate the desirability of bidding by putting a number of pennies in the "naught," mostly between two and six pennies as premium for the highest bidder. Someone acting as a secretary wrote this amount in the circle; then the bidding proceeded by ordinary auction till the highest bid was reached. The money in the "naught" was for the highest bidder whether the deal was concluded or not. If the transaction was completed, the wine-money was paid for by the buyer in the same way as "with the plates."

It is curious to note that the real tulip amateurs, those who had the means and who were willing to pay a very high price

<sup>8</sup> Besides this there was ordinary Dutch auction. This means beginning with an extremely high price, then coming down slowly, till someone cries out "mine," therewith becoming owner. In Dutch this kind of auction is accordingly called "to mine."

<sup>&</sup>lt;sup>1</sup> See below, p. 451.

<sup>&</sup>lt;sup>3</sup> See below, p. 457.

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and went down after the crisis; but they continued to buy course prices rose for them, as the mania reached its climax, the speculators. bulbs for large amounts, when they were unsalable amongst for rare varieties, kept outside the speculative current. Of

this made it easier for them than for other laborers to take towards this seemingly favorable opportunity. They had a ers. The weavers were passing through economic difficulties weaver and may be taken as an example of his fellow-sufferjoin those who traded in the common bulbs. the colleges. They constituted a relative élite, refusing to begin with, and it seems they were held in special esteem at part in the tulip trade. They at least had a small capital to few possessions, not only looms, but often also small houses; This was the main reason for their greedy reaching out and their position as independent masters was threatened. conspicuous; Gaergoedt, in the Dialogue, was himself a were fond of enumerating all the trades of which the members day are mostly about these happenings, and the authors classes were involved in this craze. Satirical songs of the speculation, being more interested in the exchange of securihad taken part in the speculation. The weavers were very ties and goods. Many of the lower middle and the working The big merchants showed but little interest in the tulip

who sold "in the wind." Towards the end of the boom the latter were rapidly exceeding the number of bona fide sellers. those who sold bulbs they had in their possession, and those categories. At the colleges two classes can be distinguished: The speculators themselves may be divided into several

vistas opened out. No one cared which bulbs were to be began to take place per thousand aces, or per pound, new instance is one "Gouda" of a number of aces. When sales especially designated bulbs of a certain weight; the classical were held more or less in check by the fact that they sold ing of the people meeting at the inns. At first all these groups were engaged in by people who objected to the social stand. Outside the colleges a number of equally speculative deals

delivered. Not "Goudas" of a certain weight, but any

a crisis became inevitable. It was not the fact that one sold without possessing — this number of bulbs weighing a pound were good for delivery. active speculation of the colleges run into such madness that possibility, created by sales of fungible goods, which made had happened quite often before - it was the unlimited

and the genuine consumers were untouched, but the higher not be evaded afterwards, and which were, of course, the money to start with. Debts had been incurred which could says 3 that he had put a mortgage on his house to have some saved when the final settling of accounts came. Gaergoedt so far as they did not consist of eatable goods, could not be strangely with the rest of their surroundings, and which, in artistic objects, or things of luxury, which contrasted had. They had often come into possession of a number of to lose. The weavers and similar people lost the little they many speculators could not lose because they had nothing and lower middle classes suffered heavy losses, while again extent of their speculation, as will be seen later. do people the losses were not heavy, compared with the heaviest for those who had but few possessions. For well-to-The effects of the debacle varied widely. The big merchants

that "this year" (meaning the season 1636-37) "it has been a madness." placed in the autumn of 1636. Gaergoedt says in his Dialogue The degeneration of speculation into a pure craze may be

indicated: "It is not till the last planting, which is in Octo-1636. In the conclusion of the first Dialogue the same time is nulled. That would have been in September or October, have taken place since the last planting time should be andated March 7th, 1637,1 says that the deals in flowers which brought the prices to a great height." ber, earlier or later, that people have sold the bulbs and A decision of the Burgomaster and Governors of Haarlem,

See below, p. 453.

See below, p. 463.

the thousand aces and per pound. extended to the common varieties, and bulbs were sold by started, while in November of the same year the trade was and soon thereafter the trade in non-available bulbs was introduced. About the middle of 1636 the colleges appeared; some article of value; at the same time the sale per ace was action. Towards the middle of 1635 prices rose rapidly, the end of 1634 the new non-professional buyers came into while people could buy on credit, generally delivering at once I think the sequence of events may be seen as follows. At

mentioned, which puts the stagnation on February 2nd or possibility of the tulips becoming definitely unsalable was of eight days against possible losses. On February 4th the mania was more especially localized, insiders still advised trouble began on February 3rd, 1637. At Haarlem, where the people to buy on February 1st, with a guaranty on their part believe the author of the Dialogues when he says that the The crisis came unexpectedly. There is no reason to dis-

taken into consideration by the authorities when they tried the deals concluded by the florists. This institution was to make new regulations for the tulip trade. kind of voluntary court of law, which in this way looked after between buyer and seller in case of disputes. They formed a they seem to have constituted a commission, which decided to regulate the impending difficulties. In the previous months It is curious to see how very quickly the florists took action

24th, 1637.7 Present were delegates of the florists from the Vianen, and de Streek. Their aim was to find a common Haarlem, Hoorn, Leiden, Medemblik, Rotterdam, Utrecht, towns of Alkmaar, Amsterdam, Delft, Enkhuizen, Gouda, plan was due is unknown, but it took place on February meeting at Amsterdam. To whose initiative this Amsterdam Utrecht to assign delegates to represent them at a general As early as February 7th a number of florists met at

7 Cf. below, p. 462.

accept the resolution. The reason for their attitude is not regulation to prevent the ruin of the bulbgrowers. They were adherence on condition that their mandators approved of it. cities, while Enkhuizen, Hoorn, and Medemblik gave their mentioned. So the decision was accepted by only twelve not very successful, for the florists of Amsterdam refused to

decided that sales of tulips on November 30th, 1636, or earchaotic situation till the government took things in hand, March whether he wanted the deal to be performed or not. buyer was given the right to reject, if he paid 10 per cent of the sale price to the seller, and if he definitely made known in lier, were to be executed. Transactions of a later date the The resolution which aimed at bringing order into the

amongst which were Haarlem and Hoorn, sent a petition to value, as the uncertainty remained. At last several cities, the highest authority had not spoken, this was of little ion that the contracts should be cancelled, but as long as Governors of the City of Haarlem declared it as their opinpetent to intervene in these matters, still kept aloof. The the Government of the Republic. The "States of Holland" which was the only body com-

ning of the crisis, they appealed to the Court of Holland oto once. On April 11th, more than two months after the begincharged of their obligations towards the sellers "without gave an important decision.1 The data which the Court posgive them counsel in these matters. All these weeks commerce damage." The States of Holland did not make a decision at magistrates had to bring together the persons between whom of the different cities. On the basis of these data the said Court, this could be done most efficiently by the Governors new information was to be asked for. In the opinion of the sessed, were stated to be insufficient for a definite sentence; was left in uncertainty. A fortnight afterwards the Court The general desire of the buyers of bulbs was to be dis-

<sup>6</sup> Economisch-Historisch Jaarbock, vol. xiii (1927), p. 7.

