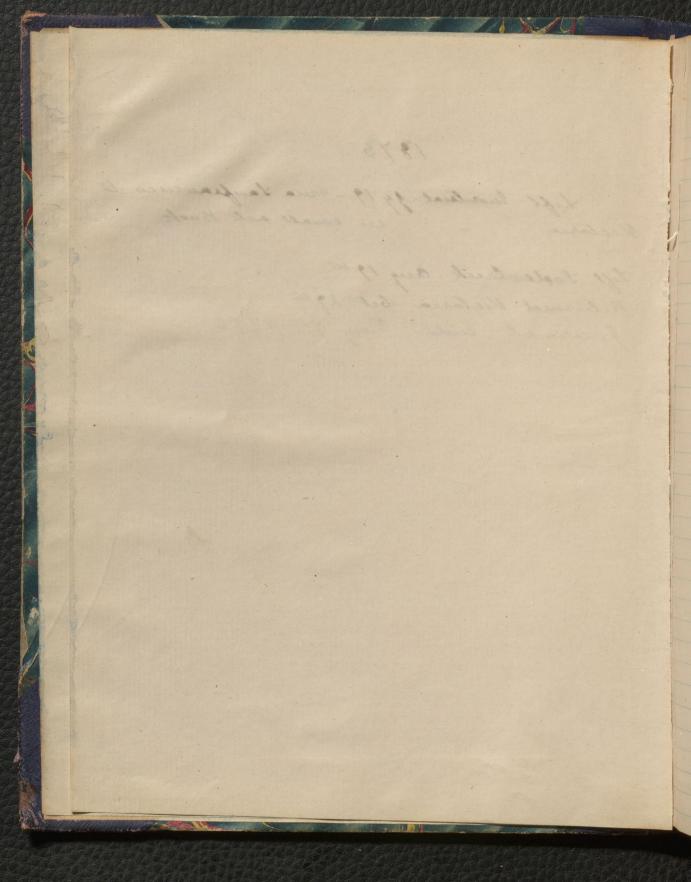


17

1875

Left- Inoutral Jy 19 - via Laufrances co lo Victoria - su small note Back

Left-Taple breck any 19 the Neturnel Victoria Get. 29 the Jaurnal ends. may 9 the 1876



Mall blk note bk marked by 19- ay 10- 18 75 1875 - 20. II + Lee Lwell reste trok fornotes previous t this date August 19. 1875. Leave Soda Creek in Steamer for Quesuelle mouth with the intention of seeing to fet I can there during the clear unavoidable in Colling party prepared for trip Gustward. Had Love on board Steamer the right before. Steamer Etarted about day break . The Steamed up against a Strong Current- all day & arrived at Queruelle about 6 Ru. He total distance is only about 60 unles, but the Current very strong, Scenery pretty, latnot remarkable there being no mountains your Fige in sight. Day tez warm or towards with fall a few drops yrain fall. Evering took a strate down to the ferry of the Questille with Dr former who had teen fellow possenger pour Victoria terry a surrying One operated by the force of the Current of the The river valley at soda Crusk & apeward to Lumble has not the Character of that Seen clowber on the Itage road from yall. The 'Huffs' are in feweral John distance for the Stream leaving on stretch & flet land on one or both sides ythe river. This his Some plans has here occupied for farming, & Lan told crips runture unch lastier than in shin ythe Two southern, but hyber, regions passed through an The Stage road. Here has been unde washing for fold Carried on formerly on the bars & lower Lenches' yethis part of the trayer, but is now abandoud with the exception of perhaps a few claims teld by Chinese

Terraces Terraces are very well formed of dutinet at wany places, at alacandria there are four distinct levels Counting that which is now about 20 feet above the derwhen so Called, is opposete the old 1413. Fort alexander, sin a more about doned. It is to Tives & forms to flet land along it. alexandrie how abandoned. He whole place wears a diverted aspect. Luesnel is a lette village of one row of Formes facing a street which runs along the river. File many ofthere ruing towns it fring ap almost in The Suft does not differ waterially pointhat discribed already on other parts of the Frayer. It does not Dript dong Stow Legus of flacial action, but counts of Land & frewel tests, generally will Stratified though The false hedded. These how apparently at me I have since, durity the recession of the water, hum freducily ant away & formed into Stops.

Signification of the freat Bend, Say 30 rm. above Soda Cr.

Signification rectors appear on the edge of the river.

They are overlaid by about 100 feet of the stratified Sands of gravels of the drift. Suther two or three beauts of lymbe have been the doubt arising from the prossible building of no. 2. So as to make it appear twice. The security separated by Some feel of well stratified Sands or cost sandstones of clays; & Crops out mean the water level. The upper seam appears to be about 2 ft 6 inches thick the met a little thickory of the thickness of the lower is not well shown. The all appears to the well shown the old appears the well shower is but well shown. They are deposited the well showed seams.

Send I have been as fire at an time of oppear on both benefits ofthe Stream When the water is low. Ofprisent only Seen on the last bank. about a rule hyper up on the west beach a clift occurs Which is apparents fried of volcaine rocks, including Conflowerate or Precia; but perhaps include some Sellewentary beds as well. Her dip South weetward at a ligh augle, I are traversed by dykes. On ythere Stands out Deparate pour the cliff. a Stort distance further on when to teamer stopped for wood, observed the drift a few feet above the Water live the filled with large & swell proposents Alignite, more as less rusty & dusupored, Muraking lup out torizontal (amina. Wort fort wills above toda Creck a Seam glywte Severatful thick appears in the wor boulk on the East side, an associated with rocks similar t those before discribed, but with a layer glarge, Spheroidal boulders. Sep lestward at a woderate augle: 17 wiles from Luesned high wassive hills opported oftrops border the river for some distance on the West side 8. Miles from Quesnel on the East hants. The Cliffs Compared gary material, but a mess golder to 45, - vo'doubt yours associated with lights - suddenly Cowe up & form the lyp for a short distance. The are remarkable for their pea from coloris the material being probably day but hard mough to form petbles. Brown Stores resembling wonstone Concretions Occur in free abundance & Strew the Shore below. These unstry the action of the weather have enabled some

parts gete clay to Stand up while the rest has been washed laway, giving the whole bank an extraordinary princially appearance. 1/3 will further up the Stream, brownish & frey arenaceous clays occur on both Lides of the river They are overlaid by drift - & dep North Eachward Next appear beauty Carthy Conflowered apparently gete Same farm otion about I wills from Quesnele Compact freunsh clay like that already discribed is living ht in contact with Conflowerates by a flinet. The Conflowerates being to the worth, o'so hard as to John a vertical clip the waters edge without Falus. al- Ceart 30 feet of the Conflowerates feen They are false hedded, but not very loughly So, Atte Component-perbles are Small. 5 wells pour Lucruele pale greenish & brownish beds appear dep M.W. oi-low augles. 43/4 ru. from Lucruelle. Sumlar beds with Conflowerate, dep. E.S. E. 100 to 120 Trest- a fruite Synchrid of greyth & pale yellowing Sands & clays with then Carbonacions hands. ales about East o West. about 1 mile below Justille a tock appears in the Centre gete river. It is dark coloured, hard, hundi jobuled, & probably trafspean. The river bank is ten very high on the E. Side componer of drift- yete ordinary Character but - Stowing here a then large lumps of light. Bar at hoon 28.20 Jup. qualing Freyer 640

Sistribuliary lig - formation

If the Volcamic & light bearing rolls conformable & belong & Same Series, keens lette doubt tot to to rolley from Joda Cr. to Densmel, also that lights are found in the Jeins throughout. If any difference yoge between vilcanie & light bearing they want then be here folded topether. The strips yet rocks is fleverally to answerse to the river.

Lywe formed the France , examining the Lections in formed the blank . afternoon examining the boank opposite the bourn & pincling a plant & insert bed . Spent the remainder of the externoon & weight of the externoon & weight de dark working at it.

Sections appear in the bank for about a ruile obove here, a almost everyafer show more as less liquite. The beds appear to dip in Sowe plans pretty stuply, but it is not clear vor much yether way be due to slips. The bank fiving test section shows about 25 feet 7 beds, warly or quiet forigontal. Beds chappe of gregish sends Clay, but with wore or less liquilitationy fout. The liquite forms two or three porety persistent youes which rainy but slifte in thickness, but indude more as less stale & Carbonaceous clay throughout

In one place weasered 5 feet plijute evoderately pure, but with Lowe Itale partings The whole bank former contains Stattered flettened warses office which here widet bem individual thes dripted to their present positions. Here are also in some places layers quodular ironstone & progressons Landstones Torswell tectuess. The In definite character Totte Lection readers of worth white while lay of wall deeps is abundant in ite liquely & Carbonacions Clays. The beds cumedially apposite the town are Sowewhat different in character pour time Nove discribed being ware curpowy hedded, & Muer watered. Found forsel leaves in out layer which exceedingly pine, offors allowations I greenish & Whish Waterial

out Rayer which Exceedingly pine of Stores allowaters I freewish & Which watered about Who inch in diameter. In Cooking for leaves found the way ya diplerous wised in position, o wouth resembling that ya common towing fly, but Swaller. This rewarkably the layer overlies a thin carbonacions day or impure liquite, about I inch. Yarious Sud-like todies as well as leaves, & among them on putty cormon which charter usuallis the winger seed of a birch.

Day very warm.

Aug. 21. Saturdas Correa the Zuerul River to examine Sections there. Returned about 1 Ru. ttle bank, 8 yter Calling about Jely an four altracted the ferry wans altertion & for tack . Devoted the glemoon as coming of Collecting wrects & plants in bids appoint the tolely of fol finte a number of progreeting specimens. Zurut-flott Visled the red bluff about halp a wile below the Quesuel worth on the S! bank gite Frager. It stands over 100 feet an height acrove ite water, & is coloured bright red o gellowish red, from top those. It has been allered by the Combustion glignite, 8 the heds where a portion yetem dudain unchanged Seem t He hould ap which like the Section described yesterday . Leguts & Carbonacions days being weter coloted throughout, without wer allain, gust thockwers of pure liguite. The clipphas feen underweised by the Itham & fas jollen from time & time pring words gbroken quaterial & with which concellate base. Law tola that Swolle wer cen usany hear the water level about ten years age, but a large fall taking place covered the bank up So deeply as to put it out. The days light Hearing rocks have cloud up as a little till as wound, at this place, at the time of deposition gite drift, of the Combishion Jeems & Have taken place from wither outwards, for pour the centre toward

the Sides as there is an edge of Sheta anchanged intervery between the drift -x the taked rocks. The combistion has brokets If been stayed by the west state furface Koughe thus unchanged baked. The Strata now present all the Varieties of altered rock described in my report of the Legule formation on Boundary Line. Large croustone bells, in Some Cases wore than three ful in dianteter occur in one hart The Section, their Centres ofpear t Love Hem radiall Crystalline Carbonate & brow but are now Changed into otede by the Leat; & where cepined are breaking up into long splewlers which for out a kinging Sound When Struck, & look when lying Core! like techs mails. acuter occurs very abundantly in the unaltered parts yete Section. Toolled very Carefully for firsil plants, but almost unsuccessfull. has impressions but all abscure or like to roots or brandes, I could not pud any leap teds. The State Tite wateral Sughlarly pavoroth for the collection & plants of one a good

lololy-loud be found. He would appear that west of the clays have been root clays as the Cyludrical or Kattered Expressions in a large proportion of Cases Enas Um ware of less across the planes of thatification. Hey way of course have been drift-branches but the oppearance ware that of rook, wade a Swall collection of the locks arising from Combustion. The fiels above discribed appear the (see Section When passing in Strames.) Next traumed a Section in the I hank gete Luesuel Just above the ferry, Hence Here a bank exactly rependling that described gesterday & Shows about three persistent liquite gones, but followed warres throughout, & perhaps 1/8 gete cutire hank compared oflywete. This beaut is tein rapidal, wasted away, as is the whole yethe South Side yethe Tuested at this place. The wanth Side at the Same time gradually advancing, othe wouth ythe wir this fradually passing further south: The cured's obtained lodg include probably 2 diplina ou und like a fust or worguto. I Coleoptera. I perhaps ou or two other forms in a paymenting Itala Day warm but pleasant, Somewhat overcast.

The Jewral resemblance between this liguete bearing formation & the Liguite Festiary of the places is ver striking, though it way of course Conditions gelepart, of life absence of metamasphism. It resemblance holds Even to the colors gete beds, including the rewarkable freewish but elsewhere wentoned. The only real difference is in the fact that the lightes are wuch wan clearly garywalinal, than those of the places. Iven thre which are there alunt certains that Character. also to occurrence of Baith emplowerates, which likewise depends on wor disturbed waters of deposition. The Jossel plants to far as I can recollect do not correspond blosel. but it went tes Unemfered that there was much low in Contiguous localities; o that these porus this place are pour a Single their layer.

or Turnel

Dreft. The pebbles of boulders in the drift & facts ytte France & guesnelle are of ratter runsed aspect, but storm a flat many which Wacht resembles those ythe Quarty the druft of the planis, The include bowever wore queuns of flackish slatz or compact rocks. also fragments of conformerates appearently superations or epidotic of also many varieties of Volcanic rocks, amy edalvist, cloritis, perphyries of

any 22. Secular. Mariny made a slight-chammation ythe rughtourboard of the cured bed I wearing the Siction youhd it is a part. Started about 3 Rin. in Steering t return & Soda Creek. Ver Glassey has fol-The a second indian who fors down with us, & is brother to the one already enjoyed. Iran expected not having Come in cannot get another horse. Tound horses ox trops ready on the beack of Soda Crusto, got all on board the Stecume & crossed tem of the bost bank. Lyt the two indicers in charge, promusing to return with Runs larly on lunday horning. Paix bother bill & did other little Watters of hisiness. Her Dunlevy I borond we Samples of Quarty Said the aurproves a argent from from a Arcin hear Carilor. Left the Tamples with In D. Chepreter wed section gete total) intending to get them on return fourney Lection including Luned- fed at Levesuel. (The bank at this place is traversed by two faults. The lower- heds have are furthest up the run - North - The we would rection begins at the lowest seen, weaveres thence to the top of the bank, then croses to fault & takes the rest bed in ascending arder, disrigarding the know it which have diagram storvingthe structure, The Section not and stown the association of the wised-led, but- Serves as an Clample I the numerous Small faneto with which this primation

is traversed.).

greyth clay 4-0 * Gellowish Clay Coarse gravel & Said (Kirtz crzyolar Cayer) Suz

Coarse frey Sand with occasional plattered
wasses alignet wear the top 6 in to 1 ft
frey Sandy Clay with pettles
1 - 6
Coarse Edbrush frey Sandy Clay
4 - 6 Fault. Downthrow & J. of 3 ft & in Measured at right augles to Fed. 9 Gellowsh frez Sandz clay full of fout the forms of fretz destinetty bedded but in thick layers and Carb. Clay ar impare light.
Plant & insect-bed, very fruite la commated frie 13-0 0-2 0 -8= cheyaha fremsh grez clay $0 - \frac{2}{2}$ Gillowish Clay Grey clay-districtly Fedded . Ferry Sandstone, modular & irregular about 1-0 Fault-reversed with a doronthrow of about 6 ft. t the South. Rather than fedded five grez Sounds Clays 11-9 grey Sound Sands & Srandy clays Whitish, regularly 20-0 bedded Dip ytte beas 2850 2 22° The bank hing Somewhat obligue the direction of dip.

Deopar Jete Section 1 Swall hand a for some such to see of second from the second of the sec 151 Top gla x hat & Lunding water The restrict scale such exoquated but the deposite fault about as the appear in the bank. ling 23 Brieffort at of am & the Conseath draga in a Caroe un flesser accompanying as. for torres packed a saddled a start wode about & au. Hod one forme fact geteloray up the steep Sloper trail which Zig zags the top gete high herch was one gite borses wired to footing & went tolling & crashing Hund the back away Sopling Springs. Found the animal forces, of the all not sunch hurt, though when brought to the top of the bank & load readquated not allet stand under its park, one by buy lame. While this trouble in progress reavy rain Curie on I were soon we arty wit through. builder to food to one of the riding animals of let the leave part ja day's journey. Got away puelly at 8 am. + wolked on through the win till about - 3:30. Wester suproved considerably in the optimon & before naching

Meldrums flat - about 20 miles from Soda Crafe - we were meanly dry again, though very tired & hungry. got Camp arranged fire going, a some suppler coolcid & return carl. Her huldrum paid as a visit a got from him some useful importation about the trail. He has a fine ranch & many Cottle in excellent Condition, but complains lets all the farmers here ythe low prices produce now brings & the high wages. The hail passed over today pretty tough in placed, & vory few places which border the Frages R & is obliged to descure the steep boules of transverse fallies, & at times & pass form one head of the next. The water drains away rapially through the porous dryp waterial, Coursing at the Season y lettle rainfall the Scariety growth mentioned.

duy 24. Start- away from Camp at- Weldrums Flat-635 Aun. I travel all day along the higher beaches ofte. Frazer, the Scorpace groted is fewerall, more or less Beling little from to irregularity of farmation, or Subsequent demodation. A find paid little country both relts of truster alternating wint large open fatches of prairie, covered with lowerint-grass the trus farming the woods, which are rolter open, are Chiefly abies Donglasi (not attaining a great-high) I Proving in thick clumps. Populus tremuloides, Yarions bullows, roses, I Sheptraia Canadensis form the undergrowth. Solidayoes & asters of sward Species abound, Castilya (purbally the Jame sp. as that Jot wear waterlow Lake, but representing any the red Variety) occurs . also spirea belatifolia, vou mander post- florivering, flute and acuta, or a species very lite it. hu the weadows in addition appear foranium demonti a while Henchera, in some places ferm trifolium, 42 ! Camped on Riskies Creek, at the upper led This farm, masking during the laller part ythe forever a rapid discut-from the bench. dutioniumed her Riskie, was is at present also got him throwing the close a Sample yhis wheat for the Whitelen Should it prove supplicably food. He approtein al altitude This farm is 2400 feet. He says though other places in the rightourhood troubled occasionally with frest, Not he has more supposed at all in that way, Historys are actived by the Rep of wrigation, water being capped of at some distance up the Creek & lead away in distributing detches. There lover henches of Vallies seem driez chan the high level plation for in coming down to them artimises , a frigida? La Canadensis) u crease un abundand. Tuosyris appears, also bere a then a Stunted Caches

Aug 25. Left-Camp 6:20 Am. & travelled on tell
1:50 Ru. When arrived at place described by
Mr Riskie as ramping hourd, & where also many
poles but for tents & other Ligns of former occupation.
The country passed over is chiefy open & other nature
of prairie land clothed unto pur gass (bunch grass)
Sour Several large Lends of lattle in the morning,
Omining about almost wild. all this plateau
region, both that persed over from Soda Cr. & Allis

Parkus, a that of today; Splenewa Grazing & stock raising Country, though probably two high for Successful Culture grunt Crops. The resemblance yethe rolling Surface of the pleteau to the country yethe Foot hills on Sol- 490 remarkable, & extends also the flora, which as already rewarded almost the Same. Seems to be about the Same Stage at Same time ofyear, &it would appear that the foot hell country must enjoy a climate not dissumilar. The France of Chilacotin, a wojnificent rim appears Corns the buch or pletion in the forefround, I at a guel clipit below, the volley yet Chilacotin; across it a continuation gite Jame platian, rising slightly from the river a party prairie, party wooded land. Then a bounding range of hills with sente slopes, o wooded to the Surveyle of the lower party yeterse the gerried & Swow - clad peeks of the distant Cascades to the South west, flettering in the Jan. Where wring Camp made within about a hundred rin ytte valle at tothe signs formed of beselt, of Scoredowns trops, with Jove horizontal lines, I in many places largely Columnar. The clips Show in some places worn probably them 200 feet by there rocks, & are Octravely ruinous, of Show widince ytte Jean's fall of great morres to add the tills below The small steam by which we are comped folls suddenly over the edge of passes down into he great-complittedrical tollowing the edge of the valley Lutte rolly of Riskins Co, Several terrace livels

#

Levale levels.

very distance, & besides those with broad toud the slip grass covered brank sloping down pour the liver of the highest beach on the S. side of the brook, Stows is to fortunable conditions of light, at least of (light) peoplet browngoutal warks, or swall ridges. There would some certainly to wark disprech stopes in clavation & to show that it was not Sudden, as to breeking yea barrier. also that in favourable circumstances may depend to find ber this at alward any elevation.

aug 26. Started 6:40 all. Passed for Some lime through openly wooded Country brut P. Contota, of a Torglesi. Trail numy along top got Bank of Chilacotin. Then wede descent int Volley of travelled the rest gete way along bown tendes Sometimes lightly wooded, sometimes prairie like. The Vally bottom particles y character of the greskies Creek, Tobors the Same plants.

Corrused in Camp 2 Rue brote out botes, Collected a few plants of 2.

In descender int the Volley possed over Curious report growth - Strewn hereworks hounds which at the trop place projects from the world here & Particle wor aim would, or at least remarkely like them.

Clay 27. Morning Cold, & a Sharp part in the right.

Seave Camp 640 am. & offir travelley some rinles pring
the germine alvis' Cruk, & that we had camped
Short yete proper place. Orse several indian garden
with potatoes, carret, & turnings the former now all
Killed down with the front. Stop for hunch at a

Place Where rewarkable section of volcame huceas (See noto) Camp wear a Caryo hand a condians. They are alexis, or his wiew, of any try are who forms down to the Trayon t work. On alexis' Cruck there are a much a ploy shoutens creeted, which belong to them, bey has I hele dounder of such woon, wow rain setting stratify in. Had a word yete inchaus round the Camp title & during supper. They had caryot today the first solwan yete Jeeson which they hunted to us fower them some whomas & hork. Ofthe supper purental them with the remainder of the groune story of a cop yeter of round of: Being food Cortoties of this Inday they would not touch the grouse, but tooks it away to keep the the warring, when it will bottom this transfer calin. They carying land in the rally bottom this money, wow toward warring and in the rally bottom this money, wow

Thorwing very cout, & fees few raining steading all night.

Showed signs of supersonal about 9 has a Beranda rising decided to Move on a short days pruney the Crossing of the Chilacotan R. for packed up & My et 10.30 & for + Camping place on 8. bende of R at 3 Rm. The indians having round the camp from daybreake the lose left camp, a prying into everything. Bright us another small Solumon, I a trout, for both operate the received exchange.

Valley yethe Chilacotan when seem today pretty wide but the 1st town land swampy a mead of hing a passing prairie as usual, arrend into willows a other bushes.

The cheam shelp is not large & at the ford Scarae Corner up to the ship, water dark whomed but that dark

Comper in a five weadow with pers 3 put high in places, a abudance gretches in the Islows.

any 29. Start 7. 20 Com. & travel on the 2.25- Ru The trail following the N. bank of the Chelanco, which is struck by the trail unedals often leaving the curring ofte Chilcotin. For about 43 miles the character ytte I Valley is pubedaing, the trail possing for the work parlover flats of fravel & Sand Covered with a more or less deuse growth of Puis Contacta the Grend beneath the trees being often hearly have, a covered with karberry of The latter pail of the way the volly is wore open & hes somewhat returne garsy bottoms. The pars forwar not very thick. (auped at spot-after trail curses the Chelanco & p Sev Estward. Spot disjusted as depot-Camp, Salvo as Junings lamp so 1. Iwo will buill-brooden stewties, now directed, work the site gets digit Corned two pretty lette Cakes by the way today. The Chilanco R. al-put a large Surft- flowing brook with Statu Statches ysurft-water between . Wary duds Hetched the volum booking of the Stream. Pressed a flur

Dry so. Stady & Leavy rain during the hight hat warred about daylight. Morning Colon & over last - Light lamp 8.5 ann. & trouble on trough think brooks & brush

Reaching the N.E. and of Soft Loke Day wel- Since woon a state racing. Sown were ducks in pools this woon, our flash y geese of a sprice partiridge, the other Stot. Loon Lake a putty latte sheet of clear water, a true to its varie inhabited by books. Softe Loke a price body sporter. Clear a three, west wount amounts heards, a long to a fewer food a house true on arriving of Camp. alle very treed of heavy a fled to get country of lat a term in Grand a discovered the located line of the woods of Chairing wasted by ports. Seems am a to great fact to the fact to be fact to be fact to be the woods of the initial wanted by ports. Seems am a to be fact fact to be taken a Rachway through this wild berealty.

Clasing about dawn. Morning the right, but Clasing about dawn. Morning Calm & overcast with peat Swatters of mint rolling up on the mountains. Left Carup 8.8 a.m. & travelled on through woods & brush loaded with moisture which more witting low than rain as shelten off. Crossed the outlet gethe Celce 11.40 am. Passed White water S. a camped at S. S. and of Codin S, Where site grudian village wanted on may. Really only a camp, I mount about downed. A menty made indian grave on the cast you little knoth loss piled in speare form on the frond & a poke standing up with am da him from Special your a bearing as with an da him from Special your a bearing as with an da him from Special your

in the bushes Several fish trops which had been used in
the Cake. Unade of long round wooden writes a roods meeth
Swoothed down a bound topeter. Cylindrical, with a conical
cutrance at onthe end you to foshion you rat traps.
The writing of much the Jank character. Seil gravely or dandy.
Lunber a borphose of Contotte, with aspen of hit more
theckly a composaly true clad them before.
Seem a humany bad today works to the exactly what spenis,
but no doubt Trocheles Combris and
Eleapures argenter growing abundants man the Camp trujk.
Rammalus approblems occurs whereous a suspicion of solving
wotter in the Soil all through this country, a the
Critislana to common.

For writing copy of the baselic region probably his wear the function of the Chilestin a Children on a few with Early that place, in gory westward porn if toward the Cas cooks, to Character of the country obligides Charges, a united of the uniform plotian, have rounded or impolar hills.

Howather Watersheam

He wolisted between the Frayer & Horvotteo lis between Eagle & Cochin Lokes, & is not a flature young suportance bring casil crossed. Remarkable that Swall steam like the boweless Stoveld lise & of the Cascades & flow through them, though you conset to Four they on a greater I cale with the Fray or

Polled affermate

The world appearance yound ythe horaing walter referred tim woles, Cannot be accorded for on the Supposition of water action Subsequent to formation yourseds as the Sufficient to wear three hard socks it must have been more than sufficient to obliterate the surraines. It would therefore appear possible or probable that the glaciers blooghed their way through previously rounded medical, which they beeped up, with Jone Jan anjular Character, amediately derived from the diffs overlooking term. Itterraces continued would been their posseble that the terraces yethe vollies are of
to mirrorises? origin auticularly to this flaciotion while the placiotion showed
to mirrorises? origin auticularly to this flaciotion while the placiotion showed
to mirrorises? origin auticularly to the flaciotion of pavels
when apparently belong to the terraces, way he grad-cartin
date?

The Chilcotin rolley including the basalta platan overlooking it, I all the better parts gets mightoning would thought in way places exallents adapted for granging a Cottle raising Country. For the wort part it is too high for wheat raising a lover the port above in indian fardens East y alike sails were observed to frust Killed. Some spots was glowne to formy where fas at-Riskins) wheat of all other Crops Can be grown

Sept 1. 1875. Left- Camps 6 am a troubled on to Carechies Camp 17. arriving at the Blaze 4.30 Rm. ytu a very long a foliquing day. Found am indian Camp on the Irail was the N. and y Tollyow I. but the men all away. He women Came out, but as they Corla speak but lette Chinools, Could not learn and from them, beyond the fact that the Camp ywhite men was Si-gab or far away. One hedrons ald beg among them, is all uply enough. The trail very bad along the S. i de ythe lafe oscending a descending Comtanty, I crossing deep a remady sorms a brook Manuals.

preparation sides the clely worded. A Sorphise more
preparation of the lake seems to occupy hearly all the fletbottom yete volley & is long & river-like; but leaves a sloping
bank on the E. Side along which a food line way he rim po
to Ry. Years yete lake, & Swarr-close wountains lovering
obove it wapingocent. Ded not actually go down to Cawhis
lawps, priday Bouty by Comped on the branch trail aboutbully way, & learning that the discort state about book put & the
road very bad, decided to remain for the right of but the arims als
come ups, the packs now being a long way believed. Hearty supper, talk,
& turn in.

A large flewer with wor aims lines running down it - his whe
in wountains at Shr and plake

Sept- 2. Came down the hile to Mr Cambris Cary carly butfound him abready form out on the line. Selected place for
Camp hear his of fot the things parked down, a Camp arranged.
Wrote up notio. Changed paper of plants in press, a
in the optimion woulded worthward a start distance on
the location line, which runs fort past the text down.
Saw no rock in place. Solve run Co party in the
lowing, a tolled watters over with him.

Sept 3. Bredyortet wet lamby 5.30 Cum. of Started at 7 to ride back to the fossil creeks, about 32 miles from love write the purpose gascending it of felling a section. Fork both the in the ans along, one to take carry she cincum &s. for back & Caring at 2 Rev. ofte a fatiguing Scramble, most yeterway wading

in the water gete brook or Churching over or between taughed measures gloss in its bed. altawied a point-about 1000 feet obout the trail, & bough wealth to weaker the Section, forward a food idea gets found Character & collected Some intensiting fossils the. The ment-aboundant-form appears to be an clopy's a in while case the formation is probably Cretacions, or at-least menogois. It alwart undoubtedly represents belowing to do the large ment of the grands of the things of the probably bloo the Coal tearing solds of Vancouver 21th.

(This on the Supposition gets Cretacions of hing form out)

Sept-4. Cambie ruring Camp about 3 miles S. wentwend alongthe lake stone to keep apoint his work decided to go with him to Same place. Horses had strayed for a before they had been brought int Camp, padded, x the new place reached, usually 2 Ren. afternoon worked bealt to the Slacies stream of up it to Some rock exposures, which examined. Day Stowery.

Sept- 5. (Sunday) hiorny opened with Leavy rain which continued title about woors. affirmore cleaning but raw & cold. Every pin . lorote letters & fo in the Lorda Cr. by mail Carrier Cornorrow. Read or: hun C. lead prayers shorts you dark & Such ytte wen as chose the attend.

Sept-6. Started at 7 am. a rode down by the travel of the Shad ytte Cake, Clammy the rodes o'- at see where her Hanty ky might be a when I might

Tourd him across the student of the foot-ythe lake. Having crossed his stop on a rope or the basis & a follow bar on which they scaral rund town at one of all. Time gritain y borns appears uncertain & Mrs. H. in a particular hours, has Camby Kindle offers that he have the only spears horse he has, his own riding one, to make up my complement. Decide to accept the year a start tomorrow morning, though that one have short. Hund I cannot no much more here without plenty lime & ankions to father worthward while season basts.

Sept 7. Waiting for the new home to be brought in a did not get you tile 8.30. Iravelled on till 5 Run a then only reached a small Stream was four mouth gets end yets late. Frail very chypinely a devious.

Day under deal of therest ming From clouds expects on the mountains a furt at sunsel- a heautiful hurst of cruinson light on the survey mountain top gets sount end of the lake.

To burning oppoles from abundantly in one place on the trail board over today. Bunch grans comes to the Mr. and yets lake.

(Journey So for hade on former to acte)

Sept-8. Seft Cacop & acr. riding obead yeth packs to examine rock exposures. Overcast & Showery. Mack on the blataire to Peter Coching. then round the worth and yet to by another trail renshward to Peterson L. Had sowe deficult, in finding the hying yete vew trail, & obliged to wake a long day with weeking water for company title arrival at old Depotation S. Camp 4 Rm. Heavy face yearing about 3. So welting wengthing. Heavy face yearing solder on arriving of Camp breaking awangother things in the Send der baps they on the termonitor.

Sept-q Left- Comp 7 am a travelled on till 1 Rm. Compring Carly on the N Stone of Talta L. to letthe Forses have a rest. Some of them weak & backs very sore. Wrote up notes of. Observed Cactus porony & paringly at What Totta S.

Jule S. pur Kin

How thank

Fotta L. lies opposite the Serpe in the rute through which the W. branch yete Hornather now flows S westward, & evidently a part yete Same valley. Peterson & lies in the Same bollow & is probably only separated from Letter by moraine matter. Swident that last flow yere from the Caseads Sestman, & no doubt walnush also, though it may be a further whether also the proved from the Central trough the presses yeth Cescades. One ice stram must have come from the W. Homathia bottom & planed must inthe direction of Latter So. Another from the Z. Hornathia. Must a the ralley including Cothin, Whitewater, & Super Lakes. Probably muting.

With the Latta L. Steram wear Loon L. in wit before Love you this ice way have passed orn int the Chaile quoite Lake volley, but I do not truck there is any low sops

Sept-10. Sept-Camp 7.15 & thorelled an olary N. Share

Jotte S. May praise chediers. Strade 3on its wing

but-owing t light-charges, got-one on f. Lost-about an

hour working for trail, having unised it & Sopposing

that I bould cross the Jatta at. Creek former them turned

out-correct. for the right-trail of lest, & came back to

primer lamp at-Curring gete Chilanco.

Helched Jatta L. & Cosceeder while packs arranging in the

working.

a mapurpicul-den. alevent chiralis, & warm.

Jole hanner

Fatte S. holler ractar Jeens to become marrown or Nevre obsorpt-lastward as though the Sheam pring it had fund the toest. Some traces y moraine water near the lestern and, but proposents water works.

The ludicus gall this histrict- Siem there then died to the place over the spect a pile of sop, but a covering of harle of:

Chom the whole a pole set up west some rap, in home cans a ten pean or hat, a in true untance a hunstal-observed. There such frames along roside Felta S.

Observed in Some pleas home by bothers in the formed, full Superluces, a opportunity the trans grandupound winter bosses of the tuchians.

Sept 11. Start - Tau & travel on the 1 Ru. Couping rear the lower land of Puntine S. When the trail leaves it for Christiant S. afternoon pshing. The lette pull of Swall fish which opping the space of white-pish. They are about + Spann & we helew springing pour the Jurque y to water in old directions. Cause the morn on a swell caup grindrans were the Ceke Shore. Polerjamilias Clea lighted in a head, & retter short shirt.

Some yole bases ver sore, & Lorung laid up unt a love by future to remain ben all day towarrow to me of recruit.

Shot 2 deads & a praise here les route.

Sept 12 Sunday ded not Shift Camp. Rode back to exercise Took experious about 2 n. S.E. on the trail. Wade sheld glake, prinched on y Zally ora Z, yecha bowe repairs. Collected year shells to bley pure a very botion the Jun

Sept-13. From Pountrie S. Camp about Do m. in a

Court H. 30 Several Neasters derection. Did not intend t

Georgouth 20 let on a wornt y tommy being unable t assist

in the packing: but found no water for a longway.

Shot 5 Sprince partridges today & Coula have I ad wine

ythought any use. After Italy the first two an

under attracted by the reports appeared, wrote his

old flint look in his hand. An old man a rotter

bear, probably out looking for as deer. Itallowed us

ducing itself in fields of grain and amount

Sover hubs to Chinical of Crossing, where found his Carups a Several Squaws a children. They are how Catching great humbers whitepoh. Whe three Jeen in Scoutre of a are conjugat dryay them his the Jean. Fish String in long luns on polis a Smooth Kept- up tolow, probably to primit the flus settley on them. A little boy from the Carup pollowed is tour Carup about 12 m. glass new Jorne Suppler, a he evidently inlends to Stay all right, larry factor picketa out his forse. The poplars, willows, dwarf brides, a other andreshrubsa herbs are now Repiede Champey Coloris.

would be inclined to represent the relations gette covered a wound Scendy of Clayey clepeseds, Charged with boulders of pebblis, to the feribes, wench as below. Seems that these upland deposits, whether forwed & flaciers or flooting ice, Stand in place of the boulder clay fother reports



Sept-14 Seland in Itartung as juturday, but wode a moderately food days fruray. Travelly from 7:50 6-340 birt the loss gabout-1/2 lours. The country ludulating a mokely with force very frue displays of moraine wounds. Puns Contata towers, with feet areas grain afold a world. Camped at Camp 13 of C.P. P.S. left by them any 8- Fins spring guld water.

whent a marie

Esi dence grovarines con today appears conclusion that country partially Entrueyed at time y deposit, & rusing gradually about water as ice receded. Suspected Suiveltonems without y iced water already in stanily of

Sople & Totta dakes. The winaines seen today stown some well rounded stones, unto want want note much would, or menty anywhan, but observed none glaciotad. The semicircular redges are evidently official work, but are flet topped blackerraces, but object pour terreas & heigh seperated pour or ou aunter? deep narrow tolleys, now often scupied & lotes or swamps, a flat bottorwed. The top yete lote forwed woraine wounds are also lower than the sarling a loss sobsequently wodified. Lee a worth doop anato way thus.



Those hur aires widence great extension yice porus Cas cades, & protos belong to the same serve as this yete love parts y Tette Egh Som I volley.

moraiais

Have now litt dout, that besin of Prutywo L. also priverly occupied & torque of flacin according over via the Children volter. abrup wounds 30 or 48 feet high our the stone yete Cours and, which can scarage have had other origin. (See that the for part gone of there)

Sept 15. Horses friding poor feed stoned tendency to Strangaray, a regioned attention several times in the right. mony two gone, & only recovered some miles badd on the trail after comisderable deletion. Ded not get away Sur today, though pertiled my lt.

till 8.20 & their surprisemently took a currory trail, following wearly parallel with the location line & prolly disoppearing. Sort wearly two hours hewiter for trail & by the rolling down a break your yette pack are words. I have folls laws I feminise, where a pretty letter cascade coming down over sep like ledges yourself. N.E. y Camp 15 (C.P.R.S.) on the opposite bank yete river a from coscode. The way as Repioly increasing in Singe. Camp orly about 13 railes though 8 h 40 m altogether on the wood I trail very bad a rocky pust type coming to Camp Reeves fell saddle a sell from the borse sorry op a steep hell, x had a warrow

Escape, though Setting of authort- by Saddle-hags bowers Kicked away four their feelings in the Struggle · Camped Sorvewhere near Jenny's Creep 15, Vez warm in the

Sept-16. Start 7. 30 & biard on down the valley. Frail and hunch huproved, valley towards opened out with swell weedows, a prouds. Day very warm of cloudless. Camped man picket 5788 a blust-opposite overy prominent bloppe. Passed a Camp of hudian women who said them husbands had ale form beover. husting a lept than no lands - a - mude. May duth a start winter him protected that lawred. That lekes in the roller him protected that lawred. I found a payment of him like he reduce.

Heard stots this evening a also sound golistant dopping. Then no doubt how ceed from him furning Camp when must he man.

Sept 17. Found liver at work on the Cine soon ofter leaving Camp, & his funning Camp about - 4 miles on Camped. It amined rods in helsely near Camp. Reading, buting up rots of Fund no anail here for me. It is probable at Bladamater. The Cleston Renter to valle of the Jorner is alward as large as the latter, but the valley uses much more raping as jollowed upward.

Sept 18. Started rout one your Jennings' indians named Charler & walked down tothe Clistaco & then Several rules up the ralley & See rock Olposures there. No trail up the Cholaco, a so Consequently a Scramble through woods all to way. afternoon made search for possels in rottes behind Camp. Collected 3 species of Jumper. Challe told as a story in holden Chinool of Ktins crany about the Cliff on the Chelacolan R martined in notes play 27. Says long ago thru questions of Cost, I back Finashes from the Self-Church Came there I camped on top ytte luft. Thence they wied to watch the Chilacolan Indians arrows I no one them you it was done. Ot lest a Chilautan Siwash parsing saw or for on the bluff, I went a the the others, who sent a man up who while the had indians were as leef found out - how many there were. Then the other unders surrounded the bluffs I while they sent a clothdeman to

work along in the valley below, thus altrading the oblivering of the Waranders, Came of tehind them I wood a sudden onslangth, Killing their all, cleept one indian Supposed to the ludding Man who flow away in the can from the layer yets flogy " all same wind klathawa all same thicken." This at least is what the oleman wa-wa.

Sept-19. Sunday about Camp at writing odd fots xs

Sept 20. Moreny walked up the river about two weles to Collect hereos of white dryf light in the river hed. Herwoon code about forer certis hade, to clipp beyond lenderella but. I see y light formation cappying the cliffs formed only weathered baselt.

Sept-21. Mora Camp with lux Jumings party about Six unles down the river. Walked down unt from Aserving 20 c/s of day warm. Int Shonylound from S. Thru gete horses stree very sore, or two week also forwie still iel & able to do next to watery. Heraly in Condition to rever on, trough ful that wearing time to they here hand longor.

Sept 22. Rode out- with his his Kay at 8.50 & returned at 4.30
The harry wade a recreament down Form 7/2 rules down the
humalle trail, a ridden allogether about 24 miles. Day showing,
yter a night-yharry rain. The valley from below the Clishedes R.
opens out tousiderably a shows a good deal yourdow
land at a somewhat higher level obove the wire, a which is
probably not year flooded

Sept 23. Walked down the but side yete volley examine some rock exposures, but print worting of particular interest

Sept 24. Started from Carop about 7.15 a rode

Nathward with Non furnings to the Lynny ofte

ticil to Clustus Lake. There Separated a

yent on on the Clustus trail writ frimmy.

Till 1.40. Then hurned a for back to Camp about

your having got out on the Clustus trail between

I a & miles. The trail from Quesnille to the

South and of the long lake, thence up the Vagro

To a round the IV and gote lake a from thre

Wintward to Clustus &; is the main trail a hes

cridently been considerably used. Silte or no trail

Clust It of fine from the Norge toward the Bladewaters.

Killed fine fromse by the long.

Sept 25. New Camps all day. Irua washing gravel griver for gold, tat control success. Tend fishing about here.

Lower lere.

Lower Stell find wells , a the time pade arminals my. Fore. The plans of timed in packing have for the most part postered a are more discharging matter. The brown horse especially very week.

The packs a track mail more since some days expected from Dusnelle have not yet turned up, a till they do my funnings can lardly spare a man a books animals to take my.

stop through to Blackwater. Delay very provoking as now nothing runch remains to do fere. The foliaficionoro pust about to stage at which it was last october during my trip through Twite Put., Stowing the carlier ouset spiriter here.

Sept 26. Seenday. Morning Engaged colloting the Chilacoten rocabolaries obtained to Mir funnings a Muyelf from the Indian Charlie Counciderable chipschelly in getting the right answers from him when here, & great trouble in Spelling some of the obtained from their massel of futteral sound.

Afternoon clainted the billide to the bout a followed up the bank of a small Creek rownstward; then discended into the rolley bottom a followers the brook back to the river. Found a curious rocky forge wint. Much Colcaleous deposit, as a wolfield of about 30 feet in hight. Many deer track though wently yourse age.

Dept 27. Collected Specimens of P. Contorta, & an abics

all packed up t which Seems the very breat the ordinar black species

reals trust things but agrees clade with the discription of a Toplemanni

the frame product with a is probably that species. It has have abundant from

tight has prompt about lagle take on the vorte trevelled & lere, but also

make but withing to occurs further rest. It forms dure woods plays

with the triplet to occurs further rest. It forms dure woods plays

with the triplet to occurs further rest. It forms dure woods plays

which trees in with a claying belows yet plateau about here,

a also pringes streams a swamps.

Reviseled the revisited or review mentioned restirting. The Colcarions

such chips an honer conded aint openings, many 4

which are the avorded of Sticks a logs forwerly

Sevel accived, probable a species of warmot. The love dropped a feet fraut of state leaves of the te would y state leaves of the works y their lass. Delipie to one of the layest of there, a the Shroke Soon began to ooze out of hele in tarious parts ytte clift. Caryll a mornology llimbse your yete annols, but wont-probably escaped by this above.

The warcers smith, a the lenguage train from Deus welle arrived this Rin. for all arrangements woll for start towarrow run furning furnishing hours to take wet Blackwoth seport a sending out Some yhis ofpan stop at the Same time. Flower the three sick bosses, a two yete apparejoes, getting lecipt for them. by wait Jaia the ab Blackwater.

Sept. 28. Up larly lusting preparations post art, but-did not get away title about Noon.

fot letters from lur Stunt & Depit wan ab

Blackwater & t un Bell.

Part las now added one your ferrings partiers (Jot) & an in dian aide & guids brought from the Blackwater by hur Sunt, & Called Towny. Made about ten wates down the Nayeo & camped of the Cart from for a long distance. Tried fishing but unsuccessfull.

Sept 29. Start 7.30 an a travel on lower do the Blackwater Tearl poor of in Some plans medry a good deal of cotting out. nevel overturned & rured in felling up the river back at our of the fords, but no seriou consequences. Is avilled on title 3.4,0 Pla. When Camped about 2 rules E. gete wouth yete Mario on the ir. Side if the Blackwota R. Flashing very Successful lought-The Steam feing full of free tend & white-fiel. Comps, on the Blackwater line.

Sept- 30. Leave Camps 7.50 hand and Lurvey trail till Noon Earthand a northward wearly parallel the Blackwater. Their Bluberies there today for to avoil southward on braude trail to him Bello laup 20 in theful- time Blackwater Cavor. an in dian family Compet do the branch Le somalude to ail cleaner, better looking & apparents wore conjutable; than any Jetseen. Their writer houses are wear Cluscus I. speal the remeder ythe optimion Claminay the rocks yet Conor, a In the way died with him B. a party. for wep information & from him, also a pack horse & opposition which he does not ladwely The rocks gette Course probably represent the Lower Ceche Creek Series apper cours though no amestores are the te typical ones, appear, non are On flut slets ythat from well represented. The yours dy las parollel of the stratefiction runnels don Jun in the I. C.c. on the Weggen wad. We wides gette Course, write a few elaphons, are not such as to your Such went and t blesting a wide work. Tunt of the slates would he pretty case to bon a the Statured state gets wide would cause itto break int Swall pieus on lesting.

Oct. 1. Sept-Comp & am. a travelled on artent slopping
Tile about of Pan. reaching Poladewater Depot . Find the
Post train wow due for H- froze, & ant while him Simil
had arranged that I should travel not get on hand.
Appearance of break up in the wealter. Barowelle folling,
wind rising clouds collecting all day fress flying south.
Hind a large mail waiting here, though mo date lette
than any 20. por wentered. Nothing the hand from
mi belower.

Oct-2. Druggling ram a occasional showers ysleet all

day. Arcast, windy, a old. Scanned the run bounds

wante depot but did not for far on account gete

breather. Wail Carrier arrived from Duraulle, heaving

left the money & ridge strongh. No mail for run.

Pack train for It from had not light the money, is waiting

for foods & rung and leone for some days of come, which

is very provoleing. Pack train arrived how with valo.

Part yeth animals returning to burnelle of part formy on to

an Bull. Our Fisher (Bulls purryon) also arrived one

Oct. 3. Senday. Snow on the ground about 2 indes dup a stitle falling a libte lareting Long, reading

Oct- 4. Walfed down the rown about 3 wiles coming the rocks. of whom washing openl four back & land-han from below the wridge, but wallow princing colour in either . De cold & raw west snow state Uluaing on the Shady Sides Thills a in the woods when ited. The Caion below the wridge though vot- so Carp as the too found - very perhousque.

Oct-5- had arranged with his Sterrett in charge of Depot here to Start Park & ride up Bello Trail Obout 14 miles, thence follow Ludian trail to With. poladewater When under bonnes. Stay there all night & get Ludian to guide us back ag in up the rolley of the Blackwater. morning very threaturey overcast-x foggy did not start-till 10 am. Tode out to place where dirdian hal begus at an endran franzard, of there found brux Ludrans Campie, who told us that no Ludrans now atbuth of Blackwater. Dried t unduce one ofther to go as Suide but the Lad no horses & would not. Enjoyed a lad to come back with me to Camp, who knows the trail a Way also be useful in tending horses of now that the other men but of Started back at 2.15 x for in & lamp fust before daile, with heavy rain coming on. The Indians were nother Surprised the as come into their Camp. Enjoyed in Carry fish o'- o' hour considerable proutity growt white freh, & suckers strung up in pro are of drying. also several beavers lately Killed, the flish spread out That with the tail still obtailed & hung over stills mean the fire-Swoty brown, orly a repulsive Cooking. Camp consult of our very old man, very side, & as they I and "all same as tired all over " probably rheumatic. The day ? and a Chilly a the old fellow coiled up under a rabbet skim blanket beside a lette fire, hard took any notice yous. Hes long frez hair standing up in Shocks on his head. Half thought they had brought him here t he near the grave yard when he died. The lame man bisides, & a joing lad. Two young Helutchmen of 3 old of yours longued to black.

The zony women cridents though themselves very alterative of four-on airs accordingly. Arranged with the zong lad to Corne beak with as ofter a corniderable amond of your-wa had been for through among the Indians in their own language. It put-on his anoccessius, curapped a little old durty Rob-Roy Showl - which remise the fruit the thing love - round his shoulders of started off. Keeping up with the horses all the way back to the Depot. Forme of the women tolooid as is the Case in meanly every lot gibs drains trees. The Colour employed blue, a the divide assays adopted (in whole or in part) lely this



Oct-6. Racing heavely all right, & has continue over cast, poffy, a raining with slight intermission all day. Welked up the run about 12 m. ceaning in the rods.

Shot's prairie chickens.

Oct-9. Writing . Sheliday o's lifterion worked up the lives whent - 2, mile excurring the rocks, or got- who a wars of woundfall a brale very unpleasant - t brand churryh. The now hands have supposed they extension

alter about from land sleps, which in some ceres have celended from the top of the highest terror, or curint-yete plateam, to the water level.

The apressmen from Reace R. passed the Depot today a some undraws with two padis of furs from Stony Er

Camped here toright. Nothing I d- of the train celler too or from It- grove. Day from a weather apparents obout to improve.

Oct-8. Rode down the rolle about lear hules coret The Sterritt, following an Ludian trail which runs to the month of the Blackwaler. Trail in Some places run faint, but be coming felter besten sortward. The run valley becoming the cycle turbered, it leaves it about two runbs below the bridge of follows along the edge of the high land. Back thamps 5.20 macarogo train from H. Grage arrived today a fore out tomorrow morning for Quesnelle. Wrote M.

Oct 9. Monny ranous occapied. afternoon walked up the river about 2 'p m. + look on forsels in the lignist formation teds, went four Success Lomeres. Day time & grule lot, & no purt now for some oughts.

out letters & a west him the Cayolar Propels of an Ludian practice, turned back (Larry lyther Lere justices) by a letter from four Hersey telling Jim to go with me to Ft. froze, Freight for Parale at Quesnelle. Day fine I warm, Paday of forsels of a Cultury locating down as much as provide to current forms to custout.

Oct-11. Up early ; got all packed, provisions drawn from Depot 45 & started by 8.35. Have now besides Reeves, the medican paller Perfecto & one Indian. He two lest Sent beck by hur flarsey. Discharged the Ludian lad who has been workery round camp for the lest few days. Comped wear the Lerdian haverand biritle a nother large lake Colled of the Indians Vun-chaw. Lake full of fish which the Rudians are now catching in helo & drying for winters have, as well as a bank cause for setting then neto; but lout poor success. Fish Jumping all dout but any booked one which escapped. for Some ythe Ludians round the fire & empleted the Blackwater Vocabulars. This lake is covered with a green scum, I is said the oliverys so characterized. The noterial as for as I Can rewember exactly resembles the ophamisormum found as to Lake get woods. Colour pale dull green Hora Kasiabla The runnte threads are arranged singe but resembling cropped hay, or more frequently Shuttle shoped a grouped together to as to resemble a frain of oats lout the hasks ottached a party openil (See specimens) The Audians Call it- ta- tsa

and:

Some back on the brane toward Blackwater of did not fil- away till 11 am. Juanuing fine, but- Soon Clouded over with upper cutrent gair from the West. Several Showers fell. Cleaned about- 11. Clouded Gradually again. Heavy local shower with Some hail of 2 pm. Creaning parity Clouded many Calm. Comp at 4.10 mean a wice lettle brook, & got dired y a large fire

Oct 13. Start 8 Rm. a often travelling along the N. trail

the 9.30 turned 97 to ascend a prominent mountain

which the to aid passes to the East. Perfects acting as guide,

he having been on the top previously, for up resort a

way one horseback, a had a magnificult view of dee

the surrounding country. Got havings on many lakes

Mills &: Followed along the crust- gete ridge which

Muss rearchward from the mountain a proof for

back to the trail. Suprected to have about 7 miles to go to

camp, but the indian had mistaken the directions of

your 10 m. purities. Got to Comp about 4 Rm. Found

some Just and any further arrived from It. froze & learning from

them that a partly resembling Mr Selwyn's had arrived

2 undians Call the Mr. Is a whom.

Oct-14. Left- Camp 7.50 am. arrived at Sepot C. P.R.S. Stayer & Stewart at 12:45. New the trail or todays Journey two dead Indians, of whom the bours vow one Remain. They have my lettly been party burned, but have been dead some mouts. No one Brows how they died , the Ludians about him Sum not t coor who the are. The Depot is situated on the abrupt terrace edge gets Figher will, from which a discent is made to the for level flat, a tri angular area at the function of the two rivers. The upper luck is gravel a clayer, but the lower heems to be pur fertile soil, a stough Worth covered with Swell trees shows fine Meadows. The Fort a tumble down booking place the Hudson By Posto Severally, & surrounded of a number of shouter belonging t Indians, who are more nearly are about hunting at the various Small lakes & Creeks over the landez. They will not return Ver again title about Christmas & then disposing yother fors & Larry a Short whide start out again for the rest y the writer Hund Carapia bere me Me Libban a the remainder Mur Silwyn's partz. her S. Linself with Mer Webster Marry Started at born on monday down the Chilacook R trail with the lope granting men his Bell, having teen misuformed here as town morements. The waters gets Frager & Stewart- Mugh Zerr opposite
the fort, the former Luing turbed & whitch, the letter clear.
The opposite Laure gets Frager is high a steep, while a

tide stretch of Grovel bars & islands marks, the function of the rivers.

Oct-15. Howels expeding her belowgers Teliern, a as in case of his arrival he would probably with that it onice to Catch Sundays boot born Dueswelle; Ramot go far from Camp. Wentry up notes, reading via.

Oct. 16. Nearing about Creep. afternoon wallad form ruits up the Stewart R or (Nechoco) Store Ofter return to Caup about 5 Ru. Mr Selwyn & Mr Welster appeared having Some through to Alackwale Depost 17 the Chellaco Ra then hearing your whereabouts returned by her Bell's straight to al.

Oct 17. Sunday Reading of the own done the Fort of for an Sord many Colours of gold. Weather grashedly clouding up Since wormy & about dack nain commences to fall a now folling heavily.

Oct 18. Leave It. froze at 8.20 with Mer belurge a party in book & duyout Canoe, for Durenelle. Morning and & forgy but soon clearing. None of party know the river of but have directions for Municipal through the two Conions (It- Groge a Cottonwood) which are the original chargerous places.

Sot through the Ft-Groge Cause Sope Today. The rives is swift a runs between rocky walls with a couple grocky relained in the middle. The shear generally is rapid a rights prequent a Men requiring Some judgement in the Illustrant & pales their sopely. Rails Commenced in the optimism, a continued to fall during the lowning while we Comped on the W. bank.

against a very strong South wind. Stop for lunch
11.50 aus. at Indian village at Mouth y Blackwater R.

Start again 1.20 Rm the wind now very violent a

continued woise of trees Crashing down in the lovads.

Had a rough time Country down a heavy rapid

above the mouth y the Blackwater the wind very

strong a squell a raising a heavy short sea. air fall y

flying spray of while wasting along a diff a large tree

blown over above x only prevented by some smeller

trees from coming down on top of us in the Canol.

Camp 4:35 on the 2. bank.

Oct 20. Start 750 au. in Steady rain which began at
Caylight. Camp fast about the Cottonwood Even which
Tan strongh the forst thing this morning a not proud
very rough, though the clips at the Lides of the review are
more abrupt, a the valler won lain life than
the 3t floge Cairon. Found a laye party of Chinama
prosperting fost blow the Cairon. Distance pour
Caron to Duswelle Said to be 18 m. but
seems to be considerably less, as we arrived at

Lusuelle at 1055 - au. Find all letters for wer Law heur bent on t Blackwater Deport a must wait-tile the Come backpoor there. for diene at the Nobel, & Camped in Mr Robutsons fanden.

Oct-21. Packing forsils & arranging Camp equipageds

All not news ary the left-ters in Charge gite

CRRS. Worlfield down to Quesnelle R. & Storved Un

Selwyn the plant & circut hed forwar here last Summer.

Oct 22. at Dumille

04.23 11 11

oct. 24. Money bout with her Selwyn the Expanses
glight about a rule up the Duswelle R. Look
photographs of the Duswelle Bridge. Sarter about 1 Phn.
in Steamer for Boda Creek, reaching the latter
place of two dark. R

Oct. 25. Lyt Soda Cruft in Stage lifere dawn & reached

Bridge Greek long ofter dark. Had an upset on
the way, but without runch dawage.

Du Soing Southward arteminia fout appears in
any quantity not for four soda Creek, hear deep G.

Lynosiris a few wiles 3. J. Bates.

Oct- 26. To Cliebon, army in food time.

Pinus Bonderora first sherved wear the Chasen water far from the Southern edge ythe "Seen timber"

Oct- 27. Wednesda - To Lytton, a long day

Oct. 28. Lytton to Pale, arriving fort at dark The roads here very had a stowing widence of long continued racin

Och 29. Started Zarly on Str. Royal City of arrived atNew Westminster before dark. Day overcest, with
merses of wist away the mountains. The higher
peaks heavily covered with pesh fallen show.

Saw plants of a fun Phododendroon at Hope in
fardens. It is found only in one place in the mountains
obout 20 wiles from Hope of is Said to be hard to
trousplant.

Saw her W. Lisher about collector specures of produce of for
Oct. 30.

Lift at & away in victoria about 3 Pen.
Stopping at Drivand House

Oct 31. Victoria. Dies with Dr Helmkin

1. 4 Spent oftenon + crains at his Creasing

Porz 5. Called on Dr Powell & sew Correspondence.

Legerring to Sufetition walters. West unt his

S. & See Cowley's Collections of Stells Sea-wadso!

Yery Leavy Tain all day.

Nove 6. Interviewing grs Carroll & Powell on exhibition matters & looking up though for exhibition. Oftenoon looking for fruit & Palled of hus Creas! . Weing divine at hus Creas.

Beacon Hete with Mer Wheeler, Every talker to Mer ferring, Waking out list for exhibition ti-

Nova 8. afteriore dron round with & Carrole Whiteling specimens of fruit. News of the lors of the Pacific of Cape Flottery received a Causing feet afterton in town, many Victorians being on board besides a large munter of miners from Carsiar.

Nove 9. Went with his Selegyn . to med- De Carroll & The armstrong at fort. buildings to make arrangements for Rehibition. afternoon, made Some Callo about fruit, but without getting anything more . Evening divid at his Creas.

Nort 10. Men S & Wehler aft- in tender for Str.

Salvador at 2 Rus. afterwards wasted would

To Beacon Hell where racis foring on Strang reading.

Hor 11, 12, 13. Enjoyed chief waking enquires d'arranging about articles for Exhibition with Dr Carroll.

Norz. 14. Sunday. Wet & black all day, Reading writing & . First-few flakes of sclow feels today. Steamers too. Augeles & Dakota arrive from San Francisco & bring news that Crew y Step orpheus, which it-appears was theretal in Collision with the Pacipe, landed at Barday Sound.

Non 15 - Swowing all Marning. Med - Dr Carroll

Le wach arrangements for Various

exhibits. Every tested Lowe Specimens y are,

reading.

Non 16. Heary Snow & stories. Enjaged with chibition walters. David Every at Walking.

Fring at lux Desports, getting back à Lott quite

Noor 18. Echi hi hor borniers. Lutinour with Ir Powdl of felly. P.M. Evyaged Making tracing of Zaltagaes S. Corula in C.P. R. S. offices. lorole her Selbryn gwing account of world. Every revising plant list in report. Storing.

Norzia Packing & moving from driand House to

1502.20. Called an Or Carroll. booking at tracing in

has cleared heading of rain during the right having been covered for about a week.

Jold discourse on Frager 1858. Bepos in Calafornia much persecuted & tall of porsage of law excluding eters from the State. Combined of charlend Step & Come to Harrower Isd. + form a settlement. Capt _ gets Hip on arriving at Victoria heard of discovery of Gold on the Frager & purchased the Specimen brought down I a small oneadded a quantity of Gold dust already in his poression, a pot the whole in al fottle . on return to San Francisco took websures t spread reports to distorery in every way, to produce a musto. Corted placards & States, that Jola conta prese parone arose all sents of people packed up for Victoria, sola propert & cleans out. Landra property in S.F. greaty declined. Shep you Ship souled for Victoria Crowded. Discovery early in faring , d by hindsumer estimated that 10,000 people Camped and sile of Victoria, where look been formed one one on a hundred & las HB. Post. Dismay 9H.B. Coy. Wurners congregated at Fictoria & along the shore. In any, reaction Jeb him a work returned ts. 3. wistout gelten further than Midoria. May got up the Frozer too late, while other get good pay,

Non 22. Working at tracing in C.P. R. Office.

Called on her anustrong on business connected with charbition. Wrote Lower M. P.

Non 23. Saw & Carroll & Called on a number of people about whibits . Working some tun at has in CAR. Mices. Worked round by Beacon Hill & mouth of harbour. Evening reading Sky clear with hard front tonight.

Non 24 finished map at CRR. Spices. Saw a number of Specimens from W. Hometheo which her Fielden ann had brought away Beside grants of the roles like three bearing fossils on Tatlayoco I. Scene to be represented. Mr I is considered gensleve y In on Howetheo, though I did not set the specimens.

Forme to Ported corrected plant list to ford of pholos. In Sudvains to Selwym. Specimens of Hops to mecerial from an derson of Saburich. Which starts at 7 am for New Wisteninster.

Non 26 Sailed at Jan. In New bestmuch. air cotd of clear trough sky overcast. Islands snow-cled of a splendid view of the distant mountains of the Cascade Range in the vicinity Burrards Sulet of How's Sound Captain appaid that the Frager N. frager, but found it all clear armind at bust minster about & Ru. Find about 6 inches of wet Snow on the ground, & good slephing: Palled an Fisher & arranged about cehibits.

27. Started by Stope for Berrards Lubt at 9 am. Stage on open three Seated Sleigh, with a pair ybarres. Occupants besides self x driver, two Chinanteen & a Klootchanan. Sky lowering & beary with occasing a few flakes of suow. Words full ysuow & lovery New Westrameter a few lines get bezond area demoded for prewood ar by fines & luter the princevas woods. Country believe Frazer & & Burrarel's Sult undoleting or low helly but not high. Soil gellowsh, Sandy & gravelly, though open probable pretty rich though the great size a thickney Morive at has about 11. a sat ytavern terch a hur outfaildings. Here embarked on a dumentive ferry steamer & soon got across to Woodyville to Sete phoody & Alrons Mill, a the Nide Water perfectly Calin sky cloudy & the woods & "The hick" is of waise the Centre & Paison d'elec note rellage which as a strappley little place The bourses perched a te prout- I ya step boulk & forming a broken line along it there as liverywhere in this country a very unced assemblage speople. While wropeant or at least whites fill the responsible Books Luchaus (Squarnich) Cheramen regions & mobilois & holp breeds & morgals of Every pedigree abound. Juguer ythe Churcher wen originally from the lower brownices.

