Economic Feasibility of Mass Timber Manufacturing in Minnesota

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The researchers were asked to supply a market demand study, a lumber availability and an economic impact analysis only. This analysis does not consider the social or environmental impacts of the project and should not be viewed as a cost benefit analysis or environmental impact assessment.

Executive Summary

The Bureau of Business and Economic Research (BBER) at the University of Minnesota Duluth's Labovitz School of Business and Economics was contacted by Area Partnership for Economic Expansion (APEX) to study the market and economic feasibility of introducing Mass Timber manufacturing (e.g. cross-laminated timber (CLT) production) for the state of Minnesota and/or Minnesota's Arrowhead Region. The BBER partnered with the UMD Center for Economic Development (CED) on this project. The overall study addresses three primary objectives: an analysis of building construction market demand growth and projections, an estimate of the current and potential ability of local lumber producers and wholesalers, and an economic impact analysis of the new industry in the region.

Cross-laminated timber (CLT) is a wood panel system that has been gaining popularity after being widely adopted in Europe. CLT can be described as large-scale, prefabricated, engineered wood panels. It is made up of several layers (typically three, five, or seven) of dimension lumber stacked in alternating directions, bonded with structural adhesives, and pressed to form a solid, rectangular panel. Its strength, dimensional stability, and rigidity make it an advantageous construction material.

The first objective of this study was to complete a current market analysis of the cross-laminated timber (CLT) industry, including a summary of recent and projected market trends, statistics on recent building and construction trends, and an overview of the benefits and challenges associated with CLT construction. The UMD Center of Economic Development (CED) relied on secondary data sources to compile the information included in this section.

Grand View Research reports that in 2016, the global cross-laminated timber market was valued at \$558.6 million and expected to grow to \$2.07 billion by 2025. Areas of the world that show increased awareness and use of CLT include Europe, North America, and Asia Pacific regions. In North America, demand for CLT was valued at \$118.8 million in 2016, and the expectation is that the region will be the second largest CLT market for the foreseeable future.

Recent trends in multi-family housing along with a trend toward more sustainable building practices have also positively impacted the demand for CLT. Both the number of multi-family housing unit permits issued in the U.S. as well as nonresidential construction expenditures in the commercial, manufacturing, and office sectors has exhibited positive growth. These construction types are among the most popular projects involving CLT and mass timber. Sustainable building systems such as LEED-certified projects and the ICC 700 National Green Building Standard are also likely to drive demand for more green building materials.

Challenges that face the effective implementation of mass timber and CLT products include a potential lack of experience with/understanding of the construction method, restrictive building codes and permits, and learning curves among engineers, architects, and developers. Benefits of this type of construction include speed and ease of constructing modular systems, durability and strength, lower costs, and the opportunity for a green alternative to traditional construction materials.

The second objective of the study was to estimate the current and potential abilities of local lumber producers and wholesalers to supply CLT-suitable lumber. To accomplish this objective, the BBER distributed surveys to Great Lakes states' sawmills and lumber distributors with the intent of determining the current and potential lumber being produced and distributed in the Great Lakes region that would be suitable for CLT manufacturing. Eight regional sawmills and eleven distribution locations provided data for the study.

Regional sawmills reported currently producing 300 million board feet (MMBF) of lumber in the grades and species suitable for producing CLT. Nearly three-quarters of that total volume (223.5 MMBF) was red pine. The remaining quarter was split about equally between spruce and jack pine (41.5 and 40.8 MMBF,

respectively). Only a very small volume of balsam fir was produced in the region (0.7 MMBF).

More than half of the surveyed mills' current production was reported as 2×4 lumber, which is not currently preferred for CLT. When asked, however, about potential production capabilities in 2×6 or 2×8 dimensions, mills reported the ability to increase production to roughly 250 MMBF if there was a preference for wider lumber. This U.S. lumber is from the spruce-pine-fir south species classification (SPFs).

Wholesalers reported that they distribute roughly 100 MMBF of 2 x 6 and 2 x 8 lumber suitable for CLT but predicted they could supply more than double that volume if there was demand for the product. Roughly 60% of the total volume (58.4 MMBF) distributed in the last year was spruce-pine-fir (SPF), and 37% was southern yellow pine. Only a very small volume of Douglas fir-larch was distributed in the region (4.8 MMBF).

Additionally, the BBER estimated that more than 1,200 MMBF of lumber are being exported from Canada to Minnesota and Wisconsin. While not all of the lumber exported from Canada is suitable for CLT production, it highlights the significant opportunity for additional material just across the border. For example, if even a quarter of that amount was suitable for CLT, it would mean an additional 300 MMBF of lumber.

The third and final objective of the study was to estimate the potential economic impacts of a CLT firm locating in the state of Minnesota or the Arrowhead region. According to the results of modeling, for every worker directly employed by a CLT manufacturing firm, the state of Minnesota could see an estimated 0.9 additional jobs created in supporting industries, such as wholesale trade, management of companies and enterprises, and sawmills.

In total, if a small CLT firm (employing 20 workers) was to locate somewhere within the state of Minnesota, the state's economy could see an additional \$2.5 million in labor income, \$3.3 million in value added spending, and 38 jobs throughout the state as a result of the new firm. If a large firm or cluster of firms were to locate somewhere within the state, these impacts could be significant: \$12.4 million in new labor income, \$16.4 million in value added spending, and 190 jobs could result from such an investment.

The results of this study demonstrate increasing awareness and use of CLT in North America, due primarily to the growth of multi-family construction and a demand for more sustainable building materials. In addition, the study found that lumber mills and wholesalers in the Great Lakes region produce and distribute more than enough lumber in the grades and dimensions suitable for CLT manufacturing and have the ability to increase production and distribution volumes if there was a demand for the product. Finally, the results show the significant economic impacts that could result from a new CLT firm locating in the region: for every CLT employee, the state could see an additional 0.9 workers in supporting industries as a result of the firm's direct, indirect, and induced effects.

Introduction

The Bureau of Business and Economic Research (BBER) at the University of Minnesota Duluth's Labovitz School of Business and Economics was contacted by APEX to study the economic feasibility of introducing Mass Timber manufacturing, including cross-laminated timber (CLT) production, to the state of Minnesota and/or Minnesota's Arrowhead Region. The feasibility study included three primary components: an analysis of mass timber market demand growth and projections, an estimate of the current and potential ability of local lumber producers to produce CLT-suitable lumber, and an economic impact analysis of the new industry in the region.

The BBER partnered with the UMD Center for Economic Development (CED) on this project. In addition, representatives from Minnesota's Department of Natural Resources (MnDNR), U.S. Forest Service (USFS), Minnesota College of Design (MCD), and the Area Partnership for Economic Expansion (APEX) served as subject matter experts, participated in regular team meetings, and provided the BBER and CED with connections to CLT industry leaders, local timber producers, forestry professionals, and other appropriate resources needed to support the project.

Descriptions of the three chapters of the report are listed below.

Market Demand

In this section, the CED outlines an overview of CLT, provides a market analysis of the CLT industry, and summarizes construction data on the recent national and Midwest trends. In addition, the chapter highlights some common barriers to market, such as the existing regional codes and regulations, which may impact the usage of CLT in residential, commercial, or industrial construction.

Lumber Availability

This section provides the evaluation of the current and potential volume of CLT-suitable lumber being produced and distributed throughout the state of Minnesota and the surrounding region. The chapter includes the results of two surveys developed and distributed by the BBER: one given to lumber producers and one to distributors. The surveys evaluated the current and potential ability of local producers and distributors to supply lumber to a potential CLT manufacturer. In addition, the chapter provides information on the volume of lumber imported to the region from Canadian lumber producers.

Economic Impact Analysis

In this section, the BBER estimates the potential economic impacts that could result from a CLT manufacturing firm in the Arrowhead region or the state of Minnesota. The chapter includes information on the economic characteristics of the two study areas, the inputs used in modeling (number of employees, wages, and annual sales), and the results of three scenarios, each of which represents a different size firm.

The primary geographic scope for the study (i.e. the study area used for modeling the economic impact analysis) is the state of Minnesota with a special focus on the Arrowhead Region of the state. For the other portions of the study (market demand and lumber availability) the geographic scope was determined based on factors such as data availability, building code requirements, and transportation costs.

Chapter I. Market Demand

For this portion of the study, the Center for Economic Development (CED) relied on secondary data sources to provide an overview of cross-laminated timber (CLT), a market analysis of the CLT industry, and a summary of recent construction data on national and Midwest trends. Finally, the chapter concludes with some high-level benefits and challenges associated with CLT construction that should be considered.

Overview

While most people are knowledgeable with what is known as stick framing in construction, mass timber takes engineered wood construction to a new level. Mass timber is defined as building construction where the primary load bearing members in the structure are made up of wood, including engineered wood products and/or large dimension solid sawn wood (The Beck Group 2018).

Forms of Mass Timber

- Cross-Laminated Timber (CLT)
- Nail-Laminated Timber (NLT)
- Dowel-Laminated Timber (DLT)
- Glue-Laminated Timber (Glulam) (GLT)
- Structural Composite Lumber (SCL)

While there are five forms of mass timber, this report focuses primarily on the first form, cross-laminated timber, or CLT.¹

Cross-laminated timber (CLT) is a wood panel system that is gaining in popularity in the U.S. after being widely adopted in Europe. CLT is the basis of the tall wood movement, due to the material's high strength, dimensional stability, good fire performance, and rigidity allow it to be used in commercial construction applications.



MARTINELL, 2018

According to Think Wood (2019), CLT panels are typically three, five, or seven layered boards that are stacked crosswise at 90-degree angles and glued together. Dimensions for the manufactured panels can be customized, however, the length is affected by transportation restrictions.

CLT may be utilized with other traditional engineered wood products and building systems and can be used in

¹ Definitions for nail-laminated, dowel-laminated, glue-laminated timber, and structural composite lumber, along with all other report definitions, can be found in Appendix A.

hybrid applications with materials such as concrete and steel. It can also be used in prefabricated buildings, which can shorten construction timelines (Think Wood 2019).

The growing market for CLT and tall wood construction, according to Think Wood (2019) is impacted by three main factors: advances in wood connectors, the development of hybrid materials and building systems, and the commercialization of CLT and growth in its off-site fabrication.

In structural systems, such as walls, floors and roofs, CLT panels are load-bearing, Think Wood (2019) reports. For use in wall construction, the outer layers of lumber in a CLT panel are typically vertical. This maximizes the wall's vertical load capacity. In floor and roof applications, the outer layer of lumber used in the panels runs parallel with the span (Think Wood 2019).

Due to CLT's tremendous strength, architects and other designers are developing new uses for wood, such as in wide prefabricated floor slabs and single-level walls and taller floor plate heights explains Think Wood (2019). Additionally, designers know that building interiors gain more aesthetic qualities with exposed CLT.

Cross-Laminated Timber (CLT) Market Analysis

According to Grand View Research (2017), the global cross-laminated timber market size was valued at \$558.6 million in 2016 and is expected to reach \$2.07 billion by 2025.

In terms of volume, the research company states that the CLT market is expected to grow at a compound annual growth rate (CAGR) of 15.1% from 2017 to 2025 due to increasing awareness of sustainable housing. The residential segment is expected to witness the fastest growth, at a rate of 15.4%, in terms of revenue, from 2017 to 2025 owing to high product demand in developed countries.

Educational facilities and residential builders are anticipated to drive the CLT market significantly upward in North America, where in 2016, the CLT market size value was \$65 million (Grand View Research 2017).

In 2016, the demand for CLT in North America was valued at \$118.8 million, and the continent is anticipated to continue as the second largest market until 2025 (Grand View Research 2017). CLT is expected to see market growth until 2025 due to several factors, such as its competitive price, high thermal performance, and insulation properties complemented by consumers' increased knowledge of wood's uses for construction, and continued worldwide sustainability issues, reports Grand View Research in its study for years 2017-2025.

Increasing consumer demand for upscale apartments is likely to have a positive impact on the industry growth as is the increasing use of the wood for walls, floors, and ceilings in residences.

With its simple construction, durability, fire and earthquake resistance ability, and other factors, CLT is becoming a popular construction material that will likely drive the demand for the market over the next seven years (Grand View Research, 2017). CLT is seen as a sustainable with a lower carbon footprint and is a low-cost alternative to steel and concrete building materials.

North America, Europe, and Asia Pacific regions are also becoming aware of CLT, increasing its popularity and thus, its potential impact on the market. Major players in the industry continually pursue technological advancements to manufacture quality products and increase efficiency (Grand View Research 2017).

Material Use and Market Trends

The chart below from The Beck Group shows what primary structural material is being used for mass timber projects. At the end of 2018, mass timber projects were about evenly split between projects that primarily used solid sawn lumber (post and beam, heavy timber decking) and those that used mass timber panels (CLT, NLT).

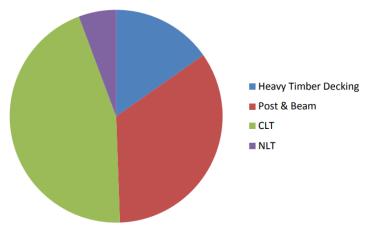


Figure 1. Mass Timber Projects by Primary Structural Material

THE BECK GROUP, 2018

Shown in Figure 1 is the U.S. cross-laminated timber market revenue by type from 2014 to the projected 2025 levels. With the adhesively bonded type represented in purple, it is clear that this style dominates the market; most likely due to its enhanced durability and performance. The segment is expected to account for a significant market share over the period of 2017-2025.

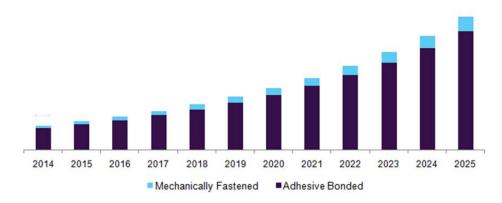


Figure 2. U.S. Cross-laminated timber Market Revenue, by Type, 2014-2025 (Millions of USD)

GRAND VIEW RESEARCH, 2017

According to a study conducted by Grand View Research (2017), 88% of the CLT global market in 2016 utilized adhesive bonding. With CLT's strength and seismic performance, demand for CLT products is expected to grow significantly over the coming years, and adhesive bonded CLT is predicted to continue to dominate the market. However, environmental concerns about adhesives are anticipated to hamper the growth of this type of CLT.

In 2016, the mechanically fastened segment of CLT was valued at \$63.7 million. While mechanically fastened CLT represents a relatively small portion of the market as compared to the adhesive bonded form, Grand View Research expects this segment to grow with respect to its overall market share due to the product's effective recycling and increased demand from the North American and European regions (Grand View Research 2017). The trend to environmentally friendly products by consumers is also expected to heighten product appeal and use.

National CLT Projects

The Beck Group cites WoodWorks as having the most input regarding the designed and/or built Mass Timber structures in the U.S. and with tracking the number of Mass Timber projects (whether WoodWorks offers direct assistance or not). Figure 3 illustrates the number of new U.S. Mass Timber projects by year (The Beck Group 2018). However, Woodworks² (2018) has accounted for 487 total projects for 2018. This means that more than 230 projects (roughly) were completed over what the firm anticipated, as shown in Figure 3. See Appendix B for more detail.

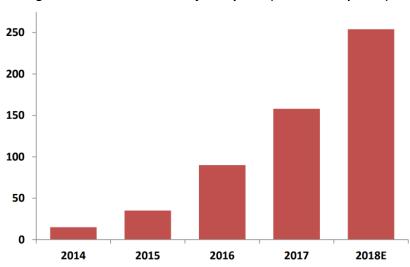


Figure 3. U.S. Mass Timber Projects by Year (2014-2018 Expected)

THE BECK GROUP (WOODWORKS), 2018

Midwest CLT Projects

As of December 2018, WoodWorks data shows that Minnesota had one building where construction was started or completed using mass timber and two buildings made of mass timber in design.

The Midwest Region of Minnesota, Wisconsin, Iowa, North Dakota, South Dakota, Michigan, Illinois, Kansas, Montana, Nebraska, and Ohio had 14 buildings where construction was started or completed with mass timber. There are also 38 buildings made of mass timber in design in the Midwest (WoodWorks 2018).

Of note, is Minneapolis's T3 building—the first modern, tall wood building in the U.S. Built in November 2016, the seven-story, 220,000-square-foot structure, altered parameters within the commercial building industry. T3 demonstrated how extremely large timber projects could be used to reduce the carbon footprint of the

² See Appendix B for the full WoodWorks data.

built environment while also creating engaging and inviting spaces. Inside, exposed glulam columns and beams, and nail-laminated timber (NLT) floors, offer a modern interpretation of historic wood buildings found in many U.S. cities. According to Woodworks, the development of efficient systems took considerable effort, resulting in a reduced production schedule from the perspective of cost and construction. The timber erection was completed in 2.5 months at an average of nine days per 30,000-sf floor. The project team estimates that T3 is 30% lighter than a comparable steel design and 60% lighter than post-tensioned concrete, which allowed them to reduce the depth of the foundation. Hines, the firm that developed T3, plans to leverage the design for a suite of similar wood office buildings. (WoodWorks n.d.)

Competitive Insights

The global CLT market is dominated by the principal entities of Stora Enso, Mayr-Melnhof Holz, Binderholz, XLam Ltd., Sterling Lumber, Schilliger Holz AG, KLH Massivholz GmbH, B & K Structures, Eugen Decker Holzindustrie KG, Structurlam, SmartLam, and Meiken Lamwood Corp. These companies are increasing their ability to produce CLT-suitable lumber to fulfill the worldwide massive product demand (Grand View Research 2017).

Manufacturers are investing heavily in CLT research and development not only to enhance product quality but also to overcome the barriers of using CLT (Grand View Research 2017). These technological advancements along with competitive pricing are expected to aid manufacturers in increasing their market share over 2017-2025, reported Grand View Research (2017).

Katerra, an advanced technological construction firm, has invested in a CLT plant in Spokane, Washington, with production slated to begin in early 2019. The plant is expected to help scale up the U.S. production of CLT and increase the adoption of CLT across the construction industry. (Katerra 2019) (Dalheim, Katerra receives \$865 million to fund massive cross-laminated timber plant 2018)

In 2017, SmartLam, the first commercial manufacturer of CLT in the nation, expanded its operations and headquarters into a former Weyerhaeuser lumber mill property—quadrupling the manufacturer's production. (Dalheim, SmartLam Quadruples Cross-laminated Timber Production at Former Weyerhaeuser Site 2017)

Construction Statistics

The statistics shown in this section include trends in housing and commercial construction, both nationally and in the Midwest. The information shown was provided primarily by Delton Alderman, Research Forest Products Technologist, USDA Forest Service in his report, *Housing Market Statistics: Nation, Midwest Region, and Minnesota Metropolitan Statistical Areas*, unless otherwise noted. The additional citations in these sections are those from his report. Please see Appendix C. for the full report.

Figure 4. U.S. Housing Permits, 2000-2018.

DELTON ALDERMAN, U.S. CENSUS, BBER

Figure 4 shows the change in U.S. housing permits since 2000. The number of housing permits has been slightly increasing since 2011 after the dramatic decline resulting from the Great Recession. It is important to note, however, the stability of 5 multi-family or larger housing permits. These types of permits saw less of a decline from 2008-2012 and have rebounded past pre-recession levels. It is also important to note that CLT, when used for housing, is more commonly used in large apartment buildings. CLT has been used in this capacity in new apartment complexes in Montreal (Menayang), East London (Block) and is slated for a proposed complex in Las Vegas (Glenn).

Approximately 121.2 million primary residences existed in the United States in 2017. Of those, almost 26.7 million units were in the Midwest region (U. S. Census Bureau-American Housing Survey, 2018a). Estimates from the U.S. Energy Information Administration (2018) for commercial buildings show almost 5.6 million commercial buildings in 2016 with 1.2 million in the Midwest. Moreover, nearly 55 percent of the buildings were constructed before 1990, and of those, 63 percent were only one level. In 2017, an estimated \$6.2 billion were spent for residential construction with \$519 million spent in the Midwest (U.S. Census). Also in 2017, \$624 billion of non-residential building expenditures were estimated for the nation, while the Midwest spent an estimated \$112.7 billion (U.S. Census-Construction Spending, 2018b).

Table 1. Annual Value¹ of Private Nonresidential Construction Put in Place by Region, 2017

Sector	Northeast	Midwest	South	West	United States
Commercial	12,224	16,529	35,978	19,907	84,637
Manufacturing	5,247	12,602	40,436	7,512	65,796
Office	15,745	7,914	19,703	15,201	58,564
Health Care	6,069	7,362	11,867	7,348	32,645
Lodging	5,834	4,085	10,397	7,669	27,985
Educational	7,614	3,843	5,967	2,839	20,263
Amusement and Recreation	2,279	2,946	4,738	3,795	13,757
Transportation	1,527	343	1,664	1,158	4,692
Religious	414	648	1,717	587	3,366
Total: nonresidential expenditures	57,033	56,386	132,851	66,160	312,430

¹ millions of dollars, nominal.

Source: U.S. Census-Construction, 2018B

Table 1 shows the annual value of non-residential construction by sector for each of the four regions in the U.S. Private nonresidential construction expenditures were greatest in the commercial, manufacturing, and office sectors in 2017. The percentage of nonresidential construction expenditures by sector in the Midwest was similar to those of the U.S.

Daum *et al.* (2019) forecast that approximately \$545.3 billion will be spent on nonresidential structures in 2019. Also in 2019, they project approximately \$67.9 billion to be spent in the East North Central region—Illinois, Indiana, Michigan, Ohio, and Wisconsin. While in the subsequent years of 2020, 2021, and 2022, they project that area to spend approximately \$70 billion, \$71.5 billion, and \$78.6 billion respectively. The West North Central region—Iowa, Kansas, Missouri, Minnesota, Nebraska, North Dakota, and South Dakota—is projected to spend approximately \$46.7 billion in 2019, \$45.6 in 2020, \$45.6 in 2021, and \$47.4 in 2022.

Table 2. Top 10 Building Permits: Total Units, Midwest MSAs²: 2017

MSA	Total units
Chicago-Naperville-Elgin, IL-IN-WI	22,132
Minneapolis-St. Paul-Bloomington, MN	15,100
Detroit-Warren-Dearborn, MI	10,089
Indianapolis-Carmel-Anderson, IN	9,079
Columbus, OH	8,892
St. Louis, MO-IL	7,295
Cincinnati, OH-KY-IN	6,465
Des Moines-West Des Moines, IA	6,367
Louisville-Jefferson County, KY-IN	5,785
Omaha-Council Bluffs, NE-IA	4,955
Total Midwest MSAs	155,171

²Eighty-one total MSAs are reported in the Midwest by U.S. Census-Construction. *Source: U.S. Census-Construction, Building Permits Survey, 2018d.*

To gather further data, metropolitan statistical areas (MSA) were analyzed in 2017 in regard to housing construction as well (Table 2). The MSAs of Chicago, Minneapolis, Detroit, and Indianapolis issued the most permits.

Table 3. Top 10 Building Permits Among Midwest MSAs3: Multi-Family, 5 or More Units (2017)

MSA	5-units or more
Chicago-Naperville-Elgin, IL-IN-WI	12,692
Minneapolis-St. Paul-Bloomington, MN	6,082
Columbus, OH	4,439
Detroit-Warren-Dearborn, MI	2,919
Madison, WI	2,838
Des Moines-West Des Moines, IA	2,623
Louisville-Jefferson County, KY-IN	2,265
Indianapolis-Carmel-Anderson, IN	2,127
Milwaukee-Waukesha-West Allis, WI	1,975
Cincinnati, OH-KY-IN	1,880
Total: Midwest MSAs	58,074

 $^{^3\}mbox{Eighty-one}$ total MSAs are reported in the Midwest by U.S. Census-Construction.

Source: U.S. Census-Construction, Building Permits Survey, 2018d.

Table 3 shows that the MSAs of Chicago, Minneapolis, Columbus, and Detroit recorded the most five- or greater multi-family unit permits in 2017.

Supporting data from Construction Monitor (2018) shows Minnesota had a total of 5,242 commercial building permits from January through November 2018. Residential and commercial permit information for Minnesota, Wisconsin, Iowa, Michigan, North Dakota, Illinois, and South Dakota for the same time period is located in Appendix D. During this time period, there were a total of 19,377 commercial building permits among all seven states (Construction Monitor 2018).

As shown in Table 4, in Minnesota, the Minneapolis MSA had the most housing permits issued by far with nearly 74 percent of the total permits. Also, 74 percent of single-family permits and 75 percent of multifamily permits issued were in the Minneapolis MSA.

Table 4. Building Permits: Minnesota MSAs, 2017

MSA	Total units	Single-Family units	2-4 Multi- Family units	≥ 5 Multi-Family units
Minneapolis-St. Paul-Bloomington	15,100	8,782	236	6,082
Fargo, ND-MN	1,891	1,065	0	826
Rochester	1,449	818	6	625
Duluth, MN-WI	665	508	4	153
Mankato-North Mankato	516	342	12	162
La Crosse-Onalaska, WI-MN	432	278	16	138
Grand Forks, ND-MN	417	227	4	186
Total: Minnesota	20,470	12,020	278	8,172

^{*}Seven total MSAs are reported in Minnesota by U.S. Census-Construction-Source: U.S. Census-Construction, Building Permits Survey, 2018D.

Over the past several years, the majority of buildings constructed have been apartments built for more affluent renters (Class A construction). However, according to Sebree and Chang (2019) "much of the rental demand will center on apartments that serve the traditional workforce: Class B and C properties." They also state that Minneapolis-St. Paul's "sustained apartment demand kept vacancy persistently tight, allowing steady rent growth. It is the only Midwest market to break into the top 20" [in the U.S.].

The quantity of MF completions is a net inventory gain of about 13 percent in the past eight years. Despite the completion of the "most apartments since the 1980s, vacancy is forecast to remain at just 4.6 percent in 2019. With rising labor and materials costs, tighter lending, and a shortage of skilled construction labor available, the pace of construction should begin to ebb in 2020" (Sebree and Chang, 2019).

Building Trends

Two significant trends in residential and commercial construction are the movement toward green, or sustainable, construction and the rise in modular construction. Both have significant implications for the CLT industry, as CLT construction is both sustainable and modular by nature. This section highlights some recent and projected trends these two areas.

As the demand for more sustainable building options increases, green construction has become increasingly profitable and desirable within the global construction market (Statista, n.d.). For example, buildings certified by the U.S. Green Building Council's Leadership in Energy and Environmental Design (LEED) have lower energy and water consumption, save taxpayers money, and reduce carbon emissions, making them an environmentally favorable building system, according to Statisa (n.d.). The statistics and research company also reports that the green building market is anticipated to be among the fastest growing industries worldwide. The number of LEED-certified projects in the United States rose from 296 certifications in 2006 up to over 65,000 in 2017.

In 2017, the U.S. Green Building Council cited that the top 10 states for LEED completed 1,399 projects (over half of the 2,647 projects completed in the country) over the course of the year. According to that same list, Minnesota ranked sixth out of the entire country, with 47 LEED certified projects completed in 2017 (U.S. Green Building Council 2018).

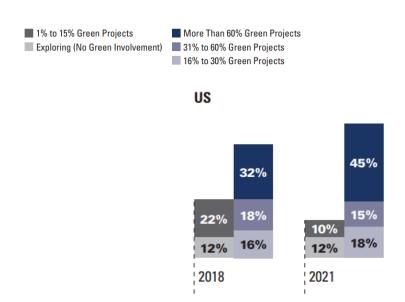
Minnesota had 1.36 gross square feet of LEED-certified space per capita in 2018, with the Wells Fargo Center, the third tallest building in Minneapolis, coming in with 1.34 million square feet of LEED space.

Green building systems like LEED and the ICC 700 National Green Building Standard will likely continue to drive demand for green building projects. (statista n.d.)

Minnesota also utilizes the Buildings, Benchmarks, & Beyond (B3) sustainable building guidelines. The Minnesota Department of Commerce, the University of Minnesota's Center for Sustainable Building Research and outside contractors and consultants developed and supports B3. The guidelines are similar to LEED but are tailored to meet the specific building construction needs for Minnesota. (Minnesota Department of Administration, n.d.)

Approximately 2,000 green building industry individuals, which include architects, engineers, contractors, owners, specialists/consultants and investors, from 86 countries participated in a study on the level of their green building activity. Figure 5 below shows responses of U.S. participants (World Green Building Council 2018).

Figure 5. Levels of Green Building Activity for Respondents in North America (2018 and 2021 Expected)



DODGE DATA & ANALYTICS, 2018

According to Dodge Data and Analytics (2018) 32% of respondents indicated that more than 60% of their building activities are green projects. This amount is estimated to reach 45% in 2021, which is an increase of 13%.

Studies show that the modular construction market will grow in the coming years, according to Thomas Industry Update (2018), a data, platform, and technology company for the industrial market. In 2017, Markets and Markets, a leading business research firm, showed a \$106.15 billion value in the modular construction market. The firm anticipated that this value will reach \$157.19 billion by 2023, with a compound annual growth rate of 6.9% (Modular Construction Market Trends and Predictions for 2019 2018).

Although most prefabricated buildings are constructed with wood using conventional light framing, mass timber products using CLT and glulam are increasingly specified in commercial and multi-family projects. (Think Wood 2018)

Building Codes for Mass Timber

As of January 2019, tall wood buildings will be included as part of the 2021 International Building Code (IBC), according to WoodWorks (2019). Based on approved proposals from the International Code Council (ICC), the 2021 code will include the new construction types of Type IV-A, IV-B, and IV-C, thereby accepting the use of mass timber or noncombustible elements. WoodWorks reports that the three construction types are derived from the previous Heavy Timber construction type (renamed Type IV-HT) but with additional fire-resistance ratings and levels of required non-combustible protection. Businesses and residential projects will be able to be constructed up to 18 stories according to the new code Type IV-A.

The 2015 IBC streamlined the acceptance of CLT buildings by recognizing CLT products manufactured to the ANSI/APA PRG 320: Standard for Performance-Rated Cross-laminated timber. Under the 2015 IBC, CLT at the required size is specifically for prescribed use in Type IV buildings. However, CLT can be used in all types of combustible construction—i.e., wherever combustible framing or heavy timber materials are allowed.

The National Design Specification® (NDS®) for Wood Construction applies to CLT as it does for all wood products. Throughout the IBC, these design specifications are cited as the standard for all wood design, according to WoodWorks (2019).

An adoption date of the 2018 edition of the International Model Building Codes (I-codes) in Minnesota has not been cited, though the review phase of the codes is nearing completion (American Wood Council 2018). Minnesota's state building codes include the adoption of the 2012 International Building, Existing Building, Fire, Fuel Gas, Mechanical, and Residential Code. Under the 2012 and 2015 IBC, opportunities exist for constructing wood-frame structures up to six stories and 85 feet tall (measured from grade plane) (WoodWorks 2019). The total allowable height depends on two factors: the type of construction being done and its intended occupancy type.

Benefits and Challenges of Mass Timber

To summarize, Table 5 contains some of the most relevant benefits and challenges associated with mass timber (or CLT) construction.

Benefits	Challenges							
•	Can replace structural concrete, masonry or steel	Non-traditional form of construction new to North America						
•	Construction time is very fast Prefabrication of CLT can lead to higher tolerances	 Few designers are familiar with this type of construction which can lead to a learning curve Inflexibility between design and fabrication of structures 						
•	Foundation sizes can be reduced because panels used are light weight	 Transformation of structure can be more difficult than traditional construction. 						
•	Less concrete is used which can reduce overall energy used Less noise and dusts compared to traditional construction	 Requires external cladding and usually, added insulation Utility services need careful consideration ahead of fabrication. If exposed surface finish is used, then routing is required because services are difficult to relocate once the panel is installed 						
•	Ability to retain heat Compared to traditional construction, heat will enter the construction at a slower speed Airtightness is easily achievable Requires only limited site installation skills 'Dry' construction prevents moisture from being admitted into the building	 CLT floor slab can be around twice as expensive than a pre-stressed concrete hollow floor slab The tendency of wood to absorb moisture from the atmosphere is expected to pose a challenge to the industry growth Less willingness to use performance-based fire protection engineering 	on					
•	Flexibility in customizations – for example, windows and doors Loads such as wall cabinets can be located without the restrictions associated with other forms of construction	 Many of the existing building codes are tailored to traditional building systems such as concrete and steel for large multistory buildings, and light wood framing (dimension lumber, etc.) for smaller buildings Urban/rural divide on understandings and perceptions about forest management 	or					
•	Prefabrication reduces the quantity of waste associated with onsite fabrication							
•	Stores carbon and avoids the releasing of greenhouse gas emissions Timber is renewable and stores carbon							

SOURCES: THE BECK GROUP (2018), GRAND VIEW RESEARCH (2017), GREENSPEC (2019), LUPIEN (2018), WOODWORKS (N.D.)

Conclusions

- Mass timber is a growing trend with increasing demand both in the U.S. and globally.
- Companies currently in the mass timber market are growing and there is increasing production of mass timber construction across the U.S.
- Adhesively bonded—as opposed to mechanically fastened—cross laminated timber currently
 dominates the CLT market and is projected to continue to make up a large portion of the market
 share; most likely due to its high durability and performance rating.
- CLT is commonly used in large, multi-family (5+) unit housing; a construction type that shows
 increased growth in the past 10 years based on the number of permits issued in the U.S. The
 Minneapolis-St. Paul-Bloomington MSA saw the second highest issuance of these permits out of
 eighty-one total MSAs reported in the Midwest.
- Among nonresidential construction spending in 2017, the commercial, manufacturing, and office sectors rank the highest across the U.S. This trend is consistent in the Midwest as well.
- Trends such as sustainable building practices and modular construction systems have experienced growing popularity in the U.S., positioning CLT well due to both its sustainable and modular nature.
- Environmentally conscious behaviors and attitudes are projected to increase, with Minnesota already a top ten contender in LEED certified projects, this makes the need for a more sustainable construction, such as mass timber, advantageous.
- Challenges that face the effective implementation of mass timber include: low awareness or understanding of the construction method, restrictive building codes and permits, and learning curves among engineers, architects, and developers.
- Benefits such as ease of construction, durability, low cost, and thermal regulation make mass timber a favorable building system.

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Chapter II. Lumber Availability

For this portion of the study, the BBER developed and distributed a survey to gather data from current lumber producers and distributors located within the supply area. This information was used to determine the potential lumber supply available in the Great Lakes states (primarily Minnesota, Wisconsin, and Michigan) for a cross-laminated timber (CLT) manufacturer and to identify potential interest among sawmills and distributors in being part of a future supply chain. Specifically, the survey evaluated local producers' ability to provide the necessary species, dimensions, and grades of CLT-suitable lumber to produce CLT and wholesalers' current distribution levels of suitable lumber. Follow-up interviews conducted by BBER staff and undergraduate student researchers, as needed, supplemented the survey data.

Sawmills

A survey was developed for regional sawmills that included questions regarding each mill's familiarity with CLT; the amount of lumber the mill produced in various species, dimensions, and grades; and the mill's ability to modify production to meet an increased demand for specific species, grades, and dimensions.

Sawmills in a roughly 250-mile radius from Duluth, Minnesota, were surveyed. These included three Biewer Lumber mills (Prentice, Wisconsin; McBain and Lake City, Michigan); Cass Forest Products in Cass Lake, Minnesota; Hedstrom Lumber in Grand Marais, Minnesota; two PotlatchDeltic mills (Gwinn, Michigan, and Bemidji, Minnesota); Pukall Lumber in Arbor Vitae, Wisconsin; and two Rajala Companies mills (Bigfork and Deer River, Minnesota). Eight of these ten mills responded to the survey. In addition, two Canadian mills (Eacom Timber Corporation in Ear Falls, Ontario, and Resolute Forest Products in Thunder Bay, Ontario) were contacted to participate but did not respond to the survey. Throughout this report, the eight mills that provided data will be collectively referred to as "regional" mills or producers, and the lumber they produced will be considered to be produced "in the Great Lakes region."

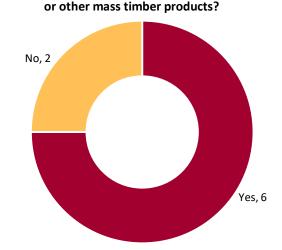
It should be noted that two of the surveyed sawmills are part of a larger corporate entity with additional mills located throughout the country. In addition to its regional mills, PotlatchDeltic has three sawmills in Arkansas and one in Idaho. Similarly, Biewer Lumber has a Figure 6. Are you familiar with CLT (cross-laminated timber)

third sawmill in Mississippi.

Familiarity with CLT

All of the mills surveyed were asked about their familiarity with CLT. Six respondents indicated a familiarity with the product, as shown in Figure 6.

The mills were also asked whether they produced lumber that was visually or machine stress graded. Typically, visual grading is performed by a qualified grader who evaluates each piece of lumber on its strength-reducing (knots, slope of grain, and holes) and serviceability (wane, warp) characteristics (Southern Pine Inspection Bureau 2017). The highest visual grade that can be assigned to dimension lumber is "select structural," followed by No. 1, No.



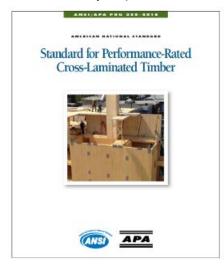
SOURCE: BBER SAWMILL SURVEY

2, No. 3, and then finally five lower grades suitable for studs, framing, and other construction purposes (Southern Pine Inspection Bureau 2014). Machine stress rated (MSR) lumber, on the other hand, is evaluated by stress rating equipment, and grades are based on bending strength, stiffness class, and visual requirements (Southern Pine Inspection Bureau 2014). MSR grades and design values are in pounds per square inch with the highest values (2850 f-2.3E) indicating a stronger board and the lowest (900 f-1.0E) indicating weaker lumber (Machine Stress Rated Lumber Producers Council 2015). In response to the question regarding visually or machine stress graded lumber, all of the mills that responded indicated that they process visually graded lumber only.

CLT Lumber Specifications

Lumber used to manufacture CLT must meet specie, dimension, grade, and manufacturing specifications described in the Standard for Performance-Rated Cross-Laminated Timber (ANSI/APA PRG 320-2018) shown in Figure 7 and the Standard Specification for Structural Glued Laminated Timber of Softwood

Figure 7. Standard for Performance-Rated Cross-Laminated Timber (ANSI/APA PRG 320-2018)



SOURCE: ANSI/APA PRG 320-2018

Species (ANSI/APA 117-2015). The predominant species or species combinations used are Douglas fir (DF), spruce-pine-fir (SPF and SPFs), and southern yellow pine (SYP). The minimum specific gravity is 0.35.

SPF is produced in both the U.S. and Canada. The distinction between the two sources of origin can be identified from the grade stamp on the lumber itself. Lumber stamped with SPF is produced from logs

Figure 8. Characteristics of CLT-Suitable Lumber

- Any softwood lumber species with specific gravity of 0.35 or higher (i.e. spruce-pine-fir, southern yellow pine, or Douglas fir-larch)
- Visually graded lumber with grades of "select structural," No. 1, No. 2, or No. 3
- Machine stress rated lumber of 1200f-1.2E MSR or higher
- Preference for wider lumber (2 x 6 or wider)
- Preference for longer lumber (8 feet or longer)

SOURCE: ANSI/APA PRG 320-2018, STANDARD PS 20; KARACABEYLI 2013; BBER

harvested in Canada. Conversely, lumber produced in the U.S. is stamped SPFs ("s" indicating that the lumber comes from south of the Canadian border). SPF includes western U.S. species, such as lodgepole pine, Engelmann spruce, and Sitka spruce and eastern U.S. species, such as red spruce, white spruce, black spruce, Norway spruce, red pine, jack pine, and balsam fir. For more information on SPF, please refer to http://sprucepinefir.us.

The SYP species group includes shortleaf pine, slash pine, longleaf pine, and loblolly pine.

Most CLT manufacturers use 2 x 6 and 2 x 8 dimension lumber for their layups due to availability, cost, and efficient

manufacturing processes (National Institute of Standards and Technology 2015). Based on ANSI/APA PRG 320-2018, dimension lumber used in the manufacture of CLT panels must be at least No. 2 (visual grade) or 1200f-1.2E MSR (machine grade) for the parallel layers, and No. 3 (visual grade) for the perpendicular layers. Figure 8 provides an overview of CLT-suitable lumber.

There are four species that meet those specifications and grow in the Great Lakes Region. These include red pine, spruce, jack pine, and balsam fir.

Current Lumber Production

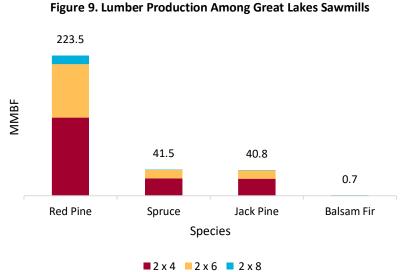
The survey asked sawmills to estimate the quantity of red pine, spruce, jack pine, and balsam fir produced in the most recent year. 3 Mills were specifically asked to break out their answers by grade (No. 3, No. 2, and No. 1 or better 4) and width (2 x 4, 2 x 6, and 2 x 8 lumber).

The survey found that Great Lakes sawmills produced roughly 300 million board feet (MMBF) of lumber that was 2×4 or larger with grades of No. 3 or better (Figure 9). Of this production, roughly 180 MMBF was 2×4 , and 127 MMBF was 2×6 or 2×8 .

Nearly three-quarters of that total volume (223.5 MMBF) was red pine. The remaining quarter was split

about equally between spruce and jack pine (41.5 and 40.8 MMBF, respectively). Only a very small volume of balsam fir was produced in the region (0.7 MMBF). For all species, approximately 60% of the volume produced was 2 x 4, about 35% in 2 x 6, and roughly 5% in 2 x 8.

More details on the volumes produced in each category can be found in Table 6 on the following page. In addition to the board species and dimensions shown in Figure 9, the table shows the volumes produced in each grade. Visually graded No. 2 lumber is the most commonly produced in most cases, with the exception of jack pine 2 x 4s, where slightly more No. 1 grade material is produced than No. 2.



Source: BBER Sawmill Survey

³ The sawmill survey was distributed in August 2018 and asked mills to report the amount of lumber produced "in the most recent year," without stipulating a specific time period. It can be assumed that the numbers given might represent calendar year 2017 or a one-year time period in 2017-18.

⁴ In the survey, mills were asked to report lumber grades as No. 3, No, 2, or No. 1 or better. The category No. 1 or better includes No. 1 grade and "select structural" grade lumber. For the remainder of this report, that category will be referred to simply as "No. 1."

Table 6. For the most recent year, please estimate your facility's total lumber production (MMBF) for the following lumber species and grades

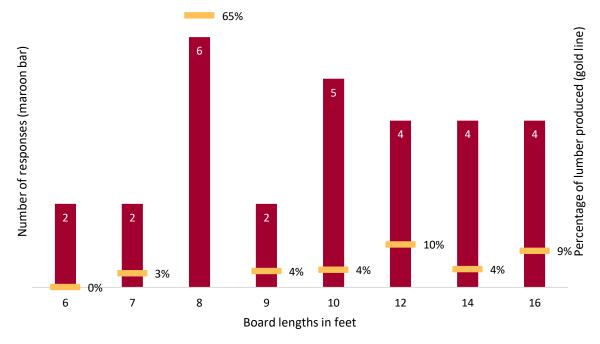
	(with the first constraints farmed species and brades									
	2 x 4			2 x 6		2 x 8			_	
	#1 or	#2	#3	#1 or	#2	#3	#1 or	#2	#3	Total
	better			better			better			
Red Pine	28.5	78.8	17.4	15.6	56.5	13.2	-	12.2	1.3	223.5
Jack Pine	10.1	11.7	5.3	4.3	7.0	2.2	-	0.2	0.0	40.8
Spruce	13.3	10.3	4.1	4.6	6.7	2.3	-	0.2	0.0	41.5
Balsam Fir	-	0.3	0.1	-	0.3	0.1	-	0.0	0.0	0.7
Total	51.9	101.1	26.8	24.5	70.5	17.7	-	12.7	1.3	306.5

^{*}Totals may not sum due to rounding

SOURCE: BBER SAWMILL SURVEY

Regional sawmills were also asked to provide an estimate of length for the lumber species and grades they reported (e.g. "90% of our 2 x 6 lumber is 8 feet, and 10% is 10 feet"). Figure 10 shows, for each length, the number of mills that reported producing the length shown (maroon bars) and the percentage of the total lumber produced regionally of each length (gold lines). For example, six of the eight mills surveyed produce 8-foot lumber, but because of the large volume produced by those six mills, nearly two-thirds of all lumber produced in the region is 8 feet in length. On the other hand, five of the eight mills surveyed indicated that they produce 10-foot lumber, but only 4% of the total volume of lumber produced locally is cut at that length.

Figure 10. Number of Mills and Percentage of Lumber Produced by Board Length

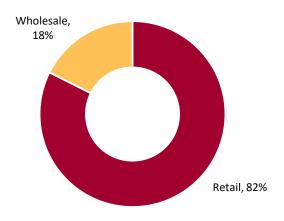


SOURCE: BBER SAWMILL SURVEY

Sawmills were asked to report the amount of lumber produced at their facility that is sold directly to retail or industrial accounts (e.g. Menard's, Home Depot) versus the amount sold to wholesalers. While most respondents reported selling some portion of their lumber to wholesalers – seven of the eight mills reported selling at least 5% – the largest mills tended to sell a greater share to retail accounts. Therefore, of the total volume of lumber suitable for CLT produced within the region, more than 80% is being sold to consumers through retailers (see Figure 11).

The amount of lumber currently being produced by sawmills is not necessarily reflective of the potential availability of lumber in the region. It can be assumed that regional mills might have the ability to produce longer, wider lumber if there was a demand for such a product and the price was competitive.

Figure 11. What percentage of lumber sales sold by your facility fall into the following categories?



SOURCE: BBER SAWMILL SURVEY

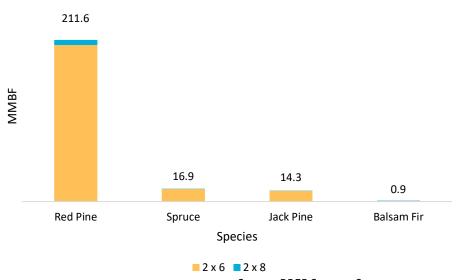
Potential Production

In order to gauge the ability of regional mills to produce CLT-suitable lumber, the survey followed up by asking, "Assuming a profitable market is available and all lumber was sold, what is the maximum production capabilities at your sawmill?" Mills were given the option of 2 x 6 or 2 x 8 lumber only to encourage them to consider their

potential ability for those dimensions, assuming there was a preference by CLT producers for wider lumber.

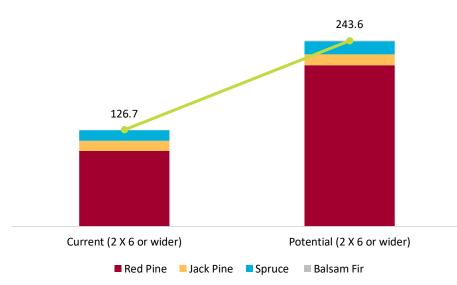
Figure 12 shows the mills' responses to the question. As shown in the figure, if there was a profitable market for softwood lumber in wider dimensions, mills could potentially produce more than 243 MMBF annually, with 211 MMBF of that predicted for red pine 2 x 6 lumber.

Figure 12. Assuming a profitable market is available and all lumber was sold, what is the maximum production capabilities at your sawmill? (2 x 6 or wider)



SOURCE: BBER SAWMILL SURVEY

Figure 13. Potential Increase in Production Capabilities (2 x 6 or wider)



SOURCE: BBER SAWMILL SURVEY

Figure 13 shows more detail regarding the potential increase in ability. The figure shows the mills' current reported production levels of 2 x 6 (or wider) lumber (126.7 MMBF) compared with their reported potential ability (243.6 MMBF). ⁵ Overall, mills reported a potential ability for 2 x 6 or wider lumber that is nearly double the

amount they are currently producing (a 92% increase). While there were small potential increases reported in jack pine, spruce, and balsam fir, the main opportunity for growth is predicted in red pine. Combined, the eight surveyed mills estimated that they could increase production of 2×6 red pine lumber by 113 MMBF annually, if there was a profitable demand for that product.

It should be noted that this increase in production refers only to CLT-suitable lumber (softwood lumber in 2 x 6 or wider lumber of the appropriate grades). Some of the reported increase might reflect a movement from one dimension to another (i.e. producing less 2 x 4 lumber and more 2 x 6 lumber). Therefore, it should not be suggested that mills are likely (or able) to double their total production in response to an increase in demand for CLT-suitable lumber. Rather, the findings suggest that regional mills have the capabilities to provide a large volume of lumber that is suitable for CLT manufacturing if the demand and price were right.

More details on the volumes produced in each category can be found in Table 7 on the following page. In addition to the board species and dimensions, the table also shows the volumes produced in each grade (No. 3, No. 2, and No. 1). Also noted is that mills would be unlikely to produce a significant volume of 2 x 8 lumber, even if there was a demand for such a product. Instead, the largest potential volumes would likely be 2 x 6 lumber in grades No. 1 and No. 2, mostly in red pine, but with some small volumes in jack pine and spruce.

⁵ Mills' reported production volume for 2 x 6 and 2 x 8 lumber (current and potential) were summed to create the category "2 x 6 or wider"

Table 7. Assuming a profitable market is available and all lumber was sold, what is the maximum production capabilities (MMBF) at your sawmill? (2 X 6 or wider)

	capabilities (initially at your saturally (2 % of initially								
Width	2 x 6				2 x 8				
Grade	No. 1	No. 2	No. 3	No. 1	No. 2	No. 3	Total		
Red Pine	25.7	158.8	20.4	0.8	4.5	1.4	211.6		
Jack Pine	4.2	6.7	3.1	0.1	0.1	0.1	14.3		
Spruce	5.5	7.8	3.2	0.1	0.2	0.1	16.9		
Balsam Fir	0.1	0.4	0.3	-	0.0	0.0	0.9		
Total	35.4	173.7	27.0	1.0	4.9	1.6	243.6		

^{*}Total may not sum due to rounding

SOURCE: BBER SAWMILL SURVEY

Sawmills were asked about their facility's value-added manufacturing abilities. Three of the respondents indicated that their mill had re-manufacturing (molding, finger jointing, etc.) capabilities, and one indicated it produces semi-finished products or finished products (beams, millwork, pallets, etc.). These capabilities can be valuable if a mill is considering expanding into CLT production.

Finally, survey respondents were asked, "Would you or someone from your company be interested in receiving further communication and information about the project? (e.g. report results, CLT information)" All respondents indicated that they would be interested in further information, indicating an interest in learning more about the possibility of CLT manufacturing in the region.

Canadian Mills

According to an IBIS market report on Canadian sawmills, 90% of U.S. homes are built with softwood, but, at current mill capacities, U.S. is only able to meet 70% of its own softwood lumber needs. Nearly all of its remaining softwood lumber needs are fulfilled by Canadian exports. (Leach November 2017)

Two Canadian mills (Eacom Timber Corporation in Ear Falls, Ontario, and Resolute Forest Products in Thunder Bay, Ontario) were contacted to provide production level estimates but did not respond to the survey. One of those, Resolute Forest Products (RFP) is a major producer, representing roughly 5% of the Canadian softwood lumber market (Leach November 2017). Primarily a pulp and paper mill, RFP also operates 16 sawmills in Canada that produce construction-grade softwood lumber and has been growing its wood products segment in recent years.

Because Canadian lumber represents such a large portion of the softwood lumber used in the U.S., the BBER gathered data from secondary sources to quantify the volume of lumber coming from Canadian mills. Based on the Government of Canada's trade data for 2017, the BBER estimates that more than 1,200 MMBF of lumber was exported from Canada to Minnesota or Wisconsin, roughly 20% of that which (213 MMBF) came from Ontario (Government of Canada 2018). In fact, Minnesota was Ontario's second largest export market. While not all of the lumber exported from Canada is suitable for CLT production, these statistics highlight the large quantity of softwood lumber that is currently being distributed to Minnesota and/or Wisconsin from Canadian mills. For example, if even a quarter of the lumber coming from Canada to Minnesota and Wisconsin was suitable for CLT, it would mean 300 MMBF of additional supply, roughly equal to what is being produced by regional mills is available in the Lake States

⁶ http://www.ic.gc.ca/eic/site/tdo-dcd.nsf/eng/Home?OpenDocument#tag

Distributors

A parallel survey was developed for regional wholesalers, with questions similar to those asked of regional sawmills. Like the sawmill survey, questions asked of wholesalers included their familiarity with cross-laminated timber (CLT) and the amount of lumber the wholesaler distributed in various species, grades, and widths. In addition, wholesalers were asked for their feedback on ideal locations throughout the Midwest to source lumber suitable for CLT production.

The process for collecting data from regional wholesalers was as follows: First, the research team identified all lumber wholesalers in a roughly 200-mile radius from Duluth, Minnesota (Infogroup, Inc. 2019). Identified wholesalers included BlueLinx, Manion's Wholesale, Viking Forest Products, Weekes Forest Products, Grove Wholesale Lumber, Midwest Lumber Inc., and Pine Point Wood Products. Based on feedback from the regional sawmills and other forestry experts, the first four companies were identified as being good candidates for the survey, while it was suggested that the remaining three companies did not likely supply a product suitable for CLT production. Through phone calls and email communication, the research team identified the appropriate person within each organization to complete the survey and sent an electronic copy to each individual via email. In addition to data collected using the survey instrument, some follow-questions were asked of each company representative via email and phone conversations.

In total, data was requested on twelve wholesale facilities: six BlueLinx facilities (Maple Grove, Minneapolis, and Aitkin, Minnesota; and Madison, Schofield and Sparta, Wisconsin), two Manion's Wholesale facilities (Saint Cloud, Minnesota, and Superior, Wisconsin), three Weekes Forest Products facilities (Waukesha and Green Bay, Wisconsin, and Saint Paul, Minnesota), and Viking Forest Products in Eden Praire, Minnesota. We received information on 11 of the 12 locations from four company representatives. Data for the one facility that did not respond was estimated by using information collected on the company from the Reference USA database along with some estimates provided by a representative at the company's sister facility. Throughout this report, the twelve wholesale facilities are collectively referred to as "regional" wholesalers and the lumber they distribute is considered to be distributed "in the Great Lakes region."

It should be noted that two of the surveyed distributors are part of a larger corporate entity with additional locations throughout the country. Headquartered in Atlanta, Georgia, BlueLinx has a vast network of distribution centers located throughout the U.S. Similarly, Weekes Forest Products has eight distribution centers throughout the U.S.

Current Lumber Distribution

As with the sawmill survey, wholesalers were first asked to indicate their familiarity with CLT production. Three of the four respondents indicated that they were familiar with the product, and one responded that they were not. Wholesalers were also asked whether their company distributed visually graded material, MSR material, or both. All four respondents indicated that their companies distributed both types of lumber.

Wholesalers were then asked to estimate the quantity of softwood dimension lumber that they distributed that meets the specifications required for CLT production. Specifically, wholesalers were asked about their volumes of spruce-pine-fir, southern yellow pine, and Douglas fir-larch and how much of each was distributed in grades No. 3, No. 2, and No. 1 (or at the appropriate MSR grades). Finally, since CLT producers prefer wider lumber, the survey asked wholesalers to specify the amount of 2 x 6 and 2 x 8 lumber only.

Results of the survey found that Great Lakes wholesalers distributed roughly 100 million board feet of lumber suitable for CLT or mass timber (see Figure 14). Roughly 60% of that total volume (58.4 MMBF) was spruce-pine-fir, and 37% was southern yellow pine. Only a very small volume of Douglas fir-larch was distributed in

the region (4.8 MMBF). Of the spruce-pine-fir distributed regionally, the vast majority was in the form of 2 x 6 lumber, whereas a larger percentage of southern yellow pine was in the form of 2 x 8 lumber.

Tables 8 and 9 show more details regarding the volumes distributed in each category. In addition to the board species and dimensions, the

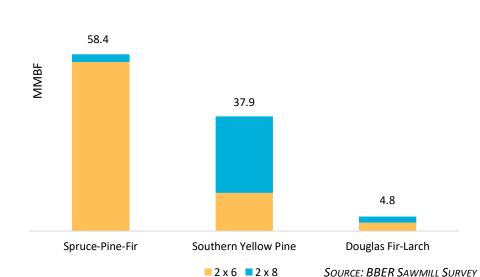


Figure 14. Lumber Distribution Among Great Lakes Wholesalers

tables also show the volumes distributed by grade. Visually graded lumber is shown in Table 8, and MSR lumber is shown in Table 9. According to the wholesalers' responses, it was estimated that roughly 70% of the CLT-appropriate lumber distributed regionally was visually graded, while about 30% was MSR. Of the visually graded lumber, the majority being distributed was 2 x 6 spruce-pine-fir grade No. 2. The most common MSR lumber being distributed in the region was 2 x 6 spruce-pine-fir grade 1,650f. A significant volume of 2 x 8 southern yellow pine grade No. 1 was also distributed regionally.