<sup>&</sup>lt;sup>8</sup> The highest authority of the Province of Holland.
<sup>9</sup> The High Court of Justice in the Province of Holland. 1 See Economisch-Historisch Jaarbock, vol. xiii (1927), p. 58.

growers, generally speaking for speculators, pending another could recover the eventual difference from the former owners. government decided to maintain the contracts, the growers a dispute had arisen. If this was impossible, the information This actually meant the proposal of a moratorium for noncepted tulips at the risk of their owners. If, later on, the Till then all contracts for the sale of tulips were suspended. were to be authorized either to keep or to sell the non-acproposed the following temporary rules: the bulbgrowers was to be sent on to the Court. In the meantime the Court

spoke was never promulgated. growers, much more onerous for buyers, was put aside. To in their resolution of April 27th, 1637.2 The proposition of the my knowledge, the definite regulation of which the States The States of Holland accepted this advice almost literally

ary 24th, followed the measures taken by the Governors of of them, the notable exception being Amsterdam, which available are only for a few of them. But it is likely that most Haarlem. professed a different opinion as seen in the meeting of Febru-The course of action of many of them is unknown; the data The matter was now in the hands of the city governments.

to ushers and messengers to abstain from bringing them. issue any protests or summons, whilst the order was given by the Burgomasters and the Governors of Haarlem not to On the first of May, solicitors and notaries were informed

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as appeal to the law for these contracts was now impossible. there are also a great number of persons unwilling to pay or even five, which was the utmost, out of a hundred . . . Yes, their contract by paying 4 or 5 per cent at the most; many The results can be judged from a declaration of one of the Haarlem solicitors, Van Bosvelt, that honest people met people compromised by paying one, two, three, four, yes, paid nothing at all.3 As the solicitor put it: "Only a few honest 3 See below, p. 463. This was, practically speaking, a moratorium for Haarlem,

See below, p. 464.

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occurred elsewhere, in the city of Gouda and in the Northern owners, hoping to recover the difference from their persons or their goods. This met with little success. A similar situation tion given by the States to sell the bulbs at the risk of their Quarter.4 to compromise." Many growers made use of the authoriza-

centage by the buyer, the contract became void, the bulbs amicable agreements, their decisions were to be binding. This of this commission was changed; instead of trying to promote commissioners nominated on "the questions which have 1638, an instruction was published, setting forth rules for the above, this was not of very great importance. taken to allow an indemnification to the sellers. But, as seen whole of 1638. So, at least in Haarlem, measures had been remaining with the seller. The commission sat during the many unsolved difficulties. A few months later the character moratorium; their aim was to find a compromise for the to be held twice a week, at least three members being present. ing the fulfilment of a contract of flowers. The sittings were They could summon anybody who was in a dispute concernwas composed of five members and had an official status. come forth from the flower trade." This time the commission controlled the fulfilment of the contracts. On January 30th, the above-mentioned commission, which during the boom of the States and which may be seen as an extension given to satisfactory solution. A supplementary measure was taken by bought off by paying 31/2 per cent. After payment of this perpower was granted to them by the city council on May 28th, This commission could not be considered as abrogating the the parties were left too much to themselves in trying to find a cient to bring order into this complicated situation and that 1638, with the stipulation that the contracts could be Haarlem in 1638, which was in harmony with the resolution It appears clear that the action of the States was insuffi-

<sup>&</sup>lt;sup>4</sup>Meaning the cities to the north of Amsterdam, <sup>6</sup>See below, p. 465, <sup>6</sup>Cf. below, p. 465,

however, there was no loss at all; they had sold what they did came off with a payment of a small percentage. For many, a general disaster. Naturally, displacement of wealth took crisis in 1637, but several factors prevented it from becoming course the economic life suffered a severe shock from the them; these sales were all annulled. Considering the enornot possess, to someone who lacked the means of paying lost all they had paid in anticipation, but the majority place and losses were suffered, much heavier for the relarisk and tried to get from him the difference in price, they use repeatedly of their right to sell the bulbs at the owner's without getting any money in return. Although they made most of all by the crisis, having grown and sold their bulbs, total of the deals amounted, we may say that socially the mous sum of several tens of millions of guilders, to which the tively poor to bear than for the wealthy. A certain number the extension of bulbfields. The culture was again limited to centage. Another consequence was the necessity of reducing hardly ever succeeded in getting more than a small perlosses had been very small. The growers had been affected ture seem particularly suited for bulbgrowing. those grounds between Haarlem and Leiden, which by na-This was the end of the liquidation of the tulip mania. Of

atmosphere in which booms are said to grow. The country getic class of merchants, together had created the optimistic new economic and colonial possibilities, and a keen and enerture. The conditions now generally associated with the first find this seventeenth century example of a very curious nathe knowledge of modern cycles and their turning points, we was increasingly prosperous. period of a boom were all present. An increasing currency, Viewing the tulip speculation and its crisis in the light of

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dens. We may assume a steadily increasing demand for tulips which continued even after the crisis. The propaganda of the tulip — a novelty — was growing in favor as a flower for garbulbgrowers was the first move on the side of the producers, Amsterdam constituted a center of consumers, and the

> shares of the East India Company. cial complications which accompanied a deal in spices or in very limited intelligence could understand, needing none of the buying and selling of bulbs was a matter which a man of environment. The cultivation was something easily learned; to the poor, who saw the tulips growing in their immediate of speculation. It was a familiar and well-known thing, even perhaps be found in the very peculiar character of this object interest. An explanation for the further development may whilst rumors of high prices in France fanned the growing the involved, and to them, awe-inspiring technical and finan-

any future possibilities. as this uneasiness was expressed, the whole tower of prices very well as an example of the "psychological" theory of credulity of the simple minded. This fluctuation would do discrimination, believing all the rumors and fancies with the collapsed in one or two days, everybody now disbelieving in the craze spread, till at last doubt began to arise; and, as soon business cycles. The heated imaginations went on and on; beyond the very limited circle in which they moved, and no means. They had no control, no knowledge of the market features of a speculation of non-professional people of small As soon as the movement was started, it began to show the

ening speculation, this time in the bulbs of hyacinths. The served to recall the spectacular boom of older days. rise of prices, however, was very limited, compared to that of 1636 and 1637. A very small speculation in gladiolas in 1912 popularity; in 1734 a reprint was made of the *Dialogues* of Waermondt and Gaergoedt to warn people against a threat-After the crisis, the tulips continued to enjoy increasing

000,000 guilders or about \$18,000,000. prices; and the total of exports in 1925 amounted to 45,between the dunes and the clay soil, now fetches very high mously. The land suitable for bulbs, limited to a certain strip Since 1636 the cultivation of bulbs has increased enor-

# EXCERPTS FROM THE THREE DIALOGUES'

(1) FIRST DIALOGUE BETWEEN WAERMONDT AND GAERGOEDT ON THE Rise and Decline of Flora (1637)

Waermonds: God give you good-day, my special old friend Gaergoedt, how are

Gaergoeds: All is well with me and the florists. We live in joy and remain content. But come in; we'll have a talk near the fire.

W. I thank you, but I have to go elsewhere.
G. No, you are not in such a hurry. I must to No, you are not in such a hurry. I must tell you something and I will let you leave, when you will.

Well, because you want it, I will do so. My friend, sit down there. Here, Ann, bring wood and peat; I have speak with my old acquaintance. Where have you been for so long? Give me the bottle of brandy, or do you prefer Spanish wine, or a good drink of French, or a nice draught of beer?

You name so many things that it is difficult for me to choose.

છ.₩ We florists have now everything that is needed, for a little flower can pay for

W. All is well when payment goes as fast as hope goes. For many a farmer sows corn but reaps stubble.

No, this commerce goes too certainly. Now do drink: Your health.

