

Donoghue of Dunno Weir, Resemblance and Biometry Notes

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183 Euston Road
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T +44 (0)20 7611 8722
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1. Donoghue & Dunno weir

24. Resemblance
traits

27 Biometry



books taken to Riviera in spring of 1901

FLC



f1v

Calculated $1/16$ mth $\times 250 = 2500$ mths out of capital of

Greek ideal of Soundness in mind & body
Greek reverence for beauty & strength

Feb. 11. Keep on going

f26

ought to be a custom; Mrs. G.

other motion

in health to
Superintendent at Danmoor

Ch Rabbi of D.

* Passion for good of the Society

Partial not total C. 1st. We

in board of an alien ship

Personal service expected

Printed as A & B respectively

Interchanges practically now & then

* Law of large numbers

in open but bullocks

Religious dogma to fall into the
endowment of the fittest

Must grow - a club with
admission for a limited time
or election after full power
determined - Subdivision of club
swarming - new hives

"Love of country is a piety & duty & hereditary law" How England saved Europe

Customs & municipal regulations all directed
to healthful rearing of families

College of Statistics of Evolution & Darwinian Institute - inquiry into fertility

No of club minimum 20 yearly. Say 1000 - better 500 or 1000 families

Club laws - no law more

Conditions that favor the production of large & healthy families

Factors of Efficiency - Webster's system

Force of family life

Describe the first stage as an experimental

Organic Birth - to be upheld

Each society should be a self-contained cell - these cells grouped into larger

Domestic family, broader of culture & wealth like Götting - Why not breed men

no family to settle that is not A & B in contact with them

Every new comers must be examined & certified

1899 (A.B. for statistics)

Rank of large counts, established greater than this scheme and far more display

chiefly working a lower middle class - of settled occupations

Constitute for restrictions on marriage & marriage

When fairly started with traditions & regulations, advertise vacancies as they advertise

£10 a head annually for 2000 families = 10,000 a year allow £20,000

A park a statue near a large town, easily accessible

Attractions (1) a green space, healthy, pretty houses, selected neighbors (sanatoriums)

Restriction - Test certificate - Annual examination of the club facilities for raising healthy children

Requirements - Certificate - character - local bond of large families

Restrictions against over crowding by London - Old people past childbearing age, continued

Don't waste time - Too little of it catches nothing; too much is unnecessary - find ways

All of fine physique & good character

Bedford Park

Costs { agency 1 500
statistical medical 1 500 clerk 120

f2v

Gymnasium & playgrounds

Library

Sanatorium (rest home) 1000

Building fund

Connected with a breeding establishment of horses cattle & all sorts of stock

W^d - attract one another - less inconveniences - no squelch - similar time & table of work

^{in charge of a cheap localities}
Might bring strong individuals ^{live where they would persons w^d find it distant}
The very likely to rise would be better suited for leaseholders than freeholders
Facilities for large & young families health, education, exercise, play, measurements, Sanatorium

A store & a public house (managing other) both tobacco & other necessary institutions
^{play hall & gymnasium}

No freehold. the whole under one proprietor, who works it at a recognized moderate
^{with 12 years notice to quit on either side}

loss, but so that when well established & made very accessible, it would be

disposed of as a whole as a valuable estate, & possibly a new undertaking

of a similar kind be started elsewhere from the funds so obtained.

Careful accounts to be kept. (open to managing other)

Unless franchise can be got of the desired sort it w^d not pay
therefore the proprietor must consult the wants of the tenants

Every thing to be subservient to the successful rearing of ^{large} families likely
to inherit good natural dispositions, energy, and a fine physique.

Measurements, records & the like to be gradually introduced, & a
medical factotum to take care of all that.

10000 inhabs = 250 ^{adult males} ^{80 families} ^{250 women} = 5000 children.

Drill in shooting, for army & navy, habits of discipline.

Boys ^{agile} work yet in a Reformatory School productive

W^d be a passport for employment.

For sickly, kindness, give pleasure, relieve pain, but do
not encourage longevity. Discourage reproduction

Self created advantages &
Endowment ditto &

Reat at market value of same class of houses ^{as superior property} ~~but~~ ^{with} ~~2~~ ¹ ~~endow~~ ⁱⁿ ~~sq garden & some amenities worth £5 each~~

The advantages are self created, as in a famous club of which the Subscⁿ is no more than in a second rate one.

Estate of a big park, all leasehold only, 6mth notice, wh^{ch} ^{is} ~~is~~ ^{is} ~~surrounded~~ ^{is} ~~by~~ ^{by} building estates of freeholds & leaseholds.
Building fund to pay fair interest just as others.

? give in gratuitously certain amenities out of an annual fixed income to be partly under administration of a class

Small home farm, breeding stock to pay within some determined margin allowed for the pleasure of doing things well. No high farming or high breeding. Garden & etc. Keep careful acc^t ^{distinguishing necessities & luxuries} liberal economy. ^{as well as if sold a capital invested in shares} Of course it can't pay ^{which the paper does not} but may give a great ^{many} ~~deal of~~ pleasure. Working a large establishment that is nearly but not wholly self supporting. Every variety - live stock. Horses ^{ponies}, cattle, sheep, goats, pigs, donkeys, ^{turkeys} fowls, ^{pigeons} ducks, dogs, cats, rabbits. Plants to seeds, mill, blacksmith, cottages. Experimented allowance for. A great family seat shooting stable society costs much more

The Donoghues of Duane Weir

The majority of very wealthy people spend their money & time
in much the same general fashion, such as Society
approves, in large establishments and in so called social
duties. Others have strong individual hobbies and chief
amusements among these are the family I am about to
describe, which consists principally of a father, John Donoghue, about 75,
a man of age & two sons, a third son died rather
in early manhood. He had been crippled by a fall when he was
a boy, which the effects of which he had particularly
towards disposition and (an eager mind) whose effects while
he lived & whose memory afterwards exerted as we shall
see a powerful effect on the conduct & ideals of his father
& brothers. The father, when he had taken on his early days an
active share in the great business (which as a shepherd;
~~partner~~ he owes his present huge fortune. He had a
kind shrewd & far business faculty accompanied with great
benevolence & simplicity, in a way not uncommon among
Quakers (or Quakers) of whose blood & traditions he inherited
a considerable share. His own father, Jacob, who was dead some years
ago was a noted breeder had the hobby of high stock-
breeding, and in

f.6v

Joe Math	born	1800
		5
		10
		15
		20
married	born	25
brought	born	30
built	born	35
		40
		45
dead	at 25	50
at 50	married	55
	born	60
	born	65
great	at 17	70
at 22		75
at 22		80
		85
		90
		95

75 at 48 1900

20 years experience of great home 10 km
150 families - 100 families

$20 \times 5 \times 4 = 400$
 $20 \times 10 \times 4 = 800$

	Week	Month
rent per week ($\frac{1}{2}$ 26 a year)	10 ³	
food for family per week average	1.10	
furniture wear & tear per week say a washing, clothes	10	
Rent 1 to 4 for each week	10	
	<hr/>	
	3. --	12. --
Commons & grazing of family - all expenses		1
Thorough clean at end		<hr/> 2
		15.