Table 8. For the most recent year, please estimate your facility's distribution quantity of visually graded lumber (MMBF) for the following species and grades

Width		2 x 6					
Grade	No. 1	No. 2	No. 3	No. 1	No. 2	No. 3	Total
Douglas Fir-Larch	0.1	1.0	-	0.1	1.9	-	3.1
Southern Yellow Pine	1.1	4.2	-	11.1	7.1	-	23.5
Spruce-Pine-Fir	-	38.3	1.1	0.1	2.5	-	42.0
Total	1.2	43.5	1.1	11.3	11.5	-	68.6

^{*}Total may not sum due to rounding

Source: BBER Distributor Survey

⁷ One respondent did not provide specific volumes for its MSR lumber but rather gave a total amount along with some examples of common species, grades, and widths. This information was used, along with information from the MSR Lumber Producers Council and other respondents' totals, to generate an estimate for that distributor.

Table 9. For the most recent year, please estimate your facility's distribution quantity of machine stress rated lumber (MMBF) for the following species and grades

	idiliber (wilder) for the following species and grades											
Width			2 x 6					2 x 8				
Grade (pounds per square inch, psi)	1,650	1,800	2,400	2,700	2,850	1,650	1,800	2,400	2,700	2,850	Total	
Douglas Fir-Larch	-	1.6	0.1	-	-	-	-	-	-	-	1.7	
Southern Yellow Pine	-	-	0.2	7.2	-	-	-	4.0	-	3.0	14.4	
Spruce-Pine-Fir	14.9	-	-	0.5	1.0	-	-	-	-	-	16.4	
Total	14.9	1.6	0.3	7.7	1.0	-	-	4.0	-	3.0	32.5	

^{*}Total may not sum due to rounding

Source: BBER Distributor Survey

In the case of spruce-pine-fir, there is a possibility that some of the regional wholesalers may be distributing lumber that was produced locally. While a large majority of the regional sawmills reported selling their product to retailers, the survey results estimated that roughly 18% of the total volume of lumber sold locally was sold to wholesalers. To account for the potential duplication, wholesalers were asked to estimate the percentage of spruce-pine-fir they currently distribute that comes from outside of Minnesota or Wisconsin. On average, the wholesalers reported that 96% of the spruce-pine-fir they distributed comes from outside of the region (mostly Canadian mills and a small portion from the Western U.S.), which suggests that the lumber being reported by sawmills and distributors is not being double-counted.

Potential Distribution

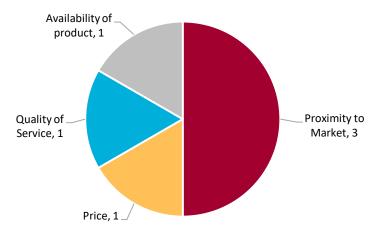
As a follow-up, wholesalers were asked, hypothetically, about their ability to provide a larger volume of lumber if requested. Each representative was asked about the ability to supply roughly double what was reported in the facility's survey response. All but one representative said they would have the ability to do so. Based on the representatives' responses, it appears that regional wholesalers could supply more than 200 MMBF in lumber if there was a demand for the product. And two of the representatives stated they could supply "any reasonable demand," suggesting that the actual amount available is likely even higher than 200 MMBF.

There also appears to be a potentially large volume of lumber that is being sold to regional secondary wood products manufacturers directly from large Canadian and western U.S. mills. The BBER research team asked the wholesale representatives whether most large customers (e.g. truss manufacturers, window and door manufacturers) buy primarily wholesale materials or directly from sawmills. The representatives stated that while some large manufacturers may buy wholesale due to lack of rail access and others buy a combination of mill-direct and wholesale lumber, the majority of large customers who buy MSR lumber buy directly from sawmills, most commonly Canadian mills.

Finally, wholesalers were asked, "In mass timber manufacturing, longer, wider lumber of higher grade is preferred. Given that, which city do you think would be the most competitive to source this lumber to the Midwest?" Choices given included Minneapolis, Chicago, Detroit, and Kansas City, as well as an option to name some other Midwest city. All of the distributors who responded to the question (n=3) selected

Minneapolis. Wholesalers were then asked, "What are the main reasons this city would be a good location to source this material?" They were allowed to select multiple options, including price, proximity to supplier, proximity to market, availability of product, quality of product, and quality of service. The reasons most commonly selected included proximity to market (3) respondents), price (n=1), quality of service (n=1), and availability of product (n=1), as shown in Figure 15.

Figure 15. What are the main reasons this city would be a good location to source this material?



SOURCE: BBER SAWMILL SURVEY

It should be noted that respondents were primarily located in Minnesota and/or Wisconsin, so their response to this question would likely be biased toward cities in Minnesota or Wisconsin, Minneapolis being the only such city included in the survey options. However, according to the Bureau of Transportation Statistics, ⁸ Minnesota has a well-developed transportation infrastructure, with nine major airports, four major water ports, 4,450 miles of freight railroad, and 260 miles of waterway. In addition, the state moved nearly \$500 billion in freight in 2013, up 8% from 2007 (U.S. Department of Transportation 2016). This suggests that, while the respondents may have a preference for Minneapolis in part due to their familiarity with the area, it is, in fact, a competitive location because of its existing infrastructure.

Conclusions

- Surveys identified 300 MMBF of lumber currently being produced by sawmills within a roughly 250-mile radius of Duluth-Superior and another 100 MMBF being distributed by regional wholesalers.
- Roughly 125 MMBF of the SPFs lumber currently being produced by regional sawmills was suitable for CLT production (No. 3 or better, 2 x 6 or wider)
- A large portion of the SPFs lumber being produced by regional sawmills was in 2 x 4 dimensions, but mills report the capability to produce nearly 250 MMBF in 2 x 6 or wider lumber in grades No. 3 or better if there was a demand for such a product.
- When asked about a hypothetical volume of lumber roughly double their current distribution levels, regional wholesalers stated they would have no difficulties sourcing that amount if there was demand.
- In 2017, Minnesota and Wisconsin imported a combined 1,200 MMBF of lumber from Canadian producers. Not all of that was suitable for CLT production, but the large overall volume suggests that there is likely more CLT-suitable material available across the border.

⁸ https://www.bts.gov/content/state-transportation-numbers

- Red pine was the dominant softwood species being produced by regional sawmills, and spruce-pinefir was the most common species group being distributed in the region.
- Wholesalers overwhelmingly considered Minneapolis to be the most competitive Midwest city to source lumber suitable for CLT production, due mostly to its proximity to market.

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Chapter III. Economic Impact Analysis

This chapter estimates the potential economic impacts from a new cross-laminated timber (CLT) manufacturing firm or group of firms on the state of Minnesota and the seven-county Arrowhead region. The chapter describes the inputs used in modeling and provides results of three scenarios, representing a range of potential economic impacts.

The BBER used the IMPLAN software version 3.1 to estimate economic impacts. All scenarios were modeled using the most recent data available, which was for the year 2017. All results are shown in 2019 dollars.

Study Area

Two study areas were used for the economic impact analysis: the state of Minnesota and the seven-county Arrowhead region (Figure 16). The region consists of the following Minnesota counties: Aitkin, Carlton, Cook, Itasca, Koochiching, Lake, and St. Louis. Both study areas were included so that policy makers might consider the potential impacts on either area, regardless of whether a firm is located in the Arrowhead region or elsewhere in the state.

The figures on the following pages provide insight on the regional economies of the two study areas as context for the results of the report.

Figure 16. State of Minnesota and Arrowhead Region



SOURCE: WIKIPEDIA, BBER

⁹ For more information on data sources and assumptions relevant to economic impact modeling and the IMPLAN database, see Appendix E.

Figure 17. Top 15 Industries by Contribution to GDP (in Millions of Dollars), Minnesota, 2017



Source: IMPLAN

Figure 18. Top 15 Industries by Contribution to GDP (in Millions of Dollars), Arrowhead Region, 2017



Source: IMPLAN

Figures 17 and 18 show the top 15 industries ¹⁰ for each of the two study areas, as measured by contribution to GDP or value added. The 15 industries with the largest contributions to Minnesota's GDP are shown in Figure 17. These include wholesale trade, owner-occupied dwellings, ¹¹ real estate, and management of companies and enterprises. The Arrowhead region's top industries can be seen in Figure 18. Iron ore mining, hospitals, and paper mills were the three largest contributors to the region's GDP in 2017.

It is interesting to note the similarities and differences between the two regions. In both areas, wholesale trade, real estate, hospitals, and insurance carriers are among the top industries. By contrast, Minnesota's economy depends more heavily on management of companies and enterprises, scientific research and development services, and petroleum refineries, while the Arrowhead region's economy depends more heavily on iron ore mining, paper mills, and electric power generation.

Later, in Results, the report will show which industries would be most impacted by a potential CLT manufacturing firm and will compare those industries with the top 15 shown in Figures 17 and 18.

Inputs

The BBER modeled three scenarios representing various sizes of CLT manufacturing firms. Inputs required for modeling included estimates of employment, wages, local purchases, and annual revenue. Data were collected from current CLT manufacturers, relevant literature, and the Reference USA database. When data was not available from secondary sources, the research team relied on IMPLAN data as inputs.

In 2018, there were six mass timber factories in production in the United States: International Beams (AL), Sterling Lumber (IL), Smartlam (MT), D.R. Johnson (OR), Freres (OR), and Euclid (UT). ¹² These firms range in size from 20 (Euclid) to 400 employees (Freres). ¹³ However, some of the largest firms are classified primarily in industries such as logging and sawmilling. Of the firms that product CLT, Sterling Lumber is the largest at 100. While they produce industrial CLT and no architectural CLT, it offers a reasonable number of jobs for a large producer. These estimates were used to provide a reasonable range of firm sizes to use for the three scenarios.

Table 10. Scenario Inputs, Typical Year of Operations

	Number of employees	Payroll and Benefits	Industry Sales
Scenario I - Small CLT manufacturing firm	20	\$1.1	\$4.7
Scenario II - Mid-sized CLT manufacturing firm	50	\$2.9	\$11.7
Scenario III - Large firm or cluster of firms	100	\$5.9	\$23.3

SOURCE: IMPLAN, REFERENCE USA

Table 10 shows the estimated number of employees, payroll and benefits, and industry sales for the three scenarios used in modeling. Scenario I represents a small CLT manufacturing firm with 20 employees and roughly \$4.7 million in annual sales. Scenario II represents a mid-sized firm with 50 employees and approximately \$11.7 million in sales. Scenario III represents a large firm, or cluster of firms, with 100

¹⁰ The study used IMPLAN's sectoring scheme, which includes 550 industries

¹¹ The industry, owner-occupied dwellings, includes imputed rental activity by homeowners. In this case, market rents are used to estimate the value to the property owner.

¹² Wood Innovations. 2018. Changing How America Builds: Mass Timber Momentum 2014-2018. United States Forest Service.

¹³ Reference USA, 2019

employees and \$23.3 million in sales. Industry sales and payroll estimates are based on IMPLAN's employee-to-sales ratios for the engineered wood products and truss manufacturing industry, an industry that includes CLT manufacturing.

Table 11. CLT Manufacturing Annual Expenditures

Sector	Industry Title	Percentage
3134	Dimension lumber	30.0%
5001	Employee compensation	23.1%
3166	Plastics materials and resins	8.9%
3461	Management of companies and enterprises	6.7%
3156	Refined petroleum products	5.1%
3118	Coated fabric coating	3.7%
3049	Electricity transmission and distribution	3.3%
3395	Wholesale trade distribution services	2.9%
3236	Hand tools	2.2%
3411	Truck transportation services	1.5%
3050	Natural gas distribution	1.3%
3178	Adhesives	1.1%
3177	Paints and coatings	0.9%

^{*}Total will not sum to 100% as proprietor income, taxes, and other property type income are not included

Source: Oregon Best (2017), Brashaw (2018), IMPLAN (2019)

Table 11 shows a list of annual expenditures typical of a CLT manufacturing firm. This list was taken from the 2017 Oregon BEST study and modified slightly based on feedback from interviews with existing CLT manufacturers. ¹⁴ The value in the final column represents the percentage of the firm's annual operating budget that was spent on each item.

As shown in the table, a typical CLT firm spends the largest percentage of its annual operating budget on dimension lumber, followed by employee compensation. Other expenses include plastics materials and resins, management of companies and enterprises, and petroleum products.

Results

Economic impact analysis tracks an initial economic shock or activity (like the direct spending of an operating CLT firm) through multiple rounds of industry and consumer spending to show the multiplier or ripple effects through a local economy. The initial shock or activity is considered the direct effect, the resulting increase in industry spending is the indirect effect, and the resulting increase in consumer spending is the induced effect.

This section summarizes the economic impacts for an operational CLT firm, based on spending from a typical year of operations. Results are shown for three scenarios that represent a possible range of economic impacts. The first scenario represents a small firm with 20 employees. The second represents a mid-sized firm with 50 employees, and the third scenario represents a large firm or cluster of firms employing 100 workers. Impacts of the three scenarios are shown for the state of Minnesota (Table 12) and for the Arrowhead region

¹⁴ The percentage of spending on dimension lumber (23% in the Oregon BEST report) was increased to 30% for this study based on conversations with current CLT producers.

(Table 13). For ease of interpretation, only total effects are presented.¹⁵ All results are shown in millions of dollars for the year 2019.

Table 12. Total Economic Impacts for CLT Manufacturing Firm, in Millions, State of Minnesota

	Employment	Labor Income	Value Added	Output
Scenario I	38	\$2.5	\$3.3	\$8.2
Scenario II	95	\$6.2	\$8.2	\$20.3
Scenario III	190	\$12.4	\$16.4	\$40.6
Multiplier	1.9	1.9	2.3	1.7

SOURCE: IMPLAN

The first column of Table 12, labeled employment, estimates the number of jobs that an operational CLT firm could support directly and through indirect and induced effects throughout the state. Employment estimates are in terms of jobs, not in terms of full-time equivalent employees. In the state of Minnesota, it is estimated that a small CLT firm could create 38 jobs (Scenario I), while a large firm could create nearly 200 jobs statewide. The proposed firm has an employment multiplier of 1.9, meaning that for every job created directly in CLT manufacturing, another 0.9 jobs would be created through induced and indirect effects in related industries.

The second column, labeled labor income, shows all employee compensation, including wages, benefits, and proprietor income. This also includes labor income of workers employed by the CLT firm as well as those employed in related industries. Total effects for the three scenarios range from \$2.5 million to \$12.4 million in additional labor income, depending on the firm size. The labor income multiplier is also 1.9, suggesting that for every dollar in labor income paid to a CLT employee, another \$0.90 is created elsewhere in the state.

The third column, value added, represents spending that goes specifically towards wages, rents, interest, and profits in the study area. It can be thought of as the difference between revenue and the cost of inputs. It is estimated that for the state of Minnesota, the impacts of a CLT firm could range from \$3.3 million to \$16.4 million in new value added spending depending on the firm size. The value added multiplier for a CLT firm is 2.3. This means that for every dollar contribution to the state's GDP by a CLT firm, another \$1.30 is added by other industries.

Output, the last column in the table, is the total value of all local production required to sustain activities. The total output of a CLT firm could range from \$8.2 million to \$40.6 million a year throughout the state of Minnesota, depending on the size of the firm. The output multiplier for a CLT firm is 1.7.

Table 13. Total Economic Impacts for CLT Manufacturing Firm, in Millions, Arrowhead Region

	Employment	Labor Income	Value Added	Output
Scenario I	33	\$1.9	\$2.4	\$6.8
Scenario II	82	\$4.7	\$6.0	\$16.8
Scenario III	163	\$9.5	\$12.0	\$33.6
Multiplier	1.6	1.4	1.7	1.4

Source: IMPLAN

Results in Table 13 show the total effects of the three scenarios for the Arrowhead region. Economic impacts

¹⁵ For detailed results of modeling, including direct, indirect, and induced effects for all three scenarios, see Appendix F.

for the Arrowhead region are smaller than those for the state of Minnesota due to the smaller study area, but the results are significant nonetheless. A small CLT firm (i.e. 20 employees) located in the Arrowhead region could add \$6.8 million in output, \$2.4 million in value added, \$1.9 million in labor income, and 33 workers to the region's economy. A large firm (i.e. 100 employees) could add more than \$33 million in output, \$12 million in value added spending, \$9.5 million in labor income, and 163 jobs to the region's economy. In the Arrowhead region, the proposed CLT firm has an employment multiplier of 1.6, meaning that for every job created directly, another 0.6 jobs are created elsewhere in the seven-county region as a result.

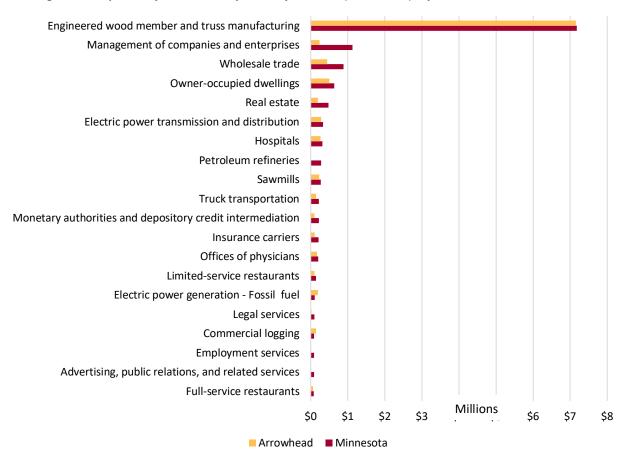


Figure 19. Top Twenty Industries Impacted by CLT Firm (Scenario III), by Contribution to Value Added

Source: IMPLAN

Figure 19 shows the top twenty industries impacted by the operation of a CLT firm for both study areas. Values shown are the total increase in value added to each industry as a result of a new CLT manufacturing firm. The industry most significantly impacted by the creation of a new CLT firm would be engineered wood member and truss manufacturing—the industry that includes CLT manufacturing. The impacts to that industry include the direct effects of the firm, which is why they are so much larger than the other industries shown. All of the other industries in the figure would be impacted through indirect or induced effects. Of these, management of companies and enterprise, wholesale trade, owner-occupied dwellings, and real estate are those most likely to benefit.

It is interesting to compare these findings with the top industries for each of the two study areas, as shown in Figures 17 and 18 (page 33). Many of the same industries appear in each of the three figures, including real estate, electric power transmission and distribution, and hospitals. However, there are some smaller industries that could significantly benefit from the addition of a CLT manufacturing firm somewhere in the Arrowhead region or the state. For example, sawmill, truck transportation, and commercial logging industries are not among the top 15 largest industries in either study area (Figures 17 and 18), but they would see significant economic benefits as a result of CLT manufacturing (Figure 19).

Conclusions

- Three scenarios were modeled and represent a range of firm sizes. Scenario I represents a small CLT manufacturing firm with 20 employees and roughly \$4.7 million in annual sales. Scenario II represents a mid-sized firm with 50 employees and approximately \$11.7 million in sales. Scenario III represents a large firm, or cluster of firms, with 100 employees and \$23.3 million in sales.
- The largest annual expenditures for a CLT firm include dimension lumber, employee compensation, plastics materials and resins, and management of companies and enterprises.
- Results of modeling found that a small CLT firm with roughly 20 employees could contribute roughly \$8.2 million in output, \$3.3 million in value added, and \$2.5 million in labor income to the state's economy. A large firm (100 employees) could have impacts of more than \$40 million in output, \$16.4 million in value added spending, and \$12.4 million in labor income.
- Overall employment impacts for the three scenarios could range from 38 jobs statewide (for a small firm) to 190 jobs statewide (for a large firm). These jobs include the workers directly employed by a potential CLT firm as well as workers employed in other related industries.
- Impacts for the Arrowhead region would be smaller, yet significant, than those for the state of Minnesota. A small CLT firm (i.e. 20 employees) located in the Arrowhead region could add \$6.8 million in output, \$2.4 million in value added, \$1.9 million in labor income, and 33 workers to the region's economy, while a large firm (i.e. 100 employees) could add more than \$33 million in output, \$12 million in value added, \$9.5 million in labor income, and 163 workers to the region's economy.
- Industries that would be impacted the most by a CLT firm include engineered wood member and truss manufacturing (the industry that includes CLT manufacturing), management of companies and enterprises, and wholesale trade.
- While the sawmill, truck transportation, and commercial logging industries are not among the top 15 largest industries in either study area, they would see significant benefits as a result of CLT manufacturing.

Appendix A. Definitions Used in this Report

Board foot: A common wood measurement for a piece of lumber that is 12 inches wide, 12 inches long, and 1 inch thick $(12 \times 12 \times 1)$; mainly for estimation purposes.

Carbon footprint: The amount of carbon dioxide and other carbon compounds emitted due to the consumption of fossil fuels by a particular person, group, etc.

Cross-laminated timber (CLT): A large-scale, prefabricated, engineered wood panel. A CLT panel is made up of several layers (typically three, five, or seven) of dimension lumber stacked in alternating directions, bonded with structural adhesives, and pressed to form a solid, rectangular panel.

CLT-suitable lumber: Lumber that meets CLT species, dimension, grade, and manufacturing specifications

Dimensional lumber: A type of lumber that is cut to specified industry-standard dimensions (e.g. 2 x 4, 2 x 6).

Direct effect: Initial new spending in the study area resulting from the project.

Dowel-laminated timber (DLT): A mass timber panel which can be used for floor, wall, and roof structures. In many ways, it is similar to Nail Laminated Timber (NLT), but utilizes dowels rather than nails to secure lumber, making it a 100% wood product.

Economic impact: The effect of an event on the economy in a specified area, ranging from a single neighborhood to the entire globe. It usually is measured by changes in business revenue, business profits, personal wages, and/or jobs.

Employment: Estimates (from U.S. Department of Commerce secondary data) are in terms of jobs, not in terms of full-time equivalent employees. Therefore, these jobs may be temporary, part-time, or short-term.

Engineered wood products: Also called composite wood, man-made wood, or manufactured board, these products are manufactured by binding or fixing the strands, particles, fibres, or veneers or boards of wood, together with adhesives, or other methods of fixation to form composite materials.

Glue-laminated timber (GLT): Glued laminated timber, also called glulam, is a type of structural engineered wood product comprising a number of layers of dimensional lumber bonded together with durable, moisture-resistant structural adhesives. In North America, the material providing the laminations is termed laminating stock or lamstock.

Indirect effect: The additional inter-industry spending from the direct impact. For example, increased sales in linen supply firms resulting from more motel sales would be an indirect effect of visitor spending.

Induced effect: The impact of additional household expenditures resulting from the direct and indirect impact. For example, motel employees spend the income they earn from increased tourism on housing, utilities, groceries, and other consumer goods.

Labor income: All forms of employment income, including employee compensation (wages and benefits) and proprietor income.

Leadership in Energy and Environmental Design (LEED): An ecology-oriented building certification program that is run under the auspices of the U.S. Green Building Council (USGBC).

Machine grading: A system used to determine relative strength and stiffness of lumber using mechanical tests.

Machine stress rated lumber (MSR): Lumber that is evaluated using machine stress rating equipment.

Margins: The value of wholesale and retail trade services provided in delivering commodities from producers' establishments to purchasers. Margin is calculated as sales receipts less the cost of the goods sold. It consists of the trade margin plus sales taxes and excise taxes that are collected by the trade establishment. (BEA)

Mass timber: A type of framing style characterized by the use of large-scale engineered wood panels (such as CLT) for floor, wall, and roof construction.

Modular construction: a process in which a building is constructed off-site, under controlled plant conditions, using the same materials and designing to the same codes and standards as conventionally built facilities.

Multipliers: Total production requirements within the study area for every unit of production sold to final demand. Total production will vary depending on whether induced effects are included and the method of inclusion. Multipliers may be constructed for output, employment, and every component of value added.

Nail-laminated timber (NLT): An engineered wood product created from stacking dimension lumber and fastening it together with nails. NLT, formerly known as heavy timber or mill decking, is the oldest form of mass timber.

Output: The value of local production required to sustain activities.

Prefabricated buildings: A building that is manufactured and constructed using prefabrication. It consists of factory-made components or units that are transported and assembled on-site to form the complete building.

Retail/Industrial Accounts: Accounts that require large amounts of lumber for retail (Home Depot, Menards, etc.) or industrial (construction) purposes.

Stick framing: A traditional construction method in which roofs, floor trusses and all framing is created on site from individual pieces of lumber, as opposed to using pre-engineered wood products.

Softwood lumber: Lumber that comes from the open-grained wood of coniferous trees (pine, spruce, etc.).

Structural Composite Lumber (SCL): A family of engineered wood products created by layering dried and graded wood veneers, strands or flakes with moisture resistant adhesive into blocks of material known as billets, which are subsequently resawn into specified sizes.

T3: Short for "Timber, Technology, Transit," T3 is a seven-story, 220,000-square-foot structure in downtown Minneapolis. At the time of its completion (2016), it was the largest mass timber building in the United States.

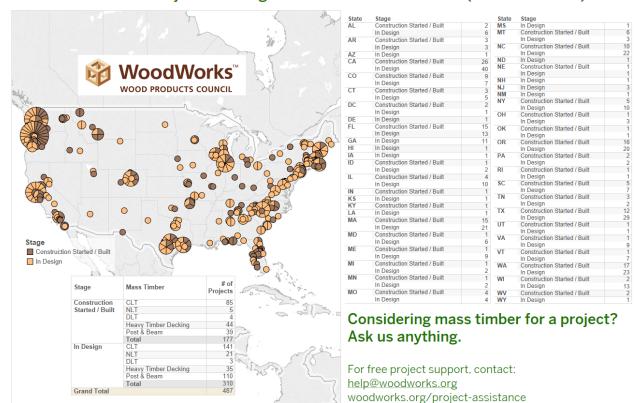
Value added: A measure of the impacting industry's contribution to the local community. It includes wages, rents, interest, and profits.

Visually grading: A system used to determine the relative strength and stiffness of lumber based on visual characteristics (knot size, slope of grain, etc.) of each piece.

Wood connectors: Components that attach one part of a building element to another. In the case of mass timber, the most common connectors are nails, dowels, and adhesives.

Appendix B. WoodWorks

Figure 20. Completed and Proposed Mass Timber Projects, U.S. Mass Timber Projects In Design and Constructed in the US (December 2018)



Source: (WoodWorks 2018)

Figure 21. Characteristics of T3 Building



Source: (WoodWorks n.d.)

Appendix C. Housing Market Statistics

Housing Market Statistics: Nation, Midwest Region, and Minnesota Metropolitan Statistical Areas

Delton Alderman, Research Forest Products Technologist USDA Forest Service, Forest Products Laboratory, Madison, Wisconsin and Northern Research Station, Princeton, West Virginia

Summary

Housing market data has been collected and analyzed in support of a mass timber market development project for Minnesota. This overview of housing data is provided for the U.S, the Midwest Region and Minnesota Metropolitan Statistical Areas. The Midwest standard census region includes Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, South Dakota, and Wisconsin. Further definitions for housing statistics are included in the glossary at the end of this report.

In 2017, there were an estimated 121,200,000 primary residences in the United States. The Midwest region was reported to have 26,687,000 units (United States Census Bureau-American Housing Survey, 2018a). The United States Energy Information Administration (2018) estimates there were 5,557,000 commercial buildings in the United States in 2016 and 1,237,000 were located in the Midwest region. Additionally, nearly 55 percent of Midwestern buildings were built before 1990 and 63 percent were one-story structures. The United States Census estimated \$6,207 million dollars were spent on residential structures and \$519 million were expended in the Midwest in 2017. In the same year, non-residential building expenditures were estimated at \$624,135 million for the U.S. and \$112,658 million were spent in the Midwest (United States Census-Construction Spending, 2018b).

This report includes building data for the Midwest; the state of Minnesota; and Metropolitan Statistical Areas for Minnesota and the United States. Included are residential housing data: single-family, multi-family, commercial real estate, and expenditures. Lastly, forecasts for residential and commercial real estate are presented.

New Housing Building Permits

National, Regional and State

Building permits are used as a leading economic indicator and permit data is used in the computation of The Conference Board's United States (U.S.) Leading Economic Index. Permits are considered as forward-looking and are valued as a good gauge for future housing supply levels that also may be utilized to identify pivot points in business cycles.

U.S. and Midwest (MW) housing permits issued have improved in the past few years as presented in Tables 1 and 2. In both instances, permit issuance does not approach levels recorded in the early 2000's. Single-Family (SF) housing remains about 50 percent less than the U.S. 2005 peak and 40 percent fewer than the 2004 high in the MW. SF housing construction generally consumes more softwood, hardwood, and wood composite products than any other type of building construction. According to results obtained from the National Association of Homebuilders (NAHB) National Impact of Home Building model analysis, constructing 1,000 average single-family homes generates 2,975 jobs and \$111.0 million in taxes and fees for all levels of government (NAHB, 2016a).

Total multi-family (MF) housing is about 61 percent less than the U.S. 1972 peak and 68 percent less in the MW (1972). MF housing construction typically consumes less wood products than in SF construction.

Table 1. U.S. housing permits: 2000 to 2018.

	Total	Single-Family	2-4 Multi-Family	≥ 5 Multi-Family
	permits	permits	unit permits	unit permits
2018: YTD ¹	1,313,000	857,000	38,000	417,000
2017	1,282,000	820,000	37,000	425,000
2016	1,207,000	751,000	35,000	421,000
2015	1,183,000	696,000	32,000	455,000
2014	1,052,000	640,000	30,000	382,000
2013	991,000	621,000	29,000	341,000
2012	830,000	519,000	26,000	285,000
2011	624,000	418,000	22,000	184,000
2010	605,000	447,000	22,000	135,000
2009	583,000	441,000	21,000	121,000
2008	905,000	576,000	34,000	295,000
2007	1,398,000	980,000	60,000	359,000
2006	1,839,000	1,378,000	77,000	384,000
2005	2,155,000	1,682,000	84,000	389,000
2004	2,070,000	1,613,000	90,000	366,000
2003	1,889,000	1,461,000	83,000	346,000
2002	1,748,000	1,333,000	74,000	341,000
2001	1,637,000	1,236,000	66,000	335,000
2000	1,592,000	1,198,000	65,000	329,000

Notes: ¹ YTD; mean of January through September data.

Source: U.S. Census-Construction.

In the five or more unit MF segment, permits far exceed those reported in the early 2000's. The aforementioned improvement in the five or more unit MF segment is not readily observed in Table 2; as Census does not provide this level of segmentation. The construction of 1,000 average MF rental apartments generates 1,133 jobs and \$42.4 million in taxes (NAHB, 2016b).

Table 2. MW¹ housing permits: 2000 to 2018.

		Single-Family	Two Multi-Family
	Total permits	permits	unit permits or more
2018: YTD ²	186,000	121,000	65,000
2017	195,000	121,000	74,000
2016	186,000	112,000	74,000
2015	171,000	105,000	66,000
2014	165,000	101,000	64,000
2013	157,000	102,000	55,000
2012	133,000	87,000	46,000
2011	103,000	71,000	32,000
2010	104,000	75,000	28,000
2009	100,000	75,000	25,000
2008	138,000	93,000	45,000
2007	212,000	154,000	58,000
2006	279,000	209,000	70,000
2005	354,000	279,000	75,000
2004	370,000	296,000	75,000
2003	371,000	287,000	84,000
2002	352,000	263,000	89,000
2001	334,000	253,000	81,000
2000	324,000	245,000	78,000

Notes: ¹ MW (Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri,

Nebraska, North Dakota, Ohio, South Dakota, and Wisconsin);

Source: U.S. Census-Construction, 2018c.

In 2017, the top five states for total permits issued in the Midwest are: Illinois, Ohio, Michigan, Minnesota, and Wisconsin. In regards to SF permits, the top five are Michigan, Ohio, Indiana, Minnesota, and Missouri. For five or more unit MF permits, the rankings are: Illinois, Minnesota, Ohio, Michigan, and Iowa (Table 3).

Table 3. MW housing permits by state*: 2017.

	Total	Single-Family	2-4 Multi-Family	≥ 5 Multi-Family
State	permits	permits	unit permits	unit permits
Illinois	24,992	10,181	1,193	13,618
Indiana	21,664	16,075	522	5,067
Iowa	13,948	8,067	474	5,407
Kansas	8,984	6,046	715	2,223
Michigan	23,623	16,652	696	6,275
Minnesota	21,953	13,508	316	8,129
Missouri	18,811	12,109	1,082	5,620

² Year-to-date (YTD) (mean of January through September 2018 data).

Nebraska	8,863	5,436	294	3,133
Ohio	23,917	16,153	855	6,909
North Dakota	3,411	2,111	52	1,248
South Dakota	5,407	3,386	231	1,790
Wisconsin	19,545	11,769	831	6,945
Total	195,118	121,493	51,717	66,364

^{*} Unadjusted data.

Source: U.S. Census-Construction, Building Permits Survey, 2018d.

Building permits issued in Minnesota track those of the U.S. in a general context. SF permitting is roughly 48 percent of its high. Conversely, MF permits are about 32 percent greater than 2004 (Table 4).

Table 4. Minnesota housing permits¹: 2000 to 2018.

	Total	Single-Family	Multi-Family
	permits	permits	permits
2018: YTD ²	2,328	1,245	1,083
2017	2,020	1,224	796
2016	1,964	1,135	829
2015	1,686	1,019	667
2014	1,402	862	540
2013	1,392	881	511
2012	1,242	712	530
2011	685	522	163
2010	793	560	233
2009	768	569	199
2008	904	697	207
2007	1,487	1,160	327
2006	2,289	1,816	473
2005	3,020	2,479	541
2004	3,399	2,576	823
2003	3,349	2,577	772
2002	3,051	2,172	879
2001	2,742	2,100	642
2000	2,709	2,063	646

¹ Seasonally adjusted annual data.

Source: Federal Reserve Bank of St. Louis, 2018.

² YTD (total January through September 2018 data).

Metropolitan Statistical Areas

Analysis of metropolitan statistical areas (MSA) yielded insight into MSA's where housing construction was strongest. Generally, greater Chicago, greater Minneapolis, greater Detroit, and greater Indianapolis issued the most permits (Tables 5 to 8).

Total building permits issued were the highest in Chicago and surrounding areas, followed by Minneapolis, and Detroit (Table 5). SF permits are the highest in Minneapolis, followed by Chicago (Table 6). Greater Chicago leads the 3 to 4-unit MF permits issued (Table 7) and Chicago, Minneapolis, and Detroit recorded the most five or greater MF units (Table 8).

Table 5. Top 10 Building permits: Total units, MW MSA's*: 2017.

MSA	Total units
Chicago-Naperville-Elgin, IL-IN-WI	22,132
Minneapolis-St. Paul-Bloomington, MN	15,100
Detroit-Warren-Dearborn, MI	10,089
Indianapolis-Carmel-Anderson, IN	9,079
Columbus, OH	8,892
St. Louis, MO-IL	7,295
Cincinnati, OH-KY-IN	6,465
Des Moines-West Des Moines, IA	6,367
Louisville-Jefferson County, KY-IN	5,785
Omaha-Council Bluffs, NE-IA	4,955
Total Midwest MSA's	155,171

^{*81} total MSA's are reported in the MW by U.S. Census-Construction. Source: U.S. Census-Construction, Building Permits Survey, 2018d.

Table 6. Top 10 Building permits: SF units MW MSA's*: 2017.

MSA	Single-Family units
Minneapolis-St. Paul-Bloomington, MN	8,782
Chicago-Naperville-Elgin, IL-IN-WI	8,416
Detroit-Warren-Dearborn, MI	6,838
Indianapolis-Carmel-Anderson, IN	6,755
St. Louis, MO-IL	5,608
Cincinnati, OH-KY-IN	4,440
Columbus, OH	4,295
Des Moines-West Des Moines, IA	3,697
Louisville-Jefferson County, KY-IN	3,446
Omaha-Council Bluffs, NE-IA	3,158
Minneapolis-St. Paul-Bloomington, MN	8,782
Chicago-Naperville-Elgin, IL-IN-WI	8,416
Total Midwest MSA's	92,349

^{*81} total MSA's are reported in the MW by U.S. Census-Construction.

Source: U.S. Census-Construction, Building Permits Survey, 2018d.

Table 7. Top 10 Building permits: 2 to 4 MF units MW MSA's*: 2017.

MSA	Multi-Family units
Chicago-Naperville-Elgin, IL-IN-WI	1,024
Detroit-Warren-Dearborn, MI	332
Minneapolis-St. Paul-Bloomington, MN	236
Cleveland-Elyria, OH	199
Indianapolis-Carmel-Anderson, IN	197
Cedar Rapids, IA	184
Columbus, OH	158
Cincinnati, OH-KY-IN	145
Madison, WI	138
St. Louis, MO-IL	115
Total Midwest MSA's	4,648

^{*81} total MSA's are reported in the MW by U.S. Census-Construction. Source: U.S. Census-Construction, Building Permits Survey, 2018d.

Table 8. Top 10 Building permits: MF 5 or more units MW MSA*: 2017.

MSA	5-units or more
Chicago-Naperville-Elgin, IL-IN-WI	12,692
Minneapolis-St. Paul-Bloomington, MN	6,082
Columbus, OH	4,439
Detroit-Warren-Dearborn, MI	2,919
Madison, WI	2,838
Des Moines-West Des Moines, IA	2,623
Louisville-Jefferson County, KY-IN	2,265
Indianapolis-Carmel-Anderson, IN	2,127
Milwaukee-Waukesha-West Allis, WI	1,975
Cincinnati, OH-KY-IN	1,880
Total: Midwest MSA's	58,074

^{*81} total MSAs are reported in the Midwest by U.S. Census-Construction. Source: U.S. Census-Construction, Building Permits Survey, 2018d.

In Minnesota, the Minneapolis-St. Paul-Bloomington MSA is the clear leader in housing construction. Nearly 74 percent of total permits issued were in the greater Minneapolis MSA. Accordingly, 74 percent of SF permits and 75 percent of MF permits issued were in the Minneapolis-St. Paul-Bloomington MSA (Table 9).

Table 9. Building permits: Minnesota MSA's, 2017.

	Total	Single-	2-4 Multi-	≥ 5 Multi-
State	units	Family units	Family units	Family units
Minneapolis-St. Paul-	15,100	8,782	236	6,082
Bloomington	15,100	0,762	230	0,082
Fargo, ND-MN	1,891	1,065	0	826
Rochester	1,449	818	6	625
Duluth, MN-WI	665	508	4	153
Mankato-North Mankato	516	342	12	162
La Crosse-Onalaska, WI-MN	432	278	16	138
Grand Forks, ND-MN	417	227	4	186
Total: Minnesota	20,470	12,020	278	8,172

^{*7} total MSA's are reported in Minnesota by U.S. Census-Construction.

Source: U.S. Census-Construction, Building Permits Survey, 2018d.

New Housing Starts

National and Regional

Housing starts are considered as a leading indicator for the overall U.S. economy. Housing starts are not included as a component of the leading index, but are a coincident indicator. Changes in the rate of housing starts reveal substantive information regarding new housing demand and the outlook for the construction industry, including construction employment.

As presented in the permit section, aggregate housing starts do not come close to the levels reported in the early 2000's. SF housing starts remains about 50 percent less than the 2005 peak (U.S.) and 40 percent fewer than 2004 high in the MW (Tables 10 and 11).

Table 10. U.S. housing starts: 2000 to 2018.

	Total	Single-	2-4 Multi-Family	≥ 5 Multi-Family
	starts	Family starts	unit starts	unit starts
2018: YTD ¹	1,265,000	885,000	13,000	367,000
2017	1,203,000	849,000	11,000	343,000
2016	1,174,000	782,000	12,000	381,000
2015	1,112,000	715,000	12,000	386,000
2014	1,003,000	648,000	14,000	342,000
2013	925,000	618,000	14,000	294,000
2012	781,000	535,000	11,000	234,000
2011	609,000	431,000	11,000	167,000
2010	587,000	471,000	11,000	104,000
2009	554,000	445,000	12,000	97,000
2008	906,000	622,000	18,000	266,000
2007	1,355,000	1,046,000	32,000	277,000

2006	1,801,000	1,465,000	43,000	293,000
2005	2,068,000	1,716,000	41,000	311,000
2004	1,956,000	1,611,000	42,000	303,000
2003	1,848,000	1,499,000	34,000	315,000
2002	1,705,000	1,359,000	39,000	308,000
2001	1,603,000	1,273,000	37,000	293,000
2000	1,569,000	1,231,000	39,000	299,000

Notes: ¹ YTD; mean of January through September data.

Source: U.S. Census-Construction, 2018c.

Table 11. MW¹ housing starts²: 2000 to 2018.

1 4010 11.1111	nousing starts . 2000	10 2010.	
		Single-Family	Two Multi-Family
	Total starts	starts	unit starts or more
$2018: YTD^2$	174,000	125,000	49,000
2017	180,000	131,000	49,000
2016	185,000	123,000	62,000
2015	150,000	105,000	45,000
2014	159,000	103,000	56,000
2013	149,000	102,000	47,000
2012	129,000	93,000	36,000
2011	103,000	77,000	26,000
2010	98,000	79,000	19,000
2009	95,000	74,000	21,000
2008	134,000	102,000	32,000
2007	206,000	168,000	38,000
2006	284,000	240,000	44,000
2005	357,000	305,000	52,000
2004	356,000	307,000	49,000
2003	373,000	309,000	64,000
2002	352,000	280,000	72,000
2001	330,000	269,000	61,000
2000	317,000	260,000	57,000
1			

Notes: ¹ MW (Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri,

Nebraska, North Dakota, Ohio, South Dakota, and Wisconsin).

Source: U.S. Census-Construction, 2018c.

In the five or more unit MF segment, total U.S. 2017 starts are greater than those reported in the early 2003 – about 16 per cent greater (Table 10). However, improvement in the five or more unit MF segment is not readily observed in Table 11 as Census does not provide this level of segmentation.

² YTD (mean of January through September 2018 data).

Regional Expenditures

Housing construction spending data are considered a coincident indicator. The residential category includes SF homes, MF, and remodeling or improvement spending. Housing analysts' research construction spending for cues about the overall economy, as the housing construction industry is one of the first into a recession and historically, is an industry that recovers earliest with improving economic conditions. On a nominal basis, U.S. residential construction spending has not recovered (Tables 12 and 13). Similarly, in 2107, MW residential spending was about one-third of that reported in 2010 (Table 12).

Table 12. Annual value¹ of private residential construction put in place by region, 2006-2017.

	NE	MW	S	W	United States
2017	2,861	519	1,456	1,371	6,207
2016	2,724	889	1,181	1,266	6,059
2015	2,324	775	1,295	1,308	5,701
2014	1,227	484	1,272	1,146	4,128
2013	1,290	587	1,566	1,094	4,537
2012	1,191	837	1,348	1,296	4,672
2011	2,050	1,049	1,456	1,407	5,962
2010	2,129	1,530	2,462	1,455	7,576
2009	1,947	1,074	1,518	1,234	5,772
2008	1,417	1,084	1,242	1,151	4,894
2007	1,216	1,079	1,708	1,092	5,094
2006	1,335	965	1,289	760	4,349

¹ Millions of dollars, nominal.

Source: U.S. Census-Construction Spending, 2018b.

In 2017, U.S. private nonresidential construction expenditures were greatest in the commercial, manufacturing, and office sectors. MW nonresidential construction expenditures mirrored those reported for the U.S. (Table 13).

Table 13. Annual value¹ of private nonresidential construction put in place by region, 2017.

					United
	Northeast	Midwest	South	West	States
Lodging	5,834	4,085	10,397	7,669	27,985
Office	15,745	7,914	19,703	15,201	58,564
Commercial	12,224	16,529	35,978	19,907	84,637
Health Care	6,069	7,362	11,867	7,348	32,645
Educational	7,614	3,843	5,967	2,839	20,263
Religious	414	648	1,717	587	3,366
Amusement and Recreation	2,279	2,946	4,738	3,795	13,757
Transportation	1,527	343	1,664	1,158	4,692
Manufacturing	5,247	12,602	40,436	7,512	65,796

Total: nonresidential expenditures	57,033	56,386	132,851	66,160	312,430
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¹ millions of dollars, nominal.

Source: U.S. Census-Construction, 2018b.

Residential and Commercial Real Estate Forecasts

Residential Real Estate

Residential real estate is comprised of SF, two to four-unit MF, and five units or more MF categories. Since the 2009 nadir of housing construction, housing has improved; though SF and MF construction levels remain well less than historical highs. Most analysts believe that the Millennial generation will drive future construction and sales, as many of the 67 million Millennials enter the work force and might have the opportunity to move out on their own.

Future housing construction forecasts are in a tight range, and none expect the U.S. market to approach historical levels in the near term. For instance. John Burns Real Estate Consulting project total housing starts of 1.29 million in 2019 and 1.25 million units in 2020 (Jerke, 2018). Zelman & Associates project 915,000 SF starts in 2019 (McManus, 2019). Vitner *et al.* (2019) forecast 1,300 million total starts in 2019 (920,000 SF and 380,00 MF) and 1,300 million total starts in 2020 (930,000 SF and 370,00 MF). Similarly, the Mortgage Bankers Association (2019) projects 1,320 million total starts in 2019 (900,000 SF and 385,00 MF) and 1,300 million total starts in 2020 (940,000 SF and 380,00 MF).

Commercial Real Estate

MF housing

Currently, and in the past few years, Class A apartments have been the majority of buildings completed; this category is/was built for more affluent renters. Sebree and Chang (2019) opine that "much of the rental demand will center on apartments that serve the traditional workforce: Class B and C properties." They also state that Minneapolis-St. Paul's "sustained apartment demand kept vacancy persistently tight, allowing steady rent growth. It is the only Midwest market to break into the top 20" [in the U.S.].

In 2019, increased MF completions will result in total apartment additions (since 2012) of greater than 2.1 million units. This quantity is a net inventory gain of about 13 percent in the past eight years. Despite the completion of the "most apartments since the 1980s, vacancy is forecast to remain at just 4.6 percent in 2019. With rising labor and materials costs, tighter lending, and a shortage of skilled construction labor available, the pace of construction should begin to ebb in 2020" (Sebree and Chang, 2019).

Nonresidential structures

Deloitte (2019) posits that a large proportion of their recent survey respondents plan to increase their capital commitment to commercial real estate (CRE), with the United States, Germany, and Canada as the prominent countries. This includes "...mixed-use properties and new business models such as properties with flexible leases and spaces are expected to attract an increased allocation of investment dollars." In addition, PwC Real Estate (2019) states that by 2020, "it's likely that all buildings in advanced economies will need to have sustainability ratings. What's more, the concept of sustainability will have broadened to mean creating 'places' where people enjoy living and working."

CRE expenditures

Daum *et al.* (2019) forecast that \$545,291billion will be spent on nonresidential structures in 2019. Further they project \$67,867 billion (2019) in the East North Central region (Illinois, Indiana, Michigan, Ohio, and Wisconsin); \$69,945 in 2020; \$71,482 in 2021; and \$78,638 in 2022. For the West North Central region (Iowa, Kansas, Missouri, Minnesota, Nebraska, North Dakota, and South Dakota) \$46,694 billion in 2019; \$45,563 in 2020; \$45,661 in 2021; and \$47,371 in 2022.

In the East North Central region, the five top building categories – in order (based on projected expenditures) are: educational, commercial, office, manufacturing, and transportation. For the West North Central region, the top five are: educational, commercial, office, manufacturing, and transportation (Daum *et al.*, 2019).

Glossary

Housing Permits—The approval given by a local jurisdiction to proceed on a construction project. Not all areas of the country require a permit for construction.

Housing Starts—Start of construction occurs when excavation begins for the footings or foundation of a building. All housing units in a multifamily building are defined as being started when this excavation begins. Beginning with data for January 1992, estimates of housing starts include units in structures being totally rebuilt on an existing foundation.

Housing Unit—A housing unit, as defined for purposes of these data, is a house, an apartment, a group of rooms, or a single room intended for occupancy as separate living quarters. Separate living quarters are those in which the occupants live separately from any other individuals in the building and which have a direct access from the outside of the building or through a common hall. In accordance with this definition, each apartment unit in an apartment building is counted as one housing unit. Housing units, as distinguished from "HUD-code" manufactured (mobile) homes, include conventional "site-built" units, prefabricated, panelized, sectional, and modular units. Housing unit statistics also exclude group quarters (such as dormitories and rooming houses), transient accommodations (such as transient hotels, motels, and tourist courts), moved

or relocated buildings, and housing units created in an existing residential or nonresidential structure. Units in assisted living facilities are considered to be housing units, however, units in nursing homes are not considered to be housing units.

Metropolitan Areas—The titles and definitions for Metropolitan Areas (MAs), which are made up of Metropolitan Core-Based Statistical Areas (CBSAs), conform to those defined by the Office of Management and Budget, Executive Office of the President, as of December 2003. More information on Metropolitan Areas can be found at www.census.gov/programs-surveys/metro-micro.html.

Midwest Region—The standard Census geographic region is used in these statistics. Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, South Dakota, and Wisconsin

Multifamily Housing—Residential buildings containing units built one on top of another and those built side-by-side which do not have a ground-to-roof wall and/or have common facilities (i.e., attic, basement, heating plant, plumbing, etc.)

Not Seasonally Adjusted—Data labeled "Not Seasonally Adjusted" refers to the fact that the data are not adjusted for seasonality using seasonal adjustment and not shown at an annual rate. Detailed information on seasonal adjustment can be found at: www.census.gov/srd/www/winx13/

Permit-Issuing Place—A geographic area that issues building or zoning permits for the construction of residential structures. The area may be a single municipality or county or a combination of multiple municipalities.

Residential Building—A residential building is a building consisting primarily of housing units. In a new building combining residential and nonresidential floor areas, every effort is made to include the residential units in these statistics, even if the primary function of the entire building is for nonresidential purposes.

Reported Data—Data labeled as "Reported Data" include the data reported from the respondent or from the Census Bureau's Survey of Construction (SOC) but exclude imputed data.

Seasonally Adjusted Annual Rate—Seasonal adjustment is the process of estimating and removing seasonal effects from a time series to better reveal certain non-seasonal features such as underlying trends and business cycles. Seasonal adjustment procedures estimate effects that occur in the same calendar month with similar magnitude and direction from year to year. In series whose seasonal effects come primarily from weather, the seasonal factors are estimates of average weather effects for each month.

Single-Family House—The single-family statistics include fully detached, semidetached (semi attached, side-by-side), row houses, and townhouses. In the case of attached units, each must be

separated from the adjacent unit by a ground-to-roof wall in order to be classified as a single-family structure. Also, these units must not share heating/air-conditioning systems or utilities. Units built one on top of another and those built side-by-side that do not have a ground-to-roof wall and/or have common facilities (i.e., attic, basement, heating plant, plumbing, etc.) are not included in the single-family statistics.

Unadjusted—For State data: Not seasonally adjusted; For MSA data: Not seasonally adjusted and not weighted.

Value of Construction Put in Place—The "value of construction put in place" is a measure of the value of construction installed or erected at the site during a given period. For an individual project, this includes—

- 1. Cost of materials installed or erected.
- 2. Cost of labor (both by contractors and force account) and a proportionate share of the cost of construction equipment rental.
- 3. Contractor's profit.
- 4. Cost of architectural and engineering work.
- 5. Miscellaneous overhead and office costs chargeable to the project on the owner's books.
- 6. Interest and taxes paid during construction (except for state and locally owned projects).

The total value-in-place for a given period is the sum of the value of work done on all projects underway during this period, regardless of when work on each individual project was started or when payment was made to the contractors. For some categories, published estimates represent payments made during a period rather than the value of work actually done during that period. For other categories, estimates are derived by distributing the total construction cost of the project by means of historic construction progress patterns.