I thank you. I drink yours. But what delicious stuff is this?

meat, my wine, my beer; I have it all for nothing; so many transactions I This all comes from the noble Flora. Lately I was with a brandy distiller to whom I gave a flowerlet in return for this bottle. This I do, as a rule, for my have done this whole year.

W That is good business, getting so easily such profits; all tradespeople and spoiling the goods by leakage or losing them entirely. chants speak of their great losses, as well from piracy as from heavy storms workmen complain of the great dearth and the small turnover. Yes, the mer-

9 more than sixty thousand guilders, and that within four months. You need Well, I too know something about that. But now that I have the flowers, I have done nothing but make profit; and, let it be said here, I have earned not repeat this.

Well, that's a big profit. Have you already received it?

Not I, but have the people's writing.

professions are nowadays usually understood. By "producent" is meant one who brings a English presented some difficulties, but the aim has been to change the phrasing as little as <sup>7</sup> The language of the dialogues between Waermondt and Gaergoedt and of the solicitors' acts is that of the seventeenth century, involved and obscure. The translation into modern case before the solicitor, without necessarily asking for summons. called notary, but his position would be a blend between a solicitor and an attorney as their acts and who also had the right to issue summons but who was no barrister. In Dutch he is is compatible with clarity. The name "solicitor" is used here for the person who made out

The unit of money in Holland was, and is, the guilder (gld.) or florin (fl.). It is perhaps not necessary to say that the purchasing power was then considerably higher than now. The present gold parity between the guilder and the dollar is gld. 100 to \$40 3/16

For these Dialogues in the Dutch, see Economisch-Historisch Jaarbock, vol. xii (1926),

TULIP MANIA IN HOLLAND

W. Well, what shall I say, and how good an offer is this? But if I had this stuff That is much. You would almost make me want to join in.
Well, if you feel like it, I will sell you a small shipment and because you are a good man and my special friend, I will give them fifty guilders cheaper than to another. And I add that, if you have not gained a hundred rix-dollars within a month, I will meet you for so much.

I will tell you. You must go to an Inn; I will name you a few. I know of few or conversation, and somebody is interested, you are almost sure to have it bid goods. You may not put on auction your own goods, but if you drop a hint in everyone who is present at this company has to give plates, beginning with whore in the brothel, and so on, but don't take any notice; that goes with it. you are a newcomer some will squeak like a duck. Some will say, 'A new whether there are any florists. If you then come into their room and because how should I get rid of it? Will people come to me or must I go and present it? for or to get the plates on it. the one at the top of the slate. He who holds the plate must ask for some Your name will be put down on a slate. Now the plates go round. That is, none, where there are no companies or colleges. Being there, you must ask

ers, he gives three guilders, even if the total were a thousand guilders or more. What is done with this money? a halfpenny for every guilder and if the deal is a hundred and twenty guildat others three, even five or six pence. If the deal has come off, the buyer gives asked in excess. The men find the value: each gets a dash on his plate. Then indignantly, when he hears the claims, offers as much less as the other has if it is worth a hundred, by way of speaking. Then comes the buyer, and very your dash on your plate or disc. If the buyer and the seller both leave their dashes, it is a deal. If, on the contrary, both wipe out their dashes, there is no man. The seller first goes to the man, and claims for his goods two hundred, has been fixed beforehand by the company. At some places it is twopence and deal. If one of them leaves his dash, the other one is put down for a sum which the men say the price aloud: if you have found it to your liking, you leave If the plates are given on your wares, the buyer and the seller each choose a

Should one not drink? Tobacco, wine, fire, light, are paid with it; the poor are remembered and the girls.

Can this amount to such a sum?

even fowls and rabbits and sweets to finish, and that from the morning till then I had eaten and drunk wine, beer, tobacco, cooked or roast fish, meat, Yes, the wine-money often produces more than that. I have been on several three or four at night. journeys, when I brought home more money than I brought to the Inn. And

It is very pleasant to be treated like that.

Yes, and I made a beautiful profit too. I made six or seven little three's, for I dealt in about twelve thousand; the three's fell like drops off the thatch when

છ ₹ Most unheard of things I am told, but will it last?

If it only goes on for two or three years, it is sufficient for me.

9 Now take a drink and if you want a shipment, I will give it to you on writing, which you can take with you; you may go freely to someone who knows someor whatever way you like. I have a register from which you may choose a few, thing about it, and ask him.

You offer me a lot and I do not know whether I dare accept. I fear once I

TULIP MANIA IN HOLLAND

I stay with my poor business and my own profession. I make no great profit another, so one deal would bring forth the other, and so, methinks, it is better start, I will want to go on with it, again and again. And as one wave drives on and suffer no great loss.

9 it's summer and then you have sold all your stuff; or if you have any on hand That's well said. But could you not venture a little? You give no money till

you plant it and it brings still more profit.

W It is well for those who have enough money, but for me I do not find it good

You can barely earn ten per cent on the money that is in your business, and advice. For if I have a penny, I must put it into my business.

even then only by giving a caution, but with Flora it is cent for cent. Yes, ten

W Vainly have I done such hard labor, and have many parents slaved and ous seas, for the soldier to risk his life for so little gain, if one can make goods overseas, for the children to learn a trade, for the peasants to sow and toiled. What need is there for merchants to have any style, or to risk their profits of this sort? . . . to work so hard on the soil, for the skipper to sail on the terrible and danger for one, a hundred for one, and sometimes a thousand.

Here is a register of the most important bulbs which I still possess:

Admirael van Enchuysen. Croon Gheele. Coorenaert. Branson Clompmaecker Blienborger laete. Blienborger vroege. Bruydt van Enchuysen. Bruydt van Haerlem. Bellaert. Brabanson Spoor. Brandenburgher. Bruyne Purper. Alexander. Argentiers. Anvers. Butterman. Beschuyt-backer. Audenaerde. Brabanson. Buseloo. Witte. van Enghelandt. van Weenen. Catelijn. Ghelder. van Eyck. Rotgans. de Man. van Hoorn. Crijntghes. Liefkens. Cent. Camelot Coopal. Columbijn with white, red, and silver Camelot Cromhout. Generael Nieuw'lander. Ghemarmerde van Caer. Gheel ende Root van Leyden. Ghevlamde van Cenecourt. Gheblutste. Gideon. Caesar. Cenekourt. Columbijn de Meester. Generalissimo. Goliat. Ghedeelde. Ghenerael de Man. Gouda. Egmondt or Rechteroogh. Elsevier. Duyck meen ick. Dr. Balten. Haeghenaer. Hoe langer hoe liever. Groote Gheplumiceerde. Groote Standaert. Fabri. Dolabella. Duck Flory. van Goyer.

> Palto. Perel. Nons Wit vroeghe. Purper ende Wit Jeroen. Nieuw'borgher. Neete Branson. Moytjes Moy. Lion. Olinda. Nieuw lander. Marveilje van Quaeckel. Meterman. Lack Paspoort. t Landjuweel. lncarnadijn ghevlamt, van Quaeckel Jory Naby. Mercurius. Moye Duyck. Max van de Prins Le Grandt. lncarnadijn Branson. atour. an Gherritsz. offrouw. arssemaecker. Pieter Christiaensz. de Hooghe. van Rijn. " Kramer. " Bosschaert. " Verwint. " Laeckeman. Vice Roy. Violet gheboordt Rotgans. Trojaen. Spits Lack van Quaeckel Swijmende Jan Gerritsz. Wit met roo tippen. Sori Liefkens. Sayblom van Spoor. Petter. 't Weeskint. Tulpa Bitter. Tournay Catelijn.
> "Heemskerck. Spinnekop Verbeterde. Scipio Africanus. Schrijnwercker. Schilder. Seylstract. Roosjen. Rattebeet. Root ende Gheel verwint. Rijswijcker. Root ende Wit verwint. Parragon Liefkens. Present Liefkens. Provenier. ourlongh. Reynout. Stam. Ghelder. Ghemeene. Bol. Coningh.