120000 £
 120000 £ per an. 8 hours
 120000 £ 8 hours

Copy 25 a week = $\frac{52}{25} = 2.08$ $\neq 65$
 10 h = deposit = 15
 120 = bills
 65 = change
 5
 55
 4000

Mar	31
Apr	20
May	31
June	30
July	31
Aug	31
Sept	30
Oct	31

$$\begin{array}{r} 8 \text{ houses} \times 8 \text{ families} \times 20 \text{ eggs} = 1280 \text{ families} \\ 4 \text{ houses twice as costly} \quad \quad \quad = 1140 \\ \hline 2420 \end{array}$$

$245 \text{ days} = 35 \text{ weeks all day}$
 Sub last change $\frac{35}{3} = 11 \text{ weeks}$
 $7 \text{ weeks} + 11 \text{ weeks} = 18 \text{ weeks}$
 $32 = 8 \text{ lunar months easy}$

1 to 10

(a single horse costs about as much as a horse annually) 1 horse during 20 years $8 \times 20 = 160$ francs -
including his wear & tear, harness, laces, etc. 10 horses ————— 1600 "

Exhibits

Endowment of the estate 100 houses in all £10 annually per house another 1000

parent + child 10-00

Public buildings capital cost 9000 by £250 annual. annual $\frac{250}{525}$

Better horses cost all through, $2\frac{1}{2}$ times as much as 260 each on average

$3 \times 8 = 24$ families annually in there or 2400 in a 100 year
 time. But for the 100 year time period, the cost is estimated at \$10 a year

Average tenure 10 years \times 15 years, 150 families.

Stock rate as well as a poor rate

The same spirit in what is comprehensively known as charity may be divided into 2 portions - that which helps the individual and that which encourages his ^{moral} breeding & preservation. So far as the latter can be clearly isolated and considered apart from the former, its existence is a national misfortune & so far as it is excessive & exercised if a crime. The same is true of all intemperance ^{and the more} clearly all this is brought up-
held and hammered into the popular imagination, the better it will be for our national welfare. But I am ^{not} now going to dwell on ^{the other or secondary side of the question}
^{but the first} bright side of expression of the bread of the wofe. The object of these remarks is to discuss how to further the breeding of the fit, by reasonable methods.

[illegible]

To catch the most fish with a given quantity of bait, there is a ~~just~~ a suitable sized piece must be put on the hook. If too little no fish will be tempted to bite at all, if too much it is wasted.

"If they let houses below their value, workmen as a whole would be taxed to give the favored few cheap houses."

Mr. Ernest Noel speaks as Chairman of the Artisans' Labourers, and General Dwellings Co. (limited). Offices in St. George's.

"High class building was not appreciated what the people wanted was as large a room at as small a rent as possible. The poor could not be properly housed in London if the market value had to be paid for the land." Sir Richard Farrer's speech.

Being all picked men they w^d have some superfluous energy to bestow on the amenities of their house, or other settlements they w^d not be overburdened men, like those below the mean.

Differences between men - some have endurance, strength & energy but all alike by trade union laws

Must not expect too much - in my A & B classification, they should be B & upwards in both character & physique. If there were independent variables only one in 10 w^d be suitable but they are correlated, so the selection might be of the order of 1 in 10

Take my word for it Samson

The poor is the loom in bed.

(quote man)

& he justifies himself by scriptural analogy (as the Deot is said to quote Scripture for his purpose)

Birds of a feather flock together

Under present system this is hardly possible - Exclusion & Co.

How far could tenants (wage) & the selling value of the property be compensated in the end for what they have done?

The cost should be calculated on market value at starting & future rentals fixed accordingly, no unearned increment being allowed

Well to do philanthropists might act as social godfathers & the B. & C. Society (perhaps in connection with Selection) might look after their welfare.

They w^d be competent to think & maintain mutual help Societies & to manage Socialistic experiments without the aid of paternalism

1 in 100 houses = 1 in 1000 of pop. artisans generally. It is reasonable to expect that now & then a grateful & successful man w^d contribute to the movement

Brokers, ^{huggery} ^(? Cyrie) ^{man one of a word like Primate} ^{Superior class} ^{Superiority} ^{housery} ^{generous} ^{Eugenic} ^{choice race} ^{A Eugenic class} without any environment st^d have attractions enough to maintain itself just as a good social club has

or ^{sell} ^{the land} as freehold, when once established, subject to conditions of not over-crowding with tenants. Let them 'wait' then at low rates the settlement w^d have to be nursed until ready to stand by itself.

Promotion of Eugenism in men.

Houses of various sizes as is to be in a town like other only. Inhabited by a good breed of men of all ranks

Follows of college, quarrel, & perhaps in intellectual tide.

Information Office. In place & for statistics this might be endowed.

(Then for up to morning of March 10 1901)

P.B. r

General remarks on improvement of breed

Brief account of how the experiment originated

the present state

problems under discussion pros & cons

Chair L. report ^{has} future general meeting ^{to} decide.

f. 13v



General remarks

f. 14/2/3

Men must be dealt with quite differently to animals by means of
methods that encourage the fertility of the fit & discourage that of unfit
Law of large numbers - very venial to violate one person, criminal to
force of public opinion

What we want better disposition health physique & energy
best we can fairly hope to gain considering reaction
a higher platform to start from, where now highly gifted will arise
measurable heredity -

Types of men - may hereafter select representative types
Slow ^{but certain} progress still a man of 75 may with these children ^{adult} ^{or pl. as}
of his own & of his contemporaries - live in hope
^{but grow children}

Worst enthusiasm to thrust a new society, then
it must run on its own merits

The material exists in scattered particles, wanted more ardently
that they may combine

Socialism is already so much in the air - let its
good points reject the leveling down, let competition be
under worthy motives.

Pro

Problems

Con

A14b

freelance. One person to do all the work
on the premises w/ be free men - no pulpit
offer of administration

Health

Birth for the army & navy - habits of discipline
after men w/ be more reliable about health conditions & more families

Endowment

many being likely to rise in time local endowment
Gymnasium & play ground.

Store

Transportation

Stock rate as well as bond rate!

batched

at market value of similar houses in similar position

Render it unless closely supervised

Selection

Candidates to secure abundance of - must consult
hospital's wishes

athleticism, Royal Society - Selection

Constitutional men, charity organizations, reserve soldiers

all classes above lowest

fine qualities are correlated. require of selection by 1 in 10

Qualifications. - Don't want geniuses or orators

or too hot radicals

all people who need not be in town before say 9 am.

clerk, shipkeeper - some artisans

Attractions

Self created advantage & endowment

w/ be a passport to employment

best of the things that will attract most at minimum cost

Social good failures

informalities of a hanging together

more interesting to live among people of fine play more than

Place become easier to reach than it was by bus - cycles

High class building, not appreciated

Must not expect too much. - but fine qualities are correlated

Followed College of Social Science & R.S. sometimes

the way of

Intellectual level of artisans in some American factories

Name looking, piggy, turnery; Sagenic club
the Healthers

not piggy

Health & broad clubs

Can it be considerably expanded as a self
maintaining settlement and under what regulations

Otherwise could it be to if endorsed moderately &

to what extent

A.15r 14

THE STANDARD,

MONDAY, MARCH 18, 1901.

