Carolina Dining Services 2021 September Purchasing Period, UNC-Chapel Hill Real Food Calculator Final Report

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I. Executive Summary

In September 2021, UNC purchasing included 21.47% "real food". This means that 21.47% of UNC purchasing met certain certifications that aligned with the Real Food Guides definition of real food. This guide is housed within t he Real Food Calculator, which is a system set into place by a group of stu dent activists and sustainability proffesionals in order to calculate the e xact percentage of real food an institution purchases. Within UNC specifica lly, the percentage of real food is based off the total purchases across it s two dining halls, Chase and Lenoir, which in combined make up Carolina Di ning Services; collequilly referred to as CDS.

II. Real Food Challenge and Intership Overview

The Real Food Challenge was started in 2007 by a group of student activists and sustainability experts. As interns our job is to analyze CDS invoices f or a specific month, and find the exact percentage of real food was account ed for in the total purchasing. As long as this percentage is at or above 2 "Real food" is defined by the Rea 0%, CDS meets the RFCs real food goal. 1 Food Calculator as any item that aligned under its 2.1 standards. CDS use s the 1.1 standards for their definition of real food, as it serves to prov ide a benchline standard of what real food is, and also because the 1.1 sta ndards are the only version that Chancellor Folt signed into effect. We as interns still must also find the 2.1 percentage on top of this, however, as that is the number that the RFC actually takes into account. These standard s include any food products that meets certifications within one of its fou r dividing categories: Local & Community Based, Fair, Ecologically Sound, a nd lastly, Humane. The first of these categories, local, is constituted by any product/product ingredient/distribution center that is within a certain distance of the institution being analyzed. With 1.1 standards this distanc e is capped at 150 miles, but under the newer 2.1 standards, this distance is extended to 250 miles. The second category, fair, is defined as any prod ucts that have/meet certain certifications, such as "Fair Trade Certified by Fair Trade USA and "Ecocert Fair Trade Certified." The third, Ecolo gically Sound, includes products with certifications such as "USDA Organic and "Food Allience Certified". Lastly, the Humane category, includes p roducts that have certifications such as "Biodynamic Certified" and "Ani mal Welfare Approved". One of the largest differences within the humane ca tegory between the 1.1 and 2.1 standards lies within the fact that cage-fre e eggs count with the latter, and not with the former. On top of a product needing to fit into one of the above categories to count as real, it also h ad to pass all of the disqualifier checks. Examples of these disqualifiers includes any item that contained Genetically Modified Organisms (GMOs), any ultra-proccessed foods, and any product that came from a producer known to be a Concentrated Animal Feeding Operation (CAFO). If a product was deemed to align into any of the disqualifying categories, it was immediately count ed as not real no matter how many other certifications it had.

III. Importance of RFC in Carolina Dining

RFC plays a large role within CDS. Although CDS isn't technically legally bound to follow the RFC guidelines, they do year after year as it provides a simple and effective way to incorporate sustainable business practices wi thin CDS. By having a set goal of 20%, there is no uncertainty about how mu ch real food to purchase. By having the definition of real food set at a be nchmark standard under the 1.1 RFC guidelines, there little variability abo ut what specific foods qualify and what foods don't. Incorporating such su stainable business practices, not only within CDS, but UNC as a whole is in valuable not only because it helps the planet, but also because it helps ed ucate and hopefully inspire UNC students/alumni to pick up such actions wit hin their own lifestyle. UNC also being such a large public institution whi le also still visibly caring about putting the planet first could serve to inspire other schools to follow suite in its journey, promoting more sustai nable efforts across the country.

IV. Calculator Methodology

In order to run the calculator accurately, we first had to analyze invoices from the month of September 2021 that Carolina Dining Services provided us. We researched all the items purchased and vendors purchased from in order t o determine which food items would count as real or not real under both the Real Food Calculator 1.1 and 2.1 standards. We called and sent emails to so me companies, but we mostly looked at company websites to determine if the standards were met. RFC employees checked and confirmed our findings so we could finally calculate our results.