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Appendix D. Construction Monitor Reports

Table 14. 2018 Minnesota Building Permit Summary

Construction Monitor					Minnes Single Family	ota Builde	ers	Minnesota Multi-Family Builders Year-to-Date 11/28/2018		
			anenitro scora		Year-to-Date 1 Builder		18 Value			
Minnesota Buildir					D R Horton Inc	lomes 330	\$89,196,730		Units 219 \$2	Value 247,569,393
Year-to-Dat					Pulte Homes Of	201	\$58,780,753	1 Frana Companies 2 Doran Const		122,731,434
Residential	Permits	Value	Units		Lennar Homes	212	\$58,751,781	3 MA Mortenson	946 9	75,692,982
Single Family Homes	3,268	\$968,323,455	3264	4	Calatlantic Homes	180	\$47,941,272	4 Weis Builders		69,857,293
Duplexes & Twin Homes	8	\$1,765,065	16	5	Capstone Homes	125	\$31,734,436	5 Ryan Companies	174 9	35,868,201
Apartments & Condos	70	\$890,941,514	8167	6	Robert Thomas	79	\$26,309,000	6 Eagle Building Co		35,171,581
Other Residential Structures	460	\$11,738,604	2		Hanson Builders Inc	56	\$20,193,559	7 Stevens Const Corp		29,000,000
Swimming Pools & Spas	191	\$9,464,526	0		Engelsma	1 44	\$16,017,730 \$13.091.811	8 Urban On First Llc	355 \$	28,380,000
Garages & Carports	674	\$19,421,268	0	10	Etemity Homes LLC Brandl Anderson	44	\$12,688,187	9 Frerichs Const Co 10 New Market Bank	75 9 144 9	24,974,517 22,392,840
Res Rmdl, Addn, Int Fin	11,554	\$407,250,886	0		M/I Homes Of	36	\$9,340,100			522,392,640
Reroof Residential	885	\$27,047,736	0		Sharper Homes Inc	28	\$9,019,155	Minnes	sota	
Total Residential Const	17,110	\$2,335,953,152	11,449	13	Keyland Homes	29	\$8,007,800	Other Resident	tial Builde	ers
Commercial	Permits	Value	Units	14	Jonathan Homes Of	19	\$7,825,648	Year-to-Date 1		
Offices/Banks/R&D/Professional	16	\$100,999,705	0	15		14	\$7,815,000		Permits	Value
Retail/Whsl/Dining/Personal	13	\$60,958,918	0		One Ten Ten Homes	26 23	\$7,548,812	1 Renewal By		23,553,763 10,131,812
Mixed Use	10	\$284,159,294	122	17	Donnay Homes Inc	23	\$7,332,062 \$7,061,509	2 Flannery Const Inc 3 Weis Builders	1 1	\$8,200,000
Auto/Truck Sales & Service	1	\$3,500,000	0	19		24	\$6,804,760	4 Project One Const	3	\$3,297,400
Parking Structures & Carports	9	\$4,815,694	0	20		13	\$5,839,727	5 Frerichs Const Co	5	\$2,801,204
Motels, Hotels, & RV Parks	8	\$108,145,462	0		Distinctive Design	22	\$5,656,915	6 Pella Northland	134	\$2,718,740
Indus-Manuf, Whse-Shops,	11	\$40,432,263	0		Boulder Const LLC	24	\$5,570,179	7 Pella Northland	131	\$2,358,392
Public Transportation	1	\$14,000	0		M/I Homes of	21	\$5,558,000	8 Superior Mechanical	3	\$2,350,000
Hospitals & Other Institutions	3	\$1,500,000	0	24	Bigelow Homes Inc	24	\$5,501,225	9 Ecco Const	1	\$2,279,000
Churches & Other Religious	3	\$2,179,000	0	25		25	\$5,390,000	10 NL Tollefson Inc	2	\$2,231,350
Private Schools & Day Care	1	\$1,670,044	0	26	The Duland	20 19	\$5,383,235 \$5,283,243	11 Custom Remodelers 12 J G Hause Const Inc	127 19	\$2,025,142 \$2,001,000
Public Buildings & Projects	11	\$128,921,802	0			19 22		13 WL Hall Co	19	\$1,961,265
Utilities (gas elect wtr swr)	172	\$93,726,821	0	28	Price Custom Homes Twin Cities Habitat	22	\$5,010,447 \$4,881,240	14 Refined Remodeling	4	\$1,961,260
Parks, Recreation, Entertain,	5	\$1,683,000	0	30	Weekley Homes LLC	20	\$4,669,624	15 Theisen Renovations	9	\$1,910,000
Agricultural Buildings & Sheds	49	\$1,354,872	0		NIH Homes LLC	11	\$4,659,031	16 Dovetail Renovation	9	\$1,880,000
Other Non-Residential Buildings	195	\$636,793,593	0	32	Charles Cudd Co	10	\$4,499,255	17 Lindus Const	86	\$1,688,800
Comm Structures Other Than	115	\$12,352,796	0	33	Distinctive Design	18	\$4,240,342	18 Terra Firma Bldg &	17	\$1,508,624
Comm Rmdl. Addn. Int Fin	4.123	\$1,804,471,811	0		Hnh Homes Lic	1	\$4,000,000	19 Anchor Builders LLc	7	\$1,472,451
Reroof Commercial	496	\$79,480,597	0		Penz Custom Homes	17	\$3,931,563	20 Fred Nordahl Const	8	\$1,455,000
Total Commercial Const	5.242	\$3,367,159,552	122	36	Med City Builders	12	\$3,787,396	21 Trehus Builders Inc 22 White Crane Const	26 18	\$1,440,267 \$1,368,633
Solar	Permits	Value	Units	37	Eagle Building Co Llc Friemann Co Inc	36 20	\$3,765,936 \$3,713,000	23 Scherer Bros Lumber		\$1,365,237
Alternative Residential Energy	335	\$5,401,806	Onits	39	Meadow Creek	16	\$3,713,000	25 Scheler Blos Euriber	12	\$1,300,237
Alternative Commercial Energy	68	\$17,639,844	0		Timbercrest LLC	22	\$3,626,700	Minnes	sota	
Total Solar Const	403		0		Fieldstone Family	15	\$3.591.938	Commercial		
		\$23,041,650	_	42	McDonald Const Inc	7	\$3,542,600	Year-to-Date 1		
Total Minnesota Const	22,755	\$5,726,154,240	11,571	43	Dewitt Bro Home Inc	4	\$3,459,080		Permits	Value
				44	Stone Cottage Const	12	\$3,416,000	1 Kraus Anderson		210,470,859
Minnesota Buildir	ıg Permi	it Summarv			Dean Johnson Homes	12	\$3,409,900	2 Weis Builders	4 \$1	148,620,153 108,875,445
								2 Moio Buildom	24 64	
Week 48 - 11/22/18 to 11/2	28/18 (pe	ermits over \$10,0	00)	46		5	\$3,372,157	3 Weis Builders	24 \$1	100,070,440
Residential	28/18 (pe Permits	ermits over \$10,0 Value	Units	47	R Fleming Const	9	\$3,348,479	4 RJ Ryan Const	24 \$1 42 \$1	103,781,768
Residential Single Family Homes	Permits 74	ermits over \$10,0 Value \$16,777,145	Units 74	47 48	R Fleming Const Paul Emmerich Const	9 13	\$3,348,479 \$3,195,517		24 \$1 42 \$1 78 \$1	103,781,768 100,220,018 \$88,355,000
Residential Single Family Homes Demolition	Permits 74 8	ermits over \$10,00 Value \$16,777,145 \$389,931	Units 74 0	47	R Fleming Const Paul Emmerich Const City Homes LLC	9 13 3	\$3,348,479 \$3,195,517 \$3,130,722	4 RJ Ryan Const 5 Mcgough Const 6 Independent School 7 Gardner Builders	24 \$1 42 \$1 78 \$1 1 \$	103,781,768 100,220,018 \$88,355,000 \$84,432,262
Resi denti al Single Family Homes Demolition Footing & Foundation	Permits 74 8 4	ermits over \$10,00 Value \$16,777,145 \$389,931 \$36,300	Units 74 0	47 48 49 50 51	R Fleming Const Paul Emmerich Const City Homes LLC JMS Custom Homes Summit Custom	9 13	\$3,348,479 \$3,195,517 \$3,130,722 \$3,036,683 \$3,000,000	4 RJ Ryan Const 5 Mcgough Const 6 Independent School 7 Gardner Builders 8 MA Mortenson	24 \$1 42 \$1 78 \$1 1 \$ 87 \$	103,781,768 100,220,018 588,355,000 584,432,262 581,529,710
Residential Single Family Homes Demolition Footing & Foundation Apartments & Condos	Permits 74 8 4 2	ermits over \$10,00 Value \$16,777,145 \$389,931 \$36,300 \$120,692,840	Units 74 0 0 514	47 48 49 50 51 52	R Fleming Const Paul Emmerich Const Oity Homes LLC JMS Custom Homes Summit Custom Stonegate Builders	9 13 3 10 1 8	\$3,348,479 \$3,195,517 \$3,130,722 \$3,036,683 \$3,000,000 \$2,974,775	4 RJ Ryan Const 5 Mcgough Const 6 Independent School 7 Gardner Builders 8 MA Mortenson 9 Adolfson & Peterson	24 \$1 42 \$1 78 \$1 1 \$ 87 \$ 48 \$ 16 \$	103,781,768 100,220,018 588,355,000 584,432,262 581,529,710 577,807,109
Residential Single Family Homes Demolition Footing & Foundation Apartments & Condos Other Residential Structures	Permits 74 8 4 2 4	ermits over \$10,00 Value \$16,777,145 \$389,931 \$36,300 \$120,692,840 \$98,000	Units 74 0 0 514	47 48 49 50 51 52 53	R Fleming Const Paul Emmerich Const City Homes LLC JMS Custom Homes Summit Custom Stonegate Builders Creative Homes Inc	9 13 3 10 1 8 10	\$3,348,479 \$3,195,517 \$3,130,722 \$3,036,683 \$3,000,000 \$2,974,775 \$2,960,948	4 RJ Ryan Const 5 Mcgough Const 6 Independent School 7 Gardner Builders 8 MA Mortenson 9 Adolfson & Peterson 10 RJM Const	24 \$1 42 \$1 78 \$1 1 \$ 87 \$ 48 \$ 16 \$ 10 \$	103,781,768 100,220,018 588,355,000 584,432,262 581,529,710 577,807,109 574,188,000
Residential Single Family Homes Demolition Footing & Foundation Apartments & Condos Other Residential Structures Garages & Carports	Permits 74 8 4 2 4 17	ermits over \$10,00 Value \$16,777,145 \$389,931 \$36,300 \$120,692,840 \$98,000 \$626,522	Units 74 0 0 514 0	47 48 49 50 51 52 53 54	R Fleming Const Paul Emmerich Const City Homes LLC JMS Custom Homes Summit Custom Stonegate Builders Creative Homes Inc TC Const	9 13 3 10 1 8 10 15	\$3,348,479 \$3,195,517 \$3,130,722 \$3,036,683 \$3,000,000 \$2,974,775 \$2,960,948 \$2,868,400	4 RJ Ryan Const 5 Mcgough Const 6 Independent School 7 Gardner Builders 8 MA Mortenson 9 Adolfson & Peterson 10 RJM Const 11 Jorgenson Const	24 \$1 42 \$1 78 \$1 1 \$ 87 \$ 48 \$ 16 \$ 10 \$ 34 \$	103,781,768 100,220,018 888,355,000 884,432,262 881,529,710 877,807,109 874,188,000 865,147,042
Resi dential Single Family Homes Demolition Footing & Foundation Apartments & Condos Other Residential Structures Garages & Carports Res Rmd, Addh, Int Fin	Permits 74 8 4 2 4 17 256	ermits over \$10,00	Units 74 0 0 514 0 0	47 48 49 50 51 52 53 54	R Fleming Const Paul Emmerich Const City Homes LLC JMS Custom Homes Summit Custom Stonegate Builders Creative Homes Inc	9 13 3 10 1 8 10	\$3,348,479 \$3,195,517 \$3,130,722 \$3,036,683 \$3,000,000 \$2,974,775 \$2,960,948	4 RJ Ryan Const 5 Mcgough Const 6 Independent School 7 Gardner Builders 8 MA Mortenson 9 Adolfson & Peterson 10 RJM Const 12 RJM Const	24 \$1 42 \$1 78 \$1 1 \$ 87 \$ 48 \$ 16 \$ 10 \$ 34 \$ 40 \$	103,781,768 100,220,018 888,355,000 884,432,262 881,529,710 877,807,109 874,188,000 865,147,042 858,009,701
Residential Single Family Homes Demolition Footing & Foundation Apartments & Condos Other Residential Structures Garages & Carports Res Rmdl, Addn, Int Fin Reroof Residential	Permits 74 8 4 2 4 17 256 4	ermits over \$10,00	Units 74 0 0 514 0 0 0	47 48 49 50 51 52 53 54	R Fleming Const Paul Emmerich Const City Homes LLC JMS Custom Homes Summit Custom Stonegale Builders Creative Homes Inc TC Const Pietsch Builders Inc	9 13 3 10 1 8 10 15 10	\$3,348,479 \$3,195,517 \$3,130,722 \$3,036,683 \$3,000,000 \$2,974,775 \$2,960,948 \$2,868,400	4 RJ Ryan Const 5 Mcgough Const 6 Independent School 7 Gardner Builders 8 MA Mortenson 9 Adolfson & Peterson 10 RJM Const 11 Jorgenson Const 12 RJM Const 13 Ryan Companies	24 \$1 42 \$1 78 \$1 1 \$3 87 \$3 48 \$3 10 \$3 34 \$4 40 \$3 31 \$3	103,781,768 100,220,018 888,355,000 884,432,262 881,529,710 677,807,109 674,188,000 665,147,042 658,009,701 657,891,574
Resi dential Single Family Homes Demolition Footing & Foundation Apartments & Condos Other Residential Structures Garages & Carports Res Rmd, Addh, Int Fin	Permits 74 8 4 2 4 17 256	ermits over \$10,00	Units 74 0 0 514 0 0 0	47 48 49 50 51 52 53 54	R Fleming Const Paul Emmerich Const City Homes LLC JMS Custom Homes Summit Custom Stonegale Builders Creative Homes Inc TC Const Pietsch Builders Inc	9 13 3 10 1 8 10 15 10	\$3,348,479 \$3,195,517 \$3,130,722 \$3,036,683 \$3,000,000 \$2,974,775 \$2,960,948 \$2,868,400 \$2,857,391	4 RJ Ryan Const 5 Mcgough Const 6 Independent School 7 Gardner Builders 8 MA Mortenson 9 Adollson & Peterson 10 RJM Const 11 Jorgenson Const 12 RJM Const 13 Ryan Companies 14 Mcgough Const	24 \$1 42 \$1 78 \$1 87 \$8 16 \$9 10 \$9 34 \$9 40 \$3 5 \$9	103,781,768 100,220,018 888,355,000 884,432,262 881,529,710 577,807,109 574,188,000 665,147,042 558,009,701 557,891,574
Residential Single Family Homes Demolition Footing & Foundation Apartments & Condos Other Residential Structures Garages & Carports Res Rmdi, Addn, Int Fin Reroof Residential Total Residential Const	Permits 74 8 4 2 4 17 256 4	ermits over \$10,00	Units 74 0 0 514 0 0 0 0 588	47 48 49 50 51 52 53 54	R Fleming Const Paul Emmerich Const Otty Homes LLC JMS Custom Homes Summit Custom Stonegate Builders Creative Homes Inc TC Const Pietsch Builders Inc Minnes Garage and Carp	9 13 3 10 1 8 10 15 10	\$3,348,479 \$3,195,517 \$3,130,722 \$3,036,683 \$3,000,000 \$2,974,775 \$2,960,948 \$2,868,400 \$2,857,391	4 RJ Ryan Const 5 Mcgough Const 6 Independent School 7 Gardner Builders 8 MA Mortenson 9 Adollson & Peterson 10 RJM Const 11 Jorgenson Const 12 RJM Const 13 Ryan Companies 14 Mcgough Const 15 Shaw Lundquist 16 Knutson Const	24 \$1 42 \$1 78 \$1 1 87 48 9 16 9 34 40 9 31 9 31 9 38 9 38 9	103,781,768 100,220,018 888,355,000 884,432,262 881,529,710 677,807,109 674,188,000 665,147,042 558,009,701 557,891,574 554,331,164
Resi dential Single Family Homes Demolition Footing & Foundation Apartments & Condos Other Residential Structures Garages & Carports Res Rmdl, Addn, Int Fin Reroof Residential Total Residential Const Commercial	Permits	emits over \$10,01 Value \$16,777,145 \$339,931 \$36,300 \$120,692,840 \$98,000 \$626,522 \$11,834,209 \$221,000 \$150,735,968 Value	Units 74 0 0 514 0 0 0 0 0 0	47 48 49 50 51 52 53 54 55	R Fleming Const Paul Emmerich Const City Homes LLC JMS Custom Homes Summit Custom Stonegate Builders Creative Homes Inc TC Const Pietsch Builders Inc Mnnes Garage and Carr Year-to-Date 1	9 13 3 10 1 8 10 15 10 15 10 oota	\$3,348,479 \$3,195,517 \$3,130,722 \$3,036,683 \$3,000,000 \$2,974,775 \$2,960,948 \$2,868,400 \$2,857,391	4 RJ Ryan Const 5 Mcgough Const 6 Independent School 7 Gardner Builders 8 MA Mortenson 9 Adoltson & Peterson 10 RJM Const 11 Jorgenson Const 12 RJM Const 13 Ryan Companies 14 Mcgough Const 15 Shaw Lundquist 16 Knutson Const 17 Greiner Const	24 \$1 42 \$1 78 \$1 1 \$87 48 \$1 16 \$1 34 \$40 31 \$5 8 \$3 38 \$3 28	103,781,768 100,220,018 888,355,000 884,432,262 881,529,710 877,180,700 655,147,042 558,009,701 557,891,574 543,331,164 845,111,800 841,208,316 839,215,380
Residential Single Family Homes Demolition Footing & Foundation Apartments & Condos Other Residential Structures Garages & Carports Res Rmdl, Addn, Int Fin Reroof Residential Total Residential Const Commercial Offices/Banks/R&D/Professional	Permits	ermits over \$10,00 Value \$16,777,145 \$389,931 \$36,300 \$120,692,840 \$98,000 \$626,522 \$11,834,209 \$281,000 \$150,735,968	Units 74 0 0 514 0 0 0 518 588 Units 0	47 48 49 50 51 52 53 54 55	R Fleming Const Paul Emmerich Const City Homes LLC JMS Custom Homes LLC Summit Custom Stonegate Builders Creative Homes Inc TC Const Pietsch Builders Inc Minnes Garage and Carp Year-to-Date 1 Builder	9 13 3 10 1 8 10 15 10 15 10 oota port Bui	\$3,348,479 \$3,195,517 \$3,130,722 \$3,036,683 \$3,000,000 \$2,974,775 \$2,960,948 \$2,868,400 \$2,857,391 Iders 18	4 RJ Ryan Const 5 Mcgough Const 6 Independent School 7 Gardner Builders 8 MA Mortenson 9 Adolfson 8 Peterson 10 RJM Const 11 Jorgenson Const 12 RJM Const 13 Ryan Companies 14 Mcgough Const 15 Shaw Lundquist 16 Knutson Const 17 Greiner Const 18 Benite Const	24 \$1 78 \$1 78 \$1 87 \$1 87 \$1 10 \$3 40 \$3 31 \$5 8 \$3 38 \$3 28 79	103,781,768 100,220,018 888,355,000 884,432,262 881,529,710 574,188,000 665,147,042 558,009,701 557,891,574 4545,111,800 841,208,316 849,208,318
Residential Single Family Homes Demolition Footing & Foundation Apartments & Condos Other Residential Structures Garages & Carports Res Rmd, Addn, Int Fin Reroof Residential Total Residential Const Commercial Offices/Banks/R&D/Professional Demolition (Commercial)	Permits	emits over \$10,00 Value \$16,777,145 \$389,931 \$36,300 \$120,692,840 \$98,000 \$626,522 \$11,834,209 \$281,000 \$150,735,968 Value \$72,000 \$306,045	Units 74 0 0 0 514 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	47 48 49 50 51 52 53 54 55	R Fleming Const Paul Emmerich Const City Homes LLC JMS Custom Homes Summit Custom Stonegate Builders Creative Homes Inc TC Const Minnes Garage and Carr Year-to-Date 1 Builder Minnespols Garage	9 13 3 10 1 8 10 15 10 15 10 oota	\$3,348,479 \$3,195,517 \$3,190,722 \$3,036,683 \$3,000,000 \$2,974,775 \$2,960,948 \$2,868,400 \$2,857,391 Iders 18 Value \$1,923,088	4 RJ Ryan Const 5 Mcgough Const 6 Independent School 7 Gardner Builders 8 MA Mortenson 9 Adoltson & Peterson 10 RJM Const 11 Jorgenson Const 12 RJM Const 13 Ryan Companies 14 Mcgough Const 15 Shaw Lundquist 16 Knulson Const 17 Greiner Const 18 Benike Const 18 Benike Const	24 \$1 42 \$1 78 \$1 87 \$9 48 \$1 10 \$3 40 \$3 31 \$5 8 \$3 8 \$3 28 \$7 1	103,781,768 100,220,018 888,355,000 884,432,262 881,529,710 777,807,109 774,188,000 665,147,042 558,009,701 557,891,574 8445,111,800 841,208,316 339,215,380 339,042,792
Resi dential Single Family Homes Demolition Footing & Foundation Apartments & Condos Other Residential Structures Garages & Carports Res Rmdl, Addn, Int Fin Reroof Residential Total Residential Const Commercial Offices/Banks/R&D/Professional Demolition (Commercial)	Permits 74 8 4 2 4 17 256 4 369 Permits 1 3 3	emits over \$10,0 Value \$16,777,145 \$389,931 \$36,300 \$120,692,840 \$98,000 \$626,522 \$11,834,209 \$281,000 \$150,735,968 Value \$72,000	Units 74 0 0 514 0 0 518 0 0 0 518 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	47 48 49 50 51 52 53 54 55	R Fleming Const Paul Emmerich Const City Homes LLC JMS Custom Homes LLC Summit Custom Stonegate Builders Creative Homes Inc TC Const Pietsch Builders Inc Minnes Garage and Carp Year-to-Date 1 Builder	9 13 3 10 1 8 10 15 10 oota oort Bui 1/28/20 ermits 93	\$3,348,479 \$3,195,517 \$3,130,722 \$3,036,683 \$3,000,000 \$2,974,775 \$2,960,948 \$2,868,400 \$2,857,391 Iders 18	4 RJ Ryan Const 5 Mcgough Const 6 Independent School 7 Gardner Builders 8 MA Mortenson 9 Adolfson 8 Peterson 10 RJM Const 11 Jorgenson Const 12 RJM Const 13 Ryan Companies 14 Mcgough Const 15 Shaw Lundquist 16 Knutson Const 17 Greiner Const 18 Benite Const	24 \$1 42 \$1 78 \$1 87 \$9 48 \$1 10 \$3 40 \$3 31 \$5 8 \$3 8 \$3 28 \$7 1	103,781,768 100,220,018 888,355,000 884,432,262 881,529,710 777,807,109 774,188,000 665,147,042 558,009,701 557,891,574 554,331,164 845,111,800 841,208,316 339,215,380 339,042,792
Residential Single Family Homes Demolition Footing & Foundation Apartments & Condos Other Residential Structures Garages & Carports Res Rmdl, Addn, Int Fin Reroof Residential Total Residential Const Commercial Offices/Banks/R&D/Professional Demolition (Commercial) Grading & Dust (Commercial) Footing & Foundation	Permits	emits over \$10,00 Value \$16,777,145 \$389,931 \$36,300 \$120,692,840 \$98,000 \$626,522 \$11,834,209 \$281,000 \$150,735,968 Value \$72,000 \$306,045 \$659,000 \$93,000	Units 74 0 0 514 0 0 518 Units 0 0 0 0 0 0 0 0 0 0 0 0 0	47 48 49 50 51 52 53 54 55	R Fleming Const Paul Emmerich Const City Homes LLC JMS Custom Homes Summit Custom Stonegate Builders Creative Homes Inc TC Const Pietsch Builders Inc Minnes Garage and Carr Year-to-Date 1 Builder Minneapols Garage Sussel Corp Biennan Companies	9 13 3 10 1 8 8 10 15 10 oota wort Bui 1/28/20 ermits 93 85	\$3,348,479 \$3,195,517 \$3,130,722 \$3,036,683 \$3,000,000 \$2,974,775 \$2,960,948 \$2,868,400 \$2,857,391 Iders 18 Value \$1,923,088 \$1,711,019 \$880,500	4 RJ Ryan Const 5 Mcgough Const 6 Independent School 7 Gardner Builders 8 MA Mortenson 9 Adoltson & Peterson 10 RJM Const 11 Jorgenson Const 12 RJM Const 13 Ryan Companies 14 Mcgough Const 15 Shaw Lundquist 16 Knutson Const 17 Greiner Const 18 Benike Const 18 Benike Const 19 North Loop Partners 20 Terra General	24 \$1 42 \$1 78 \$1 1 \$87 \$9 48 \$9 10 \$31 \$9 31 \$9 38 \$9 79 \$9 1 \$9 19 \$9	103,781,768 100,220,018 888,355,000 884,432,262 881,529,710 77,807,109 674,188,000 665,147,042 558,009,701 557,891,574 554,331,164 545,111,800 641,208,316 339,215,380 339,042,792
Resi dential Single Family Homes Demolition Footing & Foundation Apartments & Condos Other Residential Structures Garages & Carports Res Rmdi, Addn, Int Fin Reroof Residential Total Residential Const Commercial Offices/Banks/R&D/Professional Demolition (Commercial) Grading & Dust (Commercial) Footing & Foundation Retail/V/hsi/Dining/Personal	Permits	emits over \$10,00 Value \$16,777,145 \$339,931 \$36,300 \$120,692,840 \$98,000 \$626,522 \$11,834,209 \$281,000 \$150,735,968 Value \$72,000 \$306,045 \$659,000 \$12,500,000	Units 74 0 0 0 514 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	47 48 49 50 51 52 53 54 55	R Fleming Const Paul Emmerich Const City Homes LLC JMS Custom Homes Summit Custom Stonegate Builders Creative Homes Inc TC Const Pietsch Builders Inc Minnes Garage and Carr Year-to-Date 1 Builder Builder Garage Corp Biennan Companies Westem Const Inc Eagle Building Co	9 13 3 10 1 1 8 8 10 15 10 ort Bui 1/28/20 emits 93 85 1	\$3,348,479 \$3,195,517 \$3,130,722 \$3,036,683 \$3,000,000 \$2,974,775 \$2,960,948 \$2,868,400 \$2,857,391 Iders 18 Value \$1,923,088 \$1,771,019 \$880,500 \$481,959 \$291,515	4 RJ Ryan Const 5 Mcgough Const 6 Independent School 7 Gardner Builders 8 MA Mortenson 9 Adoltson & Peterson 10 RJM Const 11 Jorgenson Const 12 RJM Const 13 Ryan Companies 14 Mcgough Const 15 Shaw Lundquist 16 Knulson Const 17 Greiner Const 18 Benike Const 18 Benike Const	24 \$1 42 \$1 78 \$1 1 \$3 87 \$3 48 \$1 16 \$3 16 \$3 40 \$3 31 \$3 5 \$8 38 \$3 28 \$3 79 \$1 19 \$5 55 55 55	103,781,768 100,220,018 888,355,000 884,432,262 881,529,710 777,807,109 774,188,000 665,147,042 558,009,701 557,891,574 554,331,164 845,111,800 841,208,316 339,215,380 339,042,792
Resi dential Single Family Homes Demolition Footing & Foundation Apartments & Condos Other Residential Structures Garages & Carports Res Rmdl, Addn, Int Fin Reroof Residential Total Residential Const Commercial Offices/Banks/R&D/Professional Demolition (Commercial) Footing & Foundation Retail/Whsi/Dining/Personal Other Non-Residential Buildings	Permits	emits over \$10,00 Value \$16,777,145 \$389,931 \$36,300 \$120,692,840 \$98,000 \$626,522 \$11,834,209 \$281,000 \$150,735,968 Value \$72,000 \$306,045 \$659,000 \$93,000 \$12,500,000 \$12,5	Units 74 0 0 0 514 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	47 48 49 50 51 52 53 54 55	R Fleming Const Paul Emmerch Const Otly Homes LLC JMS Custom Homes Summit Custom Stonegate Builders Creative Homes inc TC Const Pielsch Builders Inc Minnes Garage and Carr Year-to-Date 1 Builder Minnespols Garage Minnespols Garage Minnespols Garage Minnespols Garage Minnespols Garage Minnespols Garage Description Minnespols Garage Minnespols Garage Uses Corp Brennan Companies Westem Const Inc Eagle Building Co Built Right	9 13 3 10 1 8 10 15 10 oota oota oota oota 93 85 1 22 5 1	\$3,348,479 \$3,195,517 \$3,195,517 \$3,190,722 \$3,036,683 \$3,000,000 \$2,974,775 \$2,960,948 \$2,868,400 \$2,857,391 Iders 18 Value \$1,923,088 \$1,771,019 \$880,500 \$481,959 \$291,515 \$240,000	4 RJ Ryan Const 5 Mcgough Const 6 Independent School 7 Gardner Builders 8 MA Mortenson 9 Adollson & Peterson 10 RJM Const 11 Jorgenson Const 12 RJM Const 13 Ryan Companies 14 Mcgough Const 15 Shaw Lundquist 16 Knutson Const 17 Greiner Const 18 Benike Const 19 North Loop Partners 20 Terra General Minnes Owner-Bu Year-to-Date*	24 \$1 42 \$1 78 \$1 1 \$3 87 \$2 48 \$1 16 \$3 16 \$3 40 \$3 31 \$2 8 \$3 79 \$3 19 \$3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	103,781,768 100,220,018 888,355,000 884,432,262 881,529,710 577,807,109 574,188,000 574,188,000 576,915,762 554,331,164 554,331,164 554,331,164 554,331,164 554,331,164 554,331,164 554,331,164 554,331,164 554,331,164 554,331,164
Residential Single Family Homes Demolition Footing & Foundation Apartments & Condos Other Residential Structures Garages & Carports Res Rmdi, Addn, Int Fin Reroof Residential Total Residential Const Commercial Offices/Banks/R&D/Professional Demolition (Commercial) Grading & Dust (Commercial) Footing & Foundation Retail/Whsi/Dining/Personal Other Non-Residential Buildings Comm Structures Other Than	Permits	emits over \$10,00 Value \$16,777,145 \$339,931 \$36,300 \$120,692,840 \$98,000 \$626,522 \$11,834,209 \$281,000 \$150,735,968 Value \$569,000 \$306,045 \$659,000 \$5,519,914 \$68,852	Units 74 0 0 0 514 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	477 488 499 500 511 522 533 544 555	R Fleming Const Paul Emmerich Const City Homes LLC JMS Custom Homes Summit Custom Stonegate Builders Creative Homes Inc TC Const Pietsch Builders Inc Minnes Garage and Carp Year-to-Date 1 Builder PMinneapols Garage Sussel Copp Brennan Companies Westem Const Inc Eagle Building Co Built Right Jack The Carpenter	9 13 3 10 1 8 10 15 10 0 0 0 0 0 0 1 1/2 8/20 emits 93 85 1 22 5	\$3,348,479 \$3,195,517 \$3,130,722 \$3,036,683 \$3,000,000 \$2,974,775 \$2,960,948 \$2,868,400 \$2,857,391 Iders 18 Value \$1,923,088 \$1,711,019 \$880,500 \$481,959 \$291,515 \$240,000 \$161,387	4 RJ Ryan Const 5 Mcgough Const 6 Independent School 7 Gardner Builders 8 MA Mortenson 9 Adolfson & Peterson 10 RJM Const 11 Jorgenson Const 12 RJM Const 13 Ryan Companies 14 Mcgough Const 15 Shaw Lundquist 16 Knutson Const 17 Greiner Const 18 Benike Const 19 North Loop Partners 20 Terra General Minnes Owner-Bu Year-Lo-Date Construction Type	24 \$1 42 \$1 78 \$1 1 \$ 87 \$3 48 \$1 6 \$ 10 \$3 40 \$3 31 \$3 5 \$3 8 \$3 28 \$3 79 \$3 19 \$3 socta uilders Permits	103,781,768 103,781,768 103,20,018 103,20,018 103,432,262 104,74,180 105,74,180 106,74,180 106,74,180 107,80
Resi dential Single Family Homes Demolition Footing & Foundation Apartments & Condos Other Residential Structures Garages & Carports Res Rmdl, Addn, Int Fin Reroof Residential Total Residential Const Commercial Offices/Banks/R&D/Professional Demolition (Commercial) Grading & Dust (Commercial) Footing & Foundation Retail/Whst/Dining/Personal Other Non-Residential Buildings Comm Structures Other Than Comm Rmdl, Addn, Int Fin	Permits	emits over \$10,00 Value \$16,777,145 \$389,931 \$36,300 \$120,692,840 \$626,522 \$11,834,209 \$281,000 \$150,735,968 Value \$72,000 \$306,045 \$659,000 \$93,000 \$12,500,000 \$5,519,914 \$68,852 \$31,404,876 \$31,404,876	Units 74 0 0 514 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	47 48 49 50 51 52 53 54 55 1 2 3 4 4 5 6 6 7 8	R Fleming Const Paul Emmerch Const Oty Homes LLC JMS Custom Homes Summit Custom Stonegate Builders Creative Homes Inc TC Const Pietsch Builders Inc Minnes Garage and Carr Year-to-Date 1 Builder Minneapols Garage Sussel Corp Brennan Companies Westem Const Inc Eagle Building Co Built Right Jack The Carpenter Ken Heim Repair &	9 13 3 10 1 1 8 10 15 10 oota oort Bui 1/28/20 emits 93 85 1 22 5 1 8	\$3,348,479 \$3,195,517 \$3,195,517 \$3,130,722 \$3,036,683 \$3,000,000 \$2,974,775 \$2,960,948 \$2,868,400 \$2,857,391 Iders Value \$1,923,088 \$1,771,019 \$880,500 \$481,959 \$291,515 \$240,000 \$161,387 \$160,000	4 RJ Ryan Const 5 Mcgough Const 6 Independent School 7 Gardner Builders 8 MA Mortenson 9 Adolfson 8 Peterson 10 RJM Const 11 Jorgenson Const 12 RJM Const 13 Ryan Companies 14 Mcgough Const 15 Shaw Lundquist 16 Knutson Const 17 Greiner Const 18 Benike Const 19 North Loop Partners 20 Terra General Minnes Owner-Bu Year-to-Dafe Construction Type 1 Single Family	24 \$1 42 \$1 78 \$1 1 \$3 87 \$3 48 \$3 16 \$3 10 \$3 40 \$3 31 \$3 5 \$3 8 \$3 31 \$3 1 \$3 1 \$3 28 \$3 79 \$3 1 \$3 1 \$3 28 \$3 79 \$3 28 \$3 3	103,781,768 103,781,768 103,781,768 103,781,768 103,781,781 103,781 10
Residential Single Family Homes Demollition Footing & Foundation Apartments & Condos Other Residential Structures Garages & Camports Res Rmdl, Addn, Int Fin Reroof Residential Total Residential Const Commercial Offices/Banks/R&D/Professional Demollition (Commercial) Grading & Dust (Commercial) Footing & Foundation Retail/Whsi/Dining/Personal Other Non-Residential Buildings Comm Structures Other Than Comm Rmdl, Addn, Int Fin Reroof Commercial	Permits	emits over \$10,00 Value \$16,777,145 \$389,931 \$36,300 \$120,692,840 \$98,000 \$626,522 \$11,834,209 \$281,000 \$150,735,968 Value \$72,000 \$306,045 \$659,000 \$93,000 \$12,500,000 \$35,19,914 \$68,852 \$31,404,876 \$988,854	Units 74 0 0 0 514 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	47 48 49 50 51 52 53 54 55 4 55 6 6 7 8 9	R Fleming Const Paul Emmerich Const City Homes LLC JMS Custom Homes LLC Summit Custom Stonegate Builders Creative Homes Inc TC Const Pietsch Builders Inc Minnes Garage and Carr Year-to-Date 1 Builder P Minneapolis Garage Sussel Copp Brennan Companies Sussel Copp Brennan Companies Westem Const Inc Eagle Building Co Built Right Jack The Carpenter Ken Heim Repair & Kel J Walk Inc	9 13 3 10 1 8 10 15 10 oota oota oota oota 93 85 1 22 5 1	\$3,348,479 \$3,195,517 \$3,130,722 \$3,036,683 \$3,000,000 \$2,974,775 \$2,960,948 \$2,868,400 \$2,857,391 Iders 18 Value \$1,923,088 \$1,711,019 \$880,500 \$481,959 \$291,515 \$240,000 \$161,387 \$160,000 \$153,000	4 RJ Ryan Const 5 Mcgough Const 6 Independent School 7 Gardner Builders 8 MA Mortenson 9 Adoltson & Peterson 10 RJM Const 11 Jorgenson Const 12 RJM Const 13 Ryan Companies 14 Mcgough Const 15 Shaw Lundquist 16 Knutson Const 17 Greiner Const 18 Benike Const 18 Benike Const 19 North Loop Partners 20 Terra General Minnes Owner-Bu Year-Lo-Date' Construction Type 1 Single Family 2 Gardnes & Carports	24 \$1 42 \$1 78 \$1 1 \$ 87 \$2 48 \$3 10 \$3 40 \$3 31 \$3 55 8 \$3 28 \$2 19 \$3 socta uliders 111 \$218	103,781,768 103,781,768 103,824,432,262 103,741,880 103,741,880 103,741,880 103,741,880 103,741,880 103,741,880 103,741,880 103,741,881 103,741
Residential Single Family Homes Demolition Footing & Foundation Apartments & Condos Other Residential Structures Garages & Carports Res Rmdi, Addn, Int Fin Reroof Residential Const Commercial Offices/Banks/R&D/Professional Demolition (Commercial) Grading & Dust (Commercial) Grading & Foundation Retail/Whsi/Dining/Personal Other Non-Residential Buildings Comm Structures Other Than Comm Rmdi, Addn, Int Fin Reroof Commercial Total Commercial Const	Permits	emits over \$10,00 Value \$16,777,145 \$339,931 \$36,300 \$120,692,840 \$98,000 \$626,522 \$11,834,209 \$281,000 \$150,735,968 Value \$306,045 \$659,000 \$12,500,000 \$5,519,914 \$68,852 \$31,404,876 \$988,854	Units 74 0 0 0 514 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	47 48 49 50 51 52 53 54 55 1 2 3 4 4 5 6 7 7 8 9	R Fleming Const Paul Emmento Const Otyl Homes LLC JMS Custom Homes Summit Custom Stonegate Builders Creative Homes Inc TC Const Pietsch Builders Inc Minnes Garage and Carr Year-Lo-Date 1 Builder Minneapols Garage Sussel Corp Brennan Companies Westem Const Inc Eagle Building Co Built Right Jack The Carpenter Ken Heim Repair & KJ Walk Inc Personal Pride	9 13 3 10 1 1 8 10 15 10 oota oota 93 85 1 22 5 1 8 1	\$3,348,479 \$3,195,517 \$3,195,517 \$3,130,722 \$3,036,683 \$3,000,000 \$2,974,775 \$2,960,948 \$2,868,400 \$2,868,400 \$1,923,088 \$1,711,019 \$80,500 \$481,959 \$2,91,515 \$240,000 \$161,387 \$160,000 \$153,000	4 RJ Ryan Const 5 Mcgough Const 6 Independent School 7 Gardner Builders 8 MA Mortenson 9 Adoltson & Peterson 10 RJM Const 11 Jorgenson Const 12 RJM Const 13 Ryan Companies 14 Mcgough Const 15 Shaw Lundquist 16 Knutson Const 17 Greiner Const 18 Benike Const 19 North Loop Partners 20 Terra General Minner Owner-Bu Year-Io-Date 1 Single Family 2 Garages & Carports 3 Res Rmdi, Addn, Int	24 \$1 42 \$7 78 \$1 1 \$ 87 \$8 87 \$8 10 \$3 48 \$9 10 \$3 34 \$3 40 \$3 31 \$9 5 8 \$9 31 \$9 1 \$9 8 8 11 \$9 8 8 11 \$9 11 \$9 8 8 11 \$1 11 \$9 218 218 218 218 218 218 218	103,781,788 103,781,788 1888,355,000 1888,355,000 1884,432,262 1881,529,710 1877,807,109 1874,188,000 1857,807,109 1857,807,109 1857,807,507 1857,807 1854,321,164 1854,5111,800 1854,201,201 1854,201,201 1854,201,201 1854,201,201 1854,201,201 1854,201,201 1854,201,201 1854,201,201 1854,201,201 1854,201,201 1854,201,201 1854,201,201 1854,201,201 1854,201,201 1854,201,201 1854,201 1854,201 1854,201 1854,201 1855,201
Resi dential Single Family Homes Demolition Footing & Foundation Apartments & Condos Other Residential Structures Garages & Carports Res Rmdl, Addn, Int Fin Reroof Residential Total Residential Const Commercial Offices/Banks/R&D/Professional Demolition (Commercial) Footing & Foundation Retail/Whst/Dining/Personal Other Non-Residential Buildings Comm Structures Other Than Comm Rmdl, Addn, Int Fin Reroof Commercial Total Commercial Total Commercial	Permits 74 8 4 4 2 4 17 256 369 Permits 1 3 5 1 6 2 97 1 134 Permits	emits over \$10,00 Value \$16,777,145 \$389,931 \$36,300 \$120,692,840 \$626,522 \$11,834,209 \$281,000 \$150,735,968 Value \$72,000 \$306,045 \$659,000 \$93,000 \$12,500,000 \$12,501,9014 \$68,852 \$31,404,876 \$988,854 \$51,612,544 Value	Units 74 0 0 514 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	47 48 49 50 51 52 53 54 55 1 2 3 4 4 5 6 7 7 8 9	R Fleming Const Paul Emmerich Const City Homes LLC JMS Custom Homes LLC Summit Custom Stonegate Builders Creative Homes Inc TC Const Pietsch Builders Inc Minnes Garage and Carr Year-to-Date 1 Builder P Minneapolis Garage Sussel Copp Brennan Companies Sussel Copp Brennan Companies Westem Const Inc Eagle Building Co Built Right Jack The Carpenter Ken Heim Repair & Kel J Walk Inc	9 13 3 10 1 1 8 10 15 10 oota oort Bui 1/28/20 emits 93 85 1 22 5 1 8	\$3,348,479 \$3,195,517 \$3,130,722 \$3,036,683 \$3,000,000 \$2,974,775 \$2,960,948 \$2,868,400 \$2,857,391 Iders 18 Value \$1,923,088 \$1,711,019 \$880,500 \$481,959 \$291,515 \$240,000 \$161,387 \$160,000 \$153,000	4 RJ Ryan Const 5 Mcgough Const 6 Independent School 7 Gardner Builders 8 MA Mortenson 9 Adoltson & Peterson 10 RJM Const 11 Jorgenson Const 12 RJM Const 13 Ryan Companies 14 Mcgough Const 15 Shaw Lundquist 16 Knutson Const 17 Greiner Const 18 Benike Const 18 Benike Const 19 North Loop Partners 20 Terra General Minnes Owner-Bu Year-Lo-Date' Construction Type 1 Single Family 2 Gardnes & Carports	24 \$1 42 \$1 78 \$1 1 \$ 87 \$2 48 \$3 10 \$3 40 \$3 31 \$3 55 8 \$3 28 \$2 19 \$3 socta uliders 111 \$218	103,781,788 103,781,788 1888,355,000 1888,355,000 1884,432,262 1881,529,710 1877,807,109 1874,188,000 1857,807,109 1857,807,109 1857,807,507 1857,807 1854,321,164 1854,5111,800 1854,201,201 1854,201,201 1854,201,201 1854,201,201 1854,201,201 1854,201,201 1854,201,201 1854,201,201 1854,201,201 1854,201,201 1854,201,201 1854,201,201 1854,201,201 1854,201,201 1854,201,201 1854,201 1854,201 1854,201 1854,201 1855,201
Residential Single Family Homes Demolition Footing & Foundation Apartments & Condos Other Residential Structures Garages & Carports Res Rmdl, Addn, Int Fin Reroof Residential Total Residential Const Commercial Offices/Banks/R&D/Professional Demolition (Commercial) Grading & Dust (Commercial) Footing & Foundation Retall/Whs/IDining/Personal Other Non-Residential Buildings Comm Structures Other Than Comm Rmdl, Addn, Int Fin Reroof Commercial Total Commercial Const Solar	Permits 74 8 4 2 4 17 256 4 369 Permits 1 3 3 5 5 1 6 2 97 16 134 Permits 11	emits over \$10,00 Value \$16,777,145 \$389,931 \$36,300 \$120,692,840 \$98,000 \$626,522 \$11,834,209 \$281,000 \$150,735,968 Value \$72,000 \$306,045 \$659,000 \$93,000 \$12,500,000 \$93,100 \$5,19,914 \$68,852 \$31,404,876 \$988,854 \$51,612,544 Value \$169,131	Units 74 0 0 0 514 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	47 48 49 50 51 52 53 54 55 1 2 3 4 4 5 6 7 7 8 9	R Fleming Const Paul Emmento Const Otyl Homes LLC JMS Custom Homes Summit Custom Stonegate Builders Creative Homes Inc TC Const Priets Builders Inc Minnes Garage and Carr Year-10-Date 1 Builder Minneapols Garage Sussel Corp Brennan Companies Westem Const Inc Eagle Building Co Built Right Jack The Carpenter Ken Heim Repair & KG J Walk Inc Personal Pride Anderson Reda Inc	9 13 3 10 1 1 8 10 15 10 15 10 15 10 15 10 22 5 1 1 8 8 5 1 1 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$3,348,479 \$3,195,517 \$3,195,517 \$3,130,722 \$3,036,683 \$3,000,000 \$2,974,775 \$2,960,948 \$2,868,400 \$2,868,400 \$1,923,088 \$1,711,019 \$80,500 \$481,959 \$2,91,515 \$240,000 \$161,387 \$160,000 \$153,000	4 RJ Ryan Const 5 Mcgough Const 6 Independent School 7 Gardner Builders 8 MA Mortenson 9 Adolfson & Peterson 10 RJM Const 11 Jorgenson Const 12 RJM Const 13 Ryan Companies 14 Mcgough Const 15 Shaw Lundquist 16 Knutson Const 17 Greiner Const 18 Benike Const 19 North Loop Partners 20 Terra General Minnes Owner-Bu Year-to-Date* Construction Type 1 Single Family 2 Garages & Carports 3 Res Rmdl, Addn, Int 4 Commercial	24 \$1 42 \$7 78 \$1 1 \$ 87 \$8 87 \$8 10 \$3 48 \$9 10 \$3 34 \$3 40 \$3 35 \$8 28 \$3 79 \$9 1 \$9 28 28 \$1 11/28/2018 Permits 111 \$2 218 1701 \$1	103,781,788 103,781,788 1888,355,000 1888,355,000 1884,432,262 1881,529,710 1877,807,109 1874,188,000 1857,807,109 1857,807,109 1857,807,507 1857,807 1854,321,164 1854,5111,800 1854,201,201 1854,201,201 1854,201,201 1854,201,201 1854,201,201 1854,201,201 1854,201,201 1854,201,201 1854,201,201 1854,201,201 1854,201,201 1854,201,201 1854,201,201 1854,201,201 1854,201,201 1854,201 1854,201 1854,201 1854,201 1855,201
Residential Single Family Homes Demolition Footing & Foundation Apartments & Condos Other Residential Structures Garages & Carports Res Rmd, Addn, Int Fin Reroof Residential Total Residential Const Commercial Offices/Banks/R&D/Professional Demolition (Commercial) Grading & Dust (Commercial) Footing & Foundation Retail/Whsi/Dining/Personal Other Non-Residential Buildings Comm Structures Other Than Comm Rmd, Addn, Int Fin Reroof Commercial Total Commercial Const Solar Alternative Residential Energy Alternative Commercial Energy	Permits 74 8 4 4 2 4 17 256 4 369 Permits 1 3 3 5 1 6 2 97 16 134 Permits 1 3	emits over \$10,00 Value \$16,777,145 \$339,931 \$36,300 \$120,692,840 \$98,000 \$66,522 \$11,834,209 \$281,000 \$150,735,968 Value \$72,000 \$306,045 \$659,000 \$12,500,000 \$5,519,914 \$68,852 \$31,404,876 \$988,854 \$51,612,544 Value \$169,131 \$36,120	Units 74 0 0 0 514 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	47 48 49 50 51 52 53 54 55 1 2 3 4 4 5 6 7 7 8 9	R Fleming Const Paul Emmerch Const Oly Homes LLC JMS Custom Homes Summit Custom Stonegate Builders Creative Homes Inc TC Const Pletsch Builders Inc Minnes Garage and Carr Year-Lo-Date 1 Builder Minneapols Garage Sussed Corp Brennan Companies Const Inc Eagle Building Co Built Right Jack The Carpenter Ken Heim Repair & KJ Walk Inc Personal Pride Anderson Reda Inc Minnes Residential II	9 13 3 10 1 1 8 10 10 11 10 10 10 10 10 10 10 10 10 10	\$3,348,479 \$3,195,517 \$3,195,517 \$3,130,722 \$3,036,638 \$3,000,000 \$2,974,775 \$2,960,948 \$2,868,400 \$2,868,400 \$1,923,088 \$1,711,019 \$880,500 \$481,959 \$291,515 \$240,000 \$153,000 \$150,000	4 RJ Ryan Const 5 Mcgough Const 6 Independent School 7 Gardner Builders 8 MA Mortenson 9 Adolfson 8 Peterson 10 RJM Const 11 Jorgenson Const 12 RJM Const 13 Ryan Companies 14 Mcgough Const 15 Shaw Lundquist 16 Knutson Const 17 Greiner Const 18 Benike Const 19 North Loop Partners 20 Terra General Minnes Owner-Bu Year-to-Date Construction Type 1 Single Family 2 Garages & Carports 3 Res Rmdi, Addn, Int 4 Commercial Minnes Commercial	24 \$1 78 \$1 78 \$1 78 \$1 19 \$1 18 \$1 18 \$1 19 \$1 11 \$1	103,781,768 100,220,018 1888,355,000 1888,355,000 1881,529,710 178,77,807,100 178,74,118,000 178
Residential Single Family Homes Demolition Footing & Foundation Apartments & Condos Other Residential Structures Garages & Carports Res Rmdl, Addn, Int Fin Reroof Residential Total Residential Const Commercial Offices/Banks/R&D/Professional Demolition (Commercial) Footing & Foundation Retail/Whst/Dining/Personal Other Non-Residential Buildings Comm Structures Other Than Comm Rmdl, Addn, Int Fin Reroof Commercial Total Commercial Total Commercial Alternative Residential Energy Alternative Residential Energy Total Solar Const	Permits 74 8 4 4 27 4 177 256 4 369 Permits 3 3 5 1 6 2 97 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	emits over \$10,00 Value \$16,777,145 \$389,931 \$36,300 \$120,692,840 \$98,000 \$626,522 \$11,834,209 \$281,000 \$150,735,968 Value \$72,000 \$306,045 \$659,000 \$33,000 \$12,500,000 \$35,519,914 \$58,852 \$31,404,876 \$988,854 \$51,612,544 \$76 \$988,854 \$351,612,541 \$36,121 \$36,120 \$205,251	Units 74 0 0 0 514 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	47 48 49 50 51 52 53 54 55 1 2 3 4 4 5 6 7 7 8 9	R Fleming Const R Pleming Const Paul Emmerich Const City Homes LLC JMS Custom Homes Summit Custom Stonegate Builders Creative Homes Inc TC Const Pietsch Builders Inc Minnes Garage and Carp Year-to-Date 1 Builder Pe Minneapols Garage Sussel Corp Brennan Companes Westem Const Inc Eagle Building Co Built Right Jack The Carpenter Ken Hern Repair & Kd J Walk Inc Personal Pride Anderson Reda Inc	9 13 3 10 1 1 8 10 10 11 10 10 10 10 10 10 10 10 10 10	\$3,348,479 \$3,195,517 \$3,195,517 \$3,130,722 \$3,036,638 \$3,000,000 \$2,974,775 \$2,960,948 \$2,868,400 \$2,868,400 \$1,923,088 \$1,711,019 \$880,500 \$481,959 \$291,515 \$240,000 \$153,000 \$150,000	4 RJ Ryan Const 5 Mcgough Const 6 Independent School 7 Gardner Builders 8 MA Mortenson 9 Adoltson & Peterson 10 RJM Const 11 Jorgenson Const 12 RJM Const 13 Ryan Companies 14 Mcgough Const 15 Shaw Lundquist 16 Knutson Const 17 Greiner Const 18 Benike Const 19 North Loop Partners 20 Terra General Minnes Vear-Lo-Date Const 10 Grand Const 11 Single Family 2 Garages & Carports 3 Res Rmdl, Addn, Int 4 Commercial	24 \$1 78 \$1 78 \$1 78 \$1 19 \$1 11 \$1	103,781,768 100,220,018 1888,355,000 1888,355,000 1881,529,710 178,77,807,100 178,74,118,000 178
Residential Single Family Homes Demolition Footing & Foundation Apartments & Condos Other Residential Structures Garages & Carports Res Rmd, Addn, Int Fin Reroof Residential Total Residential Const Commercial Offices/Banks/R&D/Professional Demolition (Commercial) Grading & Dust (Commercial) Footing & Foundation Retail/Whsi/Dining/Personal Other Non-Residential Buildings Comm Structures Other Than Comm Rmd, Addn, Int Fin Reroof Commercial Total Commercial Const Solar Alternative Residential Energy Alternative Commercial Energy	Permits 74 8 4 4 2 4 17 256 4 369 Permits 1 3 3 5 1 6 2 97 16 134 Permits 1 3	emits over \$10,00 Value \$16,777,145 \$339,931 \$36,300 \$120,692,840 \$98,000 \$66,522 \$11,834,209 \$281,000 \$150,735,968 Value \$72,000 \$306,045 \$659,000 \$12,500,000 \$5,519,914 \$68,852 \$31,404,876 \$988,854 \$51,612,544 Value \$169,131 \$36,120	Units 74 0 0 0 514 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	47 48 49 50 51 52 53 54 55 1 2 3 3 4 4 5 6 6 7 7 8 9 9 10 11	R Fleming Const Paul Emmertor Const Otly Homes LLC JMS Custom Homes Summit Custom Stonegate Builders Creative Homes Inc TC Const Pietsch Builders Inc Minnes Garage and Carr Year-to-Date 1 Builder Minnespols Carage Minnespols Carage Susset Corp Brennan Companies Builder Builder Builder Minnespols Carage Builder Build	9 13 3 10 1 1 8 10 10 11 10 10 10 10 10 10 10 10 10 10	\$3,348,479 \$3,195,517 \$3,130,722 \$3,036,683 \$3,000,000 \$2,974,775 \$2,960,948 \$2,868,400 \$2,857,391 Iders 18 Value \$1,923,088 \$1,7711,019 \$880,500 \$481,959 \$291,515 \$240,000 \$161,387 \$160,000 \$153,000 \$150,000	4 RJ Ryan Const 5 Mcgough Const 6 Independent School 7 Gardner Builders 8 MA Mortenson 9 Adoltson & Peterson 10 RJM Const 11 Jorgenson Const 12 RJM Const 13 Ryan Companies 14 Mcgough Const 15 Shaw Lundquist 16 Knutson Const 17 Greiner Const 18 Benike Const 18 Benike Const 19 North Loop Partners 20 Terra General Minnes Owner-Bu Year-Lo-Date Const 1 Greiner Const 1 Ringle Family 2 Garages & Carports 3 Res Rmdl, Addn, Int 4 Commercial Week 48 - 11/22/ Builder Builder	24 \$1 78 \$1 78 \$1 78 \$1 10 \$1 87 \$1 10 \$1 87 \$1 10 \$1 10 \$1 11 \$1	103,781,768 100,220,018 1888,355,000 1888,355,000 1898,4432,265 1881,529,710 1877,880,71,198 1874,188,000 1857,881,574 1858,009,701 1857,891,574 1858,009,701 1857,891,574 1858,009,701 1857,891,574 1858,009,701 1857,891,574 1858,009,701 1857,891,574 18539,215,380 1839,245,381 1839,215,380 1839,245,381 1839,215,380 1839,245,381 1835,174,994 1831,279,856 1855,888,170 1844,263,253 1856,607,998 18718
Residential Single Family Homes Demolition Footing & Foundation Apartments & Condos Other Residential Structures Garages & Carports Res Rmdl, Addn, Int Fin Reroof Residential Total Residential Const Commercial Offices/Banks/R&D/Professional Demolition (Commercial) Grading & Dust (Commercial) Footing & Foundation Retail/Whsi/Dining/Personal Other Non-Residential Buildings Comm Structures Other Than Comm Rmdl, Addn, Int Fin Reroof Commercial Total Commercial Total Commercial Attentative Residential Energy Alternative Residential Energy Other Sour Commercial Finergy Atternative Commercial Energy Total Solar Const	Permits 74 8 4 4 27 4 177 256 4 369 Permits 3 3 5 1 6 2 97 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	emits over \$10,00 Value \$16,777,145 \$389,931 \$36,300 \$120,692,840 \$98,000 \$626,522 \$11,834,209 \$281,000 \$150,735,968 Value \$72,000 \$306,045 \$659,000 \$33,000 \$12,500,000 \$35,519,914 \$58,852 \$31,404,876 \$988,854 \$51,612,544 \$76 \$988,854 \$351,612,541 \$36,121 \$36,120 \$205,251	Units 74 0 0 0 514 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	47 48 49 50 51 52 53 54 55 1 2 3 3 4 4 5 6 6 7 7 8 9 9 10 11	R Fleming Const Paul Emmertor Const Otly Homes LLC JMS Custom Homes Summit Custom Stonegate Builders Creative Homes Inc TC Const Pietsch Builders Inc Minnes Garage and Carr Year-to-Date 1 Builder Minnespois Carage Minnespois Carage Susset Corp Brennan Companies Builder	9 13 3 10 1 1 8 10 10 15 10 10 10 10 10 10 10 10 10 10 10 10 10	\$3,348,479 \$3,195,517 \$3,130,722 \$3,036,683 \$3,000,000 \$2,974,775 \$2,960,948 \$2,868,400 \$2,857,391 Iders 18 Value \$1,923,088 \$1,771,019 \$880,500 \$481,959 \$291,515 \$240,000 \$160,000 \$150,000 \$150,000	4 RJ Ryan Const 5 Mcgough Const 6 Independent School 7 Gardner Buildiers 8 MA Mortenson 9 Adolison & Peterson 10 RJM Const 11 Jorgenson Const 12 RJM Const 13 Ryan Companies 14 Mcgough Const 15 Shaw Lundquist 16 Knutson Const 17 Greiner Const 18 Benike Const 19 North Loop Partners 20 Terra General Minnes Owner-Bu Year-to-Date - Construction Type 1 Single Family 2 Garages & Carports 3 Res Rmd, Addn, int 4 Commercial Minnes Commercial Minnes Commercial Minnes Commercial	24 \$1 78 \$1 78 \$1 78 \$1 10 \$1 87 \$1 10 \$1 87 \$1 10 \$1 10 \$1 11 \$1	103,781,768 100,220,018 1888,355,000 1888,355,000 1898,4432,265 1881,529,710 1877,880,71,198 1874,188,000 1857,881,574 1858,009,701 1857,891,574 1858,009,701 1857,891,574 1858,009,701 1857,891,574 1858,009,701 1857,891,574 1858,009,701 1857,891,574 18539,215,380 1839,245,381 1839,215,380 1839,245,381 1839,215,380 1839,245,381 1835,174,994 1831,279,856 1855,888,170 1844,263,253 1856,607,998 18718
Residential Single Family Homes Demolition Footing & Foundation Apartments & Condos Other Residential Structures Garages & Carports Res Rmdl, Addn, Int Fin Reroof Residential Total Residential Const Commercial Offices/Banks/R&D/Professional Demolition (Commercial) Footing & Foundation Retail/Whst/Dining/Personal Other Non-Residential Buildings Comm Structures Other Than Comm Rendl, Addn, Int Fin Reroof Commercial Total Commercial Total Commercial Atternative Residential Energy Atternative Residential Energy Total Solar Const	Permits 74 8 4 4 27 4 177 256 4 369 Permits 3 3 5 1 6 2 97 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	emits over \$10,00 Value \$16,777,145 \$389,931 \$36,300 \$120,692,840 \$98,000 \$626,522 \$11,834,209 \$281,000 \$150,735,968 Value \$72,000 \$306,045 \$659,000 \$33,000 \$12,500,000 \$35,519,914 \$58,852 \$31,404,876 \$988,854 \$51,612,544 \$76 \$988,854 \$351,612,541 \$36,121 \$36,120 \$205,251	Units 74 0 0 0 514 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	11 22 33 44 55 66 77 8 8 9 10 11 1 2 2	R Fleming Const R Pleming Const Paul Emmerich Const City Homes LLC JMS Custom Homes Summit Custom Stonegate Builders Creative Homes Inc TC Const Pietsch Builders Inc Minnes Garage and Carp Year-to-Date 1 Builder Pe Minneapols Garage Sussel Copp Brennan Companies Sussel Copp Brennan Companies Westem Const Inc Eagle Building Co Built Right Jack The Carpenter Ken Heim Repair & Kg J Walk Inc Personal Pride Anderson Reda Inc Minnes Residential I Week 48 - 11/22/I Builder P Doran Const Eagle Building Co	9 13 3 10 1 8 10 10 15 10 10 15 10 10 15 10 10 10 15 10 10 10 10 10 10 10 10 10 10 10 10 10	\$3,348,479 \$3,195,517 \$3,130,722 \$3,036,683 \$3,000,000 \$2,974,775 \$2,960,948 \$2,868,400 \$2,857,391 Iders 18 Value \$1,923,088 \$1,7711,019 \$880,500 \$481,959 \$291,515 \$240,000 \$150,000 \$150,000 \$150,000 \$150,000 \$150,000 \$128/18	4 RJ Ryan Const 5 Mcgough Const 6 Independent School 7 Gardner Builders 8 MA Mortenson 9 Adolfson & Peterson 10 RJM Const 11 Jorgenson Const 12 RJM Const 13 Ryan Companies 14 Mcgough Const 15 Shaw Lundquist 16 Knutson Const 17 Greiner Const 18 Benike Const 18 Benike Const 19 North Loop Partners 20 Terra General Minner Commercial Veck 48 - 11/22/ Builder 1 Lift Const Co Lic 2 Mcgough Const	24 \$1 78 \$1 78 \$1 78 \$1 1 \$3 87 \$3 48 \$3 10 \$3 48 \$3 10 \$3 34 \$3 5 \$3 8 \$3 28 \$3 19 \$3 80 28 \$3 19 \$3 80 28 \$3 19 \$3 80 28 \$3 19 \$3 80 28 \$3 19 \$3 80 28 \$3 11 28 28 28 \$3 19 \$3 80 28 28 \$3 19 \$3 80 28 28 \$3 19 \$3 80 28 28 \$3 19 \$3 80 28 28 \$3 19 \$3 80 28 28 \$3 19 \$3 80 20 20 20 20 20 20 20 20 20 20 20 20 20	103,781,766 100,220,018 1888,355,000 1888,355,000 1888,355,000 1898,4432,265 1881,529,710 1877,880,000 1857,881,572 1858,009,701 1857,881,572 1858,009,701 1857,881,572 1858,009,701 1857,881,572 1858,009,701 1857,881,572 1858,009,701 1859,201 1859
Residential Single Family Homes Demolition Footing & Foundation Apartments & Condos Other Residential Structures Garages & Carports Res Rmdi, Addn, Int Fin Reroof Residential Total Residential Const Commercial Offices/Banks/R&D/Professional Demolition (Commercial) Grading & Dust (Commercial) Footing & Foundation Retail/Whs/Dining/Personal Other Non-Residential Buildings Comm Structures Other Than Comm Rmdi, Addn, Int Fin Reroof Commercial Total Commercial Total Commercial Atternative Residential Energy Alternative Residential Energy Total Solar Const	Permits 74 8 4 4 27 4 177 256 4 369 Permits 3 3 5 1 6 2 97 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	emits over \$10,00 Value \$16,777,145 \$389,931 \$36,300 \$120,692,840 \$98,000 \$626,522 \$11,834,209 \$281,000 \$150,735,968 Value \$72,000 \$306,045 \$659,000 \$33,000 \$12,500,000 \$35,519,914 \$58,852 \$31,404,876 \$988,854 \$51,612,544 \$76 \$988,854 \$351,612,541 \$36,121 \$36,120 \$205,251	Units 74 0 0 0 514 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 2 3 3 4 4 5 5 6 6 7 7 8 9 10 11 1 2 2 3 3	R Fleming Const Paul Emmerch Const Otyl Homes LLC JMS Custom Homes Summit Custom Stonegate Builders Creative Homes Inc TC Const Pielsch Builders Inc Minnes Garage and Carr Year-to-Date 1 Builder Minneapols Garage Sussel Corp Brennan Companies Weslem Const Inc Eagle Building Co Built Right Jack The Carpenter Ken Hem Repair & KJ Walk Inc Personal Pride Anderson Reda Inc Minnes Residential Week 48 - 11/22/1 Builder Putoran Const Eagle Building Co Built Right Jack The Carpenter Ken Hem Repair & KJ Walk Inc Personal Pride Anderson Reda Inc Minnes Residential Week 48 - 11/22/1 Builder Putoran Const Eagle Building Co Putor Personal Pride Anderson Reda Inc Putoran Const Eagle Building Co Putor P	9 13 3 10 1 1 8 10 10 15	\$3,348,479 \$3,195,517 \$3,130,722 \$3,036,683 \$3,000,000 \$2,974,775 \$2,960,948 \$2,868,400 \$2,857,391 Idders Value \$1,923,088 \$1,771,019 \$880,500 \$481,959 \$291,515 \$240,000 \$161,387 \$160,000 \$150,000 \$150,000 \$150,000 \$4,057,451 \$2,768,000	4 RJ Ryan Const 5 Mcgough Const 6 Independent School 7 Gardner Builders 8 MA Mortenson 9 Adollson & Peterson 10 RJM Const 11 Jorgenson Const 13 Ryan Companies 14 Mcgough Const 15 Shaw Lundquist 16 Knutson Const 17 Greiner Const 18 Benike Const 19 North Loop Partners 20 Terra General Minnes Owner-Bu Year-to-Date* Construction Type 1 Single Family 2 Garages & Carports 3 Res Rmdl, Addn, Int 4 Commercial Week 48 - 11/22/ Builder 1 Ltf Const Co Lic 2 Mcgough Const 1 Kraus Anderson	24 \$1 42 \$1 48 \$1 48 \$1 16 \$3 16 \$3 40 \$3 40 \$3 34 \$3 40 \$3 35 \$3 38 \$3 28 \$3 79 \$3 38 \$3 28 \$3 79 \$3 38 \$3 28 \$3 79 \$3 10 218 \$3 20 20 20 20 20 20 20 20 20 20 20 20 20	103,781,766 100,220,018 1888,355,000 1888,355,000 1888,355,000 1891,529,716 177,807,105 187,4188,000 1865,147,042 187,042 188,000 187,891,572 187,042 188,000 187,891,572 187,992 188,725,431 187,1494 188,725,341 189,042,793
Residential Single Family Homes Demolition Footing & Foundation Apartments & Condos Other Residential Structures Garages & Carports Res Rend, Addn, Int Fin Reroof Residential Total Residential Const Commercial Offices/Banks/R&D/Professional Demolition (Commercial) Grading & Dust (Commercial) Footing & Foundation Retail/Whsi/Dining/Personal Other Non-Residential Buildings Comm Structures Other Than Comm Rendi, Addn, Int Fin Reroof Commercial Total Commercial Total Commercial Total Commercial Energy Alternative Residential Energy Alternative Commercial Energy Total Solar Const	Permits 74 8 4 4 27 4 177 256 4 369 Permits 3 3 5 1 6 2 97 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	emits over \$10,00 Value \$16,777,145 \$389,931 \$36,300 \$120,692,840 \$98,000 \$626,522 \$11,834,209 \$281,000 \$150,735,968 Value \$72,000 \$306,045 \$659,000 \$33,000 \$12,500,000 \$35,519,914 \$58,852 \$31,404,876 \$988,854 \$51,612,544 \$76 \$988,854 \$351,612,541 \$36,121 \$36,120 \$205,251	Units 74 0 0 0 514 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	11 55 55 51 52 53 54 55 66 77 8 9 10 11	R Fleming Const R Pleming Const Paul Emmerich Const City Homes LLC JMS Custom Homes Summit Custom Stonegate Builders Creative Homes Inc TC Const Pietsch Builders Inc Minnes Garage and Carp Year-to-Date 1 Builder Per Minneapols Garage Sussel Corp Brennan Companies Sussel Corp Brennan Companie Sussel Corp Brennan Companie Residential Jack The Carpenter Ken Herm Repair & Kg I Walk Inc Personal Pride Anderson Reda Inc Minnes Residential Week 48 - 11/22/ Builder PD Doran Const Eagle Building Co Putte Homes Of Putte Homes Of Put Homes Of PRI HOMES O	9 13 3 100 11 8 100 15 10 10 15 10 10 15 10 10 10 10 10 10 10 10 10 10 10 10 10	\$3,348,479 \$3,195,517 \$3,130,722 \$3,036,683 \$3,000,000 \$2,974,775 \$2,960,948 \$2,868,400 \$2,857,391 Iders 18 Value \$1,923,088 \$1,7711,019 \$880,500 \$481,959 \$291,515 \$240,000 \$161,387 \$160,000 \$153,000 \$150,000 \$5 28/18 Value \$98,300,000 \$150,000	4 RJ Ryan Const 5 Mcgough Const 6 Independent School 7 Gardner Builders 8 MA Mortenson 9 Adoltson & Peterson 10 RJM Const 11 Jorgenson Const 12 RJM Const 13 Ryan Companies 14 Mcgough Const 15 Shaw Lundquist 16 Knutson Const 17 Greiner Const 18 Benike Const 19 North Loop Partners 20 Terra General Minnes Owner-Bit Year-Lo-Date Const 2 Garages & Carports 3 Res Rmdl, Addn, Int 4 Commercial Week 48 - 11/22/J Builder 1 Lift Const Co Lic 2 Mcgough Const 3 Kraus Anderson 4 Greystone Const	24 \$1 78 \$1 78 \$1 78 \$1 78 \$1 1 \$2 87 87 87 87 87 87 87 87 87 97 97 97 97 97 97 97 97 97 97 97 97 97	103,781,768 100,220,018 1888,355,000 1888,355,000 1888,355,000 1897,807,109 177,807,109 1897,41,88,000 1857,431,164 1858,009,701 1857,891,574 1858,009 1854,331,164 1854,331,164 1854,331,164 1854,331,164 1854,331,164 1858,339,042,792 1858,347 1858
Residential Single Family Homes Demolition Footing & Foundation Apartments & Condos Other Residential Structures Garages & Carports Res Rmdi, Addn, Int Fin Reroof Residential Total Residential Const Commercial Offices/Banks/R&D/Professional Demolition (Commercial) Grading & Dust (Commercial) Footing & Foundation Retail/Whs/Dining/Personal Other Non-Residential Buildings Comm Structures Other Than Comm Rmdi, Addn, Int Fin Reroof Commercial Total Commercial Total Commercial Atternative Residential Energy Alternative Residential Energy Total Solar Const	Permits 74 8 4 4 27 4 177 256 4 369 Permits 3 3 5 1 6 2 97 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	emits over \$10,00 Value \$16,777,145 \$389,931 \$36,300 \$120,692,840 \$98,000 \$626,522 \$11,834,209 \$281,000 \$150,735,968 Value \$72,000 \$306,045 \$659,000 \$33,000 \$12,500,000 \$35,519,914 \$58,852 \$31,404,876 \$988,854 \$51,612,544 \$76 \$988,854 \$351,612,541 \$36,121 \$36,120 \$205,251	Units 74 0 0 0 514 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	11 55 55 51 52 53 54 55 66 77 8 9 10 11	R Fleming Const Paul Emmerch Const Otyl Homes LLC JMS Custom Homes Summit Custom Stonegate Builders Creative Homes Inc TC Const Pietsch Builders Inc Minnes Garage and Carr Year-to-Date 1 Builder Minneapols Garage Sussel Corp Brennan Companies Westem Const Inc Eagle Building Co Built Right Jack The Carpenter Ken Heim Repair & KJ Walk Inc Personal Pride Anderson Reda Inc Minnes Residential I Builder Potran Const Logic Building Co During Const Logic Building Co D	9 13 3 10 1 8 8 10 11 128/20 20 15 1	\$3,348,479 \$3,195,517 \$3,130,722 \$3,036,683 \$3,000,000 \$2,974,775 \$2,960,948 \$2,868,400 \$2,857,391 Iders Value \$1,923,888,500 \$481,959 \$291,515 \$240,000 \$153,000 \$150,000 \$150,000 \$4,057,451 \$2,768,000 \$1,216,446 \$2,768,000 \$1,216,446 \$1,197,796	4 RJ Ryan Const 5 Mcgough Const 6 Independent School 7 Gardner Builders 8 MA Mortenson 9 Adolfson 8 Peterson 10 RJM Const 11 Jorgenson Const 12 RJM Const 13 Ryan Companies 14 Mcgough Const 15 Shaw Lundquist 16 Knutson Const 17 Greiner Const 18 Benike Const 19 North Loop Partners 20 Terra General Minnes Owner-Bu Year-to-Date* Construction Type 1 Single Family 2 Garages 8 Carports 3 Res Rmdl, Addn, Int 4 Commercial Week 48 - 11/22/ Builder 1 Ltf Const Co Lic 2 Mcgough Const 3 Kraus Anderson 4 Greystone Const 5 Met Const	24 \$1 42 \$1 78 \$1 78 \$1 1 \$3 87 \$3 16 \$3 10 \$3 34 \$9 28 \$3 10 \$3 38 \$9 28 \$3 19 \$3 80 50ta 11128/2018 Permits 1112 \$0ta	103,781,768 100,220,018 1888,355,000 1888,355,000 1888,355,000 1874,188,000 1874,188,000 1874,188,000 1874,188,000 1874,188,000 1874,188,000 1874,188,000 1878,1878,1878,1878,1878,1878,1878,1878
Resi dential Single Family Homes Demolition Footing & Foundation Apartments & Condos Other Residential Structures Garages & Carports Res Rmdl, Addn, Int Fin Reroof Residential Total Residential Const Commercial Offices/Banks/R&D/Professional Demolition (Commercial) Footing & Foundation Retail/Whst/Dining/Personal Other Non-Residential Buildings Comm Structures Other Than Comm Rmdl, Addn, Int Fin Reroof Commercial Total Commercial Total Commercial Alternative Residential Energy Alternative Residential Energy Total Solar Const	Permits 74 8 4 4 27 4 177 256 4 369 Permits 3 3 5 1 6 2 97 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	emits over \$10,00 Value \$16,777,145 \$389,931 \$36,300 \$120,692,840 \$98,000 \$626,522 \$11,834,209 \$281,000 \$150,735,968 Value \$72,000 \$306,045 \$659,000 \$33,000 \$12,500,000 \$35,519,914 \$58,852 \$31,404,876 \$988,854 \$51,612,544 \$76 \$988,854 \$351,612,541 \$36,121 \$36,120 \$205,251	Units 74 0 0 0 514 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	11 12 33 44 55 55 11 22 33 44 55 66 67 78 88 99 10 11 11	R Fleming Const R Fleming Const Paul Emmerich Const City Homes LLC JMS Custom Homes Summit Custom Stonegate Builders Creative Homes Inc TC Const Pietsch Builders Inc Minnes Garage and Carp Year-to-Date 1 Builder Personance Susset Corp Brennan Companies Susset Corp Brennan Companies Susset Corp Brennan Companies Builder Builder Anderson Reda Inc Minnes Residential I Jack The Carpenter Ken Hem Repair & KJ Walk Inc Personal Pride Anderson Reda Inc Minnes Residential I Susset Guston Builder Per Doran Const Eagle Building Co Builder Po Doran Const Eagle Building Co Putle Homes Of D R Hotfon In Build Locale Design Builder Inc Locale Design Builder Inc Locale Design Builder Inc Locale Design Builder Locale Design Builder Inc Locale Design Builder Inc Locale Design Builder Inc Locale Design Builder Inc	9 13 3 3 10 0 1 1 8 10 15 10 10 15 10 10 10 15 10 10 10 10 10 10 10 10 10 10 10 10 10	\$3,348,479 \$3,195,517 \$3,130,722 \$3,036,683 \$3,000,000 \$2,974,775 \$2,960,948 \$2,868,400 \$2,857,391 Iders 18 Value \$1,923,088 \$1,7711,019 \$880,500 \$481,959 \$291,515 \$240,000 \$41,007,451 \$2,768,000 \$4,057,451 \$2,768,000 \$4,057,451 \$2,768,000 \$1,216,446 \$1,197,796 \$1,197,796 \$1,197,796	4 RJ Ryan Const 5 Mcgough Const 6 Independent School 7 Gardner Builders 8 MA Mortenson 9 Adoltson & Peterson 10 RJM Const 11 Jorgenson Const 12 RJM Const 13 Ryan Companies 14 Mcgough Const 15 Shaw Lundquist 16 Knutson Const 17 Greiner Const 18 Benike Const 19 North Loop Partners 20 Terra General Minnes Owner-Bi Year-Lo-alte 'Construction Type 1 Single Family 2 Garages & Carports 3 Res Rmdl, Addn, Int 4 Commercial Week 48 - 11/22/ Builder 1 LIf Const Co Lic 2 Mcgough Const 5 Microscon 4 Greystone Const 5 Met Con Const/Met- 6 Opus Design Build Const 15 Met Con Const/Met- 16 Met Con Const/Met- 17 Lift Const Co Lic 18 Mcgough Const 18 Kraus Anderson 18 Greystone Const 18 Met Con Const/Met- 18 Construction Type 18 Light Const 18 Minnes 18 M	24 \$1 78 \$1 78 \$1 78 \$1 1 \$3 87 \$3 48 \$3 16 \$3 40 \$3 34 \$3 5 \$3 8 \$9 79 \$9 1 \$9 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	103,781,768 100,220,018 1888,355,000 1888,355,000 1888,355,000 1897,4188,000 1857,4188,000 1857,4188,000 1857,4188,000 1857,4188,000 1857,818,000 18
Residential Single Family Homes Demolition Footing & Foundation Apartments & Condos Other Residential Structures Garages & Carports Res Rmdi, Addn, Int Fin Reroof Residential Total Residential Const Commercial Offices/Banks/R&D/Professional Demolition (Commercial) Grading & Dust (Commercial) Footing & Foundation Retail/Whs/Dining/Personal Other Non-Residential Buildings Comm Structures Other Than Comm Rmdi, Addn, Int Fin Reroof Commercial Total Commercial Total Commercial Atternative Residential Energy Alternative Residential Energy Total Solar Const	Permits 74 8 4 4 27 4 177 256 4 369 Permits 3 3 5 1 6 2 97 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	emits over \$10,00 Value \$16,777,145 \$389,931 \$36,300 \$120,692,840 \$98,000 \$626,522 \$11,834,209 \$281,000 \$150,735,968 Value \$72,000 \$306,045 \$659,000 \$33,000 \$12,500,000 \$35,519,914 \$58,852 \$31,404,876 \$988,854 \$51,612,544 \$76 \$988,854 \$351,612,541 \$36,121 \$36,120 \$205,251	Units 74 0 0 0 514 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1 2 2 3 4 4 5 6 6 7 7	R Fleming Const Paul Emmerch Const Oly Homes LLC JMS Custom Homes Summit Custom Stonegate Builders Creative Homes Inc TC Const Pietsch Builders Inc Minnes Garage and Carr Year-Lo-Date 1 Builder Minneapols Garage Sussed Corp Brennan Companies Westem Const Inc Eagle Building Co Built Right Jack The Carpenter Ken Heim Repair & KJ Walk Inc Personal Pride Anderson Reda Inc Minnes Residential I Week 48 - 11/22/1 Builder Doran Const Eagle Building Co Putte Homes Of D R Horton Inc Locale Design Build Hanson Builders Inc	9 13 3 10 1 8 8 10 15 10	\$3,348,479 \$3,195,517 \$3,130,722 \$3,036,635 \$3,000,000 \$2,974,775 \$2,960,948 \$2,868,400 \$2,874,975 \$18 Value \$1,923,088 \$1,711,019 \$880,500 \$481,959 \$291,515 \$240,000 \$150,000 \$150,000 \$150,000 \$150,000 \$1,007,451 \$2,768,000 \$1,216,446 \$2,164,446 \$1,197,796 \$1,104,000 \$1,104,000 \$1,197,796 \$1,104,000 \$1,104,000 \$1,197,796 \$1,104,000 \$1,10	4 RJ Ryan Const 5 Mcgough Const 6 Independent School 7 Gardner Builders 8 MA Mortenson 9 Adolfson 8 Peterson 10 RJM Const 11 Jorgenson Const 12 RJM Const 13 Ryan Companies 14 Mcgough Const 15 Shaw Lundquist 16 Knutson Const 17 Greiner Const 18 Benike Const 19 North Loop Partners 20 Terra General Minnes Owner-Bu Year-to-Date* Construction Type 1 Single Family 2 Garages 8 Carports 3 Res Rmdl, Addn, Int 4 Commercial Week 48 - 11/22/ Builder 1 Liff Const Co Lic 2 Mcgough Const 3 Kraus Anderson 4 Greystone Const 5 Met Con ConstMet- 6 Opus Design Build 7 VIB Properties Lic 7 Construction ConstMet- 6 Opus Design Build 7 VIB Properties Lic	24 \$1 42 \$1 48 \$1 48 \$1 1 \$3 87 \$3 10 \$3 48 \$3 10 \$3 34 \$9 28 \$3 19 \$3 80 \$2 80 \$3 19 \$3 80 \$3 19 \$3 80 \$3 19 \$3 80 \$3 19 \$3 80 \$3 10 \$3 80 \$3 10 \$3 80 \$3 10 \$3 80 \$3 10 \$3 80 \$3 10 \$3 80 \$3 10 \$3 80 \$3 10 \$3 80 \$3 10 \$3 80 \$3 10 \$3 80 \$3 10 \$3 80 \$3 10 \$3 80 \$3 10 \$3 80 \$3 10 \$3 80 \$3 10 \$3 80 \$3 1	103,781,768 100,220,018 1888,3855,000 1888,3855,000 1888,3855,000 1874,188,000 1874,188,000 1874,188,000 1874,188,000 1874,188,000 1874,188,000 1874,188,000 1874,188,000 1874,188,000 1874,188,000 1874,042 1874,
Residential Single Family Homes Demolition Footing & Foundation Apartments & Condos Other Residential Structures Garages & Carports Res Rmdl, Addn, Int Fin Reroof Residential Total Residential Const Commercial Offices/Banks/R&D/Professional Demolition (Commercial) Grading & Dust (Commercial) Footing & Foundation Retail/Whsi/Dining/Personal Other Non-Residential Buildings Comm Structures Other Than Comm Rmdl, Addn, Int Fin Reroof Commercial Total Commercial Total Commercial Attentative Residential Energy Alternative Residential Energy Other Sour Commercial Finergy Atternative Commercial Energy Total Solar Const	Permits 74 8 4 4 27 4 177 256 4 369 Permits 3 3 5 1 6 2 97 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	emits over \$10,00 Value \$16,777,145 \$389,931 \$36,300 \$120,692,840 \$98,000 \$626,522 \$11,834,209 \$281,000 \$150,735,968 Value \$72,000 \$306,045 \$659,000 \$33,000 \$12,500,000 \$35,519,914 \$58,852 \$31,404,876 \$988,854 \$51,612,544 \$76 \$988,854 \$351,612,541 \$36,121 \$36,120 \$205,251	Units 74 0 0 0 514 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	11 22 33 44 55 66 77 8 8	R Fleming Const R Fleming Const Paul Emmerth Const Otly Homes LLC JMS Custom Homes Summit Custom Stonegate Builders Creative Homes Inc TC Const Pielsch Builders Inc Minnes Garage and Carr Year-to-Date 1 Builder Personal Sussel Coap Benance Const Builder Personal Companies Sussel Coap Brennan Companies Builder Builder Personal Pride Minnes Residential Jack The Carpenter Kch Hem Repair & Kch Walk Inc Personal Pride Anderson Reda Inc Minnes Residential Week 48 - 111/217 Builder Per Doran Const Eagle Building Co Putle Homes Of Doran Const Eagle Building Co Putle Homes Of Dr Horton Inc Locale Design Build Harson Builders Inc Refined Remodeling Flannery Const Inc	9 13 3 3 10 1 8 8 10 11 22 2 5 1 1 1 1 1 1 41 8 8 10 11 41 8 3 1 1 7 7	\$3,348,479 \$3,195,517 \$3,130,722 \$3,036,683 \$3,000,000 \$2,974,775 \$2,960,948 \$2,868,400 \$2,857,391	4 RJ Ryan Const 5 Mcgough Const 6 Independent School 7 Gardner Builders 8 MA Mortenson 9 Adoltson & Peterson 10 RJM Const 11 Jorgenson Const 12 RJM Const 13 Ryan Companies 14 Mcgough Const 15 Shaw Lundquist 16 Knutson Const 17 Greiner Const 18 Benike Const 19 North Loop Partners 20 Terra General Minnes Owner-Bu Year-to-Date - Construction Type 1 Single Family 2 Garages & Carports 3 Res Rmd, Addn, Int 4 Commercial Week 48 - 11/22/ Builder 1 Ltf Const Co Lic 2 Mcgough Const 15 Minnes Commercial View Add - 11/22/ Builder 1 Ltf Const Co Lic 2 Mcgough Const 1 Kraus Anderson 1 Greystone Const 1 Met Con ConstMet- 6 Opus Design Build 7 VIB Properties Lic 8 Gardner Builders 1 Gardner Builders 1 Responder School 1	24 \$1 78 \$1 78 \$1 78 \$1 1 \$3 87 \$1 8	103,781,768 100,220,018 1888,355,000 1888,355,000 1888,355,000 1891,4188,000 1865,147,042 1858,009,701 1857,891,574 1858,009 1854,331,164 1854,1208,316 1839,215,380 1839,042,792 1838,725,341 1835,174,994 1831,279,836 1855,888,170 1844,263,253 186,607,988 1878,188,188 1878,188,188 1888,188 1888,188 1888,188 1888,188 1888,188 1888,188 1888,188 1888,188 1888,188 1888,188 1888,188 1888 1888,188 188 188
Residential Single Family Homes Demolition Footing & Foundation Apartments & Condos Other Residential Structures Garages & Carports Res Rmdi, Addn, Int Fin Reroof Residential Total Residential Const Commercial Offices/Banks/R&D/Professional Demolition (Commercial) Grading & Dust (Commercial) Footing & Foundation Retail/Whs/Dining/Personal Other Non-Residential Buildings Comm Structures Other Than Comm Rmdi, Addn, Int Fin Reroof Commercial Total Commercial Total Commercial Atternative Residential Energy Alternative Residential Energy Total Solar Const	Permits 74 8 4 4 27 4 177 256 4 369 Permits 3 3 5 1 6 2 97 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	emits over \$10,00 Value \$16,777,145 \$389,931 \$36,300 \$120,692,840 \$98,000 \$626,522 \$11,834,209 \$281,000 \$150,735,968 Value \$72,000 \$306,045 \$659,000 \$33,000 \$12,500,000 \$35,519,914 \$58,852 \$31,404,876 \$988,854 \$51,612,544 \$76 \$988,854 \$351,612,541 \$36,121 \$36,120 \$205,251	Units 74 0 0 0 514 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 2 3 3 4 4 5 5 6 6 7 7 8 8 9 9 10 11	R Fleming Const Paul Emmerch Const Oly Homes LLC JMS Custom Homes Summit Custom Stonegate Builders Creative Homes Inc TC Const Pietsch Builders Inc Minnes Garage and Carr Year-Lo-Date 1 Builder Minneapols Garage Sussed Corp Brennan Companies Westem Const Inc Eagle Building Co Built Right Jack The Carpenter Ken Heim Repair & KJ Walk Inc Personal Pride Anderson Reda Inc Minnes Residential I Week 48 - 11/22/1 Builder Doran Const Eagle Building Co Putte Homes Of D R Horton Inc Locale Design Build Hanson Builders Inc	9 13 3 10 1 8 8 10 15 10	\$3,348,479 \$3,195,517 \$3,130,722 \$3,036,635 \$3,000,000 \$2,974,775 \$2,960,948 \$2,868,400 \$2,874,975 \$18 Value \$1,923,088 \$1,711,019 \$880,500 \$481,959 \$291,515 \$240,000 \$150,000 \$150,000 \$150,000 \$150,000 \$1,007,451 \$2,768,000 \$1,216,446 \$2,164,446 \$1,197,796 \$1,104,000 \$1,104,000 \$1,197,796 \$1,104,000 \$1,104,000 \$1,197,796 \$1,104,000 \$1,10	4 RJ Ryan Const 5 Mcgough Const 6 Independent School 7 Gardner Builders 8 MA Mortenson 9 Adolfson 8 Peterson 10 RJM Const 11 Jorgenson Const 12 RJM Const 13 Ryan Companies 14 Mcgough Const 15 Shaw Lundquist 16 Knutson Const 17 Greiner Const 18 Benike Const 19 North Loop Partners 20 Terra General Minnes Owner-Bu Year-to-Date* Construction Type 1 Single Family 2 Garages 8 Carports 3 Res Rmdl, Addn, Int 4 Commercial Week 48 - 11/22/ Builder 1 Liff Const Co Lic 2 Mcgough Const 3 Kraus Anderson 4 Greystone Const 5 Met Con ConstMet- 6 Opus Design Build 7 VIB Properties Lic 7 Construction ConstMet- 6 Opus Design Build 7 VIB Properties Lic	24 \$1 42 \$1 48 \$1 48 \$1 1 \$3 87 \$3 10 \$3 48 \$3 10 \$3 34 \$9 28 \$3 19 \$3 80 \$2 80 \$3 19 \$3 80 \$3 19 \$3 80 \$3 19 \$3 80 \$3 19 \$3 80 \$3 10 \$3 80 \$3 10 \$3 80 \$3 10 \$3 80 \$3 10 \$3 80 \$3 10 \$3 80 \$3 10 \$3 80 \$3 10 \$3 80 \$3 10 \$3 80 \$3 10 \$3 80 \$3 10 \$3 80 \$3 10 \$3 80 \$3 10 \$3 80 \$3 10 \$3 80 \$3 10 \$3 80 \$3 1	103,781,768 100,220,018 1888,355,000 1888,355,000 1888,355,000 1891,329,710 1891,321