The will on a large scale & well appointed. a pair glarge Charlas Saws & a large fang Sow, besides a Swall Circular Sour with land thousing Cutting to ands into lengths to Flor planning wachings, hill driver by steam but looks power privary weed & Still available the cuployed to drive planers When other machiner Standing The logs are ten large & pine, & Qual up to about so inches . Sogo Carger their these are not brought the will or are post splet by dynamile, as it is notpracticefle + Love ariular Saws much larger than Those in use the pletes being apt to "buckle". a log hauled up out ofthe boom cut the well is prit Tolled by weaus of Looks & chains & friction Garing overhead onto a travelley cradle. There the Souls . outer stap taken of a rejected then two or three plantes, Log then turned on the flattened dide & again Run through a perhaps turned get gain Manage t get the greatest possible thants your clean Rumber from the outside . Log advanced The lack cut to a pair y screws worked cach & a Aman distance regulated by character glog & sort ylumber required. " Mary aus Wilson" Capt. Stoddart loading at wharp. went on board with the N. in the evening & Spout an bour or two .

Hon 28. Kears during the wift of old day in crasing that already on the Ground to over 12 inches. Service in the reading room - a very Creditable igetitation Kept up by the men - by a run Decrick wetto dist. Attendance rather Starty. Reading to Talking. Luow Succeeded & Pain about dark.

29. Hary cold raw all wift, a till about 2 Ru. turning the Sevent stush but scaral removing any get. Well Not Warting bortrused the Westerd of Killey fish by Dynamite. Cartridge fetted with fare & The temp prid turoun of wharf. Explosion dall heavy formed but not much commotion quater, unweighter followed by the appearance of thousands of herring a better Sende fish pluping above the turpole. Not in the timed ate vicinely ythe discharge but in a cercle Sucrounding it a as of tryling & escape from it. In a few Minutes Surject of can be sound from a book. See Man Called Trim a fis terman. Lells we that Verillia found in great ofundance only in English Bay Burrard Julet, but also feen okcasionally in Sentable localities in Hours "bull" firmly logted in the hand . In fishing for Dog fish a long line west smaller lives deprending from it, set out . Song fish when booked in trying to escape twists the lines round the Verellia Swhich is thus pulled up. Found infrom

the to forty fathous & perhaps deeper Tells we also of existence of Hautiful trampel-shaped sponges for How's Sorbud, & of a branching by droyoon? life poulain in texture, wear the IV. lud h Texada Island. Told that thre Thinds Abears found in the training Atte Julet. Comman Hlack, Cumamon, & Iblack with a while sport on the breast. Latter said t te as large & piece as the Cimamon frish not in this part the Cascadis yough Jaid & come the Coast puliter north. Ocuma not found here, trough common South of the Frages x on Vancouver Island. Black-tailed deer his abundant. Mountain Good Common on the hells, but only the flats. Said to try of to keep put at the Sylest & most uncussible parts gete Tange. 30 Pain & Slush. 31 Rain & Slesh Blasting for fish with Decr 1. Morning warm & though still much Surve looked where promising. Soon typen to rain bower + Continued with lette intermine con all day Took the form strawer & Crossed to the Hasting Mile Sand Capte Raymon the manager + inspected the mile which is not much different from Moody & Allrons, but not guil- So will

appointed & having a power cupine. Houses & Miles farming a lettle tellage clustered about . Ships Spars wade more a Eplicalty here & Many Exparted. Obout help to ruite from the will is the village of granville or "Gast lown as it is ware popularly Called. Javerus a Saloous not allowed about the wells, are concentrated here for the Courance of the hands. Sandstone obcurs all along the Store hore & in Jake Creek liffrete in the Jeans exists The Sandstone I seen by we Loft, Jumish, Course, & ruicacions prevented any por examination ytte Coast. a boarmy several hundred feet dup farmuly Made at Granville. Visited Ludians man Moody's mille (Squamish) & bought a foot wood blanket, with your 450 Speamer of distanceons Part ased in twisting the Strand Wool Sand the Rolled into yurn on the bare Ruce with the hand & aid of this Earth. Balled up. Fram used in weavery a sumple square of four sticks & the process grocaving wight tetter Le called plaiting Told that the Ludian women hot infrequently a Slift occasion & plent very determined. also that though Ludelaus on this coast do not take scalps they are superstations about letting anyon fit a fragment, however swell y their hair Huking spparents that to posession Gives the some a supernatural power over the Svening on board the many aus wilson.

Der 2. a steady downpour grain all day.

Again fave up intention of going to the Decr 3. Decided to Weller to New Westernster today & so obliged to wake visit to logging camps with the relson on the try "Jest" of of + Camp about 9.20 "Camp" Patter a permanent year. a large Stable credit for the oten & Dules, x houses for the men. There on the Fank above the Stoire. Funkering roads radiation back into the woods in sell directions for Several rules. Roads will made, Twide tacker often but through & novines bridged bieces intedded in the road at intervals I notified in the centre, other tackled to log, Which lests on the Cross pieces Man going before with brush on Que aring them tout doj-pol rel to melle the tops Tun casely. Lies when felled at the first-deprived ybark Chapping! Then Sawn up into lingths the Trul magnificent woods. Chuff y Douglas for Time maple Id & Lichens & two hanging yards long from the lower branches the long straight Clean Trules ytte Dougles fin stretching up It are ythe larger pines is very great offen. I think our for or 500 years. Told the inthese bowwer that remains of former fires. Thought Luciese of trees at frest telus very rapid, mys of growth being from 13 to 1/2 inch. afterwards very hund pine abunt like steet of paper Seems quetton as to how far this very rapid sowth can he accounted for on by potteris of young true springing up to replace others fallen & natural decay in old priests. Would be fetted captained by Supposing that all came up together when not overshadowed 4 Cargos fronth . Seems an intunting quartien Whether trees may not have spring up on land recently coindast clevated. Might-the ages your at like elevations along the coast tally? Saw the tell soluted wiginally to send to the who biteas Os a spar now cut up. delected a tree for section a plank of. I arranged with Collerell, the forem an for specimens ywords VE. Back the Mill in a Canol propelled y ourselves de Cary Indian, arriving furtin there tealth the terry to max's. Travelled in t bustamuster on whats Sum Fisher Dr Trum 12.

Dear 4 Started at Jam in Steamer Enterprise
for Fictoria Day from throughout though rather blustry
If grown the old Steamer quite a torsing in rounding
the point into the harbout. arrived about 3 Rhs.
The town in a forement of excitement - about the Memorandum
of the Canadian forenument restually abandoning
the Island Pailway & Opering 750,000. I in lieu.

Got letters & papers, washed up &s. Deer 5. Cloudy & overcast with Pour Cold wind Train convenien about Plus. Saw Dr Carroll & Rending & writing Decr 6. Enjaged all da Calling on promuned Contributors to Exhibition a writing wifes to others. wrote Fisher, Robertson (Quesicalle) Ewing (No.) Fi. Wrote to Selwym a short note procurry particulars on Friday. Weather fine. vit schibition see day, Every puiled reading sproats scenes in darage life. Decr . Cleared up for an bour or two before dark Gadding about all day an business connected with Exhibition. Ivery writing out list of retitets & estimating space required. Decr. 9. Saw Dr Carroll & as be haves townow for ollowa got remain many on whiteleas acet turned over (790 and dollars) for macours plants looked up a taken to Meur hads the packed, Made several business Calls of brote to Cottered of Hogher about lumber specureus. Wrote descriptions in opper country & procure un specimes &

Wrote Selwyn. Prof F. Refert Jones, the Caylette to Fatter. Day cloudy a weld but without rain.

Sent of Macours plants packed, addressed, & Sent off Sor-Consolar artificate for them.
Saw Si Carroll of.

Thirmoon Began examination of rocks of this heighbourhood at Beacers this Park.

Whing reading.

Secr 11. Money Rad agreed to Well Menors Spence of Nathan & make excursion to Fredger & in Rarbour lovether however altogether too boisterous.

Call at Mechanics Lust. & pay \$ 100 as Monthly Jubscripton to the library. Optimon & annual dostore N. of Clover Pt. title clarks.

Evening reading . Day fine!

Deur 12 Reading Fords Notwentstin B. E. All day. Day overeast & Stowery.

Jear. 13. Job Fisters packages scut over by Str. Interprise, taken from wharf up & Muin hads. also collected there Variors other exhibits for packing. Viset from Dr. Johnie - P.M. Examing to coast New yellower Pt. Day from

Decrite. And her spence & went int him to the Brown Rock in the harbour. Descended in his stage & sow the work Plu. Examining rods hear Foul Bay. Sorg reading a fine clear & worm day.

Her. 15. Calls connected with lehitation Delu. al- Mice plotting geological work ?: Decr 16. Morning for botes pour Fisher N. West-Unite, Botes of Specimens form Barward of Look Echebelian foods t hunteds. Jol. Specimens toffice. Ofterwoon Tracing Webs of ricing of Victoria. Lellers pour belowing thesecours, whome this evening. Celled on Junes & went with him Hotters & the Decr. 17. Oh hasuurs Connected with lebilition Fru IV Wistanies to & adusor Jaanich. also other Specuvens. Eng. readery. Decr 18. Oaken beter of specimens & addressy their Oftenion writing of mee. Sow Capt. Holives of "mande ast bringing flag-stoff from Horse stor Bay. beck. 19. Luday. Toolca week up & the Jorge, the de Leng pure but roads rewarkably muidy. pot telling of Shells & under deters in Some places on to This ofthis are. Ofterwoon & come couling Dear 20 wany writing & on the achibition business Jam his Milson of the Capt gets " Bearer" top about getting specimens alrows from Barrard letters to Selwyn, marmy meridett in answer to

but with lette rain.

Secr 21. Called on hu Charles food to Jet information on out port Ifola pour Province por un Selwyon. Maparking totes of specimens at Muc & arranging them. Every reading Vancouver's Voyages. Morning worm a overcest. about, Phr. beary fall cause on with much rain. Lastet Means all might.

Lever 22. Ot - Pfice Conavojny statutoco y Sola produce + Coteling specimens. Walked out Fort St. Mut-Judge Creese, Called at Japanto het pound all out. Sony reading. Day moderath, pin but law Sony was raing. Stops & especially butcher's stalls now was a Charbonas aspect.

Decr 23. Day five though cold + windy. Morry + oftenion Continuing examine atom or rocks along the coast four Orden Rt inwards.

Dear 24. Morning making Calls & luquires in Connection with rehibition. Afternoon labeling Specimens & writing at office. Evening reading Vancouver's Voyages.

Day Gold & overcast with occasional Stowers of Sleet.

Seer 25 - Five & frosty for Christmas day with a tru skin of payer shet or swow of the ground. Morning reading. Operations worked to Esquincell & back : Swang died at DZ Helm ckin's with marcus Smith, Genny's gaustay & Mr Nathan for- house between 21 + 1. Some sketcher, & for a Short wolk . Svery reading + writing. Day Cold Hustry & Surving Slightly! Nezy compleaseant Finished Vancobrers. Decr 29. made various Calls in Connection with Schilitan & question as & export yeld from Province. afternoon tracing map in CRR. S.O offices. Evening reading. Having & stowery ale the morning. Blodding a fall with Leavy dain oftenon of evening. Decr 28 at you all day labely & arrangey specunins I wicro despec clamination y sorm tripole Careto d'-Steady clown hour yranis . Soy reading a writing to william. Decr 29 Day fine, clean, a for the Season warming, but with a strong S.W. wind, Started about 10:20 for Foul Bay a examined the Coast line to ook Bay returning al-5-45. Took leuch on the Stone. a very beary sea Tunning in on Foul Point. Every reading!

Necr 30 at your worm & Ofterwoon . Colley work on wap & writing up votes: Morning overcent; chilly & dank ofterwoon Thin, Svey Rain of Leavy Storm of wind. for gual- wail y popers, periodicals d' & X mans priments from Forme,! Dec 31. Spar arrived por Newsins Horse Shoe Bay Called on Tur Rhodes as to Shepping & San Francisco ria Sto Parama . He objects to takey the Stick. Called on Caple Paymus & Mr. accustron as the felling spars out from England. The Selloys on his good & Wells Jarge & Co about fold with the dat work tracing a ruspin the EPR. S Mices. Every reading. Day uneratte tours grain raind & let L'any coma. Telles for House. au 1. 1895. Many packing macouns plants, O Tur Jennys Lating Keval yfered & lake them hade a few Calls with the femining way. Afterwoon Every reading with the femining the throughout fine throughout & way Callers in the streets. Jan 2. Writing felters, reading & for a start week. Day overcent hat not

Lan 3. Enjoyed sel day on humers connected with extition. Water cells & Cultino Yarions people. Theres Camper flowings Harris & Ceare & Steward Today Errung reading. a few Steward but on to whole fine. Pat cheques for Solery accounting to \$582 35/100 to accept in Blank the made 6 Rm. examing the court from 10.20 ook bay to Cadvon Bay. Every rented or walken. Land at office werry & Oftenore arrang spenning writing +2. Every at-library Le reading wrote of Remone, Enquerence of Relt. Land b. hupacker specimens & writing letters. Every reading, & writing bowe. got-letter from water. Jan J. granne rumals + cres unto blowpife, at-office. Engl reading at form + at librar. aft day. Jans. a pin day. Ekany unwerels ant Blowpipe Land anyon, section including light wined-bed at Durante for drawing. Eveny at-library & reading at- form.

Jan 9 Sunday. Reading Prisutes Hut- 2 Engs, of Tucies all de son during ble . When for a wolk. Hunty up a gavel-which I suppose trum from out Bay withward. I and Jop as Sdool ridge in its course. Johnstone St-Roving wanty is a live with last & narrows of farbour de Hospital Pt-. a rry por day. Jan 10. Meating Calls in Commobian Teret Exhibition oftenoon at open of the Local Legislature, & scanning wicks on Promonter 3 of James Bg. Evening reading, a free de. Jan 11. al-Office worm & oftenoon, drawing section of bids at- Ivered, a wester accompanying discription. Ever at concert in and of Rep. Effice. Church. a very five day. Jan 12. Enjoyed at Mice Copying statch of Nazo R turaus, a writing. Every reading. Day orment. four Berrard Lulet. Have com our in a scow & pour saya some difficult as to getty outs any Warp. Un Rhodes apres & let them lie in his Flore tile read for shipment got fold et atement from Wastargo & to. Photographs from Epencer 4: Plus Made Several Colls & the altender for a Short time at the House. Worte to Fisher & Woody & Nation, Severy them discovered dedast- in clay how tock near bead of Jawes Bay

Jan 14. Packing forsils &: for montreal.

reducing excelling mayer of drift wounds.

Reg reading. Jan 15. arranging & padking plants & forsits Reterraces. a fine & warm day but overcast. Received & Cepriss dry-platis. By post Charts & Coast & Michologie Loology. Jan 16. Sunday. borde some letters, roading d'Ofterwoon took well on W side henbour. Gorg. reading + curesty alty condition yelly plates duna pour matriol. Bot oppears t "how here offered, & Sandert also damp. Jan 17. Poeking both at Min. Called on her Rhody Shoot to are exhibition business, chiefe writ regard to the steps of Function of the day. The devalue Ferraces. Jan 18. for tokes broked up, addrused & taken to cepries office. Made arrangement on Shipment of flag-stage, writing vote to Pror Secy. & felling him to write to the Contriller San Francisco of the attended to there. Found continues

When com the ready that her Rhodes declines tolking it this trip, having thegraphed to the lapt gote Pavarua bow on the Sound. Only recross that can be assigned that the Steamer a letter behind her time. Livolors de got-last auster fart wight, a perhaps Evenly redding. & writing the Scherge & home. Jan 19. at This drawn was growte up The Chillette B. Son water up Cerlumal act of Elading. Heavy fall y snow last night, a accasional Showers during the day, Ground covered with Slush dowering & overcest. Jan 20. al-Mu drawny lusp y Chelcolur R. a very pure day but told & wridg. Sur population ground Jan 21. a fine clear frost day. honing called at bank with poss book to Tan it wade up of former that chefins put to Credit on Jan 3 Could not be beard of & bon not on Bauls books, after luguer the was found that the Leve here dent & wontied & were wentined us the Wade ten or then cales an exhibition waters a words when 5 Bunch & 1200 country.

Ofterwoon drawing & listing to debate in the Your on the rablery revolutions. Buy ready Beveryt when y Pacific State. Jan 22 at you drawing, relepaphed t selwyn aster, yspar shall be sent your delay de has expelienced. got little front four Der fine & clear, Ekely Jong on in ponds . Som. reading. Her 23 Junda Worms reading, Ofterwoon for a work. In reading & writing . De pur a clear unit cold worth while . Voticed way robus t Finches (Junes Expundis?) here glate trough the hart swin enacter jet- experienced the touter, a cerval inches show on the grand . Fundes growing granden odom. Heads leade. mali. und redash bionin collar on bulk youch of cosing round our the front bant-y shoulder. Bill while. fan 24 - At- Man discoring a flotting was. bout - to-time dibete of Foure for a lette while . Ing. writing form at traid (Kerwick) reading. Day clearer five thawing in the San . Jan. 25. horn at open drawing map. Ale. letter to debote in Home on finance. worken munity dyets to 2 rotes. They reading & looking our natures. Jan 26. Flawing was luony a glerone Unity letters Erg. looking over perstopper Cirwlars & reading. a pin day thanny a wild. Jan 27. al-opice drawing was backed & sent Ishells to Lelwyn. wrote various bellers & made Calls on exhibition business. fot-Cellers from Seluge a Buyers. Every reading a fory regardopper Circulars Observed Today Curious Crust-or Crating as Coals a hade brids pale at pie. Claumed it & have I till plored that tolatilized since otide produced from Small quantaties in the cool. Revenue observy Similar Conting in Pictor Caused) Cool from how fles gow mines, collicted dample The dust but did bot warmin it. Jen 28. at Carpevlits arranging about parking phone neps at color of a gries. Ever from hoper Circulars a reading. This Therman this riony Marked 120 hot clouded over a temperature rose. Thanky work- John a vous wild a wife.

Jan 29. at Ope working at mate.

Toftenion working at mate.

Evenly reading the.

Deg broken & storming with thoughing Lan 30. hong reading. Extruor on a walled reading. Even arranging parstopper in whars of reading. Det ala observe a with shows of rain a strawer arrange this morning but mail not delivered. fan 31 acome suspion pology - Writy alter 72. Feb. 1. at office writing a claming rocks + & write duices cope and forstopper. acading. Feb. 2. Morey at office lantey Report - also at leston House fithe relation of various experts imports for Exhibitions Cetalogue. Moreon arrayer about packy ybokes, a deposed to floo staff writingletons for wail of asked to fine all claim to the hordances Lust. De five trays latter dark.

Feb 3. 6 repary Celters for port. Called on hom Rhodes & to told fly stop of but again but with with but shopping. The R. reporte the matter to Capt Seybury of the Panama white of to Jame time of very apparent preceder afainst the fly-stoff. true to prove that the flag - chaps would be late, that itwould be broken in talking on board 4: - puelly Send he could not take it is Too bear for hurriane click could not get on main dick because a stantions of this this the through him R on a private Occasion I bed from told that there was to definely about licking the spain ; a hard not made any effort-Elsewhere & lake it as board, on that lunderstandig. The May among y trust with persistant obstruction where tran is every rusan why all parable contain stored be given. Ophuron al-ope writing. every write fais topper 1-its. Leb. 4. at office working from the volor. Blu.

with Report. Try reading a furth runs about

the fire though blusty & furth runs about Tel J. at-office with report. For a Stock-wall.

Feb 6. Reading a for a Walk. Grey ready a writing bour a thatleam. Der fine. Leh. J. Survey a blown he orig all day. It office writing. Sol alles from Our - William. Set-8. Fine outless but cetting slusting a training.
At Mrs writing report. Ever skelling out ledur On flevel period of reading. The g. hum enjoyed welling Colls & arrangements obout athirds. Openion writing report at a sumpliments. Every writing a abilities, paid barrand alpus on adiabation Sed- wir. francs. Sets 10- at office writing report home a growing.

Song copying out first open poper, a ready.

son they much but occasional showers.

what alters of the alexand huma wine dr. Let. 11. Writing ruemo glebitet for Humphrup. On outside whitition Hanners, Run Gong over Specimens a mos wit Lordinan. Trey freshoper Circulars.

at 12. britar at The am & Ru. Sway
addense fierstopper circulars.
Run ale der Jul 13. Reading Li Sour durant bolkens. Let. 14. Writing report of you. Cally on ranges heeple in Schibition, & hade ut you writing my reading a closery forshoper poper. Stower heechaft fang steam Canama aring yelling bit- 100 Jund y 1. Pauje this form. Letter por Leb 16. but teprus vond for the articles.

with uportat opper min writing out

Catalogue yethers. Let 17. Making arrangements for Sheprinaly specemins. Run. Westing letters, a on other extitution funcioners Greing writing letters, prinching Catalogue +2.

Let 18. lojoged all morning sceing to Shipwent

Of species of Lender life with them to

persengers for ES Panamor at horn.

Mailed all grasshopper liscalars & letters.

Ben. Writing reperbab office.

Eraing reading. Dey price & warm.

Feb 19. Wiling out favr copy preport-all day & part y breining. Reading of.

For 20 Sunda. Monie, reading 48. Afternoon

In a work. Four lite & way pools in

I so che bare. Observed what oppear I be three

a four different sporges. I bright relieve or

green brun currently that scalling tained

bscula! 2. ter, scinilar but pale peuple, sometime

fodra t whit ish, but hum apparent yellow

or freen 'get thepe a bold to Similar that was

be different stape 3. yellowers compact a compact of

families like orking thank of broad sporge; 4

money than clints as stelling stols bright

scarlet. appelments is any very swell.

Song writing a reading.

Jeh 21. Sony ver reportall day. Trung for a wall a reading. Sunt excitementore Just by great majority. Result Known procession formed, Land & I to all the might Party Howery today Sayin that whitein articles show Feb. 22. Overhavling report histing a glimose oppuring warm & higher time Sireral retichers from cheliers centimenters lower. Let 23. bonking on report 28. Wet-all day Tet 24. a pin day but Stowery. writing out or work between die age for west stronday mailed or wichous Report a three Specimens y where grain work or whole un Selvy 2. Evening at parts at Judge Creas' for felly back at 140 am. Lellis from home. Feb. 24. Writing licture. Serving your Carpenter at work on 'Slet of Yellon Express. by. Jast tur hights pop Creating voisily. wild foorelery beging to be green. Willows Cathers Fredding out

Let 26. Lumbungledure . Looking glos packing ythings for exhibition. Pelu. Julepisely Chapleted Farmy of James Bay Fort a round & James Bay & the Court to Rhodes Wharf. Found a Cumulou bid at walers lage was the taller place the Fun Fer. 27. hong reading afternoon for a walk. Found shells like the already found wear clay but y Beacon till Sauce farms upwentet. Occur sparcel, a irregularly he hard sandy clay both grovel story occesional large boulders, Seldon evident glaciated. Deposit is not reeling on the troutply flaciated with farface & in Some places a Land gellowith Clay wet out stones. En au s fort this noticed the jule y boles like those of Sexicoras or proled but above the fruit by L'tete line. Forme 6 incles sleep, others born away in bent title bottoms, which layer them apertures, exported. Can one suppose that burrowing down before offer Clay beds formed. By redig & writing Day Viz femil

Let 20. Schibition busines. Looking over bedure.

Reading. Grein debrand bedure at 7:30 to a pully food andrine Say 100. Day price.

Let 29. Packing up the cts for exhibition at
Carpenters Stop, Selling buts of objects Made xi
Phu. Coultima Golofical observations rowa Rock Bay

the Squin and bridge.

March. 1. Mony Hustry. Pole socreta Showery.

loutring out list for botes a fetting them numbered
a Closed.

Ohr plotting fool operations. Evening radio :

Deposition chique in bank for \$ 266.66 hery

School to lind January.

Weather Very Husby West 2. wind

March 2. Examing rock represents on all the Streets baking them Systematically Mariner afterwoon. In Jamin Called this crewy to any the world take the play-stop! how two late. probably world to this action by outside pressure. Every writings reading outside pressure. It will writing reading outside pressure.

March 3. Making arrangements for Stipment of specimens, writing lellis to Jelioya. Ochaalt 02. but a starring. in rughtonbood of Victoria. Ery. at-Mechan Just. Hending. Meanch 5. Sunday. Reading for a walk in the apterwoon. Strong lesters Jule. Reading March. E. al work writing out observations, & plotting good work, brote Hughes & Swend wire. Rower Charles to Calter . Porter letter & Sent Rowe. Vorzwindy day. Nach T. Morring at office felling latte d' Changed & room up stains. Reading. Run grolopisme, but driven us by weather strenning reading, about the liebs yslush on the ground this morning, I squally with sleet of snowing the afternoon

march &. wery at office. De Folime Colled ". Looking our audurais Europ. Plu plotty fed. work. Writing Steen Reading.
about two withs pleasure Cost hight. During day
want all went. Sor. Light wind & frost. Warch 9. Writing a reading. Collat Creases. brote. P. W. o: Soy really Day for but lold puzzy in the Hade. Shete a lette swow on the frond . Writing of Under by . occupied up Stairs parlors. Mench 11 82 Folume according they organist Succeeded in hunsling an indian & bely brust with subour sul to work & got 3 dialects yete Lunguelte language ythe V. liet ythe Island & adjacent wantand. Further about H. 30 A pretty tind. my ruey Day Cold, undy A percest.

March 12. Ready. Henon for a wok with his wouldeth, followed the west live yete power believen ben & Specimoult. Day huselted, blasty brothe rain. May Indian Stell heeps along this party the coast. Forvel in them a deer form Charl, bone weedle or and, & backed prh spear. Several many prupetous little points protected by carthwork like that of Beauco Till powl- also Saw when apparent holium Camp or tellage of some Kund Leel bem . for circular hounds, with depund Centres. Iwerel yeten hear togetter & from (54) 15 to 20 fut dicimler. (Luguely bornes.) Called this ex.

March 13. Called on his o'Keelly afor for bemes aloun apen Spennen gite Punice holve Felver. at Ope for a althabile du af oper witing letters 7- In ready. Dejgle, & Bryden wiking Cool Specimes for huneum. by ready Saucin. Woly. Bourge. March 14 . at work with De Folive felly Ludian rocabolaries Sreing reading Day orward a dull. March 15. Golopising Marning & Afternoon Svery reading. Day tery unplessant Squally with some surv. Parts clear March 16. lent De Loluie al- Office tite 4.30 getty Ludian Pocabolaries. by. at lebrary, a reading at tome. Day Partly Clear, fire, but chilly.

March 17. Unote Selwyn. packed & Sent y express specimens offela & Selver louted bot find lot Lave the fis promued Specimens from Munica but have sent our pour his o' Rulle, Reading, vous at his deliver, DZ Folivie Fing three March 18 Mary Portry letter & alterday & Various walters of bonners, Reading Offeren Ecaring west about hudian Reserve. Eng. Heading. hurch 19. Men reading Dancroft. oftenous for a walk . Hey reading & Said to hore hen a slight contiguable at a few minutes before light this evening, but west-box hen very slight as few prople

ment 20 writing of delerny minerals with the Howpipe Francis reading wet day Letters from Lowe.

march 21. Working with blowpipe . Oflewon Mily Hells in Clay hear lutrame y backous. Erg. reading & with out to the Vocabolary for we with Ludians lowarrow, the Suntroman rocabolar loving ken apparent later some a frue a warm day. The Stells in clay or hard sands clay are winderly for the wind part undisturbed. The Cardians: Forces both rales & teny you thee luply. Ledas in the Jame state. Some ytte pebbles get stow wastes bases gatta chunch yete Halan Swall Speus polarus While lo not uncommon; The water in Scrue places a Yory hard Sandy Clay with unty a wester stance Cracks treversing it in all directions. Lette trace Hedding with occasional large Stories or boulders but there ber Selden Storing Signs of Clarichan though Lowellians distribute. In other oplans the deposit- were Sandy a groodel, a bedding Very like rue sediens Houlde day m te plans your in clinica) quite distinct. It very pury Tomojenions gellowsh-westering blue day seen lowesta form gete same deposit. The has in Some places very criquelar dalund as though Storich up. The frame paquent are office full decomposed a soft a the Hole for widered free

Ware quite tender. This witwithstanding the band watril, or their position only a few fulabove Light tide heart, stowing that they tund completione all trace of warine life a los probabl alread, Von teen Rest- to liverge, "The saine action enguerned in Scallered throughout, but are wore abundant toward to top yete aposet, which is severall Capped & a layer of Sand, grovel & bouldies, Winch Coarser that the lest a probably in part at-least due to rearrangement along a Coast line , In Some places as his a ditch in Rook Street the Characteristic Cardium? occurs almost wine dialittelow the black Surface Soil & in others hear the Store, the lower layers of the Ludian beeps of Stells a turned stones Coincide with the lowell ofthe black south. Stowing apparents (as Store hot get prod the Thell light for pointe Store) Not the lost elevation pretty Fudden to about the wodern level gette toest, Italbegan & that at Same time first Intelitants wolf posesseon. The dreft- deposits resting on the perfects polished & stricted rock Senjous, (Surjour Stricted in Such a Volding Hells, would Seem to unply the. Gadwal Vetret of a flacin foot which

I purted with the Sea & that Jour speans of welluses followed it jut close as it - went. The Sale Uninds from Beacon Hell & three-teched on the D. E. Side of Spring Ridge, believe the town, & well exposed in an old giorel quarry the (see Seol. hotes / are probably assaux repreable to the Spoken of . They was be in part old termind & Coliste waraines war left at different stages of retreat, but are liver likely the deport of Ostranding ice, wodified & Currents. The waterials are Coarse Sand & growl with war layer twall boulders. The Carfeil boulders high up, but filled le between with swoller Stop a often alwat entirely covered up & Concioled Get as though, the Sur weegence still Continuing, the Tupply yice capable of transporting lays blocks had Hailed . For Section dryt deposits risky direct on flaciated tolks See fiel. note Book. Here does not seem the any vor, distinct line between the deferent characters of deposit, trough in bollows tryb blue clay seems many always to occur on the rock or separated from it & a thank ayor of "dist"
d grovel. The feveral tendany seems to be to in overe in Coarseners upwards. Perhaps despening water the wear the lest allowing in garden barten to Host over the Couly "

Upril 22. at office felly Ludian Vocabolar afternoon examining rocks about-ofden Paint & collepting marine dumals is along to track. Day pur & april 23. Heard that steamer bed arrived from Burrard Xulet a on form to wharp bound that sowe but het all sparmens Led arring Fond also letters from flesse & specimens y grain from Rainloops der fol-all laten up to Carpenters Stope. Wrote noty. Packed Silver specemens to send & post. Ofuron vow in full bloom, Red flowering Current - Ofegues to come out. Caughten frog & got rander other Epermens.

Midde inventor of flasseys Spermens &
Sent wit with the Selvy har of services & my at Concertin and of St. andrews plotting fistopical work; writing & E. Evening Wading & writing. Day pice.

april 25. Mory writing & obern, celepse z Collected Jew Howers. Way reading. Day implement - cold with Surve flurus & Ligh wind Observed post dautyliens in flower lota. not jet ter atundant fere & said & Fore bear introduced about three years ogo only. fort. with depay cent- of gold widel t Cedar bell or met Douglass with the Keit, ascended it & set would by 5.50. bulk about of miles new maprificent Day free Horyh brudy. Fond Serval spices of flowing plants all Strangers 2 carliest flowers fore a very different from Cartest in Canada in this respect.

27. making of Centermial account & Occopied some time unt & Flime gelling rocabalary from Chilcolin Ludian. Day boull bet deloning. No hail & Porth Pacific. 28 Day shower a vereast throughout presenting he from taking the field but about lower attending to rains business matters. Wrote 22 Syllmanni Pur maion Gorin Hamilton +2 afternoon writing out Goldine notes. Trenny Tisitors. Reading. Brought-a rather rewarkable Ludian wask Jegyptian Cast of geatures? Saw an Ludian Woman gong about the Streets today with a booket of presh ferring spawn for Sale. It was attacked trickly like Swall Shot (but transparent & Coloreless) to filaments ?) I weed & 2. Fold) Dr. Folime that the Luchan I some parts 1/the coast - collect freet quantities gete Spanes at this season. This espender to we at hell bank found. He practing to lay Spring Handes in the follow [weighted & slower?) A low tide. The spann then Carefully dried, a packed in tous as an article of food. It- cows in Sour quantity to tictoria at the proper scesors. I tour does this tobil- of spanning agree with that of the Certain Terribe.?

Thank 29. Day unselled tent occasional Shrwers, Some sleet. There out paine a cramining rods on the Ceden Hell Roak.

March 30 . Allending & Various losewers walters

about lower, weking arrangements for

packing last specimens &:

Plumon Pacing & Craming rocks on Saanich

Road. Cause across country to the ledar their

road. Sog. Marter tered. Elading &:

Da pur bot thell.

Oftewoon and paced & examined rocks to

we . for tack ofter Fit . Ing . leading .

March 31. Morey & oftenoon writing up roled to
des orwert & chile list sline wind in
Morning. Measure (paad) food base
line on Quem's arenne grindling Cedar Hell
& Saanech road work: Patter fork yunts
2 reing reading.

april. 1. brote buts for Coses & got Brtichs
unburd & packed up, but & Felice
al Mice & enjoyed felter in dean to celolains
brung reading in bruse & at-beliany april 2 or John Called according to arrangement-al-9 to Sugarea at his bouse all day write three Ludians getty to Cabolar. Back of our about - 90 hr. a pur day but belg. Chul-s. forturius for totas & arrangea for Ship went - brothe Silvyn & Perranet Lin Gebysny on hopes was 52 Foliums Lower Fake Song reading & briting a very pui day. wads dry for portune since Port-autumn. her Todd totaline justerday that about four years ago, and other times he has districtly Seem flame issuing from but Baker of night also that almost date above forers "a shoulder" pour to lot but some way down one side.

April 4. Pacing roads & laying down rock whosens
from 10 am to many 6 Rm for road &
Brunnede Road & Alead mans Rever Bridge.

Sreing reading. A true day the Judian
Village a large quachty Herring from in
process y drywy. The cidar & Sprine transhis on
Which it has been deposited (see from not)
are hung up or Jobs like the Lerrings themselves.

april 5. Plotting work at Office Worning & afternoon . Wen labeling spreamens de d'reading day pris but mer last.

april 6. Out-all day Messering roads of paring a examing aporates. Francy reading. Day frie but overcent & windy in afternoon.

Protice Ludian harial mounds of Caurus very frequently formed of closes peliet together in to small wound fluerall operate form. Often some distance form the roader, a fewerally on some worky letter till, or man to have youch. Probably position that had not for any other lesson town abundance of the timing of contable stone.

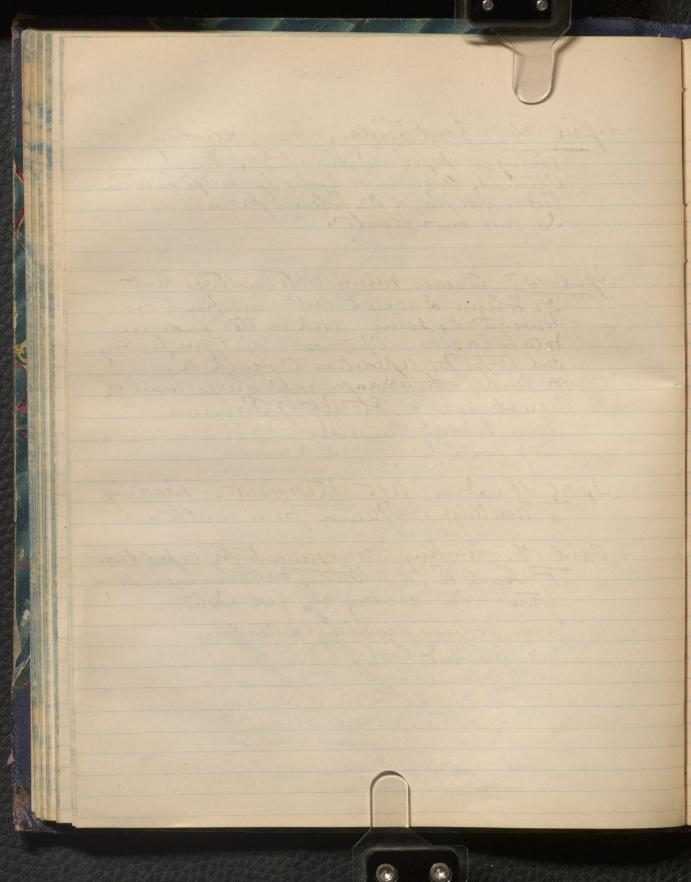
Little Shell Props touch scattered through the woods

for pour the There Found to doubt & parties of Lucians tenting, triding pour Evenis or differe Karnars Root. For wel Jollin aux deprinte leves as though wanting primer Seen her swall implying only benited occupation. Carge & regular hops wear the drivent stone. desplements very Tan in Stell teaps dulerviewed her Gold at the Garge about the "herming pile" about which I had & heard. He letts we it is a fact, that a humming drunning or booming voice is wade & the pity wholes water teard plains in a boot. He les (aught the pish, & discribes it as with a large read takering ? apial to the toil & writh the Course was pus befind the read. No scales, Horyh Lead Lard & tody Soft. Is Sure is idult, as even when out operate of louded on the head cents found. Heads the nome in Survey & has noticed it only between the Joy, & Craig flower.

Thulf out all day feologissing Day overant with a pew stowers in the years, but wild I pleasant. Sam a faming bid totay. april 8. at workat office all day writing up Tolis & arranging specimens. Thong overlest Key woods & cold oftwom Bailt fine. The Beone Rock" in the widdle y the Forbour Hown up at 4 Pelu. Un purency a feat trond is spectators. Stells, which very pully but arranged soley fre trality in " couple offers ceses. april 9 - Senday Every reading afterwoon walked to Erfumanel. Every reading & writing Jour & tella. regetobon how advancing rapidly. Red power, curent in full bloom everywhere. Parshia? head host-powering. Sarlier willows feet Johnson, Davises in bloom everywhere (He lamon English daisy richora & Inquino andt.) Salepages on the riches post about to plower. Whele adder's Tongons in bloom. hoples tudding of Strage atte hout of flowering. Wild some terries fort about to plower!

april 10. outall day pacing & cearing bods on Cedar Hill Road. Every leturnard a packer (R. Ridley) on prospect of gelling & Leach R of this Stason. Reading Wacher letters & worter 2 Ella. a purday. Tracing Cabeline Specieus, & lugaring about was beach River. Ofurnom Search Coestme. a very five day. Every reading & writing. Cipal 12. Starbet at 10 am. Wolling & Symmout, excusing party old road on the way. all the Mercod in boat clave rods of harbour Relumen & riclona & Stage of Is Ph. Every reading lately specimens VE april 13 wolked & summault got tout, & all day exacuring rods Tharbour, which frell hears redict vi Letter por Home in the stemmen. or food; constored. The Haufray & avoter quetternan indexidents that the loots of a Menundet or Westodon was found on a hear Cedar tile (net Doyles) on the Jurface or a start distance believed at the time gite gold excitement Towe years since hilling; some the one point of some prohis lead?

april . 14. Jord Friday. Many reading cherry paper or plant of Otherwood excurred Rocks of Endge between led as Hell pld, & Dr. Johnies farm. Day pue hot Hosting. Upul. 15. Cerain ranns able hallers. wit Forse & as some work on the Luch an to Cabolaries. Ofterwoon at office looking out traps for Upedition to Leach R. In will of which other winangements. Large wail of newspopers & Str let & Pavama. Every leading hews # 10 april 16. Day wet throughout. Reading d writing. Heroon for a walk, The Leach R, a attending to the honners about lows. Plus conting rig feel notes. Wey parking, writing & reading. day free but Cool .



Upril 23 Left Sooke with lur Swifer about 9 am. driving to "Lawrences" at Junchen y Happy Valley Rd. there walking let down, arriver at 3 Rlu. Found raums letters & Telepian pour hu belays requiring we to remain in Miltoria tite amended instructions for deasons work reach person in desirent Lymail. Reading Vi. april 24 hunday at Marce arranging Specimens + 5 W. Russell Paine up by Stawer this Mearning & occupied west of ofwirm. Le "The House" for a little while. They reading. april 25 Hard at warte all day writing up letes & blotting warte. Iscornel ku errasi in te tracing Sopplied by Lands Lwarles Office, of Leach & While has here confusing we a good deal. Every Mading, pressing plants Va. april 26. atwork on notes & account of feach R. Ivery reading of work to lun Llaryn. ap 27. hora, on tuneuns about lown. Jaw Capt of Vi I Ru. at & about Sopumalt with Russel defining the eye of Lutinaire mars Letter from How & Frz. & Rading, freezing plants des Rumbha & Bouch S.F. \$ 34,00 a Kry five day, warma summer leste

april 28 out-all day seblofishing accorpany by W. Russell. At- adar Hell & lasdova Bay. Very pire day. Svery plants, at-library & April 29 Auticle de fologorine at Cadboro Ba.

The Deer frue with one or lits Howers.

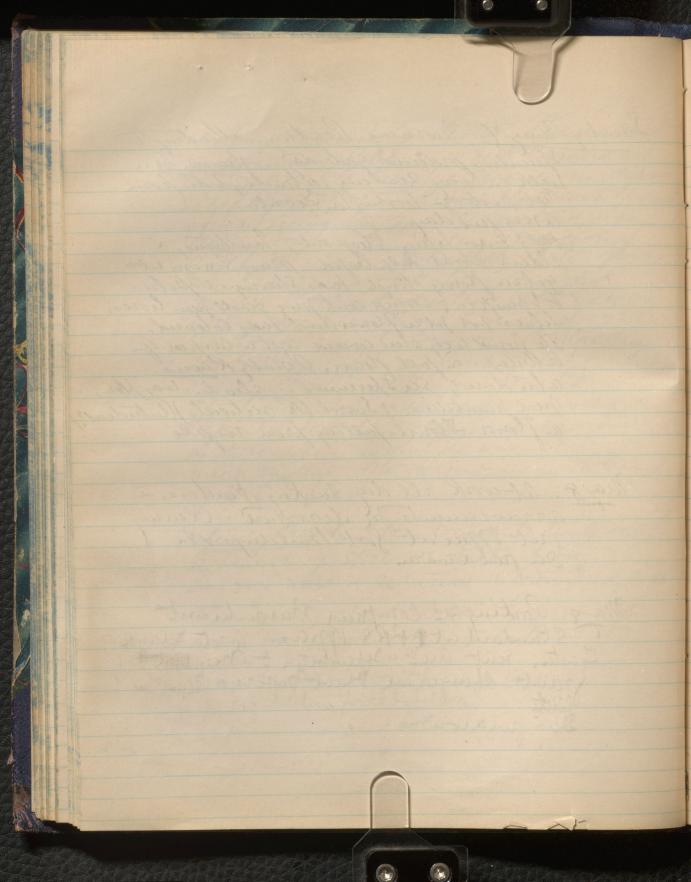
String reading writing up was a washing specimiens. regulation wich advanced during to test few days. higher in full flower with leares well out, wild foreterries alwat Dost flowering, woods garciduous trus Jenetal freen light. Lulips in full flower Fruit hus hi flower. long in rich ground. april 30 Sunda, Morny reading arranging wounds. hour week & reading. a par dunner like day. May 1. out all day Geologising. Wede the Circul of Mut. Toline by the road. Evening reading a writing up volis. Large flyth of Craws possing northward. Man 2. outall day feologissing on Saanich & Thurside Roads. Some went down & Someth on arrivel ysteamer. Saw Country on Reading. In a reg frie day.

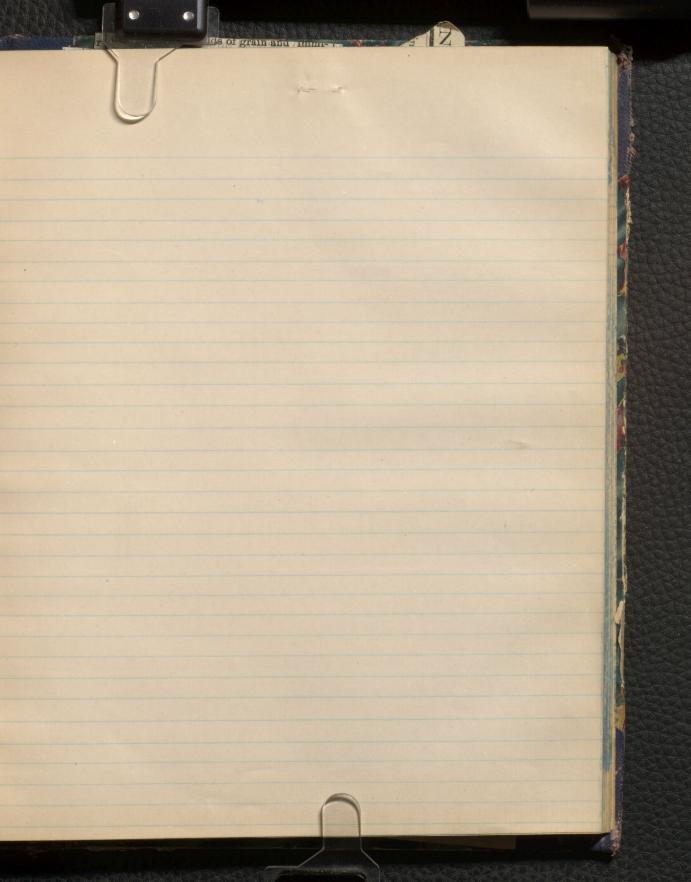
May 3. Called a certy & got letter pour lus Selwyn puhich tag frings telepaphic advice. Changed fore of operations a Mainland in Confordat to Mul Lands heur. Prairies phiter details pour wantiel. To depend In transport & Supplies on C.R.R.S. Within up note a weeking up accounts? at office & about lown blevdy & voras wellets my recase heursopers arrived ? day pour but overcent a chely. hay of Thing allerdy & Prisus howers [welters & Saw Our Cambie about Plans of Cooperation during the Junuar Land worments of parties, & dealities for afternoon, got books went with Russel up the laren tecamine rocks there Day unstited cloudy astorvery. May 5. at office Dacking up a arranging walters. Making but - accounts & Statement y expendition to may 1. The "Calipund" left this Coming for the horth stockeen a Cassiar the other" leaves tomorrow recoming at & lim The two Steamers probable Carryan over

Leto luvers a others and prile themes

WW Russell Goves of the other. Genous seene on departure of Colejoura, Geck Crowded with Stopes quebriation. Whart Hack with theuse a otherst Leeing her of then on board Singer Some a dayorns operation Lower duck Packed light gut males a Cattle a every unch y doon long enough the stown on ("Spotha" for a fed & some one, to plan hen to lack up a playing Card with thousehs The Sleaver Foreger Stomefully overcrowded, & Sould not Love Lew allowed to legre part he the Condition in which she was Noply all love a predant Mer do count as in the love gre O actic. Solunda May 6. Went with St Welken Dog der wet a returned blown Brell was Aruched at about 3 pm. Coopers at Shool Lay Kud worgh to coll us to fran reading & making up accounts.

Lunday May I horning Reading, allenday & Spenners proteined gesterday, fleworn for a welk . Svey reading attacking lides from not pist of working to Erritary. toks bow fegure Elect out, toutarns, X alders about they leoped power lower with Jelaes Vol Jet in Hower thank that Coloured, The found were when covered with a Carped of butterlaps in foll plaver. Outolg Racris who in troy blows quel prantities of Sarrel (R. acetsella Mentroducas) in flower . Flowers falling from reapple May 8. at work all day waken purcheres a arrangements In departure. Cleany out The at fort. Buildings Fra (Maza. Cacking &: Compand Barowles wit Farter Sent acit y schoolditare + May 1. 5.
Stant. Changed all plant papers Read a Day puracram. · 4 1. 1.





WEDNESDAY, 10.

for departure. Saw a Bowman Who Volunters & to wither for the Summer. Arranged betweller conditionally on northing hoppening during intervening him & measuretate Change of plan. Level at Creases, got tack at half post twelvolkauged clother, went on toward Str. Douglass turned in. THURSDAY, 11.

Steamer started about 8 hu. butlay of mount pharbour waiting for some musing even till about q. Steamed all clay, anchoring about survet in departure Bay. Very five weeter . for a few Casts of the law net a Caught a number of small crusts ceaus se.

May. THURSDAY, 18. 1876. Dater & wolder fival anavenents horandeparture. Deer & Sou to pay outstanding bells & Current expenses thip, Ther on mr Selez in for Son Sour Mr Cambie & arranged & meet him on June 17 near Sollivan House , Littidoria Jam. arme New-Westminter & Run. may 19th 1876 cont at may 26-1876 in note BANDAN \$6. 1876

May SATURDAY, 6. 1876.

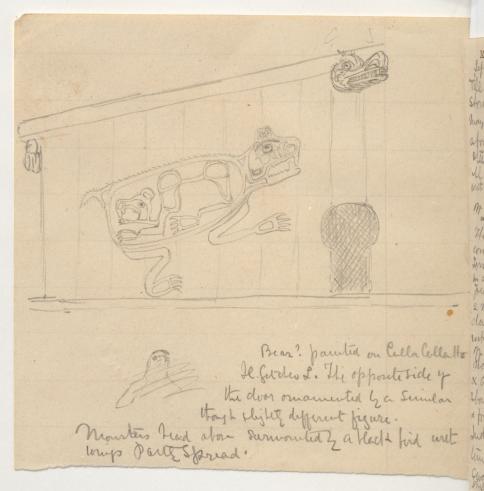
SUNDAY, 7.

MONDAY, 8.

to the net a lambor humber when

MONDAY, 22

TUESDAY, 28



Seft-leparture 12 in 5 Oper, Setemed tile & Dan & anchord in bay on New. Show Chiart Id, Cultiance of Bate Salet. may Equally, Ru, fine, Strong tide races about entrance Bute Julet, making to Strame Ster wild, Islands from Sutil Channel Il bourd very soday, Wilt of anito Carre out sudans Carre along side ofthe an chadown At 3 Alu. Stramed up Brute Sulet, arrivery at Wooddington Harboris Lefor woon. He mountains obox about 3000 ft covered with a pish fall y surv, Forment of little Californite follow pour clifts in all directions, clouds covering he for pecks. All supplies Carried up to Hepot 2 m. up Howalkio, by boot & Canor before clark . Took trip up & Depit ackamined wells near mont SUNDAY It & am but on getting & of many Led week & bea. Luried x anchored in Dlews Har. Phy went on bor unt left movisor. Fet some plants, * trud a Cranes nest wit 2 pers. Indian intrinchment, for some timceles Istotherians of hargens a Ewab overboard on a lead while the

ly un ha ha A TI & So Con Co 0 to the out Left Drews Har larly with strong fair wind. Near Ballinge lds and heavy sea, & Ralf a gale from the S.E. got have graded a few miles & of godd's narrows, & a second on coming to anchor in y anges war. Fort 35 f. bund about 8. Both mud with Ledas 42. Erening Colm & beautifully fine. Whales heard blowing near the years!

TUESDAY, -16.

Left-Gauses Har Jam & arwedot
richona 11 am. Saw Cambie, red letters

+: & decided to start for Eviscolle on
Friday. Trang roop & working propordies

Cog. at Driard Ho. & Led a detroit

Courte & Kennigs.

Busy all day with phipolations to tracing map, meking business Calls. Ielegraphed a Prowman, got invoice of photo, photo expected junes, not leaving from Bown an Carnot engage a man.

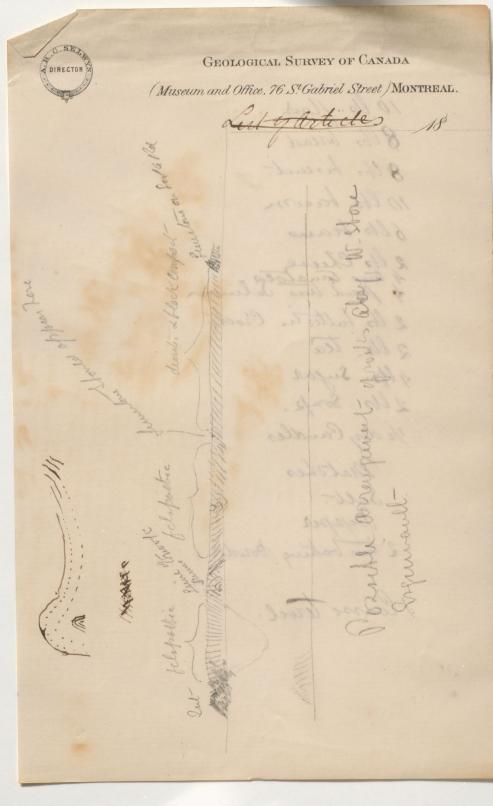




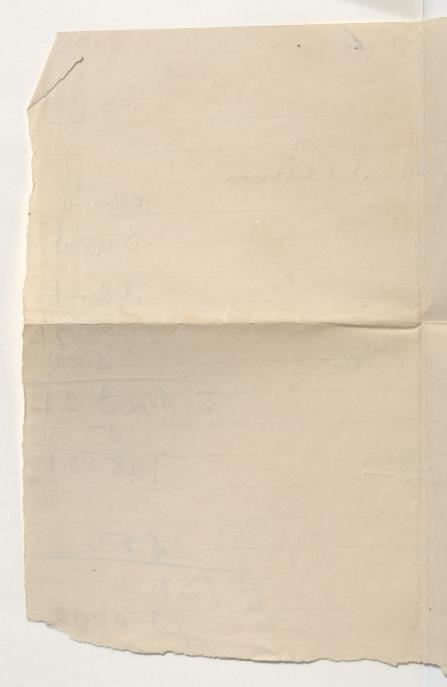
10 lb. flows 8 lbs bread 8 Chs his cuit-10 lbs bacom 6lb teans 2 les Cheere 4 trus touatoes luon 2 lb fulter he Crock 2 lb. tea 4lb. Sugar 2lb Soup. 1/2 day Candles matches Sall-Depper 2 tus baking bowder I Coarse towel.

