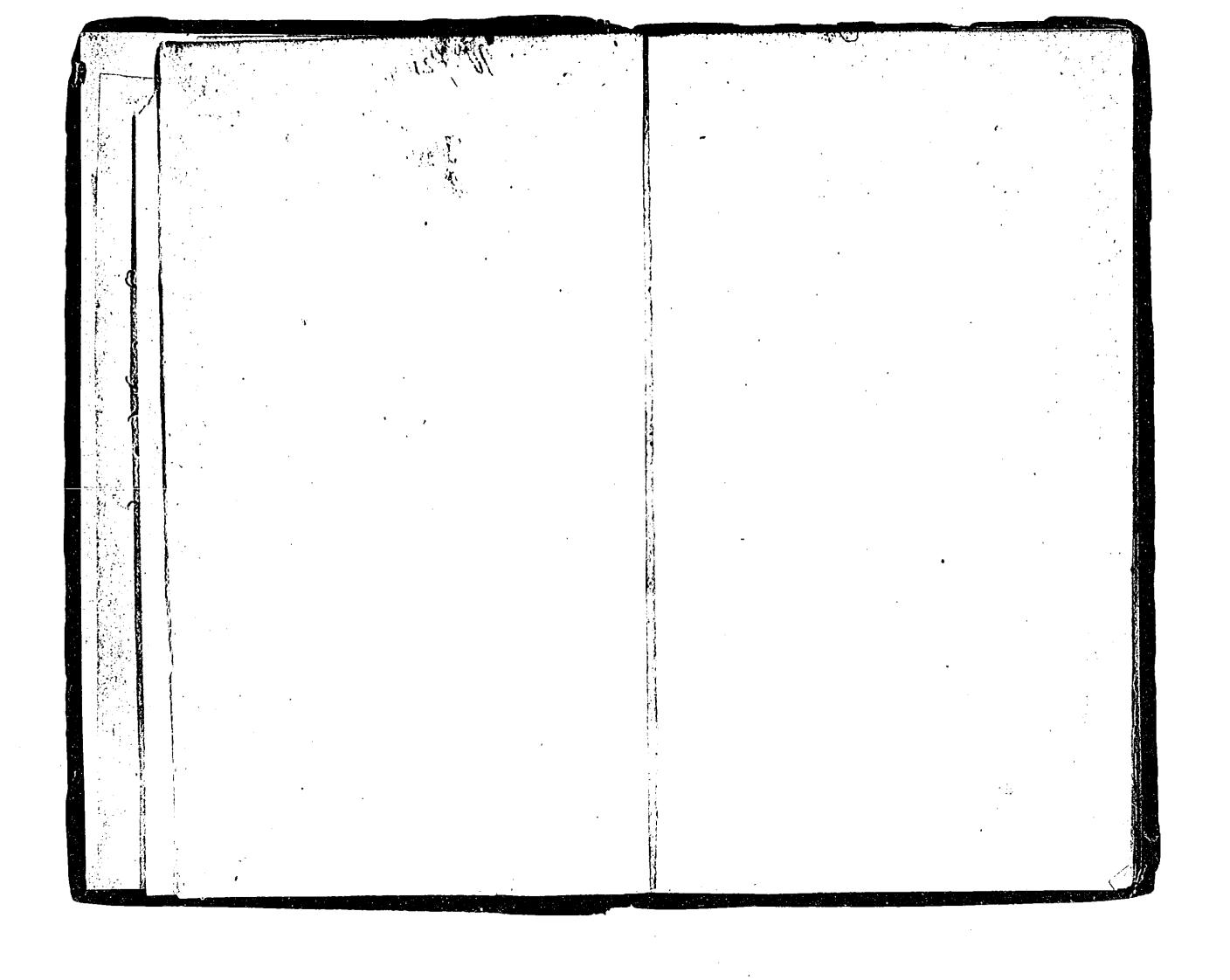


Sr Mr. Pzty



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LET this Book called Political Arithmetick, which was long since Writ by Sir William Tetty deceased, be Printed.

Given at the Court at Whitehall the 7th day of Novemb. 1690.

Nottingham.

## Political Arithmetick,

OR

## A DISCOURSE

#### Concerning,

The Extent and Value of Lands, People, Buildings; Husbandry, Manufacture, Commerce, Fishery, Artizans, Seamen, Soldiers; Publick Revenues, Interest, Taxes, Superlucration, Registries, Banks; Valuation of Men, Increasing of Seamen, of Militia's, Harbours, Situation, Shipping, Power at Sea, Sc. As the same relates to every Country in general, but more particularly to the Territories of His Majesty of Great Britain, and his Neighbours of Holland, Zealand, and France.

By Sir WILLIAM PETTY,
Late Fellow of the Royal Society.

London, Printed for Robert Clavel at the Peacock, and Hen. Mortlock at the Phanix in St. Paul's Church-yard. 1691.

\*INNER "TEMPLE"



TOTHE

# KINGS

Most Excellent

## MAJESTY.

SIR,

Hilest every one meditates some fit Offering for Your Majesty, such as may best agree with your happy Exal-

## A Dedication.

Exaltation to this Throne; I presume to offer, what my Father long since writ, to shew the weight and importance of the English Crown.

It was by him stiled Political Arithmetick, in as much as things of Government, and of no less concern and extent, than the Glory of the Prince, and the happiness and greatness of the People, are by the Ordinary Rules of Arithmetick, brought into a sort of Demonstration. He was allowed by all, to be the Inventor of this Method of Instruction; where

## A Dedication.

of the World, are explain'd by a very mean peice of Science; and had not the Doctrins of this Essay offended France, they had long since seen the light, and had sound Followers, as well as improvements before this time, to the advantage perhaps of Mankind.

But this has been reserved to the felicity of Your Majesty's Reign, and to the expectation which the Learned have therein; and if while in this, I do some honor to the Memory of a good Father, I

can

## A Dedication.

can also pay Service, and some Testimony of my Zeal and Reverence to so great a King, it will be the utmost Ambition of

Your Majcsty's Most Dutiful

and Most Obedient Subject,

Shelborne.