How to provide healthy homes for artisans is a problem not confined to London, and Mr. GEORGE CADBURY is making a generous, and at the same time business-like, effort to translate the idea of the PEABODY Trust into country life. In a Deed which we summarise elsewhere, he has conveyed to Trustees about three hundred and thirty acres in the parishes of Northfield and King's Norton, in Worcestershire. This estate, Bournville by name, lies near two manufacturing villages, and is about four miles by railway from the centre of Birmingham. It is in an upland district which culminates, a mile or two to the West, in the elevated ridge of the Lickey Hills. On these, which rise to a height of some nine hundred feet above sea level, and command a beautiful view over the Severn Valley, much ground still remains unenclosed—a moorland overgrown with heather, bilberries, gorse, fern, and other herbage. The soil is generally dry on the Lickey ridges, and indurated sandstone crops out from the surface. Thus the site should be an exceptionally healthy one; in fact, the neighbourhood of late years has become a rather favourite residential district with the business men of Birmingham. The donor hopes that the scheme, once started, will be more than self-supporting, and will fructify in time into other similar undertakings. About one-third of the Bournville estate has already been laid out. Three hundred and seventy cottages have been built on it, the majority of which are let, but one hundred and forty-three have been either sold, not absolutely, but on nine hundred and ninety-nine years' lease, at cost price, or in some cases on a form of gradual purchase. There are also at present two hundred allotments, which are in much demand among the inhabitants of the two neighbouring manufacturing villages. The Trustees are empowered to give sites for places of worship, schools, hospitals, and other purposes likely to be for the benefit of the community.

-blic-houses are practically excluded, for the sale of alcoholic liquor is only permitted when it is not for individual profit, when it receives the unanimous consent of the Trustees, and on the ground that total Prohibition would lead to greater evils. The erection of a factory on this or subsequently purchased estates is not forbidden, but only one-fifteenth of the whole area is to be used for such purposes. This concession is probably a wise one, for village industries, such as nail-making, are rather common in that part of Worcestershire. But, as a set-off to this, one-tenth is to be laid out in open spaces, and of the remainder not more than a quarter is to be actually covered with buildings. Thus, out of fifteen acres one might be occupied by factories, but we presume that nothing noxious, such as tanning, smelting ores, or certain stages of paint making, would be allowed; two acres would be recreation grounds, and nine would be cottage gardens. This ought certainly to carry out Mr. CADBURY'S leading idea of giving the men who are confined in a factory during work hours something to amuse and to occupy them out of doors. This, it is hoped, will greatly help in maintaining the physique of our race, than which few things can be more important to the future of the country. In this way also a much better return will be got from the land. Under pasture it is estimated to yield less than five pounds worth of food to the acre; by spade husbandry ten times as much can be obtained. Here, also, one serious difficulty of *la petite culture* will probably be avoided—that of distribution—because the local demand from Birmingham will facilitate the sale of such garden produce as may not be consumed at home. Much will depend on the management; if the estate is conducted on sound business principles—and the founder clearly desires that it should be—the scheme should be a success. The problem how to work in a city and yet enjoy a healthy home will have been solved for perhaps a thousand families, but this has only been made possible by the free gift of an estate worth at least one hundred and seventy thousand pounds.

f.16r 15.

Mr. George Cadbury has conveyed to trustees an estate of about 330 acres in the parishes of Northfield and King's Norton, in Worcestershire, for a novel experiment. This estate, known as Bournville, is about four miles from Birmingham, and it is devoted to the purpose of ameliorating "the condition of the working class and labouring population in and around Birmingham and elsewhere, by the provision of improved dwellings, with gardens and open spaces, and by giving them facilities, should the trustees think it desirable to do so, for purchasing or acquiring the necessaries of life, and by such other means as the Trustees may in their uncontrolled discretion think fit." The desire of Mr. Cadbury is that, as far as practicable, about one-tenth part of the land shall be laid out and used as parks, recreation grounds, and open spaces. About one-third of the estate has already been laid out. Three hundred and seventy cottages have been built, the majority of which are let, but 143 have been sold on terms advantageous to the purchasers. There are quite a number of allotments, and it is expected that the scheme will not only be self-supporting, but will lead to the creation of similar undertakings.

I have read with ~~interest~~ ^{notice} (which I refer to) with
~~extreme interest~~ the fact that a most magnificent & yet a business
 like scheme has been ^{set on foot} ~~conducted~~ by Mr. P. Cadbury for supplying 1000
 artisans, with healthy homes, in the first instance at least than the
 normal ^{rentals} ~~rents~~ in the neighbourhood of Birmingham. ^{are three of them now nearly completed}
 the cost has been very great, ^{also that although}
 he has ^{now that it is finally} ~~been~~ ^{started} the scheme ^{it} ~~has~~ ^{with facilities}

ultimately become more than self supporting & with facilities
 in time in other similar undertakings. I with interest
 have their brief general statement as an ^(which I have no means of verifying) introduction to the following ^{remarks}
 which has often presented themselves to my thoughts

~~I have no means~~

Slatternly or termagant wives

The first artisans ^{do not seem} as a body ^{to have} insufficient ^{original} capacity ^{to carry on} cooperative schemes by themselves. Those that I know

seem more or less ^{permanently} established themselves ^{usually} ^{the guidance of} ^{one is more leading} ^{personality} ^{in things they have learnt to do} ^{But, if we consider it as a whole} ^{let us divide the laboring class}

into four equal groups, according to their civic capacity, R being the lowest, M the lower-mediocrity, N the higher mediocrity &

R the highest class. ^{on the other hand} ^{the conclusion is that} ^{the average} ^{of ZMNR} is

too low to carry on cooperative or sociological work without guidance, yet the average capacity of R taken by itself might be high enough to do so. In other words the ^{average} ^{should be sufficiently attractive to encourage}

^{marriage} ^{candidates} to apply ^{whenever a} ^{vacancy} ^{occurs}

the apparently most suitable ^{among them} ^{in character} ^{or gifts}

& physique should be selected to fill it. Let home, say all means be built for the use of the others but not on the same ground. I want to say

low a settlement will thrive when its members
 are selected at about the rate of one in four.
 There would be no feckless characters, ^{no}
 overwrought ^{herons} ~~men~~ ^{or} women, ^{no}
 termignati ^{low} ~~low~~ life. A workman
 of the R class ^{would} easily get through the daily
 task, limited by trade union rules ^{to} ~~to~~
 make it possible for an ^{of the} workman to
 do it, and has superfluous energy when it
 is done, ^{disposes} for his allotment & for healthful
 recreation. The social tone of the
 settlement would be conspicuously higher
 than that in artisan quarters generally.
 The settlers w^d soon learn to take a patriotic
 pride in it. They w^d be mutually helpful
 & would probably keep an Information bureau
 laid at work to find occupation for the
 lads & girls as they grew up. The very name
 of the settlement would be a powerful introduction.
 I want to see the settlement freed from
 grandmotherly care & from patronage. There
 must of course be strict regulations about the

f 13, 18

basehold tenure of the lower, that an
undesirable tenant need not have his lease
renewed. Probably also the tenancy would
lapse on the death of the holder as that of
a rectory does. But these important
details I need not enter further now.