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SOURCE: CONSTRUCTION MONITOR 2018

Table 15. 2018 Wisconsin Building Permit Summary

Construction Monito	ř			Wiscon Single Family	Builde		Wisconsin Multi-Family Builders Year-to-Date 12/05/2018		
		www.constructionr	monitor.com	Year-to-Date 1: Builder F	2/05/20 lomes	18 Value			
Wisconsin Buildii				1 Veridian Homes LLC	188	\$56,348,264		Units	Va
Year-to-Dat	e 12/05/	2018		2 MI Homes of	40	\$11,843,000	1 Connery Const Inc	317	\$41,100,0
Residential	Permits	Value	Units	3 C&M Properties &	32	\$8,128,260	2 McShane Const Co	177 272	\$38,000,0
Single Family Homes	1,099	\$298,783,718	1125	4 Wurzer Builders Inc	14	\$4,885,000	3 Krupp General 4 Ruedebusch Dev &	86	\$34,000,0 \$15,100,0
Duplexes & Twin Homes	40	\$11,895,133	80	5 Tim Obrien Homes of	13	\$3.915.533	5 Stevens Const	53	\$12,500.0
Apartments & Condos	61	\$244,572,907	1899	6 JFT Const LLC	22	\$3,805,000	6 Encore Homes Inc	109	\$12,300,0
Cabins	1	\$145,000	0	7 Apple Tree GB Two	13	\$3,715,000	7 Building 41 LLC	86	\$8,420,0
Other Residential Structures			0	8 Bielinski Homes Inc	11	\$3,512,380	8 Gorman & Co Inc	60	\$8,200,0
	125	\$15,455,181		9 Apple Tree LLC	12	\$3,306,500	9 Syncromatic Const	45	\$8,200,0
Swimming Pools & Spas	88	\$2,544,945	0	10 Apple Tree Green Bay		\$3,198,621	10 Metro Realty Group	86	\$8,000,0
Garages & Carports	542	\$11,763,545	0	11 Advantage Homes	11	\$2,885,000	, ,		\$0,000,0
Res Rmdl, Addn, Int Fin	4,379	\$119,849,705	0	12 William Ryan Homes	13	\$2,730,000	Wiscon	nsin	
Reroof Residential	119	\$4,231,083	0	13 Korndoerfer Homes	7	\$2,640,000	Other Resident	ial Bui	lders
Total Residential Const	6,454	\$709,241,280	3,104	14 Denyon Homes Inc	14	\$2,515,000	Year-to-Date 1		
Commercial	Permits	Value	Units	15 Caseys Meadow LLC	10	\$2,405,500		ermits	Va
Offices/Banks/R&D/Professiona		\$25,434,183	0	16 Mark Winter Homes	10	\$2,265,000	1 The Samuels Group	1	\$7,800,0
Retail/Whsl/Dining/Personal	17	\$9,407,826	0	17 Ashley Const	6	\$1,932,410	2 Commonwealth Co	6	\$5,577,0
				18 Forster Const LLC	10	\$1,930,000	3 VMC Lofts LLC	1	\$5,060,0
Mixed Use	4	\$17,877,000	47	19 Griffin Builders	2	\$1,800,000	4 Paul Davis	13	\$3,218,6
Auto/Truck Sales & Service	3	\$7,156,000	0	20 Belman Homes	4	\$1,680,000	5 Continuum Architects	1	\$3,139,6
Parking Structures & Carports	25	\$8,642,198	0	21 Jason Thomas	4	\$1,672,515	6 Waunakee	186	\$2,673,
Motels, Hotels, & RV Parks	5	\$26,000,000	0	22 Encore Homes Inc	4	\$1,664,928	7 Tri North Builders Inc	3	\$2,390,
Indus-Manuf, Whse-Shops,	35	\$73,620,464	0	23 Houlihan Const	2	\$1,570,000	8 National Church	2	\$1,701,
Hospitals & Other Institutions	6	\$44,365,325	112	24 Detrie Builders	6	\$1,500,000	9 James Kassner	4	\$1,053,0
Churches & Other Religious	1	\$200,000	0	25 Hart Denoble Builders	1	\$1,500,000	10 Ereg Durand Plaza	4	\$1,000,
				26 Advantage Land LLC	6	\$1,455,000	11 Hart Denoble	1	\$950,
Public Buildings & Projects	11	\$53,089,586	0	27 Vans Lumber &	2	\$1,410,000	12 Northcentral	8	\$943,
Utilities (gas elect wtr swr)	95	\$42,428,398	0	28 CMJM Properties LLC	5	\$1,345,802	13 Paul Davis	13	\$909,
Parks, Recreation, Entertain,	10	\$11,452,299	0	29 Boardwalk Builders	6	\$1,305,000	14 Paul Davis	12	\$877,
Agricultural Buildings & Sheds	74	\$4,658,590	0	30 Milwaukee Habitat for	25	\$1,250,000	15 Vogel Brothers	2	\$872,
Other Non-Residential Buildings	125	\$336,695,774	0	31 Trademark Homes	4	\$1,250,000	16 Sid Grinker	1	\$850,
Comm Structures Other Than	62	\$7,357,800	0	32 Midwest Homes Inc	3	\$1,190,000	17 Everdry	52	\$836,
Comm Rmdl, Addn, Int Fin	2,263	\$666,283,831	0	33 Duren Custom	2	\$1,150,000	18 Landquest Home	1	\$800,
Reroof Commercial	99	\$20,802,366	0	34 Timber Ridge Builders	9	\$1,140,000	19 Portside Builders	13	\$785,
				35 Classic Custom	2	\$1,087,215	20 Scherrer Const Co	1	\$765,
Total Commercial Const	2,848	\$1,355,471,616	159	36 Jacob Const	1	\$1,085,659	21 Royal Const	1	\$750,
Solar	Permits	Value	Units	37 HDC Contractors	10	\$1,050,000	22 Associated	10	\$736.
Alternative Residential Energy	105	\$1,664,470	0	38 Wellnitz & Sarow	6	\$1,035,000	23 Feldco Factory Direct	74	\$699,
Alternative Commercial Energy	24	\$3,581,020	0	39 Perks Const LLC	4	\$1,033,600			
Total Solar Const	129	\$5,245,490	0	40 Blue Stone Custom	3	\$1,015,000	Wiscon		
			-	41 Espire Homes	3	\$1,010,635	Commercial		
Total Wisconsin Const	9,431	\$2,069,958,528	3,263	42 Held Homes Const	4	\$1,010,000	Year-to-Date 1	2/05/20	J18
				43 Meyer Builders	2	\$1,000,000	Builder P	ermits	V
				44 Johnny B Home	5	\$990,000	1 JH Findorff & Son	26	\$146,159,3
Wisconsin Buildii	na Permi	it Summary		45 Creative Homes	4	\$981,000	2 Kahler Slater	8	\$94,366,5
Week 49 - 11/29/18 to 12/			0)	46 Next Step Building &	3	\$975,740	3 TNSH Landlord LLC	4	\$68,217,0
				47 N&P Properties LLC	4	\$975,000	4 Hunzinger Const Co	7	\$42,169,
Residential	Permits	Value		48 Holzinger Homes LLC	3	\$945,000	5 Riley Const Co Inc	9	\$39,417,0
Single Family Homes	23	\$5,456,263	23	49 Installation Specialists	5	\$920,000	6 Miron Const	22	\$36,464,
Demolition	23	\$207,002	0	50 Schmidt Bros Custom	2	\$918,000	7 Market & Johnson	21	\$34,159,
Grading & Dust	6	\$50,000	0	51 DREC LLC	3	\$900,000	8 JP Cullen & Sons	5	\$33,946,
Footing & Foundation	10	\$76,100	0	52 Roessler & Sons	1	\$884,000	9 Stevens Const	5	\$31,308,
Duplexes & Twin Homes	4	\$617,500	8	53 Hurley Homes	5	\$870,000	10 Immel Const	4	\$28,143,
Apartments & Condos	1	\$38,000,000		54 Kings Way Homes	2	\$859,100	11 Miron Const Co	3	\$27,416,
	7		0	55 Northpointe Const Inc	3	\$846,423	12 JP Cullen & Sons	3	\$20,742,
Other Residential Structures		\$223,800					13 Tri North Builders	19	\$20,460,
Garages & Carports	15	\$558,669	0	Wiscon	sin		14 Vogel Brothers	13	\$19,155,
Res Rmdl, Addn, Int Fin	44	\$766,125		Garage and Carp	ort Rui	ilders	15 JH Findorff & Son	7	\$18,809,
Total Residential Const	133	\$45,955,456	208	Year-to-Date 1			16 Miron Const Co Inc	16	\$16,785,
			Units		ermits	Value	17 CD Smith Const	5	\$15,435,
Commercial	Permits			Dunuer Pt			18 Milwaukee School of	2	\$14,550,
Commercial Demolition (Commercial)	Permits 1	Value \$0						1	\$14,500,
Demolition (Commercial)	1	\$0	0	1 JD Griffiths Co Inc	43	\$971,000	19 Danny O'Brien		\$13,780.
Demolition (Commercial) Footing & Foundation	1 1	\$0 \$45,000	0	JD Griffiths Co Inc American Garage	43 39	\$971,000 \$811,610	19 Danny O'Brien 20 Ideal Builders Inc	15	
Demolition (Commercial) Footing & Foundation Mixed Use	1 1 1	\$0 \$45,000 \$47,000	0 0 0	JD Griffiths Co Inc American Garage Katheryn Sullivan	43 39 1	\$971,000 \$811,610 \$593,733	20 Ideal Builders Inc	15	****
Demolition (Commercial) Footing & Foundation Mixed Use Agricultural Buildings & Sheds	1 1 1 7	\$0 \$45,000 \$47,000 \$82,000	0 0 0	JD Griffiths Co Inc American Garage Katheryn Sullivan Griffin Builders	43 39 1 2	\$971,000 \$811,610 \$593,733 \$300,000	20 Ideal Builders Inc Wiscon	15 nsin	4 1 1
Demolition (Commercial) Footing & Foundation Mixed Use Agricultural Buildings & Sheds Other Non-Residential Buildings	1 1 1 7 1	\$0 \$45,000 \$47,000 \$82,000 \$33,000	0 0 0 0	JD Griffiths Co Inc American Garage Katheryn Sullivan Griffin Builders RH Design Build	43 39 1 2 1	\$971,000 \$811,610 \$593,733 \$300,000 \$255,000	20 Ideal Builders Inc Wiscon Owner-Bu	15 nsin uilders	
Demolition (Commercial) Footing & Foundation Mixed Use Agricultural Buildings & Sheds	1 1 1 7	\$0 \$45,000 \$47,000 \$82,000	0 0 0	J JD Griffiths Co Inc American Garage Katheryn Sullivan Griffin Builders RH Design Build Gilbert Garages	43 39 1 2 1	\$971,000 \$811,610 \$593,733 \$300,000 \$255,000 \$254,995	20 Ideal Builders Inc Wiscon Owner-Bu Year-to-Date 1	15 nsin iilders 12/05/20	018
Demolition (Commercial) Footing & Foundation Mixed Use Agricultural Buildings & Sheds Other Non-Residential Buildings	1 1 1 7 1	\$0 \$45,000 \$47,000 \$82,000 \$33,000	0 0 0 0	1 JD Griffiths Co Inc 2 American Garage 3 Katheryn Sullivan 4 Griffin Builders 5 RH Design Build 6 Gilbert Garages 7 Engineered Const	43 39 1 2 1 10 1	\$971,000 \$811,610 \$593,733 \$300,000 \$255,000 \$254,995 \$200,000	20 Ideal Builders Inc Wiscor Owner-Bu Year-to-Date 1 Construction Type	15 nsin nilders 12/05/20 Permits	018 v
Demolition (Commercial) Footing & Foundation Mixed Use Agricultural Buildings & Sheds Other Non-Residential Buildings Comm Rmdl, Addn, Int Fin Reroof Commercial	1 1 7 1 34	\$0 \$45,000 \$47,000 \$82,000 \$33,000 \$29,256,125 \$130,050	0 0 0 0 0	1 JD Griffiths Co Inc 2 American Garage 3 Katheryn Sullivan 4 Griffin Builders 5 RH Design Build 6 Gilbert Garages 7 Engineered Const 8 Northgate Ventures	43 39 1 2 1 10 1	\$971,000 \$811,610 \$593,733 \$300,000 \$255,000 \$254,995 \$200,000 \$200,000	20 Ideal Builders Inc Wiscor Owner-Bu Year-to-Date 1 Construction Type 1 Single Family	15 nsin uilders 12/05/20 Permits 186	018 V \$51,298,
Demolition (Commercial) Footing & Foundation Mixed Use Agricultural Buildings & Sheds Other Non-Residential Buildings Comm Rmdl, Addn, Int Fin Reroof Commercial Total Commercial Const	1 1 1 7 1 34 1 46	\$0 \$45,000 \$47,000 \$82,000 \$33,000 \$29,256,125 \$130,050 \$29,593,174	0 0 0 0 0 0	1 JD Griffiths Co Inc 2 American Garage 3 Katheryn Sullivan 4 Griffin Builders 5 RH Design Build 6 Gilbert Garages 7 Engineered Const 8 Northgate Ventures 9 Kwaterski Const	43 39 1 2 1 10 1 1	\$971,000 \$811,610 \$593,733 \$300,000 \$255,000 \$254,995 \$200,000 \$200,000 \$150,000	20 Ideal Builders Inc Wiscor Owner-Bu Year-to-Date 1 Construction Type 1 Single Family 2 Garages & Carports	15 nsin uilders 12/05/20 Permits 186 260	018 V \$51,298, \$4,072,
Demolition (Commercial) Footing & Foundation Mixed Use Agricultural Buildings & Sheds Other Non-Residential Buildings Comm Rmdl, Addn, Int Fin Reroof Commercial Total Commercial Const Solar	1 1 1 7 1 34 1 46 Permits	\$0 \$45,000 \$47,000 \$82,000 \$33,000 \$29,256,125 \$130,050 \$29,593,174 Value	0 0 0 0 0 0 0 0	J JD Griffiths Co Inc American Garage Katheryn Sullivan Griffin Builders S RI Design Build Gilbert Garages T Engineered Const Northgate Ventures Waterski Const J JD Griffiths	43 39 1 2 1 10 1 1 1 6	\$971,000 \$811,610 \$593,733 \$300,000 \$255,000 \$254,995 \$200,000 \$150,000 \$150,000 \$141,500	20 Ideal Builders Inc Wiscor Owner-Bu Year-to-Date 1 Construction Type 1 1 Single Family 2 Garages & Carports 3 Res Rmdl, Addn, Int	15 nsin lilders 12/05/20 Permits 186 260 1211	018 V \$51,298, \$4,072, \$22,533,
Demolition (Commercial) Footing & Foundation Mixed Use Agricultural Buildings & Sheds Other Non-Residential Buildings Comm Rmdl, Addn, Int Fin Reroof Commercial Total Commercial Const Solar Alternative Residential Energy	1 1 1 7 1 34 1 46	\$0 \$45,000 \$47,000 \$82,000 \$33,000 \$29,256,125 \$130,050 \$29,593,174 Value \$130,946	0 0 0 0 0 0 0 0 0 0	1 JD Griffiths Co Inc 2 American Garage 3 Katheryn Sullivan 4 Griffin Builders 5 RH Design Build 6 Gilbert Garages 7 Engineered Const 8 Northgate Ventures 9 Kwaterski Const	43 39 1 2 1 10 1 1	\$971,000 \$811,610 \$593,733 \$300,000 \$255,000 \$254,995 \$200,000 \$200,000 \$150,000	20 Ideal Builders Inc Wiscor Owner-Bu Year-to-Date 1 Construction Type 1 Single Family 2 Garages & Carports	15 nsin uilders 12/05/20 Permits 186 260	018 V \$51,298, \$4,072, \$22,533,
Demolition (Commercial) Footing & Foundation Mixed Use Agricultural Buildings & Sheds Other Non-Residential Buildings Comm Rmdl, Addn, Int Fin Reroof Commercial Total Commercial Const Solar	1 1 1 7 1 34 1 46 Permits	\$0 \$45,000 \$47,000 \$82,000 \$33,000 \$29,256,125 \$130,050 \$29,593,174 Value	0 0 0 0 0 0 0 0 0 0	J JD Griffiths Co Inc 2 American Garage 3 Katheryn Sullivan 4 Griffin Builders 5 RH Design Build 6 Gilbert Garages 7 Engineered Const 8 Northgate Ventures 9 Kwaterski Const 10 JD Griffiths 11 Classic Builders	43 39 1 2 1 10 1 1 1 6 6	\$971,000 \$811,610 \$593,733 \$300,000 \$255,000 \$254,995 \$200,000 \$150,000 \$150,000 \$141,500	20 Ideal Builders Inc Wiscoro Owner-Bu Year-to-Date 1 Construction Type 1 1 Single Family 2 Garages & Carports 3 Res Rmdl, Addn, Int 4 Commercial	15 nsin vilders 12/05/20 Permits 186 260 1211 171	018 V \$51,298, \$4,072, \$22,533,
Demolition (Commercial) Footing & Foundation Mixed Use Agricultural Buildings & Sheds Other Non-Residential Buildings Comm Rmdl, Addn, Int Fin Reroof Commercial Total Commercial Const Solar Alternative Residential Energy Total Solar Const	1 1 1 7 7 1 34 1 46 Permits 5 5	\$50 \$47,000 \$47,000 \$82,000 \$33,000 \$29,256,125 \$130,050 \$29,593,174 Value \$130,946	0 0 0 0 0 0 0 0 0 0 0 0 0	1 JD Griffiths Co Inc 2 American Garage 3 Katheryn Sullivan 4 Griffin Builders 5 RH Design Build 6 Gilbert Garages 7 Engineered Const 8 Norfhgate Ventures 9 Kwaterski Const 10 JD Griffiths 11 Classic Builders	43 39 1 2 1 10 1 1 1 6 6	\$971,000 \$811,610 \$593,733 \$300,000 \$255,000 \$254,995 \$200,000 \$200,000 \$150,000 \$141,500 \$137,000	20 Ideal Builders Inc Wiscor Owner-Bu Year-to-Date f Construction Type I 1 Single Family 2 Garages & Carports 3 Res Rmd, Addn, Int 4 Commercial Wiscor	15 nsin nilders 12/05/20 Permits 186 260 1211 171	018 V/ \$51,298, \$4,072, \$22,533, \$4,846,
Demolition (Commercial) Footing & Foundation Mixed Use Agricultural Buildings & Sheds Other Non-Residential Buildings Comm Rmdl, Addn, Int Fin Reroof Commercial Total Commercial Const Solar Alternative Residential Energy	1 1 7 1 34 1 46 Permits	\$0 \$45,000 \$47,000 \$82,000 \$33,000 \$29,256,125 \$130,050 \$29,593,174 Value \$130,946	0 0 0 0 0 0 0 0 0 0 0 0 0	J D Griffiths Co Inc American Garage Xetheryn Sullivan Griffin Builders RH Design Build Gilbert Garages T Engineered Const Northgate Ventures Ikwaterski Const J D Griffiths Classic Builders Wiscon Residential E	43 39 1 2 1 10 1 1 1 6 6 6	\$971,000 \$811,610 \$593,733 \$300,000 \$255,000 \$254,995 \$200,000 \$100,000 \$141,500 \$137,000	20 Ideal Builders Inc Wiscor Owner-BL Year-to-Date 1 Construction Type I 1 Single Family 2 Garages & Carports 3 Res Rmdi, Addn, Int 4 Commercial Wiscor Commercial	15 nsin uilders 12/05/20 Permits 186 260 1211 171 nsin Builde	018 V \$51,298, \$4,072, \$22,533, \$4,846,
Demolition (Commercial) Footing & Foundation Mixed Use Agricultural Buildings & Sheds Other Non-Residential Buildings Comm Rmdl, Addn, Int Fin Reroof Commercial Total Commercial Const Solar Alternative Residential Energy Total Solar Const	1 1 1 7 7 1 34 1 46 Permits 5 5	\$50 \$47,000 \$47,000 \$82,000 \$33,000 \$29,256,125 \$130,050 \$29,593,174 Value \$130,946	0 0 0 0 0 0 0 0 0 0 0 0 0	J JD Griffiths Co Inc American Garage Archeryn Sullivan 4 Griffin Builders 5 RH Design Build 6 Gilbert Garages 7 Enginered Const Northgate Ventures 9 Kwaterski Const 10 JD Griffiths 11 Classic Builders Wiscon Residential I Week 49 - 11/20/1	43 39 1 2 1 10 1 1 1 6 6 6	\$971,000 \$811,610 \$593,733 \$300,000 \$255,000 \$224,995 \$200,000 \$100,000 \$141,500 \$137,000	20 Ideal Builders Inc Wiscor Owner-B Year-to-Date 1 Construction Type 1 1 Single Family 2 Garages & Carports 3 Res Rmdi, Addn, Int 4 Commercial Wiscor Commercial Week 49 - 11/287	15 nsin uilders 12/05/20 Permits 186 260 1211 171 nsin Builde 18 to 12	018 V \$51,298, \$4,072, \$22,533, \$4,846, rs
Demolition (Commercial) Footing & Foundation Mixed Use Agricultural Buildings & Sheds Other Non-Residential Buildings Comm Rmdl, Addn, Int Fin Reroof Commercial Total Commercial Const Solar Alternative Residential Energy Total Solar Const	1 1 1 7 7 1 34 1 46 Permits 5 5	\$50 \$47,000 \$47,000 \$82,000 \$33,000 \$29,256,125 \$130,050 \$29,593,174 Value \$130,946	0 0 0 0 0 0 0 0 0 0 0 0 0	1 JD Griffiths Co Inc 2 American Garage 3 Katheryn Sullivan 4 Griffin Builders 5 RH Design Build 6 Gilbert Garages 7 Engineered Const 8 Norfhgate Ventures 9 Kwaterski Const 10 JD Griffiths 11 Classic Builders Wiscon Residential E Week 49 - 11/29/1 Builder P	43 39 1 2 1 10 1 1 1 6 6 6 8 to 12 ermits	\$971,000 \$811,610 \$593,733 \$300,000 \$255,000 \$255,000 \$255,000 \$200,000 \$150,000 \$141,500 \$137,000	20 Ideal Builders Inc Wiscor Owner-Bu Year-10-Date f Construction Type I 1 Single Family 2 Garages & Carports 3 Res Rmdi, Addn, Int 4 Commercial Wiscor Commercial Week 49 - 11/29/ Builder	15 nsin ilders 12/05/20 Permits 186 260 1211 171 nsin Builde 18 to 12 Permits	018 V \$51,298, \$4,072, \$22,533, \$4,846, rs 2/05/18 V
Demolition (Commercial) Footing & Foundation Mixed Use Agricultural Buildings & Sheds Other Non-Residential Buildings Comm Rmdl, Addn, Int Fin Reroof Commercial Total Commercial Const Solar Alternative Residential Energy Total Solar Const	1 1 1 7 7 1 34 1 46 Permits 5 5	\$50 \$47,000 \$47,000 \$82,000 \$33,000 \$29,256,125 \$130,050 \$29,593,174 Value \$130,946	0 0 0 0 0 0 0 0 0 0 0 0 0	J JD Griffiths Co Inc American Garage Archeryn Sullivan 4 Griffin Builders 5 RH Design Build 6 Gilbert Garages 7 Enginered Const Northgate Ventures 9 Kwaterski Const 10 JD Griffiths 11 Classic Builders Wiscon Residential I Week 49 - 11/20/1	43 39 1 2 1 10 1 1 1 6 6 6	\$971,000 \$811,610 \$593,733 \$300,000 \$255,000 \$255,000 \$200,000 \$150,000 \$141,500 \$137,000 \$05/18 Value \$38,000,000	20 Ideal Builders Inc Wiscor Owner-BL Year-to-Date 1 Construction Type 1 1 Single Family 2 Garages & Carports 3 Res Randl, Addn, Int 4 Commercial Wiscor Commercial Week 49 - 11/29/ Builder P 1 CD Smith Const	15 nsin uilders 12/05/20 Permits 186 260 1211 171 nsin Builde 18 to 12	018 V \$51,298, \$4,072, \$22,533, \$4,846, rs 2/05/18 V \$13,500,
Demolition (Commercial) Footing & Foundation Mixed Use Agricultural Buildings & Sheds Other Non-Residential Buildings Comm Rmdl, Addn, Int Fin Reroof Commercial Total Commercial Const Solar Alternative Residential Energy Total Solar Const	1 1 1 7 7 1 34 1 46 Permits 5 5	\$50 \$47,000 \$47,000 \$82,000 \$33,000 \$29,256,125 \$130,050 \$29,593,174 Value \$130,946	0 0 0 0 0 0 0 0 0 0 0 0 0	J JD Griffiths Co Inc American Garage Katheryn Sullivan 4 Griffin Builders 5 RH Design Build Gilbert Garages 7 Engineered Const Northgate Ventures 9 Kwaterski Const 10 JD Griffiths 11 Classic Builders Wiscon Residential It Week 49 - 11/29/1 Builder 1 McShane Const Co 2 Apple Tree GB Two	43 39 1 2 1 10 1 1 6 6 6 sin Builder 8 to 12: ermits 1 2	\$971,000 \$811,610 \$593,733 \$300,000 \$255,000 \$254,995 \$200,000 \$150,000 \$141,500 \$137,000 \$	20 Ideal Builders Inc Wiscor Owner-Bu Year-to-Date t Construction Type 1 1 Single Family 2 Garages & Carports 3 Res Rmdl, Addn, Int 4 Commercial Wiscor Commercial West 49 - 11/29/ Builder 1 CD Smith Const 2 JP Cullen & Sons	15 nsin ilders 12/05/20 Permits 186 260 1211 171 nsin Builde 18 to 12 Permits	018 V \$51,298, \$4,072, \$22,533, \$4,846, **s \$2/05/18 V \$13,500, \$5,100,
Demolition (Commercial) Footing & Foundation Mixed Use Agricultural Buildings & Sheds Other Non-Residential Buildings Comm Rmdl, Addn, Int Fin Reroof Commercial Total Commercial Const Solar Alternative Residential Energy Total Solar Const	1 1 1 7 7 1 34 1 46 Permits 5 5	\$50 \$47,000 \$47,000 \$82,000 \$33,000 \$29,256,125 \$130,050 \$29,593,174 Value \$130,946	0 0 0 0 0 0 0 0 0 0 0 0 0	1 JD Griffiths Co Inc 2 American Garage 3 Katheryn Sullivan 4 Griffin Builders 5 RH Design Build 6 Gilbert Garages 7 Engineered Const 8 Northgate Ventures 9 Kwaterski Const 10 JD Griffiths 11 Classic Builders Wiscon Residential I Week 49 - 11/29/1 Builder 1 McShane Const Co 2 Apple Tree GB Two 3 Mark Winter Homes	43 39 1 2 1 10 1 1 1 6 6 6 sin 8 to 12. ermits 1 2 2	\$971,000 \$811,610 \$893,733 \$300,000 \$255,000 \$255,000 \$255,000 \$200,000 \$200,000 \$141,500 \$137,000 \$141,500 \$137,000 \$184,500 \$180,000 \$6561,800 \$450,000	20 Ideal Builders Inc Wiscor Owner-BL Year-to-Date 1 Construction Type 1 1 Single Family 2 Garages & Carports 3 Res Randl, Addn, Int 4 Commercial Wiscor Commercial Week 49 - 11/29/ Builder P 1 CD Smith Const 2 JP Cullen & Sons 3 Henkels & McCoy	15 nsin ilders 12/05/20 Permits 186 260 1211 171 nsin Builde 18 to 12 Permits 1	V \$51,298 \$4,072, \$22,533, \$4,846, V \$13,500, \$5,100, \$5,000,
Demolition (Commercial) Footing & Foundation Mixed Use Agricultural Buildings & Sheds Other Non-Residential Buildings Comm Rmdl, Addn, Int Fin Reroof Commercial Total Commercial Const Solar Alternative Residential Energy Total Solar Const	1 1 1 7 7 1 34 1 46 Permits 5 5	\$50 \$47,000 \$47,000 \$82,000 \$33,000 \$29,256,125 \$130,050 \$29,593,174 Value \$130,946	0 0 0 0 0 0 0 0 0 0 0 0 0	1 JD Griffiths Co Inc 2 American Garage 3 Katheryn Sullivan 4 Griffin Builders 5 RH Design Build 6 Gilbert Garages 7 Engineered Const 8 Northgate Ventures 9 Kwaterski Const 10 JD Griffiths 11 Classic Builders Wiscon Residential I Week 49 - 11/29/1 Builder 1 McShane Const Co 2 Apple Tree GB Two 3 Mark Winter Homes	43 39 1 2 1 10 1 1 6 6 6 sin Builder 8 to 12: ermits 1 2	\$971,000 \$811,610 \$593,733 \$300,000 \$255,000 \$254,995 \$200,000 \$150,000 \$141,500 \$137,000 \$	20 Ideal Builders Inc Wiscor Owner-B Year-to-Date 1 Construction Type I 1 Single Family 2 Garages & Carports 3 Res Rmdl, Addn, Int 4 Commercial Week 49 - 11/29 Builder 1 CD Smith Const 2 JP Cullen & Sons 3 Henkels & McCoy 4 Howard Immel Inc	15 nsin uilders 12/05/20 Permits 186 260 1211 171 nsin Builde 18 to 12 Permits 1	v \$51,298, \$4,072, \$22,533, \$4,846, v \$13,500, \$5,100, \$5,000, \$2,284, \$2,284, \$4,240, \$2,284, \$4,240,
Demolition (Commercial) Footing & Foundation Mixed Use Agricultural Buildings & Sheds Other Non-Residential Buildings Comm Rmdl, Addn, Int Fin Reroof Commercial Total Commercial Const Solar Alternative Residential Energy Total Solar Const	1 1 1 7 7 1 34 1 46 Permits 5 5	\$50 \$47,000 \$47,000 \$82,000 \$33,000 \$29,256,125 \$130,050 \$29,593,174 Value \$130,946	0 0 0 0 0 0 0 0 0 0 0 0 0	J JD Griffiths Co Inc American Garage Katheryn Sullivan 4 Griffin Builders 5 RH Design Build Gilbert Garages 7 Engineered Const Northgate Ventures 9 Kwaterski Const 10 JD Griffiths 11 Classic Builders Wiscon Residential It Week 49 - 11/29/1 Builder 1 McShane Const Co 2 Apple Tree GB Two	43 39 1 2 1 10 1 1 1 6 6 6 sin 8 to 12. ermits 1 2 2	\$971,000 \$811,610 \$893,733 \$300,000 \$255,000 \$255,000 \$255,000 \$200,000 \$200,000 \$141,500 \$137,000 \$141,500 \$137,000 \$184,500 \$180,000 \$6561,800 \$450,000	20 Ideal Builders Inc Wiscor Owner-BL Year-to-Date 1 Construction Type 1 1 Single Family 2 Garages & Carports 3 Res Randl, Addn, Int 4 Commercial Wiscor Commercial Week 49 - 11/29/ Builder P 1 CD Smith Const 2 JP Cullen & Sons 3 Henkels & McCoy	15 nsin uilders 12/05/20 Permits 186 260 1211 171 nsin Builde 18 to 12 Permits 1 1 1	v \$51,298, \$4,072; \$22,533, \$4,846; v \$13,500; \$5,100; \$5,22,84,846; \$1,500; \$
Demolition (Commercial) Footing & Foundation Mixed Use Agricultural Buildings & Sheds Other Non-Residential Buildings Comm Rmdl, Addn, Int Fin Reroof Commercial Total Commercial Const Solar Alternative Residential Energy Total Solar Const	1 1 1 7 7 1 34 1 46 Permits 5 5	\$50 \$47,000 \$47,000 \$82,000 \$33,000 \$29,256,125 \$130,050 \$29,593,174 Value \$130,946	0 0 0 0 0 0 0 0 Units 0	J JD Griffiths Co Inc American Garage Katheryn Sullivan 4 Griffin Builders 5 RH Design Build 6 Gilbert Garages 7 Engineered Const 8 Northgate Ventures 9 Kwaterski Const 10 JD Griffiths 11 Classic Builders Wiscon Residential Is Week 49 - 11/20/1 Builder M GShane Const Co 2 Apple Tree GB Two 3 Mark Winter Homes 4 Integrity Home	43 39 1 2 1 10 1 1 1 6 6 8 to 12 ermits 1 2 2	\$971,000 \$811,610 \$593,733 \$300,000 \$255,000 \$254,995 \$200,000 \$150,000 \$141,500 \$137,000 \$ Value \$38,000,000 \$561,800 \$450,000 \$419,463	20 Ideal Builders Inc Wiscor Owner-B Year-to-Date 1 Construction Type I 1 Single Family 2 Garages & Carports 3 Res Rmdl, Addn, Int 4 Commercial Week 49 - 11/29 Builder 1 CD Smith Const 2 JP Cullen & Sons 3 Henkels & McCoy 4 Howard Immel Inc	15 nsin uilders 12/05/20 Permits 186 260 1211 171 nsin Builde 18 to 12 Permits 1 1 1 1	\$1,298, \$4,072, \$22,533, \$4,846, \$2,05/18 \$1,3,500, \$5,000, \$5,000, \$2,284, \$1,100,
Demolition (Commercial) Footing & Foundation Mixed Use Agricultural Buildings & Sheds Other Non-Residential Buildings Comm Rmdl, Addn, Int Fin Reroof Commercial Total Commercial Const Solar Alternative Residential Energy Total Solar Const	1 1 1 7 7 1 34 1 46 Permits 5 5	\$50 \$47,000 \$47,000 \$82,000 \$33,000 \$29,256,125 \$130,050 \$29,593,174 Value \$130,946	0 0 0 0 0 0 0 0 Units 0	J JD Griffiths Co Inc American Garage Katheryn Sullivan 4 Griffin Builders 5 RH Design Build 6 Gilbert Garages 7 Engineered Const 8 Northgate Ventures 9 Kwaterski Const 10 JD Griffiths 11 Classic Builders Wiscon Residental I Week 49 - 11/29/1 Builder H McShane Const Co 2 Apple Tree GB Two 3 Mark Winter Homes 4 Integrity Home 5 Calmes Verkuilen 6 Romenesko	43 39 1 2 1 10 1 1 6 6 6 sin Builder 8 to 12 ermits 1 2 2 2 1	\$971,000 \$811,610 \$993,733 \$300,000 \$255,000 \$255,000 \$255,000 \$254,995 \$200,000 \$150,000 \$141,500 \$137,000 \$141,500 \$137,000 \$419,463 \$400,000 \$350,000 \$350,000	20 Ideal Builders Inc Wiscor Owner-BL Year-to-Date 1 Construction Type 1 1 Single Family 2 Garages & Carports 3 Res Rmdi, Addn, Int 4 Commercial Week 49 - 11/29/ Builder P 1 CD Smith Const 2 JP Cullen & Sons 3 Henkels & McCoy 4 Howard Immel Inc 5 Miron Const Co Inc 6 IEI General Contr Inc	15 nsin uilders 12/05/20 Permits 186 260 1211 171 nsin Builde 18 to 12 Permits 1 1 1 1 1	v \$51,298, \$4,072, \$22,533, \$4,846, rs \$2,000, \$5,000, \$5,000, \$2,284, \$1,100, \$350.
Demolition (Commercial) Footing & Foundation Mixed Use Agricultural Buildings & Sheds Other Non-Residential Buildings Comm Rmdl, Addn, Int Fin Reroof Commercial Total Commercial Const Solar Alternative Residential Energy Total Solar Const	1 1 1 7 7 1 34 1 46 Permits 5 5	\$50 \$47,000 \$47,000 \$82,000 \$33,000 \$29,256,125 \$130,050 \$29,593,174 Value \$130,946	0 0 0 0 0 0 0 0 Units 0	J JD Griffiths Co Inc 2 American Garage 3 Katheryn Sullivan 4 Griffin Builders 5 RH Design Build 6 Gilbert Garages 7 Engineered Const 8 Northqate Ventures 9 Kwaterski Const 10 JD Griffiths 11 Classic Builders Wiscon Residential I Week 49 - 11/29/1 Builder 1 Pc 1 Meshane Const Co 2 Apple Tree GB Two 3 Mark Winter Homes 4 Integrify Home 5 Calmes Verkuilen 6 Romenesko 7 Griffin Builders	43 39 1 2 1 10 1 1 6 6 8 to 12 ermits 1 2 2 2 1 2	\$971,000 \$811,610 \$593,733 \$300,000 \$255,000 \$254,995 \$200,000 \$150,000 \$141,500 \$137,000 \$ Value \$38,000,000 \$551,800 \$450,000 \$419,463 \$400,000 \$350,000 \$350,000 \$350,000	20 Ideal Builders Inc Wiscor Owner-Bu Year-to-Date t Construction Type 1 1 Single Family 2 Garages & Carports 3 Res Rmdl, Addn, Int 4 Commercial Wiscor Commercial Wed 49 - 11/29/ Builder 1 CD Smith Const 2 JP Cullen & Sons 3 Henkels & McCoy 4 Howard Immel Inc 5 Miron Const Co Inc 6 IEI General Contr Inc 7 Campbell Const	15 sin silders 12/05/20 Permits 186 260 1211 171 sin Builde 18 to 12 Permits 1 1 1 1 1 1	V. \$51,298, \$4,072,9 \$22,533, \$4,846,9 \$4,072,9 \$2,2533, \$4,846,9 \$4,846,9 \$13,500,9 \$5,100,9 \$5,000,9 \$1,100,9 \$350,9 \$2,284,9 \$1,100,9 \$350,9 \$280,9 \$2,200,9 \$350,9 \$2,200,9 \$2,
Demolition (Commercial) Footing & Foundation Mixed Use Agricultural Buildings & Sheds Other Non-Residential Buildings Comm Rmdl, Addn, Int Fin Reroof Commercial Total Commercial Const Solar Alternative Residential Energy Total Solar Const	1 1 1 7 7 1 34 1 46 Permits 5 5	\$50 \$47,000 \$47,000 \$82,000 \$33,000 \$29,256,125 \$130,050 \$29,593,174 Value \$130,946	0 0 0 0 0 0 0 0 Units 0	1 JD Griffiths Co Inc 2 American Garage 3 Katheryn Sullivan 4 Griffin Builders 5 RH Design Build 6 Gilbert Garages 7 Engineered Const 8 Northgate Ventures 9 Kwaterski Const 10 JD Griffiths 11 Classic Builders Wiscon Residential I Week 49 - 11/29/1 Builder 1 McShane Const Co 2 Apple Tree GB Two 3 Mark Winfer Homes 4 Integrity Home 5 Calmes Verkullen 6 Romenesko 7 Griffin Builders 8 Terrace Homes	43 39 1 2 1 10 1 1 6 6 6 sin Builder 8 to 12 ermits 1 2 2 2 1	\$971,000 \$811,610 \$993,733 \$300,000 \$255,000 \$255,000 \$255,000 \$200,000 \$200,000 \$141,500 \$137,000 \$105/18 Value \$38,000,000 \$450,000 \$450,000 \$450,000 \$450,000 \$450,000 \$350,000 \$350,000 \$300,000	20 Ideal Builders Inc Wiscor Owner-BL Year-to-Date 1 Construction Type I 1 Single Family 2 Garages & Carports 3 Res Rmdi, Addn, Int 4 Commercial Wiscor Commercial Week 49 - 11/29/ Builder P 1 CD Smith Const 2 JP Cullen & Sons 3 Henkels & McCoy 4 Howard Immel Inc 5 Miron Const Co Inc 6 IEI General Contr Inc 7 Campbell Const	15 nsin nilders 12/05/20 Permits 186 260 1211 171 nsin Builde 18 to 12 Permits 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	018 V \$51,298, \$4,072 \$22,533, \$4,846 rs \$7,000 \$5,100 \$5,000, \$2,284 \$1,100 \$350, \$253,
Demolition (Commercial) Footing & Foundation Mixed Use Agricultural Buildings & Sheds Other Non-Residential Buildings Comm Rmdl, Addn, Int Fin Reroof Commercial Total Commercial Const Solar Alternative Residential Energy Total Solar Const	1 1 1 7 7 1 34 1 46 Permits 5 5	\$50 \$47,000 \$47,000 \$82,000 \$33,000 \$29,256,125 \$130,050 \$29,593,174 Value \$130,946	0 0 0 0 0 0 0 0 Units 0	J JD Griffiths Co Inc 2 American Garage 3 Katheryn Sullivan 4 Griffin Builders 5 RH Design Build 6 Gilbert Garages 7 Engineered Const 8 Northqate Ventures 9 Kwaterski Const 10 JD Griffiths 11 Classic Builders Wiscon Residential I Week 49 - 11/29/1 Builder 1 Pc 1 Meshane Const Co 2 Apple Tree GB Two 3 Mark Winter Homes 4 Integrify Home 5 Calmes Verkuilen 6 Romenesko 7 Griffin Builders	43 39 1 2 1 10 1 1 1 6 6 8 sin Builder. 2 2 1 2 1 2 1 2 1 1 1 2 1 1 1 1 1 2 1 1 1 1 1 2 1 1 1 2 1 1 1 2 1 1 2 1 1 2 1 1 2 1 2 1 1 2 2 1 2 2 1 2 1 2 1 2 2 1 2 2 1 2 2 1 2 2 2 2 1 2 2 2 2 2 2 2 1 2	\$971,000 \$811,610 \$593,733 \$300,000 \$255,000 \$254,995 \$200,000 \$150,000 \$141,500 \$137,000 \$ Value \$38,000,000 \$551,800 \$450,000 \$419,463 \$400,000 \$350,000 \$350,000 \$350,000	20 Ideal Builders Inc Wiscor Owner-Bu Year-to-Date t Construction Type 1 1 Single Family 2 Garages & Carports 3 Res Rmdl, Addn, Int 4 Commercial Wiscor Commercial Wed 49 - 11/29/ Builder 1 CD Smith Const 2 JP Cullen & Sons 3 Henkels & McCoy 4 Howard Immel Inc 5 Miron Const Co Inc 6 IEI General Contr Inc 7 Campbell Const	15 sin iilders 12/05/20 Permits 186 260 1211 171 sin Builde 18 to 12 Permits 1 1 1 1 1 1 1	018 V. \$51,298, \$4,072, \$22,533, \$4,846,