## PREFACE.

Orasmuch as Men, who are in a decaying condition, or who have but an ill opinion of their own Concernments, instead of being (as some think) the more industrious to resist the Evils they apprehend, do contrariwile become the more languid and ineffectual in all their Endeavours, neither caring to attempt or profecute even the probable means of their relief. Upon this Consideration, as a Member of the Common-Wealth, next to knowing the precise Truth in what condition the common Interest stands, I would in all doubtful Cases think the

## Preface.

the best, and consequently not despair, without strong and manifest Reasons, carefully examining whatever tends to lessen my hopes of the publick Welfare.

I have therefore thought fit to examin the following Perswasions, which I find too current in the World, and too much to have affected the Minds of some, to the prejudice of all. viz.

The fears

That the Rents of Lands are concern- generally fall'n; that therefore, and ing the tor many other Reasons, the whole England. Kingdom grows every day poorer and poorer; that formerly it abounded with Gold, but now there is a great scarcity both of Gold and Silver; that there is no Trade nor Employment for the People, and yet that the Land is under-peopled; that Taxes have been many and

great

Preface.

great; that Ireland and the Planta: tions in America and other Additions to the Crown, are a Burthen to England; that Scotland is of no Advantage; that Trade in general doth lamentably decay; that the Hollanders are at our heels, in the race of Naval Power; the French grow too fast upon both, and appear so rich and potent, that it is but their Clemency that they do not devour their Neighbors; and finally, that the Church and State of England, are in the same danger with the Trade of England; with many other dismal Suggestions, which I had rather stifle than repeat.

Tistrue, the Expence of foreign The real Commodities hath of late been too dices of great; much of our Plate, had it England. remain'd Money, would have bet-

## Preface.

ter, served Trade; too many Matters have been regulated by Laws, which Nature, long Custom, and general Consent, ought only to have governed; the Slaughter and Destruction of Men by the late Civil Wars and Plague have been great; the Fire at London, and Disaster at Chatham, have begotten Opinions in the Vulgus of the World to our Prejudice; the Nonconformists increase; the People of Ireland think long of their Settlement; the English there apprehend themselves to be Aliens, and are forced to seek a Trade with Foreigners, which they might as well maintain with their own Relations in England. But notwithstanding all this (the like whereof The Im- was always in all Places), the prove- Buildings of London grow great England, and glorious; the American PlantaPreface.

tions employ four Hundred Sail of Ships; Actions in the East-India Company are near double the principal Money; those who can give good Security, may have Money under the Statute-Interest; Materials for building (even Oaken-Timber) are little the dearer, some cheaper for the rebuilding of London; the Exchange seems as full of Merchants as formerly; no more Beggars in the Streets, nor executed for Thieves, than heretofore; the Number of Coaches, and Splendor of Equipage exceeding former Times; the publique Theatres very magnificent; the King has a greater Navy, and stronger Guards than before our Calamities; Clergy rich, and the Cathedrals in repair; much Land has been improved, and the Price of Food so reasonable, as that Men refuse

tions

## Preface

to have it cheaper, by admitting of Irish Cattle; And in brief, no Man needs to want that will take moderate pains. That some are poorer than others, ever was and ever will be: And that many are naturally querulous and envious, is an Evil as old as the World.

These general Observations, and that Men eat, and drink, and laugh as they use to do, have encouraged me to try if I could also comfort others, being satisfied my self, that the Interest and Affairs of England are in no deplorable Condition.

The Method I take to do this, thor's Me-is not yet very usual; for instead Manner of using only comparative and superlative Words, and intellectual Arguments, I have taken the course (as a Specimen of the Political Arithmetick

## Preface.

rithmetick I have long aimed at) to express my self in Terms of Number, Weight, or Measure; to use only Arguments of Sense, and to consider only such Causes, as have visible Foundations in Nature; leaving those that depend upon the mutable Minds, Opinions, Appetites, and Passions of particular Men, to the Consideration of others: Really professing my self as unable to speak satisfactorily upon those Grounds (if they may be call'd Grounds), as to foretel the cast of a Dye; to play well at Tennis, Billiards, or Bowles, (without long practice,) by virtue of the most elaborate. Conceptions that ever have been written De Projectilibus & Missilibus, or of the Angles of Incidence and Reflection.

Now

## Preface.

Now the Observations for Robis Posi-, sitions expressed by Number, Weight, supposi- and Measure, upon which I boteither true, or not apparently false, and which if they are not already true, certain, and evident, yet may be made so by the Sovereign Power, Nam id certum est quod certum reddi potest, and if they are false, not so false as to destroy the Argument they are brought for; but at worst are sufficient as Suppositions to shew the way to that Knowledge I aim at. And I have withal for the present confined my self to the Ten principal Conclusions hereaster particularly handled, which if they shall be judged material, and worthy of a better Discussion, I hope all ingenious and candid Persons will rectifie the Errors, Desects, and Im-

## Preface.

Imperfections, which probably may be found in any of the Positions, upon which these Ratiocinations were grounded. Nor would it misbecome Authority it self, to clear the Truth of those Matters which private Endeavours cannot reach to.

THE

## Principal Conclusions

OF THIS

## TREATISE

A R E,

CHAP. I. That a small Country, and few People, may by their Situation, Trade, and Policy, be equivalent in Wealth and Strength, to a far greater People, and Territory. And particularly, How conveniencies for Shipping, and Water Carriage, do most Eminently, and Fundamentally, conduce thereunto. Pag. I

Chap. II. That some kind of Taxes, and Publick Levies, may rather increase than diminish the Common-Wealth.

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#### The Contents.