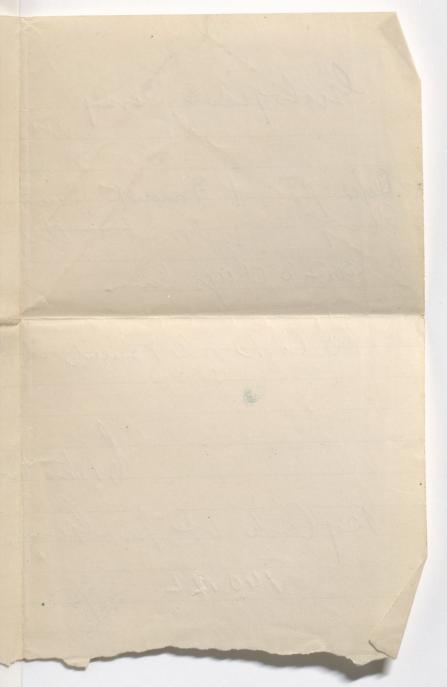
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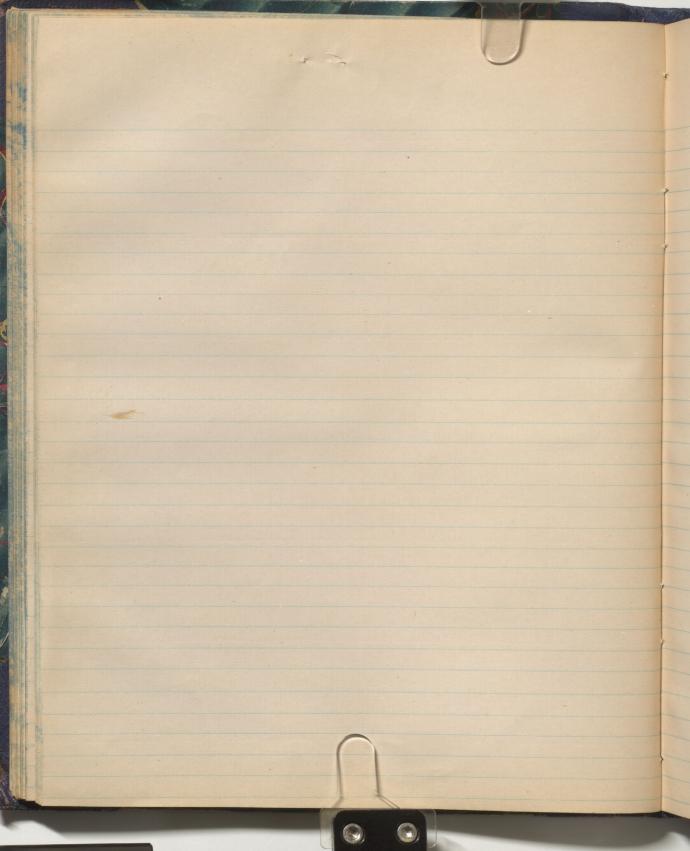
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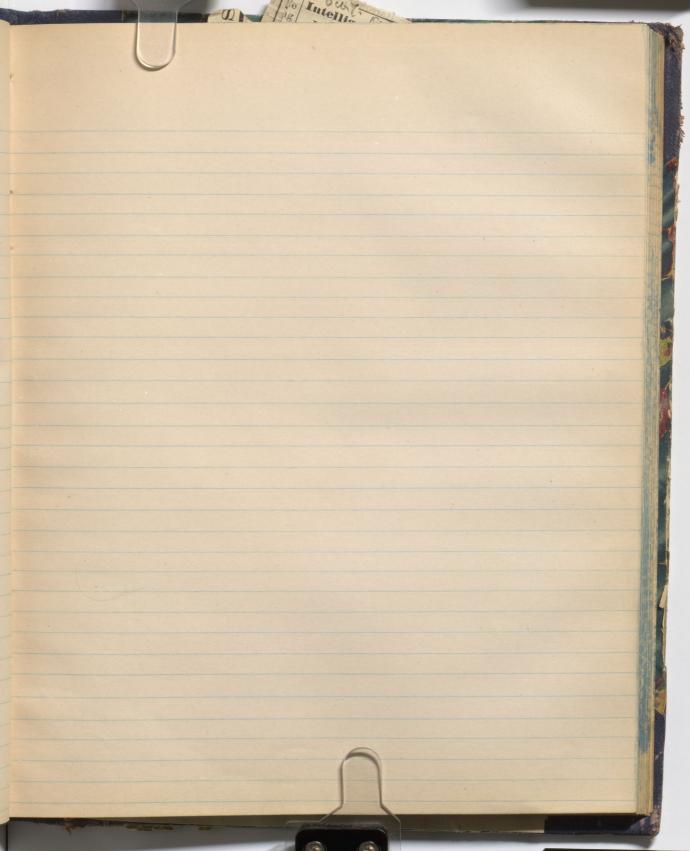


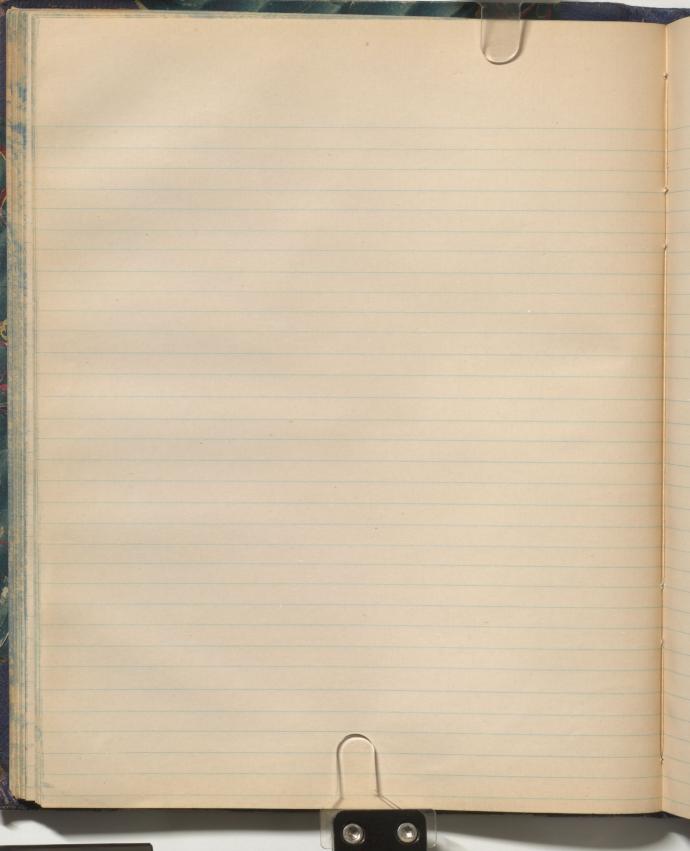
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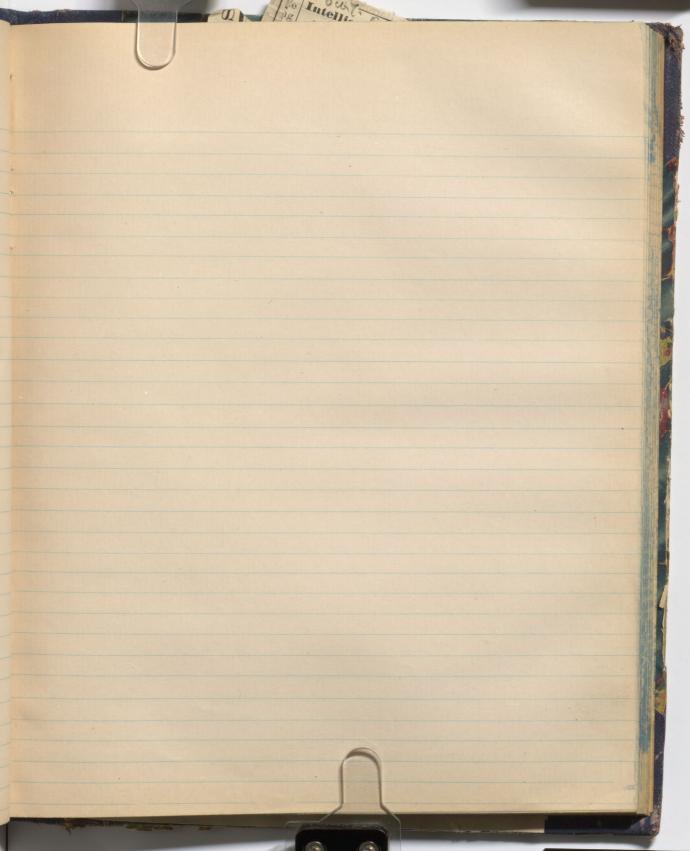