191

My mind book of

contains many improvements & 191
 contains many improvements & 191
 contains many improvements & 191

English artisans when acting as a body of men
 with equal political powers ~~are~~ ^{are} gifted with too
 small ^{individual} doses of civic capacity for the successful carrying
 on of cooperative ventures. They may succeed under
 the leadership of others; but if left to themselves
 there is so much improvidence, unreasonableness
 mutual suspicions, idleness & so forth among their
 ranks as to disintegrate & finally to ruin the cohesion
 of most promising schemes. But though the

average civic capacity of the artisans generally
 is too low to achieve ^{cooperative} success it is more than
 probable that ~~that~~ of a ~~few~~ ^{selected} portion of them
 would be ^{high} ~~enough~~ ^{enough} to carry out many
 cooperative & ^{socialistic} ~~socialistic~~ schemes with success

The fact that ~~the~~ ^{of its existence} ~~has~~ ^{is} a settlement as that of Mr.
 C. Cadbury is ~~actually~~ ^{great scheme} ~~coming into existence~~ ^{is} ~~seems~~
 to show that an experiment of this kind is ^{certainly} ~~feasible~~ ^{possible} ~~to~~ ^{to} ~~consider~~ ^{consider} ~~results that~~
~~it seems~~ ^{it seems} ~~capable~~ ^{capable} ~~of effecting~~ ^{of effecting}. Here though the

manifest philanthropy of a wealthy individual
 houses are actually offered at less than their normal
 cost. It stands to reason that if their tenure is

accompanied by distasteful conditions, then will be
 many applicants for each house as it becomes vacant.
 They will select the best. As for the others if the price
 which I want to see done is that

f.20r 19

English artisans ^{who acting} as a body of men ^{with} ~~having~~
 equal voting powers, ~~do not seem to be~~ ^{not seem to be} ~~endowed~~ ^{endowed}
 with ^{too much} a ~~sufficient~~ dose of natural civic capacity
 to enable them to originate & ^{for} ~~maintain~~ ^{carry on} cooperative
 & sociological ^{we} ~~schemes~~ ^{plans}. Their average gifts are too
 low. They ^{may succeed under leader whom} ~~get on well enough~~ ^{when led by those}
 they trust, ^{but} ~~but~~ ^{but} ~~their~~ ^{their} ~~improvidences~~ ^{improvidences}, ~~unless~~ ^{unless} ~~aided~~ ^{aided}
 by natural ^{fanaticism, small psychology of individuals, from} ~~suspicion~~, ~~illness~~, & ~~so forth~~ ^{are generally}
~~suffice to soon disintegrate~~ ^{before long & ruin in a short time from it} ~~the~~ ^{the} ~~most~~ ^{most} ~~valuable~~ ^{valuable} ~~factor~~ ^{factor}
 in ~~constituting~~ ^{constituting} ~~undertakings~~ ^{undertakings}. But though ^{whole body of} ~~the~~ ^{men as}
~~a whole~~ ^{a whole} ~~are~~ ^{are} ~~incapable~~ ^{incapable} ~~of~~ ^{of} ~~too~~ ^{too} ~~low~~ ^{low} ~~an~~ ^{an} ~~average~~ ^{average} ~~type~~ ^{type}, it
 is more than probable that ^a ~~a~~ ^{portion of these} ~~a~~ ^{moderately} ~~moderately~~ ^{selected} ~~from the~~ ^{from the}
 general body of the best would form ^{not} ~~a~~ ^{not} ~~be~~ ^{be} ~~too~~ ^{too} ~~low~~ ^{low}
 to be ^{sufficiently} ~~high~~ ^{high} ^{type} ~~to~~ ^{to} ~~carry~~ ^{carry} ~~on~~ ^{on} ~~a~~ ^a ~~few~~ ^{few} ~~of~~ ^{of} ~~the~~ ^{the}
 cooperative & other ^{sociological} ~~works~~ ^{works} with success.

The existence of such ^{such} ~~institute~~ ^{institute} ~~settlements~~ ^{settlements}, as that of
 W. G. Cadbury ~~seems to offer~~ ^{seems to offer} means for the experiment.
 Here through the magnificent philanthropy of a wealthy individual,
 houses are offered to tenants ^{conspicuously} ~~below~~ ^{below} ~~their~~ ^{their} ~~normal~~ ^{normal} ~~rental~~ ^{rental},
 consequently if no deterrent conditions are imposed, there
 will be many applicants for each house as it becomes vacant
 from among these select the best. As for the others if

in the selection of the applicants (by a class otherwise) and they f20v
will have considerable power of administration. Then the rental
might be gradually raised according to a scale of predetermined increase
up to their moral value.

Though the attraction of superior cheapness will by
that time have ceased, the ^{the attraction} of its social advantages would
have increased.

whose ^{high} standard is preserved through the principle
of selection, ^{from the over numerous applicants} ~~by means of the~~
~~principle of selection~~ ^{not of nomination}. Why indeed
should not the better class of workmen, form a club
settlement?

to build

houses are to be built for them, let it be in another

locality. ^{The object is to produce}
~~that I want to see~~ in a settlement inhabited ^{roughly} ~~by~~
 only by picked householders, who will be ^{gradually} ~~granted~~
 large plots ^{in the settlement} ~~over the settlement~~ ^{and the houses attached}

~~The amenities of the place may have had~~ ^{and even} ~~the better~~
 class of workmen, ^{it is} ~~social advantages~~ ^{arising out of the selection} ~~would be at~~
 least equally attractive. ^{To belong to the settlement} ~~It would be like belonging~~

to a good club. ^{the neighbourhood of} They would be ^{free} ~~safer~~ from feckless
^{sluggards & low class characters} ~~shallow~~ ^{neighbours} & from ^{feckless} ~~temerarious~~ women. Their
 life would be vigorous, ^{because} ~~for the sake of~~ ^{daily work in each artisan} ~~as workers~~
^{being limited} ~~by~~ ^{trade unions} ~~that~~ ^{to what} ~~the lower medievities~~
~~can get through~~, ^{and that it} ~~would be~~ ^{far} ~~worth~~ ^{the powers of}
 picked men, leaving ^{to each of} ~~then~~ a considerable margin of ^{disposable} ~~energy~~
^{for} ~~allotments~~, ^{recreation}, ^{social pleasures} ~~administration~~ & so forth.
 There would be no signs of overdrudgery, ^{for every man} ~~but~~ ^{he} ~~would be~~
 working within ^{his} ~~their~~ powers. It stands to reason
 that an ^{such men} ~~intense~~ ^{club settlement} ~~they~~ ^{would be proud of their village & would}
 exert themselves to maintain its standard.