Chap. III. That France cannot, by reafon of Natural and Perpetual Impedi---- ments, be more powerful at Sea, than the English, or Hollanders. Chap. IV. That the People, and Territories of the King of England, are Naturally near as considerable, for Wealth, and Strongth, as those of France. · pag. 64 Chap. V. That the Impediments of Englands Greatness, are but contingent and removeable. Chap. VI. That the Power and Wealth of England, hath increased above this forty years. pag. 96 Chap. VII. That one tenth part, of the whole Expence, of the King of England's Subjects; is sufficient to maintain one hundred thousand Foot, thirty thousand Horse, and forty thousand Men at Sea, and to defray all other Charges, of the Government: both Ordinary and Extraordinary, if the same were regularly Taxed, and Raised. pag. 101 Chap. VIII. That there are spare Hands enough among the King of England's Subjects, to earn two Millions per annum, more than they now do, and there are Employments, ready,

proper,

### The Contents.

proper, and sussicient for that purpose.

pag. 104
Chap. IX. That there is Mony sussicient to drive the Trade of the Nation.

Chap. X. That the King of England's Subjects, have Stock, competent, and convenient to drive the Trade of the whole Commercial World.

pag. 112

ERRATA.

## ERRATA

PAge 7. line 25. read the Rent. p. 8. 1. 21. r. a part. p. 20. 1. 3. r. for cheap. p. 21. 1. 14. r. cold, moist. p. 26. 1. 7. r. that Church. p. 32. 1. 7. r. yearly prosit. 1. 18. r. to be the value. p. 47. 1. 4. r. sifty thousand. 1. 28. r. sixteen thousand. p. 49. 1. 13: r. the said half together. p. 52. 1. 6. r. should bring. p. 59. 1. 24. r. they coast. p. 72. 1. 8. r. or above. p. 91. 1. 9. r. Exotics. p. 95. 1. 13. r. paying for.

#### CHAP. I.

That a small Country and few People, by its Situation, Trade, and Policy, may be equivalent in Wealth and Strength, to a far greater People and Territory: And particularly that conveniencies for Shipping and Water-Carriage, do most Eminently and Fundamentally conduce thereunto.

THis first principal Conclusion by reason of its length, I consider in three Parts; whereof the first is, That a small Country and few People, may be equivalent in Wealth and Strength to a far greater People and Territory.

This part of the first principal Con- How one Man by art clusion needs little proof; forasmuch as and one one Acre of Land, may bear as much Acre of Corn and feed as many Cattle as twen- improvety, by the difference of the Soil; some ment may parcel of Ground is naturally so defensi be equivable, as that an Hundred Men being pof many.

**feffed** 

sessed thereof, can resist the Invasion of Five Hundred; and bad Land may be improved and made good; Bog may by draining be made Meadow; Heathland may (as in Flanders) be made to bear Flax and Clover grass, so as to advance in value from one to an Hundred; The same Land being built upon, may centuple the Rent which it yielded as Pasture; one Man is more nimble or strong, and more patient of labor than another; one Man by Art may do as much work, as many without it; viz. one Man with a Mill can grind as much Corn, as twenty can pound in a Mortar; one Printer can make as many Copics, as an Hundred Men can write by hand; one Horse can carry upon Wheels, as much as Five upon their Backs; and in a Boat, or upon Ice, as Twenty: So that I say again, this first point of this general Position, needs little or no proof. But the second and more material part of this Conclusion is, that this difference in Land and People, arises principally from their Situation, Trade, and Policy.

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To clear this, I shall compare Hol- A Compaland and Zealand, with the Kingdom rison of Holland of France, viz. Holland and Zealand do and Zeanot contain above one Million of En-land with France contains above 80.

Now the Original and Primitive dif- our france.

Some auxiliary france.

Now the Original and Primitive dif- our france.

ference holds proportion as Land to Land, for it is hard to say, that when these places were first planted, whether an Acre in France was better than the like quantity in Holland and Zealand; nor is there any reason to suppose, but that therefore upon the first Plantation, the number of Planters was in proportion to the quantity of Land; wherefore, if the People are not in the same proportion as the Land, the same must be attributed to the Scituation of the Land, and to the Trade and Policy of the People superstructed thereupon.

The next thing to be shewn is, that Hott & 27al not only an eightieth part as rich and 3 of fram Holland and Zealand at this day, isstrong as France, but that it hath advanced to one third or thereabouts, which I think will appear upon the Ballance of the following particulars,

vizi

B 2

As

As to the Wealth of France, a cer-Lands of tain Map of that Kingdom, set sorth France, Anno 1647. represents it to be sisteen Lands of Millions, whereof fix did belong to the Holland Church, the Author thereof (as I supand sea-land, as 8 pose) meaning the Rents of the Lands to i in only: And the Author of a most Judicious discourse of Husbandry (supposed to be Sir Richard Weston,) doth from reason and experience shew, that Lands in the Netherlands, by bearing Flax, Turneps, Clover-grass, Madder, &c. will easily yield 101. per Acre; so as the Territories of Holland and Zealand, should by his account yield at least Ten Millions per annum, yet I do not believe the same to be so

TheBuildings of Amsterin value to those

as about 7, or 8 to 1. The People of Amsterdam, are one third of those in Paris or London, which dam are two Cities disser not in People a twenabout half tieth part from each other, as hath appeared by the Bills of Burials and et Paris. Christnings for each. But the value of the Buildings in Amsterdam, may well be half that of Paris, by reason of the Foundations, Grafts, and Bridges, which

much, nor France so little as abovesaid,

but rather, that one bears to the other

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in Amsterdam are more numerous and chargeable than at Paris. Morcover The Houthe Habitations of the poorest People fing in France ain Holland and Zealand, are twice or bove five thrice as good as those of France; but times the the People of the one to the People of those in the other, being but as thirteen to one, Holland the value of the housing must be as and Zeaabout five to one.