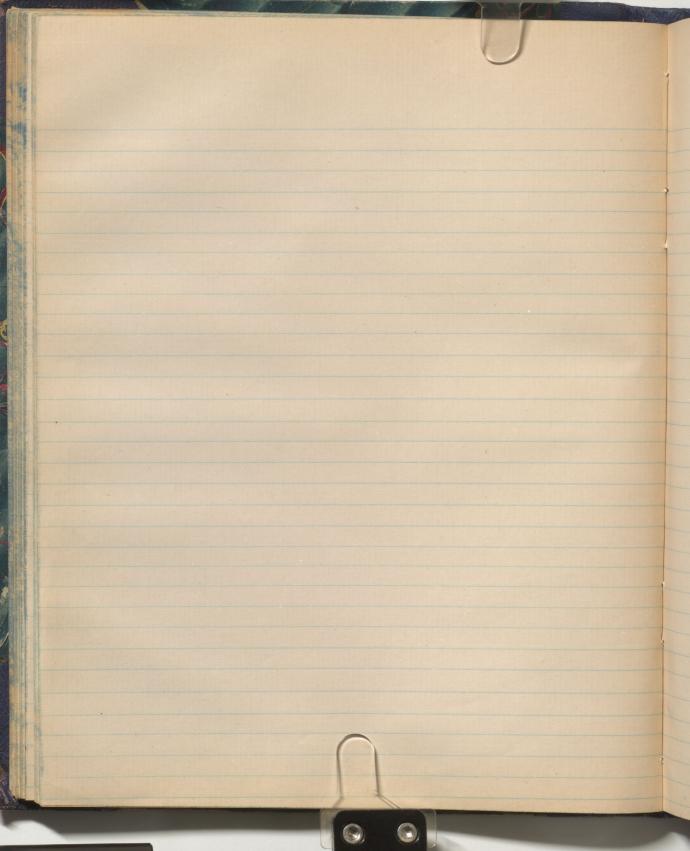


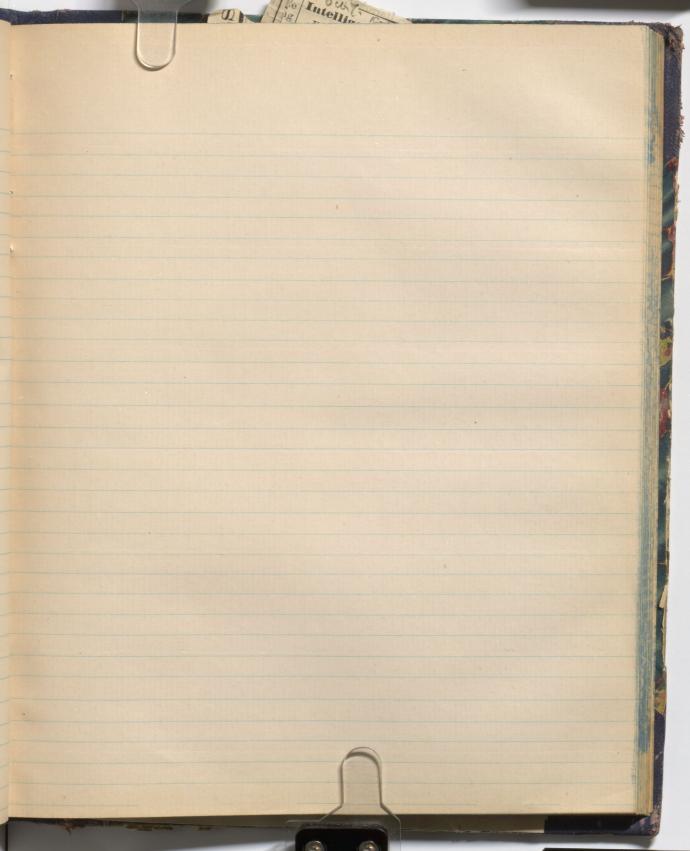


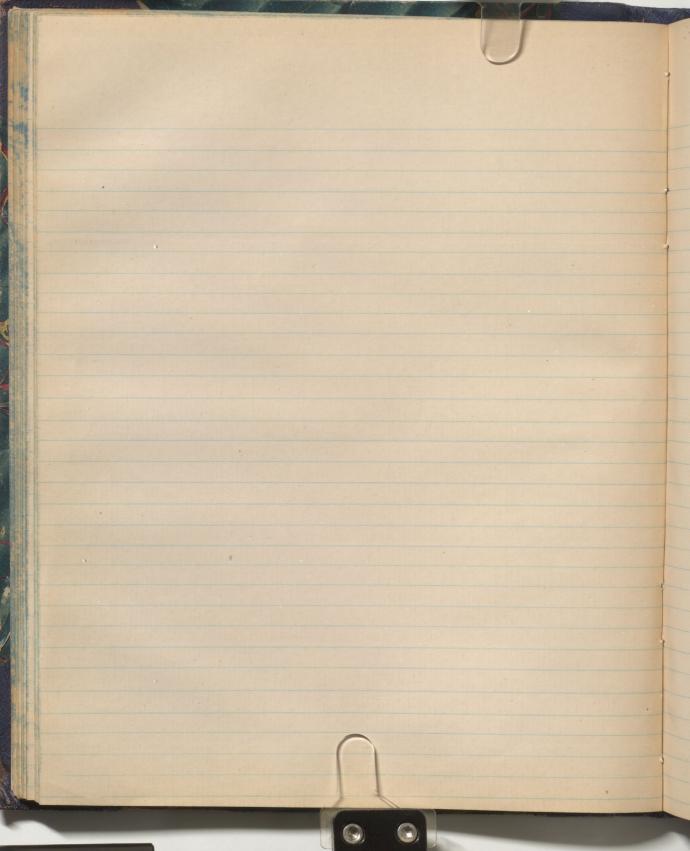


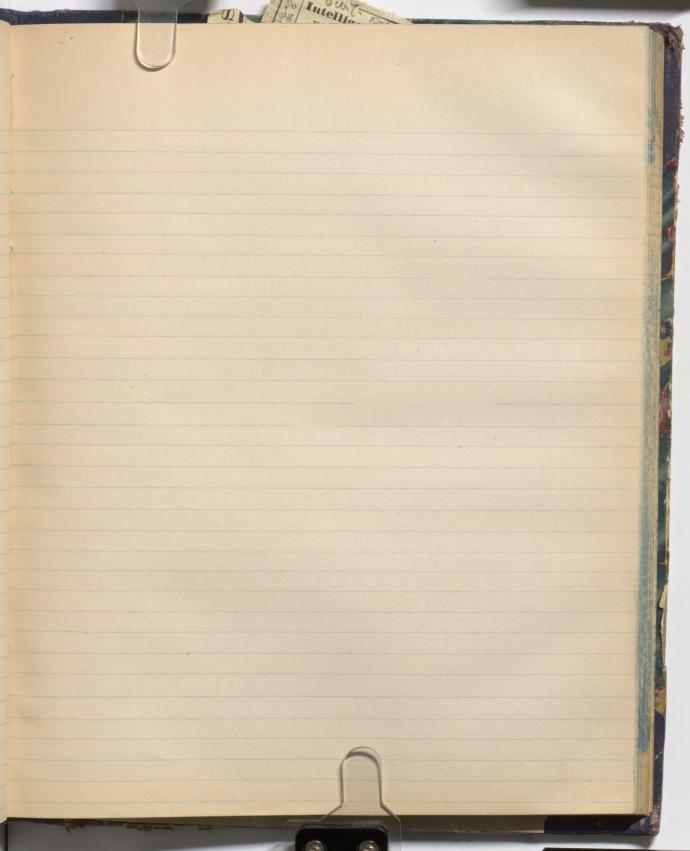


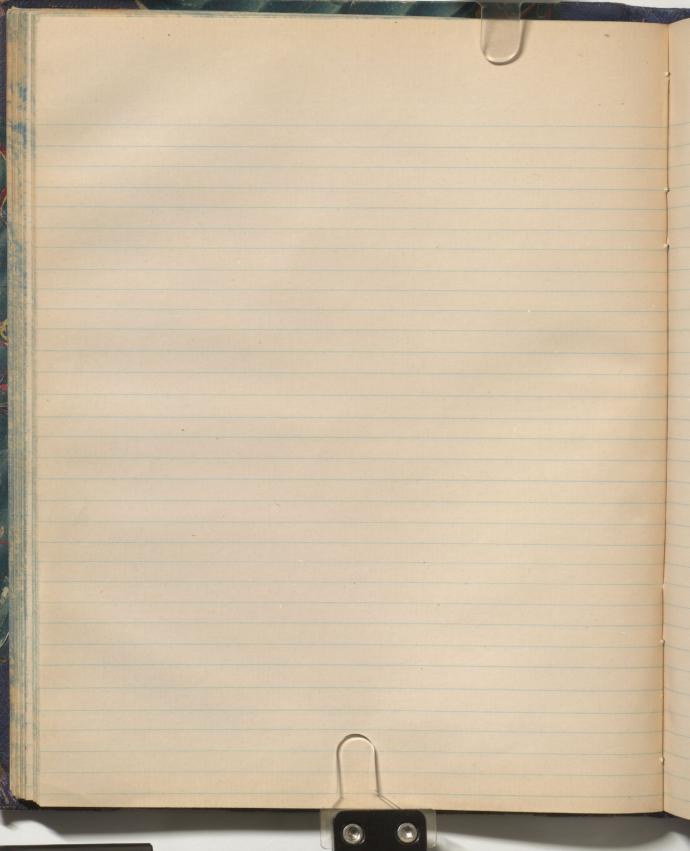


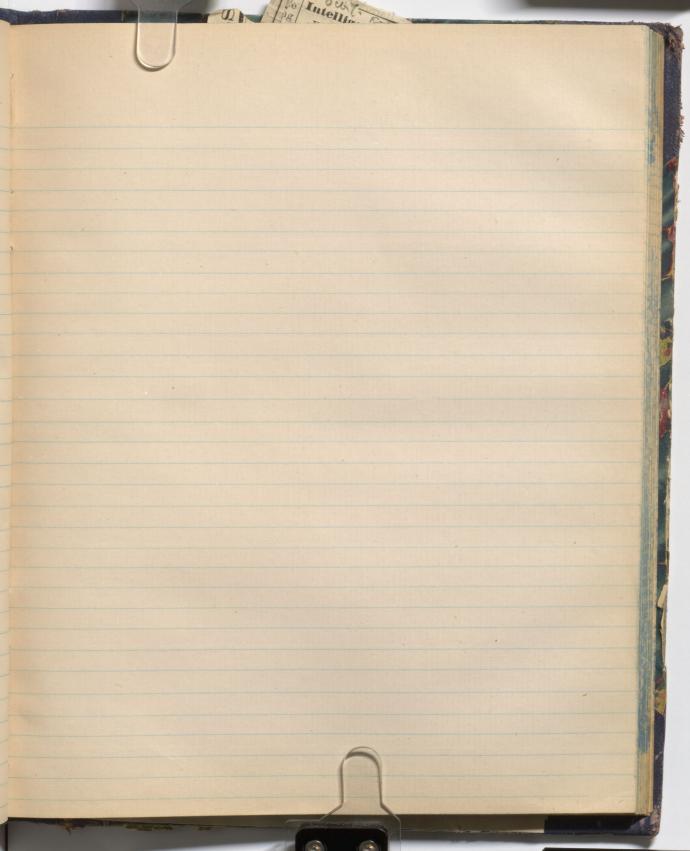


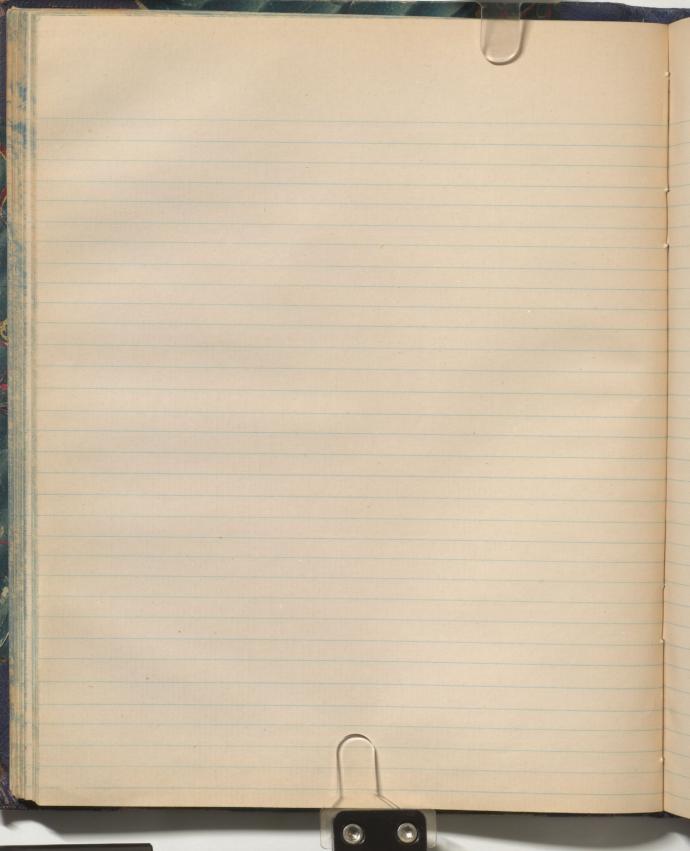


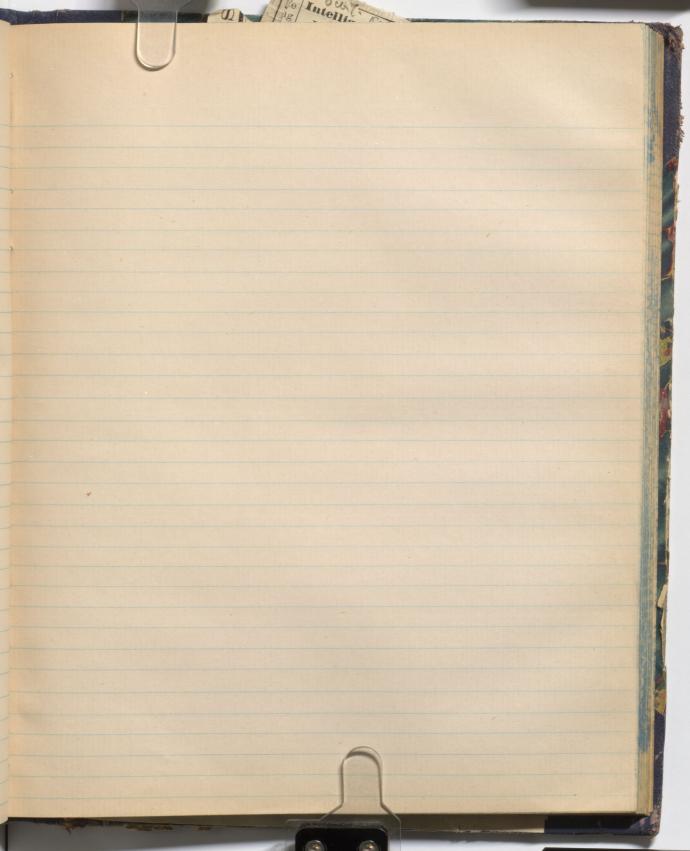


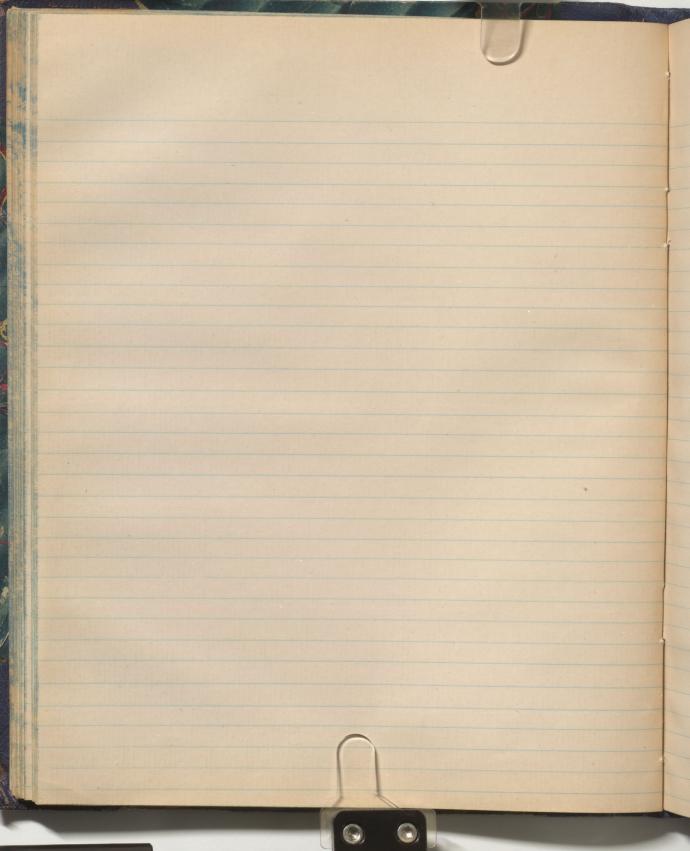


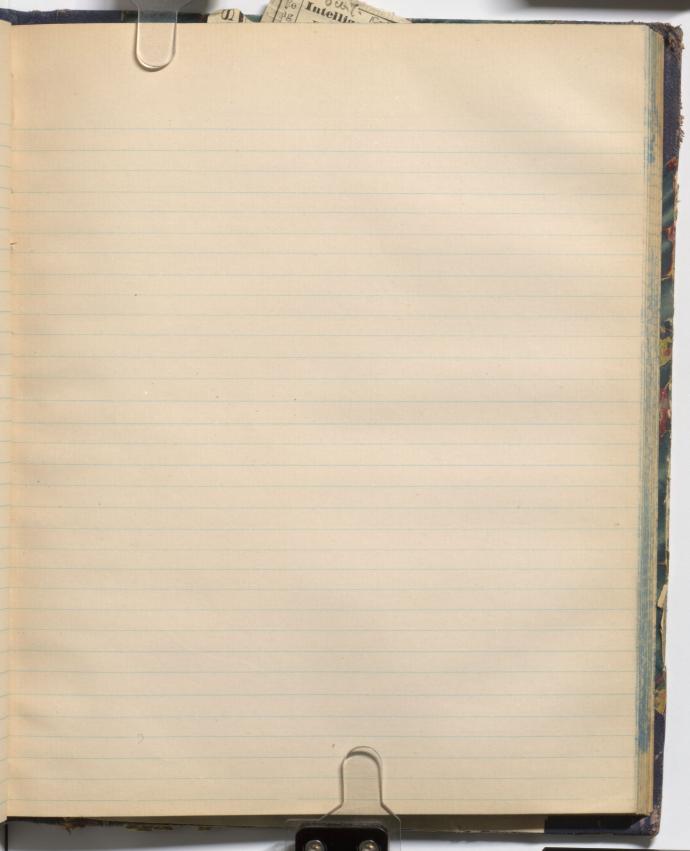


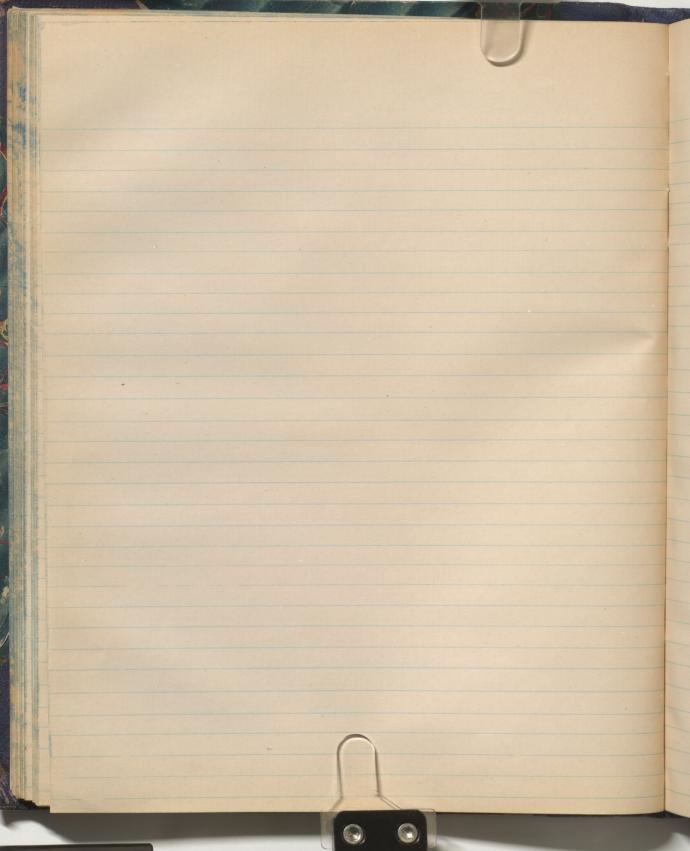


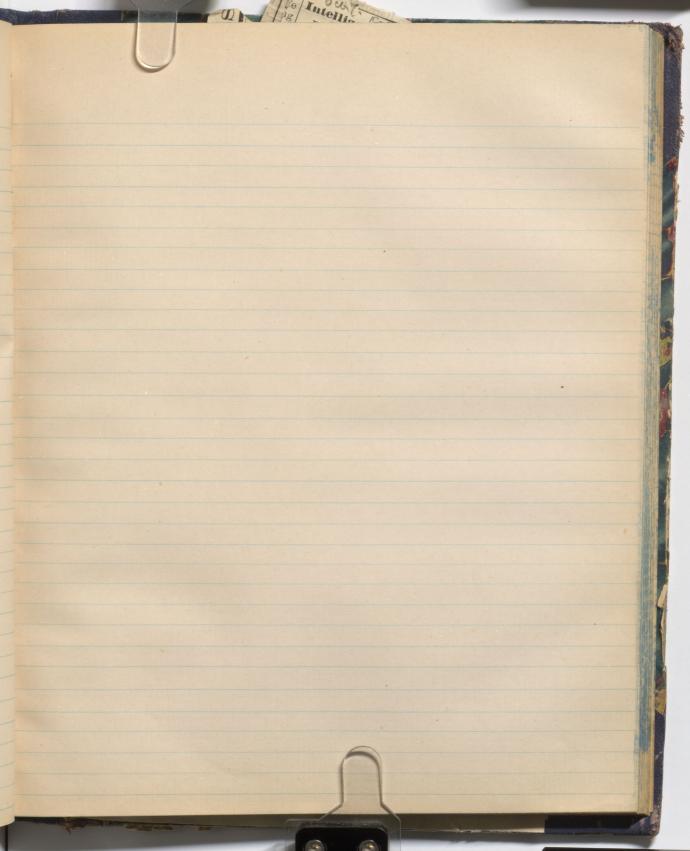


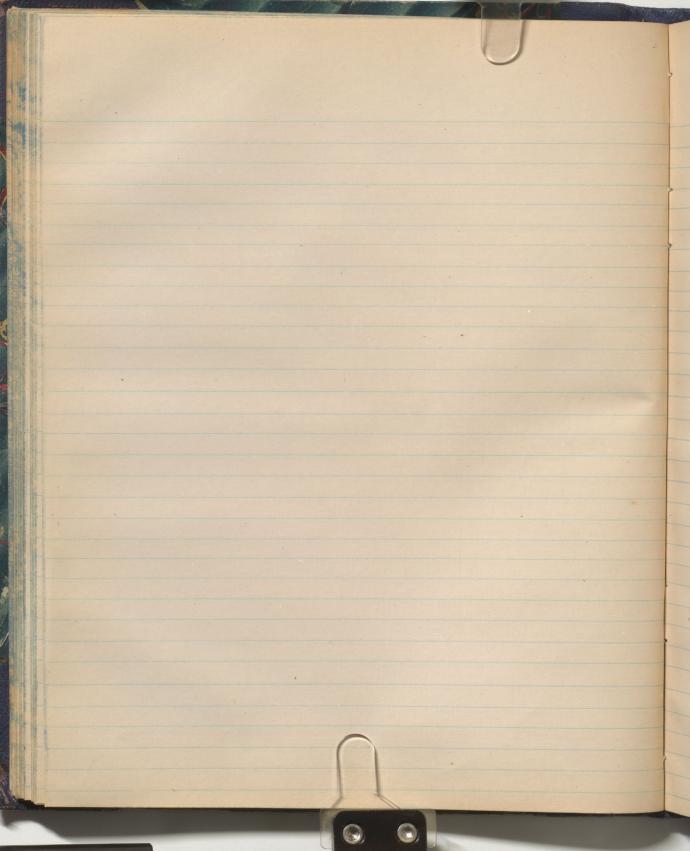


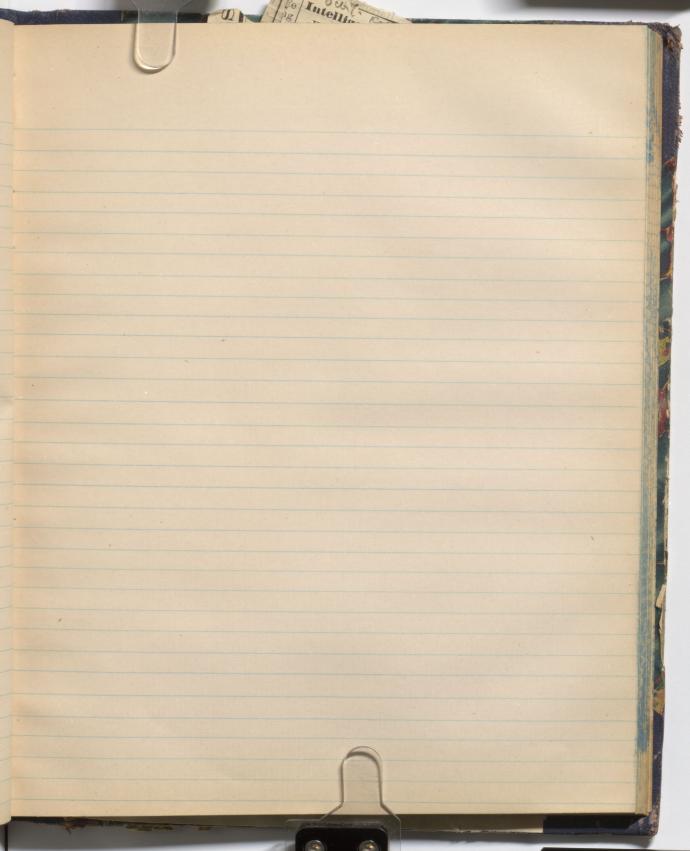


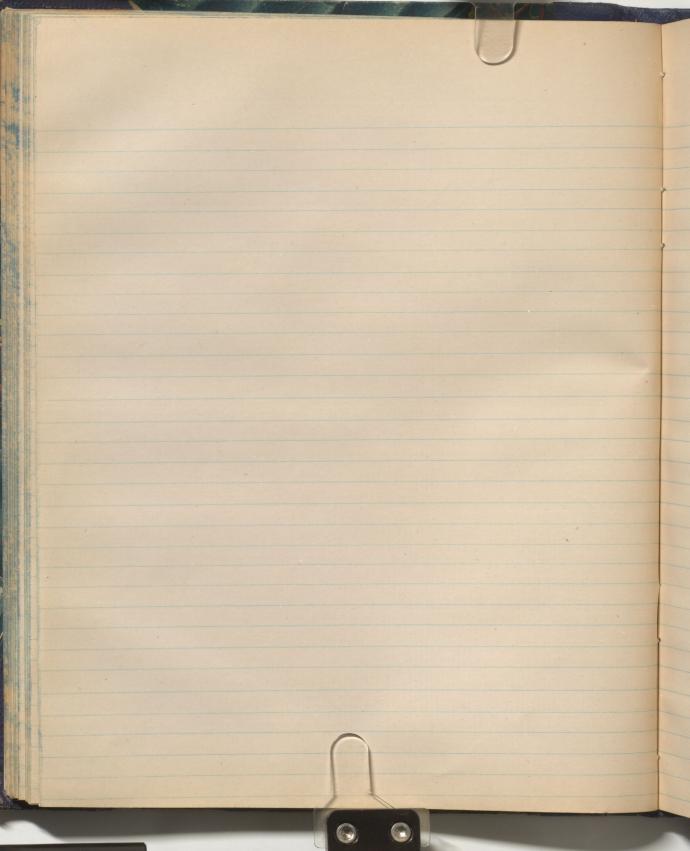


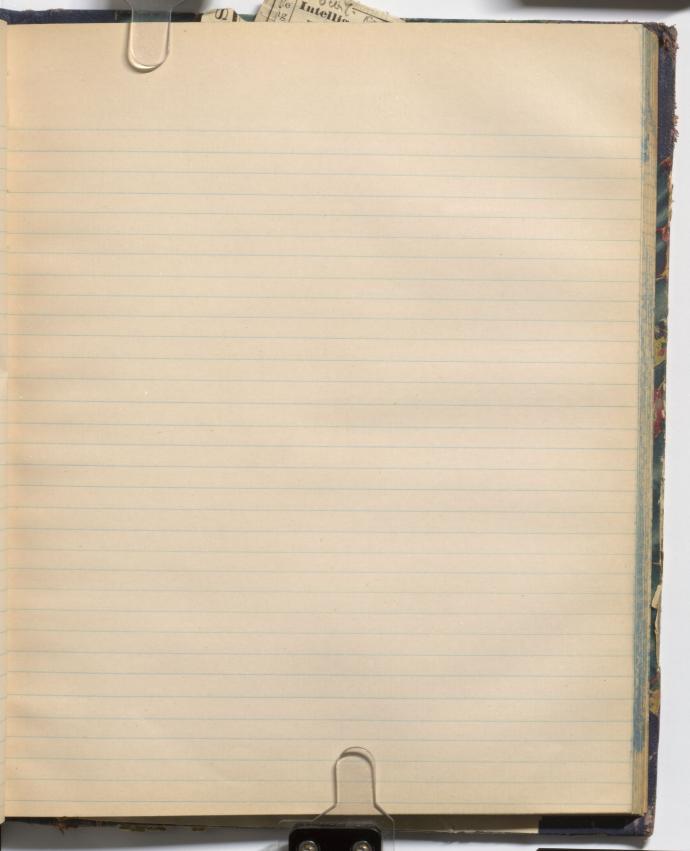


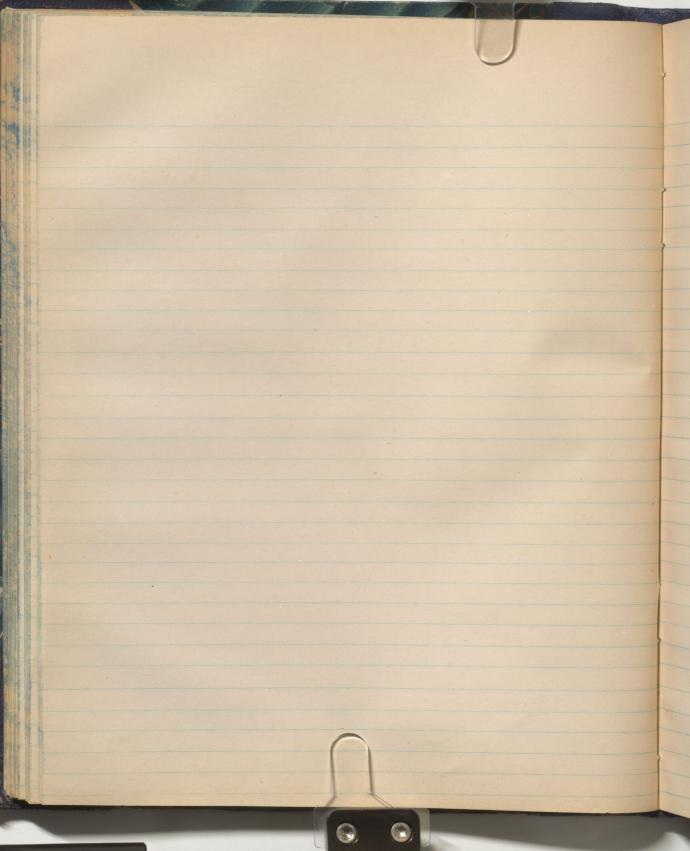


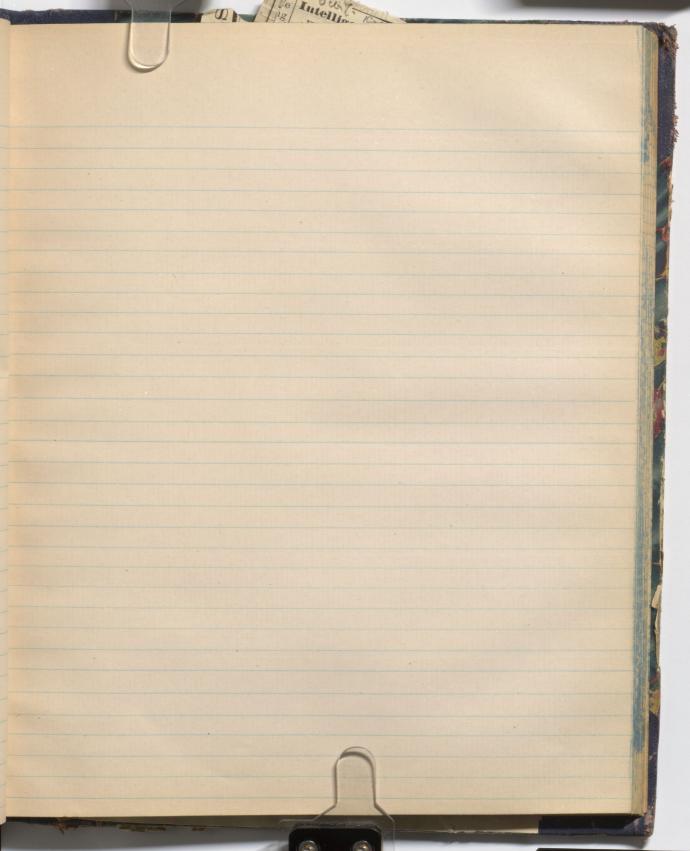


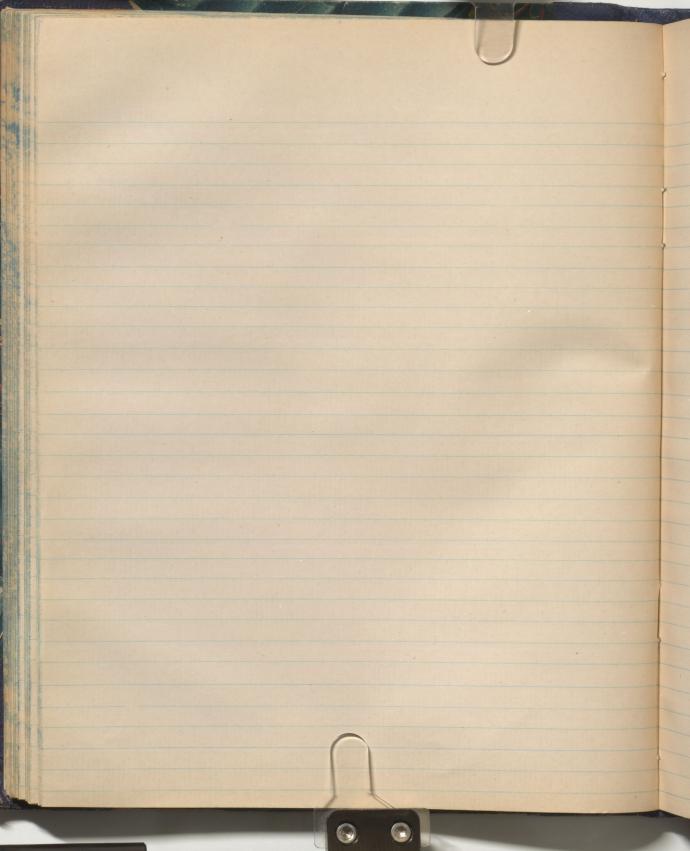


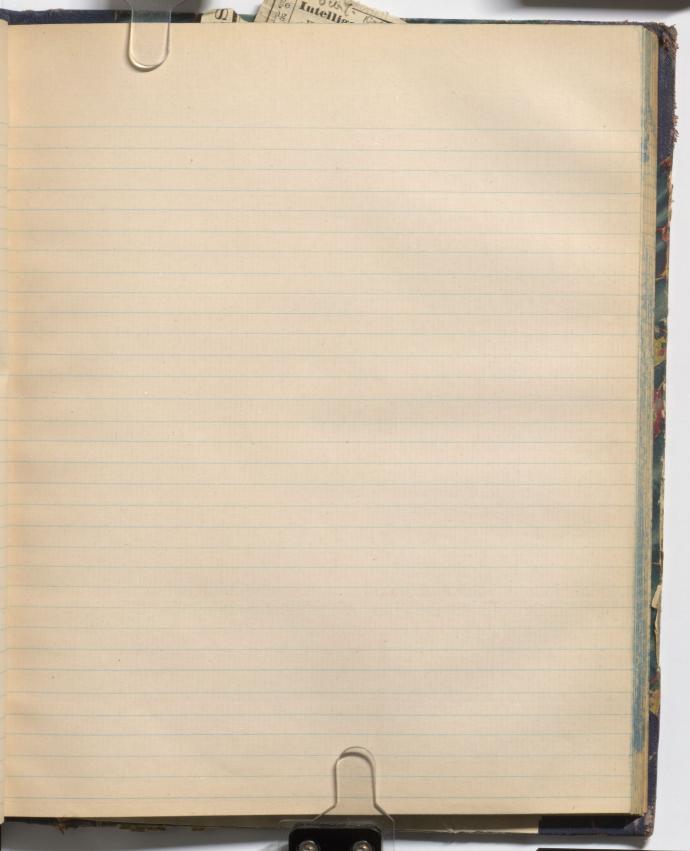


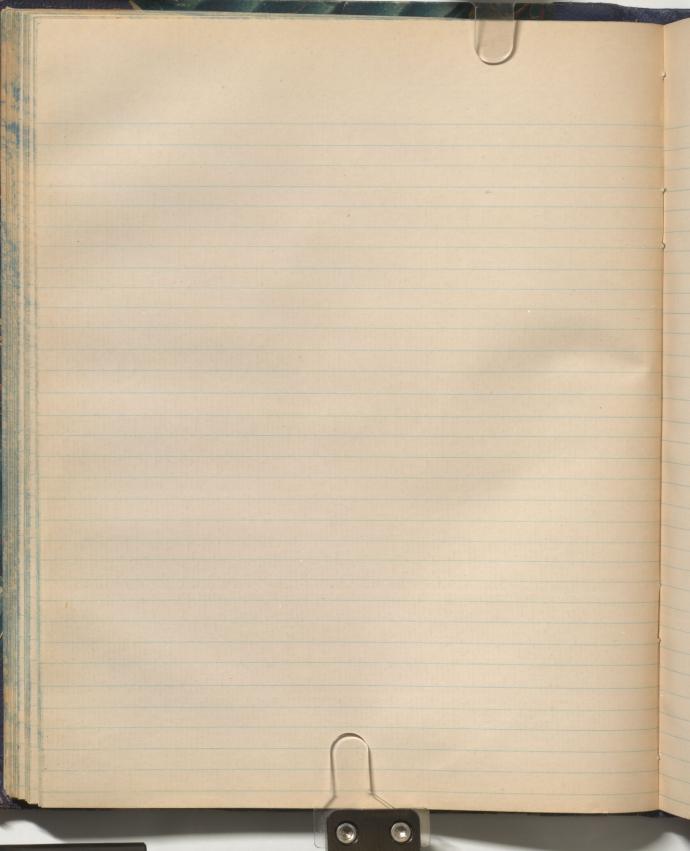


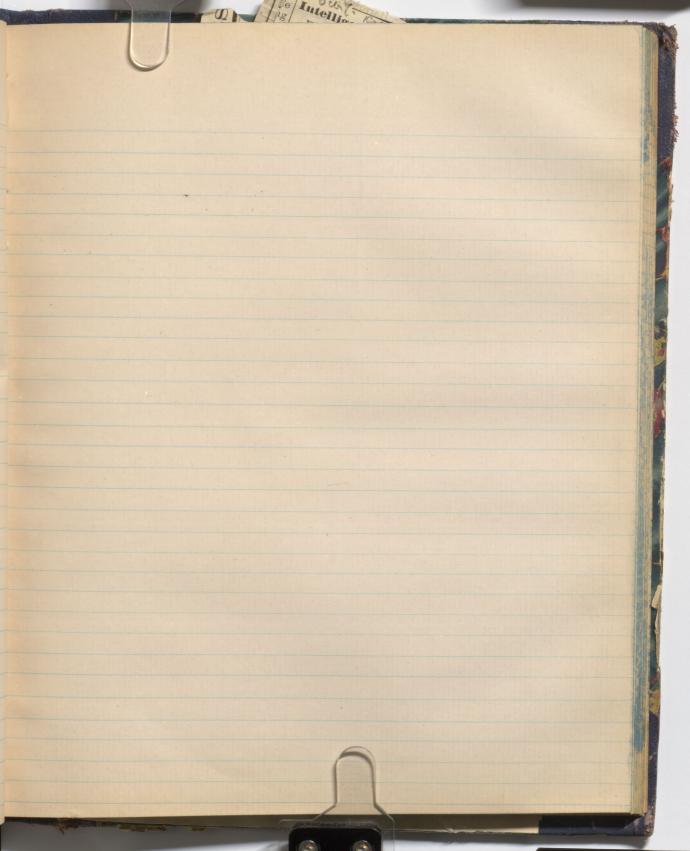


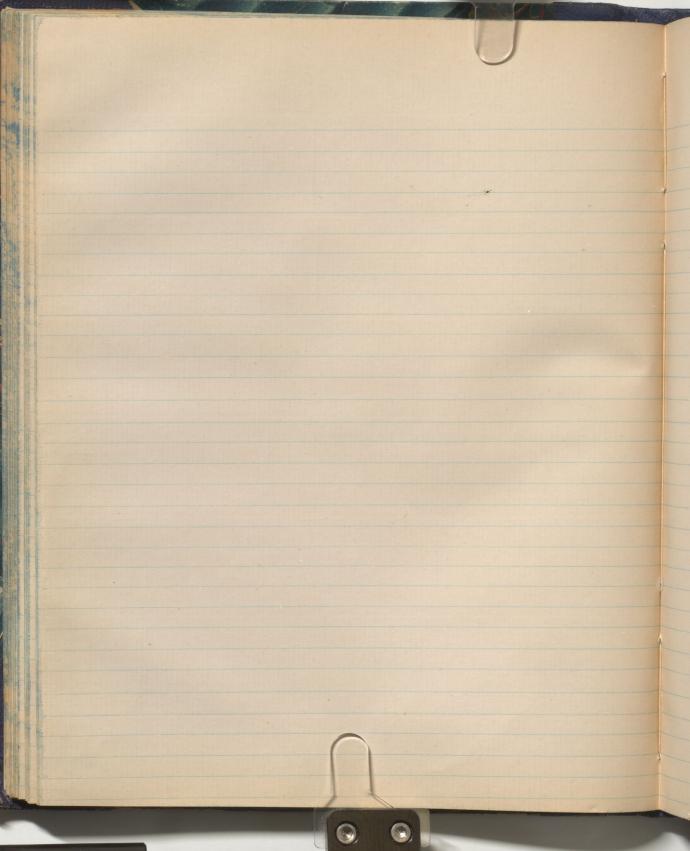


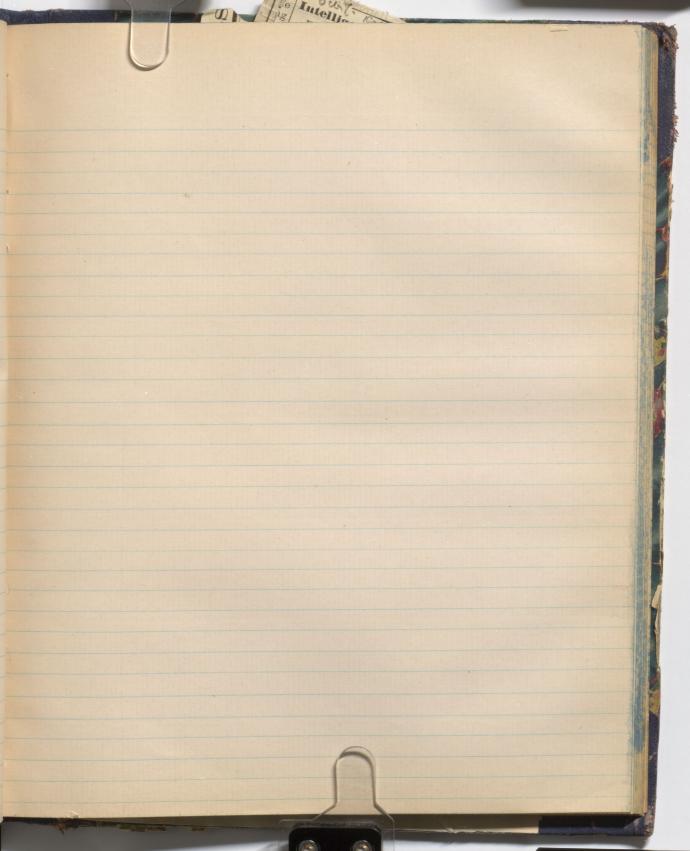


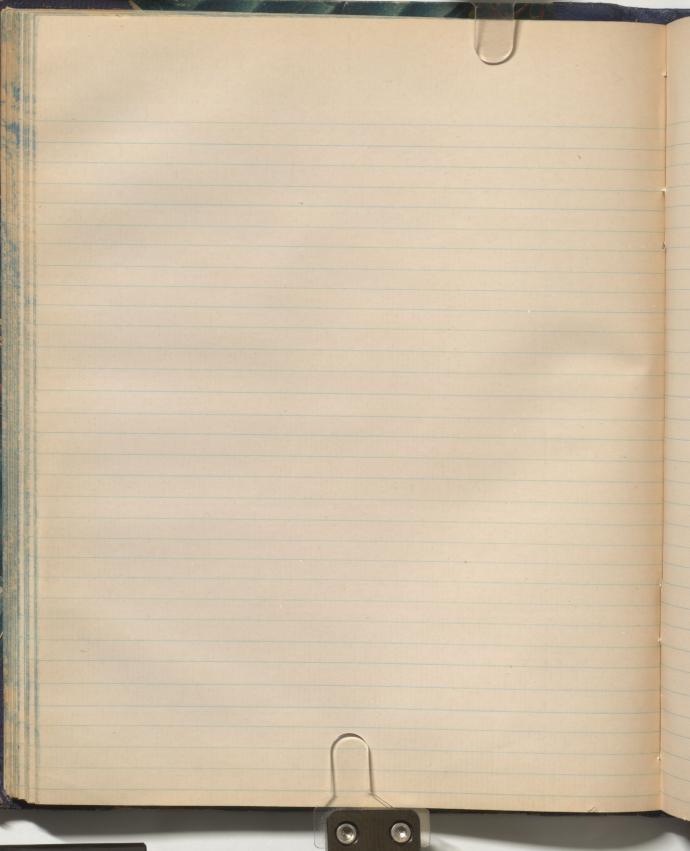


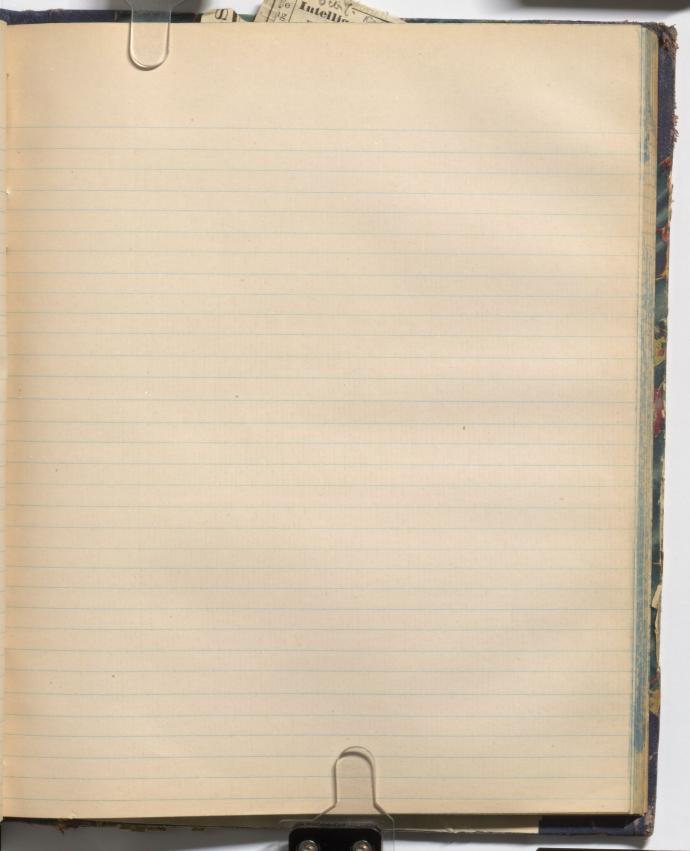


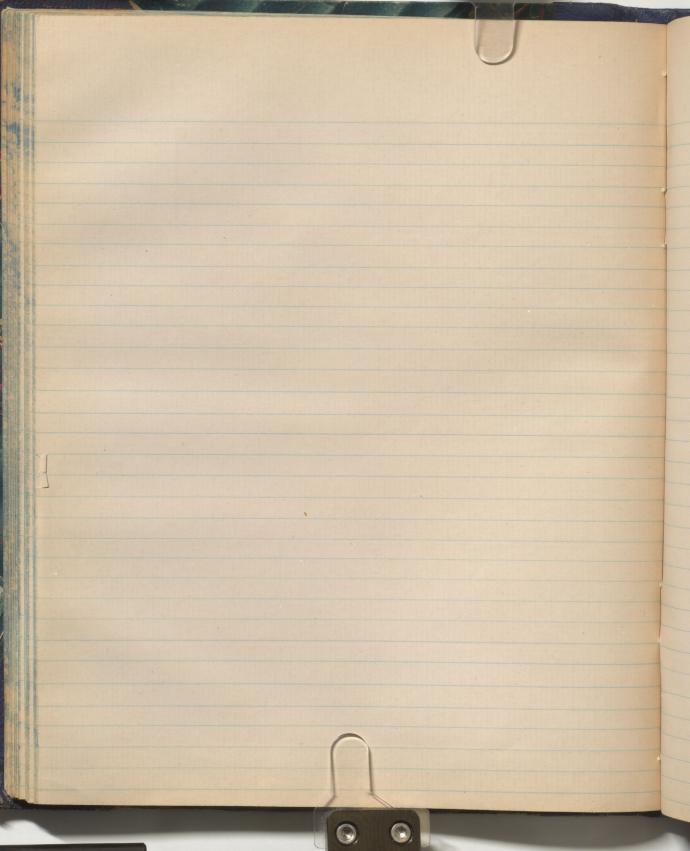


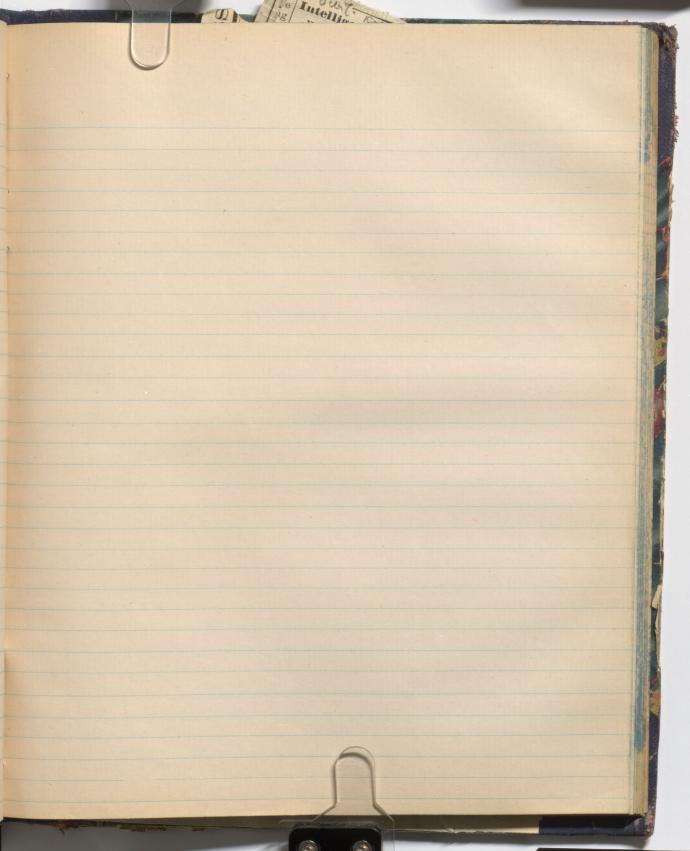


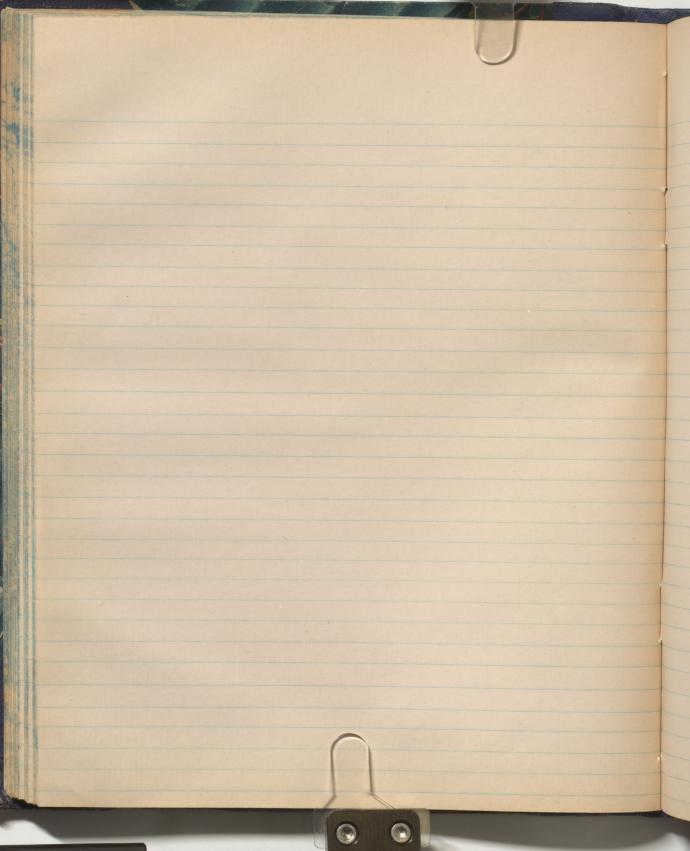


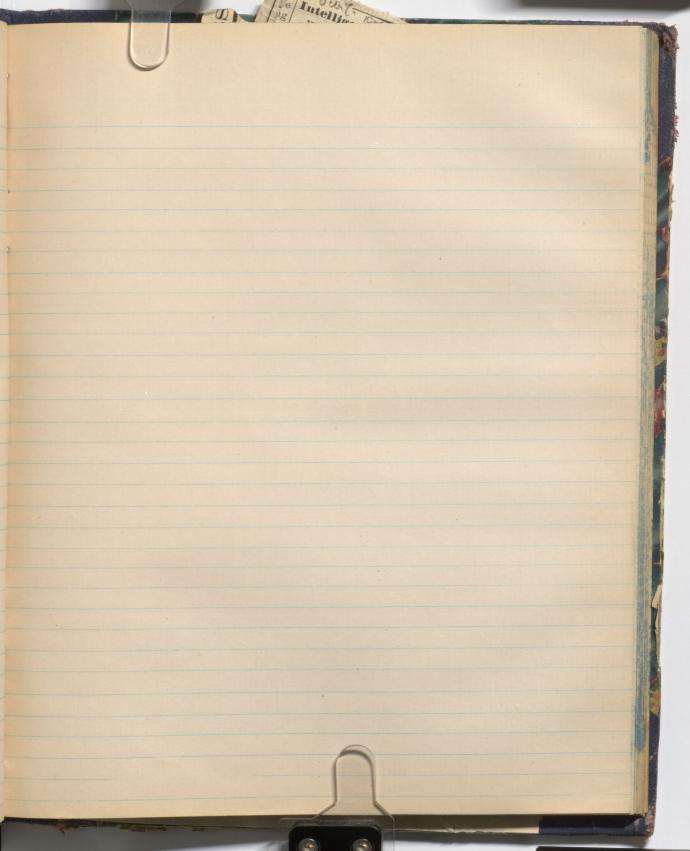


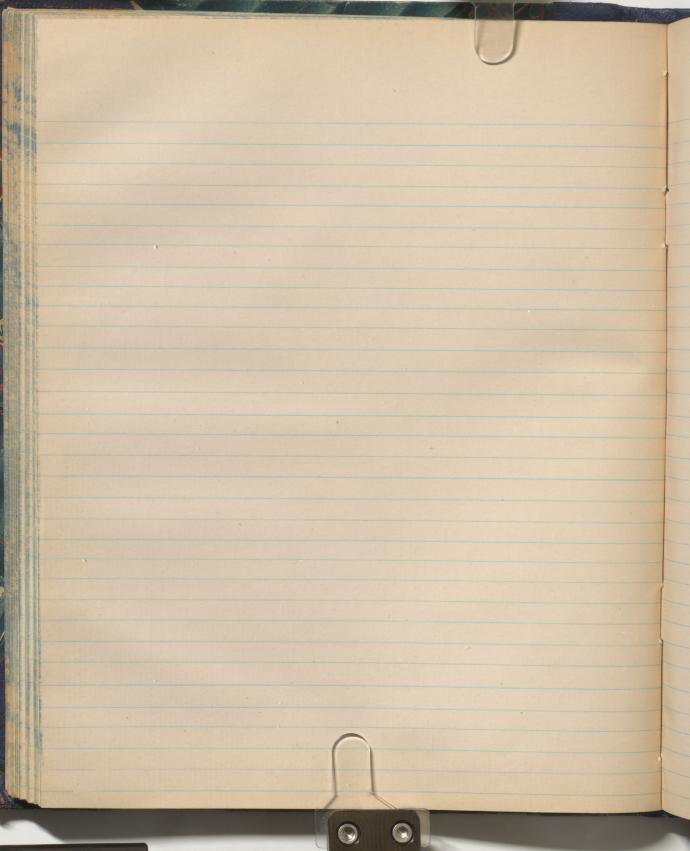


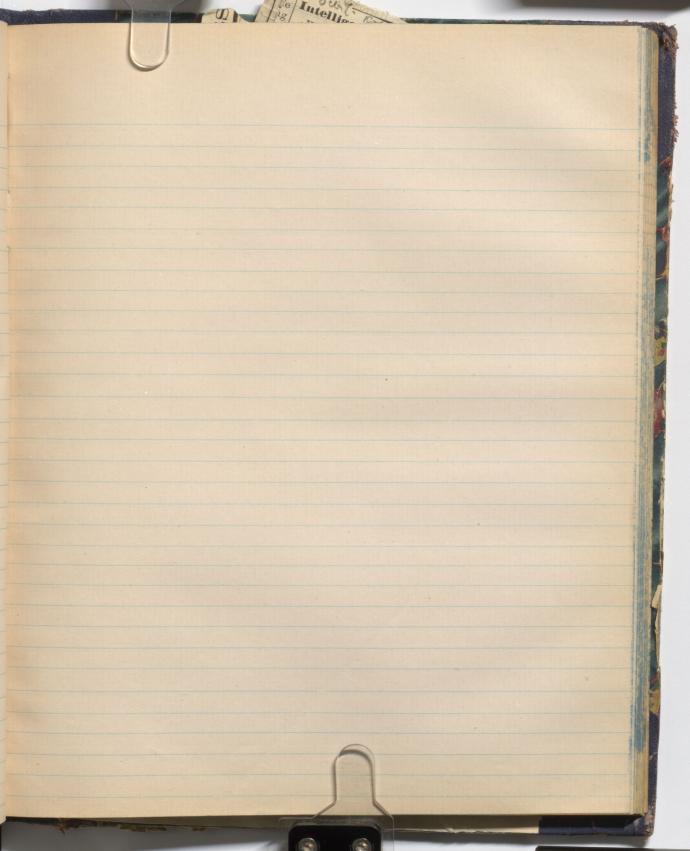


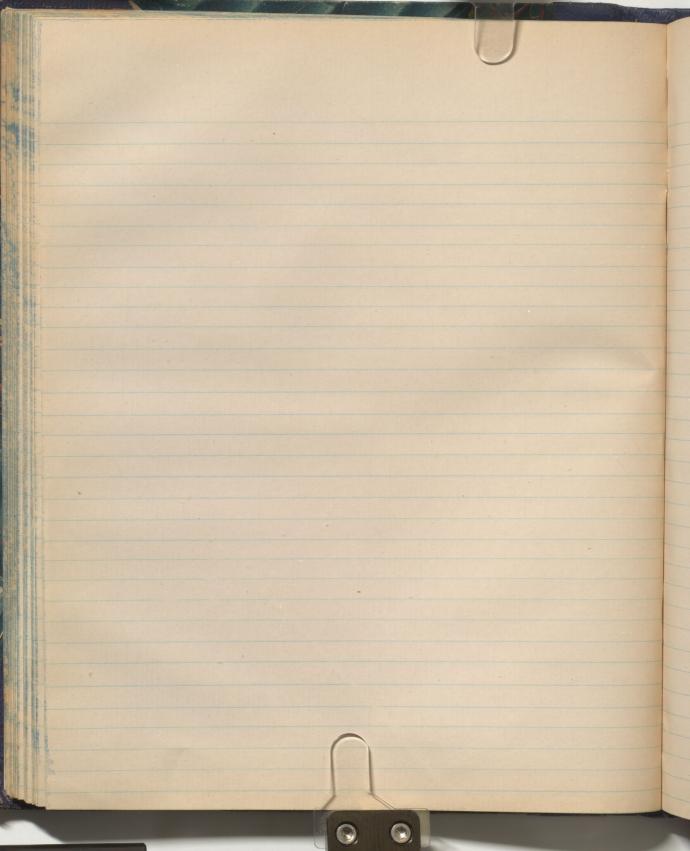


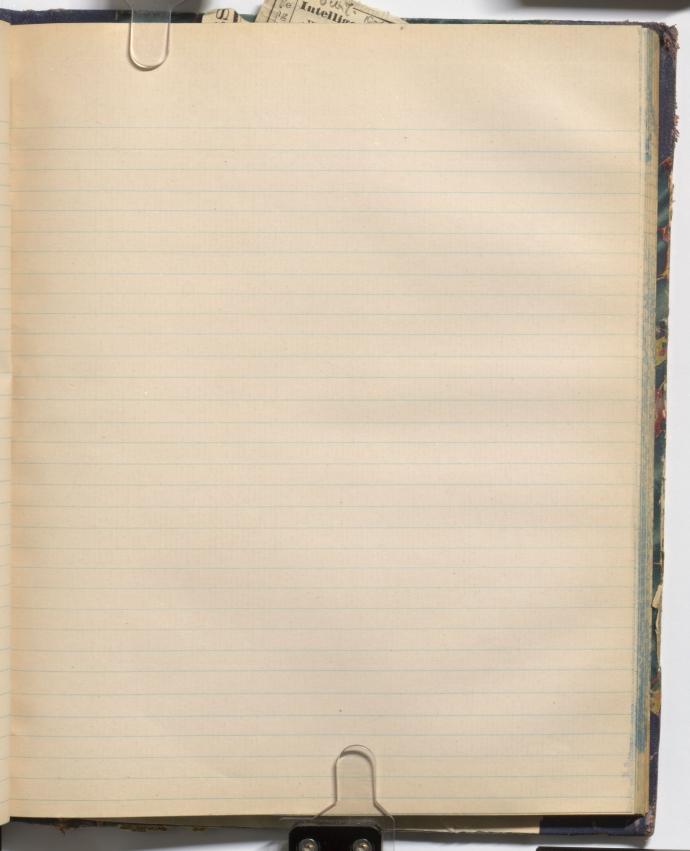


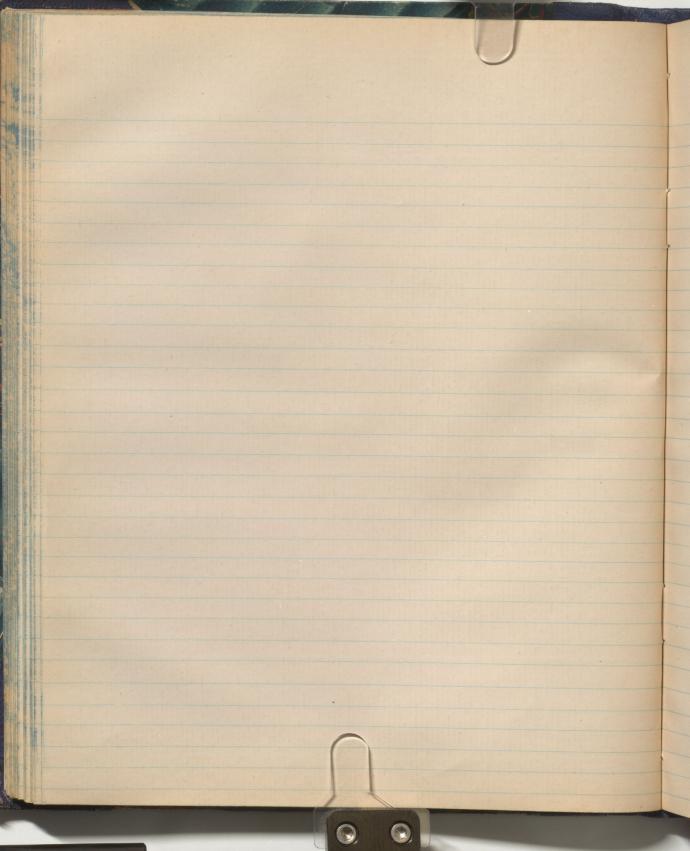


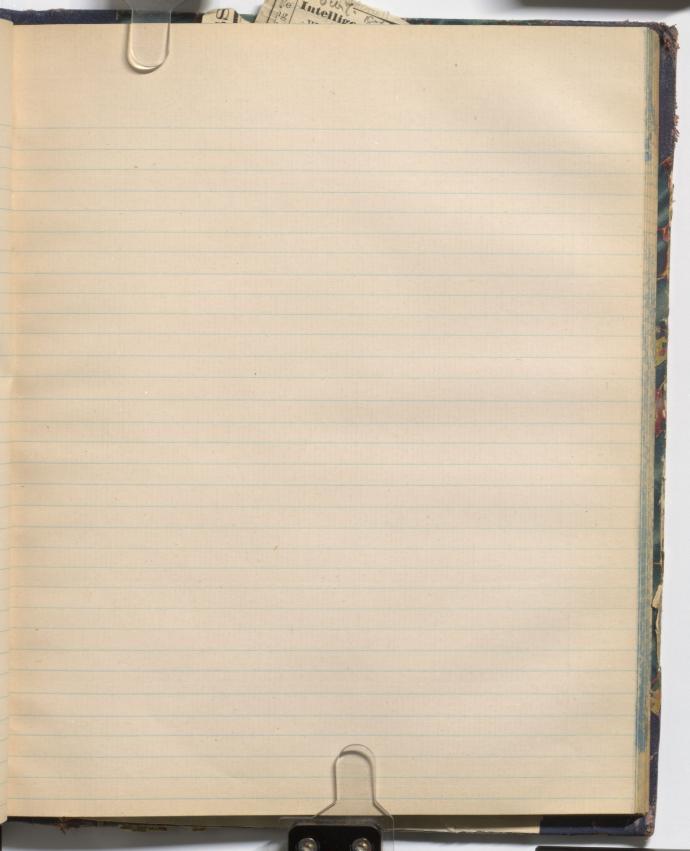


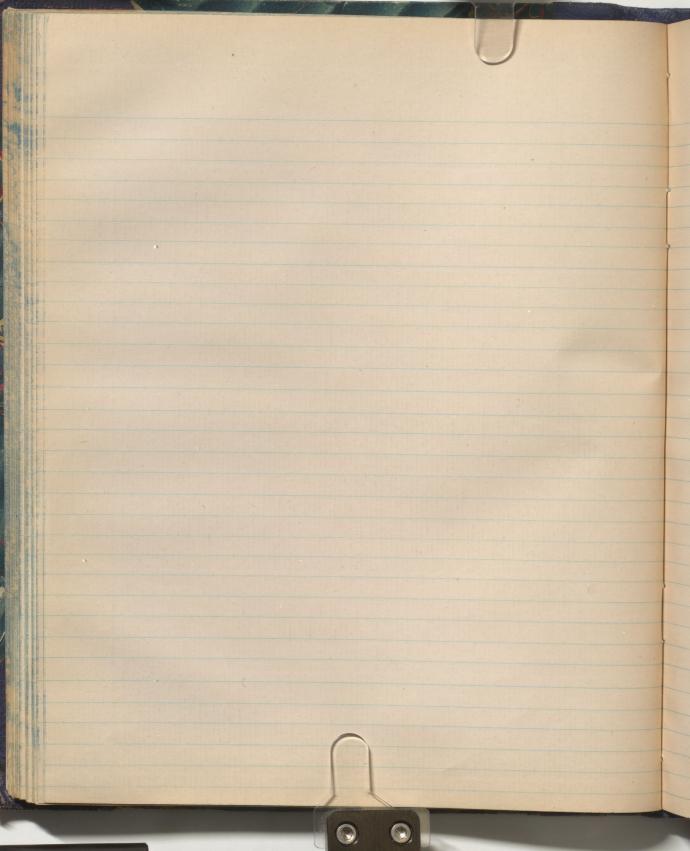


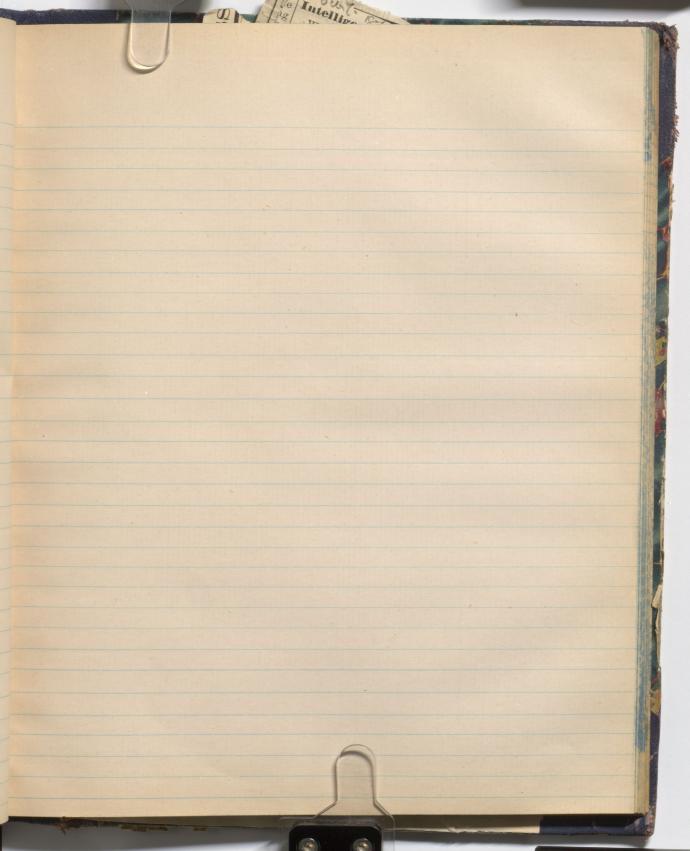


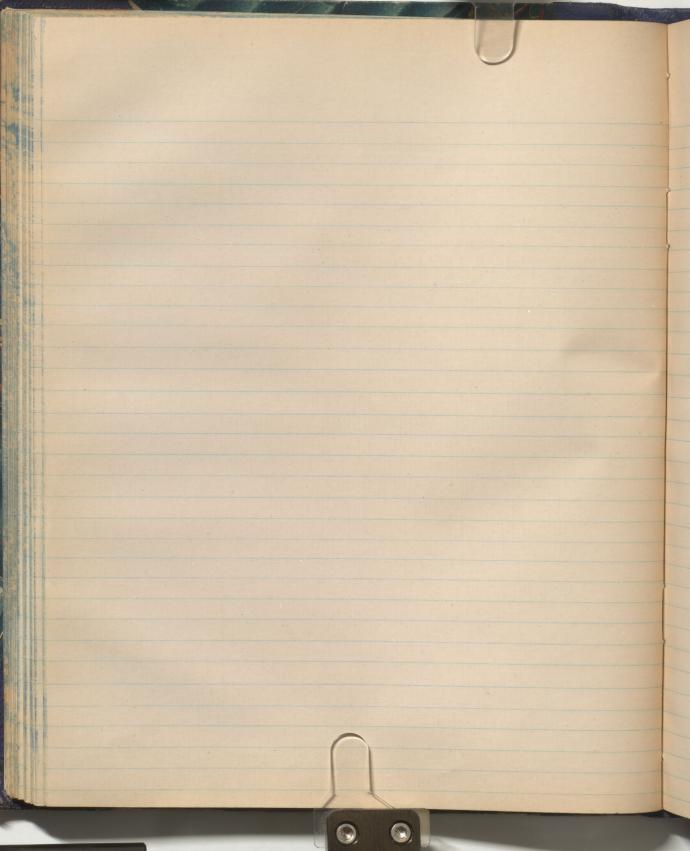


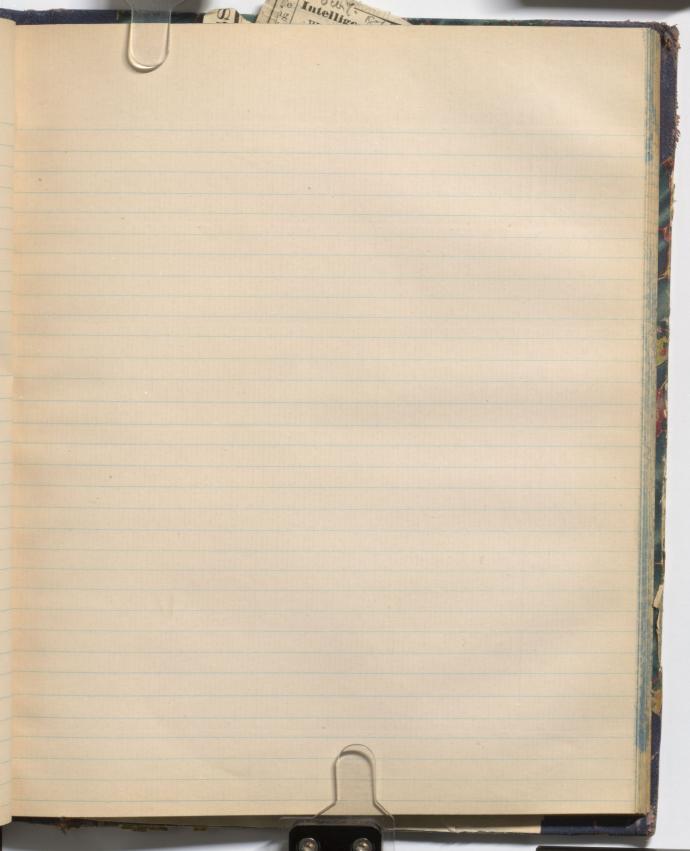


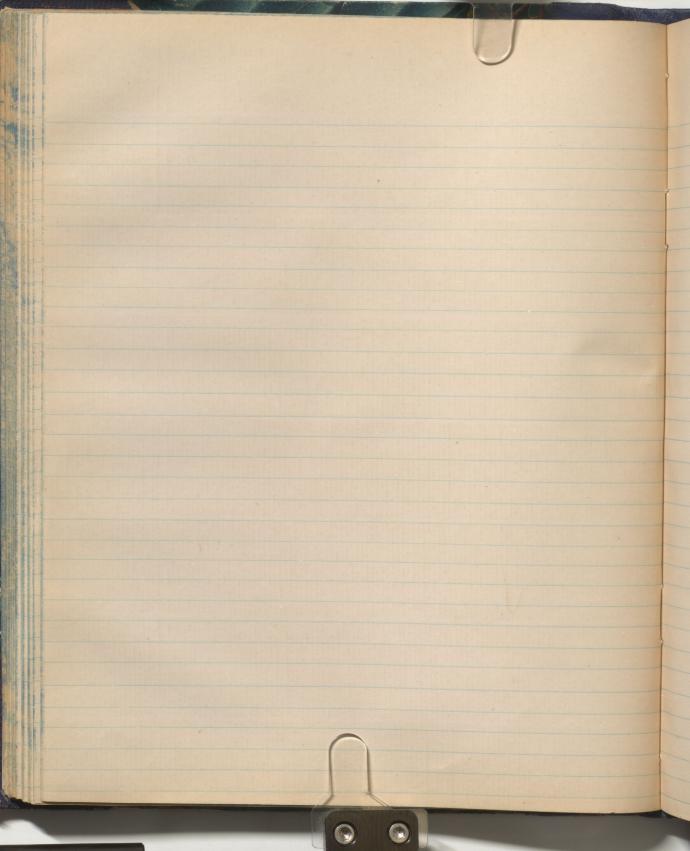


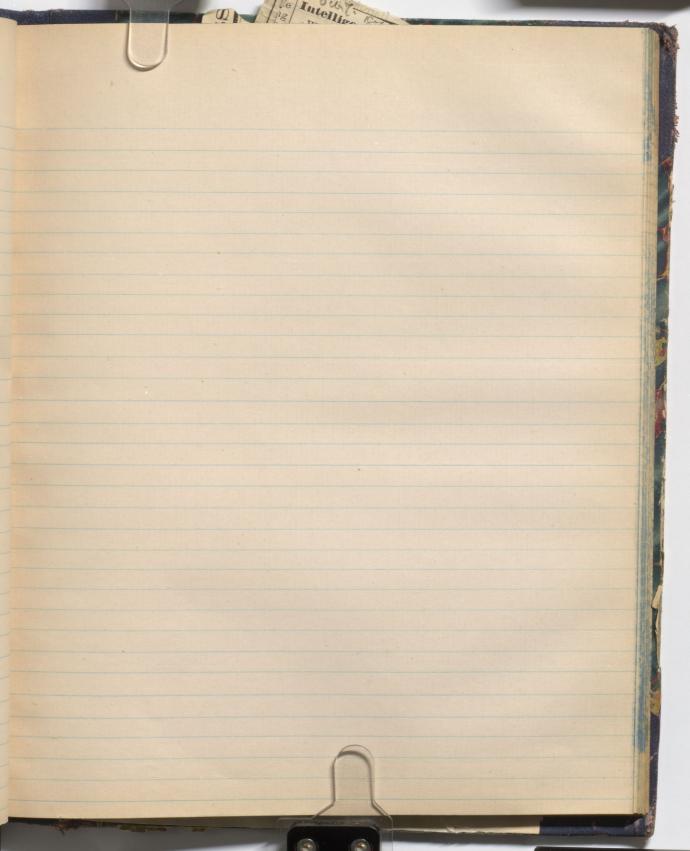


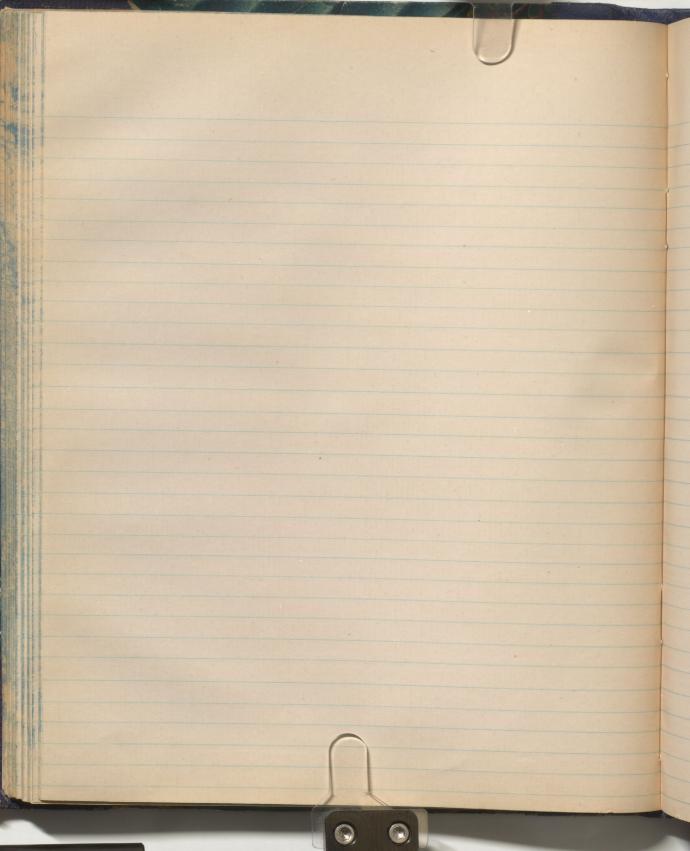


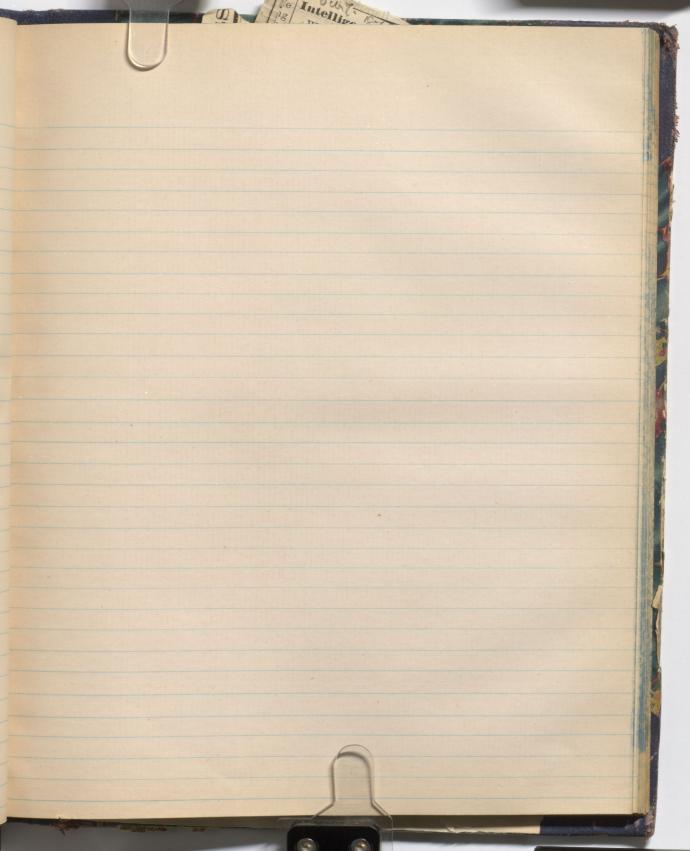


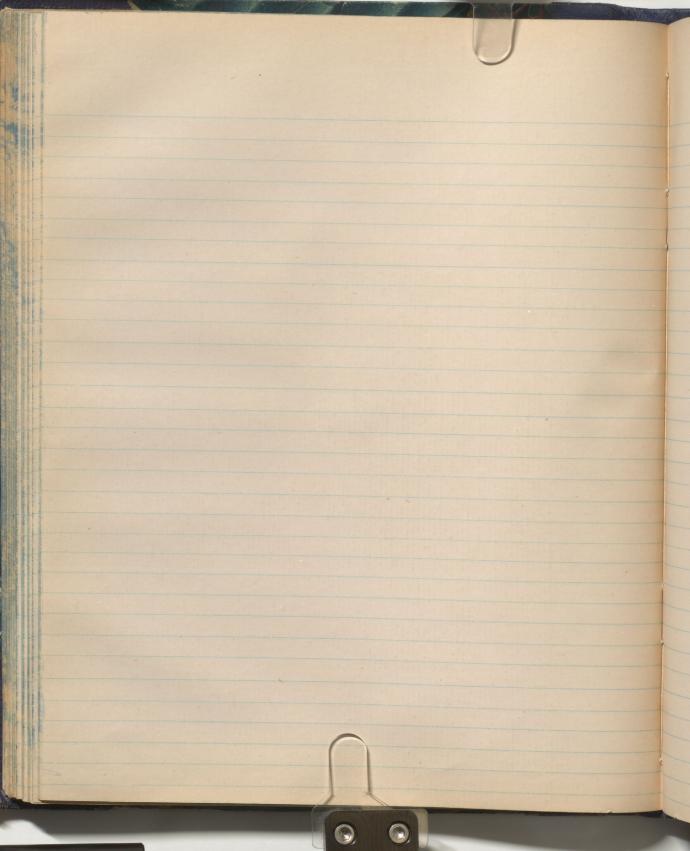


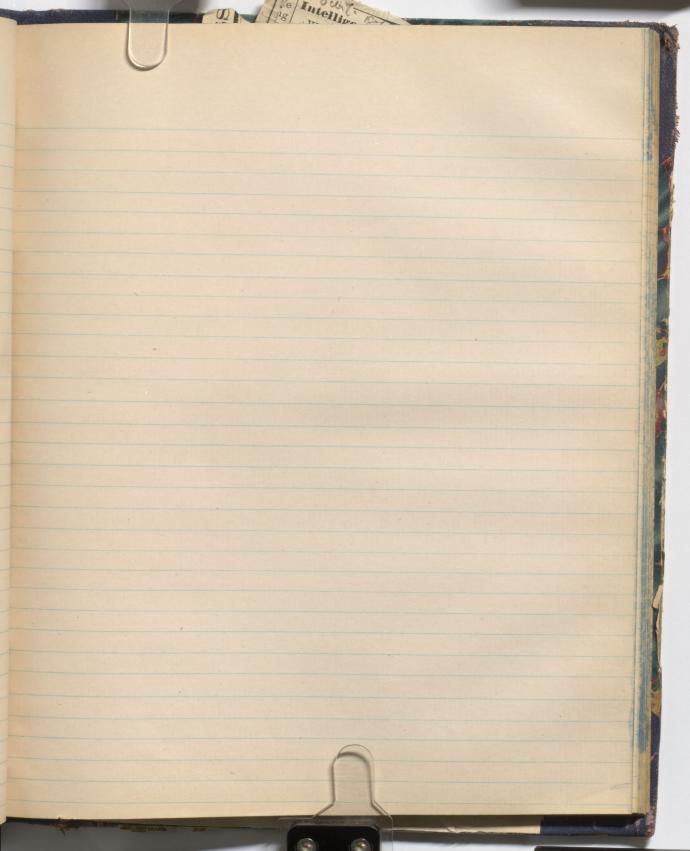


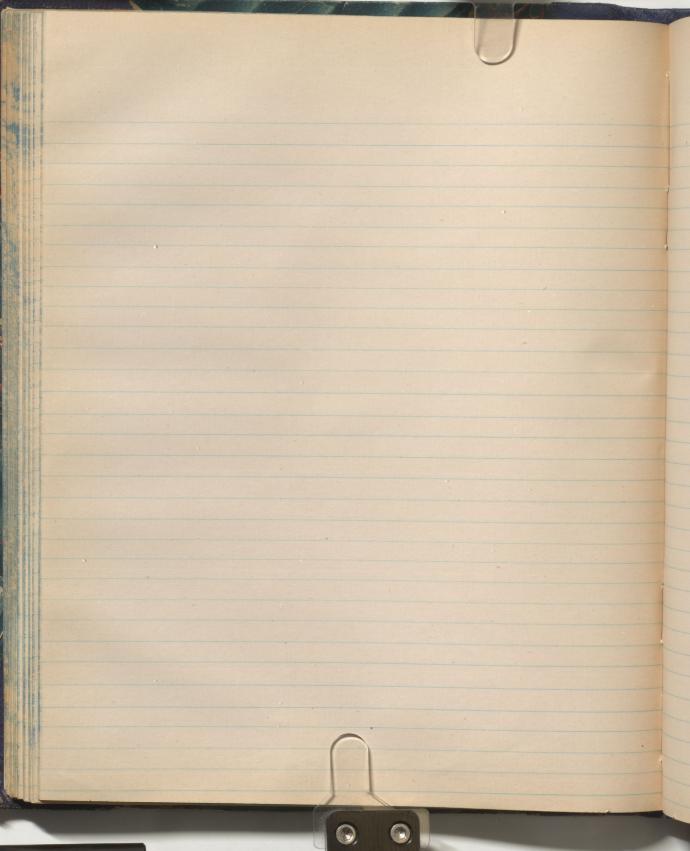


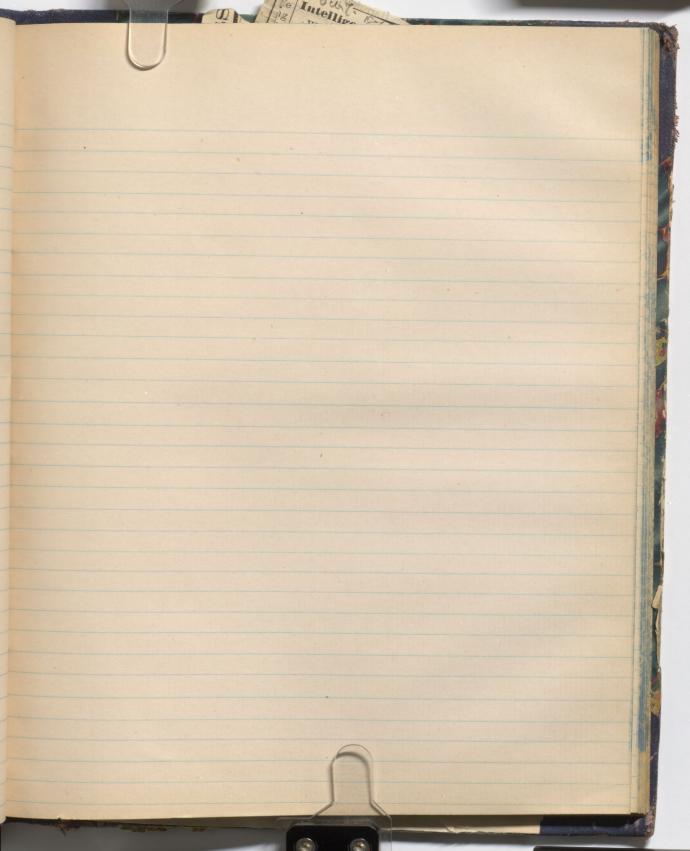


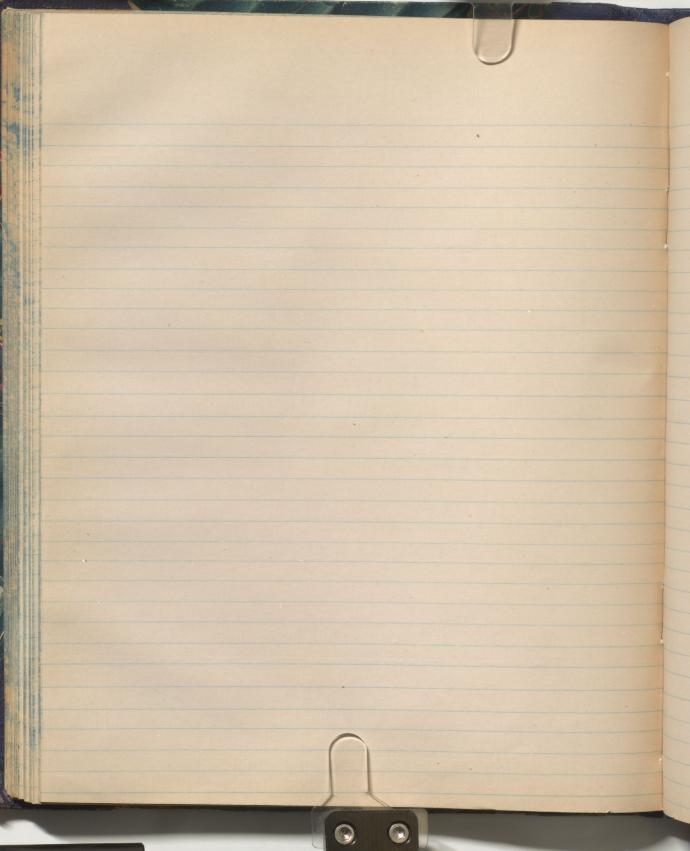


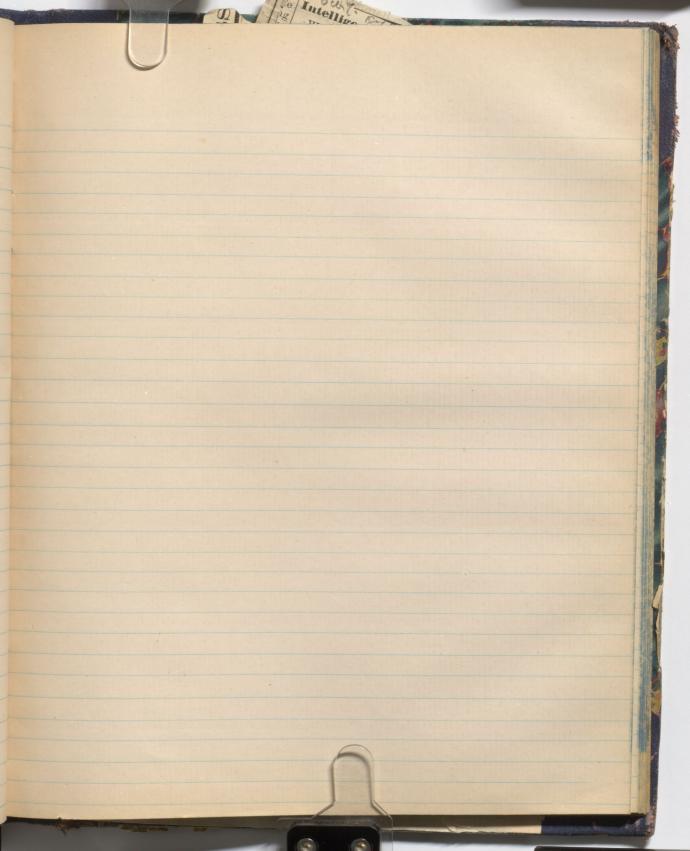


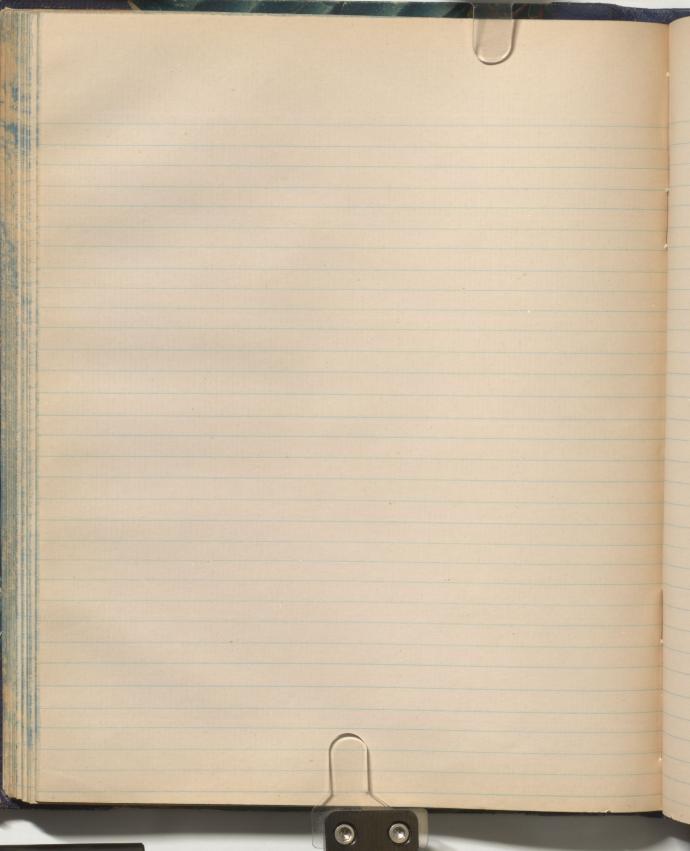


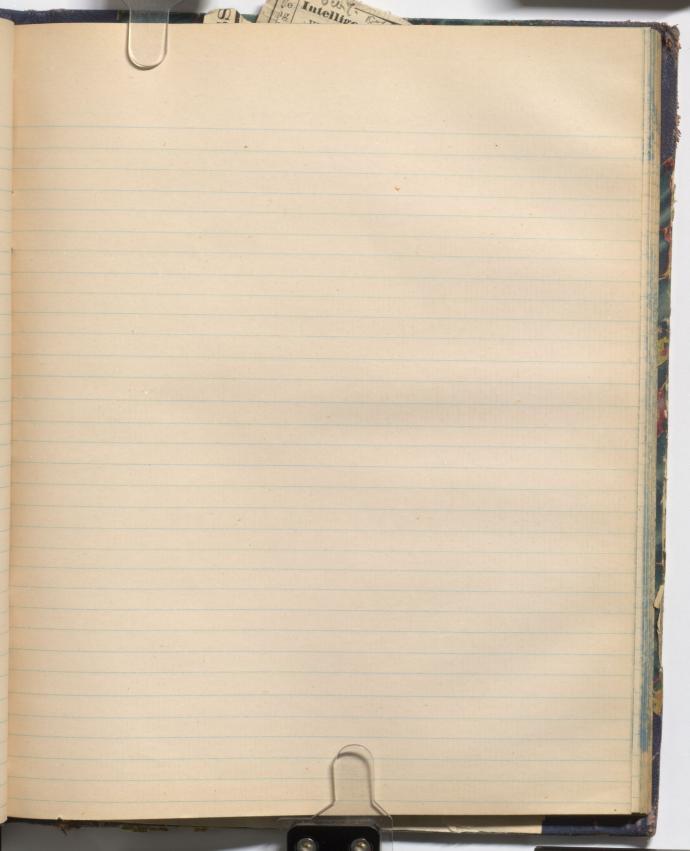


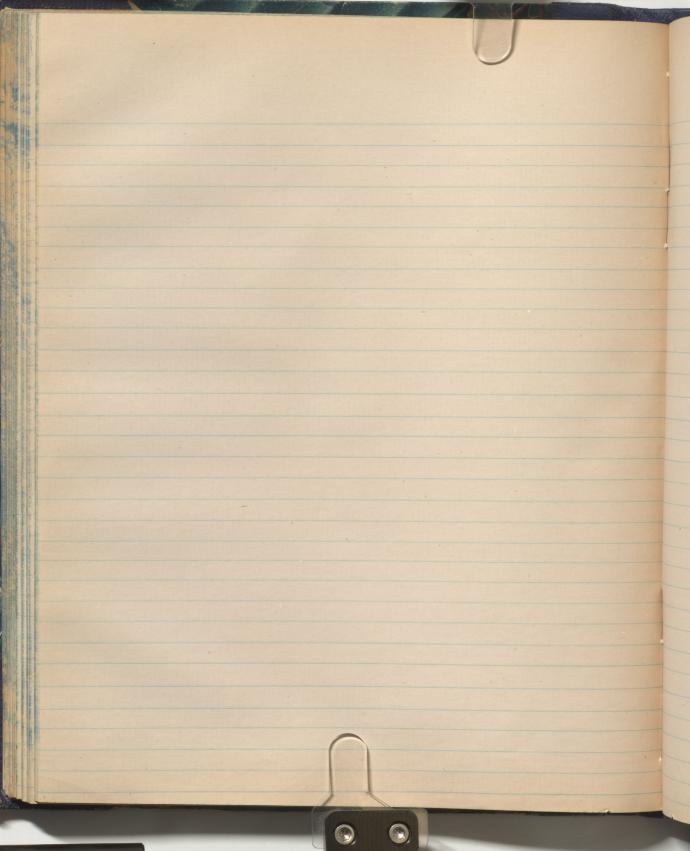


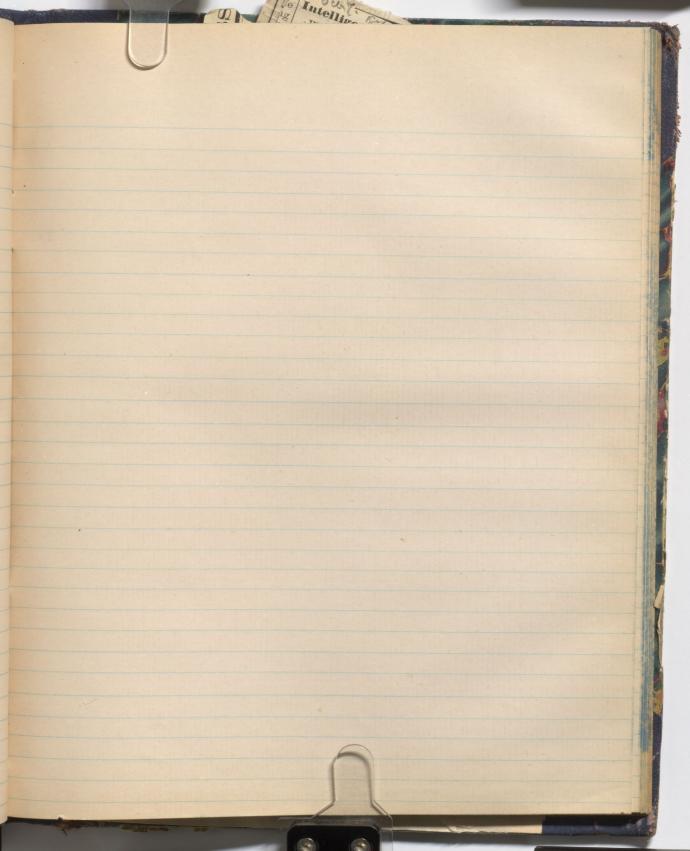


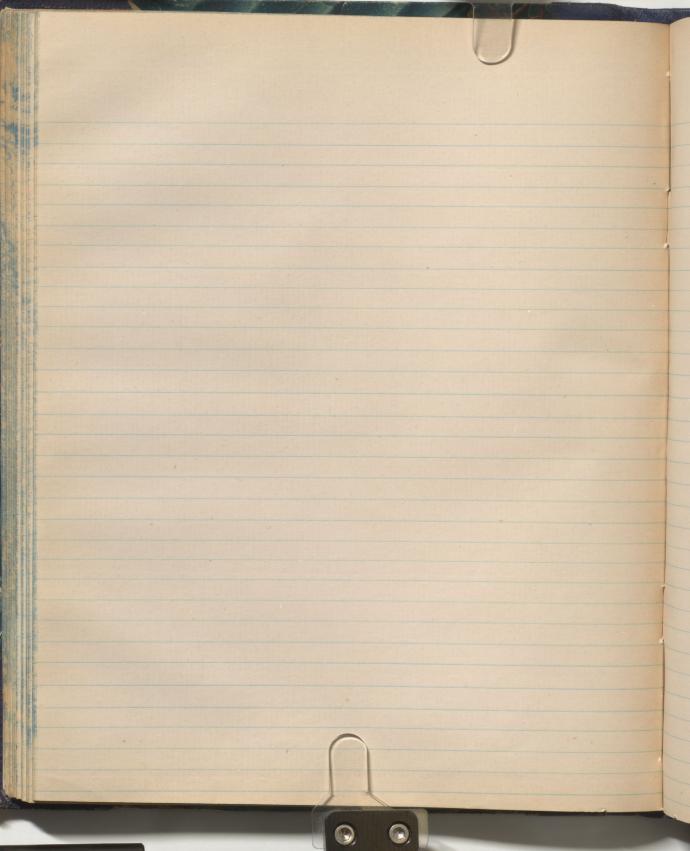


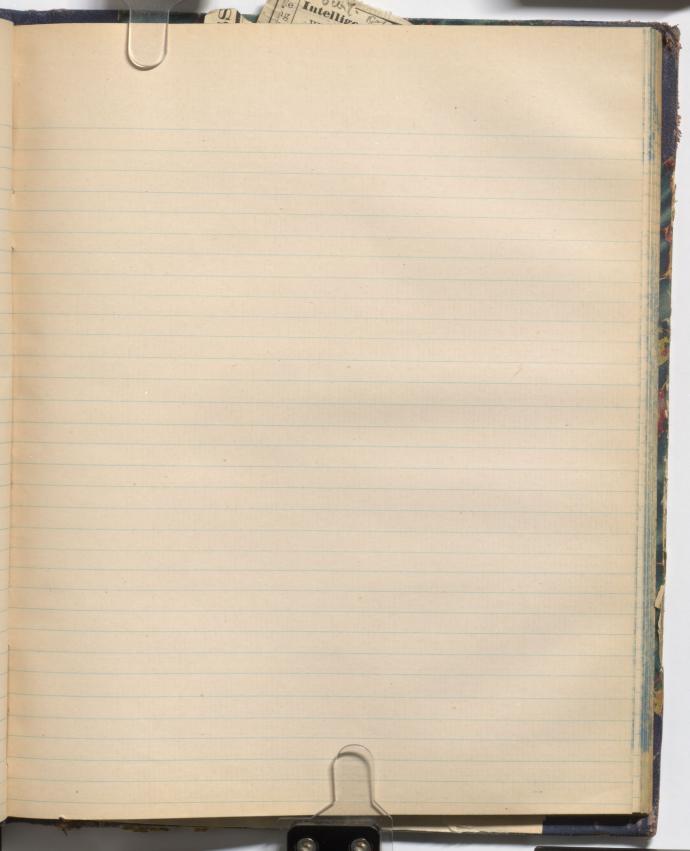


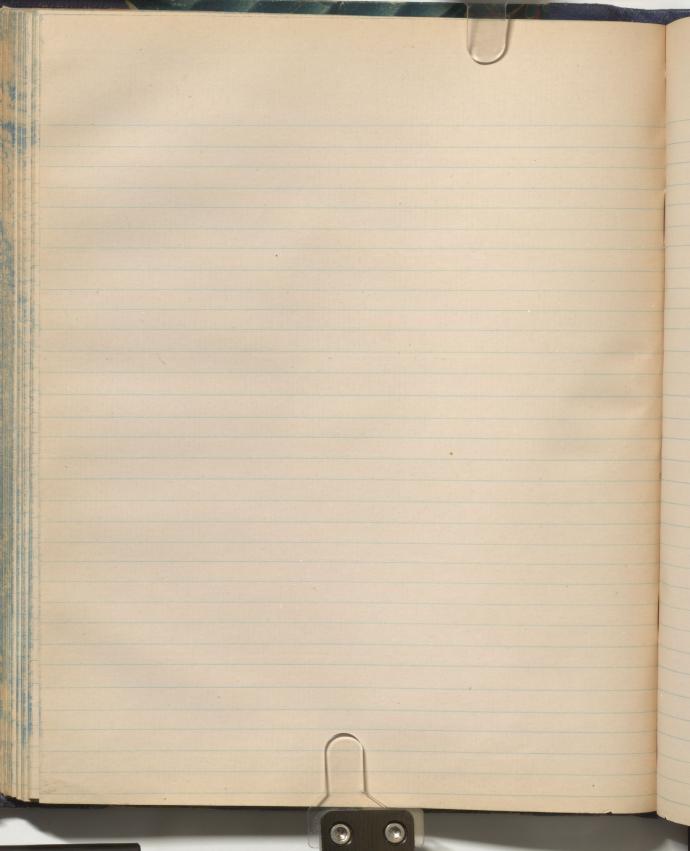


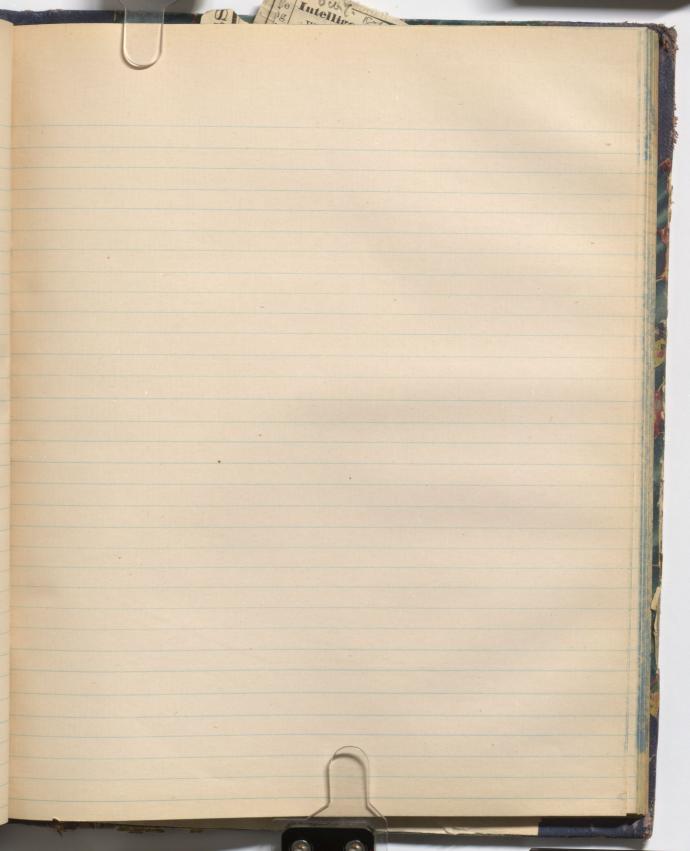


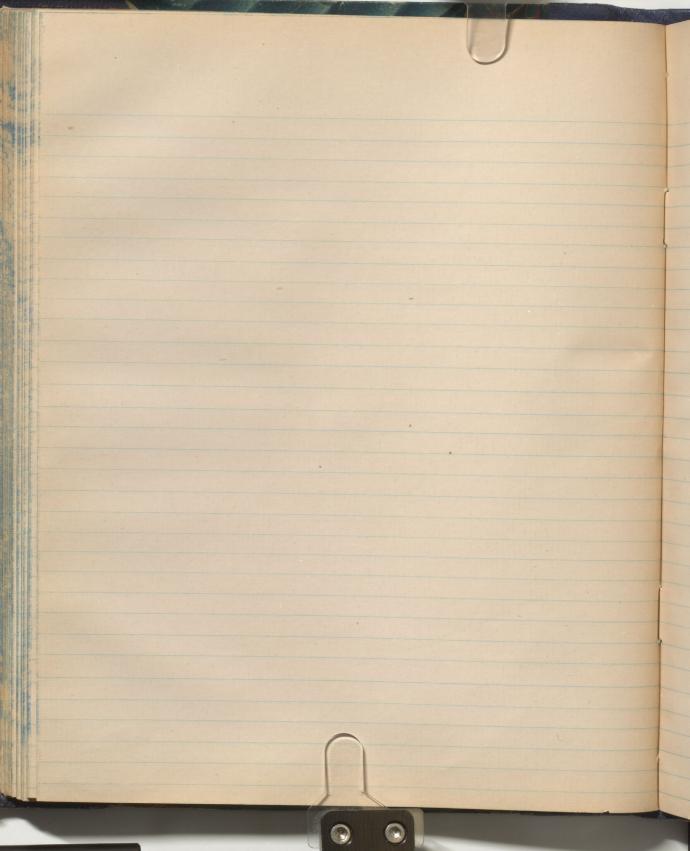


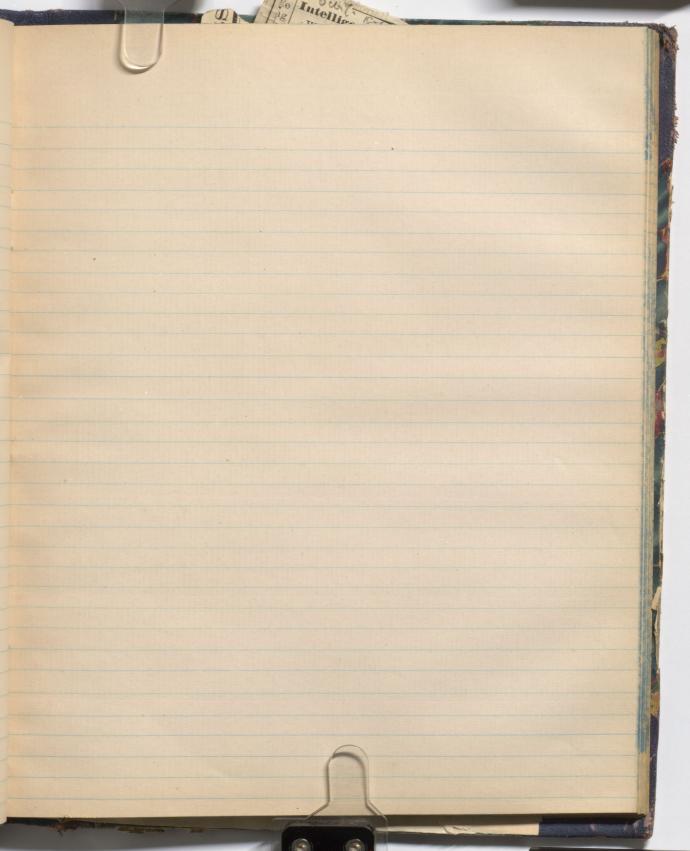


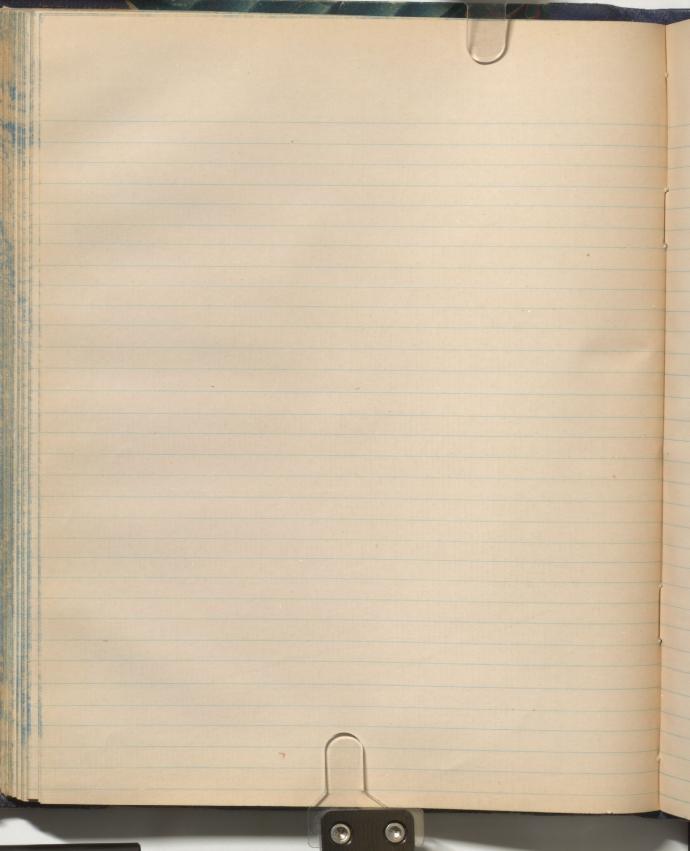


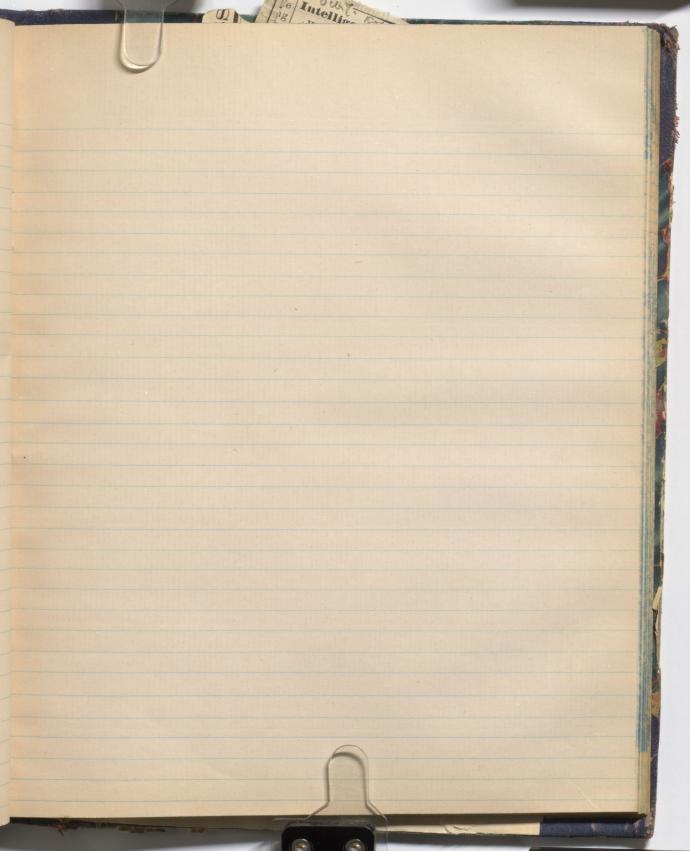


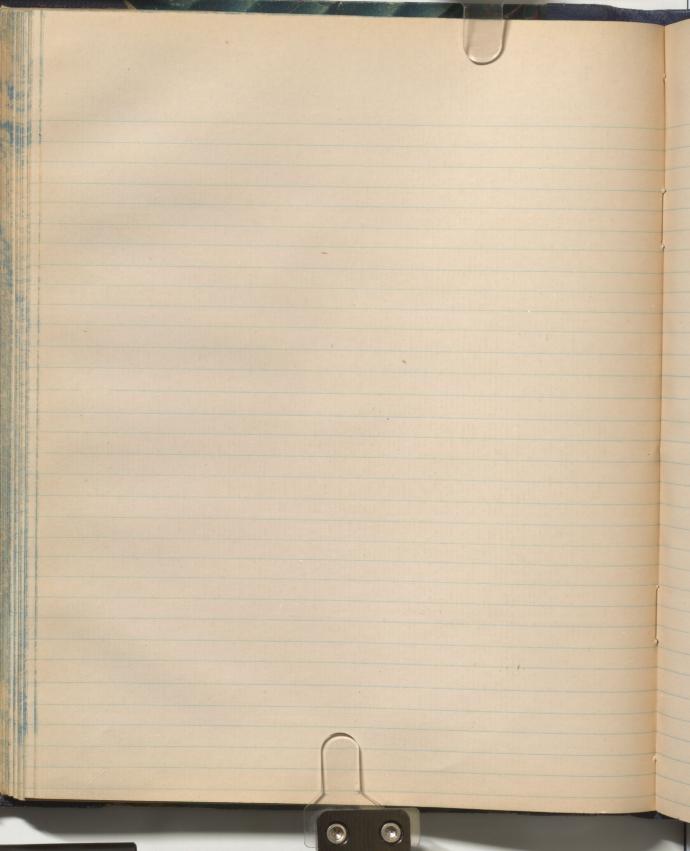


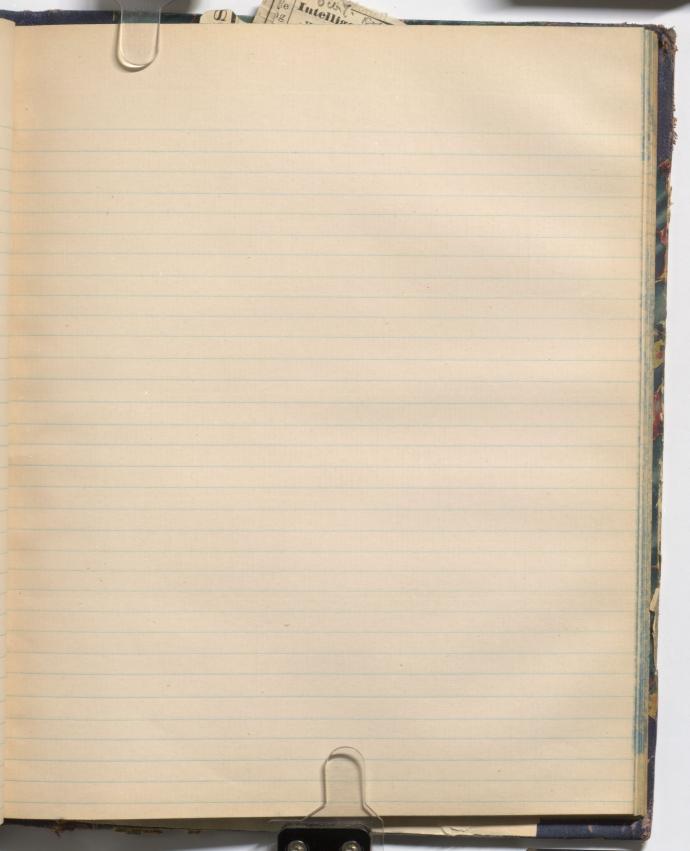


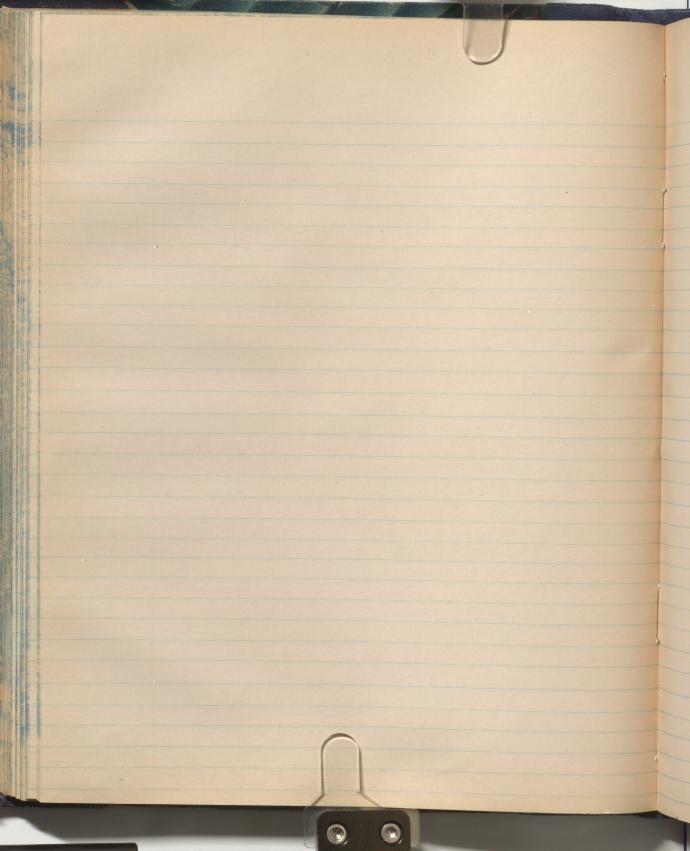


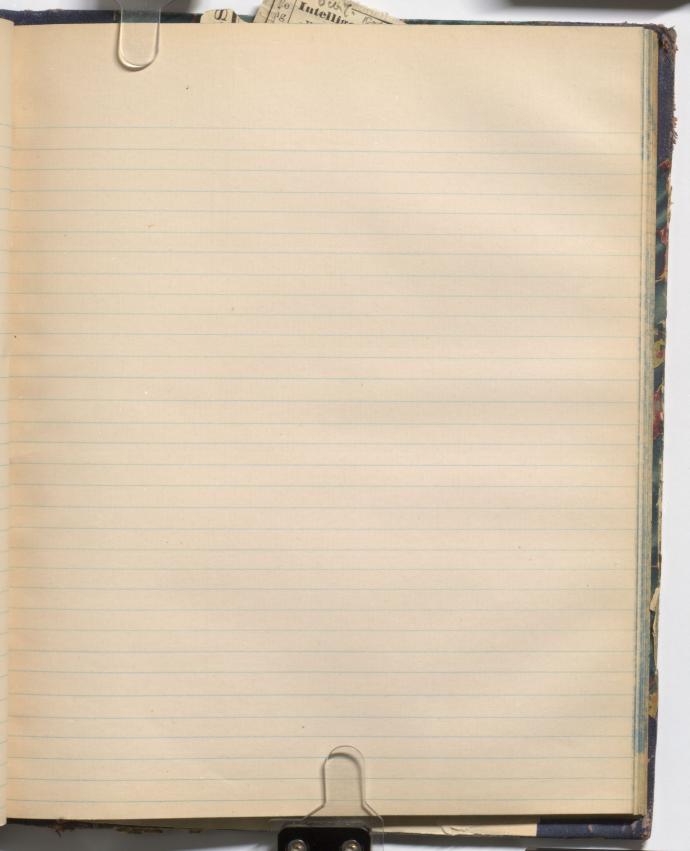


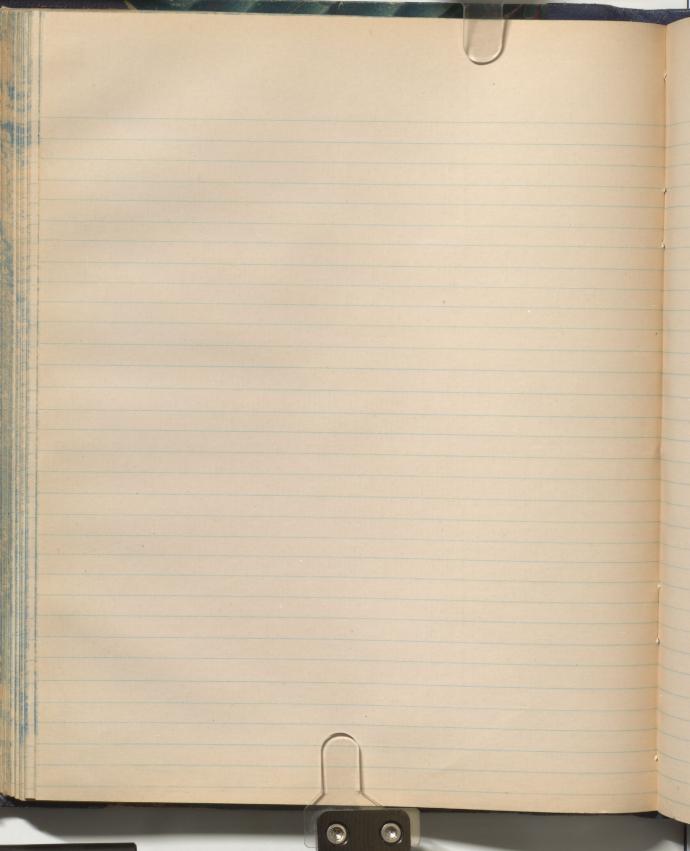


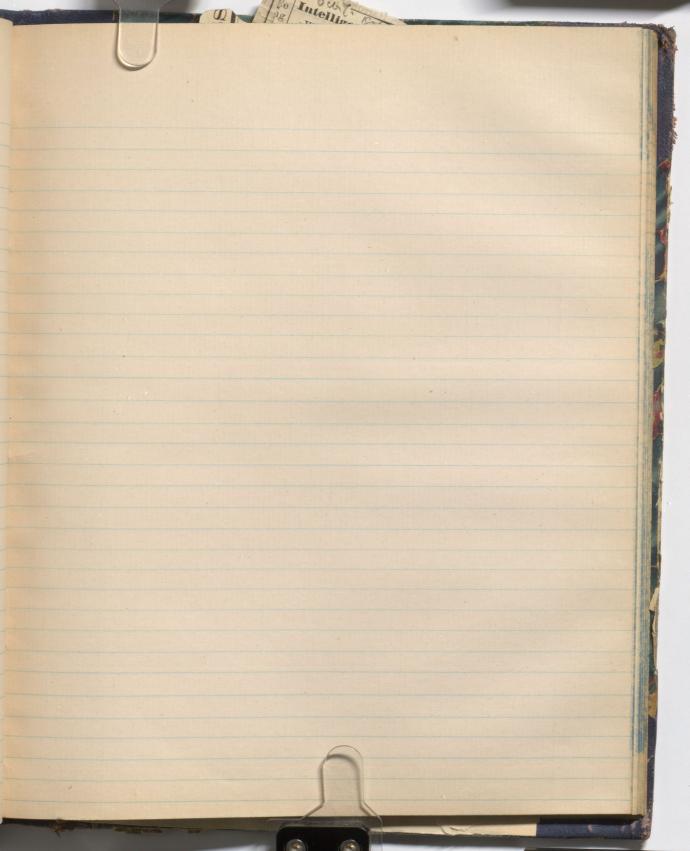


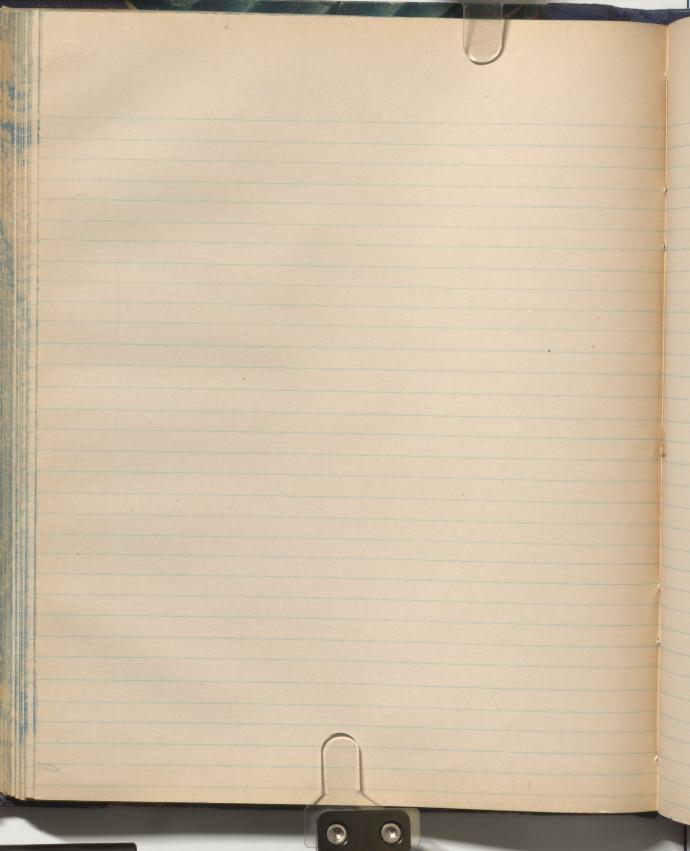


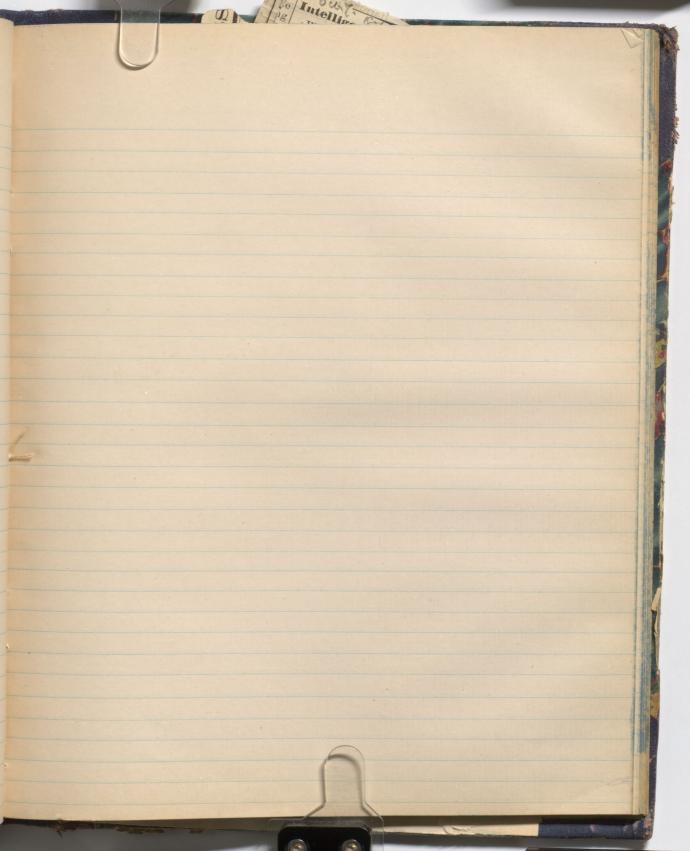


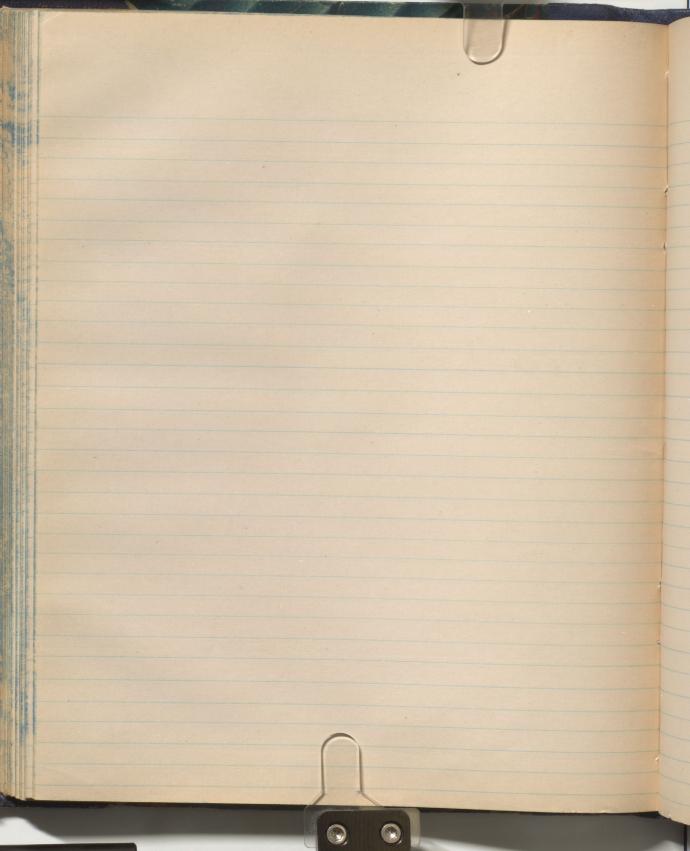


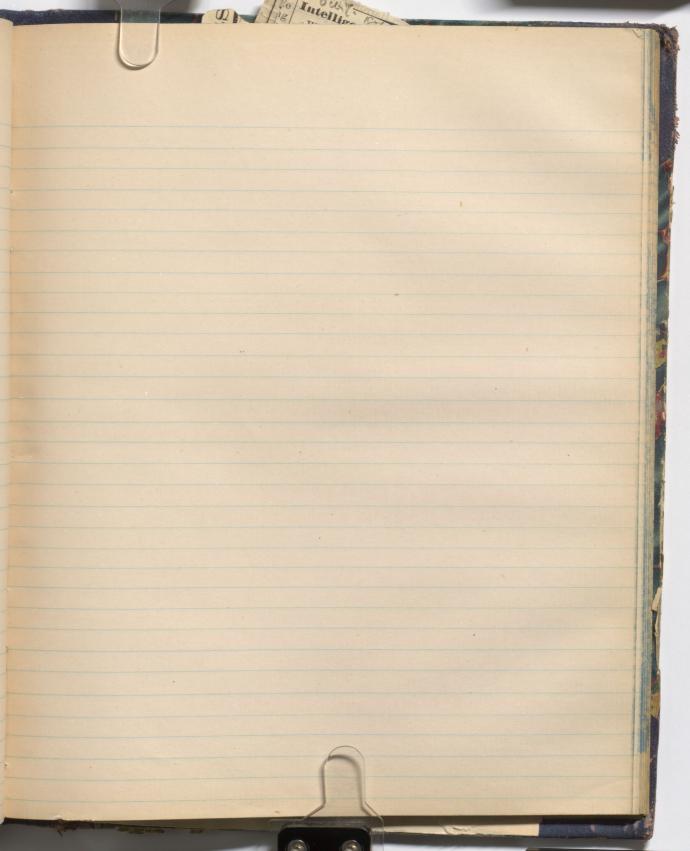


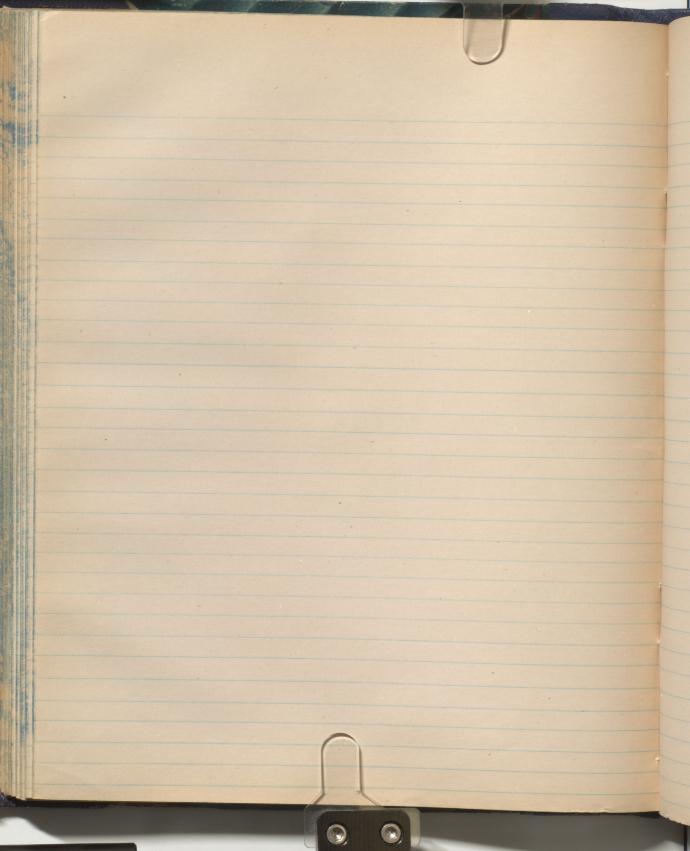


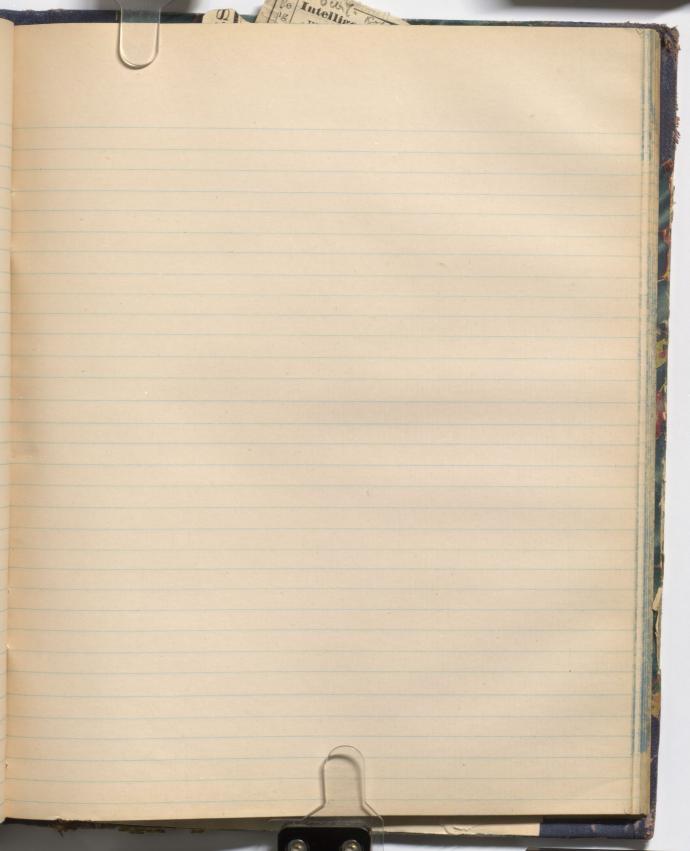