The better picked men would be less improvident than
 others, & would ^{rather} ~~would~~ appreciate healthful appliances of all kinds
 that would ~~diminish~~ ^{be} ~~in~~ ^{conducive} to the vigour of
 their children, and it is perfectly possible in a district

K

who wd be far less thrown in the way of undesirable
 comparisons than otherwise. They would be clannish,
 mutually helpful & not infrequently intermarry.
 I do not wish for a moment to exaggerate the probable
 effect of a selection of the very moderate severity of
 one in four or thereabouts, but am sure that it wd
 be considerable.

When the great advantages of club settlements of
 picked men not of the artisan class only had become
 appreciated at their just value it is not improbable that
 they may start up existence without any endowment at all,
 the tenants recognising the importance of healthy conditions for
 themselves and their children & being willing to pay a ~~small~~
~~endowed~~ price as much for small cottages having those advantages
 as for larger ones without them. I wish to see the settlements
 run without government care & heavy patronage. 1718

future that the social merits of these settlements & picked men w^d be so valued, that they might be carried on without any endorsement, though in that case the more sanitary & attractive houses would be more costly than commoner houses elsewhere that have equal cubic contents but no garden or other amenities and that they would by no means be confined to a single social class.

~~One the more valuable social advantages would be in the immediate help more likely to be obtainable. The very name of the settlement w^d become a passport for employment to the young. (Again the number of these picked men who ^{will long live} raised themselves ^{in life} before long must be ^{large, numerous} considerable & in that proportion would the help ~~be considerable~~ they could give to the sons of former fellow tenants be considerable. (17-18)~~

~~It seems to me that the movement might easily~~ ^{I have most briefly outlined}
~~tate in~~ ^{if so it might} ~~lead to a result that I have much~~
~~at heart, namely the raising of the standard of~~ ^{or a small but sensible way}
~~our race. With the healthy conditions of the settled~~
~~love of life during childhood would be diminished, so the~~
~~families would be both larger on that ground & healthier~~
~~than they w^d otherwise have been. Again it was perfectly~~

a breeding settlement in which under those same scruple or healthy conditions we may be sure that the number of children born to a ^{of parents of good age} marriage, w-~~average~~ ^{average} will be less than elsewhere. Probably it will be more. Again of the conditions of selection ~~might include~~ that of the couple being young with a ~~pros~~ promise of a large family, the natural desire of marriage in early years would not be thwarted by the prospect of that difficulty. Taking all the causes together, diminished infant mortality, early marriage, & probably greater fecundity, the annual contribution of the settlement to the ~~production~~ of children of picked individuals would be notably increased. The effect of the custom of these club settlements ^{should be gradually} ~~would~~ become common, their effect in a few generations on the ^{standard of the} race ought to be conspicuous. It is ~~one~~ problem of the utmost gravity, ^{to the nation} how to increase the productiveness of the higher kinds of human stock & to diminish that of the lower, ^{without any special precautions} perhaps the latter will go along with the former, as we see that the ~~native~~ ^{inferior} rates ^{be found to} ~~decrease~~ ^{gradually} and die away in the face of the more vigorous newcomers.

affiliated to a central Sec.
club
Reasonable enthusiasm. Eugene Septs. 1923

Diplomas stating facts helpful - 2 year's cheap
to give pass values only. A devil's advocate
is another matter not to be provided for
The Harpless lecture might be often devoted
to furthering this cause

Retrospection honors to ^{particular} fathers of large
& successful families

Moham - applause of men peers, scope to action
bread & butter of course, all faculties exercised
healthily, fine health

Many ^{working} ideals of perfection even ascetic puritan
Don't want men moulded alike. But don't want
mean cowardly type, sneaking lazily in
house grow - therefore many simultaneous plantings &
allow of numerous failures. Therefore they
must not be costly. Sh'd be started by local societies
limited freedom of aggregation of like to like - not
necessarily large communities. 10 families w'd do for
each Sept w'd have its own character. A big
society to overlook, help, encourage, work up results
point out deficiencies. - Diplomas of efficiency, of
good points, let the club find out the bad points & blackball

How much annual value of amenities c^d be expected 23
as an endowment to each fam. 13 & for how many years?
5 children 5-10 years f24

The actual experiment

lower now below
normal

Must select. let us try roughly 1 in 4

Incompetence of general body

Comparison of a selected one

more vigorous, - efficient

more providence. Sanitation by
better house. good companions for child & dress
and fewer unpleasant neighbors weed out the

Similar advantages to those of a select club

The attraction. Then are 1 primary value for
a time if it is to become self-supporting

2 social which cost

nothing but are intrinsic to the benefit themselves

The attraction must be strong enough to secure a large
surplus of applicants - but don't waste boat

Endowment of colleges is plenty of precedent. In this
case it is to be for healthy children & healthy parents

Experience will show. Anyhow an endowment

to the amount of that of M.I.C. might keep 1000 families

Looking further than this to be a really a healthy race

selected young couples with large growing families

Excellent facilities for rearing them healthily
Extra production?

Resemblance

f.25r 26

between A & B
Resemblance is infinite ^{large} (within the limits of sense)
~~A & B are practically identical~~ (when no one ^{human} can distinguish ^{them} even when compared directly.
(as 2 new coins)

Resemblance of Zero when there is nothing in either of them
that ^{can} suggest the other, by any association ^{or contrast} whatever.