The value of the Shipping of Europe, The Shipbeing about two Millions of Tuns, I ping of suppose the English have Five Hundred times that Thousand, the Dutch Nine Hundred of France. Thousand, the French an Hundred Thousand, the Hamburgers, and the Subjects of Denmark, Sweden, and the Town of Dansick two Hundred and Fifty Thousand, and Spain, Portugal, Italy, &c. two Hundred and Fifty Thousand; so as the Shipping in our case of France to that of Holland and Zealand, is about one to nine, which reckoned as great and small, new and old, one with another at 8 l. per Tun, makes the worth to be as Eight Hundred Thousand Pounds, to Seven Millions, and two Hundred Thousand Pounds. The Com-The Hollanders Capital in the East Holl. and India Company, is worth above Three France in Millions, the India's

Millions, where the French as yet have little or nothing.

The value of the Goods exported portations out of France into all Parts, are supof France posed Quadruple to what is sent to Enand is as gland alone; and consequently in all 21 to 5. about Five Millions, but what is exported out of Holland into England is worth Three Millions; and what is exported thence into all the World befides, is sextuple to the same.

The Monies Yearly raised by the venues of King of France, as the same appears by the Book intituled (The State of France) Dedicated to the King, Printed Anno 1669. and set forth several times by Authority, is 82000000 of French Livers, which is about  $6\frac{1}{2}$  Millions of Pounds Sterling, of which summ the Author says, that one fifth part was abated for non-valuers or Insolvencies, so (as I suppose) not above Five Millions were effectually raised: But whereas some say, that the King of France raised Eleven Millions as the ; of the effects of France; I humbly affirm, that all the Land and Sea Forces, all the Buildings and Entertainments, which we have heard by common Fame, to have been [7]

set forth and made in any of these seven last Years, needed not to have cost Six Millions Sterling; wherefore, I suppose he hath not raised more, especially since there were one fifth Infolvencies, when the Tax was at that pitch. But Holland and Zealand, paying 67 of the 100, The Taxes paid by all the United Provinces, and paid by the City of Amsterdam paying 27 of Holl. and the said 67; It follows that if Amster-Zealand. dam hath paid 4000 l. Flemish per diem, or about 1400000 l. per annum, or 800000 1. Sterling; that all Holland and Zealand, have paid 2100000 l. per annum: Now the reasons why I think they pay so much, are these, viz.

I. The Author of the State of the

Netherlands saith so.

2. Excise of Victual at Amsterdam, feems above half the Original value of the same, viz.

Ground Corn pays 20 Stivers the Bushel, or 63 Gilders the Last; Beer 113 Stivers the Barrel, Housing & of Rent, Fruit 1/8 of what it cost; other Commodities 1, 1, 1, 1, 1, Salt ad libitum, all weighed Goods pay besides the Premisses a vast summ; now if the expence of the People of Amsterdam at a medium, B 4

um, and without Excise were 8 l. per annum, whereas in England 'tis 7 l. then if all the feveral Imposts above named, raise it Five Pound more, there being 160000 Souls in Amsterdam, the summ of 800000 l. Sterling per annum will thereby be raised.

3. Though the expence of each head, should be 13 l. per amum; 'tis well known that there be sew in Amsterdam, who do not earn much more than the

faid expence.

4. If Holland and Zealand pay p. an. 2100000 l. then all the Provinces together, must pay about 3000000 l. less than which summ per annum, perhaps is not sufficient to have maintained the Naval War with England, 72000 Land Forces, besides all other the ordinary Charges of their Government, whereof the Church is there apart: To conclude, it seems from the Premisses, that all France doth not raise above thrice as much from the publick charge, as Holland and Zealand alone do.

The Diffe- 5. Interest of Money in France, is rence of 7 l. per cent. but in Holland scarce half tweenHol. so much.

& France.

6. The

## [9]

6. The Countries of Ilolland and Zealand; confisting as it were of Islands guarded with the Sca, Shipping, and Marshes, is desensible at one sourth of the charge, that a plain open Country is, and where the feat of War may be both Winter and Summer; whereas in the others, little can be done but in the

Summer only.

7. But above all the particulars hi- The futherto considered, that of superlucration betion ought chiefly to be taken in; for tween if a Prince have never so many Subjects, France and his Country be never so good, yet and Holl. if either through floth, or extravagant expences, or Oppression and Injustice, whatever is gained shall be spent as fast as gotten, that State must be accounted poor; wherefore let it be considered, how much or how many times rather, Holland and Zealand, are now above what they were 100 years ago, which we must also do of France: Now if France hath scarce doubled its Wealth and Power, and that the other have decupled theirs; I shall give the preference to the latter, even although the increased by the one, should not exceed the one half gained by the other, because

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because one has a store for Nine Years, the other but for one.

To conclude, upon the whole it seems, that though France be in People to Holland and Zealand as 13 to 1, and in quantity of good Land, as 80 to one, yet is not 13 times richer and stronger, much less 80 times, nor much above thrice, which was to be proved.

ference between France

Having thus dispatched the two sirst The causes Branches of the first Principal concluof the dif- sion; it follows, to shew that this difference of Improvement in Wealth and Strength, arises from the Situation, and Holl. Trade, and Policy of the places respe-Ctively, and in particular from Conveniencies for Shipping and Water Carriage.

Many Writing on this Subject do so magnifie the Hollanders as if they were more, and all other Nations less than Men (as to the matters of Trade and Policy) making them Angels, and others Fools, Brutes, and Sots, as to those particulars; whereas I take the Foundation of their atchievements to lie originally in the Situation of the Country, whereby they do things inimitable by others, and have advantages whereof First, others are incapable.

## 

First, The Soil of Holland and Zealand The reais low Land, Rich and Fertile; where-fons why by it is able to feed many Men, and is better fo as that Men may live near each o- than ther, for their mutual assistance in Trade. Course Land tho I say, that a Thousand Acres, that can of the same feed 1000 Souls, is better than 10000 Rent, and Acres of no more effect, for the follow- quently ing reasons, viz.

1. Suppose some great Fabrick were is better in Building by a Thousand Men, shall not much more time be spared if they lived all upon a Thousand Acres, then if they were forced to live upon ten

times as large a Scope of Land.