G. Of these I have several plants, big and small, each classified as to its value. Often you will need pound-goods as Croonen, white or yellow, Switsers, Rijswijckers, Gebhiesde van Coorenaert or other rubbish, or a thousand-ace Centen, or other stuff. I have many others with me, possibly for eighty- or Admirael de Man, Gheel ende Root van Leyden, Audenaerden, Coorenaerts, ninety-thousand guilders.

You must have given quite a lot of wine-money for it. Yes, that is true but I am glad to give it. The wine-money is as a scal to a letter.

I could not gather so much money.

something to start with, and I had to establish relations, but after that, when sold all I could move, and I have also mortgaged my house. I had to have all this silver. And so from the one to the other, that is true navigation. . . I sold a big consignment, I commonly claimed a part in cash. From that I got In the beginning it has been somewhat difficult for me also, for I took and

ç. the plants were rising to very high prices. Until the suspension of sales the When the last planting had taken place, which is in October earlier or later,

Verkeerde.

month's time it was 1,200 gld. and over.

A pound of Switzers first cost 60 gld., later 1,800 gld.

pound of White Croonen first cost 125 gld., later 3,600 gld. thousand-ace Admirael de Man first cost 90 gld., then 800 gld. thousand-ace Scipio first cost 800 gld., then 2,200 gld.

thousand-ace Vice-Roy first cost 3,000 gld., then 6,700 gld. thousand-ace Coorenaerts first cost 60 gld., then 450 gld.

thousand-ace Audenaerden first cost 70 gld., then 600 gld.

thousand-ace Centen first cost 40 gld., then 350 gld.

A thousand-ace Gheele en Root van Leyden 100 gld., then 750 gld. A pound of Goliats, Rijswijckers, Ghebiesde van Coorenaerts, and Ratte-

name of tulip was sold. money. The Goliats for 700 gld., Rijswijckers for 800 gld., Ghebiesde van Coorenaerts for 250 gld., Rattebeten 300 gld. In short, all that carried the beten which one could get first for a small price, has been sold for heavy

of aces. Everything was worth money and so current that one could get in exchange almost anything one desired. And all this with promises and vouchers, and children were brought into this commerce and at these colleges. And al have taken place in flowers, as they say in some places of East India with conches, and many payments had already done so. How harmful this was for when the bulbs were in the earth. If this had gone on, all payments would even Single Coleuren were getting value, and were auctioned in thousands was clad in his glory, still they are not a necessity and should only be paid for though the flowers surpass all pearls and precious stones in which Solomon trade, I need not say. Also it was scandalous and improper that youngsters Double Coleuren (early ones) up to 150 gld., late ones 40 and 50 gld. Yes, in basketfuls on the dung-heap has been sold for heavy money. Such as: from the superfluous. . Yes, it has gone so far that the stuff which used to be weeded and thrown

### (2) SECOND DIALOGUE (1637)

G. I should like to hire a man or two, but I can't find anyone. I have interviewed one or two, but one said he had signed for a sea-voyage, the other wanted to peddle, still another would not stay here; each was afraid of the

Why is that? summer.

They all have traded in flowers.

What do you say:

Who has not been in it?

W. I have not touched it and I suppose there are others with me.

That is good luck.

## TULIP MANIA IN HOLLAND

W. That commerce seemed to me too dull and too brainless. Everyone thought make coaches and light carriages, horses were bought, and all grandeurs were bigger master than the other. imagined. No one knew how high he would rise in his estate. Each was a he would be rich this summer. All the coach-builders were fully booked up to

That is the truth; I was just glancing at my book.

Is that the one lying near you? Yes, it is.

Such a big book; show it to me. But that is strange bookkeeping!

Look, that is how I planted them, and also how I sold them

For curiosity's sake I should like to draw it.

another time, but not now. You may do so, but not the price for which I bought or sold; I will do that

W. I am only interested in the method.
G. Draw freely what you desire.

Draw freely what you desire

145 Le Grand	116 Petter	92 Gouda	62 Tourlon	19 Admirael de Man.	
900	112	100	150	370	Aces
150 Parssema- maecker	120 Provenier	95 Admirael Catelijn	68 Tournay Catelijn	24 Latour	
205	307	320	670	600	Aces
155 Bellaert	125 Spinnekop Verbeterde	101 Vice-Roy	70 Groote Standaert	36 Lion	
270	600	510	1,180	280	Aces
160 Brabanson Spoor	130 Audenaerde	112 Grebber	90 Goliat	42 Groote ge- plumiceerde	
532	500	440	135	780	Aces

number next to it indicates the aces of the weight.
For example: folio 101. Sold 1 Vice-Roy to N. N. of 510 aces, which I had flower is the folio, where one can find how one has bought and sold: the With the letter A, the bed is indicated. The number above the name of the

of 3,4∞ gld. bought from N. N. for 900 gld., standing on bed of the letter A, for the sum

I see it sufficiently.

and possessed one estate or another. I never thought I would weave again. Yes, when I used to take this book in hand, I thought I was sufficiently rich

Yes, I wish there never had been flowers in the country. But have I not heard, my friend Waermondt, that the delivery will continue?

Yes, I have heard so too.

My dear, what is this about?

W. I have heard that a few deputies of the companies of florists of different

should pay 10 out of a hundred, that is from 1,000 guilders a hundred. ing the great inconveniences which have come in the selling and buying of flowers, and that the money which has been promised cannot be found. Each towns have met on February 23rd, 1637, and have thought of a remedy, see-

G. That brings me no help, even II I paid and I won lettle! And understand it W. O, what a man you were last time; have you now so little! And understand it won had sold a Gouda of ten is like this: supposing you were a planter, and you had sold a Gouda of ten aces for thirty guilders which had been sold again for 60 gld. and again for 100 gld. and again for 200 gld. and there it stops. So that the one who has sold for comes to the one who sold for a 100 gld., who could, in the same way, give ten per cent of 60 gld., and so on, till it reaches the planter. What a commotion! two hundred gld. should pay ten gld., and if he did not care to keep it, it

Well, can you think of anything else?

bad end, the people with any means will have to pay the piper. I hear what all this business has been. A brainless commerce, as I said, and I do not know of any good advice. I even do not know, whether I want to go yes, by children and boys who live from alms, that, since all comes to such a on. But is it always to be, as they have now decided, or is it only provisional? There have been so many transactions, and so many by insolvent people,

against all good business ways. Some thought it true, that to promise was to pay, and forgot it was only bidding. . . .

Ours are real transactions; we have given writing and signed it

I should like to see it.

dam, Alckmaer, and other places. Very well, I will fetch them. See, there are several, from here, from Amster-

the naught," signed by me. planted, 375, aces, for 70 gld. growing, standing in the garden of N. N. Am, Alckmaer, and other piaces.