V. Final Results

Our final calculations showed that, if only considering the RFC 1.1 standar ds and 20% Real Food goal that Chancellor Folt approved, the Carolina Dinin g Services real food spending was slightly above the 20% threshold and in 1 ine with recent years (**Exhibit A**). The exact spending numbers were \$225,43 9.61 for real food under 1.1 standards out of a total spend of \$1,050,199.7 4, or 21.47%. However, when calculating the spend that counts as real under the newer RFC 2.1 standard, the number is reduced to \$144,209.45, or 13.73% (**Exhibit B**).

By breaking down these real food spend percentages (Exhibit C), we saw tha t locality is a very important criteria when it comes to CDS purchasing, as about 70-76% (about 70% for 1.1 purchasing and about 76% for 2.1 purchasing) of real food purchased are real because they are "local". Very little p urchasing is considered "fair" under both RFC 1.1 and 2.1 standards (less than 3%). The "humane" real food spend percentage decreases from about 20 % to about 12% between 1.1 and 2.1 due to the more strict standards. The lo cal "increase" seen in the Exhibit C charts can be misleading, so it is important to note the decrease in pie size (total real food spend). For the most part, the increased percentage of "local" real food simply makes up for the reduction of "humane" foods, and does not represent an increase i n "local" real food spend from 1.1 to 2.1 standard comparisons.

Exhibit D gives a better look at how the switch from RFC 1.1 to 2.1 standa rds changed the spending percentages per food category. Many categories did not see a change, such as baked goods, beverages, tea/coffee, etc. However, the updated standards had a major impact on the categories of eggs, meat, p roduce, and fish specifically. Most notably, about 80% of egg purchasing wa s considered real under the 1.1 standards, but close to 0% counts under the 2.1 standards. The exclusion of cage-free eggs, farms with too high revenue , and non-wild-caught fish may play a role in these decreases. Exhibit D a lso shows the percentage of spend in each category from September 2021 that were considered "real". For example, about 93% of the tea/coffee that CDS purchased in this month was considered "real", while only 4.6% of dairy p urchasing was considered "real". The categories with 20% or more counting as "real" under 2.1 are baked goods, poultry, fish, and tea/coffee. If co nsidering 1.1 standards, this list extends to include eggs, meat, and produ ce. The beverage, dairy, and grocery category percentages remain low when c onsidering either standard.

We also decided to measure CDS's spending on products from women and minor ity owned (or co-owned) businesses, which is something the previous UNC RFC audit intern groups have not researched (**Exhibit E**). We found that about 1 1% of spending goes to such businesses, with about 7% going to minority own ed or co-owned businesses and about 4% going to women owned or co-owned bus inesses. .1% of spending falls into both categories, meaning minority women own or co-own the businesses.

VI. Comparison to Previous Years

We compared our findings, data, and recommendations with past groups - name ly, the groups who analyzed the purchasing periods of September 2019 and Fe bruary 2020. This was done to keep track of trends, how the COVID-19 pandem ic impacted CDS purchasing, and what past groups thought of RFC.

September 2019 Purchasing Period:

- Real food purchasing was calculated at 21.4%
- Recommended the following for RFC:
 - More clarity on definitions, certifications, and disqualificati ons
 - I.e. Why are concentrated animal feeding operations (CAFOs) considered a disqualifier? What makes certa in certifications more useful towards assessing rea 1 food than others?
 - Recommended that revenue caps for the "local" qualifica tions be removed
 - Recommended that more certifications towards the "fair"
 , "ecologically sound", and "humane" qualifications b
 e used
- Recommended the following from CDS:
 - More purchasing of USDA certified food for both dining ha lls
 - More promotion of RFC guidelines and general sustainabili ty in the dining halls
 - Stated that social media campaigns and management o f databases by RFC interns are the most optimal way to do this

February 2020 Purchasing Period:

- Real Food purchasing was calculated at 12.4%
- Noted that COVID-19 restrictions made contacting vendors difficult. T hus, a lack of transparency ensued.
- Recommended the following for RFC:
 - Concluded that RFC does not give enough transparency and should strive to have more accessibility with definitions, certificati ons, and qualifications
 - Does not give enough consideration towards alternative sustaina ble measures
 - Only measures individual product sustainability rather than sup ply chain sustainability
 - Notwithstanding, it was reported that access to other yearly re ports was easily accessible
 - Recommended the following for CDS:
 - Hiring a full-time sustainability coordinator
 - Evaluate RFC standards and guidelines more carefully
 - Phasing out of RFC due to limitations and lack of transparency
 - More campus involvement for dining hall sustainability
 - Creating an internal standard that is easier and more coherent for CDS themselves