2. The charge of the cure of their Souls, and the Ministry would be far greater in one case than in the other; as also of mutual defence in case of Invasion, and even of Thieves and Robbers: Moreover the charge of the administration of Justice would be much easier, where Witnesses and Parties may be easily Summoned, Attendance less expensive, when Mens Actions would be better known, when wrongs and injuries could not be covered, as in thin peopled places they are.

Laftly,

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Lastly, those who live in Solitary places, must be their own Soldiers, Divines, Physicians, and Lawyers, and must have their Houses stored with necessary Provisions (like a Ship going upon a long Voyage,) to the great wast, and needless expence of such Provisions; the value of this first convenience to the Dutch, I reckon or estimate to be about 100000 l. per annum.

2ly, Holland is a Level Country, so vantages as in any part thereof, a Windmill may from the be set up, and by its being moist and level and be set up, and by its being moist and windmills vaporous, there is always wind stirring of Holl. over it, by which advantage the labor of many thousand Hands is saved, forasmuch as a Mill made by one Man in half a Year, will do as much Labor, as Four Men for Five Years together. This advantage is greater or less, where employment or ease of Labour is so; but in Holland' ris eminently great, and the worth of this conveniency is near an

The advan-Hundred and Fifty Thousand Pounds. 3ly. There is much more to be gaincommerce. ed by Manufacture than Husbandry, The Situation of Holl, and by Merchandize than Manufacture; &Zeal.upon but Holland and Zealand, being seated of three at the mouths of three long great Ri $\begin{bmatrix} 13 \end{bmatrix}$ 

vers, and passing through Rich Countries, do keep all the Inhabitants upon the fides of those Rivers but as Hufbandmen, whilst themselves are the Manufactors of their Commodities, and do dispence them into all Parts of the World, making returns for the same, at what prices almost they please themsclves; and in short, they keep the Keys of Trade of those Countries, through which the faid Rivers pass; the value of this third conveniency, I suppose to be 200000 l.

4ly. In Holland and Zealand, there Nearness is fcarce any place of work, or business to navigaone Mile distant from a Navigable Wa- ters. ter, and the charge of Water carriage is generally but 1, or 20 part of Land carriage; Wherefore if there be as much Trade there as in France, then the Hollanders can out-fell the French 15 of all the expence, of all Travelling Postage and carriage whatsoever, which even in England I take to be 300000 l. p. an. where the very Postage of Letters, costs the People perhaps 50000 l. per annum, though Farmed at much less, and all other Labour of Horses, and Porters, at least fix times as much; The value of

this

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this conveniency I estimate to be above Three Hundred Thousand pounds

per annum.

The deness of Holland.

5. The desensibleness of the Counfentible: try, by reason of its Situation in the Sea upon Islands, and in the Marshes, Impassible ground Diked and Trenched, especially considering how that place is aimed at for its Wealth; I say the charge of defending that Country, is easier than if it were a plain Champion, at least 200000 l. per annum.

Harbour-

6. Holland is so considerable for keeping of shipping of Men, and ground Tackle, that it at small of Men, and ground Tackle, that it expence. saves per annum 200000 l. of what must be spent in France. Now if all these natural advantages do amount to above one Million per annum Profits, and that the Trade of all Europe, nay of the whole World, with which our Europeans do Trade, is not above 45 Millions p. an. and if 5 of the value be 5 of the Profit, it is plain that the Hollander may Command and Govern the whole Trade.

Advanta-

7. Those who have their Situation ges from thus towards the Sea, and abound with Fish at home, and having also the command

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mand of Shipping, have by confequence the Fishing Trade, whereof that of Herring alone, brings more yearly Profit to the Hollanders than the Trade of the West Indies to Spain, or of the East to themselves, as many have affirmed, being as the same say viis & modis of above three Millions per annum Profit.

8. It is not to be doubted, but those Advanwho have the Trade of Shipping and tages by Naval Fishing, will secure themselves of the Provisi-Trade of Timber for Ships, Boats, Masts, ons. and Cask; of Hemp for Cordage, Sails, and Nets; of Salt, of Iron; as also of Pitch, Tar, Rosin, Brimstone, Oil, and Tallow, as necessary Appurtenances

to Shipping and Fishing.

9. Those who predominate in Ship-Fitnessfor ping, and Fishing, have more occasions Universal than others to frequent all parts of the World, and to observe what is wanting or redundant every where, and what each People can do, and what they defire, and consequently to be the Factors, and Carriers for the whole World of Trade. Upon which ground they bring all Native Commodities to be Manufactured at home, and carry the same back, even to that Country in which

which they grew, all which we fee. For, do they not work the Sugars of the West-Indies? The Timber and Iron of the Baltick? The Hemp of Russia? The Lead, Tin, and Wooll of England? The Quick-filver and Silk of Italy? The Yarns, and Dying Stuffs of Turkey, &c. To be short, in all the ancient States, and Empires, those who had the Shipping, had the Wealth, and if 2 per Cent. in the price of Commodities, be perhaps 20 per Cent, in the gain: it is manifest that they who can in forty five Millions, undersel others by one Million, (upon accompt of natural, and intrinfick advantages only) may eafily have the Trade of the World without fuch Angelical Wits and Judgments, as

fome attribute to the Hollanders. Having thus done with their Situation, I come now to their Trade.

Artificial advantages of

It is commonly seen, that each Country flourisheth in the Manufacture of its own Native Commodities, viz. Eng. land for woollen Manufacture. France for Paper, Luic land for Iron Ware, Portugal for Confectures, Italy for Silks; upon which Principle it follows, that Holland and Zealand must flourish most

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in the Trade of Shipping, and so become Carriers and Factors of the whole World of Trade. Now the advantages of the Shipping Trade are as followeth, viz.