On November 12th, 1636, sold to N. N. a Ghemarmerde de Goyer,

And then one writes against this, as you may see here on this note: on December 9th, 1636, bought from N. N. a Gheele en Root van Leyden, 578 aces, for 70 gld., standing in the garden of N. N. with the plates. Signed by

See this other one.

submitting same in the power of all rights and magistrates; all this without arch or cunning. Have signed this. Act in Haerlem on December 12th, 1636 the aforesaid sum, I hereby engage all my goods, movable and immovable, town, where this transaction has taken place. And by default of payment of praiseworthy people, who know of these things and who live in the place or standing or dispute arising out of this transaction, it will remain with two when less, has to pay the difference. In case of any obscurity or misundermay sell it anew. If he gets more for it, the first buyer will not profit by it, and, if a fortnight after this, the bulb has not been fetched by the buyer, the seller ground, in the presence of two praiseworthy persons, and seal it in a box. And hercunder mentioned, one Gouda of 48 aces standing planted in N. N.'s garden, for the sum of 520 gld. in sterling. But in case 8 days after the notifying, the buyer were not to come to take the bulb, the seller may take it out of the I, the undersigned, acknowledge to have bought from N. N., on conditions

We, the undersigned, namely I, N. N., acknowledge hereby to have bought from N. N., and I, N. N., to have sold to the same N. N., one Uytroep of

### TULIP MANIA IN HOLLAND

when dried up properly, 275 gld., and what it weighs more or less to add or 1,060 aces, planted by the seller, and I will pay to him for each thousand ace,

In case I, the buyer aforesaid, having been notified 8 days before, do not appear on the day of delivery, I, the buyer aforementioned, declare that I own authority, sell anew the aforementioned sealed merchandise, renouncing nesses, shall take it out of the earth and seal it in a box. I also consent that, if shall remain content that the seller, in the presence of two praiseworthy witthis, to the aforementioned seller. the profit, and agreeing to make restitution for the damages coming out of the bulb, and after prompt payment, the seller aforementioned can, by his I, the buyer aforementioned, fail to take receipt 8 days after the taking up of

And in order that our actions and promise may be all the more surely ful-filled, we promise to give now and in the future to this our contract such force and value, as if the solicitor and witnesses had passed it. And be so liable, as if it were a sentence of the magistrates on which condemnation had

However, in case any question, dispute, misunderstanding, or obscurity might arise between us, we declare on faith and piety to remain contransaction has taken place. understand these things, residing in, and frequenting the place, where our whether to our loss or to our profit, by the customs and by the people who tent, that the same, whatever it is, shall be determined and decided, and

trary. And also we engage our persons and our goods in case of default, as aforementioned, submitting to all rights and all magistrates. N. N. N. N. We, therefore, renounce like persons of honor all exceptions to the con-

Of this nature are most of these vouchers, all of the same content.

W. Yes, these letters have been made to pay, and they seemed to constitute a good transaction and therefore everybody ought to see for himself that he was not acting thoughtlessly or that he saw his way to pay. But what would

I do not know of any remedy, because of the trend of the times, and because anyone who has kept any goods must go on with the blame. . . through all these defaults the goods have been distributed in such a way that so many have bought, who did not possess a penny. On the other hand be good advice for the present?

W. But tell me, what does it mean, "in the naught," as is said on some of these vouchers, as well as "with the plates?"

is put under the letter, half the wine-money is charged, but if "in the You know the meaning of the plates or the discs; I told you last time. If that naught," it is different.

Well, do these dealings take place in a different way than with the discs?

Yes, look, I will explain to you. If the discs or the plates have been round, one called "the naught," is written the amount which is given to the highest thousands of guilders; in the middle one, the hundreds. In the full circle, takes the slate and draws on it thus: in the upper half circle one writes the the guilders and the pennics. bidder. Under "the naught" the tens of guilders are written and beside that

One asks if anybody wants to put something "in the naught." If there is somebody, as happens always, he puts something "in the naught." Supposing it is a Gouda of 30 accs. One says: who bids, he who bids highest shall have a double pence, or three, four, five, six pennies; this depends on the place, and

one bids? No one, once, twice, no one bids? No one? Before I go on, I must tell you, he draws a circle round three dashes he has drawn previously. no one wants to bid higher. Then the one who sits next to the slates says: No 100, another 25 better, still another 150, another 200, till it finally stops and how you think the company will write. Then one says 50, another 75, another

one gives as much wine-seal as "with the plates." a line through the circle and if the buyer wants to give the goods, the deal is accomplished. If not, he has the money for nothing, say the two, three, four, five, or six pennies as has been put "in the naught." If the deal is concluded, Then he says: No one, once, twice, no one more, another time, no one a third time, no one? For the fourth time, the right is forfeited. He then draws

W. Well, see, is that the way, so even children could deal.
G. It is in this way, that the grantest and the first see.

It is in this way, that the greatest number of three's are made. . .

### (3) THIRD DIALOGUE (1637)

I have noted a few other curious sales, but they are not in this book.

. My dear, show them to me as well. May one speak about these? Why not, read them. Sold to N. N. a quarter of Witte Kroonen for the sum of

now taken from the stable, and led to the seller's house. 525 gld. when the delivery takes place; and four cows at once, which may be

down or transferred at the Bank. which I deliver at once, and also within fourteen days, 1,400 gld. counted which I take to my charge, on top of which he will have one quarter of prunes Taken from N. N. two pounds of Switsers he had bought for 1,200 gld

with cloth for a suit and a coat, worth in the estimate of connoisseurs at least Sold to N. N. one pound of Gheele Kroonen for 800 gld., and honoring him

eight guilders the ell.

change, the other shall deliver tulips of the same value, whilst promising that accept sixteen acres of land, estimated by arbitrators at 16,000 gld., in extwo silver bowls and 150 gld. N. N. and N. N. have agreed that the one shall Bought from N. N. a pound of Witte Kroonen for 3,200 gld., and honoring him with 200 gld. and a silver dish estimated at 60 gld. Handed over to N. N. been sold, estimated at 4,400 gld. he shall buy the excrescences of the aforesaid tulips during five years for a price which is a fifth of the capital sum. On the same conditions a house has a pound Gheele Kroonen, which had been bought for 375 gld. the pound, which sum he takes to this charge; he gives me at once his horse and coach,

Bought from N. N. one pound Centen for 1,800 gld., and giving her my best shot coat, one old rose-noble, and one coin with a silver chain to hang

round a child's neck.

with green velvet and the coat entirely lined. another took from him in exchange for a suit with a coat, as costly as he wanted, and on top of that, 1,000 gld. at the time of delivery. The material tor the coat was at once cut off, and he had it edged with gold lace, the tails Someone had bought a Vice-Roy of 175 aces, planted, for 900 gld. which

saddle, and reins belonging to a horse. 111 aces, for 700 gld. at the delivery; now at once, four rose-nobles, a sledge, a it, and a big picture, being a pot of flowers. Bought from N. N. one Gouda of receiving 200 gld., a cabinet cupboard, made of ebony with a multiple glass in Sold to N. N. one Brabanson Spoor of 370 aces, for 700 gld., on condition of

80,000 gld. to be paid when the flowers are in their season. I will, however Sold to N. N. a garden with flowers and plants, as it stands in its hedges, for

retain a few flowers for myself, which I will choose and which now name, if

the buyer desires it, for a value of about 2,000 gld.

Taken from N. N. a Verbeterde Spinnekop of 400 aces, planted, which he has bought for 700 gld., on condition of honoring him with a hundred ship-

I thank you; I have heard enough; out of all this, those who have knowledge pounds of Edam cheese at once.

છ. That is true. But would you not take note of that sale of flowers in a garden of flowers can easily make out the others. for which the sum of 74,000 gld. was offered?

W. Has that sale been completed?
G. No, some say it was the buyer's, some say it was the seller's, fault.
W. Well, why should I note it then? But, tell me, would these flowers be as valuable now as they were last winter?