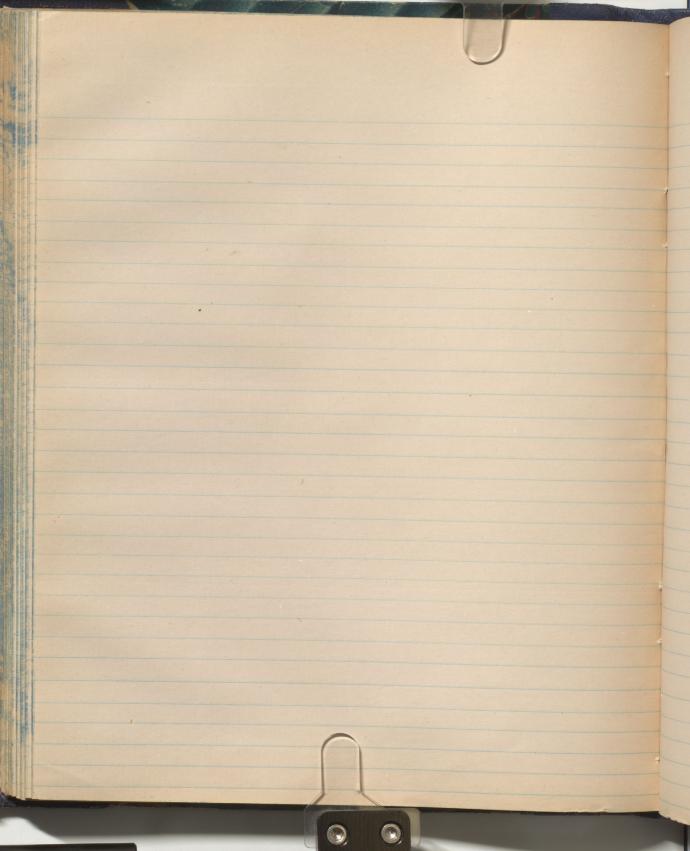


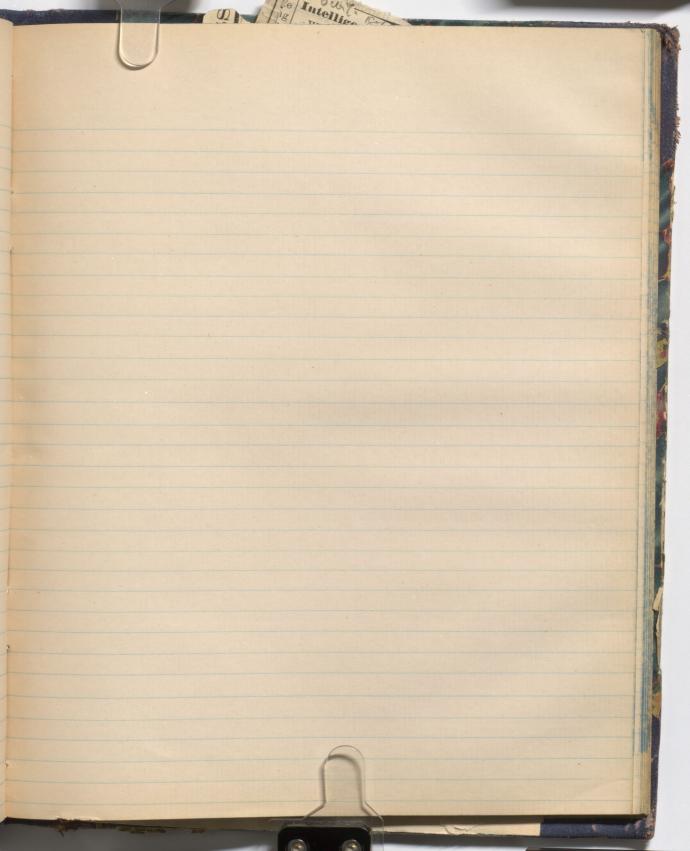


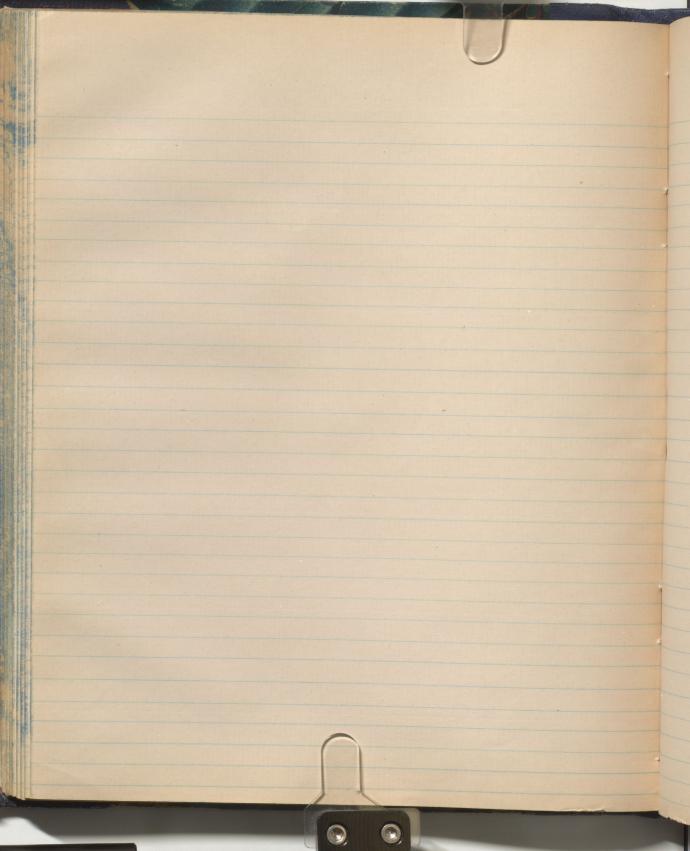


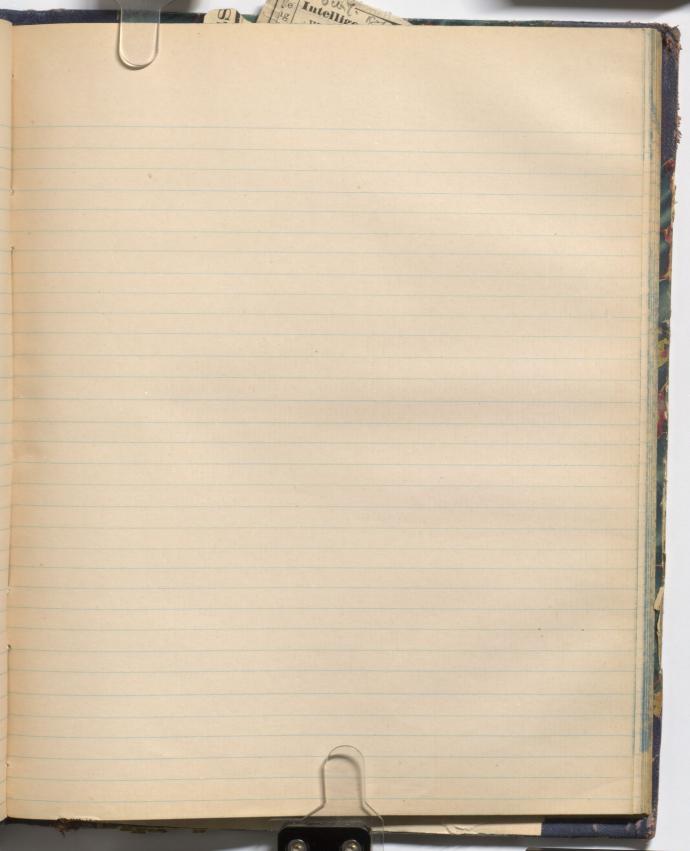


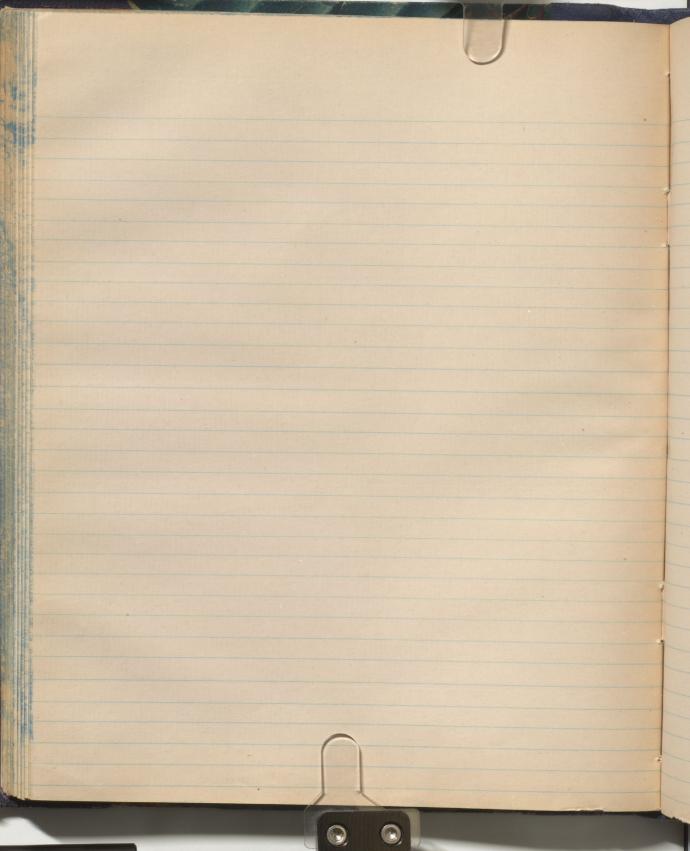


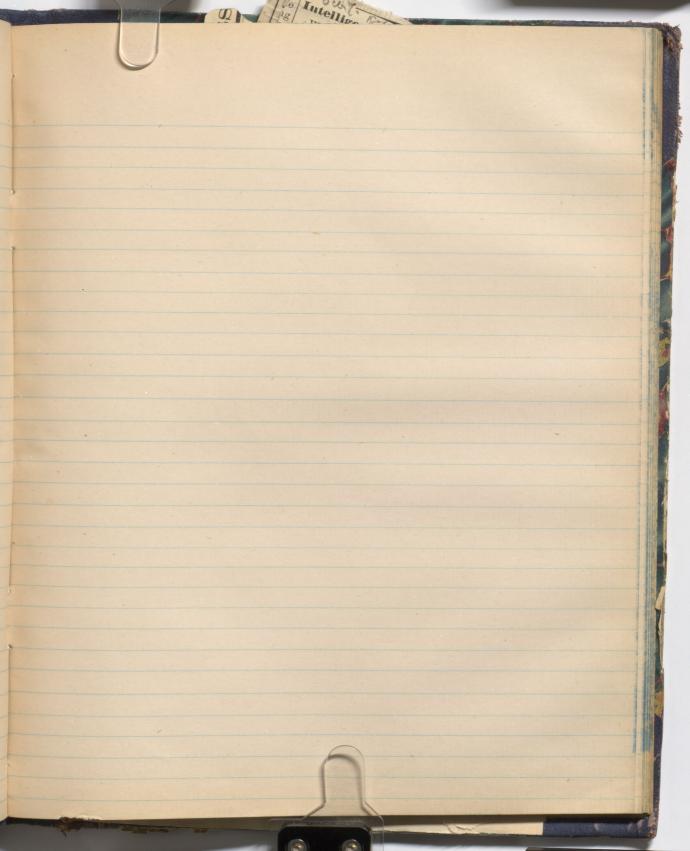


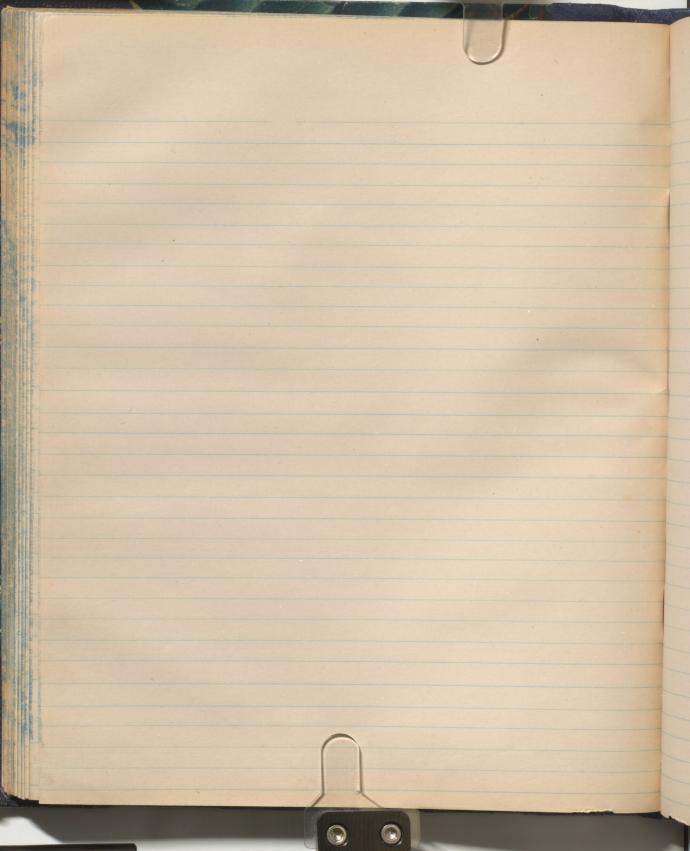


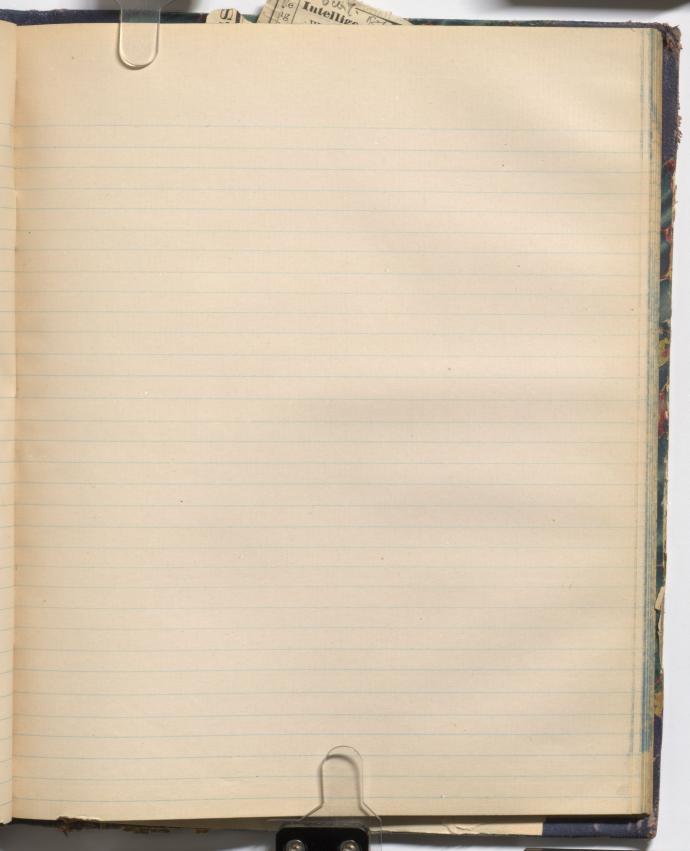


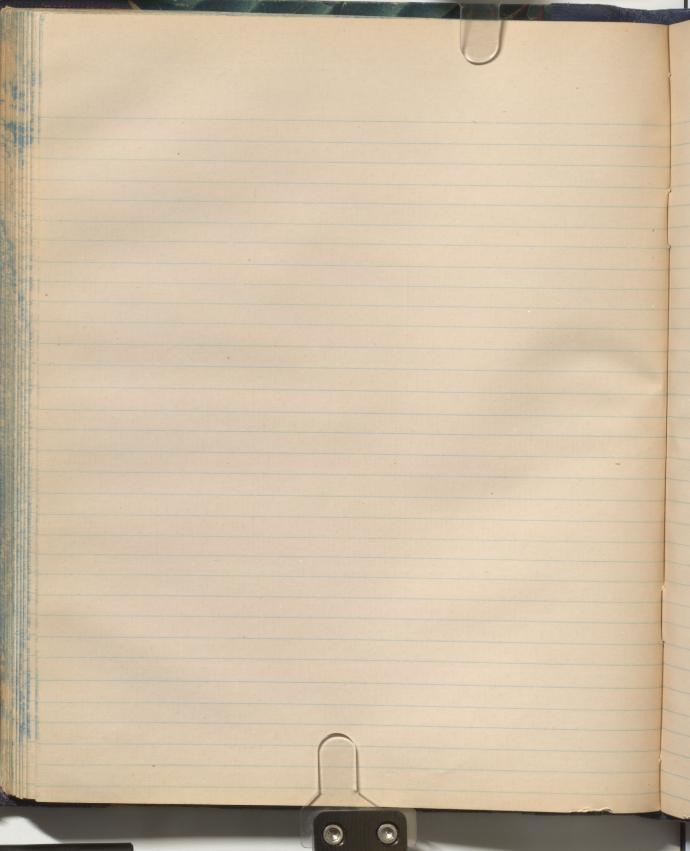


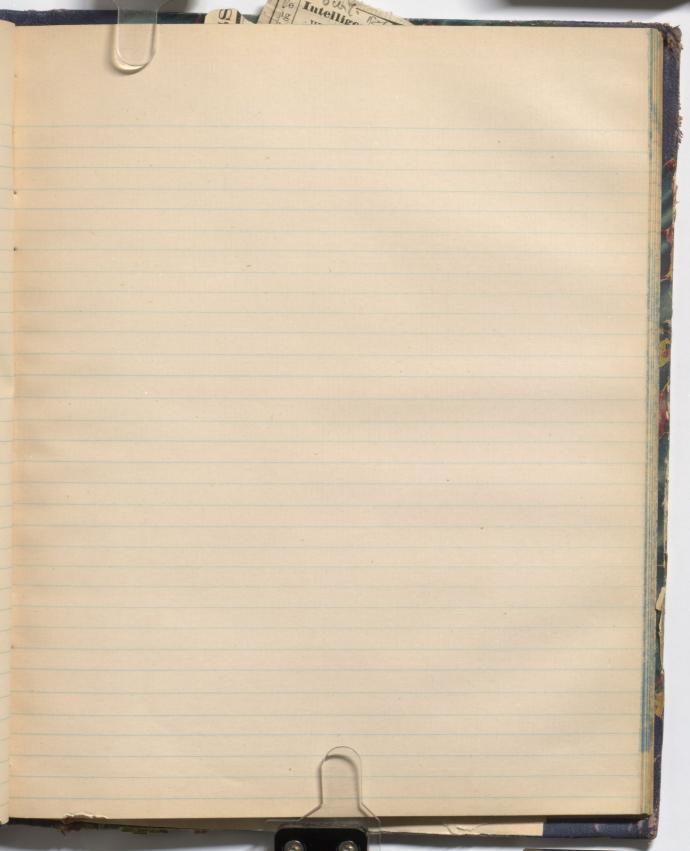


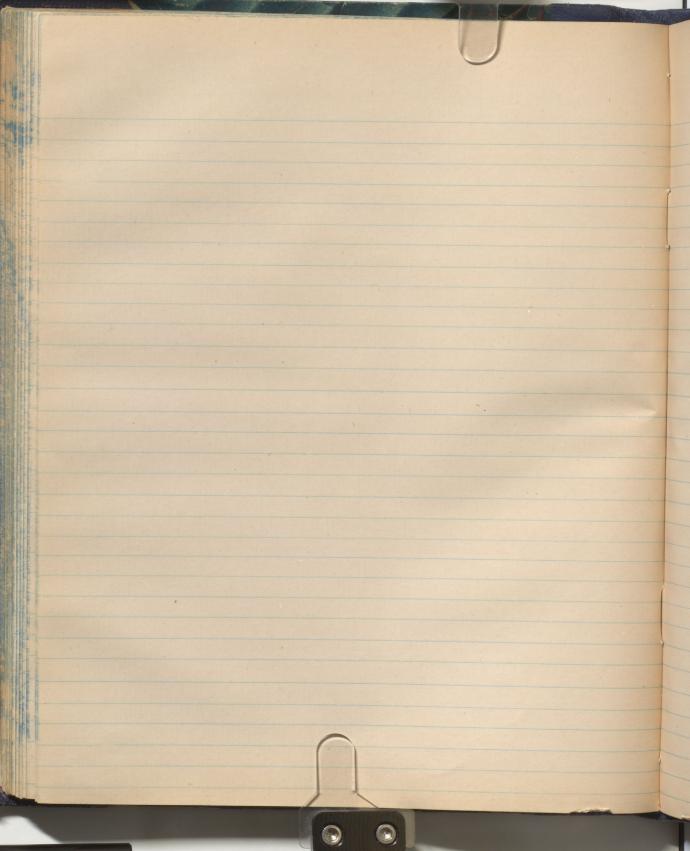


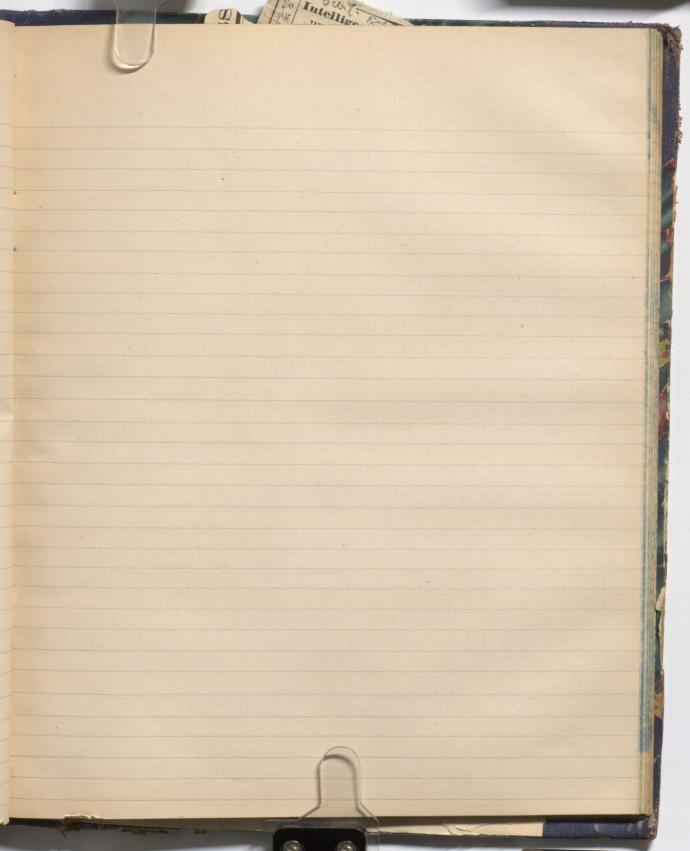


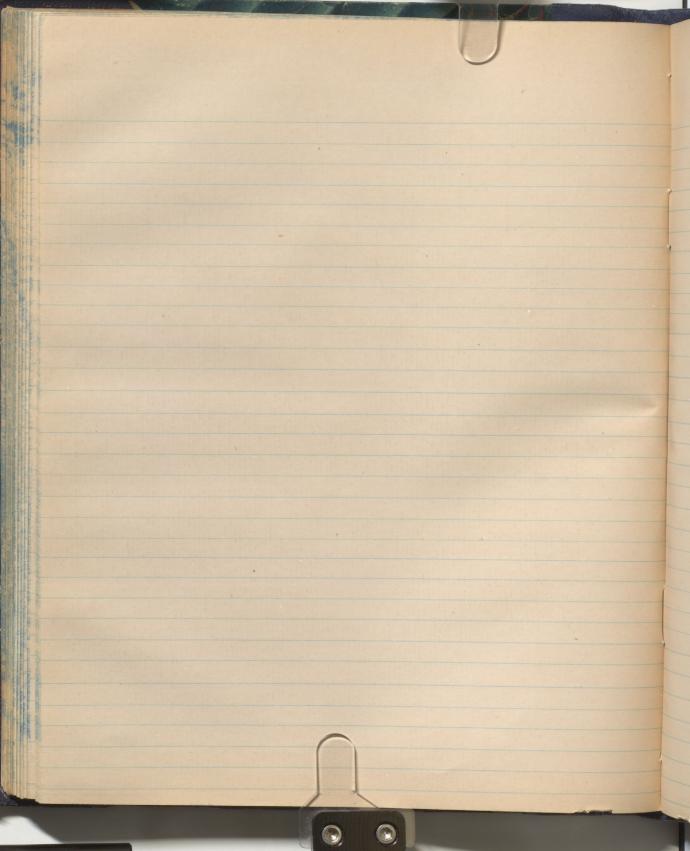


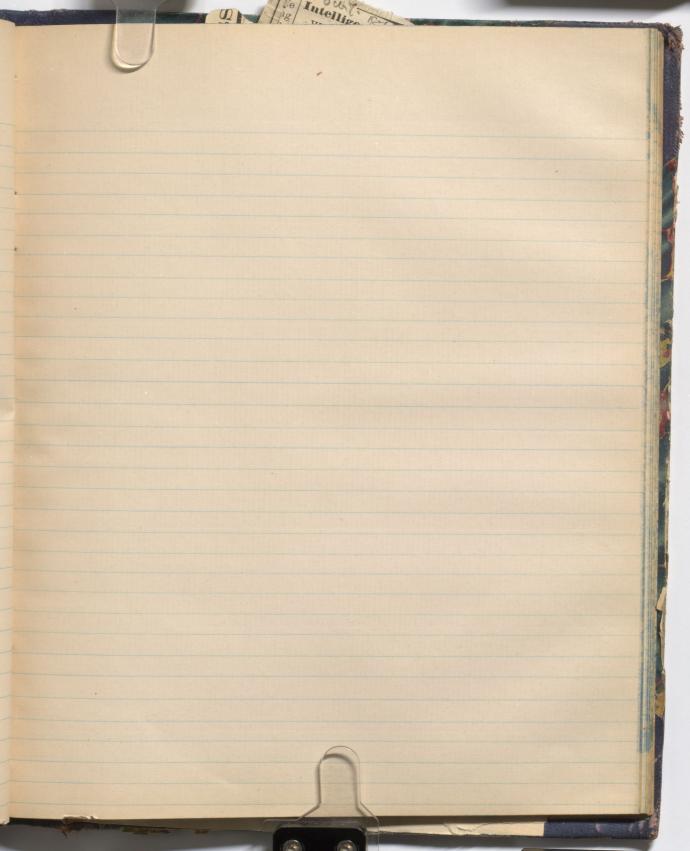


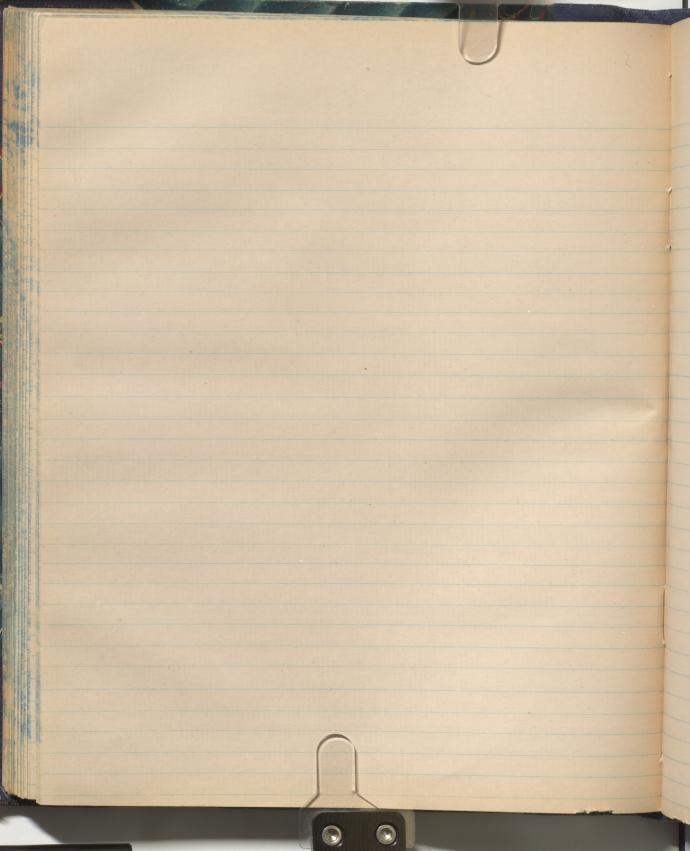


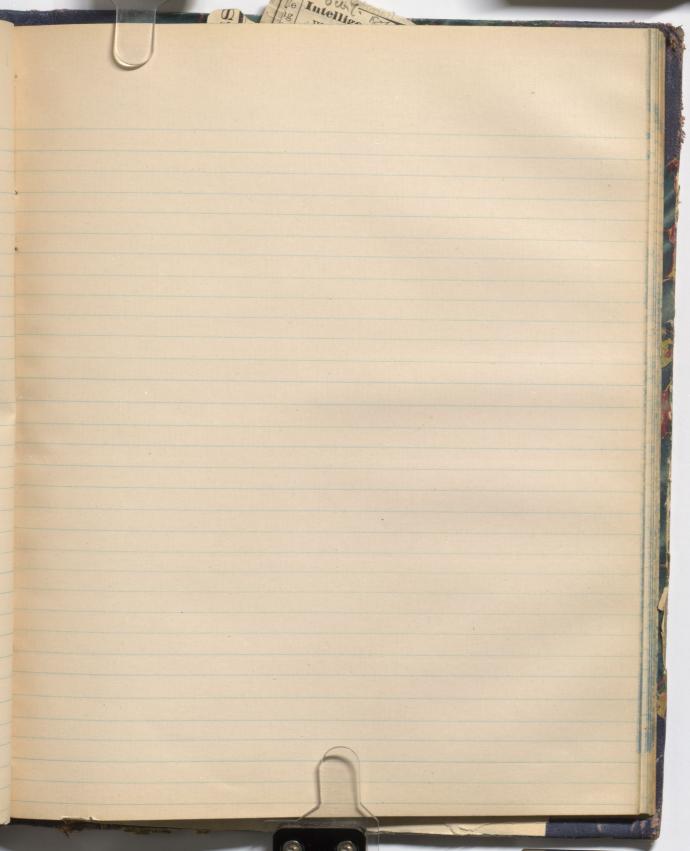


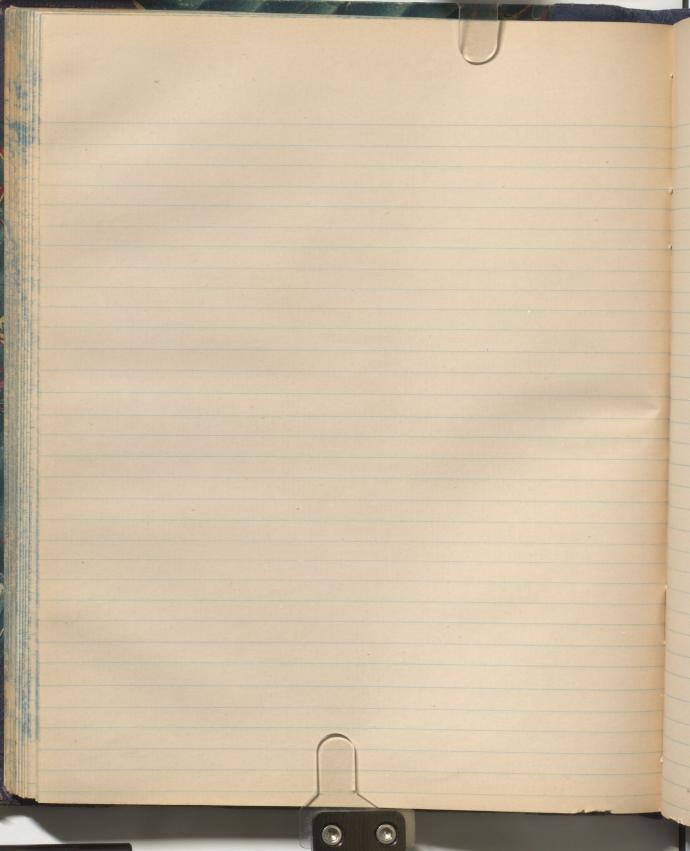


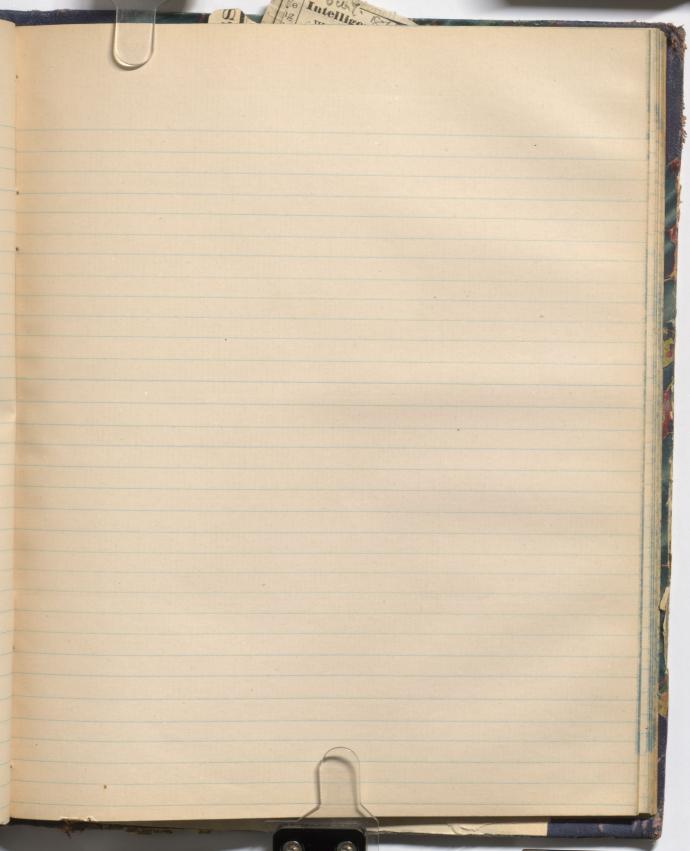


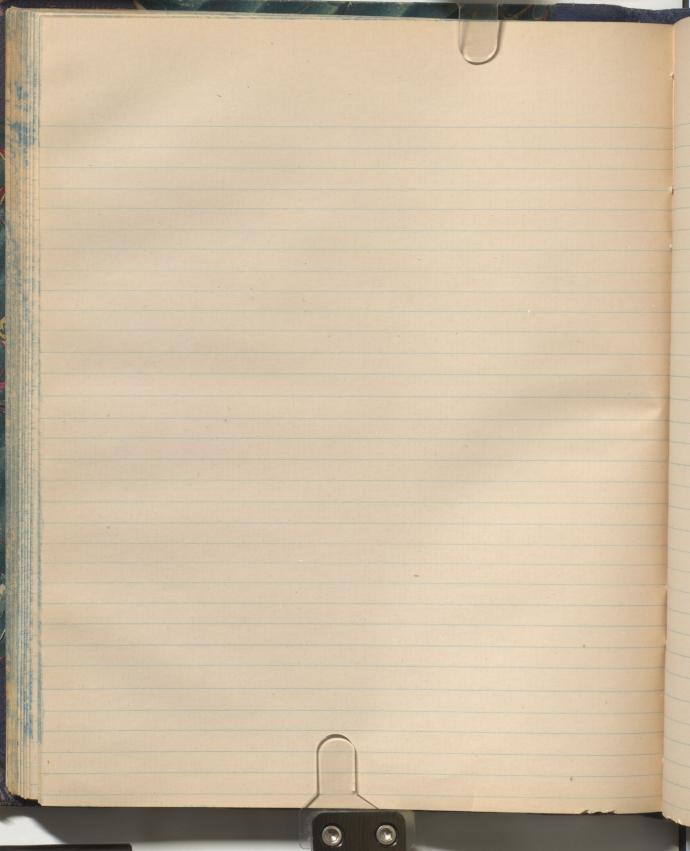


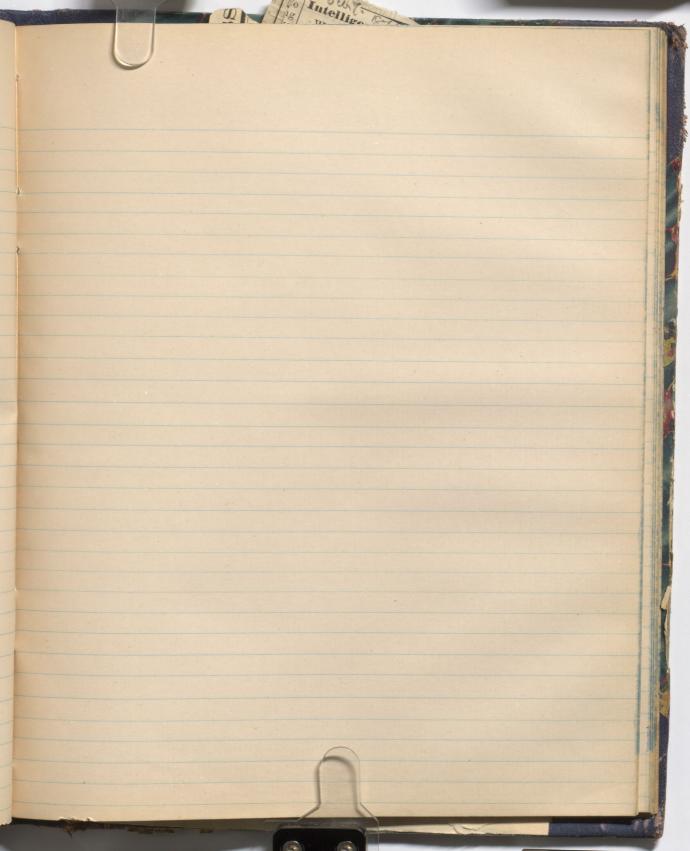


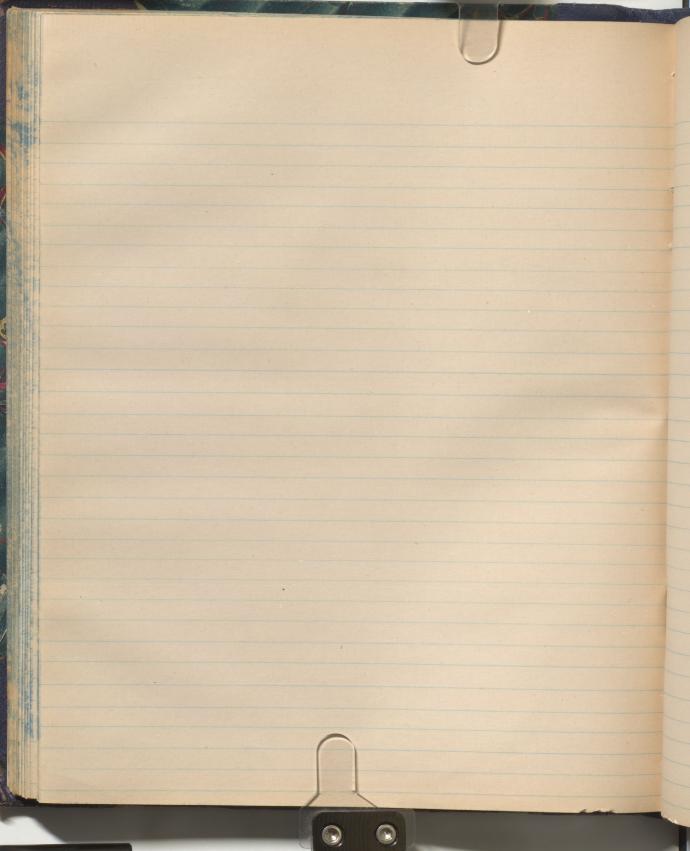


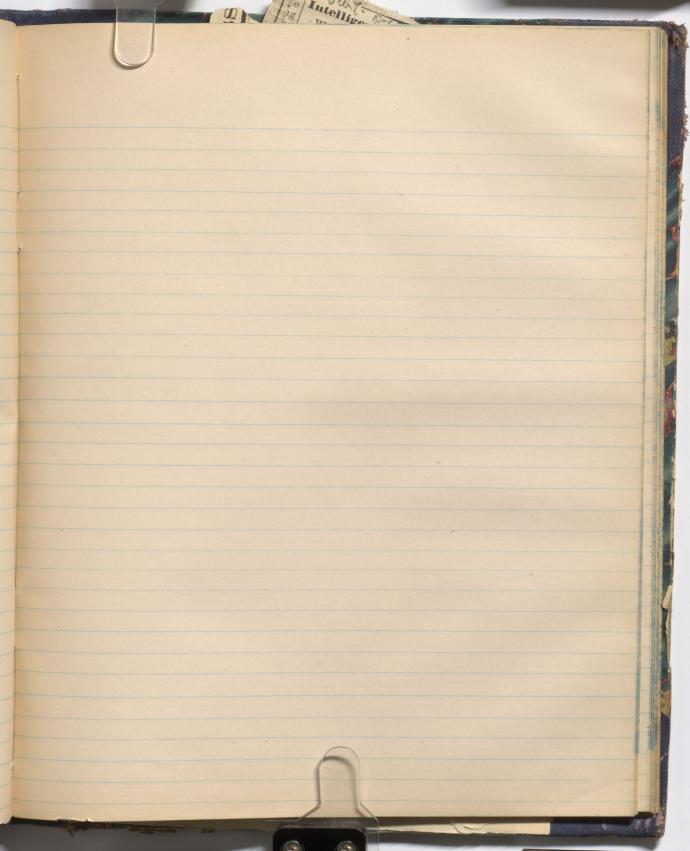


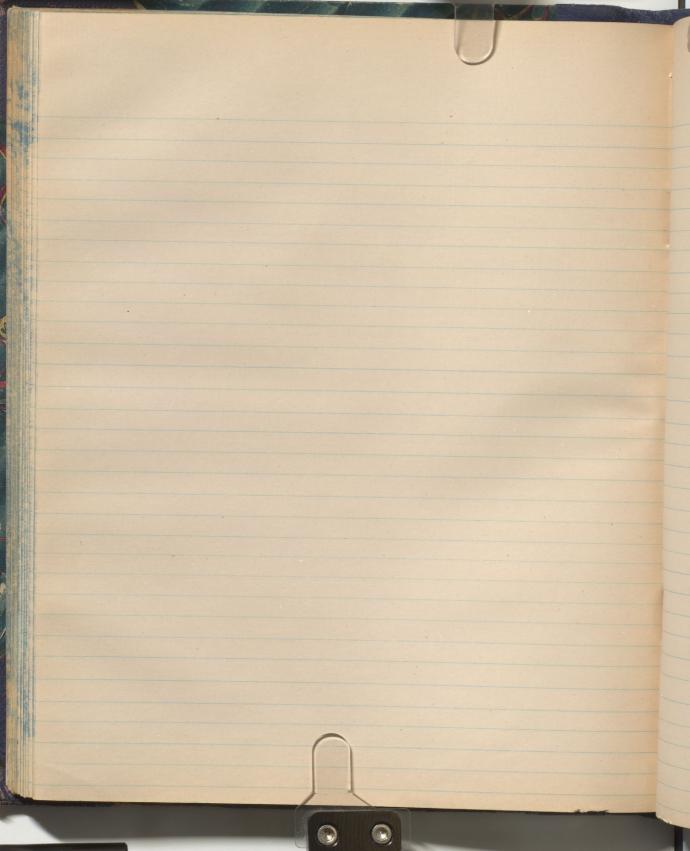


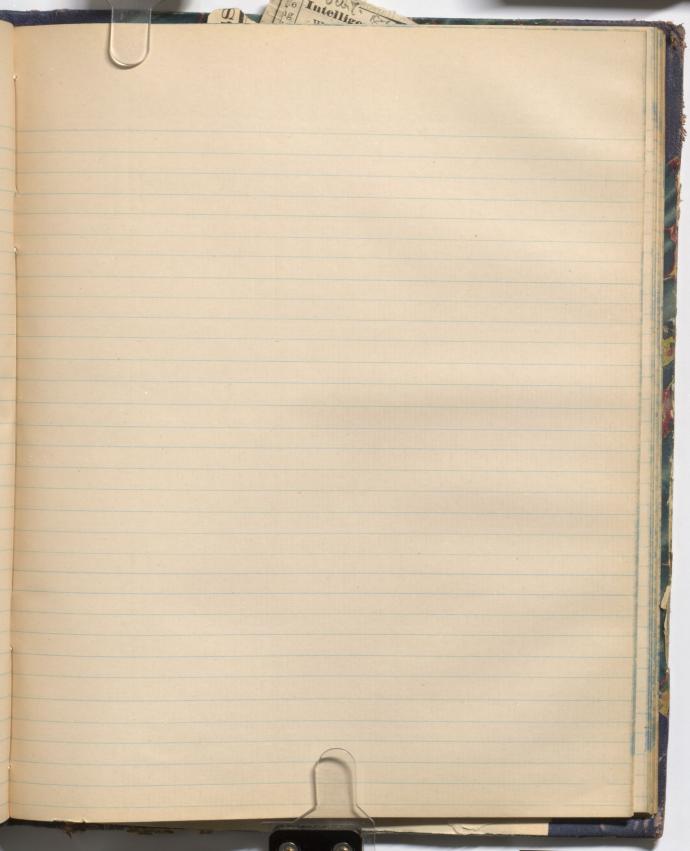


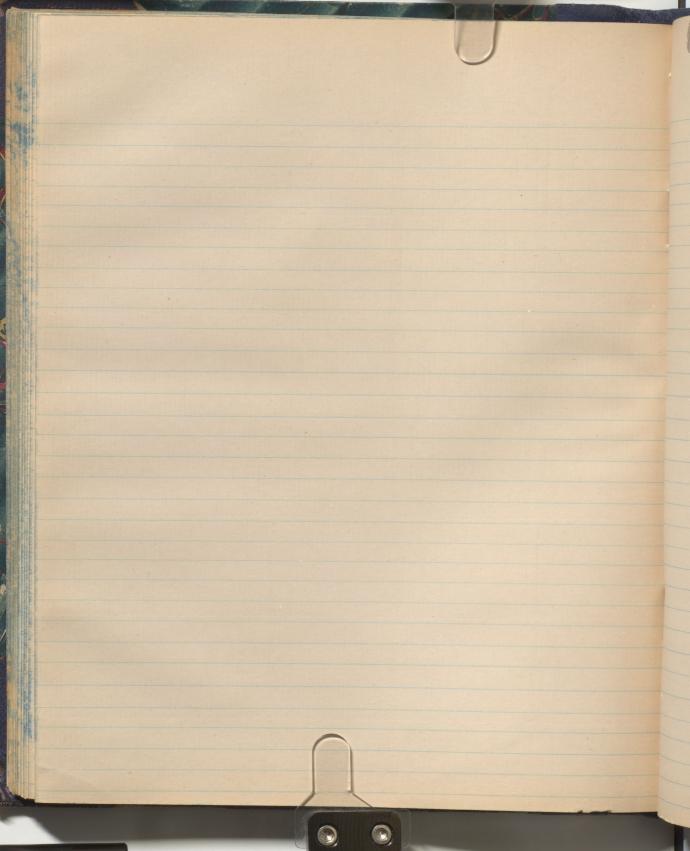


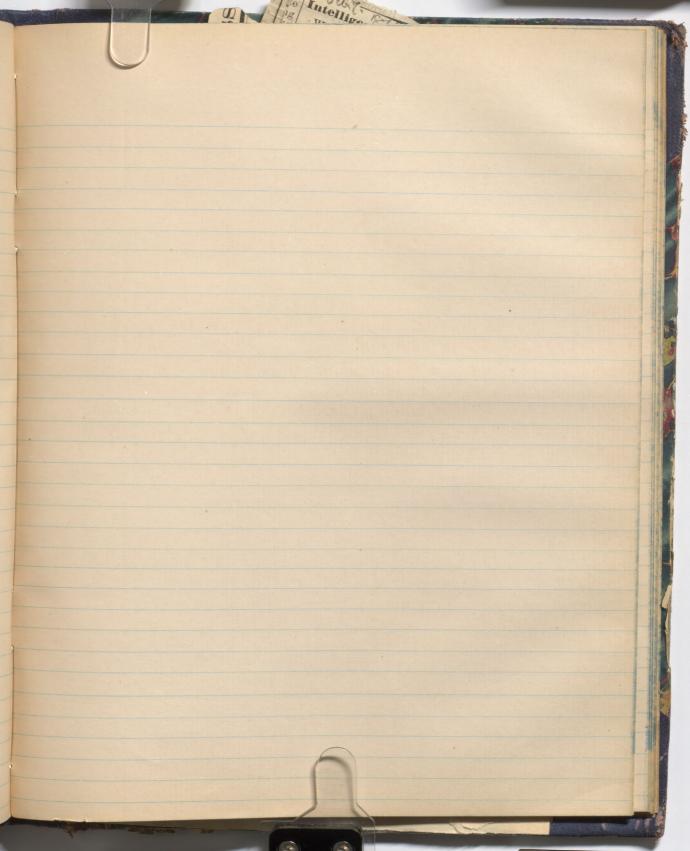


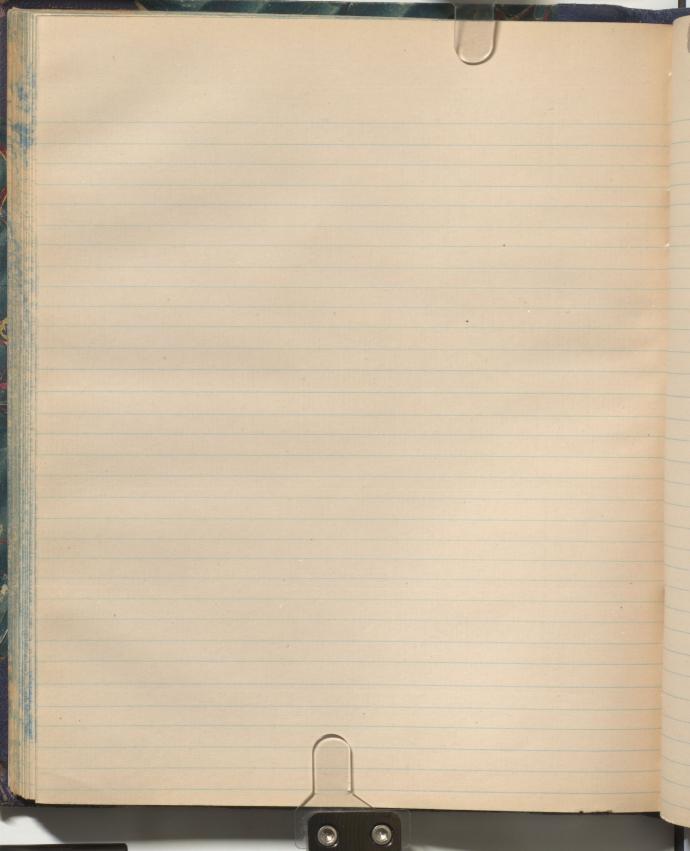


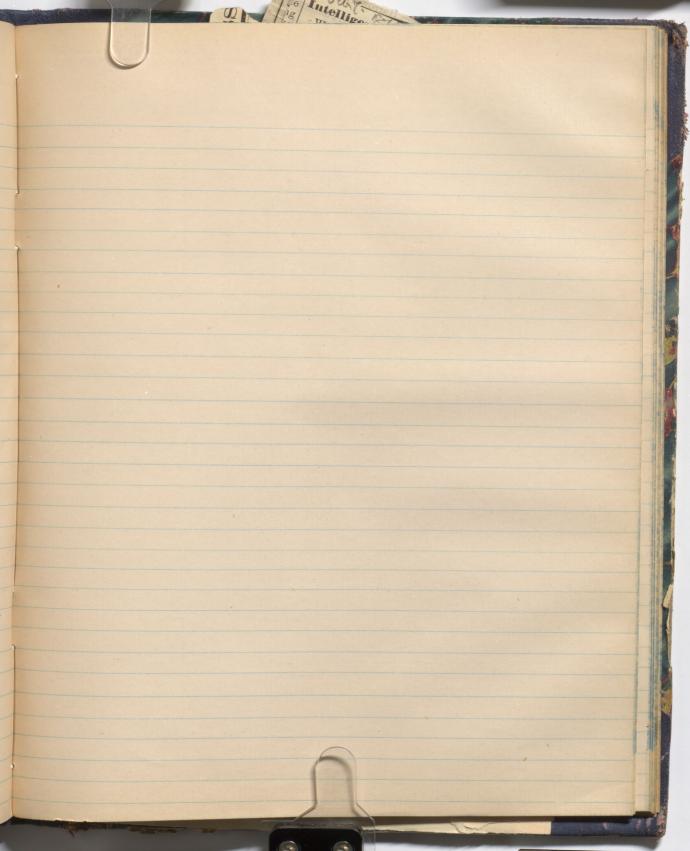


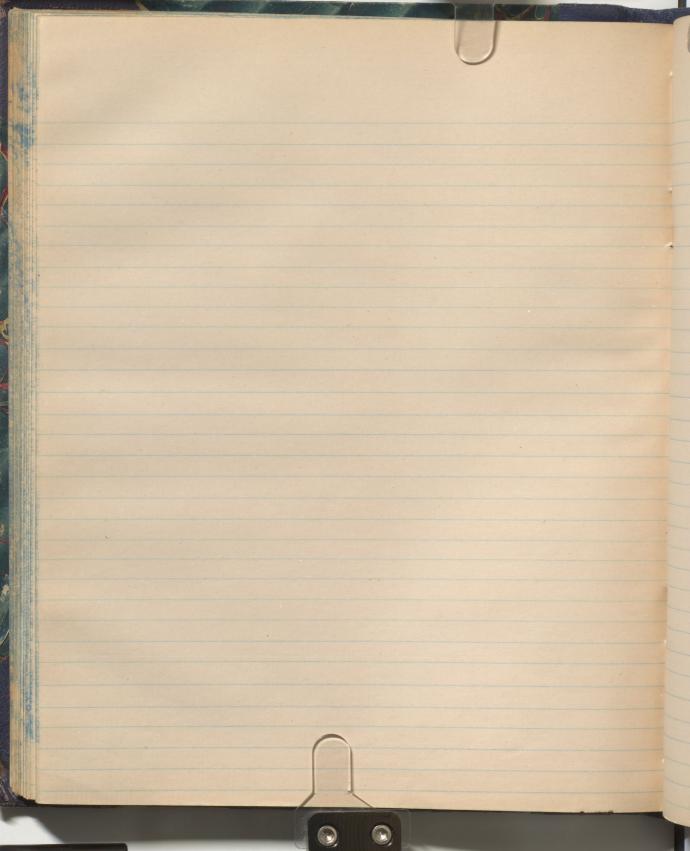


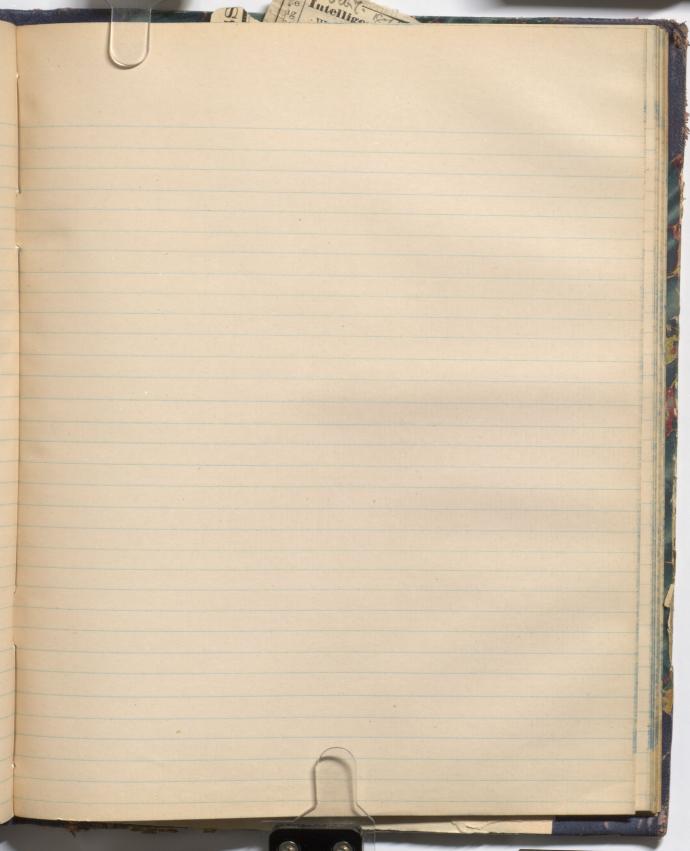


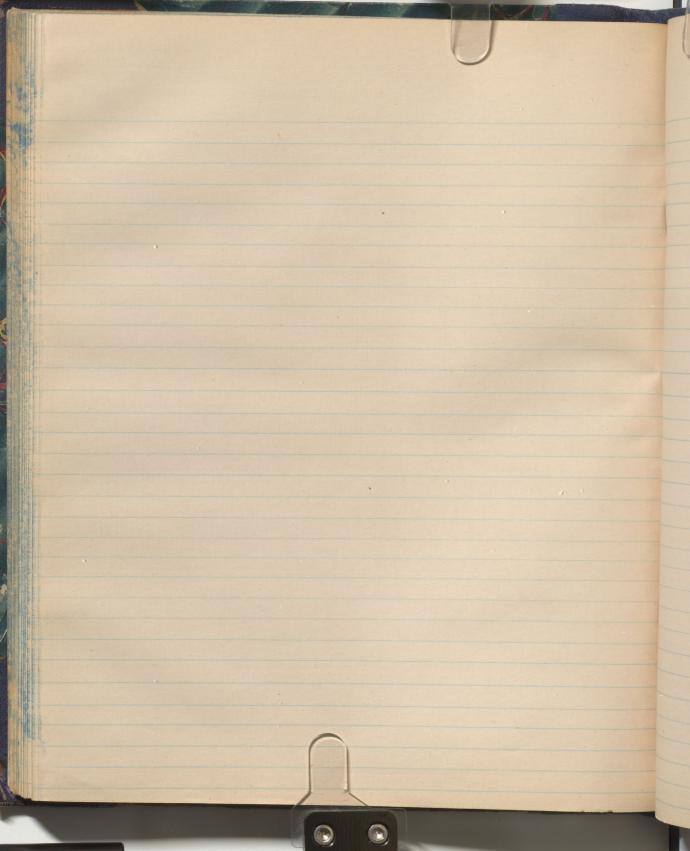


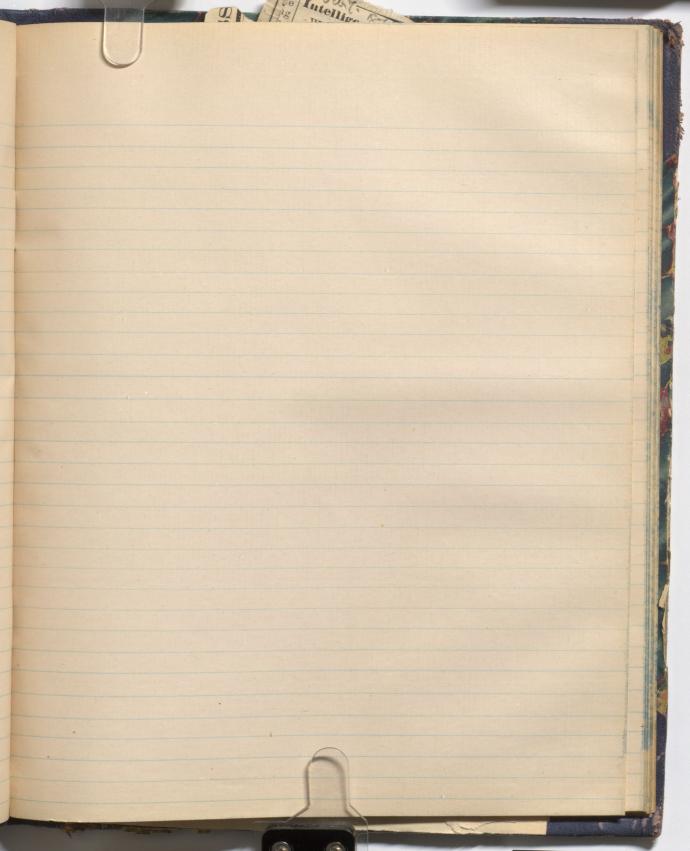


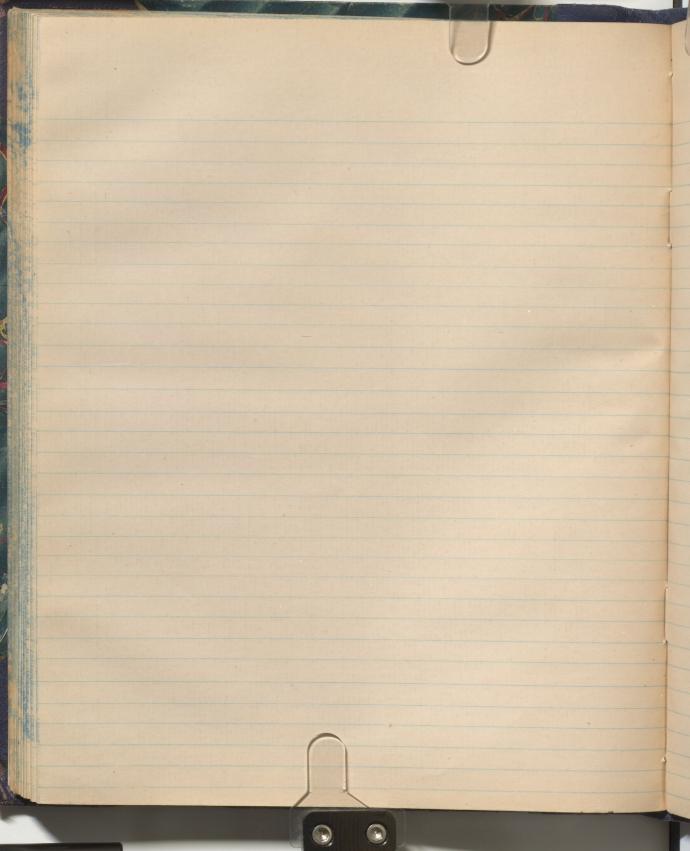


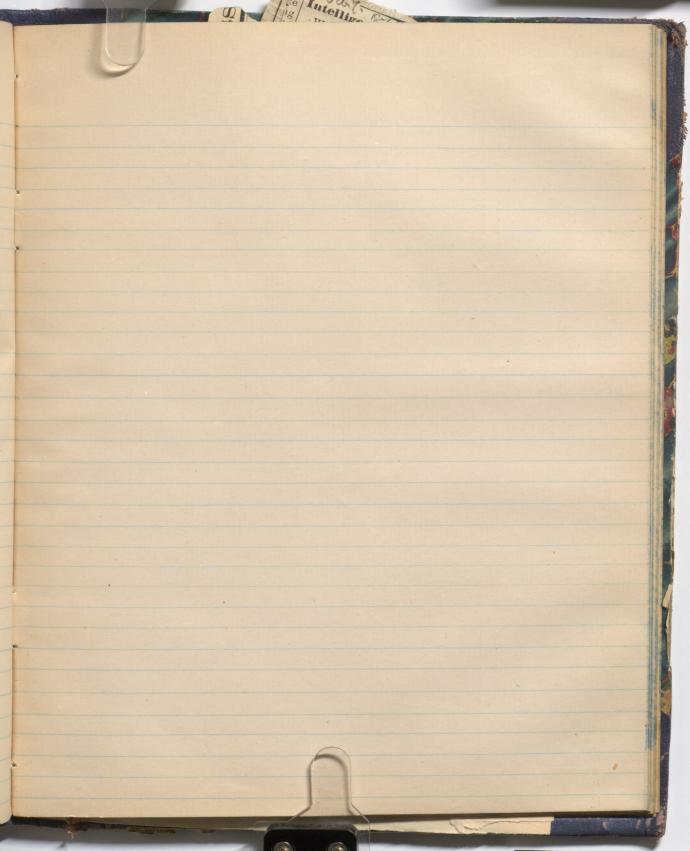


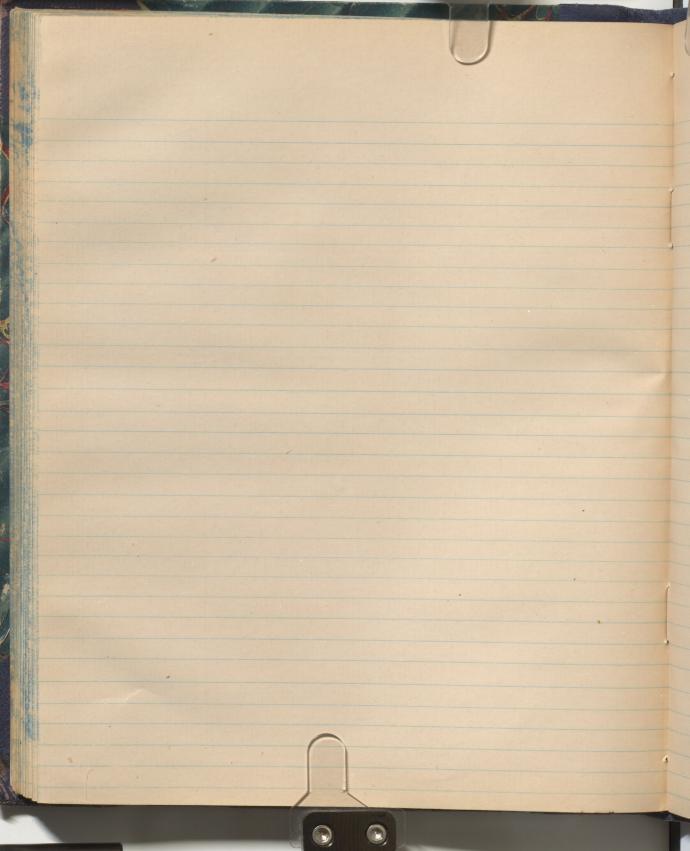


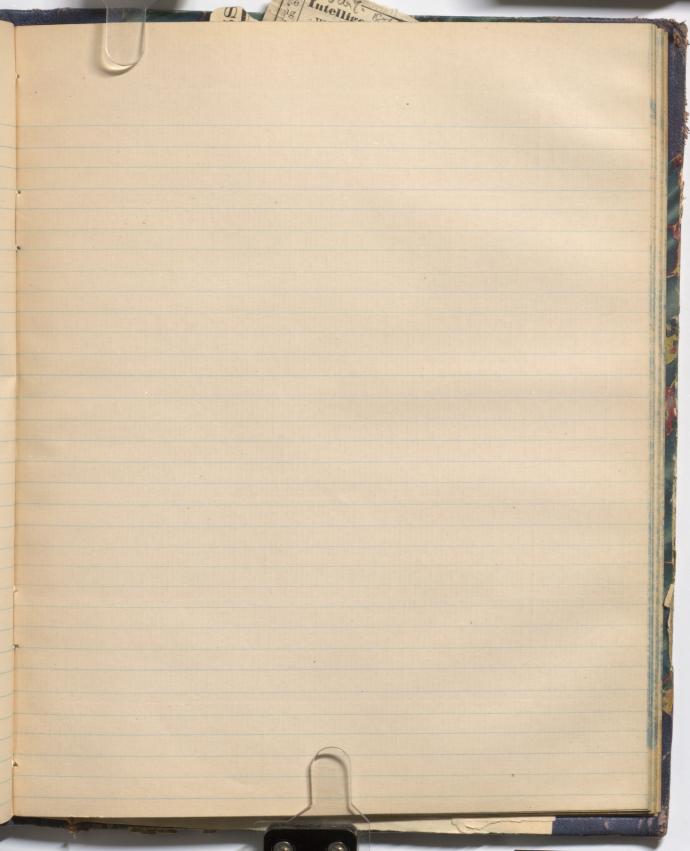


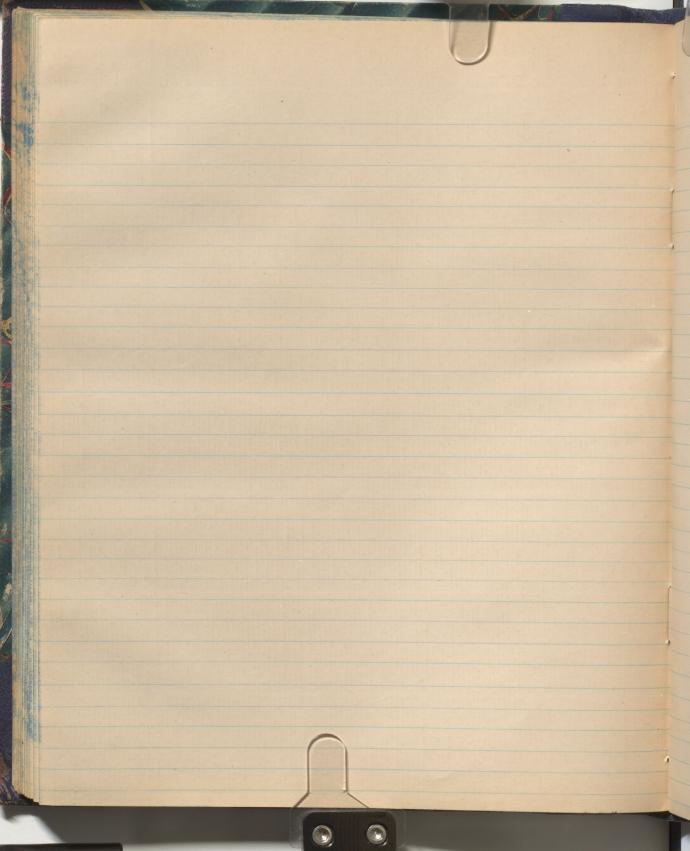


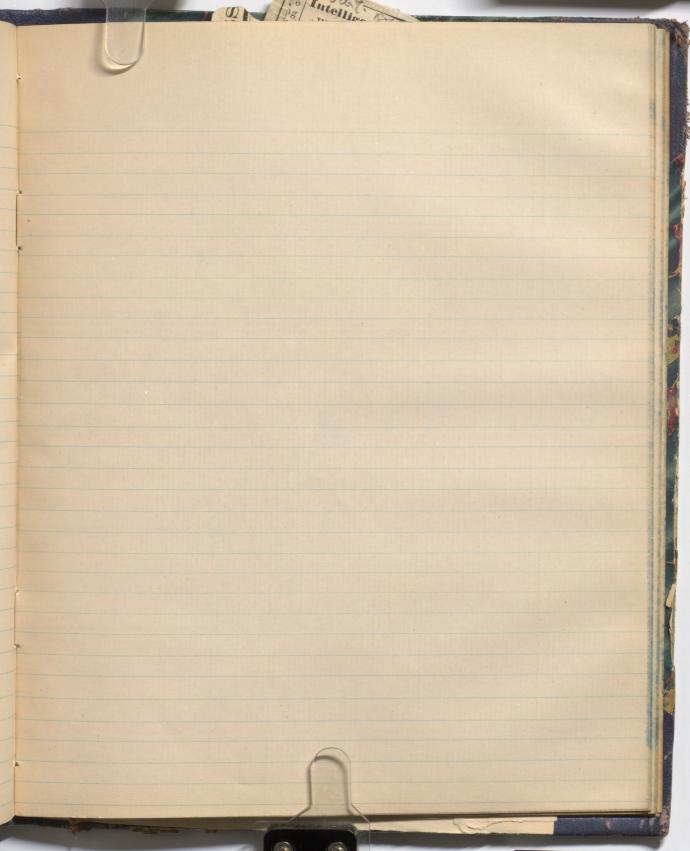


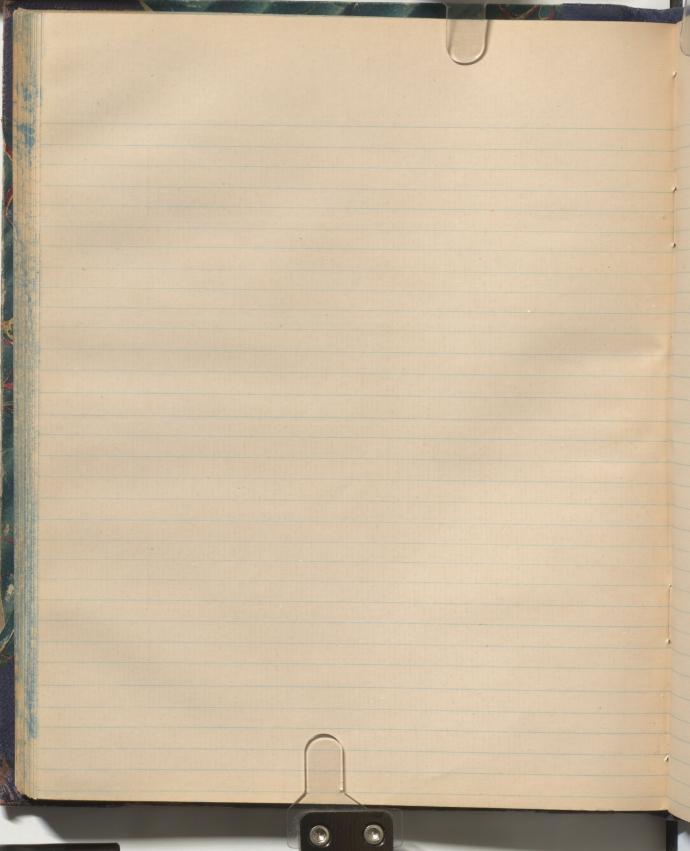


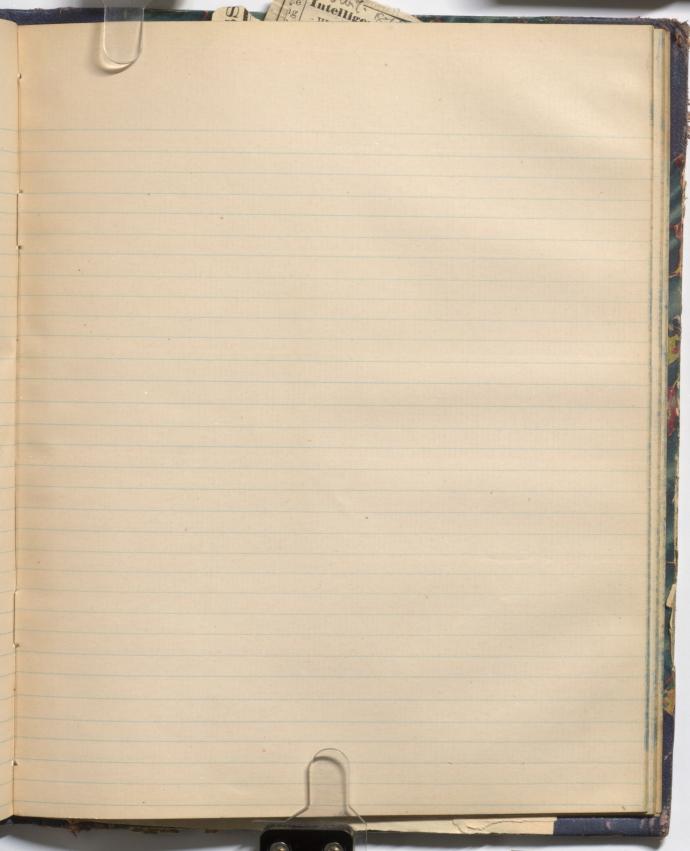


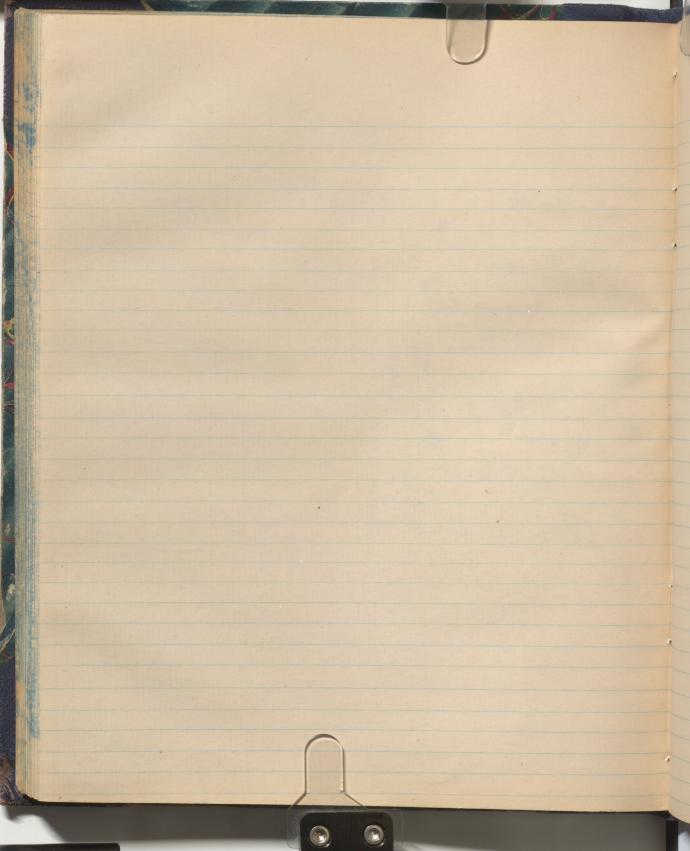


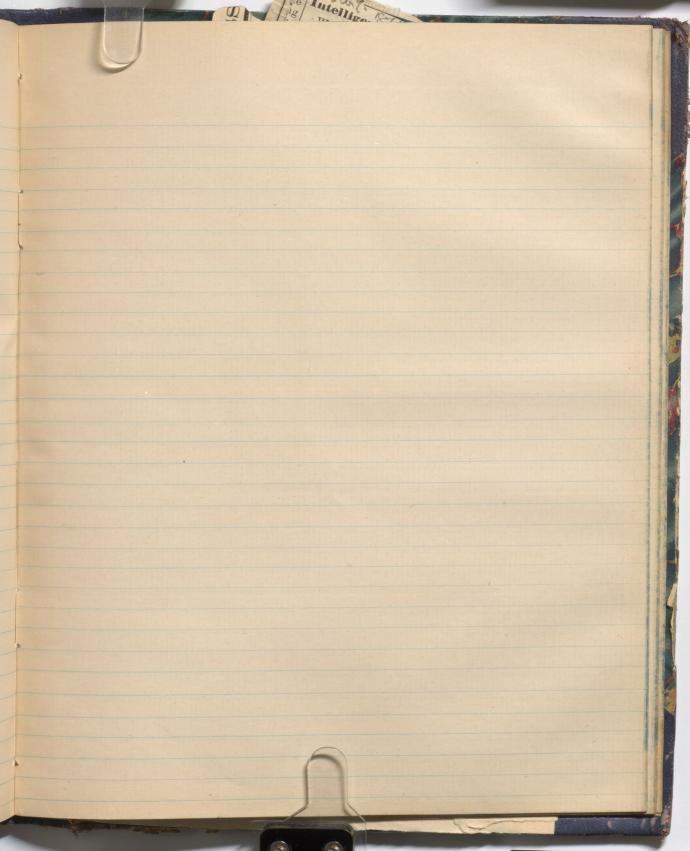


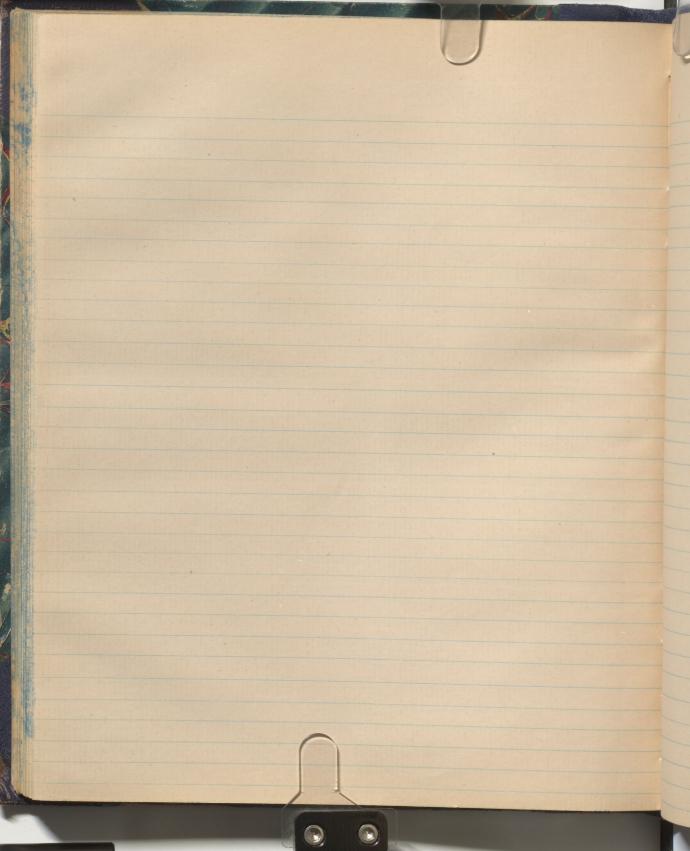


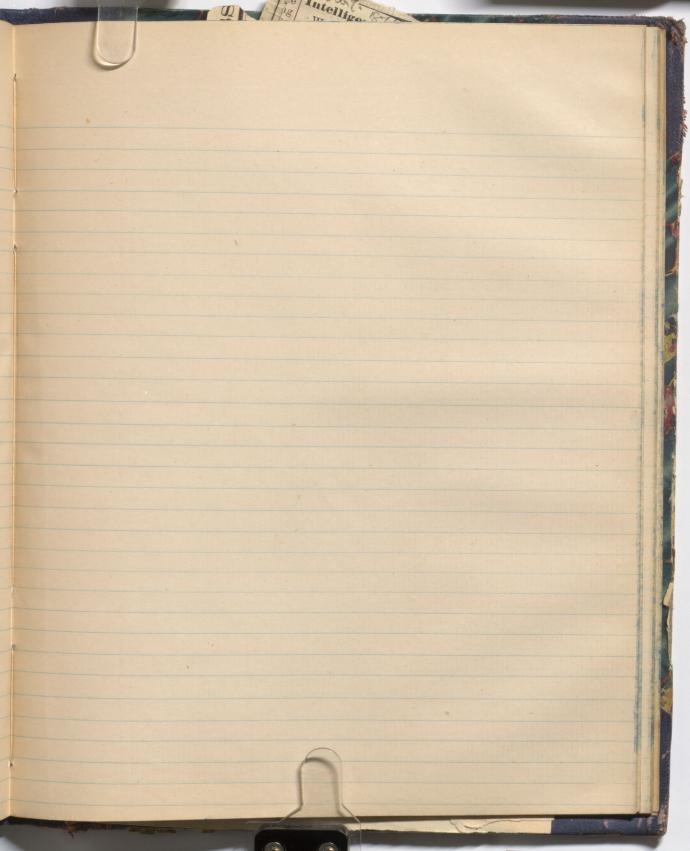


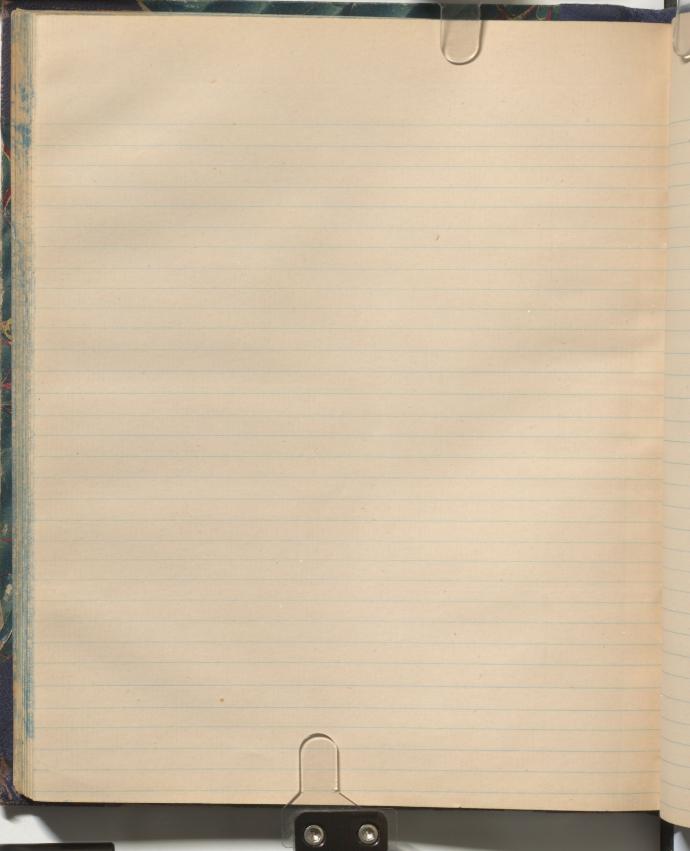


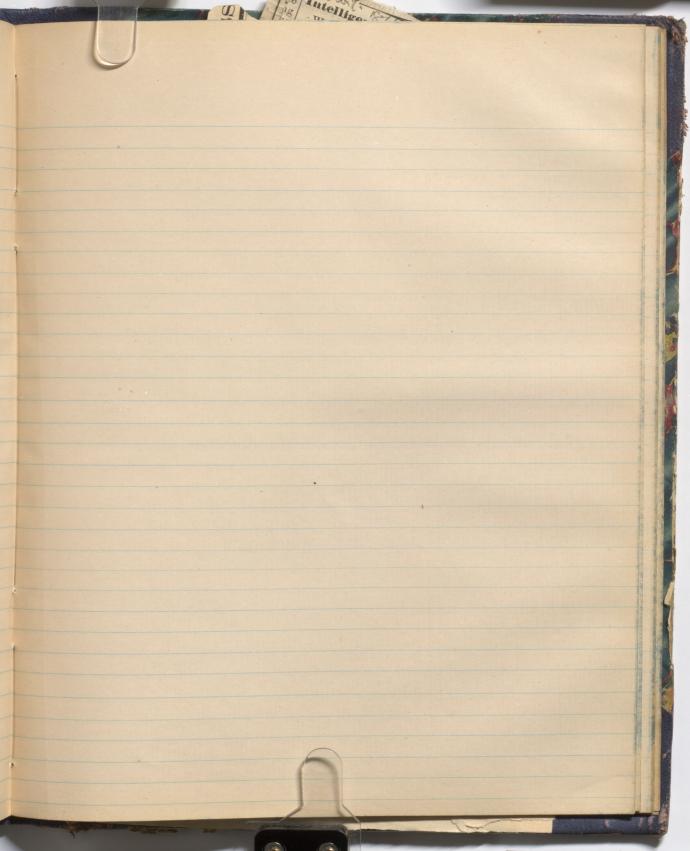


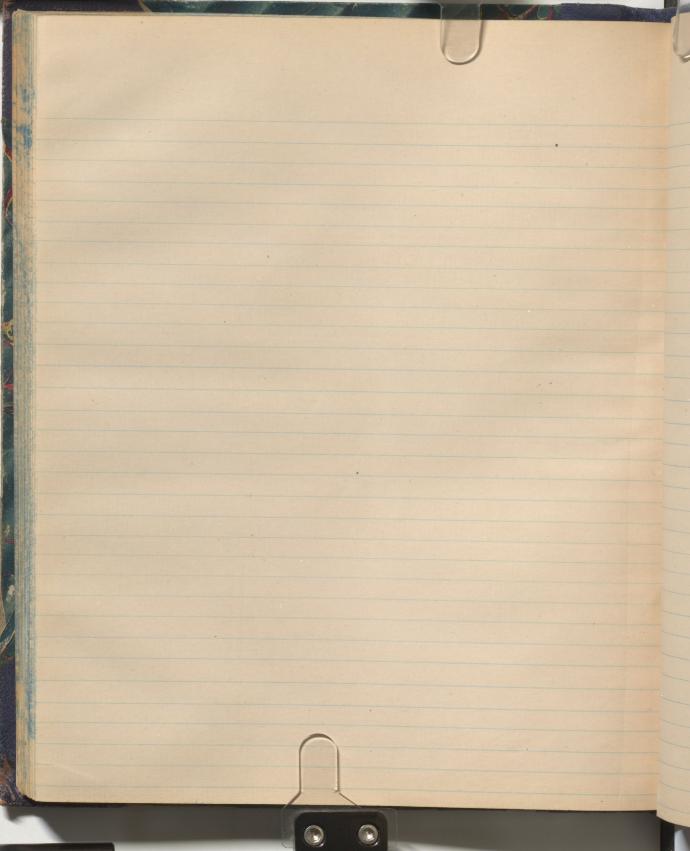


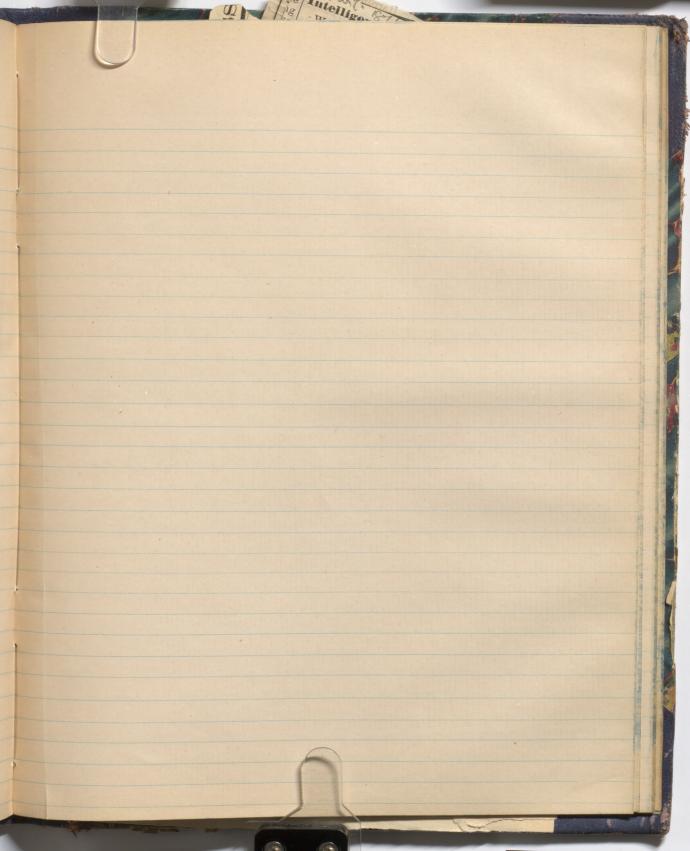


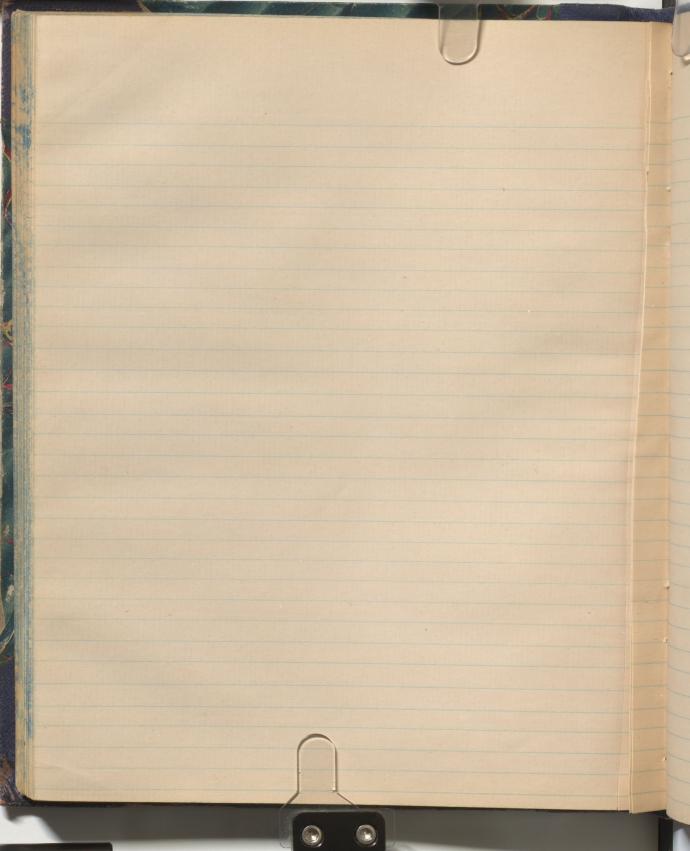


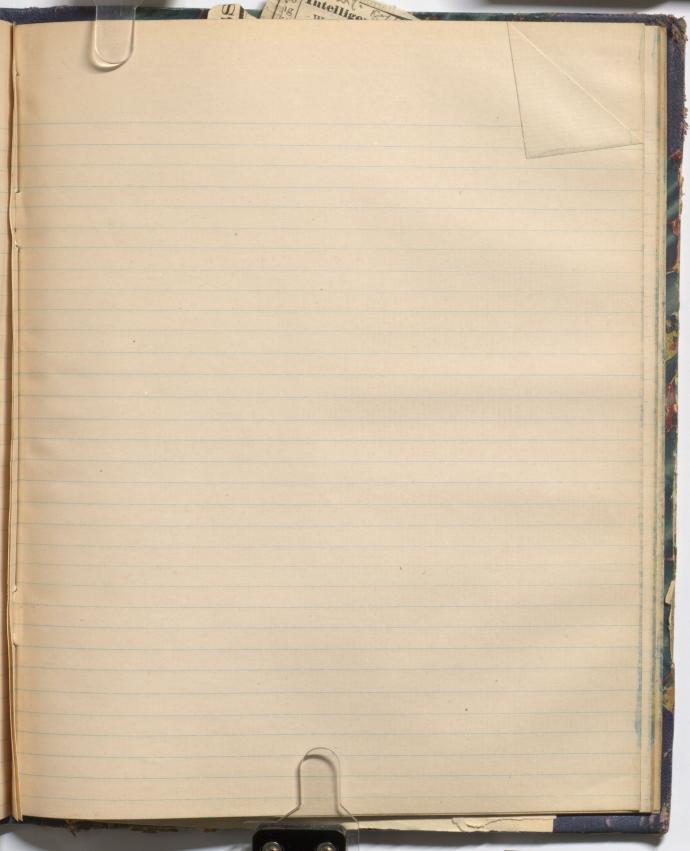


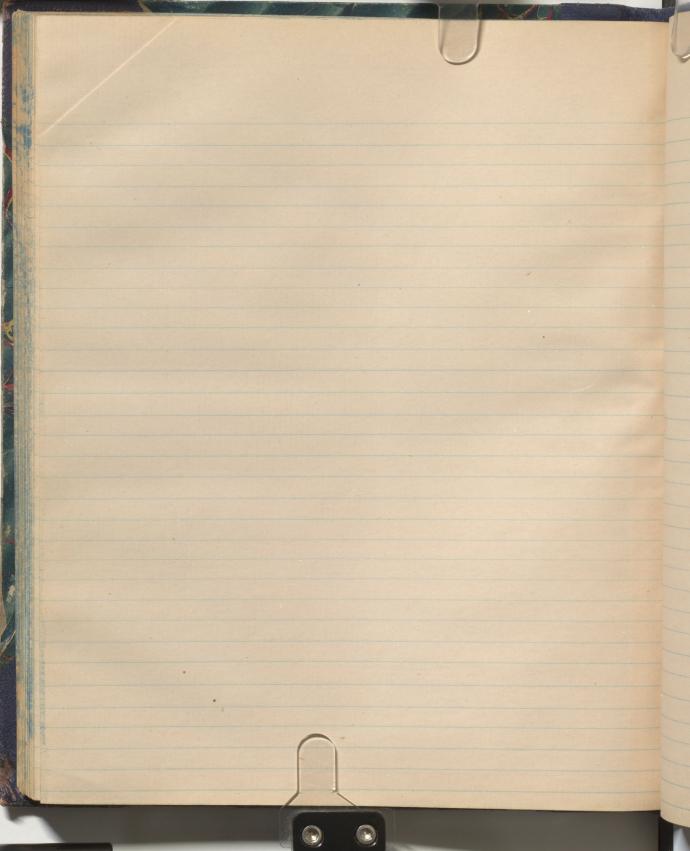


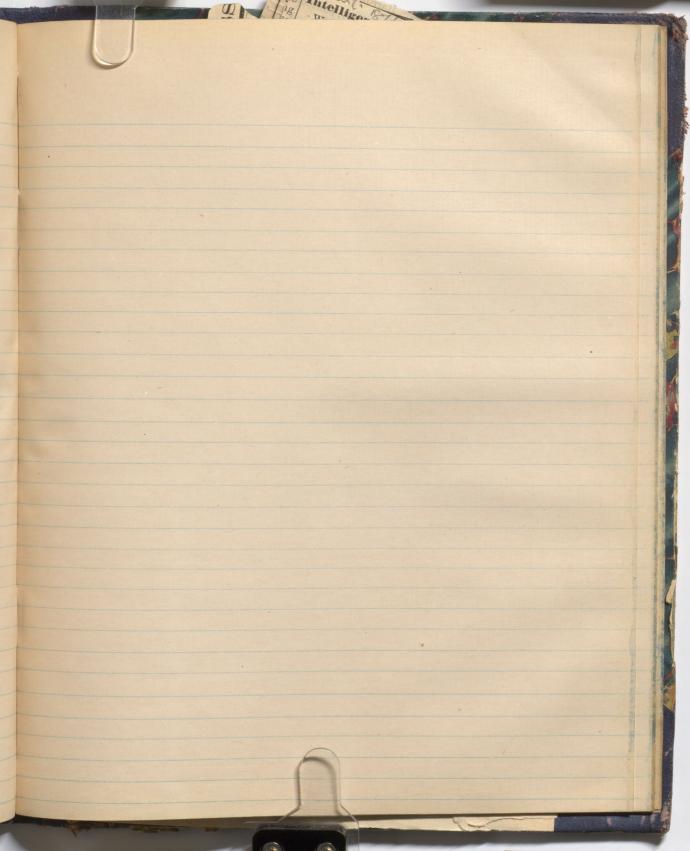


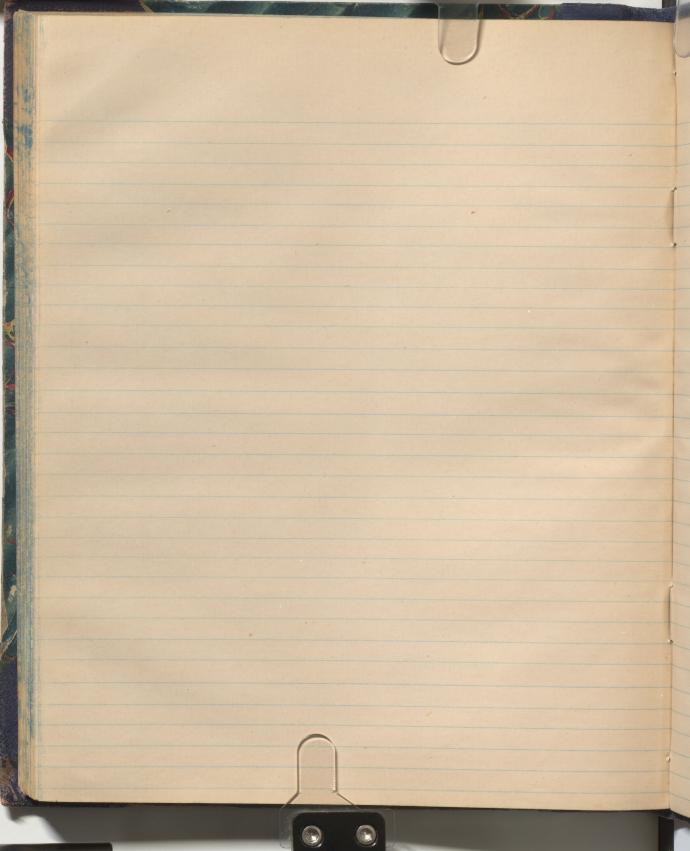


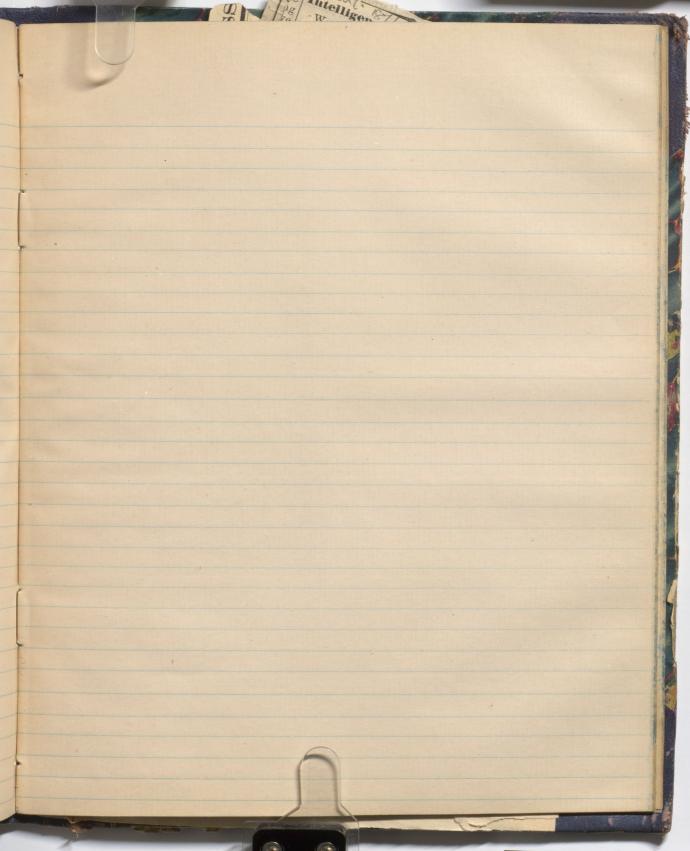


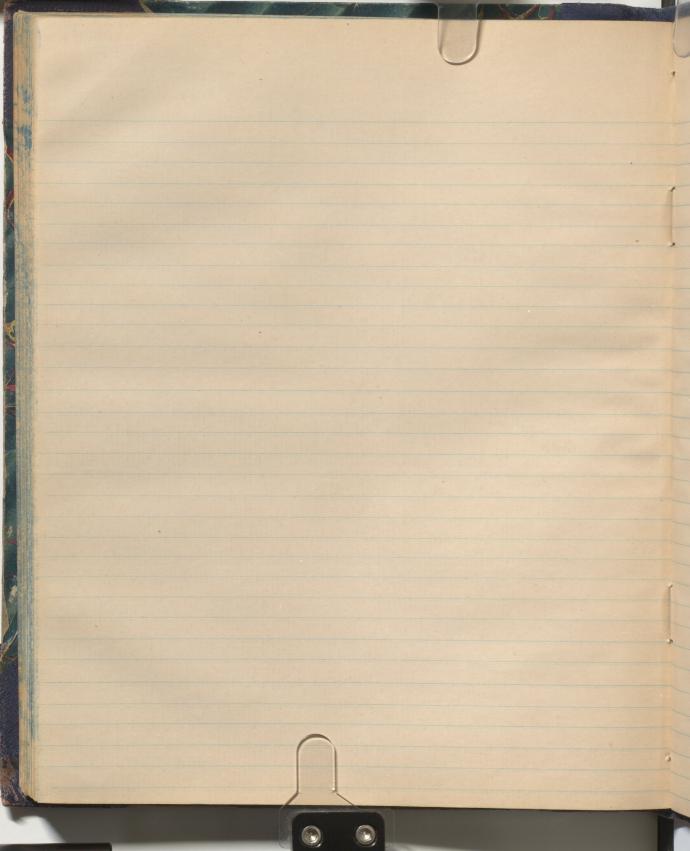


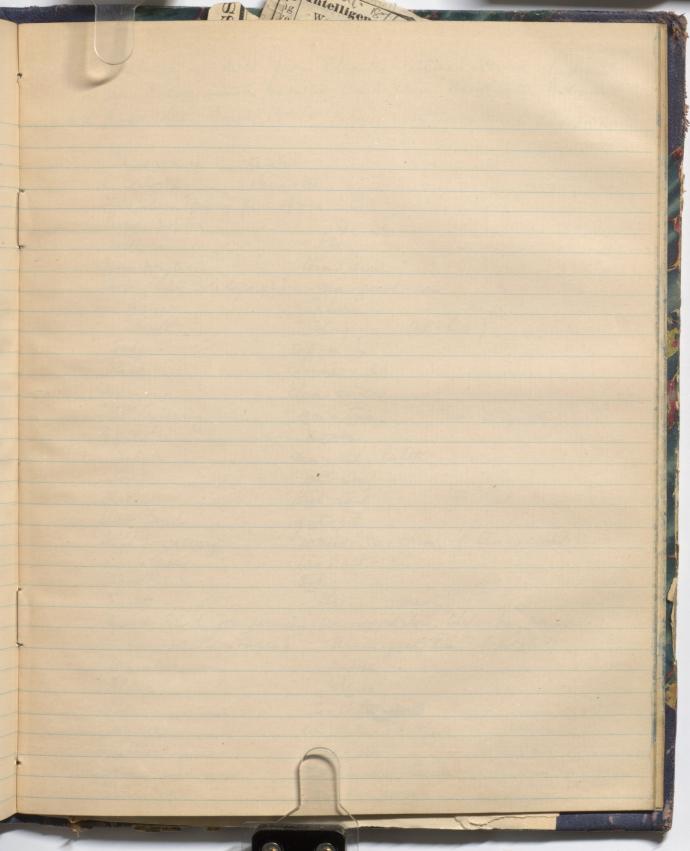


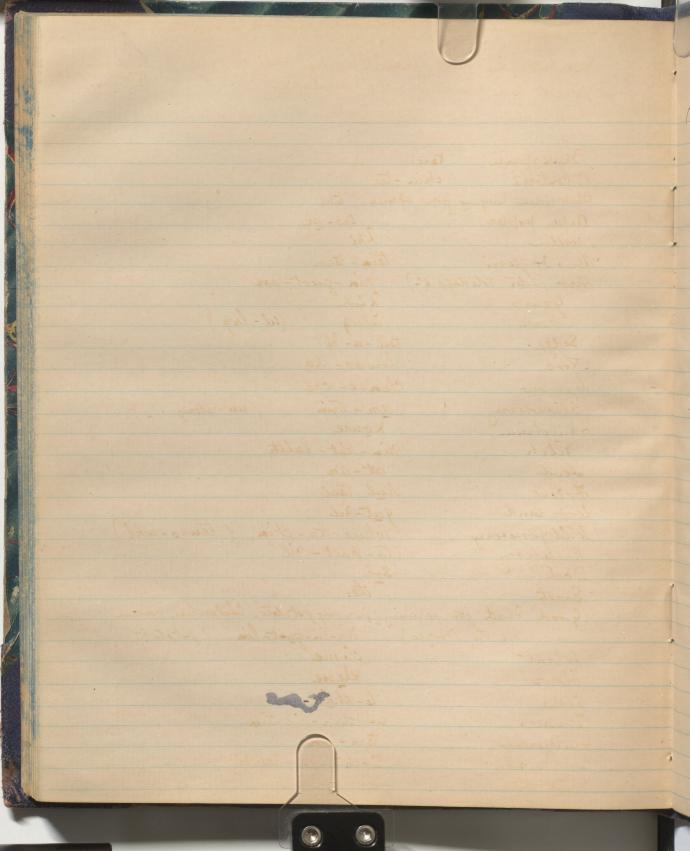












Vocabolary in dute from Charlie' alekis House Ludian. In pencil Correctioned parallel words from Bledweter Ludeaus. (In the penial chewn warks their () wear that tooor sawe as before wither) Black spruce chin-tee chin-ton touk P. Contorta Black lidens Langing from spruce tihl white Ospen poplar tas-pi bestom poplar landung Willow tsin-tsun
nin-guot-an yun-wod-an abus Douglassi Herb (aster Solidago d'=) kloh älug toil-a-hi grass Bark (ul-lug) a-lah Ledge hwush Rose howas - ka garrow Clun-e-ché Un - trin (un - tring - tau) in tre Strawberry Epilobium Kouse Yetch nin - Kut - Welth Teap at-an Kul toul il-toul Forest Wet land gut-zil whus-ka-chin (ten-o-whl) Wild foreterry Kupberry Ta-halt- 3il Dock (?) (nun) Earth Good Sarth for forming (from potators. Chelacter name for the rayco) Uz-in-quat-lin (potato?) Wheat oame klesse Hour te-chun-ka Stoes Klaz-us e- Iclah - hil - tin Trousers Tras och Handlerduf tros - och te-chin-ta-satsi clay pipse thes-e tse-le-gatsi booden pipe te-chin-ka-touch toi - Ka - touch Stone pipe