Husbandmen, Seamen, Soldiers, Ar. Husbandtizans and Merchants, are the very Pil- men, Sealars of any Common-Wealth; all the diers, Arother great Professions, do rise out of tizans, and Merchants, the infirmities, and miscarriages of these; are the venow the Scaman is three of these four. ry Pillars For every Seaman of industry and in of a Comgenuity, is not only a Navigator, but a wealth, Merchant, and also a Soldier; not be- and a Seacause he hath often occasion to fight, man is three of and handle Arms; but because he is them. familiarized with hardship and hazards, extending to Life and Limbs; for Training and Drilling is a small part of Soldiery, in respect of this last mentioned Qualification; the one being quickly and presently learned, the other not without many years most painful experience: wherefore to have the occafion of abounding in Seamen, is a vast conveniency.

2. The Husbandman of England earns but about 4 s. per Week, but the Seamen have as good as 12 s. in Wages, Victu-

Victuals (and as it were housing) with other accommodations, so as a Scaman A Seaman is in effect three Husbandmen; wherefore to three there is little Ploughing, and Sowing of Husband- Corn in Holland and Zealand, or breeding of young Cattle: but their Land is improved by building Houses, Ships, Engines, Dikes, Wharfs, Gardens of pleasure, extraordinary Flowers and Fruits; for Dairy and feeding of Cattle, for Rape, Flax, Madder, &c. The Foundations of several advantageous Manufactures.

> 3. Whereas the Employment of other Men is confined to their own Country, that of Seamen is free to the whole World; so as where Trade may (as they call it) be dead here or there, now and then, it is certain that some where or other in the World, Trade is always quick enough, and Provisions are always plentiful, the benefit whereof, those who command the Shipping enjoy, and they only.

Wealth.

4. The great and ultimate effcst of Gold, and Trade is not Wealth at large, but par-Universal ticularly abundance of Silver, Gold, and Jewels, which are not perishable, nor so mutable as other Commodities,

but

 $\begin{bmatrix} 19 \end{bmatrix}$ 

but are Woalth at all times, and all places: Whereas abundance of Wine, Corn, Fowls, Flesh, &c. are Riches but bic & nunc, so as the raising of such Commodities, and the following of such Trade, which does store the Country with Gold, Silver, Jewels, &c. is profitable before others. But the Labour of Seamen, and Freight of Ships, is always of the nature of an Exported Commodity, the overplus whereof, above what is Im-

ported, brings home mony, &c.

5. Those who have the command of Reasons the Sea Trade, may Work at easier why the Hollan-Freight with more profit, than others at ders Sail greater: for as Cloth must be cheaper for less made, when one Cards, another Spins, Freight. another Weaves, another Draws, another Dresses, another Presses and Packs; than when all the Operations abovementioned, were clumfily performed by the same hand; so those who command the Trade of Shipping, can build long flight Ships for carrying Masts, Fir-Timber, Boards, Balks, &c. And short ones for Lead, Iron, Stones, &c. One fort of Vessels to Trade at Ports where they need never lie a ground, others where they must jump upon the Sand twice

twice every twelve hours; One fort of Vessels, and way of manning in time of Peace, and cheap gross Goods, another for War and precious Commodities; One fort of Vessels for the turbulent Sea, another for Inland Waters and Rivers; One fort of Vessels, and Rigging, where haste is requisite for the Maidenhead of a Marker, another where ; or ‡ part of the time makes no matter. One fort of Masting and Rigging for long Voyages, another for Coasting. One fort of Vessels for Fishing, another for Trade: One fort for War for this or that Country, another for Burthen only. Some for Oars, some for Poles, fome for Sails, and some for draught by Men or Horses, some for the Northern Navigations amongst Ice, and some for the South against Worms, &c. And this I take to be the chief of several Reasons, why the Hollanders can go at less Freight than their Neighbours, viz. because they can afford a particular fort of Vessels for each particular Trade.

I have shewn how Situation hath given them Shipping, and how Shipping hath given them in effect all other Trade,

### 21 7

Trade, and how Foreign Traffick must give them as much Manufacture as they can manage themselves, and as for the overplus, make the rest of the World but as Workmen to their Shops. It The Polinow remains to shew the effects of their cy of Ho!. Policy, superstructed upon these natural advantages, and not as some think upon the excess of their Understandings.

I have omitted to mention the Hollanders were one hundred years fince, a poor and oppressed People, living in a Country naturally cold and unpleafant: and were withal persecuted for

their Heterodoxy in Religion.

From hence it necessarily follows, that this People must Labour hard, and set all hands to Work: Rich and Poor, Young and Old, must study the Art of Number, Weight, and Measure; must fare hard, provide for Impotents, and for Orphans, out of hope to make profit by their Labours: must punish the Lazy by Labour, and not by cripling them: I fay, all these particulars, said to be the subtile excogitations of the Hollanders, seem to me, but what could not almost have been otherwise.

Liber- $\mathbf{C}$  3

## 22

Liberty of Conscience, Registry of Conveyances, small Customs, Banks, Lumbards, and Law Merchant, rise all from the same Spring, and tend to the same Sea; as for lowness of Interest, it is also a necessary effect of all the premisses, and not the Fruit of their contrivance.

Wherefore we shall only shew in particular the efficacy of each, and first of Liberty of Conscience; but before I enter upon these, I shall mention a Practice almost forgotten, (whether it referreth to Trade or Policy is not material,) which is, the Hollanders undermasting, and sailing such of their Shipping, as carry cheap and gross Goods, and whose Sale doth not depend much upon Season.

It is to be noted, that of two equal and like Vessels, if one spreads one thousand six hundred Yards of like Canvase, and the other two thousand five hundred, their speed is but as four to five, so as one brings home the same Timber in four days, as the other will in five. Now if we consider that although those Ships be but four or five days under Sail, that they are perhaps thirty

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thirty upon the Voyage; fo as the one is but 30 part longer upon the whole Voyage than the other, though one fisth longer under Sail. Now if Masts, Yards, Rigging, Cables, and Anchors, do all depend upon the quantity and extent of the Sails, and consequently hands also; it follows that the one Vessel, goes at one third less charge, losing but one thirtieth of the time, and of what depends thereupon.