I do not think so, because now there is no demand for flowers; everyone keeps second year seedlings, as well as Dobbele Coleuren and others. This was sold were a few Switsers, Audenaerdens, and Admirael de Man's, and a basin with silent. Also some do not desire to sell, they say. On the other hand I have heard that on May 1st a garden has been sold with flowers, amongst which by Dutch auction and has not fetched more than 6 gld.; if they had been sold

winter, they would have made over 400 gld.; at least that would have been 22 gld. I penny. If they had been sold at the moment of highest price in the Audenaerde, one Coorenaer, and all that for a ducat apiece, which is only last year, it would have been over 600 gld. or perhaps 1,000 gld. promised for it. . . Leyden, one Cent, one Switser, one Witte Kroon, one Gheele Kroon, one And I have been with one who offered to deliver one Gheel en Root van

W. It is good that you remind me of it; because I have often wanted to ask you what kind of flower is the Semper Augustus of which I hear so much?

9 That is a beautiful flower; one can but see it at the homes of only two people, one in Amsterdam from which it comes, and also here at the home of one who will not sell for any money; so they are in close hands.

W. At how much is such a flower estimated? G. Who shall say? But I will tell you what I Who shall say? But I will tell you what I have heard about it: about three restriction that the buyer could not sell or alienate it without the consent of years ago, it was sold for 2,000 gld., transferred at once at the Bank, with the him from whom he bought it.

So they might have been worth this winter, say, 3,000 gld.

Yes, even  $6,\infty$ , and possibly more, even if it be a plant of only 200 accs. The flowers greatly surpass gold and silver.

You may say gold and silver, yes, all the pearls and costly stones. It is true, if you consider their beauty when in existence and take into account common folk. esteemed; because the latter are esteemed by great people, the former by consider by whom silver and gold, pearls and stones, and artistic works are by whom the trade is run. But not when you look at their perishability, and

# SOLICITOR'S ACTS AND GOVERNMENTAL RESOLUTIONS

appearing before me, Jacob Schoudt, public solicitor . . . residing in the city of Haerlem, and of the witness described below, David. de Milt, ribbonweaver called the Gouda, weighing each 30 aces, for 30 pence per ace; also two Admirael Houtwech and that he has heard and seen, being continually present, that aforesaid Jan van Damme finally sold to the aforesaid producent two tulip bulbs by profession, about 32 years of age, living within Haerlem, on demand as above, he, the witness, offers to maintain and to confirm at all times if necessary and on van der Eyck's 18 or 20 aces, planted, for 132 gld. and another Admirael van der living out of the Cleyne Houtpoort of this city on the East side of the Cleyne cent has gone, on December 1st of last year, 1634, to the house of Jan van Damme, certified to the truth of the fact that he, the witness, in company of the produ-Eyck weighing 80 aces the dry bulb, to be delivered for the sum of 80 gld. which (1) Declaration of Solicitor J. Schoudt at Haarlem, August 1st, 1635, At the instance and demand of Jan Ocxsz., tickworker, and citizen of this town, Consenting, etc.

(2) SUMMONS OF SOLICITOR J. WARNAERTS AT AMSTERDAM, MAY 9TH, 16361

solicitor Jacob van Swieten on April 24th ult. to deliver the same three tulips. of Cornelis van Breugel according to the act of sale, made out on December 6th 100 aces, and the third an Admirael Lieffkens of 110 aces, standing in the garden an Engelsche Admirael, weight 90 to 100 aces, the other, a General Vereyck of has bought from you, the defendant, one-half share of three tulips, namely one the honorable Symon van Peulenburg, betaken myself to the person of Jan Hendricx. Admirael, and have informed him as follows: that he, the plaintiff, 1635. And he, the plaintiff, has asked the aforesaid Cornelis van Breugel through This day, May 9th; 1636, I have in the presence of, and at the request from

recover as will be necessary. After which the aforesaid Jan Hendricxz. Admirael If the aforementioned van Breugel refuses to deliver, saying they belong to him in entirety, he, the plaintiff, through me, the solicitor, demands hereby immediate delivery of the half share of the three tulips and that you make haste said: I hear and I see. has made, suffered, or lost, or may yet make, suffer, or lose, to prosecute and to the aforesaid plaintiff protests against all costs, damages, and interest which he to sell and to deliver the same as soon as possible. In case of default or refusal,

Act of which at Amsterdam, etc.

(3) SUMMONS OF SOLICITOR W. CROUSEN DEN JONGE AT HAARLEM, July 6111, 16363

the presence of Dirck Janssen and have read to him, protesting and summoning in the name of Martin Kretzer, living at Amsterdam, have betaken myself into Today, July 6th, 1636, I, the undersigned solicitor, and they, the witnesses,

Lieffkens and the excrescences thereof, to be received eight days after the taking Plaintiff to the defendant: as he has sold one motherbulb of an Admirael

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dents which may happen to the bulbs which are now whole and healthy) to be recovered on your person and your goods, when and where it suits him. I await ests which he has already suffered or may still suffer (as well as against all acciomission, he, the plaintiff, protests hereby against all costs, damages, and interoffers to you, through me, solicitor, to make the delivery. In case of refusal or and as the time is now a few days overdue, and you refuse to receive them, so he out of the ground of the same, as proved in the contract, signed by both of you, your immediate answer to this.

I have read, summoned, and protested thus to the aforesaid defendant who

answered: I hear and I see.

nesses of the plaintiff. Done in the presence of Willem Schoneus and Jan Cornelisz. Quaeckel as wit-

### (4) Declaration of Solicitor J. van Bosvelt, Haarlem August 1st, 1636 3

from a certain Ysaacq Jansz. for 6 gld. 10 pennies per ace. However, he, the witness, bought the aforesaid outgrowth on such conditions that he had the of the bulb of a tulip called Admirael Lieffkens, standing then in full bloom, at Amsterdam, in the garden of Sr. Cresser, for 6 gld. 12 pennies each ace. The choice for two days whether to conclude definitely or to cancel the deal. In the months ago (without knowledge of the exact day), from the plaintiff the outgrowth within the freedom of the aforesaid city, that he, the witness, bought, about two very much deceived and has suffered great damage. ground, and the earth scraped off. And by this the plaintiff himself has been the aforesaid tulip Admirael Lieffkens had been looked at, and taken out of the from remarks freely made in other conversation, that they knew for certain that innkeeper here, at the college and in the society of several tulipists overheard, meantime he, the witness, coming to the house of Cornelis Arentsz. Kettingman, plaintiff had bought last winter this outgrowth of the tulip Admirael Lieffkens the request of Heindrick Bartelsz., shopkeeper outside the Cruyspoort, but living Jansz., baker, age about 50 years, living within this city, who has declared, at Appeared before me, solicitor, and the witness below-mentioned, Jeuriaen

ously. He, the witness, knowing this and hearing how the aforesaid tulip Admirael no one would desire to buy for so high a price as he, the plaintiff, had paid previaccount of the profit which he should have made out of him, the witness. To practised on this aforesaid tulip and its outgrowth, and on the other hand, on for the first time, was very annoyed about it, on the one hand, for the deceit the aforesaid deal for which they had paid. He told the plaintiff what he had heard at the place of the aforesaid Kettingman. The plaintiff, who heard this Lieffkens had been treated, he and his . . . on the following day have cancelled which he, the witness, hereby certifies. Because once the exact weight of the outgrowth of aforesaid tulip was known,

Of which act at Haerlem on August 1st, 1636, etc.