VII. What Changed?

Our report found that CDS is improving their purchasing of real food for so me food items while not making improvements for others. We found that a per centage increase exists for baked goods, beverages, dairy, meat, and produc e. On the contrary, the percentage of real food purchased appears to be dec reasing with eggs, grocery items, poultry, fish, tea, and coffee all being lower than they were from the September 2019 and February 2020 reports. It is possible, however, that such increases or decreases are the result of me thodological differences between groups. **Exhibit F** shows the differences b etween September 2019 and September 2021 while **Exhibit G** shows the differences b nces between February 2020 and September 2021.

In terms of real food per category (local, fair, ecologically sound, and hu mane), CDS appears to be purchasing more products certified as fair compare d to the February 2020 report. This is indicated by the increase of 0% from the February 2020 report to 2% calculated from our data. We found, however, that roughly 70% of real food calculated qualifies as local while the Febru ary 2020 report found this percentage to be at 85%. We additionally found t hat nearly 10% of the real food calculated qualifies as ecologically sound and 20% qualifies as humane. These percentages are both lower than the Febr uary 2020 report which found real food that qualified as ecologically sound to be at 15% and real food that qualified as humane to be at 43%. The Febru ary 2020 report noted, however, that percentages calculated did not add up to 100% due to several products existing under more than one category. It i s not made clear in this report which products exist in several categories or which two or more categories they fall under. Exhibit H compares the di fferences found between the February 2020 purchasing period and the Septemb er 2021 purchasing period.

VIII. Challenges & Observations

There were several challenges in regards to the RFC standards. Both CDS and us interns agree that the 1.1 and 2.1 standards are too selective. Their ex clusion of certain practices and certifications creates tensions between RF C and CDS.

First, there is the exclusion of sustainable farming practices in the stand ards. RFC does not recognize efforts within a farm to become more sustainab le, and instead only rely on an ecologically-sound certification. Decreasin g chemical use by replacing pesticides, herbicides, and insecticides with n atural alternatives is unrecognized. Adopting sustainable practices, such a s evapotranspiration and integrated pest management, are also unrecognized. Underneath the RFC standards, sustainable farms that are not entirely organ ic, but are still making efforts towards organic, are viewed the same as fa rms that drown their produce in toxic chemicals.

There is also no recognition of companies that have B-Corp certification. B -Corp measures a company's potential negative impact on the environment an d communities by researching their policies and practices. The median score for an ordinary business is a 50.9 and the qualifying score is an 80. There are currently over 4000 food and beverage companies that are B-Corp certifi ed. CDS already purchases from three of them: Danone (score: 96), Bigelow (score: 81.6), and Larry's Coffee (score: 109.6). There are many more compa nies that CDS can purchase from to improve their internal sustainability go als rather than completely go by how RFC defines sustainability.

RFC also does not take into account minority-owned or female-owned business es. CDS currently purchases 10.84% of their food items from women and minor ity owned businesses. This could easily become a standard as there are cert ifications that fall into this category, including Women-Owned certificatio n and Minority Business Enterprise certification.

Alternative proteins are also absent from the RFC standards. This is partic ularly problematic as alternative protein consumption is predicted to conti nue to grow in consumption over the decade, and continue this upward trend in the 2030s. (Brigl) Under the standards, alternative proteins are automat ically disqualified because they are considered ultra-processed. This is pr oblematic as some alternative proteins can meet RFC's standards. For examp le, Twin Oaks Tofu meets RFC ecologically-sound criteria because they are c ertified USDA organic, but are then disqualified because they are an altern ative protein. RFC is currently working on creating a new standard for alte rnative proteins, but there is no timeline for when this standard will be f inished.

RFC is also inconsisent with their local definition. For example, they said that Larry's Coffee, which is from Raleigh, does not count as local becaus e they source their coffee beans from Bolivia. However, they said that Manh attan Bakery, which is from Morrisville, *does* count as local even thought t hey source their baking ingredients from Vermont. It is also interesting to note that RFC considered Manhattan Bakery as not local the year prior becau se their ingredients are from out-of-state. There is a clear lack of consis tency from RFC in how they define local for products that contain non-local ingredients.