Stone tsi be Red til-til Green & yellow. tul-tour tul-toau Black Klit- is the-Rushe White Kle - yul - Kle-yul Blue tent - toak - til-Kus. Skin uz - 3 wz Glove batpat mirror pete - San - elin et - tuz-nale pe-seul- youe chil-jouk Comp Tent-Coh (pun quit-sit-an trun-dan Shirt matches te-Reich toul-lu Foracco ta-ka penl-so (tohin-il-Kutch) test Kuife Kunikinic tin-icht-an ne micht an Iron toa-toan (toa-toun) toa - toan - il - toau sheria - ad-cl-gun Gold brass &= toin - a - Koue Joh 5 haw Lat ? hi-tien-a-Koue hi-took paper tis-this tush-las thush-tois ashes this - tih Kan-ul-tout ut-ush Charcoal tedl-kuhl toutl mountain (Kil - Kouch - it-) Kul - Koue - chet Valley Beaver tsah chin -ich marten Sis-chez mink til-chus Chel-chis tut - nin Buck Skin man - chin thit-ichi nel-ussi Chil-ich Coyole Jarge black wolf nun yush Squirel tlick Mate nash-il-tick ya-ho-un-le Hot

mouse Klun ta-tyun Loon tan - toin ta-toin Goose huh Buck lün-uhl to Goose to notte) mollard tug-ui-choh While fish tra-tsich Sow put - ta - Kut - To Saw ut - taa - ta - Zut pa-da-da-gut ich Snow - Stoes - Sucks Ke-tul pitch - e-ta-las-tah guos-o-dah - a Seat To Set down tsin-lah mit-en-clat ted - in - you to get up - go awaw (imp) du-un-i-uhl ten - in - who eur neme - deepl while your - a bee us-tour Man (while wan) the - you toe-your purpose wears Indian ten-ne to-Kirl ten-ne - Judian ten - ne - en - in-chā tin ne - ct-cha. Big man a chief neitz-il-in mou-dich-neitz-il-in-cho ne-chil-e great chief Munor chief neity-il-in-quis ne-te-yas tin-ne-o-cont-lin
ap-pa
uh-pa People My father ap-pa a-Kul my mother ish-klu Ja-goul-tine-teen che-Roh woman Chil (skei pri hardoup) Chil (chil-accah-un) who kai - Boy wife Tsi - at-- Boys Chil - er - Kuh - Juls (te-deer-Kuh) ted-i-o-kuh Sis-Ki ti-et - my gool te-ct young woman the gul- tin ten-ne-attha-cou-te sawan - 'old man tsi-an-a-tas-si is - Si - tam - ancestors

tin-në-tuh (gspedking ta side man) Baby Sick man - 11-11 tell-Sa-ta-rut (speaking of absent sick man - Large Louise Con- fouin-cha go-who-cho - Laye stick tich - in - in - cha te-chin - tin - chi tich - in - in - Cout - Small Stick tel-tush-a Strong gun - zun Congo - Chit 40-who-chest - Old house Klin Kle-un dog Kle-cho - young dog Kun - Isun - Ban Chi-chih to shoot chaq-il-toh Pell with stick chan-ul hung well your close ha-hlen-neh) Kill ta-tyung - an wwy-gury Cold quel- Kush Cla - Chala - Sneh alive Kun - a - zul Warm wwy - ul Isun - Us ne-yun you thou nun - us She un -na he Ru - you lsa - us tsi-e They to - no - tus ten-il-tit. we arantsil -ta - 20 - lus un to-tus - We go un-ine-dubgun-un- e- yuhl) - go thou las - Ruich - he goes Gal - Kuh that Ku - ydn-gun-e nihl-te this nipl - tsa Something for away nihe - gul tsi - uh all Con-tlan tse-a-hush-un-til Ka- tse all form te-te-ne-than hean many the - Ki inl - he nan- Kuh nan Koh te ta-si tee tin-ge