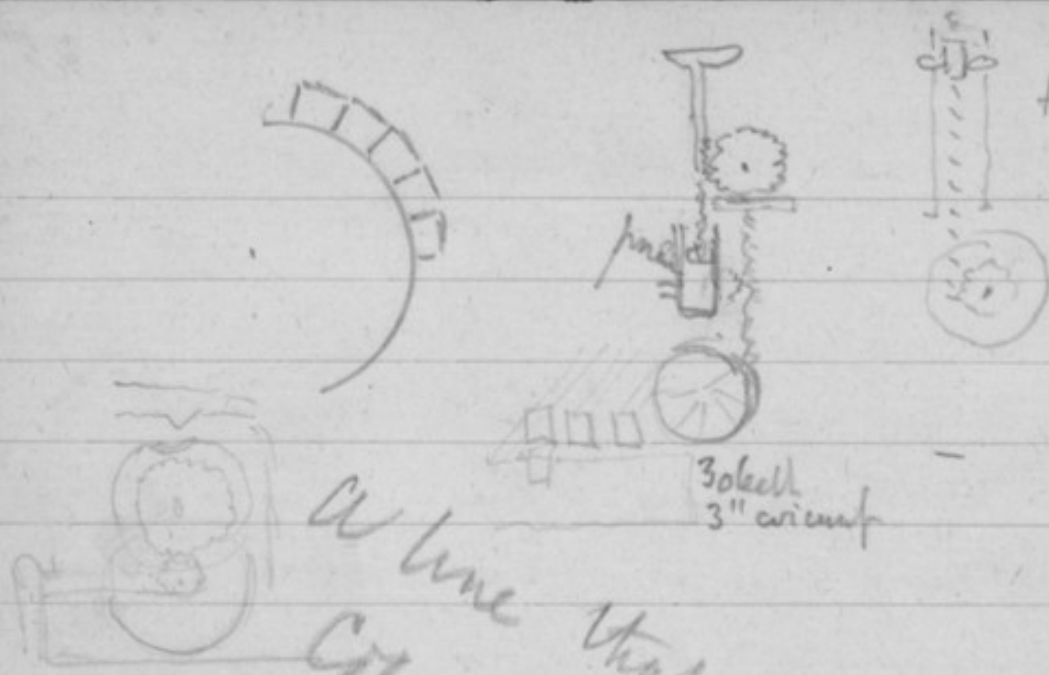
Intermediate stages depend on two different possibilities

- (1) ^{A & B} ~~they~~ may be mistaken for one another by a certain per cent. of persons
^{however}
- (2) There may be traits ^{a, b} in common which catch the attention of
(the disresemblance being ignored) ^{so} that considering
either of ^{may} ~~a~~ or ~~b~~ alone ^{so strongly perhaps as to} suggest the other (to seem identical
to a certain percentage of persons). but it does not at all
follow that all ^{are inclined to} people abstract the same partial traits a & b
some may take a_n b_m others a_r b_s , & so on

Suppression - abolition of - isolation of - ignoring
disregard of - concentration on - elimination - abstraction

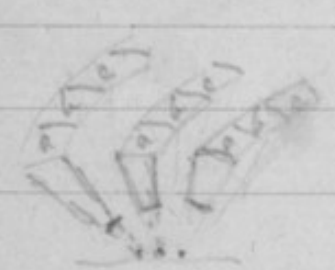
^{of expression}
Traits are lines along which the ^(eye & the) attention travels ^{freely} (through
peaks) attending to them & ignoring more or less the rest
How much can one take in at a single glance? A general
view of such 10° or 15°, a summarizing view of much less

f25v



A line that
Color

30 teeth
3" circumference



as a black cabinet
with the other part green blue
or yellow = 9 combinations
2 of colors = 52 all

? scratches
or from cut line
3 3 3 3 3 3 3 3 3 3

each apparently lifted up.
very broad

one of other of 3 or 4 1 fall on same spoke



One big clinging wheel to turn the other three

Black red green blue orange purple black & white

72 = 49
71 = 343

One recognizes a well known picture of Socrates
at almost a single glance - still the eye travels over,
Best when it travels through it does so ~~in a~~
in a curved line without lateral excursions

Stereoscopic ~~of the~~ greater in faint light, of
form & colour - in faint form, if found

Our knowledge is more linear than spatial, for
the eye wanders long over ^{regions} ~~on~~ things, to be aware that it is there

The way in which the eye wanders is conspicuous by the line
it follows when looking for a small object dropped on the floor

How can one picture this? It is in 3 dimensions

? Could these things be stereoscoped? (did I not try

this with sliced incisions to obtain tombs?) Of course "biographies"



It is a point travelling in 2 dimensional surface that travels continuously
from the eye, the travel being time. This c'd be stereoscoped

Smoked spectacles with a clear spot in front of pupil & turning the head

Spot at 1/2 in of maximum clearness, the rest ^{quite} not dark

A pointer to be moved by hand to place at which eye looks, the

connected pencil to mark a line changing in colour with time

as? by a crayon  that rapidly wears on a rotating disc  making the edge

double or truth independent lines, to give 5² or 5³ different dates

The wheels then must turn in direction of time, like carters

Dear Chas

In reply

~~It is with pleasure that I accede to your~~
 request ^{a few lines} to write in support of your candidature
 for the Chair of Natural Philosophy in Edinburgh Univ.
~~I do so because~~ ^{it is both my duty and a pleasure to} ~~you~~
~~strongly~~ ^{strongly} I give
 high merits in dealing with the multifarious
 subjects that with which the New Observatory ~~had~~
 had to deal. ^{Questions connected with} ~~very~~ ^{different}
 branches of Experimental Physics ^{and which had not hitherto}
~~to be decided~~ ^{considered by themselves alone & to be} ~~judged & acted upon rapidly.~~
 I always felt that in you we had a pillar
 of strength in scientific matters and that
 under your superintendence the ^{reputation} ~~position~~ of the New
 Observatory ^{was safe to} ~~would be free~~ remain clear of any
 shadow of suspicion ^{in respect to} as to either theoretical
^{thoroughness} ~~precision~~ ^{or accurate practice}. Your action
 was also most praiseworthy both in business matters
 & in dealing with the subordinates. I am I leave to,



f.27r 26

Dear Chree, It is with pleasure that I accede to
your request to ~~write~~ write some lines in support of your
election to the Board of Nat. Res. & Hist. & I can strongly
testify to your high merits as a leader with the ~~great~~ ^{excellent} ~~range~~ ^{range} of
various ^{new} ~~subjects~~ ^{experimental subjects} ~~which~~ ^{which} ~~have~~ ^{have} ~~been~~ ^{been} ~~presented~~ ^{presented} for action
from time to time, before the notice of the Res. Com.
during which I acted as its chairman.
I always felt that in you we had in you a pillar
of strength in scientific matters, ^{myself rest} ~~that~~ ^{secure} ~~the~~ ^{against}
^{all} ~~any~~ suspicion of ~~any~~ ~~fraction~~ ~~or~~ ~~of~~ ~~the~~ ~~official~~ ~~blunders~~
or careless practice. In business matters
and again in tactful dealing with subordinates
your action was in every way most praiseworthy.
I have to
Others better qualified than myself ^{to} ~~will~~ ^{to} speak
of ~~your~~ ^{the} value of your ^{original} ~~work~~ ^{work} in physics & in
mathematics. I can only add that I heartily
wish you ~~success~~ may gain the post you covet.