Our group also made important observations of CDS and RFC's relationship. Most notably, there are obvious tensions between both parties. CDS prefers to stick with 1.1 standards, whereas RFC would like for them to start using 2.1. CDS prefers more flexibility n what they consider sustainable purchasi ng, whereas RFC prefers more selectivity based on certifications.

These tensions have left CDS unsure of what the future of working with RFC looks like. CDS wants to include women-owned and minority-owned businesses

as part of their sustainability goals, and they have the opportunity to int roduce B-Corp and alternative proteins as well. They also have the opportun ity to recognize and purchase from farms that use sustainable practices.

The differing perspectives within CDS has made it difficult for them to mak e steps towards defining their sustainability goals. Some CDS employees wan t to create internal standards, and others want to keep RFC 1.1 as a purcha sing measurement. However, everyone agrees that that CDS needs to know what the students want, but little to no research has been done to find out; the re hasn't been a student survey about sustainable purchasing since 2017. H owever, there is currently a survey awaiting approval as of April 2022, whi ch was created by the newly-hired Sustainability Manager, Victoria Hill. Ms . Hill was hired in the beginning of April 2022.

There is currently a serious lack of student outreach, which can be used to determine CDS' goals and to promote their current goals. Communication has been out-of-date due to tensions and differing perspectives, for example, t he majority of Lenoir's signage about sustainability is incorrect. The UNC RFC logo is also absent from all CDS related events and buildings as well. However, with the recent hiring of Ms. Hill, there is an optimistic hope wi thin CDS for improvements in both defining their goals and in marketing the se goals as well.

IX. Recommendations

As mentioned in the previous sections, we have faced multiple challenges wh ile completing research for the Real Food Challenge. The previous section o f this reported about the specifics of the challenges that we have faced, a nd in this section we have compiled a list of potential recommendations tha t can make this efficient, and enjoyable project for all stakeholders invol ved.

- 1. <u>Looking into different standards:</u> Our group has experienced the short coming of the real food challenge. We desire a standard that can enco mpass for the multiple brands/vendors that we have determined as sust ainable, yet did not count according to the standard; however, the st andards should not be too lenient as it will introduce threats of gre enwashing. More specifically, the changes that we want to see include :
 - Including B-corp as a standard.

- Food item should also be defined local depending on where it is processed.
- Recognition for minority or woman owned businesses.
- Addressing environmental justice within the food industry and t he different intersectionalities of this issue.
- Encouragement of alternative protein.
- GMOs and over-processed should not be a disqualifier when it co mes to alternative protein.

Because of these shortcomings, our group has researched a number of p ossible options. The decision matrix for these recommendations were,

- a) They are similar scale to the Real Food Challenge, looking into a large portion of campus food purchasing and can be compared w ith other institutions
- b) The information should be somewhat comparable to previous resea rch.
- c) It should be a realistic option that UNC can implement.

The pros and cons of each option will also be listed in the section b elow. As the results from the sustainable foods survey is evaluated U NC can choose an option that accurately represents what sustainabilit y means to students.

a. Create internal UNC standards.

- i. The method will allow UNC to create standards that most a ccurately represent what the students view as sustainable. It will allow UNC to become more rigorous with their su stainable food standards, or more forgiving to give credi t to sustainable farms/vendors.
- ii. There is a high possibility that internal standards will fall through, and not be kept up to date.
 - To prevent this from happening, there needs to be m ultiple checks and balances institutionalized, whic h will require resources and good organization.
- iii. A lot of communication will be needed for UNC to come to an agreement as to what these standards will look like.
- iv. The internal standards may not be comparable to previous data.
- **b.** Changing to AASHE (the Association for the Advancement of Sus tainability in Higher Education) standards.
 - i. AASHE has more lenient guidelines which can potentially a lign with what UNC views as sustainable. They also accoun

t for alternative protein ("Food and Beverage Purchasing
- the Sustainability Tracking, Assessment & Rating System
").

- ii. AASHE is one of the only guidelines that compares to the Real Food Challenge when it comes to scale. The AASHE sta ndards can also be used to compare and contrast UNC's pr ogress with other institutions.
- iii. Because of their more lenient guidelines there is a highe r risk of greenwashing.
- iv. AASHE works in collaboration with the Real Food Challenge so there will be little change into what the interns will need to monitor. This can be beneficial as the informatio n will be more comparable to past research; however, it a lso means that there will be little substantive change fr om the real food challenge.

b. Resign contract with Anchors in Action standards.