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SOURCE: CONSTRUCTION MONITOR 2018

Table 16. 2018 Iowa Building Permit Summary

Construction Monito	È	provinces structions	nonitor.com	lowa Single Family Year-to-Date 12	Builde		lowa Multi-Family Builders Year-to-Date 12/05/2018			
Iowa Building					Builder Homes Value			Builder Units Value		
				1 Hubbell Homes	169	\$40.633.203	1 Nelson Const	187	\$26,951,0	
Year-to-Dat				2 Classic Builders Inc	129	\$33,143,234	2 Jerrys Homes Inc	246	\$19,369,2	
Residential	Permits	Value	Units	3 Jerrys Homes Inc	137	\$28,602,151	3 Hubbell	62	\$17,151,9	
Single Family Homes	2,167	\$532,128,948	2162	4 Greenland Homes Inc	107	\$22,204,929	4 JCorp Inc	192	\$15,369,5	
Duplexes & Twin Homes	31	\$5,257,428	62	5 Orton Homes	64	\$18,546,675	5 Todd Hackett Const	178	\$14,230.0	
Apartments & Condos	261	\$231,858,539	2468	6 Genesis Homes	82	\$15,873,174	6 Jensen Group	144	\$14,106,0	
Mobile Homes	1	\$21,214	0	7 Happe Homes LLP	52	\$12,359,148	7 Perry Reid	174	\$13,749,0	
Other Residential Structures	79	\$4,386,873	0	8 Tanzanite Homes	32	\$8,955,504	8 High Development	171	\$13,650,0	
Swimming Pools & Spas	169	\$4,702,284	0	9 Grayhawk Homes of	24	\$7,169,731	9 TWG Development,	168	\$13,500,0	
Garages & Carports	198	\$5,072,310	0	10 MJ Properties LLC	24	\$6,585,684	10 Hubbell Const	144	\$8,260,0	
Res Rmdl, Addn, Int Fin	1,543	\$45,748,566	0	11 Happe Homes LLC	28	\$6,505,506				
Res Rilidi, Addil, Ilit Fill Reroof Residential				12 Neighborhood	14	\$6,446,266	low Other Residen		Idore	
	180	\$2,141,529	0	13 Element 119 LLC	27	\$5,783,493	Year-to-Date			
Total Residential Const	4,629	\$831,317,632	4,692	14 Stanbros Dev Llc	18	\$5,029,782				
Commercial	Permits	Value	Units	15 Meadow brook	20	\$5,023,673		Permits	V	
Offices/Banks/R&D/Professiona	J 51	\$135,272,586	0	16 Oakstone Homes Inc	17	\$5,022,031	1 Wegher Const Co	1	\$1,900,	
Retail/Whsl/Dining/Personal	40	\$79.165.050	0	17 Shadow Creek	16	\$4,874,718	2 Estes Const	1	\$1,300,	
	2	\$10.760.000	0	18 Savannah Homes Inc	23	\$4,525,673	3 Hinch Co Inc	1	\$766,	
Mixed Use		4 1 1	-	19 Mainbuilt	4	\$4,281,553	4 Hubbell Homes	14	\$538,	
Auto/Truck Sales & Service	7	\$7,829,595	0	20 Erickson Balmer	23	\$4,259,922	5 Hubbell Const	5	\$476,	
Parking Structures & Carports	4	\$41,306,100	0	21 Caliber Iowa LLC	18	\$4,209,920	6 Silent Rivers Inc	6	\$465,	
Motels, Hotels, & RV Parks	3	\$27,031,616	0	22 Sage Homes Inc	15	\$4,127,046	7 Maintenance Pro	16	\$457,	
Indus-Manuf, Whse-Shops,	68	\$375,322,199	0	23 KRM Development	12	\$3,909,275	8 Allstate Renovations	1	\$432,	
Hospitals & Other Institutions	8	\$63,278,961	0	24 Drake Homes Of Iowa	11	\$3,879,301	9 Andrew Howard	1	\$400,	
Churches & Other Religious	1	\$1,800,000	0	25 Skogman Const Co of		\$3,822,446	10 Jensen Group	4	\$377,	
Private Schools & Day Care	1	\$2,772,000	0	26 DS Solid Const LLC	13	\$3,816,430	11 Mercy Hospital	1	\$372	
				27 Skogman Homes	29	\$3,521,233	12 Feldco Factory Direct		\$365	
Public Buildings & Projects	22	\$55,976,965	0	28 Kimberley	10	\$3,457,993	13 Downing Const	1	\$350,	
Utilities (gas elect wtr swr)	5	\$665,314	0	29 Greater Des Moines	27	\$3,303,256	14 SOS LLC	1	\$315,	
Parks, Recreation, Entertain,	13	\$17,266,926	0	30 Dreamscape	7	\$2,995,110	15 Blaze Restoration Inc		\$314,	
Agricultural Buildings & Sheds	21	\$1,232,444	0	31 Grand Rail	10	\$2,875,000	16 Sage Construction	2	\$306,	
Other Non-Residential Buildings		\$151,773,896	0	32 CCS Homes	10	\$2,620,020	17 Abode Construction	14	\$274.	
Comm Structures Other Than	16	\$1,620,469	0	33 Diamond Builders of	15	\$2,609,500	18 Jared Kerkhoff	1	\$265,	
				34 Highland	6	\$2,334,362	19 Grand Homes &	3	\$259;	
Comm Rmdl, Addn, Int Fin	1,207	\$685,155,480	0	35 Rock Creek Builders	8	\$2,172,120	20 AT Solutions LLC	1	\$250,	
Reroof Commercial	55	\$5,920,850	0	36 Bella Homes	4	\$2,117,271	21 Federal Home Loan	1	\$250,	
Total Commercial Const	1,595	\$1,664,150,528	0	37 Grayhawk Homes Of	7	\$2,106,512	22 KRM Development	2	\$247.	
Solar	Permits	Value	Units	38 Arkos Custom Homes	6	\$2,101,042	23 HR Lancaster Const	3	\$240,	
Alternative Residential Energy	124	\$1,521,596	0	39 Robson Homes Inc	10	\$2,084,314			+=.0,	
Alternative Commercial Energy	14	\$878,766	0	40 Landmark	9	\$2,078,437	low			
				41 Acadia Custom	5	\$2,076,691	Commercial			
Total Solar Const	138	\$2,400,362	0	42 Evergreen Homes of	8	\$2,063,339	Year-to-Date		018	
Total Iowa Const	6,362	\$2,497,868,544	4,692	43 Flynn Development	4	\$2,061,635	Builder	Permits	V	
				44 Wegher Const Co	2	\$2,035,000	1 Tumer Const	1	\$166,680,	
Iowa Building	Darmit 0	lumman/	-	45 Venture Homes	9	\$2,030,000	2 Larson Construction	8	\$106,159,	
			0)	46 Metro Homes LLC	6	\$2,005,000	3 Graham Const Co	41	\$63,551,	
Week 49 - 11/29/18 to 12/				47 Kimberley Dev Corp	6	\$1,985,168	4 Ryan Companies	9	\$60,374.	
Residential	Permits	Value		48 Keystone Homes LLC	g	\$1,938,522	5 Microsoft	1	\$53,460,	
Single Family Homes	37	\$10,159,649	37	49 Frampton Homes	6	\$1,930,322	6 Facebook	3	\$49,175,	
Demolition	6	\$0	0	50 Kruse Construction	6	\$1,900,503	7 CA/Argent Coralville	2	\$37,271,	
Apartments & Condos	1	\$5,513,439	65	51 Ironcrest Homes	5	\$1,874,416	8 McComas-Lacina	8	\$37,234,	
Garages & Carports	1	\$8,640	0		5	\$1,834,596	9 The Weitz Company	6	\$36,474,	
				52 Affinity Homes	2		10 Baxter Const Co	1	\$33,000,	
	8	\$176,160	0	53 Fortis Built LLC		\$1,818,154	11 Kleiman	2	\$32,842,	
Res Rmdl, Addn, Int Fin		\$15,857,888	102	54 Ironwood Homes LLC	2	\$1,800,771 \$1,720,964			\$29,597.	
Res Rmdl, Addn, Int Fin Total Residential Const	53									
Total Residential Const		Value	Units	55 Dan Homes LLC	5	\$1,720,904	12 Neumann Brothers	19		
Total Residential Const Commercial	Permits	Value \$1,596,378				\$1,720,904	13 Tricon General	19		
Total Residential Const Commercial Retail/Whsl/Dining/Personal	Permits 3	\$1,596,378	0	Iowa			13 Tricon General 14 Altoona City Hall	19 1	\$25,198,	
Total Residential Const Commercial Retail/Whsl/Dining/Personal Auto/Truck Sales & Service	Permits 3 1	\$1,596,378 \$188,319	0	lowa Garage and Carp	ort Bui	ilders	13 Tricon General 14 Altoona City Hall 15 The Walsh Group	19 1 1	\$25,198, \$24,000,	
Total Residential Const Commercial Retail/Whsl/Dining/Personal Auto/Truck Sales & Service Other Non-Residential Buildings	Permits 3 1 5	\$1,596,378 \$188,319 \$89,269,394	0 0 0	lowa Garage and Carp Year-to-Date 1:	ort Bui 2/05/20	ilders 118	13 Tricon General 14 Altoona City Hall 15 The Walsh Group 16 Rick Novak Const.	19 1 1 2	\$25,198, \$24,000, \$19,325,	
Total Residential Const Commercial Retail/Whsi/Dining/Personal Auto/Truck Sales & Service Other Non-Residential Buildings Comm Rmdl, Addn, Int Fin	Permits 3 1 5 8	\$1,596,378 \$188,319 \$89,269,394 \$473,420	0 0 0	lowa Garage and Carp Year-to-Date 1: Builder Pe	ort Bui 2/05/20 ermits	ilders 118 Value	13 Tricon General 14 Altoona City Hall 15 The Walsh Group 16 Rick Novak Const. 17 Venter Spooner Inc	19 1 1 2 11	\$25,198, \$24,000, \$19,325, \$18,919,	
Total Residential Const Commercial Retail/Whsl/Dining/Personal Auto/Truck Sales & Service Other Non-Residential Buildings	Permits 3 1 5	\$1,596,378 \$188,319 \$89,269,394	0 0 0	Garage and Carp Year-to-Date 1: Builder Pe 1 Jerrys Homes Inc	oort Bui 2/05/20 ermits 2	ilders 118 Value \$435,632	13 Tricon General 14 Altoona City Hall 15 The Walsh Group 16 Rick Novak Const 17 Venter Spooner Inc 18 Graham	19 1 1 2 11 2	\$25,198, \$24,000, \$19,325, \$18,919, \$18,600,	
Total Residential Const Commercial Retail/Whs/I/Dining/Personal Auto/Truck Sales & Service Other Non-Residential Buildings Comm Rmdl, Addn, Int Fin	Permits 3 1 5 8	\$1,596,378 \$188,319 \$89,269,394 \$473,420	0 0 0 0	lowa Garage and Carp Year-to-Date 1: Builder Pe	ort Bui 2/05/20 ermits	ilders 118 Value	13 Tricon General 14 Altoona City Hall 15 The Walsh Group 16 Rick Novak Const. 17 Venter Spooner Inc. 18 Graham 19 Ryan Companies	19 1 1 2 11 2 9	\$25,198, \$24,000, \$19,325, \$18,919, \$18,600, \$18,547,	
Total Residential Const Commercial Retail/Whsl/Dining/Personal Auto/Truck Sales & Service Other Non-Residential Buildings Comm Rmdi, Addn, Int Fin Total Commercial Const	Permits	\$1,596,378 \$188,319 \$89,269,394 \$473,420 \$91,527,504	0 0 0 0	Garage and Carp Year-to-Date 1: Builder Pe 1 Jerrys Homes Inc	oort Bui 2/05/20 ermits 2	ilders 118 Value \$435,632	13 Tricon General 14 Altoona City Hall 15 The Walsh Group 16 Rick Novak Const 17 Venter Spooner Inc 18 Graham	19 1 1 2 11 2	\$25,198, \$24,000, \$19,325, \$18,919, \$18,600, \$18,547,	
Total Residential Const Commercial Retail/Whsl/Dining/Personal Auto/Truck Sales & Service Other Non-Residential Buildings Comm Rmdi, Addn, Int Fin Total Commercial Const	Permits	\$1,596,378 \$188,319 \$89,269,394 \$473,420 \$91,527,504	0 0 0 0	Garage and Carp Year-to-Date 1: Builder Pe 1 Jerrys Homes Inc 2 Perry Reid	2/05/20 ermits 2	ilders 118 Value \$435,632 \$420,000	13 Tricon General 14 Altoona City Hall 15 The Walsh Group 16 Rick Novak Const. 17 Venter Spooner Inc. 18 Graham 19 Ryan Companies	19 1 1 2 11 2 9 21	\$25,198, \$24,000, \$19,325, \$18,919, \$18,600, \$18,547,	
Total Residential Const Commercial Retail/Whsl/Dining/Personal Auto/Truck Sales & Service Other Non-Residential Buildings Comm Rmdi, Addn, Int Fin Total Commercial Const	Permits	\$1,596,378 \$188,319 \$89,269,394 \$473,420 \$91,527,504	0 0 0 0	Garage and Carp Year-to-Date 1: Builder Pe 1 Jerrys Homes Inc 2 Perry Reid 3 JCorp Inc	2/05/20 ermits 2 9	ilders 018 Value \$435,632 \$420,000 \$274,540	13 Tricon General 14 Altoona City Hall 15 The Walsh Group 16 Rick Novak Const 17 Venter Spooner Inc 18 Graham 19 Ryan Companies 20 Garling Construction	19 1 1 2 11 2 9 21	\$25,198, \$24,000, \$19,325, \$18,919, \$18,600, \$18,547,	
Total Residential Const Commercial Retail/Whsl/Dining/Personal Auto/Truck Sales & Service Other Non-Residential Buildings Comm Rmdi, Addn, Int Fin Total Commercial Const	Permits	\$1,596,378 \$188,319 \$89,269,394 \$473,420 \$91,527,504	0 0 0 0	Garage and Carp Year-to-Date 1: Builder 1 Jerrys Homes Inc 2 Perry Reid 3 JCorp Inc 4 TWG Development,	2/05/20 ermits 2 9 4	ilders 118 Value \$435,632 \$420,000 \$274,540 \$270,000	13 Tricon General 14 Altoona City Hall 15 The Walsh Group 16 Rick Novak Const 17 Venter Spooner Inc 18 Graham 19 Ryan Companies 20 Garling Construction	19 1 1 2 11 2 9 21 a uilders	\$25,198, \$24,000, \$19,325, \$18,919, \$18,600, \$18,547, \$18,502,	
Total Residential Const Commercial Retail/Whsl/Dining/Personal Auto/Truck Sales & Service Other Non-Residential Buildings Comm Rmdi, Addn, Int Fin Total Commercial Const	Permits	\$1,596,378 \$188,319 \$89,269,394 \$473,420 \$91,527,504	0 0 0 0	Garage and Carp Year-to-Date 1: Builder Pe 1 Jerrys Homes Inc 2 Perry Reid 3 JCorp Inc 4 TWG Development, 5 Homes by Dephillips 6 Jersen Group	2/05/20 ermits 2 9 4 1	Value \$435,632 \$420,000 \$274,540 \$270,000 \$150,000	13 Tricon General 14 Altoona City Hall 15 The Walsh Group 16 Rick Novak Const 17 Venter Spooner Inc 18 Graham 19 Ryan Companies 20 Garling Construction Owner-B Year-to-Date	19 1 2 11 2 9 21 a uilders	\$25,198, \$24,000, \$19,325, \$18,919, \$18,600, \$18,547, \$18,502,	
Total Residential Const Commercial Retail/Whsl/Dining/Personal Auto/Truck Sales & Service Other Non-Residential Buildings Comm Rmdi, Addn, Int Fin Total Commercial Const	Permits	\$1,596,378 \$188,319 \$89,269,394 \$473,420 \$91,527,504	0 0 0 0	Jova Garage and Carp Year-to-Date 1: Builder Pe 1 Jernys Homes Inc 2 Perry Reid 3 JCorp Inc 4 TWG Development, 5 Homes by Dephillips 6 Jersen Group 7 Ikerson Concrete	2/05/20 ermits 2 9 4 1 1	Value \$435,632 \$420,000 \$274,540 \$270,000 \$150,000 \$138,000	13 Tricon General 14 Altoona City Hall 15 The Walsh Group 16 Rick Novak Const 17 Venter Spooner Inc 18 Graham 19 Ryan Companies 20 Garling Construction low Owner-B Year-to-Date Construction Type	19 1 2 11 2 9 21 a uilders 12/05/20	\$25,198, \$24,000, \$19,325, \$18,919, \$18,600, \$18,547, \$18,502,	
Total Residential Const Commercial Retail/Whsl/Dining/Personal Auto/Truck Sales & Service Other Non-Residential Buildings Comm Rmdl, Addn, Int Fin Total Commercial Const	Permits	\$1,596,378 \$188,319 \$89,269,394 \$473,420 \$91,527,504	0 0 0 0	Garage and Carp Year-to-Date 1: Builder Pe 1 Jerrys Homes Inc 2 Perry Reid 3 JCorp Inc 4 TWG Development, 5 Homes by Dephillips 6 Jersen Group	2/05/20 ermits 2 9 4 1 1 1	Value \$435,632 \$420,000 \$274,540 \$270,000 \$150,000 \$138,000 \$81,114	13 Tricon General 14 Altoona City Hall 15 The Walsh Group 16 Rick Novak Const. 17 Venter Spooner Inc. 18 Graham 19 Ryan Companies 20 Garling Construction 10w Owner-B Year-to-Date Construction Type 1 Single Family	19 1 1 2 11 2 9 21 a uilders 12/05/20 Permits	\$25,198, \$24,000, \$19,325, \$18,919, \$18,600, \$18,547, \$18,502,	
Total Residential Const Commercial Retail/Whsl/Dining/Personal Auto/Truck Sales & Service Other Non-Residential Buildings Comm Rmdl, Addn, Int Fin Total Commercial Const	Permits	\$1,596,378 \$188,319 \$89,269,394 \$473,420 \$91,527,504	0 0 0 0	Jova Garage and Carp Year-to-Date 1: Builder 1 Jernys Homes Inc 2 Perny Reid 3 JCorp Inc 4 TWG Development, 5 Homes by Dephillips 6 Jensen Group 7 Ikerson Concrete 8 Jayz A Better 9 Affordable Const	2/05/20 ermits 2 9 4 1 1 1	Value \$435,632 \$420,000 \$274,540 \$270,000 \$150,000 \$138,000 \$81,114 \$80,000 \$79,714	13 Tricon General 14 Altoona City Hall 15 The Walsh Group 16 Rick Novak Const 17 Venter Spooner Inc 18 Graham 19 Ryan Companies 20 Garling Construction Owner-B Year-to-Date Construction Type 1 Single Family 2 Garages & Carports	19 1 1 2 11 2 9 21 a uilders 12/05/20 Permits 90 103	\$25,198, \$24,000, \$19,325, \$18,919, \$18,600, \$18,547, \$18,502,	
Total Residential Const Commercial Retail/Whsl/Dining/Personal Auto/Truck Sales & Service Other Non-Residential Buildings Comm Rmdl, Addn, Int Fin Total Commercial Const	Permits	\$1,596,378 \$188,319 \$89,269,394 \$473,420 \$91,527,504	0 0 0 0	Garage and Carp Year-to-Date 1: Builder Pe 1 Jerrys Homes Inc 2 Perry Reid 3 JCorp inc 4 TWG Development, 5 Homes by Dephillips 6 Jensen Group 7 Ikerson Concrete 8 Jayz A Better 9 Affordable Const 10 Edward Rose	2/05/20 ermits 2 9 4 1 1 1 1 1 5	Value \$435,632 \$420,000 \$274,540 \$270,000 \$150,000 \$181,000 \$31,114 \$80,000 \$79,714	13 Tricon General 14 Altoona City Hall 15 The Walsh Group 16 Rick Novak Const. 17 Venter Spooner Inc. 18 Graham 19 Ryan Companies 20 Garling Construction Owner-B Year-to-Date Construction Type 1 Single Family 2 Garages & Carports 3 Res Rmdi, Addn, Int.	19 1 1 2 11 2 9 21 a uillders 12/05/2/ Permits 90 103 558	\$25,198, \$24,000, \$19,325, \$18,919, \$18,600, \$18,547, \$18,502, 018 \$24,565, \$1,862, \$13,621,	
Total Residential Const Commercial Retail/Whsl/Dining/Personal Auto/Truck Sales & Service Other Non-Residential Buildings Comm Rmdl, Addn, Int Fin Total Commercial Const	Permits	\$1,596,378 \$188,319 \$89,269,394 \$473,420 \$91,527,504	0 0 0 0	Jova Garage and Carp Year-to-Date 1: Builder 1 Jernys Homes Inc 2 Perny Reid 3 JCorp Inc 4 TWG Development, 5 Homes by Dephillips 6 Jensen Group 7 Ikerson Concrete 8 Jayz A Better 9 Affordable Const	2/05/20 ermits 2/9 4 1 1 1 1 1 5	Value \$435,632 \$420,000 \$274,540 \$270,000 \$150,000 \$138,000 \$81,114 \$80,000 \$79,714	13 Tricon General 14 Altoona City Hall 15 The Walsh Group 16 Rick Novak Const 17 Venter Spooner Inc 18 Graham 19 Ryan Companies 20 Garling Construction Owner-B Year-to-Date Construction Type 1 Single Family 2 Garages & Carports	19 1 1 2 11 2 9 21 a uilders 12/05/20 Permits 90 103	\$25,198, \$24,000, \$19,325, \$18,919, \$18,600, \$18,547, \$18,502, 018 \$24,565, \$1,862, \$13,621,	
Total Residential Const Commercial Retail/Whsl/Dining/Personal Auto/Truck Sales & Service Other Non-Residential Buildings Comm Rmdi, Addn, Int Fin Total Commercial Const	Permits	\$1,596,378 \$188,319 \$89,269,394 \$473,420 \$91,527,504	0 0 0 0	Iowa Garage and Carp Year-Io-Date 1: Builder Pe 1 Jerrys Homes Inc 2 Perry Reid 3 JCorp Inc 4 TWG Development, 5 Homes by Dephillips 6 Jensen Group 7 Ikerson Concrete 8 Jayz A Better 9 Affordable Const 10 Edward Rose 11 Coach House	2/05/20 ermits 2 9 4 1 1 1 1 5 1 3	Value \$435.632 \$420.000 \$274.540 \$270.000 \$150.000 \$138.000 \$31,114 \$80.000 \$79.714 \$75.510 \$55.862	13 Tricon General 14 Altona City Hall 15 The Walsh Group 16 Rick Novak Const. 17 Venter Spooner Inc. 18 Graham 19 Ryan Companies 20 Garling Construction Owner-B Construction Type 1 Single Family 2 Garages & Carports 3 Res Rmdi, Addn, Int 4 Commercial low Commercial	19 1 1 2 11 2 9 21 a uilders 12/05/2/ Pemits 90 103 558 51	\$25,198, \$24,000, \$19,325, \$18,919, \$18,600, \$18,547, \$18,502, \$18,662, \$1,862, \$13,621, \$3,969,	
Total Residential Const Commercial Retail/Whsl/Dining/Personal Auto/Truck Sales & Service Other Non-Residential Buildings Comm Rmdl, Addn, Int Fin Total Commercial Const	Permits	\$1,596,378 \$188,319 \$89,269,394 \$473,420 \$91,527,504	0 0 0 0	Garage and Carp Year-to-Date 1: Builder Pe 1 Jerrys Homes Inc 2 Perry Reld 3 JCorp inc 4 TWG Development, 5 Homes by Dephillips 6 Jersen Group 7 Ikerson Concrete 8 Jayz A Better 9 Affordable Const 10 Edward Rose 11 Coach House Iowa Residential E Week 49 - 11/29/11	2/05/20 ermits 2 9 4 1 1 1 1 5 1 3	Value \$435.632 \$420.000 \$274.540 \$270.000 \$150.000 \$138.000 \$31,114 \$80.000 \$79.714 \$75.510 \$55.862	13 Tricon General 14 Altoona City Hall 15 The Walsh Group 16 Rick Novak Const. 17 Venter Spooner Inc. 18 Graham 19 Ryan Companies 20 Garling Construction Owner-B Year-to-Date Construction Type 1 Single Family 2 Garages & Carports 3 Res Rmdl, Addn, Int. 4 Commercial Week 49 - 11/29	19 1 1 2 11 2 9 21 a uilders 12/05/2/ Pemits 90 103 558 51	V \$24,565, \$1,862, \$13,621, \$3,969,	
Total Residential Const Commercial Retail/Whsl/Dining/Personal Auto/Truck Sales & Service Other Non-Residential Buildings Comm Rmdi, Addn, Int Fin Total Commercial Const	Permits	\$1,596,378 \$188,319 \$89,269,394 \$473,420 \$91,527,504	0 0 0 0	Jova Garage and Carp Year-to-Date 1: Builder Pe 1 Jernys Homes Inc 2 Perry Reid 3 JCorp Inc 4 TWG Development, 5 Homes by Dephillips 6 Jensen Group 7 Ikerson Concrete 8 Jayz A Better 9 Affordable Const 10 Edward Rose 11 Coach House Jova Residential E Week 49 - 11/29/1 Builder Pe	2/05/20 ermits 2 9 4 1 1 1 1 5 1 3 3 Builder: 8 to 12/ermits	\$435.632 \$420.000 \$274.540 \$270.000 \$150.000 \$150.000 \$150.000 \$79.714 \$75.510 \$55.862 \$\$\text{Value}\$	13 Tricon General 14 Altoona City Hall 15 The Walsh Group 16 Rick Novak Const 17 Venter Spooner Inc 18 Graham 19 Ryan Companies 20 Garling Construction Owner-B Year-to-Date Construction Type 1 Single Family 2 Garages & Carports 3 Res Rmdi, Addn, Int 4 Commercial low Commercial Week 49 - 11/29/ Builder	19 1 1 2 11 2 9 21 a wilders 12/05/2/ Permits 90 103 558 51 a I Builde 18 to 12 Permits	\$25,198, \$24,000, \$19,925, \$19,925, \$18,919, \$18,600, \$18,507, \$18,502, \$18,502, \$18,502, \$1,862, \$1,862, \$1,862, \$13,621, \$3,969, \$15,502, \$10,621, \$1,862, \$10,621, \$1,862, \$10,621, \$1,862, \$10,621, \$1,862, \$10,621, \$1,862, \$10,621, \$1,862, \$10,621, \$10,	
Total Residential Const Commercial Retail/Whsl/Dining/Personal Auto/Truck Sales & Service Other Non-Residential Buildings Comm Rmdi, Addn, Int Fin Total Commercial Const	Permits	\$1,596,378 \$188,319 \$89,269,394 \$473,420 \$91,527,504	0 0 0 0	Iowa Garage and Carp Year-Io-Date 1: Builder Pe 1 Jerrys Homes Inc 2 Perry Reid 3 JCorp Inc 4 TWG Development, 5 Homes by Dephillips 6 Jensen Group 7 Ikerson Concrete 8 Jayz A Better 9 Affordable Const 10 Edward Rose 11 Coach House Iowa Residential E Week 49 - 11/29/1 Builder Pe 1 Rochno Corp of	2/05/20 ermits 2/9 4 1 1 1 1 5 1 3 Builder: 8 to 12/ermits	\$10 Value \$435.632 \$420.000 \$274.540 \$270.000 \$150.000 \$138.000 \$79.714 \$80.000 \$79.714 \$75.510 \$55.862 \$\$ Value \$5,513,439	13 Tricon General 14 Altona City Hall 15 The Walsh Group 16 Rick Novak Const. 17 Venter Spooner Inc. 18 Graham 19 Ryan Companies 20 Garling Construction Owner-B Year-to-Date Construction Type 1 Single Family 2 Garages & Carports 3 Res Rmdi, Addn, Int 4 Commercial Week 49 - 11/29/ Builder 1 Larson Construction	19 1 1 2 11 2 9 21 a uillders 12/05/21 Permits 90 103 558 51 a I Builde a I Builde 2 Permits	\$25,198, \$24,000, \$19,925, \$18,919, \$18,600, \$18,547, \$18,502, \$18,602, \$1,862, \$1,862, \$1,862, \$1,9621, \$3,969, \$18,547, \$18,502, \$1,8621	
Total Residential Const Commercial Retail/Whsl/Dining/Personal Auto/Truck Sales & Service Other Non-Residential Buildings Comm Rmdi, Addn, Int Fin Total Commercial Const	Permits	\$1,596,378 \$188,319 \$89,269,394 \$473,420 \$91,527,504	0 0 0 0	Garage and Carp Year-to-Date 1: Builder Pe 1 Jerrys Homes Inc 2 Perry Reid 3 JCorp Inc 4 TWG Development, 5 Homes by Dephillips 6 Jensen Group 7 Ikerson Concrete 8 Jayz A Better 9 Affordable Const 10 Edward Rose 11 Coach House Iowa Residential E Week 49 - 11/29/1 Builder 1 Rochon Corp of 2 Denlon Homes	2/05/20 ermits 2/9 4 1 1 1 1 1 5 1 3 Builder: 8 to 12/ermits 1 3	Value \$435.632 \$420.000 \$274,540 \$270.000 \$138,000 \$138,000 \$79,714 \$75,510 \$55,862 \$\$ Value \$5,513,439 \$1,674,136	13 Tricon General 14 Altoona City Hall 14 Altoona City Hall 15 The Walsh Group 16 Rick Novak Const. 17 Venter Spooner Inc. 18 Graham 19 Ryan Companies 20 Garling Construction Iow Owner-Bi Year-to-Date Construction Type 1 Single Family 2 Garages & Carports 3 Res Rmd, Addn, Int 4 Commercial Iow Commercial Iow Commercial Week 49 - 11/29 Builder 1 Larson Construction 2 Downing Const Inc.	19 1 1 2 11 2 9 21 a uilders 12/05/20 Permits 90 103 558 51 a I Builde [18 to 12 Permits 2 2	\$25,198, \$24,000, \$19,325, \$18,919, \$18,600, \$18,502, \$18	
Total Residential Const Commercial Retail/Whsl/Dining/Personal Auto/Truck Sales & Service Other Non-Residential Buildings Comm Rmdi, Addn, Int Fin Total Commercial Const	Permits	\$1,596,378 \$188,319 \$89,269,394 \$473,420 \$91,527,504	0 0 0 0	Iowa Garage and Carp Year-Io-Date 1: Builder Pe 1 Jerrys Homes Inc 2 Perry Reid 3 JCorp Inc 4 TWG Development, 5 Homes by Dephillips 6 Jensen Group 7 Ikerson Concrete 8 Jayz A Better 9 Affordable Const 10 Edward Rose 11 Coach House Iowa Residential E Week 49 - 11/29/1 Builder Pe 1 Rochon Corp of 2 Denion Homes 3 Happe Homes LLP	2005/20 ermits 2 9 4 1 1 1 1 1 5 1 3 Builder: 8 to 12/ermits 1 3 7	\$10 Value \$435.632 \$420.000 \$274.540 \$270.000 \$138.000 \$31.114 \$80.000 \$79.715.10 \$55.862 \$\$1,513.439 \$1,674.136 \$1,404.336	13 Tricon General 14 Altona City Hall 15 The Walsh Group 16 Rick Novak Const. 17 Venter Spooner Inc. 18 Graham 19 Ryan Companies 20 Garling Construction Owner-B Year-to-Date Construction Type 1 Single Family 2 Garages & Carports 3 Res Rmdi, Addn, Int 4 Commercial Week 49 - 11/29/ Builder 1 Larson Construction 2 Downing Const Inc. 3 Surset Crest Retail,	19 1 1 2 11 2 9 21 a wilders 12/05/20 Permits 90 103 558 51 a I Builde 18 to 12 Permits 2 2 2	\$25,198, \$24,000, \$19,325, \$18,919, \$18,600, \$18,547, \$18,502, \$18,602, \$13,621, \$205/18 V\$ \$85,545, \$1,962, \$13,621, \$1,502,	
Total Residential Const Commercial Retail/Whsl/Dining/Personal Auto/Truck Sales & Service Other Non-Residential Buildings Comm Rmdi, Addn, Int Fin Total Commercial Const	Permits	\$1,596,378 \$188,319 \$89,269,394 \$473,420 \$91,527,504	0 0 0 0	Iowa Garage and Carp Year-to-Date 1: Builder Pe 1 Jerrys Homes Inc 2 Perry Reid 3 JCorp Inc 4 TWG Development, 5 Homes by Dephillips 6 Jensen Group 7 Ikerson Concrete 8 Jayz A Better 9 Affordable Const 10 Edward Rose 11 Coach House Iowa Residential E Week 49 - 11/29/1 Builder Pe 1 Rochon Corp of 2 Denlon Homes 3 Happe Homes LLP 4 Jerrys Homes Inc	port Bui 2/05/20 ermits 2 9 4 1 1 1 1 5 1 3 Builder: 8 to 12/ ermits 1 3 7	Value \$435.632 \$420.000 \$274,540 \$270.000 \$138.000 \$138.000 \$79,714 \$75,510 \$55,862 \$\$0.0518\$ Value \$5,513,439 \$1,674,136 \$1,1253,032	13 Tricon General 14 Altoona City Hall 15 The Walsh Group 16 Rick Novak Const. 17 Venter Spooner Inc. 18 Graham 19 Ryan Companies 20 Garling Construction Low Owner-B Year-to-Date Construction Type 1 Single Family 2 Garages & Carports 3 Res Rmdl, Addn, Int. 4 Commercial Week 49 - 11/29 Builder 1 Larson Construction 2 Downing Const Inc. 3 Sunset Crest Retail, 4 McCon Building Copn	19 1 1 2 11 2 9 21 a uiliders 12/05/2/ Permits 90 103 558 51 a I Builde 1/8 to 12 Permits 2 2 1 1 1 2 1 2 2 2 1 1 1	\$25,198, \$24,000, \$19,325, \$18,919, \$18,600, \$18,547, \$18,502, \$18,502, \$18,502, \$1,56	
Total Residential Const Commercial Retail/Whsl/Dining/Personal Auto/Truck Sales & Service Other Non-Residential Buildings Comm Rmdi, Addn, Int Fin Total Commercial Const	Permits	\$1,596,378 \$188,319 \$89,269,394 \$473,420 \$91,527,504	0 0 0 0	Iowa Garage and Carp Year-to-Date 1: Builder Pe 1 Jerrys Homes Inc 2 Perry Reid 3 JCorp Inc 4 TWG Development, 5 Homes by Dephillips 6 Jensen Group 7 Ikerson Concrete 8 Jayz A Better 9 Affordable Const 10 Edward Rose 11 Coach House Iowa Residential E Week 49 - 11/29/1 Builder Pe 1 Rochon Corp of 2 Denion Homes 3 Happe Homes LLP 4 Jerrys Homes Inc 5 Greenland Homes	ort Buil 2/105/20 ermits 2 9 4 1 1 1 1 1 5 1 3 8 to 12.2 ermits 1 3 7 6 6	State	13 Tricon General 14 Altona City Hall 14 Altona City Hall 15 The Walsh Group 16 Rick Novak Const. 17 Venter Spooner Inc. 18 Graham 19 Ryan Companies 20 Garling Construction Iow Owner-Bi	19 1 1 2 11 1 2 9 21 a uilders 90 103 558 51 a Builders 18 to 12 Demits 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$25,198, \$24,000, \$19,325, \$18,919, \$18,600, \$18,547, \$18,502, \$1,862, \$1,862, \$1,862, \$1,962, \$1,962, \$1,962, \$1,962, \$1,962, \$1,962, \$1,593, \$917, \$614, \$238, \$24,661, \$1,593, \$1,5	
Total Residential Const Commercial Retail/Whsl/Dining/Personal Auto/Truck Sales & Service Other Non-Residential Buildings Comm Rmdl, Addn, Int Fin Total Commercial Const	Permits	\$1,596,378 \$188,319 \$89,269,394 \$473,420 \$91,527,504	0 0 0 0	Iowa Garage and Carp Year-to-Date 1: Builder Pe 1 Jerrys Homes Inc 2 Perry Reid 3 JCorp Inc 4 TWG Development, 5 Homes by Dephillips 6 Jensen Group 7 Ikerson Concrete 8 Jayz A Better 9 Affordable Const 10 Edward Rose 11 Coach House Iowa Residential E Week 49 - 11/29/1 Builder Pe 1 Rochon Corp of 2 Denton Homes 1 Homes LLP 4 Jerrys Homes Inc 5 Greenland Homes 6 Happe Homes LC	ort Bui 2/05/20 ermits 2 9 4 1 1 1 1 1 5 1 3 3 Builders 8 to 12: ermits 1 3 7 6 6	\$10 Value \$435.632 \$420,000 \$274,540 \$270,000 \$150,000 \$11,114 \$75,510 \$55,862 \$\$\$\$ Value \$5,513,439 \$1,674,136 \$1,253,032 \$1,253,03	13 Tricon General 14 Altoona City Hall 15 The Walsh Group 16 Rick Novak Const. 17 Venter Spooner Inc. 18 Graham 19 Ryan Companies 20 Garling Construction 10w Owner-B Year-to-Date Construction Type 1 Single Family 2 Garages & Carports 3 Res Rmdl, Addn, Int 4 Commercial Commercial	19 1 1 2 2 11 2 9 21 a wilders 12/05/2/2 Pemits 90 103 558 51 a Builded 18 to 12/05/2/2 1 1 1 1 1 1 1 1	\$25,198, \$24,000, \$19,325, \$18,919, \$18,600, \$18,547, \$18,502, \$18,502, \$18,621, \$3,969, \$18,547, \$1,862, \$1,862, \$1,862, \$1,862, \$1,593, \$1,5	
Total Residential Const Commercial Retail/Whsl/Dining/Personal Auto/Truck Sales & Service Other Non-Residential Buildings Comm Rmdl, Addn, Int Fin Total Commercial Const	Permits	\$1,596,378 \$188,319 \$89,269,394 \$473,420 \$91,527,504	0 0 0 0	Iowa Garage and Carp Year-to-Date 1: Builder Pe 1 Jerrys Homes Inc 2 Perry Reid 3 JCorp Inc 4 TWG Development, 5 Homes by Dephillips 6 Jersen Group 7 Ikerson Concrete 8 Jayz A Better 9 Affordable Const 10 Edward Rose 11 Coach House Iowa Residential E Week 49 - 11/29/1 Builder Pe 1 Rochon Corp of 2 Denton Homes 3 Happe Homes LLP 4 Jerrys Homes LLP 5 Greenland Homes 6 Happe Homes LLC 7 Classic Builders Inc 6 Happe Homes LLC 7 Classic Builders Inc	2/05/20 2/05/20 2 9 4 1 1 1 1 5 1 3 Builder: 1 3 7 6 6 6 4 2	\$10 Value \$435.632 \$420,000 \$274,540 \$270,000 \$150,000 \$150,000 \$79,714 \$75,510 \$55,862 \$1,674,136 \$1,404,336 \$1,253,032 \$1,253,038	13 Tricon General 14 Altona City Hall 14 Altona City Hall 15 The Walsh Group 16 Rick Novak Const. 17 Venter Spooner Inc. 18 Graham 19 Ryan Companies 20 Garling Construction Iow Owner-Bi	19 1 1 2 11 1 2 9 21 a uilders 90 103 558 51 a Builders 18 to 12 Demits 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$25,198, \$24,000, \$19,325, \$18,919, \$18,600, \$18,547, \$18,502, \$1,862, \$1,862, \$1,862, \$1,962, \$1,962, \$1,962, \$1,962, \$1,962, \$1,962, \$1,593, \$917, \$614, \$238, \$24,661, \$1,593, \$1,5	
Total Residential Const Commercial Retail/Whsl/Dining/Personal Auto/Truck Sales & Service Other Non-Residential Buildings Comm Rmdl, Addn, Int Fin Total Commercial Const	Permits	\$1,596,378 \$188,319 \$89,269,394 \$473,420 \$91,527,504	0 0 0 0	Iowa Garage and Carp Year-Io-Date 1: Builder Pe 1 Jerrys Homes Inc 2 Perry Reid 3 JCorp Inc 4 TWG Development, 5 Homes by Dephillips 6 Jensen Group 7 Ikerson Concrete 8 Jayz A Better 9 Affordable Const 10 Edward Rose 11 Coach House Iowa Residential E Week 49 - 11/29'1 Builder Pe 1 Rochon Corp of 2 Denton Homes 1 Homes LLP 4 Jerrys Homes Inc 5 Greenland Homes 6 Happe Homes LLC 7 Classic Builders Inc 8 Colonial Homes	oort Buil 2/05/20 ermits 2 9 4 1 1 1 1 1 5 1 3 3 Builders 8 to 12/ ermits 1 3 7 6 6 4 4 2 1	\$10 Value \$435.632 \$420.000 \$274.540 \$270.000 \$150.000 \$138.000 \$79.714 \$80.000 \$79.714 \$75.510 \$55.862 \$\$1,404.336 \$1,223.688 \$653,734 \$526.498 \$454.000	13 Tricon General 14 Altoona City Hall 15 The Walsh Group 16 Rick Novak Const. 17 Venter Spooner Inc. 18 Graham 19 Ryan Companies 20 Garling Construction 10w Owner-B Year-to-Date Construction Type 1 Single Family 2 Garages & Carports 3 Res Rmdl, Addn, Int 4 Commercial Commercial	19 1 1 2 2 11 2 9 21 a wilders 12/05/2/2 Pemits 90 103 558 51 a Builded 18 to 12/05/2/2 1 1 1 1 1 1 1 1	\$25,198, \$24,000, \$19,325, \$18,919, \$18,600, \$18,547, \$18,502, \$18,502, \$18,621, \$3,969, \$18,547, \$1,862, \$1,862, \$1,862, \$1,862, \$1,593, \$1,5	
Total Residential Const Commercial Retail/Whsl/Dining/Personal Auto/Truck Sales & Service Other Non-Residential Buildings Comm Rmdi, Addn, Int Fin Total Commercial Const	Permits	\$1,596,378 \$188,319 \$89,269,394 \$473,420 \$91,527,504	0 0 0 0	Iowa Garage and Carp Year-to-Date 1: Builder Pe 1 Jerrys Homes Inc 2 Perry Reid 3 JCorp Inc 4 TWG Development, 5 Homes by Dephillips 6 Jersen Group 7 Ikerson Concrete 8 Jayz A Better 9 Affordable Const 10 Edward Rose 11 Coach House Iowa Residential E Week 49 - 11/29/1 Builder Pe 1 Rochon Corp of 2 Denton Homes 3 Happe Homes LLP 4 Jerrys Homes LLP 5 Greenland Homes 6 Happe Homes LLC 7 Classic Builders Inc 6 Happe Homes LLC 7 Classic Builders Inc	2/05/20 2/05/20 2 9 4 1 1 1 1 5 1 3 Builder: 1 3 7 6 6 6 4 2	\$10 Value \$435.632 \$420,000 \$274,540 \$270,000 \$150,000 \$150,000 \$79,714 \$75,510 \$55,862 \$1,674,136 \$1,404,336 \$1,253,032 \$1,253,038	13 Tricon General 14 Altoona City Hall 15 The Walsh Group 16 Rick Novak Const. 17 Venter Spooner Inc. 18 Graham 19 Ryan Companies 20 Garling Construction 10w Owner-B Year-to-Date Construction Type 1 Single Family 2 Garages & Carports 3 Res Rmdl, Addn, Int 4 Commercial Commercial	19 1 1 2 2 11 2 9 21 a wilders 12/05/2/2 Pemits 90 103 558 51 a Builded 18 to 12/05/2/2 1 1 1 1 1 1 1 1	\$25,198, \$24,000, \$19,325, \$18,919, \$18,600, \$18,547, \$18,502, \$18,502, \$18,621, \$3,969, \$18,547, \$1,862, \$1,862, \$1,862, \$1,862, \$1,593, \$1,5	