(5) Declaration of Solicitor W. Crousen den Jonge at Haarlem August 29тн, 1636 в

Wouter Crouse de Jonge, public solicitor, and the undersigned witness, Juyri-Today, on the 29th day of the month of August, 1636, has come before me,

<sup>8</sup> For the original Dutch, see Economisch-Historisch Jaarboek, vol. xiii (1927), pp. 3-85.

Record-Office Haarlem, Solicitor's Acts no. 133, fol. 144.

<sup>&</sup>lt;sup>1</sup>R. O. Amsterdam, Solicitor's Acts no. 673. <sup>1</sup>R. O. Haarlem, Solicitor's Acts no. 158, fol. 158.

R. O. Haarlem, Solicitor's Acts no. 165, fol. 271.

R. O. Haarlem, Solicitor's Acts no. 150, fol. 185.

solicitor, as having been present during the contagious disease, the plague. aen Jansz., baker, age about 50 years, freeman of this city, and known to me,

presence of his, Pieter Jansz.'s daughter. But Pieter Jansz., himself, has not ap-Came to take the bulb out of the ground, he, the witness, asked the aforesaid Pieter Aleman to be so good as to be present; which has always happened in the excrescence of a tulip Gouda for three guilders 15 pence each ace. When the time to his neighbor, Pieter Jansz. Aleman, during the last time of flowering, the second has certified to the truthfulness and justice of the fact, that he, the witness, sold the beginning till the end; he has also inspected the bulb, as if it were his own peared, but amongst others his brother-in-law, Claes Jonas, was present from He, on his honor as a man, and on the salvation of his soul, instead of an oath

and he paid for the aforesaid excrescence honestly and clearly. All of this has stood that the aforesaid Coopall had to accept the excrescence. Such he has done truly happened. to make some difficulties and was unwilling to receive the aforesaid excrescence. as well as a certain Dauvit de Milt, who has looked at the aforesaid bulb, wanted by Jan Coopall, who was not present when the bulb was taken up, and that he But at the college of the florists o to whom the matter was referred, it was under-He, the witness, further declares that the first excrescence had been bought

if necessary to declare this on solemn oath. Done, etc. Offering to live or to die upon this, and to offer his soul to God Almighty, and

(6) Agreement between the florists of Alkmaar, Delft, Enkhuizen, UTRECHT, AND VIANEN, FEBRUARY 24TH, 1637 7 Gouda, Haarlem, Hoorn, Leiden, Medemblik, Rotterdam, de Streek,

tulips. To prevent the damage, yes, the extreme ruin which some, more especially ings which have arisen recently between them owing to the high auctions of the Medemblick, and de Streeck, who have arrived yesterday here in Amsterdam, to Today, the 24th of February of the year, 1637, the undersigned delegates of the florists of Haerlem, Delft, Gouda, Utrecht, Alcmaer, Leyden, and Rotterdam, who have instruction to follow the majority, Vianen, Horen, Enckhuysen, the new amateurs, are to expect, they have concluded as follows, after several meet and to deliberate on the actions of Flora and to abolish the misunderstandflorists of Amsterdam did not care to accept: propositions, and also after mitigation of an unanimous resolution, which the

inclusive, stilo nuovo, are to be fulfilled; the sales which have taken place after decide in March whether he definitely wants to abandon the transaction. that date may be cancelled by the buyer on payment of 10 per cent and he may To wit, all deals which have been concluded before ultimo November, 1636,

knowledge of which we each have signed. 1. Haerlem So we have agreed at Amsterdam on the day and the year as above and in Pieter Gerretsen Willem Schoneus . van Clarenbeeck Delft W. J. Floting (?) Leyden Gerart Willem van Sassen 4. Gouda 5. Vianna Cornelis Rotteval (after affirmation)

· Cf. above, p. 444.

Barent Kardoes Cornelis de Bruyn

Bruyn Dircsz. Jaques Baelde

Isack Corneelisen Frans Gomez da Costa

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7. Utrecht

6. Alcmaer

Gerrijt Adriaensz. Corn. de Haes

Bastyaen Hendricks. van Gheersberghen François Sweert

Those from Enchuysen and Medemblick sign under condition of communication with their principals to decide ultimately whether to accept or to Anthony Verbeek

8.

Hendrick Pietersz. Beelthouwer Dirck Jansz. Uyl

Gerrijt Barentz. Spylleman

9. Those from Hoorn sign with the provision that they consult with their principals to decide whether to accept or to refuse.

Mr. Jacob Churgijn Adryaen Jans. Spranger

10. De Streeck

Clacs Heertgensz Thijs Waernaersz.

(7) RESOLUTION OF THE BURGOMASTER AND GOVERNORS OF HAARLEM, March 7тн, 1637 8

time in this country should be cancelled in series; at the request of a few citizens act hereof is made out, at the chambers of the Burgomaster, on March 7th, incline and to be of opinion, that all deals in flowers made since the last planting the benefit of the citizens and the inhabitants of the province of Holland, to 1637. Under this was written, I being present, and was signed The Burgomaster and Governors of the City of Haerlem hereby declare for E. VAN BOSVELT.

(8) RESOLUTION OF THE STATES OF HOLLAND AND OF WEST-FRIESLAND, APRIL 27TH, 1637 9

magistrates of the cities, who are advised to bring together and to unite contractmation concerning the origin and the time of the successive great increases in the sales of tulips, as well as concerning the great decline in prices, as well as concerning the number of contractants in the several cities. It is the opinion of Frieslandt have decided, before answering the aforesaid request, that Their Honorable Great Powers and the aforesaid Court shall first receive further inforsen, and after having asked the advice of the President and the Councillors of ing, cultivating, and trading of flowers, residing in most of the cities of this prov-ince, such as Haerlem, Leyden, Amsterdam, Alckmaer, and Hoorn en Enchuyants, if possible; if not, they are required to forward the information received to the aforesaid Court. Their Hon. Gr. Po. that this can be done most conveniently by the respective the Provincial Court of the aforesaid country, the States of Holland and West-At the request of many of those who were principally concerned with the grow-

case of a decision that the aforesaid contracts were to have their full effect. Till buyers, after summons, and to recover the difference from the said buyers, in tulips which had been sold but have not been accepted, at the risk of the first then, all deals in tulips are in suspense and not prejudiced. During which, the planters of the aforesaid tulips are authorized to sell the

Done at The Hague on April 27th, 1637.

<sup>7</sup> R. O. Amsterdam, Solicitor's Acts no. 1269.

<sup>8</sup> R. O. Haarlem, Register of Resolutions, 1634-1639, fol. 154-9 Groot Plakkaat-Bock, ii, col. 2363.