- Real Food Challenge has announced that they will be updat ing their standards around next year and this will be nam ed Anchors in Action (AiA Standards Alignment Project). T hese standards will account for alternative protein, and address environmental justice.
- ii. These standards will still be somewhat comparable to prev ious research.
- 2. <u>Institutionalizing the Real Food Challenge:</u> During the internship we have realized the intersectionality that is embedded within the Real Food Challenge. There was far much more work that we wanted to do, bu t simply did not have the time to do so. There was also internal poli tics that we have experienced, and conflicting interests between diff erent groups. For these reasons we have explored the possibility of i nstitutionalizing the Real Food Challenge through creating paid inter nships or positions that will incentivise students/employees to go ab ove and beyond. These students/employees could do more than simply mo nitoring CDS, and help with marketing or other sustainability initiat ives within CDS.
- 3. <u>Creating internal management plans:</u> Another challenge that we have fa ced is the fact that the Real Food Challenge internship is disorganiz ed. It was difficult to orient ourselves in the beginning of the inte rnship, with a few improvements this internship could be more effecti

ve and efficient. We have also found that there is not enough communi cation between the different stakeholders (CDS, RFC, the E3P departme nt, and interns). In turn, this made us question what we were doing, and why we were doing all this research. This section of recommendati ons will contain steps that can be taken to make the internship more organized and improve communication between the different contributor s.

a. Creating an internal group contract amongst interns.

- i. At the beginning of the internship interns should discuss amongst themselves and create an internal contract. Altho ugh communication and work distribution was not a problem for our group, it could be a matter of conflict for futur e groups. This contract will open the door for communicat ion amongst interns, and prevent disputes from happening. The contract will include information such as:
 - 1. Agreement on work distribution, and steps that will be taken if a teammate does not complete their work
 - 2. Creating a clear line of communication between inte rns.
 - 3. Expectations for meetings, what attitude should stu dents bring when meeting amongst themselves.
 - 4. What steps should be taken if the interns come to a disagreement.
 - 5. Organization of meetings, and an outline of what in ternal meetings will look like.
 - 6. Internal timeline and deadline.
 - a. This should be realistic and achievable.
- ii. This contract will be reviewed by mentors to ensure that it is fair and realistic.

b. Creating turnover documents.

- i. Although we had access to previous RFC reports and presen tations, we felt the need for more comprehensive document s that would help interns at the beginning of the interns hip. The next group of interns should create turnover doc uments towards the end of the internship, and if possible , previous interns should help during this process.
- ii. The turnover document will include information such as:1. How to start the research.

- 2. What resources are available.
- 3. Tips from previous interns.
- 4. What meetings will look like.
- 5. Time table.
- 6. Contact template.
- iii. In turn, the turnover documents will also make sure that the research that each group is doing is similar, and com parable. It will create a standardized baseline for the r esearch and monetization that interns need to do.

c. Clear indication of the role of the mentors.

- i. The exact role of the mentors was unclear throughout the internship. It would be beneficial for future interns if there was a clear indicator of mentor involvement.
- d. Ensuring regular meetings between interns, CDS, and mentors.
 - i. We believe that there is a need for regular meetings betw een interns, CDS, and mentors. This will also provide the chance for all parties to communicate, and avoid miscommu nication. In these meetings the interns will be the pione ers of the conversation. This is a possible layout for th e meetings:
 - 1. Interns report the progress that they have made.
 - a. The mentors and CDS representatives will provide feedback
 - Interns will prepare questions that they want to as k, and ask during the meeting.
 - 3. The remaining time will be used for discussion.

X. Conclusions and Takeaways

This was a very valuable learning experience for us interns. We have conclu ded the research successfully, and UNC has managed to reach 21.48% Real Foo d purchasing using 1.1 standards in September of 2021. Our numbers were rev iewed with Real Food Challenge, and compared with the numbers that CDS had, therefore, we are fairly certain that they are accurate. Compared to the pr evious group our numbers have increased dramatically, but this may have to do with differing methodology. Yet, compared to other groups, numbers are s imilar. Due to COVID-19 related supply chain issues we have purchased more from Cheyney compared to other years. Overall, our numbers are comparable t o previous groups.