5 is-Kun-la is-Kun-li utt-chun-ti it ku-taci itt - gun -ti - gut - git - in - the d-ta-gunl-te guh-in-il-te U-Kut-ting lan-ez-Cuk-z-un-la ut-chil - au- nel- nan lan-en-l-10 nat- " " nat-law-ex-e 20 tat " " tat u u u 30 tin " " " tet u u u 40 to-Kun-lah " " " " skunla " " 50 tā - wā - tā - hān - tāh / Said by one ruan - good bye fory away from a number) let ti- unti - Good day ho-lan-ā-uch in - Ko - ta - Pan - who Said by one man - good day Coming to many) Today Kun - Tois Kan-et-zin Forwarrow lith-Kun pun-te pun-te-a-pun Day ofter loworow ta-tsin - tsin utl-ta ult-ult-tan Gesterday yes no ah-uh ha toh our-tuh to wan-wan-he ut-tse-un they cat ut-ta-tonl yun-e-ge he eats the you-tat-ne ta - tzit - nan - they drink tout- ta - rul - tsi ta-ous-ta-tus-in-yut - Thirsty tas-nah la-tout-ni I dringe wy-nut-ti toin - e - tih dance tout-luch Chil-- il-- loch laugh ya-tsul-tuck ye - toil - tich Speech a- Cho-gal-tuck 4a - ti - stick I speak tent - thun Shin Sing

tsi- Kin tse-yahwa-chin tsut-le-ra-trl nan-is-te they Jung Very sleepy nhl- 7a - rin-ran Toe-yan-nanthey sleep but - la - rail - rhin an-is-tig he sleeps nhl-in hun-itl-in to see tsin-ikl-in tse-ya-na-nett-la the Lee tin-il-hlan Ko-Sio-tin you-nis-te all see to wish Kla-gos-tin tout-us-nick not- twish pa-na-Sun love tun-es-tun-as-tuhl To Kell a man ut-les-un-til Clen-tout-nek 5 Wrestle toi - utt toi- utt (ut- toin - unl- e) un-dun-is-ti not so sood to walk to steal lun-dun-is-ti tin-ne-nun-toun nen-tri-a-den Bad man nan-il-luh n-gan-e-i(sine) you to give? 1ku - tik to give tout-toa tout-toa to cry tai-a-tail-tich tsi-a-whut-Sa - they Cry pe-unity-ho-tus yes-cle-pende-e-yon-clay-ril yes-cle-cus tate Spurs = Kick horse - Saddle e-yon - clay - ya - hil - yuh yes-cles-e-e-yon - clain - Kuhl yes-le- white - bridle - Cariette Ka - til tun-as-tilt-is youngs - a - Keen yuy-cle - Sterrys horse - to Shy nel - Kil Rabbet Koh -140h fly mos guito as - trus 1. Tras tsih

O Welligens Snake Kla - Us - Sin Kla-gus Egg Short-feathers ah - ris put-hun chus, & sh tah Long feathers . ut-ah put-tah longo Cloe Fish cluk traman ta-lup con Salmon My house Village Church Suc-Koh Ses-Kuh Kuh Koh Koh-a-li hunta-e-a-cul-ta-a-koh- le-clis - Priesto house yaka - stop - ialte - a- Koh mon-si us sa us sa tad- toan - kuh the-te Ka-yah K Kettle Bow arrow Rugh tryin-the tre-tal tout - atrite to se-se-tal mi my are My Krufe ESu - peul - 80 tre- se-tis (tesh Kinge) tol Canol hun- as hui-yes Raft Kih Keen-kot noccasius truc - Cotsu tois-ta-got-toi my pipe yestah yat-ah yah Stay Sum Stars tous toah Sun ut-Swn ut-sun meat Fat a-Roh a- Kuh Kle Kleen Bear Sus Sus nan-Kury nan-chis to For is-tse neitsa der pun-da-ta Ka-pun Survise tsan - as tet-nen midday

hut-leigh ma-ei Evening atle tois night-Spring autumn midsummer lan tie I sher-in ta-git Rain na-goulte na-whil-tan Winter hui nun-toe ta-toe Wind ind-nein teit-neik Thunder und - neta - ush teit - neik - a - ku Lightning Snow yus kun kwun Fire toh to tun Water Ice -Ja-tu - Ca-hun-cha Sist The Sea. River tsa-rin-Kut

ping

klue

klue Creek Lake Prairie Island not neu la-sal le-sel - Sall-Sat-Sun a-tes Iron Bone (as ydier) a-Kut tsun ten-ad-sun ma-chun Foot ten-me-al-kuh per-ke ne - Keil - a - Chō quil-a ne - Keil - a - neez - Big toe - Second toe Theid toe - Fourth low Small toe ne-Keil - ad - sut Seez's foola-Kuh Belly (human) ten-në-put pa-put Temale breasts ten-ne- adsor put-yu 'ten-ne-e-til. Ski Blood (human

toil- lus toil-et-toi Friend Friend (aged) toun - a Friend (all wan speaking to your pieud) trich - eil Friend old man or woman to long woman to sit - els Head (human) ten-ne-a-tza mut-ta ne-ta-ra ne-ta-ga Beard or Weskers ten-no-nin ne-nin Face (human) neity - e - Kulh nin-in-tack ForeLead neitz - a neit-bya Ear ton sie- ten-eena min-a Eye (human) ten-ne-neutz-en me-nintace Toute ten-ne-azz ne-nick mouth Sus-i ses-ick - your mouth Several opinion Gadt Fel-tick tsi-a-na-den gads-a-tick you noste One mais Speech matzole tru-la Longue ten- mat a-o-on me-gou Leeth (human) len - a - o - Kts ne-gel-tyon Neck naz-a-whl na-yul Ihrvat ten - ne - a- Kon ne- Run arm (human) ten-ne-luh ni-lah Hand (") neil-a-Sut nil-a + Bruks - Lette fuger neil-a-Suh Kul - Third fuger neil-a-neur Second priger neil - as - Kut-- First prizer neil - a - Cho neil - a = Kun Kil-a-Kin - Juger nails ten - a - mus ne-ye - Body (human?) ten-ne-a-lat-- Boue (human) tein-tsel-esa - January (Parje Pagle sworth) min - chus Tebruary (or Job?

months rather uncertain march (hunt-deer mouth) pun- sin yes-ad-Elch May (young deer month) in-clay-a-zuh august - (Solenon Worth) _ toamandoa Seplember (wind month) tan-tsa-hasa pun-in-atsi November (talking Month) pun-in-Klest Kun-asty-Secenter Keitz- Kun- eitz December (ice moon) Kal-cisa words from Lanny' Blackwater Ludian. Moon tspin-a-son- 3a Sun October cle-ct-ne ta-geth - nan-ta-tet Morenter mil - chih - cha December January pun - un - saz - ul - tul - tais Februar hei-clous-a march. ta-ras-til aprel en-a-ttas May Snou Shen - ous - a June Jul tuc-cous-ous-a much perhaps august ne - chul September tal-ou-fous-a man - the - cho many poh

Of the state of th Words pour Blackwater Ludiairs, including a carried list-gete months. bag - is - li prairie Len. il-tutl-e Spruce partridge: tich ruffed prouse. W- Sutus - un the-te Cun the -te-un protol. Seh Cost topak thut Hauket. mal-teh Yest Do-Kie is Januar. food - we hour - - - A october pun toa - house Clou - housa ta-gesting-ei la-gus-e ta-cas-til te-chest nin- at-las Ken - ous - a tu - cous - un-trja ne-chun tal - ou - durina nan-cle-cho non de 30

freades yet-takpleades sum-ne-tan-ne

additional words from Blackwater Indians Lichen (awood) tan - thur

Lichen (on store) toe-gus-ul-chus

Moss ylarn-pā

Green scum on watu ylake Pun-chaw ta-toa

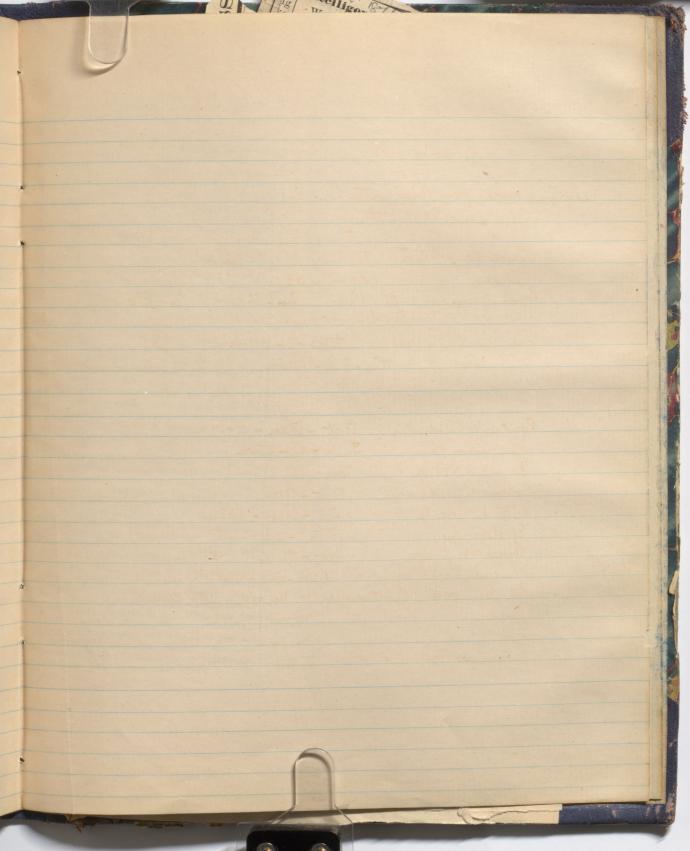
Grave toun-gut

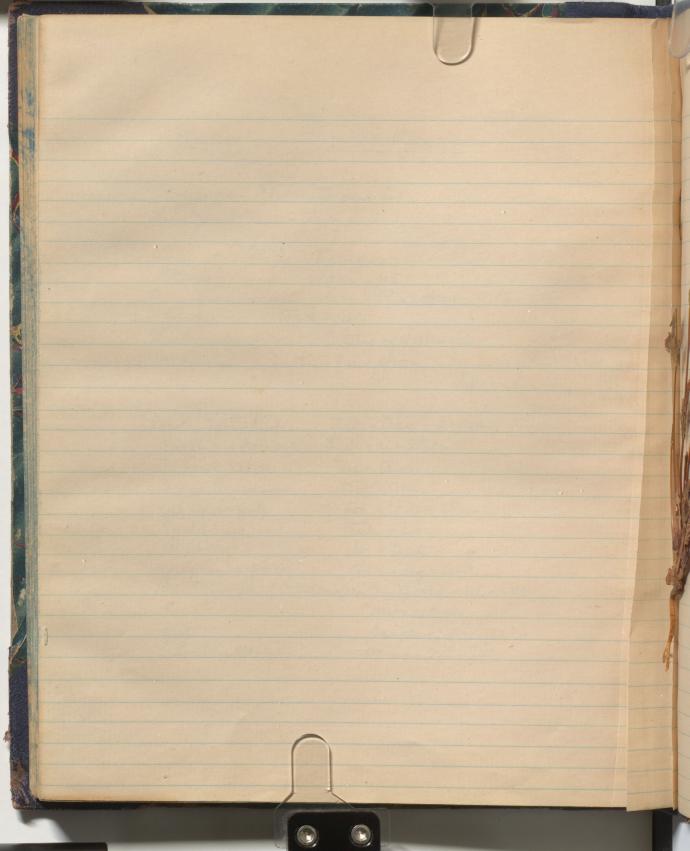
Sud Capsules of moss tous-e-chuck

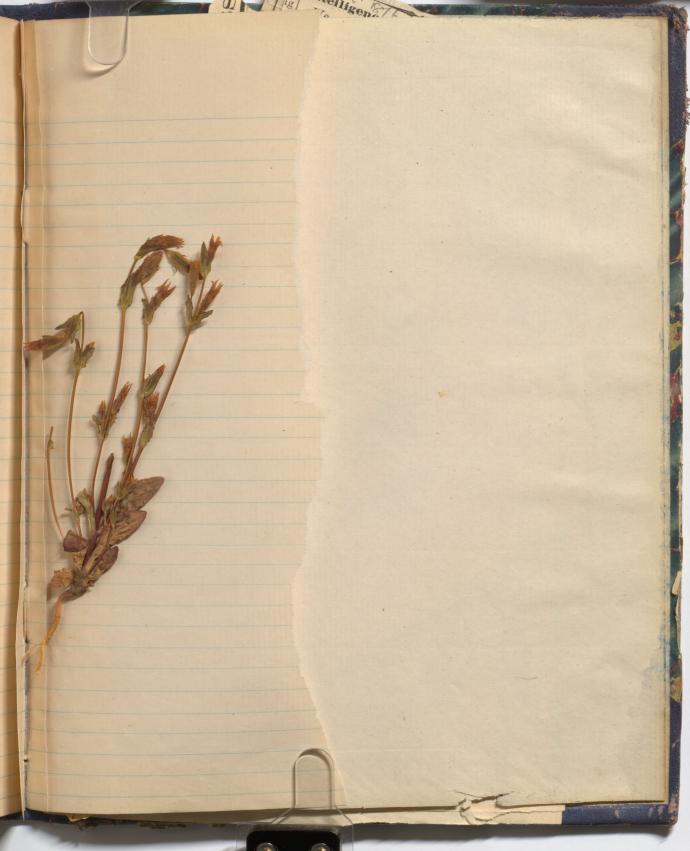
Mahonia tal-gal-chin (Lyunian ylans und for

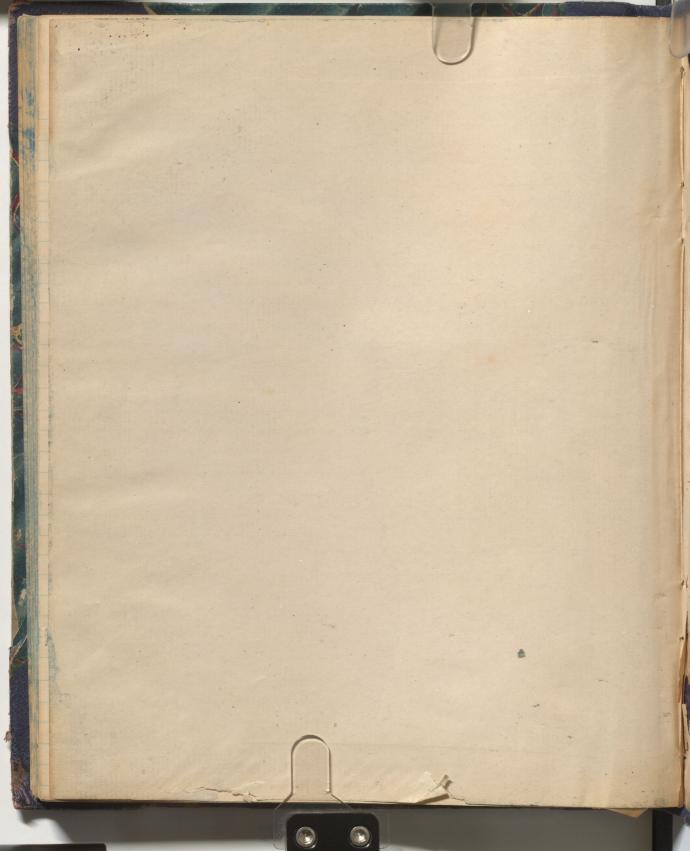
lye mediane)

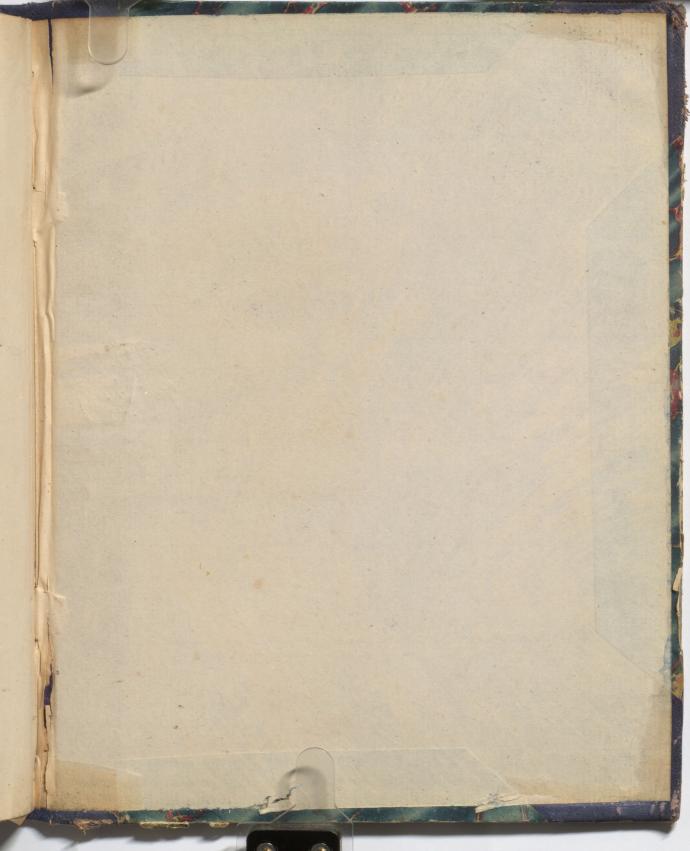
tsat - tsau - a - tan Pyrola rotundifolia Geranium Fremonti. Juck - ai - Kun bild pea a retch tou-thul Cornus Canadensis toit-mi tal - chos - chin Galium boreale Epilobium ruh - as Blueberry ilt - trul Flowery raspberry clan-ing-cut-Red dog-wood (C. Stolunijera) Kund - Ul - Kun min-chuh ne-pa (= pa-pa) Soul or spir dmoud-nil-Tuz.

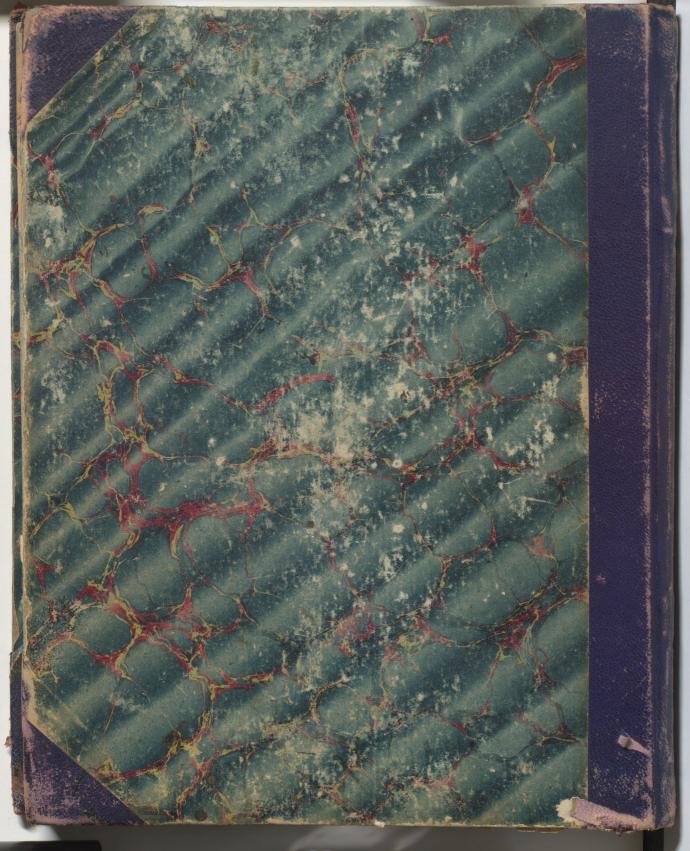














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ne ust Dick & Banning, Agents, Winnipeg.

SPRING, 1876.

NEW GOODS.

P. R. Young has now received and opened out a very fine stock of

DRY GOODS.

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Which took first MEDAL and DIPLOMA over English, French and American competition at the World's Fair, Santiago, Chili, S.A., 1875, cutting out of logs refused by the others, 1060 feet inch lumber in 40 minutes, edging it with large saw in same time.

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Gent—Your millwright, Mr. John Welsh, has started our 20 h. p. mill, and everything works very satisfactory, having sawn 1233 feet inch lumber in the space of thirty minutes.
JOHN NICKERSON, of Simcoe, Proprietor.
W. L. DICK, Lyndoch, Manager.
References in Manitoba:—Dick & Banning, Winnipeg, 20 h. p. mill; Macaulay & Jarvis, Winnipeg, large double mill; Chisholm & Bubar, Totogan, 25 h. p. mill; C. P. Brown, Westbourne, 20 h. p. mill and portable grist mill; Hugh Sutherland, Manager Government mill, Battle River, 20 h. p. mill; Kenny & Luxton, FREE PRESS, 5 h. p.; W. R. Chambers, Winnipeg, 5 h. p.



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of something more to eat. Now, as to the around on the surface apparently in pursuit a multitude of the fat little red bugs prancing had been transformed by these parasites into a quantity of loose soil, mingled with the remnants of discolored egg shells, with the remnants of discolored egg shells, with fles, or rather a louse, resembling the latter ales, or rather a louse, resembling the latter ales, or rather a louse, resembling the latter Governor Stephen Miller has forwarded to President Drake, of the St. Paul & Sioux Gity road, a box full of earth which original. It contained grasshopper eags, but which It wontained grasshopper eags. and destructive insect next year. This bug is of a deep red color, about the size of a exemption from the ravages of this voracious destroying all the eggs laid by the grasshop-pers this year, thus ensuring Minnesota an A remedy is at hand in the shape of an egg-eating bug, which is surely and certainly

the settlers' fell enemy:phant progress of a new-found destroyer of upon the following account of the triumthe information condensed above, we come Paul Pioneer-Press, in which we meet with picture, and in the same issue of the St. ever, a bright as well as a dark side to the aged as they, year after year, witness the destruction of their crops. There is, how Minnesota, who might well become discoun is disheartening enough for the people c It will be admitted that the above accoun

is the greatest sunerer.

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Gold Brooches Ear Rings Lockets

Rings, Etc Ladies' and Gents' Gold Chains Gold Pens and Pencils Gold Solitaires and Shirt Studs

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VICKERSON, of Singeoe, Proprietor.

DICK, Lyndoch, Manager.

mnipeg, 20 h. p. mill; Macaulay & Jarvis, asr, Totogan, 25 h. p. mill; C. P. Brown, and the space of the space of

LYNDOCK, Ontario, May 17, 1876.

English, French and American competition utting out of logs refused by the others, Juli large saw in same time.

ent Portable Sawmill,

R. YOUNG, 182-196

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THE BANE AND ITS ANTIDOTE.

Though Manitoba is now happily free from the grasshopper plague and may look forward with some confidence to immunity from the scourge in future, we cannot withhold our sympathy from the settlers in certain parts of Minnesota who are in less happy circumstances. While the farmers of this Province can rejoice this year in overflowing granaries, the contents of which will find a home market at remunerative prices, they will doubtless take some interest in the troubles of agriculturists in the State to the south of us, albeit the scene of disaster is some hundreds of miles from our own more favored land.

We are not inclined, as a rule, to place much confidence in the reports which reach the newspapers from independent sources on a subject like this, as they are far too frequently of an alarmist and exaggerated character. We have now, however, an official account before us which affords trustworthy data respecting the extent and ocality of the disaster in the State of Minnesota. About a fortnight since, Governor Pillsbury commissioned the Hon. D. Bassett, of St. Paul, to traverse the devastated territory, to ascertain and report the facts. Mr. Bassett went out on the Sioux City road, and first saw grasshoppers in considerable numbers at St. Peters, but no great damage seemed to have been done, until Watonwan county was reached. Leaving the railroad at St. James, Mr. Bassett procured a team and thoroughly traversed the counties of Watonwan, Cottonwood, Brown, Ronville

utility and complete success of these bugs as destroyers of the grasshopper eggs there would seem to be no doubt in the minds of those who have given the subject a general examination, as well as of those who have personally inspected their mode of operation and the places where they have already utterly destroyed the eggs laid by the hoppers a few weeks ago.

SOME PROOF ON THIS POINT.

is furnished in the letter of Governor Miller alluded to above, dated on Wednesday, and written at Windom. Governor Miller says:

'Last evening when we reached Worthington from Lake Shetek, there was quite an excitement in Worthington, owing to the fact that the citizens were generally convinced that a red parasite was destroying the grasshopper eggs. I examined the matter carefully myself, and became convinced that the destruction of the eggs in that immediate vicinity was well assured; but I determined not to write you and excite any hope until a further and more complete examination could be had. We therefore furnished our Bohemian friends with a bottle of eggs, and their pests, and the commission left in high spirits. We postponed further investigation until this morning, when I left and prosecuted the examination with vigor. The farmers in the vicinity knew nothing of these signs of deliverance until the visitors from Worthington reached them, and I feel safe in saying to you that in a circle of ten miles from Worthington there will scarcely be an egg left by to-morrow night. I send you a bottle herewith containing the cones and the parasites. We could scarcely find a cone, or sack, except as they were indicated by the parasite on the surface; and each cone which was not entirely destroyed had from five to fifty red laborers at work upon the eggs. We found scores of cells with no eggs left except the shells. As soon as the bug finishes one cone it starts upon an expedition for more worlds to conquer, and in instinctively finds and conquers the new world. I. of course, informed our station agents and and others at Hersey and Heron Lake of this discovery, and they also promised to make a thorough investigation, as I will do here, and the results will be reported forthwith. If the matter is general, deliverance is nigh. * * * I stopped for fifteen minutes one and a half miles west of Wilder, where Section Foreman Smith took me to that portion of his farm where eggs were deposited. We could find none by general digging, but wherever we found, frequently did, the red parasite on the surface, we found the cone beneath, with the parasite at work consuming the eggs.

I am aware that two years ago this parasite was found working upon the eggs at Madelia and other places, but here we have the remedy almost as soon as the eggs are laid, while in the former instances the parasite was only discovered in the spring."

Since the letter from which the foregoing is an extract was written, Governor Miller has received a despatch from a gentleman at Heron Lake, in which the latter says:—
"I find that parties were in town this morning, talking about the red insect which is effectually destroying the grasshopper eggs. They were found three miles east of here, and also four miles southwest, and all engaged in eating the eggs. I will at once have further examinations made in other directions, and report to-morrow."

WHAT SHOULD BE DONE NEXT.

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Redwood, Yellow Medicine, Chippewa, Stevens, Kandiyohi, Wilkin, Otter Tail, and Swift. He finds that in all of the above and so far as he could learn, in the counties south and west of them to the Iowa and Dakota lines, that at least one half the crops are destroyed. Owing to the drought which prevailed during the early part of the season the yield would have been comparatively light, and with the grasshopper plague added he is of the opinion that eight to ten bushels of wheat per acre is the utmost that will be realized, upon an average, throughout theentire region above referred to. Most of the farmers are comfortably provided with stock of various kinds, but many of them were obliged last spring to either sell their stock or mortgage it to procure seed and the means of maintaining their families until harvest time, only to find themselves with no crop to harvest. The wheat harvest is substantially finished (though the grain is not yet stacked) and what there is of it is in Mr. Bassett's observations good condition. extended through a strip of territory about two hundred miles in length and one hundred miles in breadth in Minnesota, and the extent of damage beyond the Iowa and Dakota lines must also be considerable. Through all this territory the hoppers have deposited their eggs, giving the farmers every reason to fear a renewal of the plague another season, unless they should hatch this fall, and freeze to death. On the line of the Sioux City road, Watonwan county has suffered most severely, and on the line of the St. Paul & Pacific, Kandiyohi county is the greatest sufferer.

It will be admitted that the above account is disheartening enough for the people of Minnesota, who might well become discouraged as they, year after year, witness the destruction of their crops. There is, however, a bright as well as a dark side to the picture, and in the same issue of the St. Paul Pioneer-Press, in which we meet with the information condensed above, we come upon the following account of the triumphant progress of a new-found destroyer of the settlers' fell enemy :-

A remedy is at hand in the shape of an egg-eating bug, which is surely and certainly destroying all the eggs laid by the grasshop-pers this year, thus ensuring Minnesota an exemption from the ravages of this voracious and destructive insect next year. This bug is of a deep red color, about the size of a flea, or rather a louse, resembling the latter also in its shape and movements. Ex-Governor Stephen Miller has forwarded to President Drake, of the St. Paul & Sioux City road, a box full of earth which originally contained grasshopper eggs, but which had been transformed by these parasites into a quantity of loose soil, mingled with the remnants of discolored egg shells, with a multitude of the fat little red bugs prancing around on the surface apparently in pursuit be ready to take her of something more to eat. Now, as to the time for the next trip.

and Sioux City, the Winona and St. Peter, Southern Minnesota and St. Paul & Pacific railroads should, and, no doubt will, take prompt measures to have this important matter thoroughly and properly investigated and the facts made known to the public without delay. There can scarcely be a doubt that an antidote for the grasshopper pest has at last been furnished by nature, and the fact that there is no likelihood of any extended damage from the grasshoppers next year should be widely circulated. In addition to this collection of information on the operations of the parasite, every man owning an acre of unbroken land should at once strike out boldly and plough for a crop next season. The damage inflicted by the grasshoppers during the present and previous years can by this means be measurably repaired next year. Certainly the signs are hopeful that Minnesota will at last be relieved of one misfortuue that has afflicted it for several pears, not alone in the destruc-tion of a portion of its valuable crops, but also in the uncertainty and demoralization which have attended the annual visitation of the infernal grasshoppers. blessing let us all give thanks.

THE Merchant Shipping Bill, respecting which so much interest has been taken in Canada, was finally passed by the Imperial Parliament to the satisfaction of Candians. The Commons carried one important amendment against the Lords. Having accomplished the end for which he was specially sent by the Dominion Government, Mr. Smith, Deputy Minister of Marine, sailed for Canada on the 17th ult. The Hon. Edward Blake, whose assistance had doubtless been given o Mr. Smith in accomplishing his task, was to sail on the 24th.

LOCAL AND PROVINCIAL.

THE river is rising up above.

A TEACHER is wanted for the Point Douglas school.

REV. MR. SEMMENS left for Beren's River Wednesday.

A FEW prairie chickens are now in market, and sell at fifty a brace.

PRADIE chickens are reported as not very plentiful west of the city.

Coming.—Hon. Donald A. Smith is expected to arrive in this city shortly.

THE chief of police has been around warning people about their stovepipes.

THE lobacco establishment of Geo. Firestine has been purchased by C. J. Brown &

The heavy rains experienced the past few days have delayed the work on the sewers considerably.

Another tailoring establishment is to be opened shortly on Main street by Messrs. Cameron & Campbell.

A QUANTITY of timber and iron stringers for bridges on the C. P. R. has recently been brought down the river.

Ir is expected that the International will be ready to take her place on the line in and th flour fo

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TOBA FREE PRESS.

by the imposition of duties on wool and other agricultural products, and argued that whenever we could buy any article more cheaply than we could raise it, our interest was consulted by its importation.

Mr. Patterson recognized in the policy of the Government a willingness, if any adjustment of the tariff were necessary, to regulate it in the interests of the manufacturers, but, when no addition to taxation was necessary, he was not disposed to condemn the Government for not making any financial changes. He showed the insincerity of the Opposition in attempting, after voting the other day for protection to the manufacturers only, to now tack on the agricul-turists merely to catch votes.

Mr. McDonald (Cape Breton) advocated a

duty on coal.

Mr. Carmichael pointed out that the mining interests, shipping interests, and fishing interests were all ignored in the resolution. If protective duties were to be inflicted why were these great industries ignored? But protective duties would destroy the shipping interests. The thanks of the House were due to the Government for having adopted a truly national and not a sectional policy.

The debate was adjourned to be the first order of the day on Wednesday.

LOSING UP BUSINESS.

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Worth of goods, consisting of

Clothing, Dry Goods, Boots & Shoes, Groceries, Crockery, & Fancy Goods

On account limitation of partnership expiring, we are determined to close out our entire stock

This sale is bona fide. Goods must be sold. Our stock has been re-marked in plain figures

CASH ONLY!

All book and note

Accounts Must Settled be

Within 20 days from date, after which date all accounts will be put in suit for collection.

Golden Lion," Main Street. Winnipeg.

> MERCER VILLIERS.

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J. Cockshutt. PRESIDENT. C.H.Waterous, MECHANICAL MANAGER.

John Fisken. VICE PRESIDENT. George H. Wilkes. SECRETARY &TREASURER.

PORTABLE SAW MILLS

That will cut 2,000 feet of lumber in a single hour.

GRIST MILLS

That will grind 100 barrels of Flour while using only one cord of wood.

ECONOMICAL ENGINES

That will consume only two pounds of coal per horsepower per hour.

ROTARY PUMPS & WATER WORKS

GEARED SAW MILLS.

Thirty horsepower and upwards.

CIRCULAR SAW IRONS.

Handy, Accurete, Durable.

Dick & Banning, Agents, Winnipeg.

at

FURNITURE, CARPETS & HOUSE FURNISHING GOODS.

Gerrie & Co.

CT CON CHAN LORD ON CONTROL

"MAMMOTH CHAIR," MAIN STREET.

Are just receiving their extensive and varied assortment of

Descriptions,

Representing the latest styles and newest designs, to be disposed of at greatly reduced prices, together with a choice selection of

Chromos

Looking Glasses

Steel Engravings, etc. Picture Frames, etc.

Mouldings Window Cornices, etc.

Imported direct for the retail trade. 100 pieces Brussels Tapestry,

2 & 3 ply, Woollen, and Hemp Carpets,

To be sold at Montreal prices.

Cocoa Matting Oil Cloth Toweling

Table Covers Table Napkins Toilet Covers

Rugs and Mats Window Hollands Fancy Reps

Sheetings Blankets Damask and Lace Curtains, etc. WALL PAPER a speciality. Our stock comprises the most elegant patterns and the largest assortment in the Province.

Expected to arrive daily, a

Direct Importation staple Goods

For the wholesale trade only, consisting of Prints, Winceys, Ginghams, Cobourgs, Cottons, Jeans, Shirting, Flannels, Tweeds, Hosiery.

READY-MADE

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"Thalberg Piano." \$350.00.

The want has long been felt of a good useful Family Piano: to meet this want the Thalberg Piano is now introduced into this market, and the patronage of the public is confidently solicited. These instruments are all made of a uniform standard,

Full Seven Octave---Solid Iron Frame,

Overstrung Bass, Carved Legs, Round Front Corners, Serpentine Mouldings, and Double Veneered Rosewood Cases, combined with clearness and richness of tone, beauty of finish, and of the

MOST CELEBRATED MAKE.

Purchasers may therefore order these instruments with confidence, as each is fully warranted. As these instruments will be largely used in schools and convents, a

Special Discount of Ten Per Cent.

Will be allowed for such purposes, and also to clergymen for the use of their families.

It may be asked how it is possible to supply a good warranted piano at about one half the price frequently charged. The answer is plain: There are no large show rooms to keep up, no grand music halls to maintain, and no expensive travelling agents to pay, the piano can therefore be offered

Photographs of these instruments, and full particulars, can be obtained from

H. S. DONALDSON & BRO.,

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Agents of the Thalberg Piano for the Province of Manitoba.

March 29th, 1876.

clear and remains cool all summer. which become few such spots on the Red River which become dangerous only in spring and it is at these places that accidents occur. The water of the Winnipeg is brown and delear and remains only in the second of t at thin crust underneath by eddies. There of new places the ice is unsafe, being worn to weight of snow and the pressure of winds. In bat overflows the ice to a height of six or nine or inches and in many places renders fravel. This disagreeable. This is caused by the relationship of the property of the pro are River is frozen. The water on the Winnipeg -we remembered that the lake does not freeze tor a fortnight or three weeks after the Red have sailed into the Winnipeg. It must be and when an entrance there was hopeless, I Four days after the closing of the Red River, say on the lake after the other rivers freeze. to the Red River, and, as such, is of some value of some as a hard river, and, as such, is of some such as a hard of refuge in case of being caucht and some such and and a set of the contractions. ni wols si geqinniW ent sysd ebiw ent to uce ake. In the fall on account of its depth and Suo solved. Consequently, no ice flows into the eib si esi ene the next fall is reached the ice is edited to the ice is edit of the ice is edited to the ice is ed any days before finally working its way over. Bethe falls from one side to the other for two

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OPENING OF RIVERS.

A well-informed correspondent, who has paid considerable attention to this matter, gives his views in the following letter, which will be found well worth perusal; To the Editor of the FREE PRESS.

To some of those who are now so anxiously looking forward to the opening of navigation it may not prove uninteresting to read an account of some observations which have been enabled to make during the past few years on the breaking up of our rivers in spring. My opportunities have made me acquainted with the mode in which the ice disappears on the Winnipeg, the Brokenhead and Red Rivers. They all flow into Lake Winnipeg, but the nature of the country which each drains is quite dissimilar. This to some extent varies the conditions under which the ice disappears in each. The Red River, though having its sources in the lake and timber country of north-eastern Minnesota, flows for the most part through a vast plain destitute of timber, except along the banks of the river. The banks have. consequently, an almost uniform altitude. One would imagine that a stream making its way through a level country, where no rocks nor timber obstruct its course, would do so in almost straight direction. The reverse we know is the case with the Red River. Its course is of the most sinuous kind. Its many bends have much effect upon the disappearance of the winter's ice. The depth to which the ice forms on the Red River is from 2 to 3 feet. The grown is from 2 to 3 feet—the average being about 2 feet 6 inches in an average winter. The shores of the river are in many places com-posed of soft mud. The water and mud both freeze, and from the shore out to deep er water the depth of ice is greater than the average, being frozen to the bottom, and forming a solid mass with the mud under neath. In the spring, after the snow begins to thaw, or after a fall of rain, this portion of the river is always flooded, the reason being that, unlike the ice over the flowing water, this is prevented from rising. It is always the last to rise or to move, and it may be seen some time after the main body of ice has been in motion rising to the surface in large masses and black with mud. This is what is called ground ice; it is, however, not always confined to the shore, but may sometimes be found formed and adhering to the ground under the flowing water. conditions under which it forms in that position are not easily determined; but it is quite probable that ground ice of this kind may tend to choke up the outlet for the surface ice as it rolls along with the current. The first portion of the river in which the ice shows signs of decay, is where the current is most rapid, or where eddies are formed by bends or obstructions in the channel. After a good many of these openings are made the ice moves in a mass. At Winnipeg, no movement takes place until the water first rises from the result of thaws or rains; and the final movement depends upon the pressure of the downward mass of ice. Partial movements take place which leave open spaces, but these are entirely local, and do not extend beyond the first bend of the river. When the full pressure of the ice coming down is felt, every avail able spot is covered with ice more or less broken, and often impelled in large cakes upon the shore with slow but immense pow-

ice jamming in the river on this side of the line, the water from that cause is never higher than the upper bank. The local movements of ice begin five or six days be-The local fore the last shove or clearance occurs. Winnipeg, last year, there were partial movements of ice about the 24th, and the river was clear during the night of the 29th of April. The water continues rising until the final "shove" takes place. During the twenty-four hours preceding the final shove this rise is very rapid. This is occasioned chiefly by the ice becoming jammed at some of the bends below where the rise takes place. The moving ice attempts to force a passage underneath the still stationary ice, and it may be heard groaning and roaring as it rolls and tumbles underneath. The large blocks continue their progress under the other ice in a series of somersaults, but they sometimes fail to find room in which to turn, and are brought to a standstill, and so a jam is formed and the channel through which the water escapes is almost blocked up. From this point upward the water will rise, and continue rising until the jam gives way. In some places where the current is rapid a jam thus formed will raise the water ten feet in as many minutes. At some places on the river lime-kilns are built at a point considered to be beyond high water; but a local jam of this kind will raise the water so unexpectedly that the kilns are inundated, and the lime slaked for that sea-10 son. When this occurs a beautiful cloud of steam is seen to issue from the top of the 20 u kiln. The distance which the last departing ice travels in a day varies at differents points on the river. From Upper to Lower Fort Garry is a distance of thirty miles by water, and it takes at least one day to travel this distance. It is somewhat singular that of all the immense body of ice which forms and which ultimately flows on the river none reaches Lake Winnipeg. Much of it is thrown on the banks, but the continued friction which goes down and the contact with the open water causes a rapid dissolution, notwithstanding the ice is very powerful when first in motion, and no vessel can withstand its pressure with safety, at least on this side of the line. I have now, I think, shown that a flood is not to be apprehended from the outgoing of the ice, except in quite a local and circumscribed way; and it is not likely to last more than a few The floods of which history and hours. tradition make mention have to be traced to other sources. The water falls rapidly after the last ice disappears, and gets down almost at once to a depth of about seven feet over low water level. From this point it goes down more slowly until the end of May, at which time its further course is stayed by rains. Upon the continuance and extent of these rains it appears to me depend the occurence of floods. To some extent the nature of the winter in Minnesota and Dakota may affect the lakes, swamps and marches by not allowing the rains to become absorbed by reason of surface frosts, and hence cause their overflow into the Red River and its tributaries; but an acquaintance with that region and its climate would be necessary before coming to any conclusion on this point. The Brokenhead River is a much smaller stream than the Red River, and flows altogether through a timbered country, although without rocks or gravel. The banks are not high, nor is there

the falls from one side to the other for two days before finally working its way over. Be- low fore the next fall is reached the ice is dis- m solved. Consequently, no ice flows into the lake. In the fall on account of its depth and of the wide bays the Winnipeg is slow in freezing, being about ten days later than the Red River, and, as such, is of some value as a harbor of refuge in case of being caught on the lake after the other rivers freeze. Four days after the closing of the Red River, and when an entrance there was hopeless, I have sailed into the Winnipeg. It must be remembered that the lake does not freeze for a fortnight or three weeks after the Red River is frozen. The water on the Winnipeg overflows the ice to a height of six or nine inches and in many places renders travel-ling disagreeable. This is caused by the ling disagreeable. weight of snow and the pressure of winds. In other places the ice is unsafe, being worn to a thin crust underneath by eddies. There aae some few such spots on the Red River which become dangerous only in spring and it is at these places that accidents occur. The water of the Winnipeg is brown and clear and remains cool all summer.

March 29th, 1876.

The movement of the ice is seldom rapid, the channel being so much occupied. By this time the water has gradually risen, until it is on a level with the second or lower bank of the river. For many years it has not ris a great has not risen bank. While this the ice is in motion a roar not loud but very determined is produced by the grinding and crushing of the ice. Some miles to the north of Winnipeg, when the current is swift, this roar is much louder and is heard at a distance of a mile or two, and before the ice is seen and while it is beyond the next bend, one feels an inclination of stepping back a pace or two to let it pass. The ice before moving is well advanced in dissolution, and as the decay seems to be produced in a perpendicular direction to the water the ice is said to be "honeycombed" or to be in "candles." It is somewhat singular that dung which is usually productive of warmth should have a contrary result on ice. Wherever on the river holes for watering cattle have been dug, the ice surrounding these is the last to decay, and when other ice is pounded into fragments large floes covered with dung may be seen flowing intact for long distances. The principal points of interest in connection with this subject to the people of this Province are the time when navigation may be expected and whether floods may take With respect to the first of these all sorts of theories are advanced. The breaking up of the river is said to depend upon the time at which winter set in; or the severity of the winter; or the depth of the snow; upon the spring rains, and I have met with some who believe in the direct agency of the moon in the matter. A much wiser and safer conclusion is that it depends on the weather; but I would confine the period during which the weather affects the opening to the month preceding that event. The fall snow, the intensity of cold during winter, nor the time at which winter set in, I believe have nothing whatever to do with the opening of the river. Two years ago the winter was severe, but upon the 17th of March we had heavy rain continuing for sixteen hours with a raw east wind, but the river was open only on the 1st or 2nd of May. Last year we had very mild weather on the 29th of March, and a heavy thaw, but the river was not open until the 29th of April. This year we have had no thaw to compare with those I have mentioned, and yet the belief is general that the river will open early. A week or ten days of cold, cloudy weather in April will do more to retard the breaking up than an unusually It has to be rememcold winter.
bered that t the ice once formed to a thickness of two or three feet it will continue intact if you but leave it at a temperature of 32, and it is at that temperature nearly every night in April. The destructive process has therefore to take place during the day, and upon whether the winds are northerly, and more particularly upon whether the sky is cloudy, will depend the time taken to destroy the ice. I therefore hold that if any one can predict the weather for April, he may be safe in predicting a day at which navigation will open. With respect to the second point of interest-wheth er we are to be subjected to flood or not-it will no doubt appear strange to most of your readers to be told that the great floods of which they have heard so much, have never been occasioned by the breaking of the river or the ice at all, and they did not occur for four or five weeks afterwards. Floods spreading over the prairie have aken place in Minnesota and caused by the and a large mass may be seen hanging over sw

any irregularity on their surface. The ice w on this river does not shove or move. mains until it dissolves utterly. No frag-ment of it is seen to float. It first decays in the middle of the stream and disappears towards the shore. There is little if any current in the river, the sun and air alone act on the ice, but so slowly and steadily that no movement of the ice is occasioned. I have reason to believe that the outlet of this stream gets frozen up during the winter and that no water escapes, at least during the latter months of winter. The depth of water on the bar at the open water is but four feet, and with a feeble current the ice might freeze to the bottom. During March the water of the river changes color, becoming of a reddish tinge. The taste and smell be come bad. This may be caused by stagnation. There are, however, at every water immense quantities of dead fish-like minnows-from which this discoloration and bad taste might arise; although it may be more probable that the fish have been killed in consequence of the stag-nation of the water. The water in summer is clear, and of a light brown color. The Winnipeg River is in marked contrast to the Red River. The latter after flowing through hundreds of miles of level prairie is almost lost in a delta formed from its own deposits. No less than three well defined channels (the largest of which on its bar has only seven feet of water) lead it into the lake, while innumerable smaller and more devious creeks conduct its waters also in the same direction. The Winnipeg River runs a shorter course, but in a much grander fashion. With a volume of water ten times greater than that of the Red River, and borne from a wooded and rocky region, and having as reservoirs the Lake of the Woods and Rainy Lake, it fllows down, now with gentle and unruffled surface, expanding its bosom, until lakelets are formed and anon confined between granite walls topped by the birch and poplar, and escaping with a very rush of thunder over precipices, it again for falls below, finds greater freedom and becomes again smooth and quiet. on its estuary are high and well defined. For The shores some miles its course may be traced through the bay which has its outer boundary at Elk Island. The channel here, as everywhere in its course, is deep, although on each side it is lined with rocks, the heads of some of which are visible, but most of them are under water, although, in many cases, only a few feet: it is then dangerous in sailing to leave the course as rocks may beset one on every hand. Of course, at the falls the river never freezes—some distance above and some distance below remaining open all winter. This is the case, too, at many of the swifter currents. In the wider reaches of the river the ice remains much longer than on the Red River, there being no current to waste it nor rise of water to displace it. The rise of water on this river is not perceptible when the ice goes away nor is there any indication of high water until the middle or end of June. The large lakes from which the river is supplied serve to retard the outward flow and the numerous smaller lakes formed by the river itself give so much space that the effects of spring thaws or summer rains are but very indifferently felt. There is no general movement of ice from one end of the river to the other. Between each rapid or fall the ice moves sometimes in an unbroken mass of a hundred acres. As it approaches the rapids it gets jammed between the shores and

sl m st The debate was adjourned to be the fig. order of the day on Wednesday. a truly national and not a sectional policy due to the Government for having adopt interests. The thanks of the House we protective duties would destroy the shipping were these great industries ignored? El If protective duties were to be inflicted mu ing interests, shipping interests, and fishing interests were all ignored in the resoluting Mr. Carmichael pointed out that the mit duty on coal. Mr. McDonald (Cape Breton) advocation turists merely to catch votes. facturers only, to now tack on the agriuo the other day for protection to the mi the Opposition in attempting, after volti cial changes. He showed the insinceriby the Government for not making any fluid cessary, he was not disposed to condim but, when no addition to taxation was but, mantorlunam edt to streretain edt ni ti etal ment of the tariff were necessary, to ruoi the Government a willingness, if any adply Mr. Patterson recognized in the policut was consulted by its importation. cheaply than we could raise it, our interes whenever we could buy any article 1944 OWN er agricultural products, and argued in the He bus loow no seitub to noitisoqmi edt vd tashr sle NILOBY EEEE PRESE

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addition of a ventilator, and by the repair broken windows, etc. The tout ensemble the school buildings is vastly superior to at of three months ago.

NORTH WARD BUILDING, ETC.

Efforts have been made by the board to prove the condition of the North Ward hool building. The breakages have been paired, the room cleaned, benches paint-, and what was possible done; but e place is wholly unsuitable for school rposes. The rent is considerable, the ilding uncomfortable, and it is to be ared that during the present winter it will well nigh uninhabitable. It is necessary call attention again to the fact that the ounds are uninclosed, and that this being e case, the outhouses cannot be put in tisfactory condition.

NEW BUILDINGS. Since opening of the schools during the esent week there have been in the senior partment of the central school 56 pupils, d in the junior, 88. While it must be tifving to the board to see its

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-	senior	200	25	55		Palestine, '85					
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	or 50 p	098	0₹	gg	09	St. Peter's, 35					
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condition, only, of building railroads to re all be offered to their people for settlemen at u specially productive wheat fields, and it pies of our North-West are becoming known see as i big as bus ableft wheat wheat the specially productive wheat the statement of the second of the ble for agriculture, the endless virgin layedou States and Ontario are becoming less redo oo tinctly marked that the middle and east ever so general. Just now when it seems so the continent the contrary result has belly as go general. Just now when it seems as

plessed by abundant crops, while through development, our land should be so signs combine to check immigration and prevy sul tit belttean bas and bevrear to alli next decade, and our specially burdensor A of the might have blotted our future for the pressed by isolation that another year's loss

Main Street.

Wholesale and Retail Dealer in

Groceries.

Wines

Liquors,

Provisions.

Flour and Feed.

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our se your os yours jo quem our logge schools. It is altogether likely that very 'uniterrodmi vd Weireld, almost entirely, the importation, uəəq san gninətini ni bəmusnə əd lliw at mor grant quin in satistica has a san quin divide it petween e two junior departments. On the succeeding day, 6th inst., your inthe eventual of the inition central. Up to of use of pospodxo of futt sociat time, during the three days of the pre pur 'purməp əqq oq uoiqaodoad ui aəqrənt term, 86 pupils had been present—31 of the coarse grains the supply will be enty run of stone.

of the Province has been increased by supplied. The flour manufacturing capaci

arded by such a large and immediate inease, yet it is plain that the accommodaon is altogether inadequate. As the winter oproaches a large further increase of pupils nay be looked for, and the question of how provide for those desiring admittance is very embarrassing one. There seems no esource but to take immediate steps toard providing a new central school building. At the earliest, before the means to uild can be obtained, the designs prepared, ad the building completed, the greater part a year must elapse, so that a great deal of vercrowding will certainly be unavoidable. very available foot of space in the senior ntral is occupied, and were the junior equately seated, very few more pupils uld be accommodated. The amount spent on other city improvements is altogether t of proportion to that spent on educa-on. What should have been one of the obets of greatest solicitude, the providing of perior school accommodation, has really en pushed in the background. If the city en pushed in the background. If the city sires to redeem its character educational-nothing will so help to this end as the illding of new school houses, not nest suitcher for puoced spuelis of unissimsural ios estably of the most expensive kind, but shoots of successful to successful the most expensive kind, but shoots of the most of prick or brick end of the most of prick or brick end of the most of prick or brick end of the most of advancing the pour of the hools, but be the means of advancing enterests of the city materially. Take into account the wretched charactered of the North Ward school building of new school houses, not nest shoots of the most expensive kind, but entered buildings. Should steps be taken to should entered building of new school houses, not nest in this direction immediately, it will entered buildings. Should steps be taken to should entered building of new school houses, not nest in this direction immediately, it will entered buildings. Should steps be taken to should entered building of new school houses, not nest in this direction immediately, it will entered buildings. Should steps be taken to should entered buildings of the most expensive kind, but have a school building of new school houses, not nest should be prick or brick or brick and supplied in the background. If the city should be a supplied in the school houses, not nest should be separated by the most expensive kind, but have school houses, not nest should be separated by the most expensive kind, but have school houses, not nest should be the most expensive kind, but have school houses, not nest should be separated by the most expensive kind, but have school houses, not nest should be the most expensive kind, but have school houses, not nest should be the most expensive kind, but have school houses, not nest should be the most expensive kind, but have school houses, not nest should be the most expensive kind, but have school houses, not nest should be the most expensive kind, but have school houses, not nest should be the

erest on the part of the pupils has taken place in this division.

erest on the part of the pupils has taken singly and the pupils has taken on the pupils and the pupils has taken singly and the pupils has taken place of indifference; the improvement reatness is very noticeable; the accuracy position insisted on, and regularity and some fewer pupils that the pupils of the pupil

MELBURN, BENTLEY & PEARSON of Canada, appointed me their Agent fo Manitoba for

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GEVAING

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AVY BLACKSMITHING.

ing, Mowing, Threshing Machines, and all nery promptly repaired.

The Manitoba Free Press.

SATURDAY, SEPT. 16, 1876.

THE CROP OF 1876.

It was our intention to have presented full reports of the crop prospects throughout the Province about the middle of August, but many causes have contributed to prevent our doing so until after the harvest, and they may now be discussed in the full light of the process of threshing and obtaining the first exact returns, which we hope our friends will be good enough to furnish for publication. In the meantime we wish to express our thanks to the various gentlemen who kindly took so much pains, often at great loss of time, in collecting the necessary data for this summary.

It will be seen by these returns, gathered simultaneously in thirty-four different settlements by intelligent farmers, who in some cases spent days in inspection before summing up their conclusions, that the famous average of Manitoba's growth has been somewhat lessened by various causes, some local and some general, but mostly peculiar

 OUTLYING PRAIRIE
 SETTLEMENTS
 EAST OF RED RIVER.

 Springfield, 28 30 45 25 300 700
 30 350

 Prairie Grove 35 50 50 40 350
 350

 Sunnyside & Cook's Creek, 35 40 50
 200

 Rosseau, 30 40 60 30 300
 300

 OUTLYING PRAIRIE SETTLEMENTS NORTH OF ASSINIBOINE RIVER.

LVLLLT

Rockwood, Victoria & Grassmere, 25 55 40 20 250 500 Greenwood, 31 40 50 30 350 Tp. 15, R. 1 E.,45 Woodlands & Meadow Lea, 80 35 50 20 200 Ossowa, 20 25 25 140 OUTLYING PRAIRIE SETTLEMENTS SOUTH OF AS-

SINIBOINE RIVER.

Pembina Mt. 35 50 20 150

Boyne River, 38 60 60 30 300

REMARKS.

EMERSON.—Later growth here much retarded by heavy rains, and a local hailstorm which battered grain down; about \(\frac{1}{3} \) of whole area sown on the fresh soil, and produced 18 to 20 bus, per acre.

WHITEHAVEN.—Being a young settlement and crops sown on new ploughed land this

average is very satisfactory.

Scratching River.—Crops mostly on new ploughed land, its average however is about 15 to 18 per acre.

Kildonan,—Loss of average here owing to rust and mildew; rains very heavy in latter part of season.

S. St. Andrew's.—Wheat light, and all crops shrunken from effect of unusually heavy rains in August.

N. St. Andrew's.—Average below ordinary season. Harvest very wet and trying. Roots will still increase in product.

St. CLEMENT'S & St. PETER'S.—Wheat and barley suffered from wet season still average will likely be higher than given.

St. James.—Great loss her from lodging, samples inferior and somewhat shrunken by extreme wet weather.

Headingly.—Barley and wheat will be poor color, but all grain heavy. Root crops will yet be good. Peas a comparatively light crop; very wet season.

POPLAR POINT.—Grain did not fill as well as usual. The wettest season known since '59; crops too luxurient in stalk, but grain heavy.

High Bluff.—All crops suffered in quantity and color from heavy and continued rains.

PORTAGE LA PRAIRIE.—Average higher than given; season wet; roots much damaged. Woodside.—Loss here from blackbirds.

PALESTINE.—Loss of average here by local causes and inferiority of seed.

Totogon.—All grain, and oats particularly, suffered from blackbirds and lodging by heavy rains.

Springfield.—Some injury here by rust from wet harvest, grain very much delayed in ripening.

PRAIRIE GROVE.—Damage by blackbirds and rains.

SUNNYSIDE AND COOK'S CREEK.—Average lessened here by drowning in low lands and wet harvest. Root crop light.

ROCKWOOD, GRASSMERE & VICTORIA.—Crops here not up to usual average; considerable grain lodged.

WOODLANDS & MEADOW LEA.—Average five bushels less than would have been in average season. Seed inferior.

Ossowa.—Most of area sown here newly broken ground, average lessened thereby.

PEMBINA MOUNTAIN.—Less returns on account of large area sown on first ploughing but even then good half crops returned.

BOYNE RIVER.—Blackbirds destroyed onetenth of the crop. Settlers complain of unoccopied homesteads. are supplied. The flour manufacturing capacity of the Province has been increased by twenty run of stone.

Of the coarse grains the supply will be greater in proportion to the demand, and prices thereof may be expected to range low. But even these we confidently expect to see fairly remunerative, as a large quantity will be consumed in fattening meat for our own market which hitherto has been supplied, almost entirely, by importation, not for the want of stock so much as the want of grain to bring the same to fair slaughtering condition.

Thus, taking everything into account, it is really doubtful, had we shipping facilities, whether they would be called into requisition for grain exportation even with this year's production on our hands.

Immigration being bound to keep pace with our increasing grain growing, it may be reasonably deduced that long before we have a surplus for exportation eastward we shall be in possession of competing routes of transportation in the Canadian Pacific Railway to Thunder Bay, and the American railway system. Neither is it going too far in the hopeful direction to conjecture that when we have a surplus to export an abundant and high priced market will be available in the wants of more southern provinces and states for new and hardier seed. A very high authority on the subject has predicted that for the first ten years of our surplus production it will be exported for seed purposes, and at the expiration of that time the North-West will be known all over the continent as its principal granary for the supply of breadstuffs. In view of the general feeling of joy and congratulation we think it would be well to proclaim a day of thanks giving and prayer throughout the Province for the grand results of an abundant har-

N.B.—Persons desirous of copies of the above article for transmission to friends beyond the Province, will get the same gratis by applying at the FREE PRESS office, either personally or by

mail.



to this year. The unusually heavy rains of the late season have done their share, especially on low lands selected last yearan average season; whereas this has been the wettest known since 1869. Another cause by which the average has suffered materially is the sowing on a first ploughing, as done often by new settlers rather than await the slow process of rotting the sod; the half crop grown is, however, better than none at all, and will go far towards provisioning those settlers' families for the win ter. The loss by the depredations of blackbirds in some neighborhoods suggests an enquiry into a means for their destruction. Another cause strongly felt in some places is from old and deteriorated seed, it being remarked that where new seed was used the difference was easily perceptible.

These returns are interesting also, as showing the remarkable evenness of the productive quality of the land and its capacity for producing what would be considered most surprising returns elsewhere under such special disadvantages as ruled this season. We have great cause to thank the Almighty Giver of every good that just now when our commercial interests are so heavily pressed by isolation that another year's loss of crops might have blotted our future for the next decade, and our specially burdensome ills of reserved lands and unsettled titles combine to check immigration and prevent development, our land should be so signally blessed by abundant crops, while throughout the continent the contrary result has been so general. Just now when it seems so distinetly marked that the middle and eastern States and Ontario are becoming less reliable for agriculture, the endless virgin lands of our North-West are becoming known as specially productive wheat fields, and may be offered to their people for settlement on condition, only, of building railroads to reach them by.

AVERAGE PRODUUCT PER ACRE.

SETTLEMENTS ON RED RITER.											
I	Vheat.	Barlen.	Onte	Done	Potatoes.						
		40	50	25	200	Turnips					
Whitehaven			-	-	200						
(Plum Creek)	35	40	50	35	200	400					
Scratching				00	200	400					
River,	25	40	40	25	200						
Union Point,	30	50		25	200	400					
St. Vital &				1		400					
St. Norbert,	35	45	60	30	100						
Kildonan,	30	45	50	30	200						
SSt Andrew's	5,30	40	45	20	250						
NSt Andrew'	s30	30	28	32	200						
St. Clement's		50	55	40	300						
St. Peter's,	35	50	55	40	360	,					
SETTLEMENTS ON THE											
St. James,	80	45	50			VER.					
St. Charles,	30	40	50	30	250						
Headingly,	30	45	60	30	250						
S. F. Xavier,	36	35	50	20	150	100					
Baie St Paul,	40	50	65	40	000	500					
Poplar Point,	35	40	55	40	200						
High Bluff,	35	40	55	22 22	300						
Portage la			00	44	200						
Prairie,	30	40	40	30	050						
SETTLE					250						
Tatoran	TEMI				DRIVER	,					
Totogon,	35		50	35	400	1000					
Woodside,	35		60	30	200	1000					
Westbourne,	36		60	40	150						
Palestine,	35	3 5 7 70	55	25	200						

It may safely be assumed that but for the | e special causes mentioned, such as heavy rains, old seed and sowing on new land the returns of the whole Province would have been one-sixth better. We have collected the averages in divisions of areas separated by the great rivers which have respectively formed the nucleus of settlement and of whose rich vallies this city is the natural marketing centre, as follows:

AVERAGE PRODUCT PER ACRE.

SETTLEMENTS ON RED RIVER.—Wheat 32 bushels, barley 42, oats 44½, peas 27¾, potaoes 182, turnips 400.

SETTLEMENTS ON THE ASSINIBOINE RIVER. Wheat $33\frac{1}{2}$ bushels, barley $40\frac{3}{4}$, oats $53\frac{1}{2}$, peas 291, potatoes 150, turnips 750. Settlements on White Mud River.—Wheat

35 bushels, barley 40. oats 60, peas 311, potatoes 2871, turnips 1,000.

SETTLEMENTS EAST OF RED RIVER.—Wheat $29\frac{1}{2}$, barley 40, oats $51\frac{1}{4}$, peas 32, potatoes 387, turnips 700.

SETTLEMENTS NORTH OF ASSINIBOINE .-Wheat 30, barley 39, oats 4I, peas 231, potatoes 235, turnips 700.

SETTLEMENTS SOUTH OF ASSINIROINE.—Wheat 36½ bushels, barley 60, oats 55, peas 25, potatoes, 225, turnips 600.

THE TOTAL AVERAGE PRODUCTION

throughout the whole Province of Manitoba this year, will therefore be found to be, as nearly as may be: Wheat 32½ bushels, barley 42½, oats 51, peas 32, potatoes 229, turnips 6621.

This is a much less total than was expected in the early part of the season, still greater than was latterly looked for it being feared that the continual rains during the usual term of harvest would have utterly destroyed the crops in many sections.

The figures cited above, together with others in our possession, would indicate

THE TOTAL YIELDS OF THE PROVINCE.

to be about: Wheat, 480,000 bushels; barley, 173,000; oats, 380,000; peas 45,000; other grains, 5,000; potatoes, 460,000; turnips and other roots, 700,000.