(9) Declaration of Solicitor E. van Bosvelt at Haarlem, June 20th, 16371 At the request of Joost Plavier, for Cornelis Adriaensz. van Duyn, living at

solicitors, and ushers were forbidden by the authorities: the notaries were not to the utmost, out of hundred. They, the witnesses, understand, that such has hap-pened in the same way at Amsterdam, der Goude, Hoorn, Enchuysen, and witnesses mentioned below, Davidt Clement, 53 years old, Willem Gale, 37 years old, Daniel Olthoff, also 37 years, and Pieter Joosten de Sanger, 48 years of June, 1637, appeared before me Egbert van Bosvelt, secretary of the Orphan's Middelburch, having married Flora Abrahams van Neste. Today, on the 20th behalf of the Burgomaster. to be true as this defence has been brought to myself by the common usher, on and not to occupy themselves with these matters. And, I, notary, declare this summon, the solicitors not to make plaints, and the ushers not to bring them to a compromise. And not only no justice was administered, but all notaries, Alcmaer. Yes, there are also a great number of persons unwilling to pay or come est people compromised by paying one, two, three, four, yes, even five, which was but delivery and payment not being made by many and several, but a few honthemselves traded extensively, selling and buying, importing for many thousands, present at many and various sales of flowers during the past winter. They have old, all florists and citizens of this town, and at the request and instance as above, they have certified to the truth of the fact that they, the witnesses, have been Court of the City of Haerlem and public solicitor . . . , in the presence of the

(1) Declaration of Solicitor J. Schoudt at Haarlem, October 23D, 16371

willing to sell his part. flowers, then planted in the garden of aforesaid Pieter Joncheer, and that he was Sardam, possessed in partnership with one Pieter Joncheer, a certain number of a matter of importance, came to him, the witness, the aforesaid Pieter Louisz, Coelembier, thread-twiner, about 45 years old, known to me, the solicitor, who has . . . at the request as above . . . certified to the truth of the fact, that now about ten or eleven months ago, without knowing the exact day, or to make this city, appeared before me, Jacob Schoudt, public solicitor . . . , residing within the producent in this matter, telling him that one Jan Jansz. Lely, peasant at the City of Haerlem, in the presence of the witness below-mentioned, Cornelis At the instance and the request of Pieter Louis, grocer and inhabitant of this

said Jan Jansz., that he, Pieter Louisz., and he, the witness, were each to have the especial condition, that if he succeeded in concluding this deal with the afore-Further, that the aforesaid producent, himself not having any knowledge of flowers, encouraged and advised him, the witness, to buy this aforesaid share on half of it, as was accepted and agreed between them.

words of

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equally, each contributing and paying 137 guilders and ten pence. aforesaid Jan Jansz. Lely, at the house of him, the witness, and in the presence of month. On the 13th of January the aforesaid money was counted out to the grafte. The three of them sitting in the forecastle of the same boat and after some the aforesaid Jan Jansz., who was at the time in his boat lying in the Backenesser. the aforesaid Pieter Louis; he, the witness, and the aforesaid producent sharing discussion, finally agreed on the sum of 275 carolus guilders to be paid within a Accordingly the producent and himself, the witness, betook themselves to

Finally he, the witness, declares that the aforesaid persons have never been able

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officers of the Orphan's Court of the child of Pieter Joncheer especially forbade, even entirely rotten and perished. mid-September, with the result that the same may be greatly spoiled or damaged, producent, to have a hand in the matter and to take the bulbs out of the ground, and the guardians of the same child did not allow, either him, the witness, or the to get the aforesaid flowers, in spite of many requests for delivery. The Lords with the consequence that the said flowers have remained in the ground till about

To which he, the witness, offers to certify, etc.

### (11) Declaration of Solicitor J. Warnaerts at Amsterdam, November 9тн, 1637 в

of default or refusal of the same, he protests emphatically that he, if he so desires, shall sell the said bulbs at your costs, charges, damage, and risk in conformity with, and by grant of, a resolution of the Lords States of Hollandt and Westthem during this week at the latest, and to pay the sale price at delivery. In case the honorable Mathijs S(c)houten, merchant here, and have summoned as follows: Today, the 9th of November, 1637, at the written request of the honorable Wilem Schoneus, citizen of Haerlem, I have betaken myself unto the person of herewith offers to make delivery of the aforesaid bulbs, begging you to accept the plaintiff has sold to you, the defendant, one pound of Golincx, as proved by the contract, for 775 guilders, therefore the plaintiff, through me, the solicitor,

### (12) RESOLUTION OF THE BURGOMASTER AND GOVERNORS OF HAARLEM, JANUARY 30TH, 1638 4

eral residents of this town, have nominated to be commissioners on the questions guilders, to be paid to the benefit of the poor, unless the commissioners find reafirst time, 30 pennies, the second time, 3 guilders, and for the third time, 12 sormerly alderman, Hendrick Vestens, Nicolaes Lubbertsz. van der Weyden, dation if possible, hereby commit and nominate, E. Nicolaes Jansz. Verwer, and disputes arisen out of the flower trade and to terminate these by accommothe Court of the City of Haerlem, at the request and persistent demand of sevhave come forth from the flower trade, in the following manner: the Lords of sons for dispensation or moderation. flower trade have to appear before these commissioners under penalty for the Josias Harrewijn, and Abraham Loreyn. All persons summoned relative to the Has been formulated the instruction for the commissioners on questions which

the Princenhoff, at this place on Wednesday and Saturday, in the morning from nine till eleven and in the afternoon from two till four. The aforesaid commissioners, at least three in number, shall sit in the hall of

ushers are authorized. must be made out twenty-four hours previously. For the summons the sworn customary fee for summons, which the plaintiff must also pay. The summons each presentation, to be furnished by the plaintiff. The ushers shall enjoy the absence, by a clerk, who shall make notes and who shall enjoy three pence for The aforesaid commissioners shall be assisted by a secretary, or in case of his

<sup>1</sup> R. O. Haarlem, Solicitor's Acts no. 57, fol. 89.
2 R. O. Haarlem, Solicitor's Acts no. 149, fol. 87 v.

R. O. Amsterdam, Solicitor's Acts no. 676, fol. 146.

R. O. Haarlem, Register of Resolutions 1634-1639, fol. 203 v.

(13) RESOLUTION OF THE BURGOMASTER AND GOVERNORS OF HAARLEM,
MAY 22ND, 1638 5

The commissioners in the matters of flower trade announce that they have resolved, in the contracts of the aforesaid trade, which are of their concern, and where the decision remains with them, to agree on 3½ per cent consolation money. Has been decided that this shall be communicated to the Lords of Justice.

(14) Resolution of the Burgomaster and Governors of Haarlem, . May 28th, 1638  $^{6}$ 

Has been approved of the proposal of the commissioners of the flowers to decide the questions in this matter on 3½ per cent.

# ECONOMIC and BUSINESS HISTORY

Volume I

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### HISTORY OF THE DENNISON MANUFAC-TURING COMPANY

### E. P. HAYES

In its relatively short existence of about eighty-five years the Dennison Company has experienced many changes in policy and in fortune. Located at first in Brunswick (Maine), the plant moved to Roxbury, and later to Framingham. Starting with the manufacture of jewelers' boxes, the firm extended its operations to tags, crêpe paper, and many other stationers' supplies. While at first it had sold to wholesalers, it gradually found most profit and security in selling also to retailers and the consuming trade (pp. 480–482, 486). With a scarcity of skilled labor as its probable chief difficulty at first, it later had to face low prices, particularly in the keenly competitive market of the West (pp. 487, 497, 499). The firm started in the usual fashion as the enterprise of a single individual, then entered the partnership stage when more capital was required (pp. 471–472), finally becoming a joint-stock company (p. 478). The shares of the Company were gradually and purposely distributed among employees, particularly among those engaged in marketing (p. 489).

The pendulum of business policy swung first to the right and then to the left. In production the swing was toward several plants and then finally to one—at Framingham. In marketing, the early tendency was toward decentralization—in several cities (pp. 479–480), while later it was at least guided by a central committee. While trade was good and prices high, emphasis was put upon production; when business was poor, marketing received most attention. We leave the story with the victory of production in 1906 and the concentration of both production and marketing in the one central plant (pp. 501–502).

IN 1920 the Dennison Manufacturing Company undertook, for the information of its own executives, the study of its history from 1844, the date of founding, to the present.

<sup>&</sup>lt;sup>6</sup> R. O. Haarlem, Register of Resolutions 1634–1639, fol. 221 v. <sup>6</sup> *Ibid.*, fol. 222.