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Source: Construction Monitor 2018

Table 17. 2018 North Dakota Building Permit Summary

North Dakota Building Permit Summary				North Da Single Family Year-to-Date 1	Builde	18	Multi-Family	North Dakota Multi-Family Builders Year-to-Date 12/05/2018		
North Dakota Buildi	na Perm	it Summary		Builder	Homes	Value	Builder	Units	Valu	
Year-to-Date				1 Jordahl Custom	159	\$34,083,250	1 Enclave	222	\$17,624,00	
	Permits	Value	Units	2 Thomsen Homes LLC	144	\$27,254,300	2 Dietrich Const Co	174	\$11,247,29	
Single Family Homes	1,246	\$291,952,410	1250	3 Brookstone Property	69	\$11,406,080	3 Kilbourne Const	139	\$11,100,69	
Duplexes & Twin Homes	50	\$10.367.978	100	4 Verity Homes Inc	43	\$8,676,323	4 Roers Const Co LLC		\$9,897,74	
Apartments & Condos	38	\$106,283,166	1300	5 Dabbert Custom	41	\$7,749,200	5 Terry Welle	81	\$7,699,00	
	195		0	6 Heritage Homes LLC 7 Verity Homes of	23 27	\$7,378,000 \$5,242,943	6 Eagleridge Partners	88	\$6,800,00	
Other Residential Structures		\$3,827,483		8 Platinum Home Contr	20	\$5,242,943 \$5,159,000	7 FMI Constr LLC	84	\$6,700,00	
Swimming Pools & Spas	23	\$852,813	0	9 Krueger Const Inc	12	\$4,872,000	8 MBA Development 9 DFI AU LLC	80 76	\$6,400,00	
Garages & Carports	262	\$5,688,330	0	10 Titan Homes Inc	10	\$4,634,000	10 Eagle Ridge	76 5	\$6,111,56 \$6,000,00	
Res Rmdl, Addn, Int Fin	1,490	\$32,533,641	0	11 Chris Hawley	1	\$4,100,000			\$6,000,0	
Reroof Residential	3	\$37,926	0	12 Limelight Builders	15	\$3,939,995	North D			
Total Residential Const	3,307	\$451,543,712	2,650	13 K&L Homes Inc	19	\$3,935,108	Other Residen			
Commercial	Permits	Value	Units	14 Sattler Homes Inc	18	\$3,914,164	Year-to-Date			
Offic es/Banks/R&D/Professional	19	\$11,903,177	0	15 Venture Homes LLC	11	\$3,298,050		Permits	Val	
Retail/Whsl/Dining/Personal	34	\$39,385,220	0	16 Monarch Homes LLC	11	\$3,051,000	1 Hight Construction	2	\$1,018,0	
Mixed Use	1	\$7.500.000	30	17 Huntington Homes	15	\$3,000,000	2 Kochmann Brothers	6	\$665,3	
Auto/Truck Sales & Service	3	\$8,850,000	0	18 Diversity Homes Inc	12	\$2,566,867	3 Goldmark	2	\$569,0	
Parking Structures & Carports	2	\$340.000	0	19 Investcore Inc	13	\$2,514,728	4 Accent Contracting	27	\$525,0	
	17	\$14,680,214	0	20 Apex Builders LLC	10	\$2,374,749	5 Schmit Brothers	10	\$502,0	
Indus-Manuf, Whse-Shops,	7		0	21 Tomlinson & Sons Inc	2	\$2,336,500	6 ABC Seamless 7 Ready Builders	22 2	\$398,8 \$395,0	
Hospitals & Other Institutions		\$66,058,205		22 Seacrest Custom	7	\$2,155,175	8 Azure Const	1	\$395,0	
Churches & Other Religious	1	\$8,685,000	0	23 Designer Homes Of 24 John Schneider Const	5 7	\$2,134,000 \$2,032,015	9 Premium Decks Inc	23	\$349,5	
Private Schools & Day Care	1	\$500,000	0	25 EID Co Buildings Inc	9	\$1,995,237	10 T&S Custom Homes	4	\$321,0	
Public Buildings & Projects	9	\$45,173,780	0	26 J&L Construction	14	\$1,990,237	11 Rick Halvorson Cons		\$317,2	
Utilities (gas elect wtr swr)	4	\$5,148,609	0	27 Kochmann Brothers	4	\$1,930,000	12 Jordahl Custom	12	\$307,4	
Parks, Recreation, Entertain,	6	\$3,303,260	0	28 Joe Vetter	9	\$1,916,423	13 Bob Footitt Const Inc	1	\$300,0	
Agricultural Buildings & Sheds	31	\$575,623	0	29 J E Properties	9	\$1,889,500	14 Craft Builders	3	\$288,0	
Other Non-Residential Buildings	91	\$52,588,849	0	30 Equity Home Builders	6	\$1,845,000	15 Huntington Homes	2	\$285,0	
Comm Structures Other Than	95	\$31,083,889	0	31 Crist Const Inc	4	\$1,580,800	16 Sandin Family RLT	1	\$275,0	
Comm Rmdl, Addn, Int Fin	764	\$192,777,581	0	32 Holly & Company	4	\$1,580,000	17 KRO Rentals LLP	1	\$265,0	
Reroof Commercial	9	\$679,215	0	33 Footitt Homes Inc	2	\$1,579,000	18 Dan Lindquist Const	5	\$264,0	
Total Commercial Const	1.094	\$489,232,608	30	34 Rusch Homes LLC	7	\$1,553,129	19 Mindt Const	2	\$255,0	
	Permits	Value	Units	35 Radiant Creative	2	\$1,450,000	20 Luxury Builders Inc	6	\$253,0	
Alternative Residential Energy	Permits 1	\$5,000	011118	36 Four Seasons Const	18	\$1,403,000	21 Eclipse Carpentry 22 Renovare LLC	6	\$248,4	
			0	37 Copper Ridge Design	7	\$1,400,000	23 John Schneider	1	\$247,0 \$235,8	
Alternative Commercial Energy	3	\$60,000		38 Dietrich Const Co 39 Stoneshire Builders	2 6	\$1,370,000 \$1,283,827	23 Julii Scilledei		\$230,0	
Total Solar Const	4	\$65,000	0	40 Plecity Kowalski	2	\$1,203,027	North D	akota		
Total North Dakota Const	4,405	\$940,841,344	2,680	41 Hallmark Homes	4	\$1,223,887	Commercia	l Builde		
				42 Legend Homes Inc	4	\$1,182,611	Year-to-Date	12/05/20)18	
				43 Adams Development	6	\$1,134,000		Permits	Va	
				44 Tooz Const Inc	1	\$1,111,111	1 Yates-Northwest, A	2	\$47,280,0	
North Dakota Buildi	ng Perm	it Summary		45 PrairieLand Homes	6	\$1,104,000	2 McGough	7	\$32,515,7	
Week 49 - 11/29/18 to 12/0			0)	46 Bachmeier Custom	4	\$1,100,000	3 PKG Contracting &	2	\$27,407,0	
	Permits		Units	47 Terry Becker	2	\$1,077,583	4 Mortenson	4	\$22,050,0	
Single Family Homes	33	\$7,685,593		48 Sullivan Construction	4	\$1,063,520	5 Olaf Anderson Const 6 Meinecke Johnson	30 10	\$18,004,0 \$13,765,3	
Footing & Foundation	1	\$5,000	0	49 Windows Plus Inc 50 Schwab Messer	5 4	\$1,030,000 \$1,012,998	7 Park Const Co	1	\$13,549,9	
Swimming Pools & Spas	1	\$20,000		51 Olaf Anderson Const	1	\$1,000,000	8 Lee Jones & Son	5	\$12,791,7	
Garages & Carports	9	\$265,202		52 A&R Drywall	3	\$999,000	9 Gehrtz Const	15	\$12,599,6	
Res Rmdl, Addn, Int Fin	44	\$468,236		53 Knutson Homes Inc	5	\$994,913	10 CRG Inc	7	\$11,471,0	
Total Residential Const	88	\$8,444,031	33	54 K & B Homes	4	\$992,554	11 Paces Lodging Corp	20	\$8,884,0	
				55 Creative Touch	3	\$983,105	12 Gast Construction	6	\$8,588,3	
	Permits	Value					13 Kiehm Const	1	\$8,000,0	
Demolition (Commercial)	1	\$0	0	North Da	kota		14 Rolac Contrinc	13	\$7,983,5	
Footing & Foundation	1	\$33,650	0	Garage and Carp	ort Bu		15 JE Dunn Const	3	\$7,708,6	
Retail/Whsl/Dining/Personal	1	\$5,000	0	Year-to-Date 1		18	16 Enclave	28	\$7,352,6	
Hospitals & Other Institutions	1	\$500,000	0		emits	Value	17 Enclave	3	\$7,167,9	
Agricultural Buildings & Sheds	2	\$70,000	0	1 Hopfauf Custom	1	\$203,637	18 Kolling & Kolling Inc 19 Roers Const Co LLC	7 18	\$7,007,4 \$6,889,3	
Other Non-Residential Buildings	5	\$2,975,000	0	2 Craft Builders	1	\$186,000	20 MBA Development	13	\$6,884,1	
			0	3 JNR Construction	1	\$145,000			₩5,00 4 , I	
Comm Structures Other Than	1	\$293,900						akota		
Comm Structures Other Than Comm Rmdl, Addn, Int Fin	27	\$4,267,649	0	4 Venable Enterprises	1	\$123,000	North D			
Comm Structures Other Than			0	4 Venable Enterprises 5 Marc Davis	1	\$123,000 \$117,555	Owner-B	uilders	140	
Comm Structures Other Than Comm Rmdl, Addn, Int Fin	27	\$4,267,649	0	4 Venable Enterprises 5 Marc Davis 6 Morton Buildings Inc	1 1 2	\$123,000 \$117,555 \$117,458	Owner-B Year-to-Date	uilders 12/05/20		
Comm Structures Other Than Comm Rmdl, Addn, Int Fin Total Commercial Const	27 39	\$4,267,649 \$8,145,199	0	4 Venable Enterprises 5 Marc Davis 6 Morton Buildings Inc 7 Mindt Const	1 1 2 3	\$123,000 \$117,555 \$117,458 \$103,000	Owner-B Year-to-Date Construction Type	uilders 12/05/20 Permits	Va	
Comm Structures Other Than Comm Rmdl, Addn, Int Fin Total Commercial Const	27 39	\$4,267,649 \$8,145,199	0	4 Venable Enterprises 5 Marc Davis 6 Morton Buildings Inc 7 Mindt Const 8 Chapple Carpentry	1 1 2 3 1	\$123,000 \$117,555 \$117,458 \$103,000 \$99,187	Owner-B Year-to-Date Construction Type 1 Single Family	uilders 12/05/20 Permits 81	\$17,719,9	
Comm Structures Other Than Comm Rmdl, Addn, Int Fin Total Commercial Const	27 39	\$4,267,649 \$8,145,199	0	4 Venable Enterprises 5 Marc Davis 6 Morton Buildings Inc 7 Mindt Const 8 Chapple Carpentry 9 Meadowlands Park	1 1 2 3 1	\$123,000 \$117,555 \$117,458 \$103,000 \$99,187 \$97,000	Owner-B Year-to-Date Construction Type 1 Single Family 2 Garages & Carports	uilders 12/05/20 Permits 81 146	Va \$17,719,9 \$2,579,7	
Comm Structures Other Than Comm Rmdl, Addn, Int Fin Total Commercial Const	27 39	\$4,267,649 \$8,145,199	0	4 Venable Enterprises 5 Marc Davis 6 Morton Buildings Inc 7 Mindt Const 8 Chapple Carpentry 9 Meadowlands Park 10 Goebel Construction	1 1 2 3 1	\$123,000 \$117,555 \$117,458 \$103,000 \$99,187 \$97,000 \$91,655	Owner-B Year-to-Date Construction Type 1 Single Family 2 Garages & Carports 3 Res Rmdl, Addn, Int	uilders 12/05/20 Permits 81 146 582	\$17,719,9 \$2,579,7 \$8,828,8	
Comm Structures Other Than Comm Rmdl, Addn, Int Fin Total Commercial Const	27 39	\$4,267,649 \$8,145,199	0	4 Venable Enterprises 5 Marc Davis 6 Morton Buildings Inc 7 Mindt Const 8 Chapple Carpentry 9 Meadowlands Park	1 1 2 3 1 6 2	\$123,000 \$117,555 \$117,458 \$103,000 \$99,187 \$97,000	Owner-B Year-to-Date Construction Type 1 Single Family 2 Garages & Carports	uilders 12/05/20 Permits 81 146	\$17,719,9 \$2,579,7 \$8,828,8	
Comm Structures Other Than Comm Rmdl, Addn, Int Fin Total Commercial Const	27 39	\$4,267,649 \$8,145,199	0	4 Venable Enterprises 5 Marc Davis 6 Morton Buildings Inc 7 Mindt Const 8 Chapple Carpentry 9 Meadowlands Park 10 Goebel Construction 11 Shaun Kessler North Da	1 1 2 3 1 6 2 1	\$123,000 \$117,555 \$117,458 \$103,000 \$99,187 \$97,000 \$91,655 \$87,400	Owner-B Year-to-Date Construction Type 1 Single Family 2 Garages & Carports 3 Res Rmdl, Addn, Int 4 Commercial	uilders 12/05/20 Permits 81 146 582 57 akota	Va \$17,719,9 \$2,579,7 \$8,828,8 \$1,692,2	
Comm Structures Other Than Comm Rmdl, Addn, Int Fin Total Commercial Const	27 39	\$4,267,649 \$8,145,199	0	4 Venable Enterprises 5 Mart Davis 6 Morton Buildings Inc 7 Mindt Const 8 Chapple Carpentry 9 Meadowlands Park 10 Goebel Construction 11 Shaun Kessler North Da Residential	1 1 2 3 1 6 2 1 kota Builder	\$123,000 \$117,555 \$117,458 \$103,000 \$99,187 \$97,000 \$91,655 \$87,400	Owner-B Year-to-Date Construction Type 1 Single Family 2 Garages & Carports 3 Res Rmdi, Addn, Int 4 Commercial North D Commercia	uilders 12/05/20 Permits 81 146 582 57 akota I Builde	Va \$17,719,9 \$2,579,7 \$8,828,8 \$1,692,2	
Comm Structures Other Than Comm Rmdl, Addn, Int Fin Total Commercial Const	27 39	\$4,267,649 \$8,145,199	0	4 Venable Enterprises 5 Marc Davis 6 Morton Buildings Inc 7 Mindt Const 8 Chapple Carpentry 9 Meadowlands Park 10 Goebel Construction 11 Shaun Kessler North Da	1 1 2 3 1 6 2 1 kota Builder	\$123,000 \$117,555 \$117,458 \$103,000 \$99,187 \$97,000 \$91,655 \$87,400	Owner-B Year-to-Date Construction Type 1 Single Family 2 Garages & Carports 3 Res Rmdl, Addn, Int 4 Commercial North D Commercia Week 49 - 11/29	uilders 12/05/20 Permits 81 146 582 57 akota I Builde /18 to 12	Va \$17,719,9 \$2,579,7 \$8,828,8 \$1,692,2	
Comm Structures Other Than Comm Rmdl, Addn, Int Fin Total Commercial Const	27 39	\$4,267,649 \$8,145,199	0	4 Venable Enterprises 5 Marc Davis 6 Morton Buildings Inc 7 Mindt Const 8 Chapple Carpentry 9 Meadowlands Park 10 Goebel Construction 11 Shaun Kessler North Da Residential Week 49 - 11/22/7	1 1 2 3 1 6 2 1 kota Builder	\$123,000 \$117,555 \$117,458 \$103,000 \$99,187 \$97,000 \$91,655 \$87,400	Owner-B Year-to-Date Construction Type 1 Single Family 2 Garages & Carports 3 Res Rmdl, Addn, Int 4 Commercial North D Commercia Week 49 - 11/29, Builder	uilders 12/05/20 Permits 81 146 582 57 akota I Builde	\$17,719,9 \$2,579,7 \$8,828,8 \$1,692,2 rs	
Comm Structures Other Than Comm Rmdl, Addn, Int Fin Total Commercial Const	27 39	\$4,267,649 \$8,145,199	0	4 Venable Enterprises 5 Marc Davis 6 Morton Buildings Inc 7 Mindt Const 8 Chapple Carpentry 9 Meadowlands Park 10 Goebel Construction 11 Shaun Kessler North Da Residential Week 49 - 11/29/1 Builder P 1 Tooz Const Inc	1 1 2 3 1 6 2 1 kota Builder 8 to 12 emits 1	\$123,000 \$117,555 \$117,458 \$103,000 \$99,187 \$97,000 \$91,655 \$87,400 \$9,005/18 \$2,005/18	Owner-B Year-to-Date Construction Type 1 Single Family 2 Garages & Carports 3 Res Rmdl, Addn, Int 4 Commercial North D Commercia Week 49 - 11/29, Builder 1 Scull Construction	uilders 12/05/20 Permits 81 146 582 57 akota I Builde /18 to 12 Permits 1	Va \$17,719,6 \$2,579,7 \$8,828,8 \$1,692,2 rs 2/05/18 Va \$2,500,6	
Comm Structures Other Than Comm Rmdl, Addn, Int Fin Total Commercial Const	27 39	\$4,267,649 \$8,145,199	0	4 Venable Enterprises 5 Mart Davis 6 Morton Buildings Inc 7 Mindt Const 8 Chapple Carpentry 9 Meadowlands Park 10 Goebel Construction 11 Shaun Kessler North Da Residential I Week 49 - 11/29/1 Builder	1 1 2 3 1 6 2 1 1 ekota Builder 18 to 12 ermits	\$123,000 \$117,555 \$117,458 \$103,000 \$99,187 \$97,000 \$91,655 \$87,400	Owner-B Year-to-Date Construction Type 1 Single Family 2 Garages & Carports 3 Res Rmdl, Addn, Int 4 Commercial North D Commercia Week 49 - 11/29, Builder 1 Scuil Construction 2 Kolling & Kolling Inc	uilders 12/05/20 Permits 81 146 582 57 akota I Builde /18 to 12 Permits	Va \$17,719,6 \$2,579,7 \$8,828,8 \$1,692,2 rs 2/05/18 Va \$2,500,6 \$2,086,6	
Comm Structures Other Than Comm Rmdl, Addn, Int Fin Total Commercial Const	27 39	\$4,267,649 \$8,145,199	0	4 Venable Enlerprises 5 Marc Davis 6 Monton Buildings Inc 7 Mindt Const 8 Chapple Carpentry 9 Meadowlands Park 10 Goebel Construction 11 Shaun Kessler North Da Residential Week 49 - 11/29/ Builder P 1 Tooz Const Inc 2 Franklin 3 Investore Inc	1 1 2 3 1 6 2 1 1 (kota Builder 18 to 12 ermits 1 8	\$123,000 \$117,555 \$117,458 \$103,000 \$99,187 \$97,000 \$91,655 \$87,400 \$1,005/18 Value \$1,111,111 \$800,000 \$605,000	Owner-B Year-to-Date Construction Type 1 Single Family 2 Garages & Carports 3 Res Rmdl, Addn, Int 4 Commercial North D Commercia Week 49 - 11/29, Builder 1 Scull Construction 2 Kolling & Kolling Inc 3 SB Inc	uilders 12/05/20 Permits 81 146 582 57 akota I Builde (18 to 12 Permits 1 2 1	Va \$17,719,9 \$2,579,7 \$8,828,6 \$1,692,2 rs \$2/05/18 Va \$2,500,0 \$2,086,0 \$560,0	
Comm Structures Other Than Comm Rmdl, Addn, Int Fin Total Commercial Const	27 39	\$4,267,649 \$8,145,199	0	4 Venable Enlerprises 5 Marc Davis 6 Morton Buildings Inc 7 Mindt Const 8 Chapple Carpentry 9 Meadowlands Park 10 Goebel Construction 11 Shaun Kessler North Da Residential I Week 49 - 11/29/ Builder 1 Tooz Const Inc 2 Franklin 3 Investcore Inc 4 Venture Building	1 1 2 3 1 6 2 1 kota Builder 8 to 12 emits 1 8	\$123,000 \$117,555 \$117,458 \$103,000 \$99,187 \$97,000 \$91,655 \$87,400 \$00,000 \$1,111,111 \$800,000 \$405,000	Owner-B Year-to-Date Year-to-Date Construction Type 1 Single Family 2 Garages & Carports 3 Res Rmdl, Addn, Int 4 Commercial North D Commercia Week 49 - 11/29, Builder 1 Scuil Construction 2 Kolling & Kolling Inc 3 SB Inc 4 Great States Const	uilders 12/05/20 Permits 81 146 582 57 akota I Builde /18 to 12 Permits 1 2 1 1	Va \$17,719,5 \$2,579,7 \$8,828,6 \$1,692,2 rs \$205/18 Va \$2,500,6 \$2,086,6 \$260,6 \$260,6	
Comm Structures Other Than Comm Rmdl, Addn, Int Fin Total Commercial Const	27 39	\$4,267,649 \$8,145,199	0	4 Venable Enterprises 5 Marc Davis 6 Morton Buildings Inc 7 Mindt Const 8 Chapple Carpentry 9 Meadowlands Park 10 Goebet Construction 11 Shaun Kessler North Da Residential Week 49 - 11/29/ Builder P 1 Tooz Const Inc 2 Franklin 3 Investore Inc 4 Venture Building 5 Rich Stradling	1 1 2 3 1 6 2 1 kota Builder [8 to 12 emits 1 8 4 3	\$123,000 \$117,555 \$117,458 \$103,000 \$99,187 \$97,000 \$91,655 \$87,400 \$1,111,111 \$800,000 \$05,000 \$405,000 \$395,059	Owner-B Year-to-Date Construction Type 1 Single Family 2 Garages & Carports 3 Res Rmdl, Addn, Int 4 Commercial North D Commercia Week 49 - 11/29, Builder 1 Scull Construction 2 Kolling & Kolling Inc 3 SB Inc 4 Great States Const 5 Southpaw USA Inc	uilders 12/05/20 Permits 81 146 582 57 akota Builde (18 to 12 Permits 1 2 1 1 1	Va \$17,719,5 \$2,579,7 \$8,828,6 \$1,692,2 rs \$2,05/18 Va \$2,500,0 \$2,086,0 \$260,0 \$250,0 \$250,0	
Comm Structures Other Than Comm Rmdl, Addn, Int Fin Total Commercial Const	27 39	\$4,267,649 \$8,145,199	0	4 Venable Enlerprises 5 Marc Davis 6 Morton Buildings Inc 7 Mindt Const 8 Chapple Carpentry 9 Meadowlands Park 10 Goebel Construction 11 Shaun Kessler North Da Residential Week 49 - 112297 Builder P 1 Tooz Const Inc 2 Franklin 3 Investcore Inc 4 Venture Building 5 Rich Stradling 6 Heritage Homes	1 1 2 3 1 6 2 1 8 to 12 ermits 1 8 4 3 1	\$123,000 \$117,555 \$117,458 \$103,000 \$99,167 \$97,000 \$91,655 \$87,400 \$00,000 \$00,000 \$00,000 \$00,000 \$405,000 \$370,000	Owner-B Year-to-Date Construction Type 1 Single Family 2 Garages & Carports 3 Res Rmdl, Addn, Int 4 Commercial North D Commercial Week 49 - 11/29, Builder 1 Scull Construction 2 Kolling & Kolling Inc 3 SB Inc 4 Great States Const 5 Southpaw USA Inc 6 RI Properties LLC	uilders 12/05/20 Permits 81 146 582 57 akota I Builde /18 to 12 Permits 1 2 1 1 1 1	Va \$17,719,9 \$2,579,7 \$8,828,8 \$1,692,2 rs \$205/18 Va \$2,500,0 \$2,086,0 \$260,0 \$260,0 \$250,0 \$250,0 \$240,0	
Comm Structures Other Than Comm Rmdl, Addn, Int Fin Total Commercial Const	27 39	\$4,267,649 \$8,145,199	0	4 Venable Enlerprises 5 Marc Davis 6 Morton Buildings Inc 7 Mindt Const 8 Chapple Carpentry 9 Meadowlands Park 10 Goebel Construction 11 Shaun Kessler North Da Residential I Week 49 - 11/29// Builder 1 Tooz Const Inc 2 Franklin 3 Investcore Inc 4 Venture Building 5 Rich Stradling 6 Herltage Homes &	1 1 2 3 1 6 2 1 8 kota Builder 8 to 12 ermits 1 8 4 3 1 1	\$123,000 \$117,555 \$117,458 \$103,000 \$99,187 \$97,000 \$01,655 \$87,400 \$1,111,111 \$800,000 \$405,000 \$405,000 \$395,059 \$370,000 \$347,000	Owner-B Year-to-Date Construction Type 1 Single Family 2 Garages & Carports 3 Res Rmdl, Addn, Int 4 Commercial North D Commercia North D Commercia Neek 49 - 11/29, Builder 1 Scull Construction 2 Kolling & Kolling Inc 3 SB Inc 4 Great States Const 5 Southpaw USA Inc 6 RI Properties LLC 7 RJ Stallman	uilders 12/05/20 Permits 81 146 582 57 Takota I Builde (18 to 12 Permits 1 2 1 1 1 1 1	Va \$17,719,9 \$2,579,7 \$8,828,8 \$1,692,2 rs \$205/18 Va \$2,500,0 \$2,086,0 \$260,0 \$260,0 \$250,0 \$240,0 \$160,8	
Comm Structures Other Than Comm Rmdl, Addn, Int Fin Total Commercial Const	27 39	\$4,267,649 \$8,145,199	0	4 Venable Enlerprises 5 Marc Davis 6 Morton Buildings Inc 7 Mindt Const 8 Chapple Carpentry 9 Meadowlands Park 10 Goebel Construction 11 Shaun Kessler North Da Residential Week 49 - 11/29/1 Builder P 1 Tooz Const Inc 2 Franklin 3 Investcore Inc 4 Venture Building 5 Rich Stradling 6 Heritage Homes 7 Paula Rae Homes & 8 Legend Homes Inc	1 1 2 3 1 6 2 1 8 kota Builder 8 to 12 emits 1 8 4 3 1 1 1	\$123,000 \$117,555 \$117,458 \$103,000 \$99,167 \$97,000 \$91,655 \$87,400 \$1,111,111 \$800,000 \$605,000 \$405,000 \$3405,000 \$347,000 \$347,000 \$346,589	Owner-B Year-to-Date Construction Type 1 Single Family 2 Garages & Carports 3 Res Rmdl, Addn, Int 4 Commercial North D Commercial Week 49 - 11/29, Builder 1 Scull Construction 2 Kolling & Kolling Inc 3 SB Inc 4 Great States Const 5 Southpaw USA Inc 6 RI Properties LC 7 RJ Stallman 8 JDP Electric	uilders 12/05/26 Permits 81 146 582 57 akota Builde 18 to 12 Permits 1 2 1 1 1 1 1	Va \$17,719,9 \$2,579,7 \$8,828,8 \$1,692,2 rs \$205/18 Va \$2,500,0 \$260,0 \$260,0 \$250,0 \$240,0 \$150,0	
Comm Structures Other Than Comm Rmdl, Addn, Int Fin Total Commercial Const	27 39	\$4,267,649 \$8,145,199	0	4 Venable Enlerprises 5 Marc Davis 6 Morton Buildings Inc 7 Mindt Const 8 Chapple Carpentry 9 Meadowlands Park 10 Goebel Construction 11 Shaun Kessler North Da Residential I Week 49 - 11/29// Builder 1 Tooz Const Inc 2 Franklin 3 Investcore Inc 4 Venture Building 5 Rich Stradling 6 Herltage Homes &	1 1 2 3 1 6 2 1 8 kota Builder 8 to 12 ermits 1 8 4 3 1 1	\$123,000 \$117,555 \$117,458 \$103,000 \$99,187 \$97,000 \$01,655 \$87,400 \$1,111,111 \$800,000 \$405,000 \$405,000 \$395,059 \$370,000 \$347,000	Owner-B Year-to-Date Construction Type 1 Single Family 2 Garages & Carports 3 Res Rmdl, Addn, Int 4 Commercial North D Commercia North D Commercia Neek 49 - 11/29, Builder 1 Scull Construction 2 Kolling & Kolling Inc 3 SB Inc 4 Great States Const 5 Southpaw USA Inc 6 RI Properties LLC 7 RJ Stallman	uilders 12/05/20 Permits 81 146 582 57 Takota I Builde (18 to 12 Permits 1 2 1 1 1 1 1	Va \$17,719,5 \$2,579,7 \$8,828,6 \$1,692,2 rs \$2,500,6 \$2,5	

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Source: Construction Monitor 2018

Table 18. 2018 Michigan Building Permit Summary

Construction Monitor			Michigan Single Family Builders Year-to-Date 12/05/2018		Michigan Multi-Family Builders Year-to-Date 12/05/2018				
Michigan Buildin		t Summary			lomes	Value		Units	Val
Year-to-Dat				1 Pulte Homes of	264	\$59,838,984	1 Core Campus	617	\$49,384,1
Residential	Permits	Value	Units	2 Toll Bros Inc	185	\$35,890,627	2 Rockford	575	\$46,000,0
			2141	3 M/I Homes of	97	\$28,282,520	3 Oakwood	207	\$16,550,0
Single Family Homes	2,089	\$560,110,106		4 Fairview Construction	91	\$19,838,000	4 To Be Determined /	201	\$16,404,4
Duplexes & Twin Homes	37	\$5,900,213	64	5 Mondrian Building	63	\$14,427,048	5 Wolverine Building	87	\$15,473,4
Apartments & Condos	363	\$315,621,984	3502	6 Lombardo Homes Of	36	\$11,986,335	6 Sterling Landings	191	\$15,441.3
Cabins	2	\$120,000	0	7 Mayberry Homes	41	\$11,064,999	7 First Companies Inc	188	\$15,050,0
Other Residential Structures	239	\$8,085,440	1	8 Copperrock	19	\$7.730.000	8 Norstar Building	95	\$12,706,8
	482		Ö	9 Eastbrook Homes	28	\$7,596,157	9 Orion II Construction	80	\$12,057,0
Swimming Pools & Spas		\$13,663,904		10 Livemois LLC	43	\$6,348,000	10 Prime Building	74	\$11,629,0
Garages & Carports	504	\$15,696,618	0	11 Acadia Home Builders		\$6,200,187	10 Tillic balking	74	J11,023,0
Res Rmdl, Addn, Int Fin	7,227	\$306,591,388	310	12 Thomas Sebold &	-6	\$5,800,000	Michig	an	
Reroof Residential	2,640	\$60,376,019	0	13 Toll Bros	21	\$4,706,698	Other Resident	ial Bui	lders
Total Residential Const	13,583	\$1,286,165,632	6,018				Year-to-Date 1		
				14 SE Michigan Land	23	\$4,600,000	Builder P	emits	Va
Commercial	Permits	Value	Units	15 Zeff Concrete	12	\$4,220,425	1 TWG Construction	2	\$7,878,0
Offices/Banks/R&D/Professiona	l 25	\$109,600,320	0	16 PEG Construction Co	4	\$4,104,960			
Retail/Whsl/Dining/Personal	59	\$96,473,097	12	17 Vanguard Building	11	\$3,885,470	2 Broder Sachse	1	\$6,875,0
Mixed Use	13	\$152,829,793	278	18 Cranbrook Custom	6	\$3,884,063	3 Sachse Construction	1	\$6,875,0
				19 Bob Buescher Homes	11	\$3,742,700	4 Roberts III LP	1	\$5,810,8
Auto/Truck Sales & Service	4	\$4,321,765	0	20 Clearview Homes LLC	20	\$3,595,000	5 JRC Village Center	1	\$5,690,3
Parking Structures & Carports	10	\$65,862,998	0	21 La Marco Homes LLC	6	\$3,391,000	6 Bagley Clifford LLC	1	\$4,200,0
Motels, Hotels, & RV Parks	7	\$63,900,000	0	22 Petrucci Johnson	3	\$3,280,000	7 Desola General	2	\$3,875,0
Indus-Manuf, Whse-Shops,	34	\$495,180,162	Ö	23 Dilusso Building	10	\$3,168,330	8 Saint Rita	1	\$3,250,0
Public Transportation	1	\$152,410,000	0	24 DM Homes &	8	\$3,134,856	9 OBrien Construction	1	\$2,775,5
				25 Cranbrook Custom	9	\$3,124,749	10 Seward New Center	1	\$2,631,2
Hospitals & Other Institutions	13	\$101,894,211	24	26 Sapphire Building Inc.	3	\$2,990,000	11 RBA of Minnesota /	114	\$2,629,5
Churches & Other Religious	7	\$7,096,512	0				12 Paul Davis Elder	114	\$2,500,0
Private Schools & Day Care	4	\$4,350,000	0	27 Clyde Smith Farms	18	\$2,864,000			
Public Buildings & Projects	4	\$11,650,041	0	28 Habitat For Humanity	28	\$2,840,000	13 Bennys Construction	407	\$2,005,3
				29 Robertson Mill Ridge	11	\$2,781,747	14 Wallside Windows	137	\$1,911,
Utilities (gas elect wtr swr)	15	\$46,971,580	0	30 Ricky McDiarmid	15	\$2,750,400	15 Renewal by	117	\$1,780,6
Parks, Recreation, Entertain,	4	\$2,491,398	0	31 Steven John Orr	10	\$2,733,785	16 Finished Basements	32	\$1,733,5
Agricultural Buildings & Sheds	224	\$6,576,695	0	32 Allen Edwin Home	13	\$2,600,000	17 O'Brien Construction	2	\$1,725,0
Other Non-Residential Buildings		\$137,566,934	0	33 Luxe Homes Design &	4	\$2,493,598	18 Belfor USA Group Inc	13	\$1,720,3
	35		0	34 JBK Construction Co	4	\$2,387,020	19 Jozef Contractor Inc	51	\$1,679,8
Comm Structures Other Than		\$5,968,223		35 Bennys Construction	4	\$2,314,542	20 Renewal by	72	\$1,654,7
Comm Rmdl, Addn, Int Fin	2,534	\$1,222,798,608	0	36 Collie Construction	2	\$2,312,711	21 Meadowlark Builders	15	\$1,619,8
Reroof Commercial	306	\$33,013,089	0				22 Limited Divided Hou	17	\$1,590.0
Total Commercial Const	3,398	\$2,720,955,392	314	37 Liberty Construction	1	\$2,300,000	23 Templeton Building	13	\$1,555,0
				38 CMH Set & Finish Inc	11	\$2,200,000	23 Templeton Building	13	\$1,000,0
Solar	Permits	Value	Units	39 Bosco Building Inc	2	\$2,187,782	Michig	an	
Alternative Residential Energy	208	\$3,753,779	0	40 Waza Construction	10	\$2,178,416	Commercial	an Builde	re
Alternative Commercial Energy	8	\$3,730,000	0	41 Stonecrest Building	5	\$2,176,111	Year-to-Date 1		
Total Solar Const	216	\$7,483,779	0	42 Bella Homes Inc DBA	4	\$2,170,485			
			_	43 Crestline Homes LLC	6	\$2,166,334		emits	Va
Total Michigan Const	17,197	\$4,014,604,800	6,332	44 Glennwood Custom	3	\$2,124,592	1 J.B. Donaldson	2	\$319,000,0
Michigan Buildin	a Permi	t Summarv		45 MKD Development	1	\$2,100,000	2 Granger	4	\$235,480,8
Week 49 - 11/29/18 to 12/0			00)	46 Macleish Building Inc	6	\$2,075,040	3 The Christman	9	\$191,014,3
Residential				47 Aviano Building	5	\$2,070,999	4 Pioneer	18	\$83,366,3
	Permits	Value		48 West Canton	10	\$2,000,000	5 Henry Ford Health	6	\$65,519,8
Single Family Homes	27	\$8,389,578	27	49 VIP Homes of Burton	25	\$1,959,360	6 Christman-Brinker	1	\$58,988,0
Demolition	58	\$36,500	0	50 Rohde Construction	12	\$1,895,000	7 Bedrock	13	\$50,374,7
Footing & Foundation	5	\$123,716	0	51 Shaqe Berishaj	5	\$1,863,579	8 NP Burton	1	\$45,787.3
Other Residential Structures	2	\$310,000	0	52 Allen Edwin Homes	7	\$1,830,394	Walbridge Aldinger	8	\$45,533,6
	8		0	53 Denton Development	9	\$1,800,000	10 Grand River Aseptic	2	\$42,061,0
Swimming Pools & Spas		\$178,574	_				11 Visser Brothers Inc	19	\$39,484,8
Garages & Carports	6	\$109,036	0	54 Northstar	9	\$1,800,000		4	\$39,083,5
Res Rmdl, Addn, Int Fin	184	\$6,984,364	0	55 Park West	19	\$1,670,000	12 Ryan Companies		
Reroof Residential	50	\$1,050,634	0				13 O'Brien Construction	1	\$38,000,0
Total Residential Const	340	\$17,182,402		Michiga	an		14 Progressive AE	6	\$33,250,0
				Garage and Carp			15 Kasco Inc	15	\$29,498,0
Commercial	Permits	Value		Year-to-Date 12			16 City Club	.1	\$28,568,2
Demolition (Commercial)	4	\$77,323	0		ermits	Value	17 Sachse Construction	13	\$26,462,3
Parks, Recreation, Entertain,	1	\$322,890	0	1 Cunningham Limp	1	\$454,500	18 To Be Determined /	42	\$24,944,7
Agricultural Buildings & Sheds	1	\$38,016	0				19 Oberstar Inc	4	\$23,474,8
				2 Render Construction	1	\$348,781	20 The Red Fox	2	\$22,943,7
Other Non-Residential Buildings		\$18,000	0	3 Terpstra	1	\$212,000			
Comm Rmdl, Addn, Int Fin	96	\$37,209,487	0	4 BC David	1	\$205,000	Michig	an	
	8	\$2,784,874	0	5 Kingdom	3	\$192,388	Owner-Bi		
Reroof Commercial		\$40,450,592		6 Cara Oosterhouse	1	\$185,000	Year-to-Date 1	2/05/2	018
		<i>₽</i> 40,400,092		7 Garages R Us LLC	8	\$183,416	Construction Type	ermits	Va
Total Commercial Const	111		Units	8 Musson Builders	3	\$174,000	1 Single Family	131	\$32,301.8
	111 Permits	Value	UIIILS				2 Garages & Carports	179	\$4,701,6
Total Commercial Const Solar		Value \$82,319		9 Hi Point	1	\$170,000			
Total Commercial Const Solar Alternative Residential Energy	Permits 8	\$82,319	0	9 Hi Point 10 Robert Straszewski	1	\$170,000 \$150,000			
Total Commercial Const Solar Alternative Residential Energy Alternative Commercial Energy	Permits 8 2	\$82,319 \$50,000	0	10 Robert Straszewski	1	\$150,000	3 Res Rmdl, Addn, Int	2022	
Total Commercial Const Solar Alternative Residential Energy Alternative Commercial Energy Total Solar Const	Permits 8 2 10	\$82,319 \$50,000 \$132,319	0 0						
Total Commercial Const Solar Alternative Residential Energy Alternative Commercial Energy	Permits 8 2	\$82,319 \$50,000	0 0	10 Robert Straszewski 11 Kelly Builders Inc	1	\$150,000	3 Res Rmdl, Addn, Int 4 Commercial	2022 223	\$53,131,0 \$29,747,7
Total Commercial Const Solar Alternative Residential Energy Alternative Commercial Energy Total Solar Const	Permits 8 2 10	\$82,319 \$50,000 \$132,319	0 0	10 Robert Straszewski 11 Kelly Builders Inc Michiga	1 1 an	\$150,000 \$150,000	Res Rmdl, Addn, Int Commercial Michig	2022 223 jan	\$29,747,7
Total Commercial Const Solar Alternative Residential Energy Alternative Commercial Energy Total Solar Const	Permits 8 2 10	\$82,319 \$50,000 \$132,319	0 0	10 Robert Straszewski 11 Kelly Builders Inc Michiga Residential E	1 1 an Builder	\$150,000 \$150,000	3 Res Řmdl, Addín, Int 4 Commercial Michig Commercial	2022 223 an Builde	\$29,747,7
Total Commercial Const Solar Alternative Residential Energy Alternative Commercial Energy Total Solar Const	Permits 8 2 10	\$82,319 \$50,000 \$132,319	0 0	10 Robert Straszewski 11 Kelly Builders Inc Michiga Residential E Week 49 - 11/29/1	1 1 an Builder 8 to 12	\$150,000 \$150,000 s	3 Res Řmdl, Addn, Int 4 Commercial Michig Commercial Week 49 - 11/29/	2022 223 jan Builde 18 to 12	\$29,747,7 rs 2/05/18
Total Commercial Const Solar Alternative Residential Energy Alternative Commercial Energy Total Solar Const	Permits 8 2 10	\$82,319 \$50,000 \$132,319	0 0	10 Robert Straszewski 11 Kelly Builders Inc Michiga Residential E Week 49 - 11/29/1 Builder Pe	1 1 an Builder	\$150,000 \$150,000 \$ \$ \$/05/18	3 Res Řmdl, Addn, Int 4 Commercial Michig Commercial Week 49 - 11/29/ Builder	2022 223 gan Builde 18 to 12 ermits	\$29,747,7 rs 2/05/18
Total Commercial Const Solar Alternative Residential Energy Alternative Commercial Energy Total Solar Const	Permits 8 2 10	\$82,319 \$50,000 \$132,319	0 0	10 Robert Straszewski 11 Kelly Builders Inc Michiga Residential E Week 49 - 11/29/1	1 1 an Builder 8 to 12	\$150,000 \$150,000 s	3 Res Řmdl, Addn, Int 4 Commercial Michig Commercial Week 49 - 11/29/ Builder	2022 223 jan Builde 18 to 12	\$29,747,7 rs 2/05/18
Total Commercial Const Solar Alternative Residential Energy Alternative Commercial Energy Total Solar Const	Permits 8 2 10	\$82,319 \$50,000 \$132,319	0 0	10 Robert Straszewski 11 Kelly Builders Inc Michige Residential E Week 49 - 11/29/1 Builder Pe 1 Gumma Group	1 1 an Builder 8 to 12 ermits 1	\$150,000 \$150,000 \$ \$ \$/05/18 Value \$1,400,000	3 Res Řmdl, Addn, Int 4 Commercial Michig Commercial Week 49 - 11/29/ Builder P 1 George W Auch Co	2022 223 jan Builde 18 to 12 ermits 2	\$29,747,7 rs 2/05/18 Va \$5,600,1
Total Commercial Const Solar Alternative Residential Energy Alternative Commercial Energy Total Solar Const	Permits 8 2 10	\$82,319 \$50,000 \$132,319	0 0	10 Robert Straszewski 11 Kelly Bullders Inc Michig Residential E Week 49 - 11/29/1 Builder Pe 1 Gumma Group 2 Livemois LLC	an Builder 8 to 12 ermits 1 9	\$150,000 \$150,000 \$150,000 \$1,005/18 Value \$1,400,000 \$1,350,000	3 Res Řmdl, Addn, Int 4 Commercial Michig Commercial Week 49 - 11/29/ Builder P 1 George W Auch Co 2 JS Vig Construction	2022 223 pan Builde 18 to 12 remits 2 1	\$29,747,7 Prs 2/05/18 Va \$5,600,1 \$2,000,0
Total Commercial Const Solar Alternative Residential Energy Alternative Commercial Energy Total Solar Const	Permits 8 2 10	\$82,319 \$50,000 \$132,319	0 0	10 Robert Straszewski 11 Kelly Builders Inc Residential E Week 49 - 11/29/1 Builder Pe 1 Gumma Group 2 Livemois LLC 3 Custom Homes by	an Builder: 8 to 12 ermits 1 9	\$150,000 \$150,000 \$150,000 \$1,05/18 \$1,400,000 \$1,350,000 \$1,350,000	3 Res Řmdl, Addn, Int 4 Commercial Michig Commercial Week 49 - 11/29/ Builder 1 George W Auch Co 2 JS Víg Construction 3 Colasanti	2022 223 pan Builde 18 to 12 ermits 2 1 1	\$29,747,7 PS 2/05/18 Va \$5,600,7 \$2,000,0 \$1,500,0
Total Commercial Const Solar Alternative Residential Energy Alternative Commercial Energy Total Solar Const	Permits 8 2 10	\$82,319 \$50,000 \$132,319	0 0	10 Robert Straszewski 11 Kelly Builders Inc Residential E Week 49 - 11/29/1 Builder Pe 1 Gumma Group 2 Livemois LLC 3 Custom Homes by 4 Montgomery & Sons	an Builder 8 to 12 ermits 1 9 1	\$150,000 \$150,000 \$150,000 \$1,350,000 \$1,350,000 \$1,350,000 \$7,85,000	3 Res Rmdl, Addn, Int 4 Commercial Commercial Week 49 - 11/29/ Builder 1 George W Auch Co 2 JS Vig Construction 3 Colasanti 4 Walbndge Aldinger	2022 223 pan Builde 18 to 12 remits 2 1 1	\$29,747,7 rs \$2/05/18 Va \$5,600,7 \$2,000,0 \$1,500,0 \$1,395,2
Total Commercial Const Solar Alternative Residential Energy Alternative Commercial Energy Total Solar Const	Permits 8 2 10	\$82,319 \$50,000 \$132,319	0 0	10 Robert Straszewski 11 Kelly Builders Inc Michig: Residential E Week 49 - 11/29/1 Builder 1 Gumma Group 2 Livenois LLC 3 Custom Homes by 4 Montgomery & Sons 5 Dan Vis Builders	1 1 3uilder: 8 to 12 ermits 1 9 1 1	\$150,000 \$150,000 \$ Value \$1,400,000 \$1,350,000 \$1,350,000 \$785,000 \$7700,000	3 Res Rmd, Addn, Int 4 Commercial Michig Commercial Week 49 - 11/29/ Builder 1 George W Auch Co 2 JS Vig Construction 3 Colasanti 4 Walbridge Aldinger 5 Pinaire Roofing LLC	2022 223 gan Builde 18 to 12 ermits 2 1 1 1	\$29,747,7 rs 2/05/18 Va \$5,600,0 \$1,500,0 \$1,395,2 \$925,0
Total Commercial Const Solar Alternative Residential Energy Alternative Commercial Energy Total Solar Const	Permits 8 2 10	\$82,319 \$50,000 \$132,319	0 0	10 Robert Straszewski 11 Kelly Builders Inc Residential E Week 49 - 11/29'1 Builder Pe 1 Gumma Group 2 Livemois LLC 3 Custom Homes by 4 Montgomery & Sons 5 Dan Vis Builders 6 Draper Construction	1 1 3uilder: 8 to 12 ermits 1 9 1 1 1	\$150,000 \$150,000 \$ \$/05/18 Value \$1,400,000 \$1,350,000 \$7,85,000 \$7,95,000 \$7,95,000 \$7,95,000 \$7,95,000 \$7,95,000	3 Res Rmdl, Addn, Int 4 Commercial	2022 223 pan Builde 18 to 12 ermits 2 1 1 1 1	\$29,747,7 rs 2/05/18 \$5,600, \$2,000,0 \$1,500,0 \$1,395,2 \$925,0 \$907,0
Total Commercial Const Solar Alternative Residential Energy Alternative Commercial Energy Total Solar Const	Permits 8 2 10	\$82,319 \$50,000 \$132,319	0 0	10 Robert Straszewski 11 Kelly Builders Inc Michig: Residential E Week 49 - 11/29/1 Builder 1 Gumma Group 2 Livermois LLC 3 Custom Homes by 4 Montgomery & Sons 5 Dan Vis Builders 6 Draper Construction 7 GFA Development	an Builden 8 to 12 ermits 1 9 1 1 1	\$150,000 \$150,000 \$150,000 \$1,000 \$1,400,000 \$1,350,000 \$1,350,000 \$785,000 \$700,000 \$534,154 \$512,282	3 Res Rmd, Addn, Int 4 Commercial Michig Commercial Week 49 – 11/29/ Builder 1 George Wauch Co 2 JS Vig Construction 3 Colasanti 4 Walbridge Aldinger 5 Pinaire Roofing LLC 6 Kirco Manix 7 First Companies Inc	2022 223 gan Builde 18 to 12 ermits 2 1 1 1 1	\$29,747,7 rs 2/05/18 Va \$5,600,1 \$2,000,0 \$1,500,0 \$1,395,2 \$925, \$907,0 \$900,0
Total Commercial Const Solar Alternative Residential Energy Alternative Commercial Energy Total Solar Const	Permits 8 2 10	\$82,319 \$50,000 \$132,319	0 0	10 Robert Straszewski 11 Kelly Builders Inc Residential E Week 49 - 11/29'1 Builder Pe 1 Gumma Group 2 Livemois LLC 3 Custom Homes by 4 Montgomery & Sons 5 Dan Vis Builders 6 Draper Construction	1 1 3uilder: 8 to 12 ermits 1 9 1 1 1 1 1 2	\$150,000 \$150,000 \$ \$/05/18 Value \$1,400,000 \$1,350,000 \$7,85,000 \$7,95,000 \$7,95,000 \$7,95,000 \$7,95,000 \$7,95,000	3 Res Rmdl, Addn, Int 4 Commercial	2022 223 pan Builde 18 to 12 ermits 2 1 1 1 1	\$29,747,7 rs 2/05/18 \$5,600, \$2,000,0 \$1,500,0 \$1,395,2 \$925,0 \$907,0
Total Commercial Const Solar Alternative Residential Energy Alternative Commercial Energy Total Solar Const	Permits 8 2 10	\$82,319 \$50,000 \$132,319	0 0	10 Robert Straszewski 11 Kelly Builders Inc Michig: Residential E Week 49 - 11/29/1 Builder 1 Gumma Group 2 Livermois LLC 3 Custom Homes by 4 Montgomery & Sons 5 Dan Vis Builders 6 Draper Construction 7 GFA Development	an Builden 8 to 12 ermits 1 9 1 1 1	\$150,000 \$150,000 \$150,000 \$1,000 \$1,400,000 \$1,350,000 \$1,350,000 \$785,000 \$700,000 \$534,154 \$512,282	3 Res Rmd, Addn, Int 4 Commercial Michig Commercial Week 49 – 11/29/ Builder 1 George Wauch Co 2 JS Vig Construction 3 Colasanti 4 Walbridge Aldinger 5 Pinaire Roofing LLC 6 Kirco Manix 7 First Companies Inc	2022 223 gan Builde 18 to 12 ermits 2 1 1 1 1	\$29,747,7 rs 2/05/18 \$5,600, \$2,000,(\$1,500,(\$1,395,(\$925,(\$907,(\$900,(
Total Commercial Const Solar Alternative Residential Energy Alternative Commercial Energy Total Solar Const	Permits 8 2 10	\$82,319 \$50,000 \$132,319	0 0	10 Robert Straszewski 11 Kelly Builders Inc Residential E Week 49 - 11/29/1 Builder Pe 1 Gumma Group 2 Livemois LLC 3 Custom Homes by 4 Montgomery & Sons 5 Dan Vis Builders 6 Draper Construction 7 GFA Development 8 Mayberry Homes	1 1 3uilder: 8 to 12 ermits 1 9 1 1 1 1 1 2	\$150,000 \$150,000 \$150,000 \$1,000 \$1,360,000 \$1,350,000 \$780,000 \$780,000 \$534,154 \$512,282 \$454,803	3 Res Řmdl, Addn, Int 4 Commercial Mechig Commercial Week 49 - 11/29/ Builder 1 George W Auch Co 2 JS Vig Construction 3 Colasani 4 Walbridge Aldinger 5 Pinaire Roofing LLC 6 Kirco Manix 7 First Companies Inc 8 Tri North Builders	2022 223 gan Builde 18 to 12 ermits 2 1 1 1 1 1	\$29,747,7 rs 2/05/18 V: \$5,600, \$2,000, \$1,500, \$1,395, \$925, \$907, \$900, \$900,

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Source: Construction Monitor 2018