I now come to the first Policy of the Dutch, viz. Liberty of Conscience; Liberty of which I conceive they grant upon these Conscigrounds. (But keeping up always a the Rea-Force to maintain the Common Peace,) sons there. I. They themselves broke with Spain, of in Hola

to avoid the imposition of the Clergy. 2. Dissenters of this kind, are for the most part, thinking, sober, and parient Men, and such as believe that Labour and Industry is their Duty towards God. (How erroneous soever their Opinions be.) 3. These People believing the Justice of God, and seeing the most Licentious persons, to enjoy most of the World, and its best things, will never venture to be of the same Religion, and Profession with Voluptu-

aries,

Undermasting of Ships. aries, and Men of extreme Wealth and Power, who they think have their Portion in this World.

Man can believe what himself pleases, and to sorce Men to say they believe what they do not, is vain, absurd, and without Honor to God.

5. The Hollanders knowing themselves not to be an Infallible Church, and that others had the same Scripture for Guides as themselves, and withat the same Interest to save their Souls, did not think sit to make this matter their business; not more than to take Bonds of the Seamen they employ, not to cast away their own Ships and Lives.

6. The Hollanders observe that in France and Spain, (especially the latter) the Churchmen are about one hundred for one, to what they use or need; the principal care of whom is to preserve Unisormity, and this they take to be a supersluous charge.

7. They observe where most indeavours have been used to keep Unisormity, there Heterodoxy hath most abounded.

8. They believe that if \(\frac{1}{4}\) of the People were Heterodox, and that if that

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that whole quarter should by Miracle be removed, that within a small time of the remainder would again become Heterodox some way or other, it being natural for Men to differ in Opinion in matters above Sense and Reason: and for those who have less Wealth, to think they have the more Wit and Understanding, especially of the things of God, which they think chiefly belong to the Poor.

9. They think the case of the Primitive Christians, as it is represented in the Alts of the Apostles, looks like that of the present Dissenters, (I mean externally.) Moreover it is to be observed that Trade doth not (as some think) best The Trade flourish under Popular Governments, but of any Country is rather that Trade is most vigorously chiefly carried on, in every State and Govern managed by the Hement, by the Heterodox part of the terodox same, and such as profess Opinions dif-party. ferent from what are publickly established: (that is to say) in India where the Mahometan Religion is Authorized, there the Banians are the most considerable Merchants. In the Turkish Empire the Jews, and Christians. At Venice, Naples, Legorn, Genoua, and Lisbone,

Jews

Jews, and Non-Papist Merchant-Strangers: but to be short, in that part of Europe, where the Roman Catholick Religion, now hath, or lately hath had Establishment; there three quarters of the whole Trade, is in the hands of such as have separated from the Church (that is to fay) the Inhabitants of England, Scotland, and Ireland, as also those of the United Provinces, with Denmark, Sueden, and Norway, together with the Subjects of the German Protestant Princes, and the Hans Towns, do at this day possess three quarters of the Trade of the World; and even in France it self, the Hugonots are proportionably far the greatest Traders; Nor is it to be denied but that in Ireland, where the said Roman Religion is not Authorized, there the Professors thereof have a great part of the Trade. From whence it follows that Trade is not fixt to any Species of Religion as such; but rather Seamen of as before hath been faid to the Hetrodox are scarce part of the whole, the truth whereof sufficient appears also in all the particular Towns of greatest Trade in England; nor do I of Eng- find reason to believe, that the Roman Catholick Seamen in the whole World,

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are sufficient to Man effectually a Fleet equal to what the King of England now hath; but the Non-papist Seamen, can do above thrice as much. Wherefore he whom this latter Party doth affectionately own to be their Head, cannot probably be wronged in his Sea-concernments by the other; from whence it follows, that for the advancement of Trade, (if that be a sufficient reason) Indulgence must be granted in matters of Opinion; though licentious actings as even in Holland, be restrained by force.

The second Policy or help to Trade Firm Tiused by the Hollanders, is securing the tles to Titles to Lands and Houses; for al-Lands and though Lands and Houses may be called Terra Firma & res immobilis, yet the Title unto them is no more certain, than it pleases the Lawyers and Authority to make them; wherefore the Hollanders do by Registries, and other ways of Assurance make the Title as immovable as the Lands, for there can be no incouragement to Industry, where there is no assurance of what shall be gotten by it; and where by fraud and corruption, one Man may take away with case and by a trick, and in a moment

what

to Man the King

All the

**Papists** 

lands Fleet.

what another has gotten by many Years extreme labour and pains.

Of the ininto England.

There hath been much discourse, atroducing bout introducing of Registries into En-Registries gland; the Lawyers for the most part object against it, alledging that Titles of Land in England are sufficiently secure already; wherefore omitting the confiderations of small and oblique reasons pro & contra, it were good that enquiry were made from the Officers of feveral Courts, to what summ or value Purchasers have been damnified for this last ten Years, by such fraudulent conveyances as Registries would have prevented; the tenth part whereof at a Medium, is the annual loss which the People sustain for want of them, and then computation is to be made of the annual charge of Registring such extraordinary Conveyances, as would fecure the Title of Lands; now by comparing these two summs, the Question so much agitated may be determined; though fome think that though few are actually damnified, yet that all are hindered by fear and deterred from Dealing.

The Banks Their third Policy is their Bank, the use of Holland whereof is to encrease Mony, or rather to

make

make a small summ equivalent in Trade to a greater, for the effecting whereof these things are to be considered. I. How much Money will drive the Trade of the Nation. 2. How much current Moncy there is actually in the Nation. 3. How much Money will serve to make all payments of under 50 l. or any other more convenient fumm throughout the Year. 4. For what fumm the keepers of the Bank are unquestionable Security: If all these four particulars be well known, then it may also be known, how much of the ready Money above mentioned may fafely and profitably be lodged in the Bank, and to how much ready current Money the said deposited Money is equivalent. As for example, suppose a Hund.thous. Pounds will drive the Trade of the Nation, & suppose there be but Sixty thousand Pounds of ready Money in the same; suppose also that Twenty thous. Pounds will drive on and answer all Payments made of under 50 l. In this case Forty of the Sixty being put into the Bank, will be equivalent to Eighty, which eighty and twenty kept out of the Bank do make up an Hundred, (that is to fay) enough to drive the

the Trade as was proposed; where note that the Bank keepers must be responfible for double the fumm intrusted with them, and must have power to levy upon the general, what they happen to loose unto particular Men.