1 (The ^{of} Biometry) ^{knows} ^{logical} ^{facilities} of living beings
 want to ^{help} ^{artificial} to measure them F.27v
 contrast to inorganic

2 (curious ^{idea} - still

^{Recalling} ^{from} ^{what} ^{we} ^{have} ^{seen} ⁱⁿ ^{the} ^{past} ^{array} if children ever ^{very} practiced a little
 or looking they w- interested what
 must allow people ^{to} ^{grasp} ^{the} ^{idea} ^{when} ^{presented} ⁱⁿ ^{an} ^{abstract} ^{form}

^{Biometry} ^{from} ^{what} ^{we} ^{have} ^{seen} ⁱⁿ ^{the} ^{past} ^{array} correlation. relation of arrays to one another
 we isolate a study "errors" - in ^{the} ^{process} ^{we} ^{eliminate} ^{the} ^{errors}
 our conclusions ^{are} ^{based} ^{on} ^{the} ^{use} ^{of} ^{large} ^{numbers} ^{averages} ^{offering} ^{nothing}
 Index of skill in each professional

Here's disease & insurance
 a ^{kind} of 20 days

Great caution & skill in getting states ^{applied} ^{to} ^{each} ⁱⁿ ^{your}
 in armies or many men simultaneously, like conditions
 Darwinian Institute p 29

Simplification for abstract results

3/ ^{between} ^{the} ^{parts} ^{of} ^{the} ^{whole} ^{universe} ^{is} ^{known} ^{to} ^{be} ^{the} ^{connection} ^{between} ^{the} ^{parts}
 want to determine the ^{connection} ^{between} ^{the} ^{parts}
 The whole universe is known to be the connection
 mysticism vast substratum / subject L. 1.30

4th Biometry

Abstract ^{numbers} in study faculties f. 28r 27
Measurement of vital acts sort the multitudinous array
Errors of observation - we assume perhaps to read that inorganic
Contrast to inorganic - it is the errors we are making in our
Common ignorance of the
Averages are but partial descriptions of the basic life of the
we want of a more complete knowledge, The theory of
of them is not well understood

Condition

Probably no certainties anywhere

Index of Remedial ⁺ Curative ⁺ in medical of curative force
Improvements ⁺ Synthesizer, than known alone

Hereditary disease is insurance
Homozygous data is difficult to obtain
In each case, the more genetic data, the better arrangement
- Each case is a separate & distinct study

Homogeneous data of difficult to obtain
in each case but very great care in rearrangement
- sad case of a subgrade repair study

that when you force your will on them, are not really
— ^{spontaneous} asking another

Apartment ^{house} cases among different doctors

Power of suggestion (don't let patients know)

On the ^{of} ~~the~~ ^{possible} experiment a criminal,

Simplification of formulae to a few: results

A cut of 30 days

60 years ago at Bismarck. Old Male & Young?

I went through a Pharmac. myself ^{x admission} up to Croatia where
 (I stayed)

Get firmly out the mind the idea of law with anyone
as with inorganic world or of law
mystically disposed, yet the determination of testimony it - Prayer
What are the facts? Explain them as seems reasonable

The vast substratum of superstition - we have all been babies at which age the Salgiedin world is as or more important than the ^{of these} assoc^d of ideas = ^{of the} place of ^{the} matter things themselves.

In armies the many men are subjected to identical influences, viz. favourable statistics (caution though)

v.v. rarely common, often, v/ta

To know what the writer means his
 reader must understand - If vague he wants it read
 to be equally vague - needs more not left to - force upon
 Systematic notation & cost - variations

f29r28

slightly
 In writing. Ideal of variation is clearly necessary
 Habitual, systematic or. believe 2 or 4 times in 10 less than 10 times
 Often frequently with or without very. On that

Scientific men w. consent to define those words, & at

mean as far as may be correctly in that sense. Set an

exam paper to a number of intelligent persons to be answered

by each separately with questions such as between what
 per cent when saying (1) very, rarely, usually, frequently, and the words "often" & "very often"

intended to apply? & define accordingly in some end

form as "very often" and (1) less than 5 per cent of

all occurrences (2) between 5 & 35 (3) 35 & 65

(4) 65 & 95 5 above 95 per cent

rarely

1 2 3 4 5 6
 1-3 3-5 5-7 7-9 above 9

and 20 20-50 50-80 above 80

and 1 2 3 4 5 6 7 8 9 10 above 10

1 2 3 4 5 6 7 8 9 10 above 10

0-1 1-4 4-7 7-10 10

0-2 2-4 4-6 6-8 8-10

0-1 1-2 2-3 3-4 4-5

0-1 1-2 2-3 3-4 4-5

0-1 1-2 2-3 3-4 4-5

0-1 1-2 2-3 3-4 4-5

5 & under	5	1	1
25	2	3	
40	4	7	
25	2	9	
5	1	10	
10			
1			
2			
1			

forget page but one

Harmonia Tuckale

Correlation between A & B

if a deviates ^{2c} distance from its point of mean rest
it will ~~move~~ ^{deviate} some definite fraction of that distance, say $m \times 2c$

Here m is the index of correlation between a and b

[illegible]

Arrays

The higher branch of Biometry ^{treats} arrays like ordinary
geometrical figures; ^{expressing} ^{their shapes} by compact formulae
which ^{may be notationally} ^{expressed} ^{numerically}
whereas their leading peculiarities ^{are} ^{not} ^{expressed} ^{numerically}
the closeness of ^{the} ^{relations} ^{that} ^{unites}

in fact, (each member of a given array) ^{with each d.} all the members
of another array, that refers to a correlated form, or character

Experiment without words or, following
paralysis of right side a lot of speech

The mind is just prone to bias & mental perspective

Evolution changes time they often & how often are
L'sports

Darwinian Institute difficulties - makes
no universal holidays as a Univ^d

Editor
Editor
Consultative referees
Consulting Editor

I Method
II Theory

Biometry

"Calculus of Variations" there the thing in itself is constant & we try
to eliminate errors of measurement
Contrast to physical measurement - here we isolate & study a single
in respect to constant or the average of a multitude (it is itself not exact)

Mystical reluctance to statistics - subversion of superstition, irrelevant
unhelpful
yet all it was supposed to relate to the organic & the attraction, explain things
you can't

(Curious coincidence of paper & achievement of biometry, & still more of it)

→ Army (useful) & a child to get w. from understanding

Correlation multiple
Poisson's method
Caution & skill, value of criticism

Scatter data has been collected

next page

Distribution
single qualities taken separately
described of a Species, its faculties
d. Fortitly

p. 30v

> Constants

Correlation Relation between the faculties
Influence of selection from a single cause
Cannot select one without more or less other taxes & wheat

Heredit
Kinship

show time, tint, sound

What can be measured (directly or indirectly)
(or compared)

Limitation of work no good accuracy needed except
in method a great groundwork

P. 31v

$$R_1 \quad r^2 + \left(\frac{r}{2}\right)^2 = r^2 \left(\frac{5}{4}\right)$$

$$R_2 \quad \left(r^2 \frac{5}{4}\right) \times \frac{5}{4} = r^2 \left(\frac{5}{4}\right)^2$$

$$R_n = r^2 \left(\frac{5}{4}\right)^n$$

If even a child ^{to be familiarised with the simple acts of} ~~was~~ ^{sorting} objects into arrays and in picking out the ^{elementary} features ^{such as the middle one or the extremes,} of those arrays, he would realise the fundamental principles of ^{the proper} statistical treatment ^{more correctly & vividly than} ~~science~~ ^{many} men of ^{considerable} mind ^{about the} ~~in~~ ^{mathematical} ~~which~~ ^{information} had been derived solely from books. ^(it is all of a piece with the present information)

The theoretical investigation on which those higher statistics depend is ^{not} ~~not~~ ^{None} but a mathematical expert ^{expected to follow} ~~can follow~~ while the arithmetical calculations ^{to obtain} ~~to obtain~~ ^{very} numerical results are laborious but there is reason.

trends will form a beautifully regular curve such as mathematicians know how to express in brief formulae, from which the character of the curve and any desired detail

The same is true for any regular series of magnitudes and regularities in it may be calculated, by means of mathematical methods.