Table 19. 2018 Illinois Building Permit Summary

Construction Monitor			Illinois Single Family Builders Year-to-Date 12/05/2018		Illinois Multi-Family Builders Year-to-Date 12/05/2018				
Illinois Building	Permit	Summary			omes	Value		Units	Va
Year-to-Dat				1 MI Homes Of Chicago	187	\$70,779,183	1 Walsh Const Co		435,913,8
Residential	Permits	Value	Units	2 Pulte Group-	131 66	\$27,654,897	2 Power Const		160,000,0
Single Family Homes	1.990	\$777.356.411	2093	3 DRH Cambridge		\$13,245,798 \$12,743,218	3 Clark Const Group		\$48,055,0
Duplexes & Twin Homes	102	\$21,861,036	204	4 Carlson Brothers 5 Pulte Homes	72 26	\$12,743,218	4 McShane Const Co		\$44,000,0
Apartments & Condos	388	\$1,428,942,449	7823	6 Calatlantic Homes	55 55	\$10,152,800	5 Clayco Inc		\$30,720,0
Other Residential Structures	96	\$5,675,163	0	7 Bulley & Andrews,	2	\$9,433,000	6 Crane Const 7 YRL Builders LLC		\$29,386,7
				8 McNaughton	25	\$9,269,098			\$29,000,0
Swimming Pools & Spas	396	\$34,114,245	0	9 MK Const & Builders	30	\$8,685,000	8 Landmark		\$21,471,
Garages & Carports	393	\$16,266,541	0	10 Toll Brothers	44	\$7,040,000	9 CA Student Living	80	\$21,000,
Res Rmdl, Addn, Int Fin	7,410	\$1,083,807,236	0	11 Charleston Building &	6	\$6,814,400	10 UJAMAA Const Inc	102	\$20,673,
Reroof Residential	841	\$62,213,200	0	12 Wujcik Const Group	2	\$6,400,000	Illinoi	s	
Total Residential Const	11,616	\$3,430,236,416	10.120	13 ECO Development Inc	25	\$6,324,200	Other Resident	al Build	ers
Commercial				14 DR Horton	36	\$6,234,903	Year-to-Date 1	2/05/201	18
	Permits	Value	Units	15 Kings Court Builders	9	\$6,070,000	Builder P	ermits	V
Offices/Banks/R&D/Professional		\$670,721,950	0	16 North Shore Builders	6	\$5,600,000	1 Walsh Construction	1 9	150,000
Retail/Whsl/Dining/Personal	53	\$117,740,827	0	17 Edward R James	14	\$5,300,051	2 Bulley & Andrews,		\$28,531,
Mixed Use	30	\$181,773,291	162	18 Premier Design &	1	\$5,197,336	3 Weis Builders Inc		\$19.542
Auto/Truck Sales & Service	3	\$7,476,248	0	19 Taylor Morrison of II	20	\$5,010,544	4 Macon Const Group		\$18,100.
Motels, Hotels, & RV Parks	4	\$62,142,500	0	20 Redrock Custom	20	\$5,000,000	5 Midwest Const		\$18,000.
Indus-Manuf, Whse-Shops,	38	\$257,462,715	0	21 MPI Contracting Inc	14	\$4,877,000	6 ALL Masonry Const		\$18,000,
Hospitals & Other Institutions	5	\$16,623,692	0	22 Crestview Builders	7	\$4,850,000	7 Bear Const Company		\$16,160,
				23 Thomas Doyle dba			8 Brown & Momen Inc		\$15,000,
Churches & Other Religious	7	\$7,649,000	0		20 13	\$4,700,000	9 Skender Const Co		\$11,835
Private Schools & Day Care	2	\$7,610,500	0	24 Overstreet Builders 25 Lennar Meritus	13	\$4,351,060 \$4,344,002	10 Phoenix Community		\$11,035,
Public Buildings & Projects	12	\$219,137,710	0	26 Rvan Homes	19	\$4,344,002	11 Wujcik Const Group	3	\$9,127,
Utilities (gas elect wtr swr)	103	\$63,978,931	1	27 Scott Lyon & Co	19	\$4,241,000	12 Walsh Const Co	2	\$8,580,
Parks, Recreation, Entertain,	17	\$46,067,929	0	28 Hartz Const/Oxford	16	\$4,200,000	13 LR Contracting Co	1	\$8,000,
Agricultural Buildings & Sheds	42	\$14,530,194	0	29 Lakewest Custom	4	\$3,700,000	14 Power Const	8	\$7,135.
Other Non-Residential Buildings		\$84,197,326	ő	30 Levy Custom Homes	1		15 Method Development	2	\$5,825,
Comm Structures Other Than	107	\$39,494,620	ő	31 Union Square	14	\$3,585,000 \$3,550,528	16 Corporate Office	3	\$5,772.
Comm Rmdl, Addn, Int Fin	4.856		0	32 Orren Pickell	3	\$3,460,840	17 Synergy Const Group	5	\$5,563,
		\$3,683,601,819		33 DJK Const	5	\$3,260,910	18 La Mancha Const	1	\$5,208,
Reroof Commercial	273	\$72,851,471	0	34 Oriens Investment	1	\$3,200,000	19 Auburn Corp	13	\$5,150,0
Total Commercial Const	5,620	\$5,553,060,864	163	35 Demarco Custom	12	\$3,200,000	20 Midwest Heritage	5	\$5,090,
Solar	Permits	Value	Units	36 Elmshire Builders Inc	2	\$3,100,000	21 Kroenke LLC	1	\$5,000,0
Alternative Residential Energy	117	\$2,306,000	0		1	\$3,000,000	22 LS Contracting Group	10	\$4,940,0
Alternative Commercial Energy	11	\$2,326,809	0	37 Highgate Builders Inc	17		23 Clune Const Co	3	\$4,675,0
				38 TAG Residential		\$2,967,420	25 Cluric Corist Co	0	\$4,070,
Total Solar Const	128	\$4,632,809	0	39 J Timothy Builders Inc 40 Fidelity Wes Builders	1 6	\$2,940,000 \$2,900,000	Illinoi	s	
Total Illinois Const	17,364	\$8,987,928,576	10,283	41 Real View Design &	10	\$2,855,000	Commercial		
				42 McInerney Builders	14	\$2,831,000	Year-to-Date 1:	2/05/201	8
				43 Smart Const Group	2	\$2,816,700	Builder P	ermits	V
				44 New Guard Custom	2	\$2,803,000	1 Power Const	56 9	343.469.
Illinois Building	Dormit	Cummon		45 PKPG Companies Inc	5	\$2,800,000	2 Clark Construction		300,000,0
Week 49 - 11/29/18 to 12/0			00)	46 Pulte Group	14	\$2,730,000	3 Lend Lease Const		289,958,
				47 Highbury & Islington	2	\$2,722,350	4 MA Mortenson Co		262,808,
Residential	Permits	Value		48 McKeown Classic	2	\$2,600,000	5 Skender Const Co	68 \$	185,445,
Single Family Homes	27	\$11,239,517		49 Noah Properties	2	\$2,587,175	6 Leopardo Co Inc	70 \$	165,067,4
Demolition	24	\$52,516		50 Arthur J Greene	4	\$2,520,500	7 Pepper Const Co	40 9	142,228,
Grading & Dust	18	\$4,500	0	51 Autumn Homes Inc	4	\$2,500,000	8 Walsh Const Co	17 9	132,541,8
Footing & Foundation	17	\$135,760	0	52 Zhuk Corp	6	\$2,455,000	9 Turner Const	22 \$	126,292,
Duplexes & Twin Homes	1	\$389,000	2	53 Platinum Homes	3	\$2,454,400	10 FH Paschen SN	41 9	125,476,
Apartments & Condos	21	\$76,980,097	1264	54 McMahon Builders Inc	5	\$2,400,000	11 Executive Const Inc		122,045,
Other Residential Structures	2	\$796,000		55 Chicago Custom	1	\$2,364,456	12 WE ONeil Const Co		111,036,
Swimming Pools & Spas	7	\$281,080		-			13 Norcon Inc		106,240,
	2			Illinois	5		14 Clune Const Co		\$80,187,
		\$50,000	0	Garage and Carpo	ort Bu	ilders	15 Bear Const	151	\$76,994,
Garages & Carports							16 Clark Const Group		
Res Rmdl, Addn, Int Fin	107	\$12,075,544	0	Year-to-Date 12					
Res Rmdl, Addn, Int Fin Reroof Residential	107 9	\$12,075,544 \$558,628	0	Year-to-Date 12			17 Scale Const Inc	2	\$64,000,
Res Rmdl, Addn, Int Fin	107	\$12,075,544	0	Year-to-Date 12 Builder Pe	2/05/20)18 Value	17 Scale Const Inc 18 Bulley & Andrews,	2 45	\$64,000, \$62,280,
Res Rmdl, Addn, Int Fin Reroof Residential Total Residential Const	107 9 235	\$12,075,544 \$558,628 \$102,562,640	0 0 0 1,293	Year-to-Date 12 Builder Pe 1 Danley Lumber Co	2/05/20 ermits 48)18 Value \$1,172,745	17 Scale Const Inc 18 Bulley & Andrews, 19 KR Miller Cont Inc	2 45 9	\$64,000, \$62,280, \$57,550,
Res Rmdl, Addn, Int Fin Reroof Residential Total Residential Const Commercial	107 9 235 Permits	\$12,075,544 \$558,628 \$102,562,640 Value	0 0 0 1,293 Units	Year-to-Date 12 Builder Pe 1 Danley Lumber Co 2 IPRM	2/05/20 ermits	Value \$1,172,745 \$1,100,000	17 Scale Const Inc 18 Bulley & Andrews,	2 45 9	\$64,000, \$62,280, \$57,550,
Res Rmdl, Addn, Int Fin Reroof Residential Total Residential Const Commercial Offices/Banks/R&D/Professional	107 9 235 Permits	\$12,075,544 \$558,628 \$102,562,640 Value \$32,000,000	0 0 0 1,293 Units	Year-to-Date 12 Builder Pe 1 Danley Lumber Co	2/05/20 ermits 48 1)18 Value \$1,172,745	17 Scale Const Inc 18 Bulley & Andrews, 19 KR Miller Cont Inc 20 Summit Design &	2 45 9 21	\$64,000, \$62,280, \$57,550,
Res Rmdl, Addn, Int Fin Reroof Residential Total Residential Const Commercial Offices/Banks/R&D/Professional Demolition (Commercial)	107 9 235 Permits 1 9	\$12,075,544 \$558,628 \$102,562,640 Value \$32,000,000 \$140,005	0 0 0 1,293 Units 0 0	Year-to-Date 12 Builder Pe 1 Danley Lumber Co 2 IPRM 3 Western Speciality 4 Lindblad Const	2/05/20 ermits 48 1 1	Value \$1,172,745 \$1,100,000 \$953,045	17 Scale Const Inc 18 Bulley & Andrews, 19 KR Miller Cont Inc 20 Summit Design &	2 45 9 21	\$64,000, \$62,280, \$57,550,
Res Rmdl, Addn, Int Fin Reroof Residential Total Residential Const Commercial Offices/Banks/R&D/Professional Demolition (Commercial) Footing & Foundation	107 9 235 Permits 1 9 2	\$12,075,544 \$558,628 \$102,562,640 Value \$32,000,000 \$140,005 \$531,300	0 0 0 1,293 Units 0 0 0 0 0 0	Year-to-Date 12 Builder Pe 1 Danley Lumber Co 2 IPRM 3 Western Speciality 4 Lindblad Const 5 Absolute Garage	2/05/20 ermits 48 1 1	Value \$1,172,745 \$1,100,000 \$953,045 \$870,000 \$773,889	17 Scale Const Inc 18 Bulley & Andrews, 19 KR Miller Cont Inc 20 Summit Design & Illinoi Owner-Bu	2 45 9 21 s ilders	\$64,000, \$62,280, \$57,550, \$56,907,
Res Rmdl, Addn, Int Fin Reroof Residential Total Residential Const Commercial Offices/Banks/R&D/Professional Demolition (Commercial) Footing & Foundation Agricultural Buildings & Sheds	107 9 235 Permits 1 9 2 1	\$12,075,544 \$558,628 \$102,562,640 Value \$32,000,000 \$140,005 \$531,300 \$4,000,000	0 0 1,293 Units 0 0 0 0 0 0 0 0	Year-to-Date 12 Builder Pe 1 Danley Lumber Co 2 IPRM 3 Western Speciality 4 Lindblad Const	2/05/20 ermits 48 1 1 1 27	Value \$1,172,745 \$1,100,000 \$953,045 \$870,000 \$773,889 \$449,280	17 Scale Const Inc 18 Bulley & Andrews, 19 KR Miller Cont Inc 20 Summit Design & Illinoi Owner-Bu Year-to-Date 1	2 45 9 21 s ilders 2/05/201	\$64,000, \$62,280, \$57,550, \$56,907,
Res Rmdl, Addn, Int Fin Reroof Residential Const Commercial Offices/Banks/R&D/Professional Demolition (Commercial) Footing & Foundation Agricultural Buildings & Sheds Other Non-Residential Buildings	107 9 235 Permits 1 9 2 1	\$12,075,544 \$558,628 \$102,562,640 Value \$32,000,000 \$140,005 \$531,300 \$4,000,000 \$270,000	0 1,293 Units 0 0 0 0 0 0 0 0 0 0	Year-to-Date 12 Builder Pe 1 Danley Lumber Co 2 IPRM 3 Westem Speciality 4 Lindblad Const 5 Absolute Garage 6 Zera Const Co Inc 7 JJ Swartz Co	2/05/20 ermits 48 1 1 1 27	Value \$1,172,745 \$1,100,000 \$953,045 \$870,000 \$773,889	17 Scale Const Inc 18 Bulley & Andrews, 19 KR Miller Cont Inc 20 Summit Design & Illinoi Owner-Bu Year-to-Date 1 Construction Type	2 45 9 21 s ilders 2/05/201	\$64,000, \$62,280, \$57,550, \$56,907,
Res Rmdl, Addn, Int Fin Reroof Residential Total Residential Const Commercial Offices/Banks/R&D/Professional Demolition (Commercial) Footing & Foundation Agricultural Buildings & Sheds Other Non-Residential Buildings Comm Structures Other Than	107 9 235 Permits 1 9 2 1 1	\$12,075,544 \$558,628 \$102,562,640 Value \$32,000,000 \$140,005 \$531,300 \$4,000,000	0 1,293 Units 0 0 0 0 0 0 0 0 0 0	Year-to-Date 12 Builder 1 Danley Lumber Co 2 IPRM 3 Westem Speciality 4 Lindblad Const 5 Absolute Garage 6 Zera Const Co Inc 7 JJ Swartz Co 8 Georges Garages &	2/05/20 ermits 48 1 1 1 27 1	Value \$1,172,745 \$1,100,000 \$953,045 \$870,000 \$773,889 \$449,280 \$445,000	17 Scale Const Inc 18 Bulley & Andrews, 19 KR Miller Cont Inc 20 Summit Design & Illinoi Owner-Bu Year-to-Date 1 Construction Type 1 Single Family	2 45 9 21 s ilders 2/05/201 Permits 120	\$64,000, \$62,280, \$57,550, \$56,907, 8 V \$49,949,
Res Rmdl, Addn, Int Fin Reroof Residential Const Commercial Offices/Banks/R&D/Professional Demolition (Commercial) Footing & Foundation Agricultural Buildings & Sheds Other Non-Residential Buildings	107 9 235 Permits 1 9 2 1	\$12,075,544 \$558,628 \$102,562,640 Value \$32,000,000 \$140,005 \$531,300 \$4,000,000 \$270,000	0 0 1,293 Units 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Year-to-Date 12 Builder Pe 1 Danley Lumber Co 2 IPRM 3 Westem Speciality 4 Lindblad Const 5 Absolute Garage 6 Zera Const Co Inc 7 JJ Swartz Co	2/05/20 ermits 48 1 1 1 27 1 1 19	Value \$1,172,745 \$1,100,000 \$953,045 \$870,000 \$773,889 \$449,280 \$445,000 \$425,356	17 Scale Const Inc 18 Bulley & Andrews, 19 KR Miller Cort Inc 20 Summit Design & Illinoi Owner-Bu Year-to-Date 1 Construction Type F 1 Single Family 2 Garages & Carports	2 45 9 21 s ilders 2/05/201 Permits 120 92	\$64,000, \$62,280, \$57,550, \$56,907, 8 V \$49,949, \$3,184,
Res Rmdl, Addn, Int Fin Reroof Residential Total Residential Const Commercial Offices/Banks/R&D/Professional Demolition (Commercial) Footing & Foundation Agricultural Buildings & Sheds Other Non-Residential Buildings Comm Structures Other Than	107 9 235 Permits 1 9 2 1 1	\$12,075,544 \$558,628 \$102,562,640 Value \$32,000,000 \$140,005 \$531,300 \$4,000,000 \$270,000	0 0 1,293 Units 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Year-to-Date 12 Builder Pe 1 Danley Lumber Co 2 IPRM 3 Westem Speciality 4 Lindblad Const 5 Absolute Garage 6 Zera Const Co Inc 7 JJ Swartz Co 8 Georges Garages & 9 Steele & Loeber	2/05/20 ermits 48 1 1 1 27 1 1 19	Value \$1,172,745 \$1,100,000 \$953,045 \$870,000 \$773,889 \$449,280 \$445,000 \$425,356 \$330,732	17 Scale Const Inc 18 Bulley & Andrews, 19 KR Miller Cont Inc 20 Summit Design & Illino Owner-Bu Year-to-Date 1 Construction Type F 1 Single Family 2 Garages & Carports 3 Res Rmdi, Addn, Int	2 45 9 21 s ilders 2/05/201 ermits 120 92 1492 \$	\$64,000, \$62,280, \$57,550, \$56,907, 88 V \$49,949, \$3,184, \$103,969,
Res Rmdl, Addn, Int Fin Reroof Residential Const Commercial Offices/Banks/R&D/Professional Demolition (Commercial) Footing & Foundation Agricultural Buildings & Sheds Other Non-Residential Buildings Comm Structures Other Than Comm Rmdl, Addn, Int Fin Reroof Commercial	107 9 235 Permits 1 9 2 1 1 1 1 69	\$12,075,544 \$558,628 \$102,562,640 Value \$32,000,000 \$140,005 \$531,300 \$4,000,000 \$270,000 \$33,000 \$39,422,192 \$194,528	0 1,293 Units 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Year-to-Date 12 Builder Pe 1 Daniey Lumber Co 2 IPRM 3 Westem Speciality 4 Lindblad Const 5 Absolute Garage 6 Zera Const Co Inc 7 JJ Swartz Co 8 Georges Garages & 9 Steele & Loeber 10 Better Built Lumber	2/05/20 ermits 48 1 1 1 27 1 1 19 14	Value \$1,172,745 \$1,100,000 \$953,045 \$870,000 \$773,889 \$449,280 \$445,000 \$425,356 \$330,732 \$322,838	17 Scale Const Inc 18 Bulley & Andrews, 19 KR Miller Cort Inc 20 Summit Design & Illinoi Owner-Bu Year-to-Date 1 Construction Type F 1 Single Family 2 Garages & Carports	2 45 9 21 s ilders 2/05/201 ermits 120 92 1492 \$	\$64,000, \$62,280, \$57,550, \$56,907,
Res Rmdl, Addn, Int Fin Reroof Residential Const Commercial Offices/Banks/R&D/Professional Demolition (Commercial) Footing & Foundation Agricultural Buildings & Sheds Other Non-Residential Buildings Comm Structures Other Than Comm Rmdl, Addn, Int Fin Reroof Commercial Total Commercial Const	107 9 235 Permits 1 9 2 1 1 1 1 69 4	\$12,075,544 \$558,628 \$102,562,640 Value \$32,000,000 \$140,000 \$531,300 \$4,000,000 \$270,000 \$33,000 \$39,422,192 \$194,528 \$76,591,024	0 1,293 1 1,293 2 Units 3 0 5 0 6 0 6 0 7 0 7 0 7 0 7 0 7 0 7 0 7 0 7 0 7 0 7	Year-to-Date 12 Builder Pe 1 Danley Lumber Co 2 IPRM 3 Western Speciality 4 Lindblad Const 5 Absolute Garage 6 Zera Const Co Inc 7 JJ Swartz Co 8 Georges Garages & 9 Steele & Loeber 10 Steele & Loeber 11 Eriksen Armstrong	2/05/20 ermits 48 1 1 1 27 1 1 19 14 14	Value \$1,172,745 \$1,100,000 \$933,045 \$870,000 \$773,889 \$449,280 \$445,000 \$425,356 \$332,833 \$260,000	17 Scale Const Inc 18 Bulley & Andrews, 19 KR Miller Cont Inc 20 Summit Design & Illinoi Owner-Bu Year-to-Date 1 Construction Type F 1 Single Family 2 Garages & Carports 3 Res Rmd, Addn, Int 4 Commercial	2 45 9 21 s ilders 2/05/201 Permits 120 92 1492 95	V; \$49,949,; \$3,184,; \$103,969,; \$10,373,;
Res Rmdl, Addn, Int Fin Reroof Residential Const Commercial Offices/Banks/R&D/Professional Demolition (Commercial) Footing & Foundation Agricultural Buildings & Sheds Other Non-Residential Buildings Comm Structures Other Than Comm Rmdl, Addn, Int Fin Reroof Commercial Total Commercial Const	107 9 235 Permits 1 9 2 2 1 1 1 1 69 4 88 Permits	\$12,075,544 \$558,628 \$102,562,640 Value \$32,000,000 \$140,005 \$531,300 \$270,000 \$33,000 \$39,422,192 \$194,528 \$76,591,024 Value	0 0 1,293 Units 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Year-to-Date 12 Builder Pe 1 Daniey Lumber Co 2 IPRM 3 Westem Speciality 4 Lindblad Const 5 Absolute Garage 6 Zera Const Co Inc 7 JJ Swartz Co 8 Georges Garages & 9 Steele & Loeber 10 Better Built Lumber 11 Eniksen Armstrong Residential Billinois Residential B	2/05/20 ermits 48 1 1 1 27 1 1 19 14 14 1 1	Value \$1,172,745 \$1,100,000 \$953,045 \$870,000 \$773,889 \$449,280 \$445,000 \$425,356 \$330,732 \$322,838 \$260,000	17 Scale Const Inc 18 Bulley & Andrews, 19 KR Miller Cont Inc 20 Summit Design & Illinoi Owner-Bu Year-to-Date 1 Construction Type F 1 Single Family 2 Garages & Carports 3 Res Rmd, Addn, int 4 Commercial	2 45 9 21 s ilders 2/05/201 Permits 120 92 1492 95 s Builders	\$64,000, \$62,280, \$57,550, \$56,907, 18
Res Rmdl, Addn, Int Fin Reroof Residential Total Residential Const Commercial Offices/Banks/R&D/Professional Demolition (Commercial) Footing & Foundation Agricultural Buildings & Sheds Other Non-Residential Buildings Comm Structures Other Than Comm Rmdl, Addn, Int Fin Reroof Commercial Total Commercial Const Solar Alternative Residential Energy	107 9 235 Permits 1 9 2 1 1 1 1 69 4 88 Permits	\$12,075,544 \$558,628 \$102,562,640 Value \$32,000,000 \$140,005 \$531,300 \$4,000,000 \$270,000 \$33,000 \$39,422,192 \$194,528 \$76,591,024 Value \$99,507	0 0 1,293 Units 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Year-to-Date 12 Builder Pe 1 Danley Lumber Co 2 IPRM 3 Western Speciality 4 Lindblad Const 5 Absolute Garage 6 Zera Const Co Inc 7 JJ Swartz Co 8 Georges Garages & 9 Steele & Loeber 10 Steele & Loeber 11 Eriksen Armstrong	2/05/20 ermits 48 1 1 1 27 1 1 19 14 14 1 1	Value \$1,172,745 \$1,100,000 \$953,045 \$870,000 \$773,889 \$449,280 \$445,000 \$425,356 \$330,732 \$322,838 \$260,000	17 Scale Const Inc 18 Bulley & Andrews, 19 KR Miller Cont Inc 20 Summit Design & Illinoi Owner-Bu Year-to-Date 1 Construction Type F 1 Single Family 2 Garages & Carports 3 Res Rmd, Addn, Int 4 Commercial	2 45 9 21 s ilders 2/05/201 Permits 120 92 1492 95 s Builders	\$64,000, \$62,280, \$57,550, \$56,907, 18 V \$49,949, \$3,184, \$103,969, \$10,373,
Res Rmdl, Addn, Int Fin Reroof Residential Total Residential Const Commercial Offices/Banks/R&D/Professional Demolition (Commercial) Footing & Foundation Agricultural Buildings & Sheds Other Non-Residential Buildings Comm Structures Other Than Comm Rmdl, Addn, Int Fin Reroof Commercial Total Commercial Const Solar Alternative Residential Energy Alternative Commercial Energy	107 9 235 Permits 1 9 2 1 1 1 1 69 4 88 Permits	\$12,075,544 \$558,628 \$102,562,640 Value \$32,000,000 \$140,005 \$531,300 \$4,000,000 \$270,000 \$33,000 \$39,422,192 \$194,528 \$76,591,024 Value \$99,507 \$412,396	0 1,293 0 1,293 0 Units 0	Year-to-Date 12 Builder Pe 1 Daniey Lumber Co 2 IPRM 3 Western Speciality 4 Lindblad Const 5 Absolute Garage 6 Zera Const Co Inc 7 JJ Swartz Co 8 Georges Garages & 9 Steele & Loeber 10 Better Built Lumber 11 Eriksen Armstrong Residential B Week 49 - 11/29/18	2/05/20 ermits 48 1 1 1 27 1 1 19 14 14 1	Value \$1,172,745 \$1,100,000 \$953,045 \$870,000 \$773,889 \$449,280 \$445,000 \$425,356 \$330,732 \$322,838 \$260,000	17 Scale Const Inc 18 Bulley & Andrews, 19 KR Miller Cont Inc 20 Summit Design & Illinot Owner-Bu Year-to-Date 1 Construction Type F Single Family 2 Garages & Carports 3 Res Rmd, Addn, Int 4 Commercial Illinot Commercial Week 49 - 11/20/1	2 45 9 21 s ilders 2/05/201 Permits 120 92 1492 95 s Builders	\$64,000, \$62,280, \$57,550, \$56,907, 18 V \$49,949, \$3,184, \$103,969, \$10,373,
Res Rmdl, Addn, Int Fin Reroof Residential Total Residential Const Commercial Offices/Banks/R&D/Professional Demolition (Commercial) Footing & Foundation Agricultural Buildings & Sheds Other Non-Residential Buildings Comm Structures Other Than Comm Rmdl, Addn, Int Fin Reroof Commercial Total Commercial Const Solar Alternative Residential Energy	107 9 235 Permits 1 9 2 1 1 1 1 69 4 88 Permits	\$12,075,544 \$558,628 \$102,562,640 Value \$32,000,000 \$140,005 \$531,300 \$4,000,000 \$270,000 \$33,000 \$39,422,192 \$194,528 \$76,591,024 Value \$99,507	0 1,293 0 1,293 0 Units 0	Year-to-Date 12 Builder Pe 1 Danley Lumber Co 2 IPRM 3 Western Speciality 4 Lindblad Const 5 Absolute Garage 6 Zera Const Co Inc 7 JJ Swartz Co 8 Georges Garages & 9 Steele & Loeber 10 Better Built Lumber 11 Eriksen Armstrong West 49 - 11/29/18 Builder Pe	2/05/20 ermits 48 1 1 1 27 1 19 14 14 1 1 8 Builder 8 to 12 ermits	Value \$1,172,745 \$1,100,000 \$953,045 \$870,000 \$773,889 \$449,280 \$445,000 \$425,356 \$330,732 \$322,838 \$260,000	17 Scale Const Inc 18 Bulley & Andrews, 19 KR Miller Cont Inc 20 Summit Design & Illinoi Owner-Bu YYA-10-Jate 1 Construction Type F 1 Single Family 2 Garages & Carports 3 Res Rmd, Addn, Int 4 Commercial Illinoi Commercial Week 49 - 11/29/1 Builder P,	2 45 9 21 s ilders 2/05/201 Permits 120 92 1492 95 s Builders 8 to 12/0 ermits	\$64,000, \$62,280, \$57,550, \$56,907, 88 V \$49,949, \$3,184, \$103,969, \$10,373,
Res Rmdl, Addn, Int Fin Reroof Residential Total Residential Const Commercial Offices/Banks/R&D/Professional Demolition (Commercial) Footing & Foundation Agricultural Buildings & Sheds Other Non-Residential Buildings Comm Structures Other Than Comm Rmdl, Addn, Int Fin Reroof Commercial Total Commercial Const Solar Alternative Residential Energy Alternative Commercial Energy	107 9 235 Permits 1 9 2 1 1 1 1 69 4 88 Permits	\$12,075,544 \$558,628 \$102,562,640 Value \$32,000,000 \$140,005 \$531,300 \$4,000,000 \$270,000 \$33,000 \$39,422,192 \$194,528 \$76,591,024 Value \$99,507 \$412,396	0 1,293 0 1,293 0 Units 0	Year-to-Date 12 Builder Pe 1 Danley Lumber Co 2 IPRM 3 Western Speciality 4 Lindblad Const 5 Absolute Garage 6 Zera Const Co Inc 7 JJ Swartz Co 8 Geörges Garages & 9 Steele & Loeber 10 Better Built Lumber 11 Eriksen Armstrong Illinois	2/05/20 ermits 48 1 1 1 27 1 1 19 14 14 1 1 8 Builder 8 to 12	Value \$1,172,745 \$1,100,000 \$953,045 \$870,000 \$773,889 \$449,280 \$445,356 \$330,732 \$322,238 \$260,000	17 Scale Const Inc 18 Bulley & Andrews, 19 KR Miller Cont Inc 20 Summit Design & United States of States	2 45 9 21 s ilders 2/05/201 Permits 120 92 1492 95 s Builders 8 to 12/0 ermits	\$64,000, \$62,280, \$57,550, \$56,907, 88 V \$49,949, \$3,184, \$103,969, \$10,373, \$05/18 V \$32,480,
Res Rmdl, Addn, Int Fin Reroof Residential Total Residential Const Commercial Offices/Banks/R&D/Professional Demolition (Commercial) Footing & Foundation Agricultural Buildings & Sheds Other Non-Residential Buildings Comm Structures Other Than Comm Rmdl, Addn, Int Fin Reroof Commercial Total Commercial Const Solar Alternative Residential Energy Alternative Commercial Energy Total Solar Const	107 9 235 Permits 1 9 2 1 1 1 69 4 88 Permits 9 2	\$12,075,544 \$558,628 \$102,562,640 Value \$32,000,000 \$140,005 \$531,300 \$34,000,000 \$270,000 \$33,942,2192 \$194,528 \$76,591,024 Value \$99,507 \$412,396 \$511,903	0 1,293 0 1,293 0 Units 0	Year-to-Date 12 Builder Pe 1 Daniey Lumber Co 2 IPRM 3 Western Speciality 4 Lindblad Const 5 Absolute Garage 6 Zera Const Co Inc 7 JJ Swartz Co 8 Georges Garages & 9 Steele & Loeber 10 Better Built Lumber 11 Eriksen Armstrong Residential B Week 49 - 11/29/18 Builder Residential S 2 McShane Const Co	2/05/20 ermits 48 1 1 27 1 19 14 14 1 1 6 Builder 8 to 12 ermits 1 2	Value \$1,172,745 \$1,100,000 \$953,045 \$870,000 \$773,889 \$449,280 \$445,000 \$425,356 \$330,732 \$322,838 \$260,000 \$ \$ \$ \$ \$005/18 \$ \$ \$ \$449,280 \$445,000 \$425,356 \$30,732 \$322,838 \$260,000	17 Scale Const Inc. 18 Bulley & Andrews, 19 KR Miller Cont Inc. 20 Summit Design & Illinoi Owner-Bu Year-to-Date 1 Construction Type 1 Single Family 2 Garages & Carports 3 Res Rmd, Addn, Int. 4 Commercial Week 49 - 11/29/1 Builder 1 International 2 LG Const Group	2 45 9 21 s ilders 2/05/201 ermits 120 92 1492 \$ 95 \$ Builders 8 to 12/0 ermits 2 1	\$64,000, \$62,280, \$57,550, \$56,907, 8 V \$49,949, \$3,184, \$103,969, \$10,373, V \$32,480, \$10,500,
Res Rmdl, Addn, Int Fin Reroof Residential Total Residential Const Commercial Offices/Banks/R&D/Professional Demolition (Commercial) Footing & Foundation Agricultural Buildings & Sheds Other Non-Residential Buildings Comm Structures Other Than Comm Rmdl, Addn, Int Fin Reroof Commercial Total Commercial Const Solar Alternative Residential Energy Alternative Commercial Energy Total Solar Const	107 9 235 Permits 1 9 2 1 1 1 69 4 88 Permits 9 2	\$12,075,544 \$558,628 \$102,562,640 Value \$32,000,000 \$140,005 \$531,300 \$34,000,000 \$270,000 \$33,942,2192 \$194,528 \$76,591,024 Value \$99,507 \$412,396 \$511,903	0 1,293 0 1,293 0 Units 0	Year-to-Date 12 Builder Pe 1 Daniey Lumber Co 2 IPRM 3 Westem Speciality 4 Lindblad Const 5 Absolute Garage 6 Zera Const Co Inc 7 JJ Swartz Co 8 Georges Garages & 9 Steele & Loeber 10 Better Built Lumber 11 Eriksen Armstrong Residential B Week 49 - 11/29/18 Builder Pe 1 Crane Const 2 McShane Const Co 3 Lend Lease Const	2/05/20 ermits 48 1 1 27 1 1 19 14 14 14 1 1 8 uilder 8 to 12 ermits 1 2	Value \$1,172,745 \$1,100,000 \$953,045 \$870,000 \$773,889 \$449,280 \$445,366 \$330,732 \$322,838 \$260,000 \$25,322,838 \$260,000 \$25,332,838 \$260,000 \$25,332,838 \$260,000	17 Scale Const Inc. 18 Bulley & Andrews, 19 KR Miller Cont Inc. 20 Summit Design & Illinoi Vear-to-Date 1 Construction Type F1 Single Family 2 Garages & Carports 3 Res Rmd, Addn, Int. 4 Commercial Week 49 - 11/29/1 Builder Pr 1 International 2 LG Const Group 3 Leopardo Co Inc.	2 45 9 21 s silders 2/05/201 Permits 120 92 1492 9 95 s Builders 8 to 12/0 ermits 2 1 2	\$64,000, \$62,280, \$57,550, \$57,550, \$56,907, 8 \$49,949, \$3,184, \$103,969, \$10,373, \$05/18 \$2,480, \$32,480, \$8,367,
Res Rmdl, Addn, Int Fin Reroof Residential Total Residential Const Commercial Offices/Banks/R&D/Professional Demolition (Commercial) Footing & Foundation Agricultural Buildings & Sheds Other Non-Residential Buildings Comm Structures Other Than Comm Rmdl, Addn, Int Fin Reroof Commercial Total Commercial Const Solar Alternative Residential Energy Alternative Commercial Energy Total Solar Const	107 9 235 Permits 1 9 2 1 1 1 69 4 88 Permits 9 2	\$12,075,544 \$558,628 \$102,562,640 Value \$32,000,000 \$140,005 \$531,300 \$34,000,000 \$270,000 \$33,942,2192 \$194,528 \$76,591,024 Value \$99,507 \$412,396 \$511,903	0 1,293 0 1,293 0 Units 0	Year-to-Date 12 Builder Pe 1 Daniey Lumber Co 2 IPRM 3 Western Speciality 4 Lindblad Const 5 Absolute Garage 6 Zera Const Co Inc 7 JJ Swartz Co 8 Georges Garages & 9 Steele & Loeber 10 Better Built Lumber 11 Eriksen Armstrong Residential B Week 49 - 11/29/15 Builder Pe 1 Crane Const 2 McShane Const 2 McShane Const 4 The Domain Group	2/05/20 rmits 48 1 1 27 1 19 14 14 1 5 Builder 8 to 12 rmits 1 2 1 1	Value \$1,172,745 \$1,100,000 \$953,045 \$870,000 \$773,889 \$449,280 \$445,000 \$425,356 \$330,732 \$322,2838 \$260,000 \$25,356,797 \$14,000,000 \$12,000,000 \$12,000,000	17 Scale Const In Commercial Bulley & Andrews, 19 KR Miller Cont Inc 20 Summit Design & Wear-to-Date 1 Construction Type F 1 Single Family 2 Garages & Carports 3 Res Rmd, Addn, Int 4 Commercial Week 49 - 11/29/ Builder P 1 International 2 LG Const Group 3 Leopardo Co Inc 4 Arco Murray	2 45 9 21 s ilders 2/05/201 5 ermits 120 92 1492 9 95 s Builders 8 to 12/0 ermits 2 1 1 2 2 1	\$64,000, \$62,280, \$62,280, \$57,550, \$57,550, \$56,907, \$56,907, \$6,907, \$6,907, \$6,907, \$6,907, \$7,907,
Res Rmdl, Addn, Int Fin Reroof Residential Total Residential Const Commercial Offices/Banks/R&D/Professional Demolition (Commercial) Footing & Foundation Agricultural Buildings & Sheds Other Non-Residential Buildings Comm Structures Other Than Comm Rmdl, Addn, Int Fin Reroof Commercial Total Commercial Const Solar Alternative Residential Energy Alternative Commercial Energy Total Solar Const	107 9 235 Permits 1 9 2 1 1 1 69 4 88 Permits 9 2	\$12,075,544 \$558,628 \$102,562,640 Value \$32,000,000 \$140,005 \$531,300 \$34,000,000 \$270,000 \$33,942,2192 \$194,528 \$76,591,024 Value \$99,507 \$412,396 \$511,903	0 1,293 0 1,293 0 Units 0	Year-to-Date 12 Builder Pe 1 Daniey Lumber Co 2 IPRM 3 Westem Speciality 4 Lindblad Const 5 Absolute Garage 6 Zera Const Co Inc 7 JJ Swart Co 8 Georges Garages & 9 Steele & Loeber 10 Better Built Lumber 11 Eriksen Armstrong Residential B Week 49 - 11/29/16 Pe 1 Crane Const 2 McShane Const Co 3 Lend Lease Const 4 The Domain Group 5 Shodeen Group LLC	2/05/20 48 1 1 27 1 19 144 1 5 suilder 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2	Value \$1,172,745 \$1,100,000 \$953,045 \$870,000 \$773,889 \$444,280 \$445,000 \$425,356 \$330,732 \$322,838 \$260,000 Value \$29,386,797 \$14,000,000 \$9,000,000 \$9,000,000 \$8,000,000	17 Scale Const Inc 18 Bulley & Andrews, 19 KR Miller Cont Inc 20 Summit Design & Wear-to-Date 1 Construction Type F 1 Single Family 2 Garages & Carports 3 Res Rmdl, Addn, Int 4 Commercial Week 49 - 11/29/1 Builder P 1 International 2 LG Const Group 3 Leopardo Co Inc 4 Arco Murray 5 GD Wabash	2 45 9 21 s ilders 2/05/201 s 2/05/201 s 120 92 1492 95 s Builders 8 to 12/0 ermits 2 1 1 1	\$64,000) \$62,280) \$57,550) \$56,907) \$849,949; \$3,184, \$103,969; \$10,373; \$10,578 \$10,500) \$8,367, \$4,000) \$3,500)
Res Rmdl, Addn, Int Fin Reroof Residential Total Residential Const Commercial Offices/Banks/R&D/Professional Demolition (Commercial) Footing & Foundation Agricultural Buildings & Sheds Other Non-Residential Buildings Comm Structures Other Than Comm Rmdl, Addn, Int Fin Reroof Commercial Total Commercial Const Solar Alternative Residential Energy Alternative Commercial Energy Total Solar Const	107 9 235 Permits 1 9 2 1 1 1 69 4 88 Permits 9 2	\$12,075,544 \$558,628 \$102,562,640 Value \$32,000,000 \$140,005 \$531,300 \$34,000,000 \$270,000 \$33,942,2192 \$194,528 \$76,591,024 Value \$99,507 \$412,396 \$511,903	0 1,293 0 1,293 0 Units 0	Year-to-Date 12 Builder Pe 1 Daniey Lumber Co 2 IPRM 3 Westem Speciality 4 Lindblad Const 5 Absolute Garage 6 Zera Const Co Inc 7 JJ Swartz Co 8 Georges Garages & 9 Steele & Loeber 10 Better Built Lumber 11 Eriksen Armstrong Week 49 - 11/2918 Builder Pe 1 Crane Const 2 McShane Const Co 3 Lend Lease Const 4 The Domain Group 5 Shodeen Group LLC 6 DOM Properties	2/05/20 48 1 1 1 27 1 1 19 14 14 1 1 5 suilder 1 2 1 1 1 2 1 2 1 2 2 2	Value \$1,172,745 \$1,100,000 \$953,045 \$870,000 \$773,889 \$449,280 \$445,000 \$425,356 \$330,732 \$322,838 \$260,000 \$25,352 \$322,838 \$260,000 \$12,000,000 \$12,000,000 \$1,335,000,000 \$1,335,000	17 Scale Const Inc 18 Bulley & Andrews, 19 KR Millier Cont Inc 20 Summit Design & Uniformation Vear-to-Date 1 Construction Type F 1 Single Family 2 Garages & Carports 3 Res Rmdi, Addn, Int 4 Commercial Week 49 - 11/29/1 Builder P 1 International 2 LG Const Group 3 Leopardo Co Inc 4 Arco Murray 5 GD Wabash 6 Krusinski Const Co	2 45 9 21 s ilders 2/05/201 or 12/0 92 14/92 95 s Builders 8 to 12/0 ermits 2 1 1 1 1 1	\$64,000, \$62,280, \$57,550, \$57,550, \$56,907, \$56,907, \$56,907, \$64,949, \$49,949, \$3,184,5103,969, \$10,373, \$65,718 V \$32,480, \$10,500, \$8,367, \$4,000, \$3,500, \$3,500, \$2,201, \$2,201, \$2,201, \$2,201, \$2,201, \$3,500, \$3,500, \$2,201, \$2,201, \$3,500, \$3,500, \$2,201, \$2,201, \$3,500, \$3,500, \$2,201, \$2,201, \$2,201, \$3,500, \$3,500, \$2,201,
Res Rmdl, Addn, Int Fin Reroof Residential Total Residential Const Commercial Offices/Banks/R&D/Professional Demolition (Commercial) Footing & Foundation Agricultural Buildings & Sheds Other Non-Residential Buildings Comm Structures Other Than Comm Rmdl, Addn, Int Fin Reroof Commercial Total Commercial Const Solar Alternative Residential Energy Alternative Commercial Energy Total Solar Const	107 9 235 Permits 1 9 2 1 1 1 69 4 88 Permits 9 2	\$12,075,544 \$558,628 \$102,562,640 Value \$32,000,000 \$140,005 \$531,300 \$34,000,000 \$270,000 \$33,942,2192 \$194,528 \$76,591,024 Value \$99,507 \$412,396 \$511,903	0 1,293 0 1,293 0 Units 0	Year-to-Date 12 Builder Pe 1 Danley Lumber Co 2 IPRM 3 Westem Speciality 4 Lindblad Const 5 Absolute Garage 6 Zera Const Co Inc 7 JJ Swartz Co 8 Georges Garages & 9 Steele & Loeber 10 Better Built Lumber 11 Erliksen Armstrong Residential B Week 49 - 11/2918 Builder Pe 1 Crane Const 2 McShane Const Co 3 Lend Lease Const 4 The Domain Group 5 Shodeen Group LLC 6 DOM Properties 7 Pulle Homes	2/05/20 48 1 1 1 1 27 1 1 19 14 1 1 5 suilder 1 2 2 1 1 2 2 2 2	Value \$1,172,745 \$1,100,000 \$953,045 \$870,000 \$773,889 \$444,280 \$445,000 \$425,356 \$330,732 \$322,838 \$260,000 \$29,386,797 \$14,000,000 \$12,000,000 \$8,000,000 \$1,335,000 \$1,031,295	17 Scale Const Inc. 18 Bulley & Andrews, 19 KR Miller Cont Inc. 20 Summit Design &	2 45 9 21 s ilders 2/05/201 termits 120 95 95 95 s Builders 8 to 12/0 ermits 2 1 1 1 1 2	\$64,000, \$62,280, \$57,550, \$56,907, \$8,249,949, \$3,184, \$10,373, \$10,500, \$10,500, \$3,2480, \$10,500, \$3,400, \$4,400, \$
Res Rmdl, Addn, Int Fin Reroof Residential Total Residential Const Commercial Offices/Banks/R&D/Professional Demolition (Commercial) Footing & Foundation Agricultural Buildings & Sheds Other Non-Residential Buildings Comm Structures Other Than Comm Rmdl, Addn, Int Fin Reroof Commercial Total Commercial Const Solar Alternative Residential Energy Alternative Commercial Energy Total Solar Const	107 9 235 Permits 1 9 2 1 1 1 69 4 88 Permits 9 2	\$12,075,544 \$558,628 \$102,562,640 Value \$32,000,000 \$140,005 \$531,300 \$34,000,000 \$270,000 \$33,000 \$39,422,192 \$194,528 \$76,591,024 Value \$99,507 \$412,396 \$511,903	0 1,293 0 1,293 0 Units 0	Year-to-Date 12 Builder Pe 1 Daniey Lumber Co 2 IPRM 3 Westem Speciality 4 Lindblad Const 5 Absolute Garage 6 Zera Const Co Inc 7 JJ Swartz Co 8 Geörges Garages & 9 Steele & Loeber 10 Better Built Lumber 11 Eriksen Armstrong Illinois Residential B Week 49 - 11/29/18 Builder Pe 1 Crane Const 2 McShane Const Co 3 Lend Lease Const 4 The Domain Group 5 Shodeen Group LLC 6 DOM Properties 7 Pulte Homes 8 Lennar Meritus	2705/205 48 1 1 1 27 1 1 19 14 14 1 5 suildermits 1 2 2 1 1 2 2 4	Value \$1,172,745 \$1,100,000 \$983,045 \$870,000 \$773,889 \$449,280 \$445,000 \$425,356 \$330,732 \$322,238 \$260,000 \$2,000,000 \$1,000,000	17 Scale Const Inc 18 Bulley & Andrews, 19 KR Miller Cont Inc 20 Summit Design & Uniformation of State of Stat	2 45 9 21 s ilders 2/05/201 or 12/0 92 14/92 95 s Builders 8 to 12/0 ermits 2 1 1 1 1 1	\$64,000) \$62,280) \$57,550) \$56,907) 88
Res Rmdl, Addn, Int Fin Reroof Residential Total Residential Const Commercial Offices/Banks/R&D/Professional Demolition (Commercial) Footing & Foundation Agricultural Buildings & Sheds Other Non-Residential Buildings Comm Structures Other Than Comm Rmdl, Addn, Int Fin Reroof Commercial Total Commercial Const Solar Alternative Residential Energy Alternative Commercial Energy Total Solar Const	107 9 235 Permits 1 9 2 1 1 1 69 4 88 Permits 9 2	\$12,075,544 \$558,628 \$102,562,640 Value \$32,000,000 \$140,005 \$531,300 \$34,000,000 \$270,000 \$33,000 \$39,422,192 \$194,528 \$76,591,024 Value \$99,507 \$412,396 \$511,903	0 1,293 0 1,293 0 Units 0	Year-to-Date 12 Builder Pe 1 Danley Lumber Co 2 IPRM 3 Westem Speciality 4 Lindblad Const 5 Absolute Garage 6 Zera Const Co Inc 7 JJ Swartz Co 8 Georges Garages & 9 Steele & Loeber 10 Better Built Lumber 11 Erliksen Armstrong Residential B Week 49 - 11/2918 Builder Pe 1 Crane Const 2 McShane Const Co 3 Lend Lease Const 4 The Domain Group 5 Shodeen Group LLC 6 DOM Properties 7 Pulle Homes	2/05/20 48 1 1 1 1 27 1 1 19 14 1 1 2 3 Suilder 1 2 2 1 1 2 2 2 2	Value \$1,172,745 \$1,100,000 \$953,045 \$870,000 \$773,889 \$444,280 \$445,000 \$425,356 \$330,732 \$322,838 \$260,000 \$29,386,797 \$14,000,000 \$12,000,000 \$8,000,000 \$1,3335,000 \$1,031,295	17 Scale Const Inc. 18 Bulley & Andrews, 19 KR Miller Cont Inc. 20 Summit Design &	2 45 9 21 siliders 2/05/201 Permits 120 92 1492 95 s Smilders 8 to 12/0 ermits 2 1 1 1 1 1 2 1	\$64,000,1 \$62,280,1 \$57,550,1 \$56,907,1 8 \$49,940,1 \$3,184,1 \$103,969,1 \$103,373,1

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Source: Construction Monitor 2018