Upon which grounds, the Bank may freely make use of the received Forty thousand Pounds, whereby the said fumm, with the like fumm in Credit makes Eighty thousand Pounds, and with the Twenty reserved an Hundred.

The Hol- I might here add many more particu-

landersare lars, but being the same as have alrea-Husband- dy been noted by others, I shall conmen or clude only with adding one observation Foot Sol- which I take to be of consequence, viz. That the Hollanders do rid their hands of two Trades, which are of greatest turmoil and danger, and yet of least profit; the first whereof is that of a common and private Soldier, for fuch they can hire from England, Scotland, and Germany, to venture their lives for Six pence a day, whilst themselves safely and quietly follow fuch Trades, whereby the meanest of them gain six times as much, and withal by this entertaining of Strangers for Soldiers; their Coun[31]

try becomes more and more peopled. forasmuch as the Children of such Strangers, are Hollanders and take to Trades. whilst new Strangers are admitted ad infinitum; besides these Soldiers at convenient intervals, do at least as much work as is equivalent to what they spend, and consequently by this way of employing of Strangers for Soldiers, they People the Country and save their own Persons from danger and misery, without any real expence, effecting by this method, what others have in vain attempted by Laws for Naturalizing of Strangers, as if Men could be charmed to transplant themselves from their own Native, into a Foreign Country merely by words, and for the bare leave of being called by a new Name. In Ireland Laws of Naturalization have had little effect, to bring in Aliens, and tis no wonder, since English Men will not go thither without they may have the pay of Soldiers, or some other advantage amounting to maintenance.

Having intimated the way by which thod of the Hollanders do increase their People, ing the I shall here digress to set down the way value of of computing the value of every Head Men and People.

The Me-

one with another, and that by the instance of People in England, viz. Suppose the People of England be Six Millions in number, that their expence at 7 l. per Head be forty two Millions: suppose also that the Rent of the Lands be eight Millions, and the profit of all the Personal Estate be Eight Millions more; it must needs follow, that the Labour of the People must have supplyed the remaining Twenty Six Millions, the which multiplied by Twenty (the Mass of Mankind being worth Twenty Years purchase as well as Land) makes Five Hundred and Twenty Millions, as the value of the whole People: which number divided by Six Millions, makes above 80 l. Sterling, to be valued of each Head of Man, Woman, and Child, and of adult Persons twice as much; from whence we may learn to compute the loss we have sustained by the Plague, by the Slaughter of. Men in War, and by the fending them abroad into the Service of Foreign Princes. The other Trade of which the Hollanders have rid their Hands, is the old Patriarchal Trade of being Cow-keepers, and in a great Measure of that which concerns Plough-

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Ploughing and Sowing of Corn, having put that Employment upon the Danes and Polanders, from whom they have their Young Cattle and Corn. Now here we may take notice, that as Trades and curious Arts increase; so the Trade of Husbandry will decrease, or else the Wages of Husbandmen must rise, and consequently the Rents of Lands must fall.

For proof whereof I dare affirm, that if all the Husbandmen of England, who now earn but 8 d. a day or thereabouts, could become Tradesmen and earn 16 d. a day (which is no great Wages 2 s. and 2 s. 6 d. being usually given) that then it would be the advantage of England to throw up their Husbandry, and to make no use of their Lands. but for Grass Horses, Milch Cows, Gardens, and Orchards, &c. which if it be so, and if Trade and Manufacture have increased in England (that is to say) if a greater part of the People, apply themselves to those faculties, than there did heretofore, and if the price of Corn be no greater now, than when Husbandmen were more numerous, and Tradefmen fewer; It follows from that fingle realon

Reafons

reason (though others may be added) that the Rents of Land must fall: As for why Rents example, suppose the price of Wheat be do fall. 5 s. or 60 pence the Bushel; now it the Rent of the Land whereon it grows, be the third Sheal; then of the 60d. 20d. is for the Land, and 40 d. for the Husbandman; But if the Husbandmans Wages, flould rife one eighth part, or from 8 d. to 9 d. per Diem, then the Husbandmans share in the Bushel of Wheat, rises from 40 d. to 45 d. And consequently the Rent of the Land must fall from 20 d. to 15 d. for we suppose the price of the Wheat still remains the same: Especially fince we cannot raise it, for if we did attempt it, Cornwould be brought in to us, (as into I-Iolland) from Foreign Parts, where the State of Husbandry was not changed.

And thus I have done with the first principal Conclusion, that, A small Territory, and even a sew People, may by Situation, Trade, and Policy, be made equivalent to a greater; and that convenience for Shipping, and Water-carriage, do most eminently and fundamentally conduce thereunto.

CHAP. II.

That some kind of Taxes and Publick Levies, may rather increase than diminish the Wealth of the Kingdom.

IF the Money or other Effects, levyed What shift I from the People by way of Iax, ing of Money from
were destroyed and annihilated; then hand is'tis clear, that such Levies would dimi- profitable nish the Commonwealth: Or if the same or not. were exported out of the Kingdom without any return at all, then the case would be also the same or worse: But if what is levyed as aforefaid, be only transferred from one hand to another, then we are only to consider whether the faid Money or Commodities, are taken from an improving hand, and given to an ill Husband, or vice versa: As for example, suppose that Money by way of Tax, be taken from one who spendeth the same in superfluous cating and drinking; and delivered to another Who  $\mathbf{D}_{2}$ 

Chap.