It has been feared by some that the effect of the bountiful yield will be the reduction of prices below a paying point. However, while prices are sure to range much lower than they have for many years past, we think that next spring, when the immigration which is sure to pour in begins, will demonstrate that those who have sold their wheat at much below one dollar a bushel are considerably out. Estimates, based upon importation statistics, place the Provincial and North-West Territorial consumption of flour for the next year at ninety thousand barrels, an equivalent of 360,000 bushels of wheat. This would leave only 120,000 bushels for seed and holding over-plainly insuf ficent. However, we are disposed to believe that the flour consumption has been slightly overestimated; but not so much so, as to leave any considerable surplus of wheat o after the next twelve months' requirements A

ainty and regularity in respect of the coets in all five states of the states of the case and to could be stated by the states of the case and the states of the case of the states of the case of

dit trade all has be alone into only with Dominion the grou strong m of a nobl Numbe time on across th ready hos whether : the fu which a may us McDougal of men wh 000 without m nience us His arden satisfied v tier of c overtaker ly and ease fields, p River to n-10 toria, to ville on E acnunfortuna astrous v ras the India ze, Dougall's the h a ling that o the every Indian tendances a times burid icy might have he fell a sacrifice the Premier, in be beyond that s to of his life-lo lis-Christianity its Followin a DEAR M observed observed you have port of it n Althou d but casus long to the uner civilization in a most of the uner civilization in the sive new sive new sive new constant and the sive new constan dress thes
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abled to co I write in TH One of the intrinsic va |- older provin with America pers and bus as is best to be in It gets circul e ers buying sil to farmers at that legislating speaking here en tion that a rei en tion that a ren ije way. It says ee clated coin at al "getting a litt paid in silver ing what the paid to only ing what the ribes or whiskey battles between the dit traders and their victims. Mr. McDon all has been known to go single-handed and alone into a whiskey trader's camp, armed only with his patent as a magistrate of the Dominion, and spill their Indian poison on the ground passing out through a crowd of strong men cowed before the quiet dignity of a noble man doing his duty at the risk of

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Numbers of our citizens sojourning for a time on the Saskatchewan, and travellers across the continent can testify to his ever ready hospitality and care for the stranger, whether foot sore and weary or wrapped in the full appliances for travelling. appliances full full appliances for travelling abundance of ready money which which abundance of ready money may usually obtain anywhere. Mr. McDougall did not belong to the class of men who take the name of missionary without much of the danger and inconvenience usually attendant upon its duties. His ardent evangelic nature seemed never satisfied unless when upon the very from tier of cilization; and though frequently overtaken by all the accessories of comfort and ease he was ever reaching out to new and ease he was ever reaching out to new fields, passing successfully from Garden River to Superior, to Norway House, to Victoria, to Edmonton, and, finally, to Morley-ville on Bow River, near which he met his unfortunate death. The events of the disastrous visitation of small-pox among the the Indians in 1869-70 displayed Mr. Mo Dougall's heroic qualities in bold relief. During that dark and dreary time when nearly every Indian tribs and family were afflicted. every Indian tribe and family were afflicted he and his family were unwearied in their attendance upon the sick, and numberless times buried the dead with their own hands In this noble devotion to a duty which they might have escaped two of his daughters fell a sacrifice. His recent services to the Dominion have been fitly referred to by the Premier, in Parliament; but something beyond that seems desirable in recognition of his life-long devotion to civilization and Christianity. Following is the letter of Col. Smith:-

March 31st, 1876. DEAR MR. Young:—With deep regret observed in the Free Press of this day th you have received confirmation to the r you have received confirmation to the report of the death of the Rev. G. McDougall.

port of the death of the Rev. G. McDouga Although my acquaintance with him we but casual, and that I do not chance to b long to the same religious connection, I can not refrain from expressing to you my dee regret for the loss we have all sustained in the unexpected deprivation to Christia civilization cansustained i to Christia

the unexpected deprivation civilization.

I am sure you will understand that I address these few lines to you with no intrusive purpose, but as this is at present the centre of our young North-West civilization, I earnestly trust some movement may be set on foot under your auspices for a testimonial of some sort to which I may be entitled to contribute my mite.

abled to contribute my mite.

I write in haste as I am called away in connection with the frontier embroglio.

Believe me faithfully, W. Osborne Sa OSBORNE SMITH.

THE SILVER GLUT.

One of the results of the depression of the intrinsic value of silver coin is that the older provinces are again becoming flooded with American silver coin; and the newspa-pers and business men are discussing what is best to be done to get over the difficulty. It gets circulation mainly by produce dealers buying silver at a discount and paying it to farmers at par. It has been suggested that legislation is required. The Globe speaking hereupon sensibly scouts the no-tion that a remedy can be obtained in this way. It says the men who take the depreciated coin at is par value "calculate on "getting a little more nominally if they are "paid in silver, and then they look to geting what they want in the store as cheap-

Red River Improvement.

To the Editor of the Free Press.

The appropriation of \$10,000 for the improvement of the Red River of the North, proposed by the Commerce Committee of the House of Representatives at Washington, is a surprise to the most sanguine friend of that measure. It is extremely difficult to get a new item into the River and Harbor Bill—the total amount of appropriation not being large, and the enterprises numerous which press for recognition: and in this year of all others, when the whole drift is to reduce expenditures, the exception in favor of Red River, affords a striking proof of the attention now drawn to the trade with Manitoba and Central British America, and of the efficiency of the Minnesota delegation in Congress. Red River Improvement. ficiency of the Minnesota delegation in Congress.

No member, however influential, can secure an appropriation for a river or harbor without a severe preliminary probation. The first struggle is to obtain a reference to the United States Engineer's office—a bureau of the War Department. Then follows a close scrutiny by an army officer, independent in position and with a scientific reputation to sustain: and only when a favorable report is made will the Committee on Commerce look again at the measure. Even then a recommendation by the committee requires to be seconded by a great and persistent effort. Although for ten years, the Legislatures and Boards of Trade of Minnesota and Dakota, have urged the improvement of the Red River of the North, it was only in 1874, that, on reference to the Engineers office and a careful survey of the stream between Moorhead and Pembina, the report of Col. F. U. Farquhar in its support, was secured and published, and two years have elapsed before any affirmative action thereon by the House Committee on Commerce.

I am of the impression that Col. Farquences.

thereon by the House Committee on Commerce.

I am of the impression that Col. Farquhar's report has been reprinted or fully abstracted in the Free Press, but a few of its statistical statements will warrant reproduction.—The average fall of the river from Moorhead to Pembina is seven-tenths of a foot per mile. From Moorhead to the head of Goose Rapids the fall is half a foot per mile; the length of the main rapids is 4,900 feet with a fall of 4 to 5 feet, and from the foot of the rapids to Pembina, the average fall does not exceed three-tenths of a foot per mile.—The rainfall in the Red River Valley has been observed twelve years at Fort Abercrombie, 15.42 inches; 5 years at Fort Wadsworth, 18.95; and three years at Fort Pembina, 13.16 inches.—The difference of level between high and low water marks at Pembina is 45 feet, at Moorhead about 36 feet.

at Pembina is 45 feet, at Moorhead about 36 feet.

Col.Farquhar presented a three-fold proposition; first, to remove snags and boulders from the channel, and overhanging and fallen trees from the banks, with temporary wingdams at Goose Rapids, which will probably absorb the appropriation of \$10,000; secondly, to dredge the bars, involving the removal of 63,887 cubic yards, at a cost of \$32,380; and thirdly, to overcome the fall at Goose Rapids by dams and a lock of 50 by 150 feet, with a lift of 6 feet, requiring an expenditure of \$185,000.

It is quite likely that the Steamboat Company would assume the construction of the wing or temporary dams at Goose Rapids, for the purpose of making the appropriation as effective as possible in removing snags, trees and boulders, and dredging the most troublesome bars. Capt. Alex. Griggs is an adept in this sort of construction, having already applied his experience in the Minne sota River to the management by wingdams of the current at Goose Rapids.

Col. Farquhar's survey terminated at Frog Point, 22 miles by the course of the river below (north of) the Goose Rapids; but he

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Point, 22 miles by the course of the river below (north of) the Goose Rapids; but he will doubtless be detailed to continue the survey to the northern boundary of the survey to the United States

United States.

In conclusion, I would request the publication by the Canadian Railway Survey, or other competent authority, of any facts bearing on the regimen of the Red River, its width, depth, current, &c., from the international boundary to Lake Winnipeg, and beg leave to express the hope that when Col. Farquhar shall have completed the survey from Fergus Falls or Breckenridge to Pembina, that a similar report may be at hand of the remaining course of the Red River of the North.

J. W. Taylor.

J. W. TAYLOR. Winnipeg, April 11th.

oel-7.1876. Yours, &c., CATHOLIC. THE BUFFALO MOVING EASTWARD.

Herds entering Manitoba.

A gentleman in whose integrity we have complete confidence, and whose information is based on authentic accounts, arrived from Emerson Friday morning, and brings intelligence of the actual arrival of the vanguard of migratory buffalo herds on the western boundary of this Province, which these animals have not approached for years.

The Sioux Indians residing at Devil's Lake, in Dakota, have already been on a great hunt, and have returned to their homes with an abundance of buffalo met and numbers of robes.

hunt, and have with an abundance robes.

with an abundance of buffalo met and numbers of robes.

A half-breed who arrived from the west at the Jo settlement reports that great herds of bison were seen about six day's journey from Red River and that some bulls were passed but four days off. This statement (estimating a journey at 20 miles) would place the nearest buffalo at about 80 miles distance—that is to say actually on the western boundary of this Province; and, as from all the accounts received, the herds are migrating eastward, it is not unreasonable to assume that by this time they have entered Manitoba after ten years of total absence. absence.

absence.

The party of Mounted Police who came into the city yesterday, from Fort McLeod and the Cyprees Hills, passed immense herds during their journey, the last seen being about seventy miles west of the Mounted Police post at Qu'Appelle, heading eastward

eastward.

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eastward.

It may be remembered that Sergeant-Major Frances' diary of the route from the Cypress Hills to Winnipeg mentions having killed a buffalo calf three days journey west of Qu'Appelle (these were a good deal longer journeys than those made by ox-cart), noting the fact that it was unusual to meet with this animal so far to the eastward. The place where the calf was killed is this side Chaplin or Old Woman's Lake, which may be found on most maps of the North-West.

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pid motion. If a well or cistern be under the over, or shaded by buildings, so that the unlight will not fall near the opening, it is nly necessary to employ two mirrors, using app ne to reflect the light to the opening, and nother to send it down perpendicularly rob nto the water. Light may be thrown fifty a fe or a hundred yards to the precise spot and effected downward. We have used the nirror with success to reflect the light des round a field to a shaded spot, and also to lain arry it from a south window through two ooms, and then into a cistern under the dis orth side of the house. Half a dozen refor ections of the light may be made, though arr ach mirror diminishes the brilliancy of the gua ight. Let any one, not familiar with this sui nethod, try it, and he will find it not only an seful, but a pleasing experiment. It will leg erhaps yield a mass of sediment at the ug. ottom of your well that has not been hought of, but which may have been a sea uitful source of disease by its decay in the no ater. tha

furder Out After Twenty-three Years.

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to g A few days ago, some men in Alleghany, any hile excavating for a cellar at James and hird streets, came upon the bones of the g and arm of a man. It was immediately called by the neighbors that about seven ears ago the skull and a portion of the inal column of a skeleton were found in ie same place. Rumor has it that they are ne remains of John Busch, who disappeared uddenly on the night of Christmas, 1853, aving gone out to buy some toys for his son. le fell in with a countryman, one Ernest einhard, and the two spent part of the vening in John Harris' saloon. From that lace the two departed. Busch was last seen t or near the house of one Hart, who had a aloon at Gerst Avenue and Second street. t the time Hart was suspected of the murler, and arrested for it, but the evidence lid not warrant a commitment.—Reading Eagle.

The Young Execution.

John Young, the elder of the murder ers of Abel Macdonald, was hanged on Friday 2nd Sept., at Cavuga Th.

Dyking the Fraser.

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Epiror Colonist Sir: My attention has been directed to an article appearing in your issue of the 5th inst. from James Chadsey, a Sumas farmer, giving a detailed account of what might be justly termed a sad calamity to the people in these settlements from the recent over-

flow of the Fraser.

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Being one of the sufferers and a dent. I believe that I am capable of giving an opinion as to the truthfulness of the article referred to, and candidly say it was the truth. As the waters are receding and the farms are beginning to make their appearance at the highest points, clothed with mud or sediment deposited by the water, the appearance is a gloomy one. Some people might justly think this gloom would take possession of the farmers and cause them to give up in despair and become thriftless; but, fortunately. I don't believe there is a more energetic class of people in the Province than ours. They have a strong hope that by perseverance their difficulties will yet be overcome by dyking out the Frain seinpred
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HORNS FOR CANADA,—A Canadian has recently purchased Bow farm, near Toronte, Canada, as head of which firm is the Hon. Ge Brown. From the recent spring s and by private treaty, Mr. Wil Ashburner, of Ulverston, their as in England, has bought 50 of the l Bates animals in the United Kingdo 25 of which left the Mersey on Thu day, the 1st June, in the steams! Polynesian, and will form the movaluable cargo of live stock ever tak from this country. The purcha

price of the fifty animals is upwards

±20,000, and for single females much as 2500 guineas and 2000 guineas and 2000 guineas has been paid to the Duke of Dew vonshire and Colonel Kingscote repectively. The following is a list of

pectively. The following is a list of the 50 animals:—Bulls: Duke of O: ford 38th, Duke of Oxford 30th, Gran Duke of Thorndale 2d. Cows an heifers: Grand Duchess of Oxfor

The Pacific Railway Progress.

From the Globe.

In a speech which all who heard it admited to be a wonderfully clear and succinct exposition of a most difficult subject, the Premier last evening described the progress made, and the policy of the Government, so far as it can be determined upon, in connection with the construction of the Canadian

Pacific Railway.

Noticing in the first instance the difficulties which stared the Government in the face in their assumption of office, he referred to the Herculean task of surveying the several routes it had been necessary to examine in order satisfactorily to locate the line through British Columbia, and fix upon the western terminus. The total cost of Pacific surveys has been spent west of the Rocky Mountains. From the first the Jasper House Pass in the Rocky Mountains has been Pass in the Rocky Mountains has been looked upon as the one that would certainly be adopted. From that point the most natural course would have been to seek the waters of the Pacific at New Westminster, by the way of the Fraser River, or else to have sought Bute Inlet via Clear Water River and the Big Bend of the Fraser. But the course of the line traversed on the last named survey was arrested by mountains 9,000 feet in height, formidable for their 9,000 feet in height, formidable for their glacia and other difficulties. The New Westminster route would be more favorable, but the enormous cost of tunnelling and rock excavations would have made the expenditure so great as to virtually preclude its adoption. From Tete Jauna Cache to Fort George, at the bend of the Fraser, some 200 miles, the route for so rugged a country is singularly favorable. From that point several routes present themselves; one via several routes present themselves; one via Stewart River and Stewart Lake, to the Upper Branch of Gardner Inlet, would be the shortest road probably to the ocean, and in that sense favorable for the trade of the East. The gradients, however, would be very heavy, and this line may therefore be regarded as still under examination. Another route by which, via Kamsquot Lake, the south branch of the Gardner Inlet would be reached may also be considered as one. be reached may also be considered as open to further consideration. A third by way of Black Water River to the north branch of Dean Channel is being very carefully explored, and presents some favorable features. The route by the Homathon Canyon to Bute Inlet has often been referred to. this the most favorable grade would be one of 115 feet to the mile for fifteen or sixteen miles, with a large amount of tunnelling and excavation in the face of rocks rising precipitously from the river. The route via the Kamsquot River is a few miles shorter, and has grades not exceeding 104 feet to the mile, with a rest of three-quarters of a mile in length in the middle. The summit level is reached at a distance of 70 miles, and is 3,460 feet above the sea. Between that 3,460 feet above the sea. Between that point and the Stewart River the line is favorpoint and the Stewart River the line is lavorable. From the lowest level of Stewart River to Fort George is 2,860 feet, and the highest 3,750. Some 50 miles would be saved by adopting Dean Channel as the terminus as compared with Bute Inlet, while the line, if carried to Bute Inlet, would strike the middle of Vancouver Island. The Dean Channel route traverses a country very sparsely settled, and one hundred miles north of Vancouver. This is, of course, an important element in the question of location. The foregoing applies solely to the progress of surveys in British Columbia, and on the assumption that the Jasper House Pass would be the one in any case adopted

\$5,000 further.

The survey is completed from Selkirk to Livingstone, 266 miles, and the route is virtually determined upon from Livingstone to the Saskatchewan, which it will strlke at White Mud River, some 15 or 20 miles south of Fort Edmonton. The entire distance for which the telegraph is constructed is 720 miles.

It may then be assumed that from Fort William to Fort George, at the bend of the Fraser, the route of the Canadian Pacific is practically settled, the distance between these points being 1,730 miles. From Fort George to Bute Inlet the distance is about 300 miles.

The Temperance con

The Maple Leaf Lodge of Good Templars held a successful concert Tuesday night in Temperance Hall. The room was well filled, and good order and good feeling prevailed during the entire meeting. A portion of the programme was omitted, owing to the unavoidable absence of several performers, but, on the other hand, two songs and a speech, not down on the programme, were given in good style. Thomas Nixon Esq.,occupied the chair and opened the proceedings with a few pointed remarks, which were loudly applauded. The Good Templars opening ode, "Friends of Temperance," was then sung by the company, and was followed by a reci-tation, The Natural Bridge," by J. Duncan. Then came a song, "Memories Dear," by Duncan. recitation, "The Seventh

peared before h. Council, and offered sureties Messrs. John A. McRea and John H. Bell.

Mr. John. J. McRea, collector elect, offered Messrs. John J. McRea and Adam McBeath as his sureties.

On motion of Thos. Anderson, seconded by John Flett, the sureties were accepted by the Council.

The bonds of the treasurer and collector respectively were then signed, also the de-claration required by the Municipalities Act.

Mr. John Flett reported that he had seen Thos. H. Smith, and he thought a ferry road could be obtained from Mr. Smith on the west side of the river, and there would be no difficulty of getting a ferry road on the east side.

east side.

Wm. Matheson reported that he had seen Angus Matheson, the present proprietor of the ferry, and after seeing parties he had failed to obtain a road on the west side, opposite the present ferry, and he therefore could not run the ferry this year as a public ferry.

Mr. Anderson reported that lower down he had seen John. A. McRea, who would give a ferry road on the east side, but he was not prepared to report respecting the west side

Wm. Matheson gave notice that at the next meeting of the Council he would introduce a by-law relating to pounds, and poundkeepers and fence viewers.

John Flett gave notice that at the next meeting of the Council he would introduce a by-law relating to dogs.

It was agreed that the Council sit as a Court of Revision of the assessment roll on

Saturday, 20th May, at 2 p. m.

Moved by Thos. Anderson, seconded by
John Flett, that Wm. Matheson and John Flett be a committee to ascertain definitely where and at what cost a ferry road can be procured, also what person if any can be obtained to take out a license and run the ferry when the road is procured, said committee to report at a special meeting of Council to be held at John Matheson's on Thursday the 13th inst.—Carried.

Thos. Anderson gave notice that at the next meeting of Council he would introduce

next meeting of Council he would introduce a by-law relating to certain animals running at large.

By-law No. 7 was then passed appointing John J. McRea collector of taxes for the municipality.

By-law No. 8, appointing Adam McBeath treasurer for the municipality, was also passed.

By-law No. 9, defining the duties of col-

By law No. 9, defining the duties of collector, was next introduced and passed.

The principal provisions of this by law are, that the collector complete his duties, settle his accounts, and return the roll to the treasurer by the 15th December, or on such other day as the Council may direct. He is also to keep a book in which he is to record, also to keep a book in which he is to record, lst, name of party making payment; 2nd, the lot or other property on which payment is made; 2rd, the amount; 4th, the date; 5th, the number of the receipt. The last clause provides "that he shall give receipts by him, and preserve the stubb of the receipt, on which he shall note all the facts contained in the receipt. contained in the receipt.

By-law No. 10 was next passed. This by

law dvides the municipality into three road

divisions as follows:

Division No. 1—From the south boundary of the municipality to the north line of John Matheson's (councillor) lot on the west side of the river, and the north line of John H. Bell's lot on the east side of the river.

Intelligence from the North-West. le We are indebted to Mr. Skeffington Thompson, formerly a member of the Mounted Police Force, for some interesting information from the far West.

He started from Fort McLeod on the 3rd ıg ve Sept, in company with the party of Mounted Police who arrived in this city Thursday, 28th ult., and travelled by way of the Cypress Hills, which were reached seven re IX of Sub-Inspector Neill, with Sergt.-Major Francis, four sub-constables, and the six recruits enlisted at Winnipeg, was met fifty-five miles west of Fort Ellice. They had with them a train of or carts convocing the R er d. a with them a train of ox carts conveying the four mountain guns and ammunition des-tined for Fort Walsh, and were making but cl very slow progress owing to the badness of rg S the roads.

Immense herds of buffalo were passed on the other side of Qu'Appelle, heading eastward. Last winter there were none hunted in the immediate proximity of Fort McLeod, though buffalo were very abundant the previous seasons. Great numbers of Crees and half-breeds are out on the hunt, the latter destroying the animals in their usual reckless and unthrifty fashion. Mr. Thompson adds his testimony to that of all other the roads. of reckless and unthrifty fashion. Mr. Thompson adds his testimony to that of all other travellers from the West as to the urgent importance of speedy legislation to prevent extermination of the buffalo. He says that this is an all important question to the Blackfeet and several other tribes, who are entirely dependent upon the bison for their food supply t. food supply. Provision were getting somewhat cheaper at the distant posts. Flour now sells at Fort McLeod at \$15 per sack of 100 lbs; last winter the price ranged from \$20 to \$25. Tea is \$2.25 per lb.; other articles in proportion. proportion. A gross case of rape was perpetrated in the village at Fort McLeod by a trader who is a member of an influential firm. Though the Mounted Police were brought to the house by the cries of the Indian woman sub jected to outrage, the non-commissioned of-ficer with them hesitated to break in the

Six sugar beets—John Harrower, 180, 110 ophile Jette, 2nd,
Twelve white field carrots—W.G. Fonseca, 1st; Thos. Anderson, 2nd.
Thirteen large red carrots—Mrs. Pritchard, 1st; D. F. Knight, 2nd.
One mammoth field pumpkin—Mrs. Pritchard, 1st; W. Peel, 2nd.
HORTICULTURAL PRODUCTS.
Twelve crab apples—W. B. Hall, 1st.
Assortment dried native fruit—Robt. Bell, 1st. ge Jas. -W. rker, 1st. Assortment preserved native fruit—W. B. Hall, 1st; W. Corbett, 2nd.
Assortment pickles—Mrs. Palk, 1st; Mrs. Pritchard, 2nd.
Bottle tomato catsup—W. B. Hall, 1st; R. Wm. wn, Egan, 2nd. Bottle n ker, native wine-R. Bell, 1st; Pere Richot, 2n d.

Bottle mushroom catsup—
son, 1st; T. W. Gravely, 2nd. 1st; Alex. McPhern, 1st; T. W. Gravely, 2nd.

VEGETABLES.
2 qt. kidney beans—Pere Richot, 1st.
2 qt. any other kind—Pere Richot, 1st;
R. O'Reilly, 2nd. nith, 2 qt. kidney beans—Pere Richot, 1st.
2 qt. any other kind—Pere Richot, 1st;
H. R. O'Reilly, 2nd.
6 long blood beets—Hudson's Bay Co., 1st;
H. J. Arkland, 2nd.
6 turnip beets—H. J. Arkland, 1st; Wm. Corbett, 2nd.
6 long table carrots—Wm. Nimmons, 1st; Donald Sutherland, 2nd.
6 early horn carrots—W. A. Farmer, 1st;
E. H. G. G. Hay, 2nd.
6 parsnips—Bishop of Rupert's Land, 1st; Donald McIvor, 2nd.
6 table turnips, white—J. Harrower, 1st SAD-Benest, Wm. W.J. Hesone, 6 table turnips, w. J. Arkland, 2nd. 6 table turnips, white
H. J. Arkland, 2nd.
6 table turnips, yellow—H. J. Arkland,1st
2 heads early cabbage—H. R. O'Reilly,1st
Robt. Morgan, 2nd.
2 heads Savoy cabbage—Jas. Tait, 1st white-J. Harrower, 1st er 15 mas Robt. Morgan, 2nd. 2 heads leads winter cabbage—Richard Egar Robt. Lowes, 2nd. 2 heads winter casology
1st; Robt. Lowes, 2nd.
2 heads early cauliflower—Mrs. Pritchard
1st; Robt. Morgan, 2nd.
2 heads late cauliflower—Robt. Morgan,
1st; P. G. Laurie, 2nd.
6 heads celery cauliflower—Bishop of Ru
pert's Land, 1st; H. R. O'Reilly, 2nd.
4 cucumbers—Thos. Taylor, 1st; Theophile Jette, 2nd.
citrons—D. Flett, 1st, Charles Mollard, 2 cead John nson hos. Feo.

The Turko-Servian War.

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From the conflicting and somewhat uncertain character of numerous dispatches received since the commencement of the Turko-Servian war it has been almost impossible to form a correct idea as to the probabilities of success of either party or to estimate the relative strength of the belligerents. The following article taken from the Toronto Globe, however, gives a very general and, as near may may be, accurate statement of facts concerning the war which but a short time since threatned to involve the great European owers:

"At the present moment the exact military strength of Turkey as compared with that of her revolted provinces becomes a question not only of great interest but also of great importance, as largely determining what the final issue of the struggle will be. It is impossible either to reconcile the conflicting accounts which have been published or to furnish anything like ar accurate estimate, but in all probability the following figures will be found not very far from the truth. The total active force or standing army numbers over 200,000 men. Of these 32,000 have been engaged in trying to put down the insurrection in Herzegovina and Bosnia, while 48,500 have been stationed as an army of observation on the Servian frontier. The garrison at the capital is composed of 20,000 troops. There are 30,000 scattered through Albania, Bulgaria and Epirus, 7,000 in Crete, 17,000 in Syria, 20,000 in Kurdistan and on the Bussian frontier, and 8,000 dispersed in isolated garrisons. There are 30,000 Kurdistan and Syrian troops not yet called out, and 35,000 reserve soldiers who have just been called to active service. It seems surprising that with all these forces at its control the Porte should have had any difficulty in suppressing what any well conducted government would have regarded as a petty insurrection; but it should be borne in mind that the disaffection among the Christians was general, and the above distribution of the forces shows that the rulers were aware of the fact.

The Porte was, moreover, seriously

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ere felembarrassed for want of money, its own suicidal policy of repudiation having effectually destroyed its credit in the only quarters from which the necessary funds could be expected to come at its call. Nor has this embarrassment ceased; it may, on the contrary, be expected to grow more aggravated, and to have an important share in determining on whose banners victory will finally perch. Want of funds may embarrass the insurgents as well as the Turks; but they have already been supplied liberally with both money and munitions of war, and if there is likelihood of their proving victorious more assistance of the same kind will doubtless be forthcoming when needed. This not be the same when needed.

ser water. The question may be raised, is it practicable? Why, yes; because such works have been done with decided sucan ser works have been done with decided success in different parts of the world. But would it not be such an expensive undertaking that it would be impossible for the people and Government to undertake the work at present? No; because nature has done the principal part of the work. The shape of the valley is oblong; one end abuts on the Fraser, the other at the 49th parallel, about 15 miles in length. The sides are already dyked by a chain of mountains on each side so the work of dyking is confined to the end touching the Fraser, a distance of about five miles. At least half of this distance is already dyked by what is known as Chilliwhack mountain, about two miles long, and Miller's mountain, half a mile in length, leaving a balance not exceeding two and th ice via ary var. beder the ms eat al es ler's mountain, half a mile in length, leaving a balance not exceeding two and a half miles to dyke. What would be the probable expense? I firmly believe that the total loss estimated at Sumas this season from the water (\$30,000) would meet half the expense of building a substantial dyke, and what would be the result from such a dyke? It would utilize thousands of acres of prairie land for the raising of all kinds of crops which are now almost a waste from the annual overflow of the Fraser, thus creating labor and homes for hundreds of people, and would retain in the Province thousands of dollars which now go out to a foreign country for the commonest staple articles of life consumed in the country. s-al 10 re it d 3 lars which now go out to a foreign country for the commonest staple articles of life consumed in the country, thus draining it so heavily that it is bound to be kept in a state of poverty. I claim that public works of this nature are reproductive, and if the late Government when expending such large sums of public money had grasped the idea of reclaiming the overflowed lands on the Fraser, they would to day see that money reproducing itself in fields of grain and immigrants coming to our shores.

The immigration policy of the present Government is drawing nearer the desired purpose by the appointment of agents at New Westminster and Victoria, instead of, as it used to be, at London and San Francisco. Now, the duty of these agents will be to secure all the immigrants that come to British Columbia. What better inducement could an agent give than by telling a settler that the Government had some paririe lands dyked and perfectly secured from water at \$5 or \$10 an acre, where they could go and raise a crop as soon as it was fenced? Such land at the price would go at once. What better proof as to the practicability of dyking Sumas than the fact that the landowners are almost unanimous in favor of coperating with the Government in this work—willing to bear their portion of the expense. Provided that sufficient time be y for the commonest staple articles of 2 - OF h 0 a n a, of Be is alom Sumas than the fact that the landowners are almost unaumous in favor of coperating with the Government in this work—willing to bear their portion of the expense. Provided that sufficient time be given by paying annual instalments, they will pay both principal and interest in ten years.

The first step to be taken in this scheme would be for the Government to employ a practical engineer, and if these eral usfile cobe igh ten years.

The first step to be taken in this scheme would be for the Government to employ a practical engineer, and if there is none in the country import one from the United States or Europe, and test the nature of the ground and suggest or draw up a plan and scheme for the dyke, and also give the probable expense. Then the people and Government would have a basis to work upon. I trust and hope that the Government will see its way clear to move in this matter soon, for there are other places similar to Sumas to be reclaimed and must be. There are Matsqui Prairie, Pitt River Meadow, and the Delta of the Fraser.

Sumas B.C., July 10, 1876. cial 300 hey 0. sent only in S

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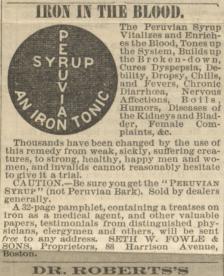
PRFEZEIONE strengthens, enlarges, and develops any part of the body, \$1; Nervous Debi'ity Pills, \$1; Invigorating Pills, \$1; all post-paid. Dr. VANHOLM, 161 Court Street, Boston, Mass. PRFEZEIONE

SAMARITAN NERVINE, the great Nerve Conqueror, cures Epileptic Fits, Convulsions, Spasms, St. Vitus' Dance and all Nervous Diseases; the only known positive remedy for Epileptic Fits. It has been tested by thousands and has never been known to fail in a single case. Trial package free. Enclose stamp for circulars giving evidence of cures. Address DR. S. A. RICHMOND, 15-dw Box 741, St. Joseph, Mo.

Negret the both the secretive and proved a thorough stomachic that will regulate digestion, strengthen the secretive and assimilating organs, and help nature to throw off any poisonous matter that has found its way into the blood. It is therefore a thorough blood cleanser that really will do its work well. Sold everywhere, A. NORMAN, 118 King street west, Toronto, Wholesale and Retail.

D'A RY'S CURATIVE GALVANIC on the most approved scientific principles, and will certainly cure sexual weakness, nervous disorders, rheumatic affections, neuralgia, weak back and joints, indigestion, constipation, liver complaint, consumption and diseases of the kidneys and bladder. All these yield to the mi'd but powerful application of Electricity. The only Galvanic Belts patented in Canada. Send for circular to A. NORMAN, 118 King street west, Toronto.

IRON IN THE BLOOD.



DR. ROBERTS'S

CELEBRATED OINTMENT,

CALLED THE

Poor Man's Friend,

ar confidently recommended to the public as an unfailing remedy for wounds of every description; a certain cure for Ulcerated Sore Legs, even of twenty years' standing; Cuts, Burns, Scalds, Bruises, Chilbiains, Scorbutic Eruptions and Pimples on the face, Sore and Infiamed Eyes, Sore Heads, Sore Breasts, Piles, Fistula and Cancerous Humors, and is a Specific for those afflicting Eruptions that sometimes follow vaccination. Sold in Pots at 1s 1½d and 2s 9d each.

at 1s 1½d and 2s 9d each.

Dr. Roberts's Pilulæ Antiscrophulæ, or ALTERATIVE PILLS, confirmed by sixty years' experience to be one of the best medicines ever compounded for purifying the blood and assisting nature in her operations. Hence they are useful in Scropes Scorletic Complaints, Glandular Sweitings, particularly those of the Neck, &c. They form a mild and superior Family Aperient, which may be taken at all times without confinement or change of diet. Sold in Boxes at 1s 1½d, 2s 9d, 4s td, 1ls and 22s each.

BY THE PROPRIETORS,

BEACH & BARNICOTT,

AT THEIR

DISPENSARY, BRIDPORT, ENGLAND and by all respectable Medicine Vendors.

SCIENCE OF LIFE;

Or SELF PRESERVATION.

WRITTEN by the Chief Consulting Physician of the Peabody Medical Institute, author of a Treatise on Diseases of the Throat and Lungs, Physiology of Woman and her Diseases, a Treatise on Nervous and Mental Diseases, late Surgeon U.S.A., etc., etc. It treats upon MANHOOD, how lost, how regained and how perpetuated, cause and cure of Exhausted Vitality. Impotency, Premature Decline in Man, Spermatorrhea, or Seminal Losses (nocturnal and diurnal), Nervous and Physical Debility, Hypochondria, Gloomy Forebodings, Mental Depression, Loss of Energy, Haggard Countenance, Confusion of Mind and Loss of Memory, Impure State of the Blood and all diseases arising from the Errors of Youth, or the indiscretions or excesses of mature years.

"The Book for young and middle-aged mento read just now, is the Science of Life, or Seif Preservation. The author has returned from

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tract Hon. Mr. Laird moved the second reading of a Bill to amend the Dominion Lands Act, which, he explained, was intended to encourage tree-planting in the North-West. In the United States, and especially in Minnesota, they had done a great deal in this direction, and about halfa million of acres had been set apart for that purpose. From the reports which had been published on the subject, it appeared that the attempt had been on the whole eminently successful. As to the desirability of doing something in the same way in our own North-West, he quoted from the report of Mr. G. M. Dawson, of the North-West Boundary Survey, and he mentioned that to the suggestions of that gentleman were owing the leading provisions of this measure. There were other provisions in the Bill which would be explained in Committee. DOMINION LANDS ACT. ase of no pi pefore nd an tercoroby vas as fro soi Pri s they named more 667 wit h. He en the did wei ercial discresaid . He nal ing seen I that sam mittee. In reply to Sir John A. Macdonald,
Hon. Mr. Lard stated that the law was
pretty much the same as in Minnesota,
but scarcely so exacting.

The second reading was carried, and the
Bill referred to Committee of the whole, Mr.
Young in the chair. Clauses one and two
were carried without discussion. On ade to gineer tion the wen Work-Ja ppear dow ming. obje ceiv were carried without discussion. On clause 3,

Dr. Schultz thought these provisions were very unfair to the holders of county warrants to whom the grants had been made without any such conditions as were now proposed.

Mr. Switze (Schlich) chase About E Poli lonial an e ter of that a any such conditions as were now proposed.

Mr. Smith (Selkirk) said if these warrants were in the hands of those to whom they were originally granted, there would be some force in what was said by the hon. member for Lisgar, but unfortunately they were too frequently in the hands of speculators, who held them for speculative purposes, and prevented settlement.

Sir John A. Macdonald said it was manifestly unjust to any party who had purchased those warrants that their acquired rights should now be interfered with in this way.

Mr. Scatcherd agreed with this view of the case, and could not understand upon what principle his hon. friend could propose such an interference with vested rights.

Hon. Mr. Laird contended that it was in the interest of the country that there should be some restrictions upon the power of speculators holding these warrants to prevent settlement. If the rule laid down by the Right Hon. member for Kingston were to be strictly applied it would prevent the reservation of lands for railways purposes in the North-West.

Mr. Smith (Selkirk) urged that there should and uired, of t was Cauc ineer was ineer day also e the Maj Cau er for to h been had rdges som nuch not go For ment nichi delay of aros work the pre pposyea hreatacture point of gen-ails zie 55 West.

Mr. Smith (Selkirk) urged that there should be some means of preventing speculators from locking up whole townships, which there was a tendency to do, with a view of holding them until settlement around them would make them more valuable, which really interfered very seriously with populating the country. -and sition fin d not treaswould make them more variable, really interfered very seriously with lating the country.

Dr. Shultz said he had studied the tai who sition tha that lating the country.

Dr. Shully said he had studied the section over very carefully, and he suggested that the hon, member was the more anxious to have it passed becaused it provided for the exclusion of the Hudson Bay Company's lands, which would be held until they were surrounded by settlements, and thus greatly enhanced in value tea nons prewa of ction y to ge to line Sta the niles Hon. Mr. Mackenzie said the clause would be allowed to pass pro forma, and the amendment of the hon. member for Lisgar, as well as one suggested privately by the Right hon. gentleman from Kingston, would be considered before the next stage of the Bill was 339 Th s of Ma pu gentleman from Kingston, would be considered before the next stage of the Bill was taken.

The fourth and fifth clauses were passed without discussion. On the sixth clause, providing that claims to homestead rights on account of actual settlement must be made to the local office, within three months from the completion of the same,

Dr. Schultz thought the time was too short. The section, after some discussion, was allowed to stand over. On section nine, with respect to settlement by Committees,

Mr. Smith (Selkirk) suggested the addition of the following words:—"Provided that in such community the provisions respecting improvements by cultivation and otherwise shall not be less stringent than those exacted in the case of individual homesteads."

Hon. Mr. Mackenzie promised that the suggestion would be considered before the next stage.

The remaining clauses of the Bill were passed with little discussion. The Bill was then reported, and the amendments read the second time; the Bill was then read the third time, and passed, an amendment having been added providing that the provision referring to county warrants would refer only to those issued after the passing of the Act.

(To be Continued.) are 550 of the for eorwas protor oad tar nich 88 trahin an uld m. wo 85 cat one Un s a n's sav lso y? out exc on nad is a able hat ble per duc is-be nis ders He 0-(To be Continued.)

A correspondent of the L'Orignal Advertiser, writing from Minnesota, gives the following vivid account of what he witnessed of the grasshopper plague:—
"I started from Porham and came down through what is called Rush Lake settletlement. I had come but three or four miles when I came into the army of grasshoppers. I travelled forty-five miles on Monday, and all the time amongst the most destructive army of pests I ever witnessed, or anyone else, for they were so thick I could with difficulty get my team along, and where they had been only one day and night there was not a bit of grain left. Otter Tail county is nearly all cleaned out. I came down through Clicorrespondent of the L'Orignal 1 e tnit 61-Xas else, for they were so the culty get my team along, and where they had been only one day and night there was not a bit of grain left. Otter Tail county is nearly all cleaned out. I came down through Clitheral, Nedross, Eagle Lake, Leaf Mountains and Millerville townships, and all the entire way, sixty miles, they were thick. A few miles along by Chippewa village they were not so thick, but down in Ida, Douglas county, the fields are just black with them, and the fences and fence posts are so thick with them that you could not put the point of a pin down for them. One cannot find language to half tell the story. Only seeing will give anyone an idea. A swarm of bees when they are swarming is something like the sight. These are some of the remarks that the farmers make. One of them said to me, "I did think that the machine agents were the worst pest I ever knew or heard of, but I had rather see one hundred machine men all coming for me at once, than have a one thousandth part of a grasshopper." Some men I met going to the railroad with their last load of wheat, but when they saw the "hoppers" coming they turned and went to mill, and others said they could live upon their cattle one year. But, oh! who will buy our cattle with nothing to buy with? In Becker county, when I came down through there, the wheat looked magnificent, and bid fair to yield 25 to 30 bushels per acre, but the heavens were literally full of the pests travelling in that direction, and they have reached there ere this, no doubt. Wheat would have averaged 20 to 25 bushels per acre throughout Otter Tail county had it not been for this pest. on eu-nd nd e," he ins its, a eg on. he eir 38he to ng be st Sna-ie y d

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the maintenance of the policy of non-intervention was impossible, in view of the massacres and bloodshed now occurring. All the powers except Russia had declared Roumania's demands unreasonable.

The Sclavistic Committee in Moscow has issued an address solemnly promising a general uprising in Russia and armed interven-

tion, if the Servians are defeated.

London, 24.—The Daily News' Belgrade special, dated the 22nd, says the Austrian Consul-General on Friday ordered some Austro-Sclavonian volunteers, who had landed here, to return to Austria. Upon their refusal, a discussion followed; the Consul seized a Servian General. The citizens warned him to desist if he wished to depart in safety. The Consul has proceeded to Semlin.

Paris, July 24.—The Gaulois says Schauvaloff, Russian Ambassador to Great Britain, insists upon being recalled, as his position in London is intolerable.

London, July 24.—The Telegraph's Berlin special says:—"I am informed Servia has solicited Germany to reconcile Russian and Austrian views in the negotiations that must ensue should further reverses compel Servia to sue for armistice, so that Turkish demands may be modified and the integrity of the dervian territory preserved."

The Standard's Vienna despatch, dated Monday evening, says:—"It is rumored that Tchernayeff, in an interview with Prince Milan, mentioned the advisability of an armistice."

The Standard's Alexandria despatch says that 1,000 troops started for Salonica on Sun-

day, and 1,200 on Monday.

ENGLAND.

London, July 21.—The mysterious death of Mr. Bravo, barrister, continues to occupy public attention. The Manchester Guardian's London correspondent says:—"There is an extraordinary report gaining currency that Government has thought it expedient to apply for the exhumation of the body of the late Capt. Ricardo. The remains are in the

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THE ACADEMY.

MR. W. H. BAILY, of the Geological Survey of Ireland, has issued another part of his "Figures of Characteristic British Fossils," thus completing the Palaeozoic division of this valuable work. The volume in its present form contains forty-two lithographic plates, comprising 700 figures, while numerous wood-engravings are dispersed through the letter-press. The figures have been selected with much judgment, and a large proportion are original. This collection of engravings will be of great value to all students of our tion are original. palaeozoic formations.

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xcep- and all succeeded in carrying off prizes. ecify Other entries which reflected credit on the and fair makers, are also worthy of mention, but both the impossibility of learning the names of the the exhibitors prevents us referring to them more fully.

A fine display of Osborne sewing machines otois made by Capt. Scott. Mr. Wellband makes a good exhibit of boots and shoes, for no-

which prizes were awarded him.

Mr. D. Ede exhibits some tombstones, in the lower hall, which are highly finished and

very creditable to his establishment.

We omitted noticing yesterday a very handsome sideboard, manufactured here by Bishop & Shelton.

STOCK.

The storm that set in on Wednesday evening kept back a good many entries in stock. There were, however, a few excellent animals. Mr. Jefferson, of Greenwood, had the only herd on view, and he certainly has made a good start. The best stock is generally acknowledged to be kept in the western portion of the Province, but no entries were made from there. Messrs. Robinson and Wilson, of Rockwood, carried off the Skead prize with their fine bull.

The display of horses was limited in num-

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THE ACADEMY.

her knee. This is the better work of the two, soft in colour, and mostly very agreeable. Hodgson, The Armourer's Shop: another Tunisian specimen by this able painter, carefully and nicely executed. Waterhouse, Margaret, Scottish Martyr. This uncommon-looking subject has been painted before; the Scotch girl who, for Cameronianism or some other religious obliquity, was judicially sentenced to be drowned by the flood-tide, and was left, bound to a stake, to perish as the sea rose. Mr. Waterhouse gives us the moment when the tide is just beginning to turn:

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door to seize the offender; the result is that he has so far evaded arrest.

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At Lee's Creek, seven miles from the foot of Chief's Mountain, and about two miles from the boundary line, some traders sank a prospecting shaft fourteen feet deep, and, without reaching the bed-rock, washed out gold to the amount of three cents to the pan. The "color" is to be found in every stream flowing out of the Rocky Mountains.

A trader named Fred Kanouse some time ago found good prospects in a locality close to the Kootenay Pass into British Columbia, but unfortunately got into a difficulty with the Indians and killed two of them in self-defence. He then found it expedient to take his departure, but is very anxious to return whenever he can do so safely.

The want of postal facilities is a great source of dissatisfaction, and the organization of the Government of the North-West is anxiously looked forward to as affording a prospect of improved arrangements. At the present time letters from Fort McLeod are sent via Fort Shaw, in Montana territory, bearing U. S. postage stamps, when, if a post office were established at Fort McLeod, the Canadian Government would receive revenue from the money so expended.

Hellmore.

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ago when Earl Dufferin said the Island road was dead and buried as a and have Canadian Government work he was called a "Vice-Regal Spy" by the very man who now proposes in cold-blood to "abandon" the enterprise. Well, what do the people of Victoria think of their self-appointed champion now? Were we not right, ten days are when we were a six and ment THEIR ed champion now? Were we not right, ten days ago, when we warned city and country to beware of him and his machinations? He began by dividing Mainland and Island on the route question—rendering it impossible for the two sections to adopt a unanimous plan of action. Having succeeded in his first effort he now proposes to "ABANDON" railway work on the Island. And this person claims to represent public opinion, and claims to represent public opinion, and in the face of recent addresses says a majority of the people will back up his treasonable proposition!!

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THE CLOVEN FOOT.

We should be sorry if the railway agitation were to take a new shape and degenerate into a mere scramble for the possession of the Local Government offices. It would be a pity if such were to be the ultimate results of the efforts now being put forth to advance railway communication and hold Canada to her bargain. Next to the sectional breeze that has been indiscreetly raised in this important matter we should regard the importation of party politics into the discussion as unwise and tending to weaken the movement. The recent assaults made on the Local Government-the attempt to fasten upon them a conspiracy to sell out the Carnarvon Terms-have their origin in a deliberate effort to destroy public confidence in the loyalty of Mr. Elliott's Government to the best interests of

the country. mambars of the Cabinet

Hy Glectric Telegraph.

EXCLUSIVE TO THE COLONIST.

EASTERN STATES.

Chevenne, Aug. 31.—A courier who left the camp of Crook and Ferry on the 20th at the month of Powder river arrived at Fetterman to-night. The command was on a trail which was estimated at ten thousand, ponies fires indicate seven district There is reason to believe the Indians are almost destitute of food, and the traces left in deserted camps indicate that they are reduced to the extremity of eating raw birds for food. All the Snake allies have gone home, the Crows remaining. Gen. Crook fully expects to strike Sitting Bull in a few days.

1.—To-day SINANNAH, Sept. were twelve interments of persons who died from yellow fever yesterday. The

disease is confined to the suburbs.

New York, Aug. 31.—Mr. Bescher having moved for a change of venue in the suit broad to the suburbs. in the suit brought against him by Frank Moulton the latter has served a supplementary complaint locating the action in this city.

Boston, Aug. 31.—The sentence of Jesse Pomeroy, the boy muaderer, has been committed to imprisonment for

New Haven, Aug. 31.—Fifteen million cartridges valued at 375,005 dollars were shipped to-day for Constan-

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BELGRADE, Sept. 1.—A week ago to-day Prince Milan invited the mediation of the Powers in the most formal manner for Servia and Montenegro jointly. This step was taken in oppo-sition to General Tchernayoff's opinion and in the face of his protests and arguments. It has been daily becoming more and more apparent that the Prince's action is regretted, at least by those in control of the Servian Government, and notwithstanding the Powers have notified Prince Milan their acceptance of the task of bringing about peace negotiations there is evidence that Servia will obstruct or evade them if possible unless some new military disaster produces another revolution of feeling. Tchernayoff's new military disasted prevolution of feeling. Tchernayoff's memorandum against Reaver was yesterday officially published by the Servian press at Bursaw. It throws no

additional light on the situation, and its most striking features are the argu-

ments that Servia has nothing to lose.
New YORK, Sept. 2.—Don Carlos and suite sailed for Europe in the

steamer Brittannic.

New York, Sept. 3.—John. S. Marvin & Co., of Yonkers, the heaviest hat manufactory firm in New York, have failed. Their assets are said to

be greatly in excess of liabilities.

Philadelphia, Sept. 3.—Washington Territory, its growth and resources. The above caption was the subject of the address by Hon. Elwood Evans in the Pacific Centennial Hall on Satururday. After referring to the wealth of timber and rich alluvial bottom lands and prairie of good agricultural capacity and well adapted to wheat culture and stock-raising, the speaker went on to review the early discovering and subsequent history of the territory, including the recent settlement of the dispute for the possession to [of San Juan Island] between Great to Principle and the Heiter States. Britain and the United States. The great timber, coal, and mineral resources of western Washington, her unsurpassed fisheries, established

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schools system and future prospects in general were severally discussed.

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I will conclude with certain remarks on the way of burial in the shell mounds of yancouver Island, and show the difference of the way of between the mounds of the conclustion of yancouver and those found in California.

Pancouver and those found in California. A place of yancouver is a place bad the conclusion of the conclus ay πο nc PPE -ed soul equ Suome esn mi noisemuoled sent of Empire in virtue of the fetes fend of Suildmess are evode of behalf and suildmess are evode of behalf so est of the soul of learning and suildmess are busined soul of learning and of Empire in virtue of the fetes fend of soil suildmess are evode of behalf with the law of suildmess are purious estat of the soil lam, and in conformity with the law of learning and of Empire in virtue of the fetes fend of soil suildmess sheek. Ul I dered by His Highness Sheek Ul I dered by His Highnes Alam I dered by His Highness Sheek Ul I dered by His Highness Sheek Ul I dered by His Highnes Highnes His Highnes Alam I dered b od

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City of Berlin from Liverpool the Irish rifle team has arrived.

Chicago, Sept. 3.—A 'Times' correspondent at Toledo, telegraphs that he has examined the records of Gov. Hayes' assessments of taxable Ar. he Iad he

property and finds that he has under-rated his income and estates in every case and has never paid more than the smallest part of the tax which his

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ample fortune calls for. CHICAGO, Aug. 3.—La Crosse special gives details of a terrible explosion of a boiler to a steam thresher working at the farm of C. G. Jones, near Chat field, Minn. The machine was in full operation when the explosion occur-red. Engineer Lawner was blown a hundred and fifty feet from the ground, his body breaking off a tree the top 20 feet from the ground. He was instantly killed. Charles Arnold, band cutter, was literally torn to pieces; Barnett, measurer, had the top of his head taken off by a piece of boiler. The boiler was blown a distance of two hundred feet.

Utica, Sept. 2.—Gov. Seymour has refused to withdraw his absolute declination to allow the use of his name

as a candidate for Governor. New York, Sep. 3.—The democratic

dilemma intensifies every hour.
The 'World,' Albany 'Press' and some other journals propose ignoring Seymour's declination altogether and marching on to victory under his name and banner. The 'Sun' says it would not be advisable to put either Dorsheimer or Potter up for the place on the ticket. Some conspicuous of long standing in the democrat party and of necessary reputation in the S tate should be nominated.

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Chicago, Sept. 3.—At the request of Senator Mitchell, instructions from the war department will be forwarded immediately with reference to the commencement of the work on canals and locks at Cascades of Columbia

EUROPE.

Council of Ministers and great dignitaries of the Empire have proclaimed Abdul Hamed Sultan vice Murad,

deposed. LONDON, Aug 31.—A dispatch from agusa says Dervish Pasha has Ragusa reached Podgoritza with a strong detachment of Egyptians and Arabians.

The Turkish force at Podgoritza is now formidable. It has 54 guns.

BELGRADE, Aug. 31.—Official intelligence is received to-night that the Turks were defeated at all points on the right bank of Moreve, and subsequent the right bank of Morava, and subsequently taken in the flank and put to flight. Their bridges over Morava were destroyed. The Servians occupied Turkish entrenchments on the the right bank of Movara.

Washington, Aug. 31.—The Turkish Minister received the following from the Turkish Minister of foreign

from the Turkish Minister of foreign affairs: Constantinople, Aug. 31.—The cruel disease of which Sultan Murad cruel disease of which Sultan Indian Khan has been suffering ever since the day of his ascension to the throne and which has been continually in and which has been continually increasing, having put him in manifest impossibilty to take any more the reins of Empire in virtue of the fetes rendered by His Highness Sheck Ul Isdanda Landau and dered by His Highness Sheck Ul Islam, and in conformity with the laws regulating the exercise of the Soveignty in the Empire, his majesty eignty in the Empre,
Sultan Hamed, presumptive heir to
the Imperial throne, has been proclaimed to-day Emperor of Turkey.

Larger Aug. 31.—Application of

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ago when Earl Dufferin said the Island dead and buried road was as Canadian Government work he was called a a "Vice-Regal Spy" by the very man who is now proposes in cold-blood to "abandon" the enterprise. Well, what do the people of Victoria think of their self-appointed champion now? Were we not right ten days ago, when we warned city and country to beware of him and his machinations? He began by dividing Mainlands and Island on the route question—rendering it impossible for the two sections to adopt a unanimous plan of action. Having succeeded in his first effort he now proposes to "ABANDON" railway work on the Island. And this person claims to represent public opinion, and in the face of recent addresses says a majority of the people will back up his trea-Canadian Government work he was called a jority of the people will back up sonable proposition!!

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up, some were lying at whole length; by shalls and bone implements, utensils, ornaments, etc. In this place, too, I found that the bodies had been deposited with out any fixed rules—some were doubled but any fixed rules—some were doubled by the content of gether with stone and bone implements.

gether with stone and bone in grant of the stone on discover a whole akeleton, one of the stone in the stone or of the stone of the st Tesearches.

A large spectral mound had been already partly removed by Mr. Dodd to build his house, and during the removal of that portion of the mound he came across a large number of skeletons, to-across a large number of skeletons.

was at that place I concluded to make my plements, ornaments, etc. At the "Gorge" plements, ornaments, etc. At the "Gorge" plements, ornaments, etc. At the "Gorge Victoria, are remains of a very extensive village: we can trace for miles the embankwhere the houses stood, as the embankments piled against the low r parts of the walls of the houses are still traceable. It walls of the houses are still traceable. It was at that place I concluded to make my action always found in the sepulchrai such as larges, but the sepulchrai such willages, but the sepulchrais of the with utensils, imple bodies, together with utensils, imple bodies, together with utensils, implements, ornsaments, etc. At the "Gorge" of the with utensils, implements, ornsaments, etc. At the "Gorge" of the with the will be with the will be w and broken implements and utensils, as in the shell banks in fact, the shell banks are nothing else but Kjokkomodings, which seems to have been leveled by the schon of time. The Kjokkomoding is always found in the implacement of forter villages, but the seepulohral shell mound is generally a distance back of the quantities among those I examined at the arm, showing that the Indians were in the habt, probably that of their enemies killed in battle), and help a probably and help in pattle). (elitsed mussels, oysters; etc.), broken benes, (human bones have been found in large the refuse of the repasts of the saage, and is found to contain shells (clams, nuesels, oysters; etc.), broken bones, broken bones and broken implements and nichestla. A kjekkomoding or common skelling. A kjekkomoding or commonskelmound of the Danes is composed of shells in flats near a river, where former-Shellbanks, kjokkomodings and shelled mounds. I fore proceeding any intibet mast explain the three words here no of shellbank is a large accumulation of

related to each other. lieve they have co existed formerly as they do still now among tribes olosely as an ethnological aign; so it is with cremation and the common burial. I -eq I have been obliged to give it up altogether does not seem to may be near any paracutation of the body, as some of them are found with the face downward, some others with the face upward. I paid formorely a good deal of attention to the way in which the bodies were laid by the Indians: but I have found that there is no particular rule in which they do it, and I have been obliged to give it up altogether have been obliged to give it up altogether does not seem to have been any particular I have been able to trace this oustom to deceased. I have been able to trace this oustom to different tribes of the northwest costs. The bodies deposited in these cairns have head lying generally toward the west, the hands resting on the knees under the other. Outside of these customs there outside of these customs there in the contract of the particular there is the contract of the costs of same deformation, together with the pack part of the base deformation, together with the prosesses of flattening, it has given to the two little spects we are need to find among the old Inca Peruvians. No find among the old Inca Peruvians. No find among the old Inca Peruvians or implements of any kind have been found implements of the deceased was burnt with property of the deceased was burnt with him, but the most valuable objects, such him, but the most valuable objects, such as bone or stone implements and utensils, were burnt only in effigy, that is to say were burnt only in effigy, that is to say were burnt only in effigy, that is to say were burnt only in effigy, that is to say that images of said implements or utensils made of wood were burnt with or near the body, and the original ones distributed among the relatives of the deceased. tion, the forehead is pressed upwards, and the back part of the bead has suffered the whose bones have been lying in the ground for six, seven or more centuries, were the ancestors of the present race of Indians. Among the skulls found was one presenting a very peculiar deforms. In the shell mounds of more recent date, to the neutral Cowitchen or with those of the neutral Cowitchen Ludien, I can hardly trace any difference. It would be too long to enter here on the morphology of the skull, but suffice it to say that, in my own opinion, I have not the slightest doubt that the earnbuilders whose hones have been lying in the whose hones have been lying in the I compare any of them with those found cradle among the Morthwestern tribes, the back of its head resting on the board. traces of great age. The shulls found are dolichocephalic, long and narrow, predolichocephalic, long and the occisenting an arbificial flattening of the manpital bone—deformation due to the manner in which the child is held tight to the
ner in which the child is held tight to the

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the side of the complete skeleton was a very extensive fire-place, wherefrom we took a large amount of sahes, together with charce bones and charcoal. The skulls found in the mound are similar to those of the living Indian. Quite a number of those found on the upper level of the mound present the conical deformation in use among the local matter.

the earthly possessions of the deceased were buried with him. If the deceased were buried with him. If the deceased was a man of wealth or renown, slaves were killed and buried by the side of their master—practices still common among the Thimkit tribes of Alaska. As short were the fire was over the ashes and the body were covered with another layer of abells and everything was over until a of the preceding one, this is to explain of the extent and elevation of some of the sepulcral shell-mounds. In California, we sepulcral shell-mounds. In California, we find only one kindel mound, which seems I will conclude with certain remarks on the way of burial in the shell mounds of Vancouver Island, and show the difference existing between the mounds of Vancouver and those found in California. On Vancouver Island, when a place had been chosen as a burial ground, the bodies were brought and laid down on a bed of nard earth, mixed with small rocks and gravel, then covered up with shells. A fire was then lit near the body, and all the was then lit near the body, and all the earthly possessions of the deceased JB IL πο

before I close this paper I must mention the same time but the comodings."

Before I close this paper I must mention that in connection with the cairns above apoten of are generally to be found large ditches inclosing in their area quite an extent of ground, cutting off sometimes from the mainland—a small promontory and forming in that way afortified enclosure, where the matires could defend the metalland the incursions of warther where from the incursions of warther tribes, inside of the enclosure formed by those ditches, and protected by the died the body was buried in the mound itself, so that California mounds are at the same time burial mounds and "Kijok-

refuse of cooking, or any other rubbish, was thrown on this mound; or if anybody was buried in the holoud

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Jife is over, even if my portion is to be in hell in the next world. I don't think there is a hell, and that is a comfort. You may expect to live in heaven, but I expect a total blank, think of death as a perfect slumber." directed to his sister, closing as fol-lows. 'I shall be glad when this the Electrical Construction Co., and came here over here a year ago from St. Johnsbury, Vermont, In his trunk was found an unfinished letter trunk was found an unfinished letter report of the pistol. The deceased to volque and ai minimal of the saw

A French Scientist Explores the Indian Mounds of the Pacific-Coast Indian Remains on Vanconver Island.

EDITOR BULLETIN.—The sonthern and eastern part of Vancouver Island seem, eastern part of Vancouver Island seem, at a period not very far back, to have been inhabited by a very numerous population: where is a spring of fresh water, or on the farger rivers, we are sure to find traces of former occupation; immense shellbanks and shell mounds exist for miles above and shell mounds exist for miles above the rapids on the arm above Victoria, and sepulchral cairns are to be found by thousands at Cadboro Bay and vicinity. We will try here to describe these retiems and show that the people wholpmilt them is the very same as the one now inting on the island of Vancouver, Puget Sound. punos

the Cowitch in they did not belong to individuals of the sotual tribe of Indians, individuals of the actual tribe of Vancouver Igner of vancouver in the south of they certainly had very great cramping in the bones are only found in a small number of cairns; most of the time we only found the sales, showing that oremation had taken place. In the mounds that I opened in company with Mr. stones set on end with large rooks forming the four corners. It is a very interesting that four corners. It is a very interesting fact to find on this coast remains so similar to what we are used to see in the old Celtic countries; and from such the countries; and trom here I make say that the skulls and bones found in the cairns opened by Mr. James Deans in the cairns opened by Mr. James Deans and myself belong undoubtedly to the sand myself belong undoubtedly to the fadisms, and I will be more positive in saffirming that if they did not belong to affirming that if they did not belong to individuals of the actual tribe of Indians, ge ge rer vit e ii Tyring from a perfect circle to a rectangent with the califie of the califie of the circle to a rectangent much in dimensions and shape, we far form, though the circle to a rectangence most numerous. For the digging of the califie of the speak. In this receptant of a copy of a contemporation and common burial favor three to five feet. In this receptant of the califiers) the receptant of the cleared ground, Then on burial have been in use contemporated burial the technical favoration and common burial level of the cleared ground, Then on the is then filled up with loose earth to the receptacle. All round that central stone of large dimensions are set on one instances 300 or 400 pounds, closes the receptacle. All round that central stone of lorming a circle. Then at a distance of common a tata distance of the differential stone of the califie on the receptacle of the condition of a califie on the rubbish, ashes, when we have cleared the rubbish, ashes, other one of smaller stones and a half to five feet thought one of the condition of a circle. The analyse of the condition of a conical form, of a height of the one of a circle was over the whole was rovered to the same precedular one of a circular mound of a cercular form, of a circular mound a receptacle right of the centre; and instead of two stone circles and the same precedular one of a circular mound a receptacle right in the centre taken to have the receptacle right in the centre taken to have the receptacle right in the centre taken to have the receptacle right in the centre state of the four corners. It is a very interventions stones set on end with large coast remains to we we had to what we are used to see in in the coast of the different seed of the circular seed of the circular seed of the coast remains and the coast of the dincentions are different to we were the coast of the coast of the b ti rate ice te rying from a perfect circle to a rectangu-I will begin by the small sepulchral monds which I design under the name of cairns. This name is used on account of the striking resemblance between this Indian cairn mound and the celebrated cairns of Scotland, Wales, &c., they vary very much in dimensions and shape, vary from a perfect circle to a rectauration. and only one kindol mound, which seems to have been used at the time as a "Kijok-to have been used a burial place; everything taken out of the hut of the natives, the

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that I opened in company with Mr. Deans I found bones in only one in four. The bones are extremely brittle, showing uo Jed -ilo

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