Reason to hope that graphic or mechanical processes may be devised for obtaining sufficiently

approximate results with facility, and it

may be fairly argued that we should

expressly accept calculation may be highly justified by

the character of the statistical data, because they are themselves liable

to some small uncertainty - for the reason

mentioned above. I venture to hope

that competent investigators must will

devote their efforts to this important

question.

A few words may be added on the variety

possibly of biometric determinations, which is investigated

than might be expected. In the first place the

whole field of psycho-physics, which deals

with the physical accompaniments of mental states

when it cannot measure those mental states directly.

Waste of Statistics

1 subtle & data 45 pages
2 mathematics (Rascals)

No course of measurement to be really undertaken

Personal bias in selection cases. Very subtle

Evolution - if only the picture of the scheme

Heredit - more words, contains to much

many more words

Influence of environment

f33v

Fertility

Selection

Correlation Nature of human body from a bone

Effect of drugs ratio of dose to effect
of difference in treatment
Wounds time to heal

Curation skill & prof. skill generally

Value of examiner judgement

Power of motives

W² - certainly some abstracts of psych - phys papers prob. sketch
is largely statistical

Measurement of resemblance

P.g. a horse or a picture

Price fixed by average judgement.

I look forward to but not a immediate future -- Sociology

was a storm

The universe as we know it is a mix of org & inorg of org invest - 1/2 as Statist

make a biography of a man before an imagination

as in Adams vision for lost - Camels of history

Drugs & social ostracism require similar treatment

may yield a rich harvest. Thus though pain & fatigue
 cannot be directly measured; ^{it is possible to explain} the concomitant physical
 effects of pain ^{and fatigue} might be ^{fairly} suitable for measurement.
 Prof. Moore most interestingly, of measuring mental effort by
 the amount of blood sent to the brain as estimated ^{through} by the
 blood abstracted from the ^{at large} ^{from} & sampled
^{from} ^{the} ^{arm} ^{which} ^{is} ^{estimated} ^{by} ^{the} ^{amount} ^{being} ^{measured}
 by ^{balancing} ^{the} ^{grain} ⁱⁿ ^a ^{small} ^{narrow} ^{tube} ^{up} ^{or} ^{down} ^{which} ^{the} ^{water} ^{rises} ^{or} ^{falls} ^{as} ^{the} ^{arm} ^{swells} ^{or} ^{shrinks} ^{with} ^{the} ^{temporary} ^{excess} ^{or} ^{deficiency} ^{of} ^{blood} ⁱⁿ ^{it} ^{that} ^{it} ^{contains}

most biometry is statistical
 whether ^{this} ^{venture} ^{succeeds} or not, it is ^a ^{desperately} ^{needed}
 There is absolutely no equivalent
 No history of evolution nor of development
 The slower the steps the more accurate must be the
 Social statistics

Enlène Rivière Apoc Française 1878

Clarence Bicknell. Le Figure Incise ... General 1898
many reproductions

" " Incis: Neufestrie in Val Fontanalle General
separate publication
Soc. Ligustica. Sc. Nat. Genova
Ann. X. fasc. I. 1899.

The depth of the
markings is at the
most 2 mm. in the
newest specimens.
There are 6 to 8 pecks
to each width of length

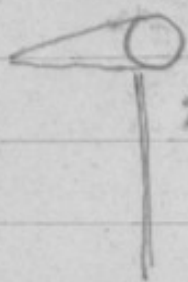
Isolated pecks
are often circular
2 mm wide
sometimes Δ 3 mm

Edges of sculpture are
almost always made by
circular pecks where not caused
they appear to have been made
by the fracture of the stone along lines of short lengths
by 2 mm



both the ploughman & the boy leader

In some few cases the hide or liver
is drawn to symbolize the ox (as in
Egyptian hieroglyphics)



I R

27 Jan 1897

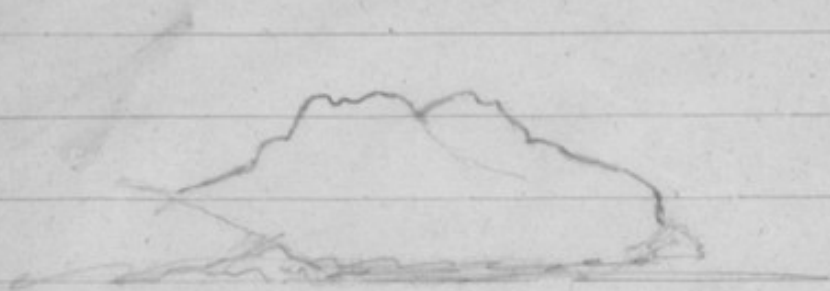
II U

W. Sauer

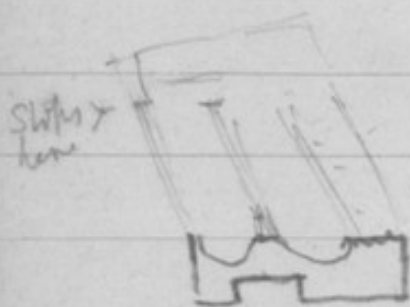
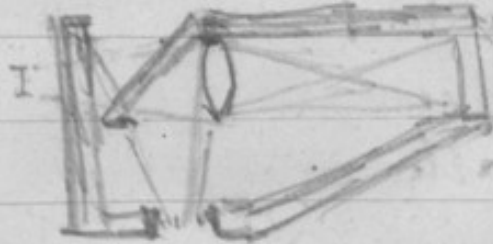


26

35-



Rogue Run from S. Raphael sands March 8, 1901



36
F. 371

$$\begin{array}{r} 31 \times 33 \\ \underline{31} \\ 99 \\ \underline{1023} \end{array}$$

several.

(Mr. Brocknall)^{house} Garden Bordighera
9.30

The flower
when detached
soon perishes
and therewith

IL FIORE
STACCATO
MUORE PRESTO
E con ESSO

the joy of possessing it. LA GIOIA
di Possiderlo.

[illegible]

under net

Point of view
under the hill

No one
a figure
le port d'ore