The challenges that we have faced do not come from the research, but the Re al Food Challenge guidelines and the internal miscommunication. The Real Fo od Challenge guidelines are limiting and do not perfectly align with what w e view as sustainable. This is apparent when it comes to alternative protei n and B-corp. Besides this, we have found it challenging to navigate our re search when there are conflicting interests amongst the different stakehold ers. To mitigate these issues we recommend making adjustments to what guide lines that we adhere to. Additionally, there should be more communication a nd organization between stakeholders to ease the research process for futur e interns.

We have found that there is no unified view on the future of Real Food Chal lenge and what purpose it serves. Although our job is to simply monitor CDS food purchasing, this is not fulfilling enough considering all the possibil ities that this internship has. There should be an agreement on what the pu rpose this internship serves. We hope that this internship further develops into something great that can create a more sustainable campus.

XI. References

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XII. Appendix



Exhibit A. Percentage of Real Food Spend Under 1.1 Standards Over Time: Carolina Dining Services' "Real Food" spend has remained relatively cons istent over the past few years since the 2015-2016 school year and continue s to be above the 20% goal.



Exhibit B. Percentage of Real Food Spend in September 2021 Under RFC 1.1 and 2.1 Standards: The percentage of spending that qualifies as real food

is shown by the smaller orange slice. The stricter 2.1 standards cause the percentage to decrease.



Exhibit C. Breakdown of Real Food Spending in September 2021 by RFC Cate gories: Locality is a very important criteria when it comes to CDS purchas ing, as about 70-76% of real food purchased are real because they are "loc al". Very little purchasing is considered "fair" under both RFC 1.1 and 2.1 standards. The "humane" real food spend percentage decreases between 1.1 and 2.1 due to the more strict standards. The local "increase" seen i n these charts can be misleading, so it is important to note the decrease i n pie size (total real food spend). For the most part, the increased percen tage of "local" real food simply makes up for the reduction of "humane" foods, and does not represent an increase in "local" real food spend from 1.1 to 2.1 standard comparisons.



Exhibit D. Breakdown of Real Food Spending in September 2021 by Food Cat egory: This chart better shows the impact of the standard change between RF C 1.1 and 2.1. You can see from the decreased percentages from 1.1 to 2.1 t hat the 2.1 standards are more strict in certain categories. This graph als o shows the percentage of spend in each category from September 2021 that w ere considered "real". For example, about 93% of the tea/coffee that CDS purchased in this month was considered "real", while only 4.6% of dairy p urchasing was considered "real".



Exhibit E. Breakdown of Women and Minority Spending in September 2021: T his graph shows the breakdown of women and minority spending. Of the ~11% o f spending that went to women and/or minority owned (or co-owned) businesse

s, about 7% went to minority owned (or co-owned) businesses and about 4% we nt to women owned (or co-owned) businesses. About .1% actually went to busi nesses that were minority women owned (or co-owned).

	Sep. 2019 Pur chasing Perio d	Sep. 2021 Pur chasing Perio d
Baked	0%	11%
Beverages	0%	1%
Dairy	1%	2%
Eggs	20%	13%
Grocery	5%	4%
Meat	7%	23%
Poultry	36%	9%
Produce	5%	26%
Fish	21%	10%
Tea/Coffee	5%	4%

Exhibit F. Comparison of Real Food per Food Item from September 2019 to September 2021.

	Feb. 2020 Pur chasing Perio d	Sep. 2021 Pur chasing Perio d
Baked	N/A	11%
Beverages	N/A	1%
Dairy	0. 2%	2%
Eggs	N/A	13%
Grocery	4%	4%
Meat	4%	23%
Poultry	42%	9%
Produce	10%	26%
Fish	32%	10%
Tea/Coffee	9%	4%

Exhibit G. Comparison of Real Food per Food Item from February 2020 to S eptember 2021.

Category	<u>Feb. 2020 Purchasing Peri</u> <u>od**</u>	<u>Sep. 2021 Purchasing Per</u> <u>iod**</u>
Local	85%	70%

Fair	0%	2%
Ecologically Sound	15%	10%
Humane	43%	20%

Exhibit H. Comparison of Real Food per Category from February 2020 to Se ptember 2021.

**Percent does not add up to 100 as some products fall under multiple categ ories