Table 20. 2018 South Dakota Building Permit Summary

Construction Monitor			South Dakota Single Family Builders Year-to-Date 12/05/2018		South Dakota Multi-Family Builders Year-to-Date 12/05/2018				
South Dakota Build					lomes	Value	Builder	Units	Va
Year-to-Dat				1 Empire Homes LLC	173	\$14,143,584	1 Signature	384	\$26,500,4
Residential	Permits		Units	2 Allen Homes Inc	77	\$13,166,308	2 Lloyd Const	278	\$22,797,0
		Value		3 KN Const Inc	72	\$12,967,067	3 Consolidated Const	272	\$21,841,3
Single Family Homes	1,532	\$322,386,571	1780	4 Equity Homes Inc	65	\$10,770,598	4 Enclave	182	\$17,269,6
Duplexes & Twin Homes	108	\$19,463,223	216	5 Signature Companies	170	\$9,699,160	5 Owner	175	\$14,000,0
Apartments & Condos	68	\$126,300,705	1592	6 Paul Fick Homes	45	\$8,771,668	6 Blackwing Elite	100	\$9,959,4
Cabins	16	\$780,200	0	7 KN Construction Inc	29	\$4,951,074	7 Scull Construction	69	\$5,494,3
Other Residential Structures	112	\$3,783,897	0	8 Scott Gilbert Const Co		\$3,897,062	8 Lloyd Const &	104	\$5,103,0
Swimming Pools & Spas	40	\$1,993,000	0	9 Trademark Homes Inc	10 11	\$3,558,043	9 Equity Homes Inc	56	\$4,466,2
Garages & Carports	339	\$11,160,960	0	10 Legacy Enterprises 11 Kaski Construction	11	\$3,554,200 \$3,228,400	10 Waldner Const	72	\$4,400,
Res Rmdl, Addn, Int Fin	2,030	\$48,501,926	0	12 WT Const Inc	12	\$2,992,421	South D	akota	
Reroof Residential	178	\$3,447,719	0	13 Tom Smith Masonry	13	\$2,843,682	Other Residen		
Total Residential Const	4,423	\$537,818,176	3,588	14 Loyalty Homes LLC	17	\$2,695,381	Year-to-Date	12/05/20	018
Commercial	Permits	Value	Units	15 A Plus Const	10	\$2,611,477	Builder	Permits	V
Offic es/Banks/R&D/Professiona		\$46,004,367	0	16 D&T Ventures LLC	15	\$2,331,536	1 Hjellming Const	9	\$1,487,
	32		0	17 Hunter Homes LLC	17	\$2,141,971	2 Deffenbaugh Const	2	\$828,
Retail/Whsl/Dining/Personal		\$41,845,828		18 Richard Brake Const	36	\$2,072,202	3 Combined Pool &	12	\$805,
Auto/Truck Sales & Service	8	\$4,032,500	10	19 Clark Drew Const	13	\$2,070,858	4 ABC Seamless	41	\$791,
Parking Structures & Carports	9	\$508,500	0	20 Pride Built Homes	5	\$1,876,335	5 Juranek Home	27	\$621,
Motels, Hotels, & RV Parks	4	\$22,550,000	0	21 Cousin Construction	4	\$1,858,777	6 Morton Buildings Inc	7	\$596,
Indus-Manuf, Whse-Shops,	30	\$63,697,392	0	22 Ronning Companies	9	\$1,839,314	7 Trademark Homes	5	\$517,
Public Transportation	1	\$286,135	0	23 Axford Const Inc.	6	\$1,820,817	8 Cosand Construction		\$425,
Hospitals & Other Institutions	10	\$12,988,211	0	24 Dakota Land Design	9	\$1,804,340	9 Seykora Remodeling		\$376,
Churches & Other Religious	5	\$3,990,625	0	25 Blair Masonry Homes	8	\$1,794,358	10 Cal Weidenbach	1	\$365,
Public Buildings & Projects	2	\$4,531,000	0	26 Keystone Homes LLC	10	\$1,722,346	11 A-Z Contracting Lic	1	\$358,
Utilities (gas elect wtr swr)	4	\$1,017,600	0	27 Legend Builders Inc	8	\$1,718,058	12 Brink & Nelson	5	\$356,
Parks, Recreation, Entertain,	17	\$9,208,830	0	28 The Sundance Group	11	\$1,698,845	13 Carlson General	5	\$350,
			0	29 Veurink Contracting	8	\$1,674,486	14 KN Const Inc	7	\$349,
Agricultural Buildings & Sheds Other Non Residential Buildings	147 100	\$9,594,541 \$43.154.195	63	30 MD Homes LLC	4	\$1,657,234	15 Beatch Const LLC 16 Nicks Const Service	7	\$333, \$301,
Other Non-Residential Buildings				31 Rallis Const	4	\$1,643,114		4	
Comm Structures Other Than	19	\$12,306,527	0	32 Glammeier	8	\$1,642,450	17 Zomes Const 18 Paradigm Const	2	\$300,
Comm Rmdl, Addn, Int Fin	647	\$332,609,826	0	33 C Lemme Companies	7	\$1,636,120	19 Dels Construction Inc		\$290, \$287,
Reroof Commercial	98	\$10,114,731	0	34 Nesland Const Co	6 8	\$1,557,001 \$1,551,567	20 Johnson Controls	1	\$278,
Total Commercial Const	1,175	\$618,440,768	73	35 DAZ Construction 36 Diversified	5	\$1,547,450	21 DMG Const	4	\$275.
Solar	Permits	Value	Units	37 Sierra Const	6	\$1,499,332	22 Paul Fick Homes	8	\$273,
Alternative Residential Energy	5	\$320,796	00	38 Guthrie Inc	8	\$1,462,708	23 Equity Homes Inc	11	\$271,
Alternative Commercial Energy	2	\$230,000	0	39 All Around	6	\$1,455,828			4 ,
	7	\$550,796	0	40 G & D Harr Const LLC	7	\$1,443,011	South D		
Total Solar Const	-								rs
T				41 Wood Builders Inc.	7		Commercia		
Total South Dakota Const	5,605	\$1,156,809,728	3,661	41 Wood Builders Inc 42 Dailey Construction	7 4	\$1,387,206	Year-to-Date	12/05/20	018
Total South Dakota Const	5,605			41 Wood Builders Inc 42 Dailey Construction 43 Skogen Construction			Year-to-Date Builder	12/05/20 Permits)18 V
Total South Dakota Const	5,605			42 Dailey Construction	4	\$1,387,206 \$1,380,000	Year-to-Date Builder 1 Layton/Gustafson, A	12/05/20 Permits 2	018 V \$93,675,
		\$1,156,809,728		42 Dailey Construction 43 Skogen Construction 44 Ronning Companies 45 Nesland Construction	4	\$1,387,206 \$1,380,000 \$1,350,000	Year-to-Date Builder 1 Layton/Gustafson, A 2 Henry Carlson Co	12/05/20 Permits 2 19	018 V \$93,675, \$39,314,
South Dakota Build	ling Perr	\$1,156,809,728 mit Summary	3,661	42 Dailey Construction 43 Skogen Construction 44 Ronning Companies 45 Nesland Construction 46 Howie Construction	4 1 6 3 6	\$1,387,206 \$1,380,000 \$1,350,000 \$1,348,200 \$1,346,118 \$1,338,959	Year-to-Date Builder 1 Layton/Gustafson, A 2 Henry Carlson Co 3 McGough Const	12/05/20 Permits 2 19 2	018 V \$93,675, \$39,314, \$32,052,
South Dakota Build Week 49 - 11/29/18 to 12/	li ng Perr 05/18 (p	\$1,156,809,728 mit Summary ermits over \$5,00	3,661	42 Dailey Construction 43 Skogen Construction 44 Ronning Companies 45 Nesland Construction 46 Howle Construction 47 Chad Zandstra	4 1 6 3 6 6	\$1,387,206 \$1,380,000 \$1,350,000 \$1,348,200 \$1,346,118 \$1,338,959 \$1,313,317	Year-to-Date Builder 1 Layton/Gustafson, A 2 Henry Carlson Co 3 McGough Const 4 Lloyd Const	12/05/20 Permits 2 19 2 4	018 V \$93,675, \$39,314, \$32,052, \$26,728,
South Dakota Build Week 49 - 11/29/18 to 12/ Residential	ling Perr 05/18 (p	\$1,156,809,728 mit Summary ermits over \$5,00 Value	3,661 (0) Units	42 Dailey Construction 43 Skogen Construction 44 Ronning Companies 45 Nesland Construction 46 Howie Construction 47 Chad Zandstra 48 Elite Custom Homes	4 1 6 3 6 6 8	\$1,387,206 \$1,380,000 \$1,350,000 \$1,348,200 \$1,346,118 \$1,338,959 \$1,313,317 \$1,311,052	Year-to-Date Builder 1 Layton/Gustafson, A 2 Henry Carlson Co 3 McGough Const 4 Lloyd Const 5 Scull Construction	12/05/20 Permits 2 19 2 4 30	\$93,675, \$39,314, \$32,052, \$26,728, \$22,851,
South Dakota Build Week 49 - 11/29/18 to 12/ Residential Single Family Homes	ling Perr 05/18 (p Permits 43	\$1,156,809,728 mit Summary ermits over \$5,00 Value \$11,541,790	3,661 00) Units 43	42 Dailey Construction 43 Skogen Construction 44 Ronning Companies 45 Nesland Construction 46 Howle Construction 47 Chad Zandstra 48 Elite Custom Homes 49 Stecor Initiatives LLC	4 1 6 3 6 6 8 7	\$1,387,206 \$1,380,000 \$1,350,000 \$1,348,200 \$1,346,118 \$1,338,959 \$1,313,317 \$1,311,052 \$1,310,446	Year-to-Date Builder 1 Layton/Gustafson, A 2 Henry Carlson Co 3 McGough Const 4 Lloyd Const 5 Scull Construction 6 Golden Rule Const	12/05/20 Permits 2 19 2 4 30 8	\$93,675, \$39,314, \$32,052, \$26,728, \$22,851, \$21,884,
South Dakota Build Week 49 - 11/29/18 to 12/ Residential Single Family Homes Demolition	ling Perr 05/18 (p Permits 43 13	\$1,156,809,728 mit Summary ermits over \$5,00 Value \$11,541,790 \$52,050	3,661 00) Units 43 0	42 Dailey Construction 43 Skogen Construction 44 Ronning Companies 45 Nesland Construction 46 Howle Construction 47 Chad Zandstra 48 Elite Custom Homes 49 Stecor Initiatives LLC 50 Diversified Const	4 1 6 3 6 6 8 7 4	\$1,387,206 \$1,380,000 \$1,350,000 \$1,346,118 \$1,346,118 \$1,338,959 \$1,313,317 \$1,311,052 \$1,310,446 \$1,295,000	Year-to-Date Builder 1 Layton/Gustafson, A 2 Henry Carlson Co 3 McGough Const 4 Lloyd Const 5 Scull Construction 6 Golden Rule Const 7 Clayco	12/05/20 Permits 2 19 2 4 30 8 2	V \$93,675, \$39,314, \$32,052, \$26,728, \$22,851, \$21,884, \$15,793,
South Dakota Build Week 49 - 11/29/18 to 12/ Residential Single Family Homes Demolition Footing & Foundation	ling Perr 05/18 (p Permits 43 13 3	\$1,156,809,728 mit Summary ermits over \$5,00 Value \$11,541,790 \$52,050 \$34,411	3,661 00) Units 43 0	42 Dailey Construction 43 Skogen Construction 44 Ronning Companies 45 Nesland Construction 47 Chad Zandstra 48 Elife Custom Homes 49 Stecor Initiatives LLC 50 Diversified Const	4 1 6 3 6 6 8 7 4 5	\$1,387,206 \$1,380,000 \$1,350,000 \$1,348,200 \$1,346,118 \$1,338,959 \$1,313,317 \$1,311,052 \$1,310,446 \$1,295,000 \$1,268,562	Year-to-Date Builder 1 Layton/Gustafson, A 2 Henry Carlson Co 3 McGough Const 4 Lloyd Const 5 Scull Construction 6 Golden Rule Const 7 Clayco 8 Consolidated Const	12/05/20 Permits 2 19 2 4 30 8 2 4	V \$93,675, \$39,314, \$32,052, \$26,728, \$22,851, \$21,884, \$15,793, \$15,566,
South Dakota Build Week 49 - 11/29/18 to 12/ Residential Single Family Homes Demolition Footling & Foundation Duptexes & Twin Homes	ling Perr 05/18 (p Permits 43 13 3	\$1,156,809,728 mit Summary ermits over \$5,00 Value \$11,541,790 \$52,050 \$34,411 \$215,000	3,661 00) Units 43 0 0 2	42 Dailey Construction 43 Skogen Construction 44 Ronning Companies 45 Nesland Construction 46 Howie Construction 47 Chad Zandstra 48 Eilite Custom Homes 49 Stecor Initiatives LLC 50 Diversified Const 51 Meihhaff Construction 52 Boom Construction	4 1 6 3 6 6 8 7 4 5 7	\$1,387,206 \$1,380,000 \$1,350,000 \$1,348,200 \$1,346,118 \$1,338,959 \$1,313,317 \$1,311,052 \$1,310,446 \$1,295,000 \$1,268,562 \$1,236,150	Year-to-Date Builder 1 Layton/Gustafson, A 2 Henry Carlson Co 3 McGough Const 4 Lloyd Const 5 Scull Construction 6 Golden Rule Const 7 Clayco 8 Consolidated Const 9 Journey Group Co	12/05/20 Permits 2 19 2 4 30 8 2 4 11	V \$93,675, \$39,314, \$32,052, \$26,728, \$22,851, \$21,884, \$15,793, \$15,566, \$13,065,
South Dakota Build Week 49 - 11/29/18 to 12/ Residential Single Family Homes Demolition Footing & Foundation Duplexes & Twin Homes Apartments & Condos	ling Perr 05/18 (p Permits 43 13 3 1	\$1,156,809,728 mit Summary ermits over \$5,00 Value \$11,541,790 \$52,050 \$34,411 \$215,000 \$5,200,000	3,661 (0) Units 43 0 0 2 82	42 Dalley Construction 43 Skogen Construction 44 Ronning Companies 45 Nesland Construction 46 Howie Construction 47 Chad Zandstra 48 Elite Custom Homes 49 Steor Initiatives LLC 50 Diversified Const 51 Mehlhaff Construction 52 Boom Construction 53 The Carpenter Co Inc	4 1 6 3 6 6 8 7 4 5 7	\$1,387,206 \$1,380,000 \$1,350,000 \$1,348,200 \$1,346,118 \$1,338,959 \$1,313,317 \$1,311,052 \$1,310,446 \$1,295,000 \$1,268,562 \$1,236,150 \$1,227,380	Year-to-Date Builder 1 Layton/Gustafson, A 2 Henry Carlson Co 3 McGough Const 4 Lloyd Const 5 Scull Construction 6 Golden Rule Const 7 Clayco 8 Consolidated Const 9 Journey Group Co 10 RCS Construction	12/05/20 Permits 2 19 2 4 30 8 2 4 11	V \$93,675, \$39,314, \$32,052, \$26,728, \$22,851, \$21,884, \$15,793, \$15,566, \$13,065, \$11,025,
South Dakota Build Week 49 - 11/29/18 to 12/ Residential Single Family Homes Demolition Footing & Foundation Duplexes & Twin Homes Apartments & Condos Other Residential Structures	ling Perr 05/18 (p Permits 43 13 3 1 3 4	\$1,156,809,728 mit Summary ermits over \$5,00 Value \$11,541,790 \$52,050 \$34,411 \$215,000 \$5,200,000 \$20,000	3,661 00) Units 43 0 0 2 82 0	42 Dalley Construction 43 Skogen Construction 44 Ronning Companies 45 Nesland Construction 46 Howle Construction 47 Chad Zandstra 48 Elite Custom Homes 49 Stecor Initiatives LLC 50 Diversified Const 51 Mehhadf Construction 52 Boom Construction 53 The Carpenter Co Inc 54 Ronning Entlerprises	4 1 6 3 6 6 8 7 4 5 7 4 6	\$1,387,206 \$1,380,000 \$1,360,000 \$1,348,200 \$1,346,118 \$1,338,959 \$1,313,317 \$1,311,052 \$1,310,446 \$1,295,000 \$1,268,562 \$1,236,150 \$1,227,380 \$1,218,266	Year-to-Date Builder 1 Layton/Gustafson, A 2 Henry Carlson Co 3 McGough Const 4 Lloyd Const 5 Scull Construction 6 Golden Rule Const 7 Clayco 8 Consolidated Const 9 Journey Group Co 10 RCS Construction 1 Journey Group	12/05/20 Permits 2 19 2 4 30 8 2 4 11 9	V \$93,675, \$39,314, \$32,052, \$26,728, \$22,851, \$21,884, \$15,793, \$15,566, \$13,065, \$10,191,
South Dakota Build Week 49 - 11/29/18 to 12/ Residential Single Family Homes Demolition Footing & Foundation Duptexes & Twin Homes Apartments & Condos Other Residential Structures Garages & Carports	ling Perr 05/18 (p Permits 43 13 3 1 3 4 6	\$1,156,809,728 mit Summary ermits over \$5,000 \$11,541,790 \$52,050 \$34,411 \$215,000 \$5,200,000 \$114,652	3,661 Units 43 0 0 2 82 0 0	42 Dalley Construction 43 Skogen Construction 44 Ronning Companies 45 Nesland Construction 46 Howie Construction 47 Chad Zandstra 48 Elite Custom Homes 49 Steor Initiatives LLC 50 Diversified Const 51 Mehlhaff Construction 52 Boom Construction 53 The Carpenter Co Inc	4 1 6 3 6 6 8 7 4 5 7	\$1,387,206 \$1,380,000 \$1,350,000 \$1,348,200 \$1,346,118 \$1,338,959 \$1,313,317 \$1,311,052 \$1,310,446 \$1,295,000 \$1,268,562 \$1,236,150 \$1,227,380	Year-to-Date Builder 1 Layton/Gustafson, A 2 Henry Carlson Co 3 McGough Const 4 Lloyd Const 5 Scull Construction 6 Golden Rule Const 7 Clayco 8 Consolidated Const 9 Journey Group Co 10 RCS Construction 11 Journey Group 12 Gil Haugan Const	12/05/20 Permits 2 19 2 4 30 8 2 4 11 9 11	V \$93,675, \$39,314, \$32,052, \$26,728, \$22,851, \$21,884, \$15,793, \$15,566, \$13,065, \$11,025, \$10,191, \$8,086,
South Dakota Build Week 49 - 11/29/18 to 12/ Residential Single Family Homes Demolition Footing & Foundation Duplexes & Twin Homes Apartments & Condos Other Residential Structures Garages & Carports Res Rmdl, Addn, Int Fin	ling Perr 05/18 (p Permits 43 13 3 1 3 4 6 52	\$1,156,809,728 mit Summary ermits over \$5,00 Value \$11,541,790 \$52,050 \$34,411 \$215,000 \$5,20,000 \$11,4652 \$999,511	3,661 O() Units 43 0 2 82 0 0 0	42 Dalley Construction 43 Skogen Construction 44 Ronning Companies 45 Nesland Construction 46 Howle Construction 47 Chad Zandstra 48 Elite Custom Homes 49 Stecor Initiatives LLC 50 Diversified Construction 52 Boom Construction 53 The Carpenter Co Inc. 54 Ronning Enterprises 55 Jeren Homes Inc	4 1 6 3 6 6 8 7 4 5 7 4 6 4	\$1,387,206 \$1,380,000 \$1,360,000 \$1,348,200 \$1,346,118 \$1,338,959 \$1,313,317 \$1,311,052 \$1,310,446 \$1,295,000 \$1,268,562 \$1,236,150 \$1,227,380 \$1,218,266	Year-to-Date Builder 1 Layton/Gustafson, A 2 Henry Carlson Co 3 McGough Const 4 Lloyd Const 5 Scull Construction 6 Golden Rule Const 7 Clayco 8 Consolidated Const 9 Journey Group Co 10 RCS Construction 11 Journey Group 12 Gil Haugan Const 13 Seco Construction 3 Seco Construction	12/05/20 Permits 2 19 2 4 30 8 2 4 11 9 11 8 1	018 V \$93,675, \$39,314, \$32,052, \$26,728, \$22,851, \$21,884, \$15,793, \$15,566, \$13,065, \$11,025, \$10,191, \$8,086, \$7,643,
South Dakota Build Week 49 - 11/29/18 to 12/ Residential Single Family Homes Demolition Footing & Foundation Duplexes & Twin Homes Apartments & Condos Other Residential Structures Garages & Carports	ling Perr 05/18 (p Permits 43 13 3 1 3 4 6	\$1,156,809,728 mit Summary ermits over \$5,000 \$11,541,790 \$52,050 \$34,411 \$215,000 \$5,200,000 \$114,652	3,661 Units 43 0 0 2 82 0 0 0	42 Dailey Construction 43 Skogen Construction 44 Ronning Companies 45 Nesland Construction 46 Howie Construction 47 Chad Zandstra 48 Elite Custom Homes 49 Stecor Initiatives LLC 50 Diversified Const 51 Mehihaff Construction 52 Boom Construction 53 The Carpenter Co Inc 54 Ronning Enterprises 55 Jeren Homes Inc	4 1 6 3 6 6 8 7 4 5 7 4 6 4 4 kota	\$1,387,206 \$1,380,000 \$1,380,000 \$1,348,200 \$1,346,118 \$1,338,959 \$1,313,317 \$1,311,052 \$1,310,446 \$1,295,000 \$1,268,562 \$1,236,150 \$1,227,380 \$1,218,266 \$1,237,373	Year-to-Date Builder 1 Layton/Gustafson, A 2 Henry Carlson Co 3 McGough Const 4 Lloyd Const 5 Scull Construction 6 Golden Rule Const 7 Clayco 8 Consolidated Const 9 Journey Group Co 10 RCS Construction 11 Journey Group 12 Gil Haugan Const	12/05/20 Permits 2 19 2 4 30 8 2 4 11 9 11	V \$93,675, \$39,314, \$32,052, \$26,728, \$22,851, \$21,884, \$15,793, \$15,566, \$13,065, \$10,191, \$8,086, \$7,643, \$7,503,
South Dakota Build Week 49 - 11/29/18 to 12/ Residential Single Family Homes Demolition Footing & Foundation Duplexes & Twin Homes Apartments & Condos Other Residential Structures Garages & Carports Res Rmdl, Addn, Int Fin	ling Perr 05/18 (p Permits 43 13 3 1 3 4 6 52	\$1,156,809,728 mit Summary ermits over \$5,00 Value \$11,541,790 \$52,050 \$34,411 \$215,000 \$5,20,000 \$11,4652 \$999,511	3,661 Units 43 0 2 82 0 0 0 0	42 Dalley Construction 43 Skogen Construction 44 Ronning Companies 45 Nesland Construction 46 Howie Construction 47 Chad Zandstra 48 Eille Custom Homes 49 Stecor Intitatives LLC 50 Diversified Construction 52 Boom Construction 53 The Capenter Co Inc. 54 Ronning Enterprises 55 Jeren Homes Inc. South Dal Garage and Carp	4 1 6 3 6 6 8 7 4 5 7 4 6 4 kota ort Bu i	\$1,387,206 \$1,380,000 \$1,336,000 \$1,348,200 \$1,348,200 \$1,348,200 \$1,338,959 \$1,313,317 \$1,311,052 \$1,310,446 \$1,295,000 \$1,268,562 \$1,296,150 \$1,273,380 \$1,218,266 \$1,203,273	Year-to-Date Builder 1 Layton/Gustafson, A 2 Henry Carlson Co 3 McGough Const 4 Lloyd Const 5 Scull Construction 6 Golden Rule Const 7 Clayco 8 Consolidated Const 9 Journey Group Co 10 RCS Construction 11 Journey Group 12 Gil Haugan Const 13 Seco Construction 14 Gustafson Builders 14 Gustafson Builders	12/05/20 Permits 2 19 2 4 30 8 2 4 11 9 11 8 1	018 V \$93,675, \$39,314, \$32,052, \$26,728, \$22,851, \$21,884, \$15,793, \$15,566, \$13,065, \$11,025, \$11,025, \$11,025, \$11,025, \$10,191, \$8,086, \$7,643, \$7,503, \$7,397,
South Dakota Build Week 49 - 11/29/18 to 12/ Residential Single Family Homes Demolition Footing & Foundation Duplexes & Twin Homes Apartments & Condos Other Residential Structures Garages & Carports Res Rmdl, Addn, Int Fin Reroof Residential Total Residential Const	ling Perr 05/18 (p Permits 43 13 3 1 3 4 6 52 6	\$1,156,809,728 mit Summary ermits over \$5,00 \$11,541,790 \$52,050 \$34,411 \$215,000 \$5,200,000 \$14,652 \$999,511 \$118,609 \$18,296,024	3,661 Units 43 0 2 82 0 0 0 1 127	42 Dalley Construction 43 Skogen Construction 43 Skogen Construction 44 Ronning Companies 45 Nesland Construction 47 Chad Zandstra 48 Elife Custom Homes 49 Stecor Initiatives LLC 50 Diversified Const 51 Mehhaff Construction 52 Boom Construction 53 The Carpenter Co Inc 54 Ronning Enterprises 55 Jeren Homes Inc South Dal Garage and Carp Year-to-Dale 12	4 1 6 3 6 6 8 7 4 5 7 4 6 4 kota ort Bui 2/05/20	\$1,387,206 \$1,390,000 \$1,350,000 \$1,348,200 \$1,348,200 \$1,348,201 \$1,313,317 \$1,311,052 \$1,313,416 \$1,295,000 \$1,288,562 \$1,227,380 \$1,218,266 \$1,203,273 \$1,218,266 \$1,203,273	Year-to-Date Builder 1 Layton/Gustafson, A 2 Henry Carlson Co 3 McGough Const 4 Lloyd Const 5 Scull Construction 6 Golden Rule Const 7 Clayco 8 Consolidated Const 9 Journey Group Co 10 RCS Construction 11 Journey Group 12 Gil Haugan Const 13 Seco Construction 14 Gustafson Builders 15 POET Design &	12/05/20 Permits 2 19 2 4 30 8 2 4 11 9 11 8 1 13 3 32 3	018 V \$93,675, \$39,314, \$32,052, \$26,728, \$22,851, \$21,884, \$15,793, \$15,566, \$11,025, \$10,191, \$8,096, \$7,643, \$7,503, \$7,503, \$7,507, \$7,205,
South Dakota Build Week 49 - 11/29/18 to 12/ Residential Single Family Homes Demolition Footing & Foundation Duplexes & Twin Homes Apartments & Condos Other Residential Structures Garages & Carports Res Rmdl, Addn, Int Fin Reroof Residential Total Residential Const Commercial	ling Perr 05/18 (p Permits 43 13 3 1 3 4 6 52 6	\$1,156,809,728 mit Summary ermits over \$5,00 Value \$11,541,790 \$52,050 \$34,411 \$215,000 \$520,000 \$11,4652 \$999,511 \$118,690 \$18,296,024 Value	3,661 Units 43 0 2 82 0 0 0 127 Units	42 Dalley Construction 43 Skogen Construction 44 Ronning Companies 45 Nesland Construction 46 Howie Construction 47 Chad Zandstra 48 Eilte Custom Homes 49 Stecor Initiatives LLC 50 Diversified Const 51 Mehihaff Construction 52 Boom Construction 53 The Carpenter Co Inc 54 Ronning Enterprises 55 Jeren Homes Inc South Dal Garage and Carp Year-to-Dale 12 Builder Pe	4 1 6 3 6 6 8 7 4 5 7 4 6 4 kota ort Bui 2/05/20	\$1,387,206 \$1,390,000 \$1,350,000 \$1,348,200 \$1,348,200 \$1,348,118 \$1,338,959 \$1,313,317 \$1,311,052 \$1,310,446 \$1,295,000 \$1,268,562 \$1,236,150 \$1,227,380 \$1,218,266 \$1,203,273	Year-to-Date Builder 1 Layton/Gustafson, A 2 Henry Carison Co 3 McGough Const 4 Lloyd Const 5 Scull Construction 6 Golden Rule Const 7 Clayco 8 Consolidated Const 9 Journey Group Co 10 RCS Construction 11 Journey Group 12 Gil Haugan Const 13 Seco Construction 14 Gustafson Builders 15 POET Design & 16 Reynolds Const 17 Fiegen Construction 18 Peska Const	12/05/20 Permits 2 19 2 4 30 8 2 4 11 9 11 8 1 13 3 3 32 6	018 V \$93,675, \$39,314, \$32,052, \$26,728, \$22,851, \$21,884, \$15,793, \$15,566, \$11,025, \$10,191, \$8,086, \$7,643, \$7,503, \$7,397, \$7,205, \$6,6816,
South Dakota Build Week 49 - 11/29/18 to 12/ Residential Single Family Homes Demolition Footing & Foundation Duplexes & Twin Homes Apartments & Condos Other Residential Structures Garages & Carports Res Rmdl, Addn, Int Fin Reroof Residential Total Residential Footing & Foundation	ling Perr 05/18 (p Pemits 43 13 3 1 3 4 6 52 6 131 Pemits	\$1,156,809,728 mit Summary ermits over \$5,00 Value \$11,541,790 \$52,050 \$34,411 \$215,000 \$5,200,000 \$114,652 \$999,511 \$118,609 \$18,286,024 Value \$400,000	3,661 Units 43 0 2 82 0 0 0 127 Units 0	42 Dalley Construction 43 Skogen Construction 44 Ronning Companies 45 Nesland Construction 46 Howle Construction 47 Chad Zandstra 48 Eitle Custom Homes 49 Stecor Initiatives LLC 50 Diversified Construction 52 Boom Construction 53 The Carpenter Co Inc. 54 Ronning Enterprises 55 Jeren Homes Inc South Dal Garage and Carp Year-to-Date 12 Builder Pe 1 Millis Const	4 1 6 3 6 6 8 7 4 5 7 4 6 4 kota ort Bu 2/05/20	\$1,387,206 \$1,380,000 \$1,348,200 \$1,348,200 \$1,348,118 \$1,338,959 \$1,313,317 \$1,311,052 \$1,310,446 \$1,265,000 \$1,268,562 \$1,236,150 \$1,227,380 \$1,218,256 \$1,203,273 \$1,203,273 \$1,203,273 \$1,203,273	Year-to-Date Builder 1 Laylon/Gustafson, A 2 Henry Carison Co 3 McGough Const 4 Lloyd Const 5 Scull Construction 6 Golden Rule Const 7 Clayco 8 Consolidated Const 9 Journey Group Co 10 RCS Construction 11 Journey Group 12 Gil Haugan Const 13 Seco Construction 14 Gustafson Builders 15 POET Design & 16 Reynolds Const 17 Fiegen Construction 18 Peska Const 19 Clark Drew Const	12/05/20 Permits 2 19 2 4 30 8 2 4 11 9 11 8 1 13 3 32 3 6 5	018 V \$93.675, \$39,314, \$32,052, \$26,728, \$21,884, \$15,793, \$15,566, \$13,065, \$11,025, \$11,025, \$11,025, \$7,643, \$7,503, \$7,503, \$7,503, \$7,397, \$7,205, \$6,688, \$6,415, \$6,264,
South Dakota Build Week 49 - 11/29/18 to 12/ Residential Single Family Homes Demolition Footing & Foundation Duplexes & Twin Homes Apartments & Condos Other Residential Structures Garages & Carports Res Rmdi, Addn, Int Fin Reroof Residential Total Residential Const Commercial Footing & Foundation Retail/Whsi/Dining/Personal	ling Perr 05/18 (p Permits 43 3 1 3 4 6 52 6 131 Permits 1	\$1,156,809,728 mit Summary ermits over \$5,00 \$11,541,790 \$52,050 \$34,411 \$215,000 \$5,200,000 \$114,652 \$999,511 \$118,609 \$18,296,024 Value \$400,000 \$561,089	3,661 Units 43 0 0 2 82 0 0 0 127 Units 0 0	42 Dailey Construction 43 Skogen Construction 44 Ronning Companies 45 Nesiand Construction 46 Howie Construction 47 Chad Zandstra 48 Elite Custom Homes 49 Stecor Initiatives LLC 50 Diversified Const 51 Mehthaff Construction 52 Boom Construction 53 The Carpentier Co Inc 54 Ronning Enterprises 55 Jeren Homes Inc South Dai Garage and Carp Year-Io-Date 12 Builder 1 Mills Const	4 1 6 3 6 8 7 4 5 7 4 6 4 kota ort Bui 2/05/20 emits 1 14	\$1,387,206 \$1,380,000 \$1,350,000 \$1,348,200 \$1,348,200 \$1,348,118 \$1,338,959 \$1,313,317 \$1,311,052 \$1,310,446 \$1,295,000 \$1,268,562 \$1,236,150 \$1,227,380 \$1,218,266 \$1,203,273 \$1,218,266 \$1,203,273 \$1,218,266 \$1,203,273	Year-to-Date Builder 1 Layton/Gustafson, A 2 Henry Carison Co 3 McGough Const 4 Lloyd Const 5 Scull Construction 6 Golden Rule Const 7 Clayco 8 Consolidated Const 9 Journey Group Co 10 RCS Construction 11 Journey Group 12 Gil Haugan Const 13 Seco Construction 14 Gustafson Builders 15 POET Design & 16 Reynolds Const 17 Fiegen Construction 18 Peska Const	12/05/20 Permits 2 19 2 4 30 8 2 4 11 9 11 8 1 13 3 3 32 6	018 V \$93.675, \$39,314, \$32,052, \$26,728, \$21,884, \$15,793, \$15,566, \$13,065, \$11,025, \$11,025, \$11,025, \$7,643, \$7,503, \$7,503, \$7,503, \$7,397, \$7,205, \$6,688, \$6,415, \$6,264,
South Dakota Build Week 49 - 11/29/18 to 12/ Residential Single Family Homes Demolition Footing & Foundation Duplexes & Twin Homes Apartments & Condos Other Residential Structures Garages & Carports Res Rmdl, Addn, Int Fin Reroof Residential Total Residential Const Commercial Footing & Foundation Retail/Whsi/Dining/Personal Auto/Truck Sales & Service	ling Perr 05/18 (p Pemitts 43 13 3 4 6 52 6 131 Pemitts	\$1,156,809,728 mit Summary ermits over \$5,00 Value \$11,541,790 \$52,050 \$34,411 \$215,000 \$5,200,000 \$114,652 \$999,511 \$118,609 \$18,296,024 Value \$400,000 \$561,089 \$793,000	3,661 Units 43 0 0 2 82 0 0 0 0 127 Units 0 10	42 Dalley Construction 43 Skogen Construction 44 Ronning Companies 45 Nesiand Construction 46 Howie Construction 47 Chad Zandstra 48 Eilite Custom Homes 49 Stecor Initiatives LLC 50 Diversified Const 51 Mehlhaff Construction 52 Boom Construction 53 The Cappenter Co Inc 54 Ronning Enterprises 55 Jeren Homes Inc South Dal Garage and Carp Year-to-Date 12 Builder 1 Mills Const 2 Enclave 3 American Builders	4 1 6 3 6 6 8 7 4 5 7 4 6 4 kota ort Bu 2/05/20 2/05/20 2 mits 1 14	\$1,387,206 \$1,380,000 \$1,348,200 \$1,348,200 \$1,348,118 \$1,338,959 \$1,313,317 \$1,311,052 \$1,310,446 \$1,295,000 \$1,288,562 \$1,236,150 \$1,227,380 \$1,218,256 \$1,203,273	Year-to-Date Builder 1 Laylon/Gustafson, A 2 Henry Carlson Co 3 McGough Const 4 Lloyd Const 5 Scull Construction 6 Golden Rule Const 7 Clayco 8 Consolidated Const 9 Journey Group Co 10 RCS Construction 11 Journey Group 12 Gil Haugan Const 13 Seco Construction 14 Gustafson Builders 15 POET Design & 16 Reynolds Const 17 Fiegen Construction 18 Peska Const 20 Lloyd Const 20 Lloyd Const 20 Lloyd Const 2	12/05/20 Permits 2 19 2 4 30 8 2 4 11 9 11 8 1 13 3 32 3 6 5 4	018 V \$93.675, \$39,314, \$32,052, \$26,728, \$21,884, \$15,793, \$15,566, \$13,065, \$11,025, \$11,025, \$11,025, \$7,643, \$7,503, \$7,503, \$7,503, \$7,397, \$7,205, \$6,688, \$6,415, \$6,264,
South Dakota Build Week 49 - 11/29/18 to 12/ Residential Single Family Homes Demolition Footing & Foundation Duplexes & Twin Homes Apartments & Condos Other Residential Structures Garages & Carports Res Rmdi, Addn, Int Fin Resroof Residential Total Residential Total Residential Commercial Footing & Foundation Retail/Whs/I/Dining/Personal Auto/Truck Sales & Service Parking Structures & Carports	ling Pern 05/18 (p Pernits 43 13 3 1 6 52 6 131 Pernits 1 1 1 1 2	\$1,156,809,728 mit Summary ermits over \$5,00 Value \$11,541,790 \$52,050 \$34,411 \$215,000 \$5,200,000 \$114,652 \$999,511 \$118,609 \$18,296,024 Value \$40,000 \$561,089 \$793,000 \$176,500	3,661 Units 43 0 0 2 82 0 0 0 127 Units 0 0 0 0 100 0	42 Dailey Construction 43 Skogen Construction 43 Rogen Construction 44 Ronning Companies 45 Nesland Construction 46 Howie Construction 47 Chad Zandstra 48 Elite Custom Homes 49 Stecor Initiatives LLC 50 Diversified Const 51 Mehihaff Construction 53 The Carpenter Co Inc 54 Ronning Enterprises 55 Jeren Homes Inc South Dai Garage and Carp Year-to-Date 11 Builder 1 Mills Const 2 Enclave 3 American Builders 4 Select Construction	4 1 6 3 6 6 8 7 4 5 7 4 6 4 kota ort Bu 2/05/20 ermits 1 14 14 3	\$1,387,206 \$1,380,000 \$1,350,000 \$1,348,200 \$1,348,200 \$1,348,118 \$1,338,959 \$1,313,317 \$1,311,052 \$1,211,052 \$1,231,052 \$1,236,150 \$1,227,380 \$1,218,266 \$1,203,273 \$1,268,552 \$1,230,273 \$1,218,266 \$1,203,273 \$1,218,266 \$1,203,273 \$1,218,266 \$1,203,273 \$1,218,266 \$1,203,273 \$1,218,266 \$1,203,273 \$1,218,266 \$1,203,273 \$1,218,266 \$1,203,273 \$1,218,266 \$1,203,273 \$1,218,266 \$1,203,273 \$1,218,266 \$1,203,273 \$1,218,266 \$1,203,273 \$1,218,266 \$1,203,273 \$1,218,266 \$1,203,273 \$1,218,266 \$1,203,273 \$1,218,266 \$1,203,273 \$1,218,266	Year-to-Date Builder 1 Layton/Gustafson, A 2 Henry Carison Co 3 McGough Const 4 Lloyd Const 5 Scull Construction 6 Golden Rule Const 7 Clayco 8 Consolidated Const 9 Journey Group Co 10 RCS Construction 11 Journey Group 12 Gil Haugan Const 13 Seco Construction 14 Gustafson Builders 15 POET Design & 16 Reynolds Const 17 Flegen Construction 18 Peska Const 19 Clark Drew Const 20 Lloyd Const & South E	12/05/20 Permits 2 19 2 4 30 8 2 4 11 9 11 8 1 13 3 3 2 3 6 5 4 Dakota	018 V \$93.675, \$39,314, \$32,052, \$26,728, \$21,884, \$15,793, \$15,566, \$13,065, \$11,025, \$11,025, \$11,025, \$7,643, \$7,503, \$7,503, \$7,503, \$7,397, \$7,205, \$6,688, \$6,415, \$6,264,
South Dakota Build Week 49 - 11/29/18 to 12/ Residential Single Family Homes Demolition Footing & Foundation Duplexes & Twin Homes Apartments & Condos Other Residential Structures Garages & Carports Res Rmdl, Addn, Int Fin Reroof Residential Total Residential Const Commercial Footing & Foundation Retail/Whsl/Dining/Personal Auto/Truck Sales & Service Parking Structures & Carports Indus-Manuf, Whse-Shops,	ling Perr 05/18 (p Pemits 43 13 3 1 4 6 52 6 131 Pemits 1 1 1	\$1,156,809,728 mit Summary ermits over \$5,00 \$11,541,790 \$52,050 \$34,411 \$215,000 \$5,200,000 \$114,652 \$999,511 \$118,609 \$18,296,024 Value \$400,000 \$561,089 \$793,000 \$176,500 \$2,375,000	3,661 Units 43 0 2 82 0 0 0 127 Units 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	42 Dalley Construction 43 Skogen Construction 44 Ronning Companies 45 Nesland Construction 46 Howle Construction 47 Chad Zandstra 48 Elite Custom Homes 49 Stecor Initiatives LLC 50 Diversified Const 51 Mehihaff Construction 52 Boom Construction 53 The Carpenter Co Inc 54 Ronning Enterprises 55 Jeren Homes Inc South Dal Garage and Carp Year-Io-Dale 1: Builder 1 Mills Const 2 Enclave 3 American Builders 4 Select Construction 5 Morton Buildings Inc	4 1 6 3 6 6 8 7 4 5 7 4 6 4 kota ort Bu 2/05/20 2/05/20 2 mits 1 14	\$1,387,206 \$1,380,000 \$1,348,200 \$1,348,200 \$1,348,118 \$1,338,959 \$1,313,317 \$1,311,052 \$1,310,446 \$1,295,000 \$1,288,562 \$1,236,150 \$1,227,380 \$1,218,256 \$1,203,273	Year-to-Date Builder 1 Laylon/Gustafson, A 2 Henry Carison Co 3 McGough Const 4 Lloyd Const 5 Scull Construction 6 Golden Rule Const 7 Clayco 8 Consolidated Const 9 Journey Group Co 10 RCS Construction 11 Journey Group 12 Gil Haugan Const 13 Seco Construction 14 Gustafson Builders 15 POET Design & 16 Reynolds Const 17 Fiegen Construction 18 Peska Const 19 Clark Drew Const 20 Lloyd Const & South L Owner-B	12/05/20 Permits 2 19 2 4 30 8 2 4 11 9 11 8 1 13 3 3 2 3 6 5 4 Dakota	018 V \$93,675, \$39,314, \$32,052, \$26,728, \$22,851, \$21,884, \$15,793, \$15,566, \$11,025, \$10,191, \$8,086, \$7,643, \$7,503, \$7,7205, \$6,688, \$6,415, \$6,264, \$5,900,
South Dakota Build Week 49 - 11/29/18 to 12/ Residential Single Family Homes Demolition Footing & Foundation Duplexes & Twin Homes Apartments & Condos Other Residential Structures Garages & Carports Res Rmdl, Addn, Int Fin Reroof Residential Total Residential Const Commercial Footing & Foundation Retail/Whsi/Dining/Personal Auto/Truck Sales & Service Parking Structures & Carports Indus-Manuf, Whse-Shops, Hospitals & Other Institutions	ling Pern 05/18 (p Permits 43 13 3 1 3 4 6 52 6 131 Permits 1 1 2 2 2	\$1,156,809,728 mit Summary ermits over \$5,00 Value \$11,541,700 \$52,050 \$34,411 \$215,000 \$5,200,000 \$114,652 \$999,511 \$118,609 \$18,296,024 Value \$400,000 \$561,089 \$793,000 \$176,500 \$2,375,000 \$344,403	3,661 Units 43 0 2 82 0 0 0 0 127 Units 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	42 Dailey Construction 43 Skogen Construction 43 Rogen Construction 44 Ronning Companies 45 Nesland Construction 46 Howie Construction 47 Chad Zandstra 48 Elite Custom Homes 49 Stecor Initiatives LLC 50 Diversified Const 51 Mehihaff Construction 53 The Carpenter Co Inc 54 Ronning Enterprises 55 Jeren Homes Inc South Dai Garage and Carp Year-to-Date 11 Builder 1 Mills Const 2 Enclave 3 American Builders 4 Select Construction	4 1 1 6 3 3 6 6 8 8 7 4 5 5 7 4 4 6 4 4 4 5 5 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$1,387,206 \$1,380,000 \$1,348,200 \$1,348,118 \$1,338,959 \$1,313,317 \$1,311,052 \$1,310,446 \$1,295,000 \$1,268,562 \$1,203,173 \$1,227,380 \$1,227,380 \$1,227,380 \$1,227,380 \$1,227,380 \$1,227,380 \$1,237,380	Year-to-Date Builder 1 Layton/Gustafson, A 2 Henry Carlson Co 3 McGough Const 4 Lloyd Const 5 Scull Construction 6 Golden Rule Const 7 Clayco 8 Consolidated Const 9 Journey Group Co 10 RCS Construction 11 Journey Group 12 Gil Haugan Const 13 Seco Construction 14 Gustafson Builders 15 POET Design & 16 Reynolds Const 17 Flegen Construction 18 Peska Const 19 Clark Drew Const 20 Lloyd Const & South L Owner-B Year-to-Date	12/05/20 Permits 2 19 2 4 30 8 2 4 11 11 8 11 13 3 3 2 3 6 5 4 Dakkota sullders 12/05/20	018 V \$93,675, \$39,314, \$32,052, \$26,728, \$22,851, \$21,884, \$15,793, \$15,566, \$13,065, \$11,025, \$11,025, \$11,025, \$10,191, \$6,086, \$7,643, \$7,503, \$7,503, \$7,503, \$6,688, \$6,264, \$5,900,
South Dakota Build Week 49 - 11/29/18 to 12/ Residential Single Family Homes Demolition Footing & Foundation Duplexes & Twin Homes Apartments & Condos Other Residential Structures Garages & Carports Res Rmdi, Addn, Int Fin Resroof Residential Total Residential Total Residential Commercial Footing & Foundation Retail/Whst/Dining/Personal Auto/Truck Sales & Service Parking Structures & Carports Indus-Manuf, Whse-Shops, Hospitals & Other Institutions Churches & Other Institutions	ling Perr 05/18 (p Permits 43 13 3 14 6 6 52 6 131 Permits 1 1 1 1 2 2 2 2 1 1	\$1,156,809,728 mit Summary ermits over \$5,00 Value \$11,541,790 \$52,050 \$52,050 \$5,200,000 \$114,652 \$999,511 \$118,609 \$18,296,024 Value \$400,000 \$61,899 \$793,000 \$176,500 \$2,375,000 \$844,403 \$900,000	3,661 Units 43 0 0 2 82 0 0 0 127 Units 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	42 Dalley Construction 43 Skogen Construction 44 Ronning Companies 45 Nesland Construction 46 Howle Construction 47 Chad Zandstra 48 Eilte Custom Homes 49 Stecor Initiatives LLC 50 Diversified Construction 52 Boom Construction 53 The Carpenter Co Inc 54 Ronning Enterprises 55 Jeren Homes Inc South Dal Garage and Carp Year-to-Date 1/2 Builder Pe 1 Mills Const 2 Enclave 3 American Builders 4 Select Construction 5 Monton Buildings Inc 6 LC Enterprises 2	4 11 6 3 3 6 6 6 8 8 7 4 4 5 7 4 6 4 4 Kota 14 14 14 14 3 2 1	\$1,387,206 \$1,380,000 \$1,348,200 \$1,348,200 \$1,348,200 \$1,348,201 \$1,313,317 \$1,311,052 \$1,313,317 \$1,311,052 \$1,295,000 \$1,268,565 \$1,227,380 \$1,218,266 \$1,203,273 \$18 Value \$899,000 \$670,633 \$300,878 \$248,000 \$27,350 \$100,000	Year-to-Date Builder 1 Laylon/Gustafson, A 2 Henry Carlson Co 3 McGough Const 4 Lloyd Const 5 Scull Construction 6 Golden Rule Const 7 Clayco 8 Consolidated Const 9 Journey Group Co 10 RCS Construction 11 Journey Group 12 Gil Haugan Const 13 Seco Construction 14 Gustafson Builders 15 POET Design & 16 Reynolds Const 17 Fiegen Construction 18 Pesha Const 19 Clark Drew Const 20 Lloyd Const & South L Owner-B Year-to-Date Construction Type	12/05/20 Permits 2 19 2 4 30 8 2 4 11 9 11 8 11 13 3 3 2 3 6 5 4 Dakota suilders 12/05/20 Permits	018 V \$93,675, \$39,314, \$32,052, \$26,728, \$22,851, \$21,884, \$15,793, \$15,566, \$11,025, \$11,025, \$10,191, \$8,086, \$7,643, \$7,50
South Dakota Build Week 49 - 11/29/18 to 12/ Residential Single Family Homes Demolition Footing & Foundation Duptexes & Twin Homes Apartments & Condos Other Residential Structures Garages & Carports Res Rmdl, Addn, Int Fin Reroof Residential Total Residential Const Commercial Footing & Foundation Retail/Wnsl/Dining/Personal Auto/Truck Sales & Service Parking Structures & Carports Indus-Manuf, Whse-Shops, Hospitals & Other Institutions Churches & Other Religious Utilities (gas elect wfr swr)	ling Perr 05/18 (p Pemits 43 13 3 1 4 6 6 52 6 131 Pemits 1 1 1 2 2 2 2 1 1 1	\$1,156,809,728 mit Summary ermits over \$5,00 Value \$11,541,790 \$52,050 \$34,411 \$215,000 \$5,20,000 \$114,652 \$999,511 \$118,699 \$18,296,024 Value \$400,000 \$561,089 \$793,000 \$176,500 \$23,375,000 \$344,403 \$900,000 \$122,600	3,661 Units 43 0 0 2 82 0 0 0 0 127 Units 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	42 Dailey Construction 43 Skogen Construction 44 Ronning Companies 45 Nesiand Construction 46 Howie Construction 47 Chad Zandstra 48 Eilte Custom Homes 49 Stecor Initiatives LLC 50 Diversified Const 51 Mehihaff Construction 52 Boom Construction 53 The Carpenter Co Inc 54 Ronning Enterprises 55 Jeren Homes Inc South Dai Garage and Carp Year-lo-Date 1; Builder 1 Millis Const 2 Enclave 3 American Builders 4 Select Construction 5 Moton Buildings Inc 6 LC Enterprises 2 7 Build Rite Corrst Co 8 Kokinos 9 Quinns Building 9 Quinns Building	4 11 6 3 6 6 8 8 7 4 4 5 7 4 4 6 6 4 kota 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$1,387,206 \$1,380,000 \$1,348,200 \$1,348,200 \$1,348,201 \$1,348,201 \$1,343,347 \$1,311,052 \$1,310,446 \$1,295,000 \$1,268,562 \$1,236,150 \$1,227,380 \$1,218,266 \$1,203,273 \$1,268,562 \$1,230,273 \$1,248,266 \$1,203,273 \$1,248,266 \$1,203,273 \$1,248,266 \$1,203,273 \$1,248,266 \$1,203,273 \$1,248,266 \$1,203,273 \$1,248,266 \$1,203,273 \$1,248,266 \$1,203,273 \$1,248,266 \$1,248,266 \$1,248,273	Year-to-Date Builder 1 Layton/Gustafson, A 2 Henry Carlson Co 3 McGough Const 4 Lloyd Const 5 Scull Construction 6 Golden Rule Const 7 Clayco 8 Consolidated Const 9 Journey Group Co 10 RCS Construction 11 Journey Group 12 Gil Haugan Const 13 Seco Construction 14 Gustafson Builders 15 POET Design & 16 Reynolds Const 17 Fiegen Construction 18 Peska Const 19 Clark Drew Const 20 Lloyd Const 20 Lloyd Const 20 Lloyd Const Construction Type 1 Single Family	12/05/20 Permits 2 19 2 4 30 8 2 4 11 11 8 11 13 3 3 2 3 6 5 4 Dakkota sullders 12/05/20	018 V \$93,675, \$39,314, \$32,052, \$26,728, \$22,851, \$21,884, \$15,793, \$15,566, \$11,025, \$11,025, \$11,025, \$10,191, \$0,966, \$7,643, \$7,503, \$7,5
South Dakota Build Week 49 - 11/29/18 to 12/ Residential Single Family Homes Demolition Duplexes & Twin Homes Apartments & Condos Other Residential Structures Garages & Carports Res Rmdl, Addn, Int Fin Reroof Residential Total Residential Total Residential Footing & Foundation Retail/Whsi/Dining/Personal Auto/Truck Sales & Service Parking Structures & Carports Indus-Manuf, Whse-Shops, Hospitals & Other Institutions Churches & Other Religious Utilities (gas elect wtr swr) Agricultural Buildings & Sheds	ling Perri 05/18 (p Permits 43 3 13 3 4 4 6 52 6 131 Permits 1 1 2 2 2 1 1 1 2	\$1,156,809,728 mit Summary ermits over \$5,00 Value \$11,541,790 \$52,050 \$34,411 \$215,000 \$114,652 \$999,511 \$118,609 \$18,296,024 Value \$400,000 \$561,089 \$793,000 \$176,500 \$2,375,000 \$12,2600 \$11,400	3,661 00 01 02 03 04 04 04 05 05 05 05 05	42 Dalley Construction 43 Skogen Construction 43 Skogen Construction 44 Ronning Companies 45 Nesland Construction 46 Howie Construction 47 Chad Zandstra 48 Eilite Custom Homes 49 Stecor Initiatives LLC 50 Diversified Const 51 Mehlhaff Construction 52 Boom Construction 53 The Carpenter Co Inc 54 Ronning Enterprises 55 Jeren Homes Inc South Dal Garage and Carp Year-to-Date 12 Builder 1 Mills Const 2 Enclave 3 American Builders 4 Select Construction 5 Motion Buildings Inc 6 LC Enterprises 2 7 Build Rite Const	4 1 1 6 3 3 6 6 6 8 7 4 4 5 5 7 7 4 4 6 6 4 4 4 8 8 8 8 8 8 8 8 8 8 8 8 8	\$1,387,206 \$1,380,000 \$1,348,200 \$1,348,200 \$1,348,118 \$1,338,959 \$1,313,317 \$1,311,052 \$1,310,446 \$1,226,000 \$1,228,562 \$1,236,150 \$1,227,380 \$1,218,256 \$1,230,273 \$1,267,053 \$1,27,380 \$1,280,000 \$670,633 \$300,878 \$248,000 \$277,350 \$190,000 \$170,000 \$155,000 \$155,000 \$155,000	Year-to-Date Builder 1 Laylor/Gustafson, A 2 Henry Carlson Co 3 McGough Const 4 Lloyd Const 5 Scull Construction 6 Golden Rule Const 7 Clayco 8 Consolidated Const 9 Journey Group Co 10 RCS Construction 11 Journey Group 12 Gil Haugan Const 13 Seco Construction 14 Gustafson Builders 15 POET Design & 16 Reynolds Const 17 Fiegen Construction 18 Peska Const 19 Clark Drew Const 20 Lloyd Const & South L Owner-B Year-to-Date Construction Type 1 Single Family 1 Garages & Carports 2	12/05/20 Permits 2 19 2 4 30 8 8 2 4 11 9 11 8 13 3 3 6 5 4 Dakota validers 73 130	018 V \$93,675, \$39,314, \$32,052, \$26,728, \$32,052, \$26,728, \$22,851, \$21,884, \$15,793, \$15,566, \$13,065, \$11,025, \$10,191, \$8,086, \$7,643, \$7,503, \$7,397, \$7,205, \$6,688, \$6,415, \$6,264, \$5,900.
South Dakota Build Week 49 - 11/29/18 to 12/ Residential Single Family Homes Demolition Footing & Foundation Duptexes & Twin Homes Apartments & Condos Other Residential Structures Garages & Carports Res Rmdi, Addn, Int Fin Reroof Residential Total Residential Const Commercial Footing & Foundation Retail/Whsi/Dining/Personal Auto/Truck Sales & Service Parking Structures & Carports Indus-Manuf, Whse-Shops, Hospitals & Other Institutions Churches & Other Religious Utilities (gas elect wtr swr) Agricultural Buildings & Sheds Comm Rmd, Addn, Int Fin	ling Perri 05/18 (p. Perrits 43	\$1,156,809,728 mit Summary ermits over \$5,00 \$11,541,790 \$52,050 \$34,411 \$215,000 \$5,200,000 \$114,652 \$999,511 \$118,609 \$18,296,024 Value \$400,000 \$561,089 \$793,000 \$176,500 \$2,375,000 \$344,403 \$900,000 \$112,660 \$11,400 \$4,013,034	3,661 Units 43 0 0 2 2 0 0 0 127 Units 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	42 Dailey Construction 43 Skogen Construction 44 Ronning Companies 45 Nesiand Construction 46 Howie Construction 47 Chad Zandstra 48 Eilte Custom Homes 49 Stecor Initiatives LLC 50 Diversified Const 51 Mehihaff Construction 52 Boom Construction 53 The Carpenter Co Inc 54 Ronning Enterprises 55 Jeren Homes Inc South Dai Garage and Carp Year-lo-Date 1; Builder 1 Millis Const 2 Enclave 3 American Builders 4 Select Construction 5 Moton Buildings Inc 6 LC Enterprises 2 7 Build Rite Corrst Co 8 Kokinos 9 Quinns Building 9 Quinns Building	4 11 6 3 6 6 8 7 4 5 7 4 6 4 kota 1 14 3 2 1 1 1 1 1 1 1	\$1,387,206 \$1,380,000 \$1,348,200 \$1,348,200 \$1,348,201 \$1,348,201 \$1,343,347 \$1,311,052 \$1,310,446 \$1,295,000 \$1,268,562 \$1,236,150 \$1,227,380 \$1,218,266 \$1,203,273 \$1,268,562 \$1,230,273 \$1,248,266 \$1,203,273 \$1,248,266 \$1,203,273 \$1,248,266 \$1,203,273 \$1,248,266 \$1,203,273 \$1,248,266 \$1,203,273 \$1,248,266 \$1,203,273 \$1,248,266 \$1,203,273 \$1,248,266 \$1,248,266 \$1,248,273	Year-to-Date Builder 1 Layton/Gustafson, A 2 Henry Carlson Co 3 McGough Const 4 Lloyd Const 5 Scull Construction 6 Golden Rule Const 7 Clayco 8 Consolidated Const 9 Journey Group Co 10 RCS Construction 11 Journey Group 12 Gil Haugan Const 13 Seco Construction 14 Gustafson Builders 15 POET Design & 16 Reynolds Const 17 Fiegen Construction 18 Peska Const 19 Clark Drew Const 20 Lloyd Const 20 Lloyd Const 20 Lloyd Const Construction Type 1 Single Family	12/05/20 Permits 2 19 2 4 30 8 2 4 11 9 11 8 1 13 3 32 3 6 5 4 Dakota suilders 12/05/20	018 V \$93,675, \$39,314, \$32,052, \$26,728, \$22,851, \$21,884, \$15,793, \$15,566, \$11,025, \$10,191, \$8,086, \$7,643, \$7,503
South Dakota Build Week 49 - 11/29/18 to 12/ Residential Single Family Homes Demolition Duplexes & Twin Homes Apartments & Condos Other Residential Structures Garages & Carports Res Rmdl, Addn, Int Fin Reroof Residential Total Residential Total Residential Footing & Foundation Retail/Whsi/Dining/Personal Auto/Truck Sales & Service Parking Structures & Carports Indus-Manuf, Whse-Shops, Hospitals & Other Institutions Churches & Other Religious Utilities (gas elect wtr swr) Agricultural Buildings & Sheds	ling Perri 05/18 (p Permits 43 3 13 3 4 4 6 52 6 131 Permits 1 1 2 2 2 1 1 1 2	\$1,156,809,728 mit Summary ermits over \$5,00 Value \$11,541,790 \$52,050 \$34,411 \$215,000 \$114,652 \$999,511 \$118,609 \$18,296,024 Value \$400,000 \$561,089 \$793,000 \$176,500 \$2,375,000 \$12,2600 \$11,400	3,661 Units 43 0 0 2 2 0 0 0 127 Units 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	42 Dailey Construction 43 Skogen Construction 43 Skogen Construction 44 Ronning Companies 45 Nesland Construction 46 Howie Construction 47 Chad Zandstra 48 Eitle Custom Homes 49 Stecor Initiatives LLC 50 Diversified Const 51 Mehihaff Construction 52 Boom Construction 53 The Carpenter Co Inc 54 Ronning Enterprises 55 Jeren Homes Inc South Dai Garage and Carp Year-to-Date 1: Builder 1 Mills Const 2 Enclave 3 American Builders 4 Select Construction 5 Morton Buildings Inc 6 LC Enterprises 2 7 Build Rife Const Co 8 Kokinos 9 Quinns Building 10 Boom Construction 11 Lloyd Const	4 1 1 6 3 3 6 6 8 7 7 4 5 7 7 4 6 4 4 kota u 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$1,387,206 \$1,380,000 \$1,348,200 \$1,348,200 \$1,348,118 \$1,338,959 \$1,313,317 \$1,311,052 \$1,310,446 \$1,226,000 \$1,228,562 \$1,236,150 \$1,227,380 \$1,218,256 \$1,230,273 \$1,267,053 \$1,27,380 \$1,280,000 \$670,633 \$300,878 \$248,000 \$277,350 \$190,000 \$170,000 \$155,000 \$155,000 \$155,000	Year-to-Date Builder 1 Laylon/Gustafson, A 2 Henry Carison Co 3 McGough Const 4 Lloyd Const 5 Scull Construction 6 Golden Rule Const 7 Clayco 8 Consolidated Const 9 Journey Group Co 10 RCS Construction 11 Journey Group 12 Gil Haugan Const 13 Seco Construction 14 Gustafson Builders 15 POET Design & 16 Reynolds Const 17 Fiegen Construction 18 Peska Const 19 Clark Drew Const 20 Lloyd Const & South L Owner-B Year-to-Date Construction Type 1 Single Family 2 Garages & Carports 3 Res Rmd, Addn, Int 4 Commercial	12/05/20 Permits 2 19 2 4 30 8 2 4 11 9 11 8 1 13 3 3 2 3 6 5 4 Dakota 12/05/20 Permits 73 130 564 75	018 V \$93,675, \$99,314, \$20,052, \$26,6728, \$22,952, \$26,728, \$22,851, \$21,884, \$15,793, \$15,566, \$13,065, \$11,025, \$10,191, \$6,086, \$7,643, \$7,503, \$7
South Dakota Build Week 49 - 11/29/18 to 12/ Residential Single Family Homes Demolition Footing & Foundation Duplexes & Twin Homes Apartments & Condos Other Residential Structures Garages & Carports Res Rmdi, Addn, Int Fin Reroof Residential Total Residential Total Residential Commercial Footing & Foundation Retail/Whst/Dining/Personal Auto/Truck Sales & Service Parking Structures & Carports Indus-Manuf, Whse-Shops, Hospitals & Other Institutions Churches & Other Religious Utilities (gas elect wtr swr) Agricultural Buildings & Sheds Comm Rmdi, Addn, Int Fin	ling Perri 05/18 (p. Perrits 43	\$1,156,809,728 mit Summary ermits over \$5,00 \$11,541,790 \$52,050 \$34,411 \$215,000 \$5,200,000 \$114,652 \$999,511 \$118,609 \$18,296,024 Value \$400,000 \$561,089 \$793,000 \$176,500 \$2,375,000 \$344,403 \$900,000 \$112,660 \$11,400 \$4,013,034	3,661 Units 43 0 0 2 82 0 0 0 127 Units 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	42 Dailey Construction 43 Skogen Construction 43 Skogen Construction 44 Ronning Companies 45 Nesland Construction 46 Howie Construction 47 Chad Zandstra 48 Eilite Custom Homes 49 Stecor Initiatives LLC 50 Diversified Const 51 Mehihaff Construction 53 The Carpenter Co Inc 54 Ronning Enterprises 55 Jeren Homes Inc South Dai Garage and Carp Year-to-Date 11 Builder 1 Millis Const 2 Enclave 3 American Builders 4 Select Construction 5 Morton Buildings Inc 6 LC Enterprises 2 7 Build Rite Const Co 8 Kokinos 9 Quinns Building 10 Boom Construction 11 Lloyd Const	4 1 1 6 3 3 6 6 8 8 7 4 5 7 7 4 4 6 4 4 4 6 4 4 1 1 1 1 1 1 1 1 4 4 4 4	\$1,387,206 \$1,380,000 \$1,348,200 \$1,348,200 \$1,348,200 \$1,348,200 \$1,348,200 \$1,348,201 \$1,313,317 \$1,311,052 \$1,310,446 \$1,205,000 \$1,288,562 \$1,203,273 Ilders Ild	Year-to-Date Builder 1 Layton/Gustafson, A 2 Henry Carlson Co 3 McGough Const 4 Lloyd Const 5 Scull Construction 6 Golden Rule Const 9 Journey Group Co 8 Consolidated Const 9 Journey Group Co 10 RCS Construction 11 Journey Group 12 Gil Haugan Const 13 Seco Construction 14 Gustafson Builders 15 POET Design & 16 Reynolds Const 17 Fiegen Construction 18 Peska Const 19 Clark Drew Const 19 Clark Drew Const 20 Lloyd Const & South L Owner-B Year-to-Date Construction Type 1 Single Family 2 Garages & Carports 3 Res Rmdl, Addn, Int 4 Commercial	12/05/20 Permits 2	018 V \$93,675, \$39,314, \$32,052, \$2,6728, \$32,924, \$15,793, \$15,566,\$13,065,\$11,025,\$1
South Dakota Build Week 49 - 11/29/18 to 12/ Residential Single Family Homes Demolition Footing & Foundation Duplexes & Twin Homes Apartments & Condos Other Residential Structures Garages & Carports Res Rmdl, Addn, Int Fin Reroof Residential Total Residential Total Residential Const Commercial Footing & Foundation Retail/Whsi/Dining/Personal Auto/Truck Sales & Service Parking Structures & Carports Indus-Manuf, Whse-Shops, Hospitals & Other Institutions Churches & Other Religious Utilities (gas elect wfr swr) Agricultural Buildings & Sheds Comm Rmdl, Addn, Int Fin Reroof Commercial	ling Perri 05/18 (p Permits 43 3 1 3 4 4 6 52 6 131 Permits 1 1 2 2 2 2 1 1 1 2 2 7 9	\$1,156,809,728 mit Summary ermits over \$5,00 Value \$11,541,790 \$52,050 \$34,411 \$215,000 \$5,200,000 \$114,652 \$999,511 \$118,609 \$18,296,024 Value \$400,000 \$561,899 \$793,000 \$176,500 \$2,375,000 \$12,2600 \$11,400 \$4,013,034 \$635,719 \$10,832,745	3,661 Units 43 0 0 0 2 82 0 0 0 127 Units 0 0 0 0 0 0 110 0 0 0 0 0 0 0 110 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	42 Dalley Construction 43 Skogen Construction 44 Ronning Companies 45 Nesland Construction 46 Howie Construction 47 Chad Zandstra 48 Eilte Custom Homes 49 Stecor Initiatives LLC 50 Diversified Const 51 Mehihaff Construction 52 Boom Construction 53 The Carpenter Co Inc 54 Ronning Enterprises 55 Jeren Homes Inc South Dal Garage and Carp Year-to-Date 1: Builder Pe 1 Mills Const 2 Enclave 3 American Builders 4 Select Construction 5 Morton Buildings Inc 6 LC Enterprises 2 7 Build Rite Const Co 8 Kokinos 9 Quinns Building 10 Boom Construction 11 Lloyd Const	4 1 1 6 3 3 6 6 8 8 7 4 5 5 7 4 6 4 6 4 4 6 4 8 6 4 8 1 1 1 1 1 1 1 1 1 1 1 1 1 4 4 6 6 4 8 3 suilder	\$1,387,206 \$1,380,000 \$1,348,200 \$1,348,200 \$1,348,200 \$1,348,118 \$1,338,959 \$1,313,317 \$1,311,052 \$1,311,052 \$1,295,000 \$1,29	Year-to-Date Builder 1 Laylon/Gustafson, A 2 Henry Carison Co 3 McGough Const 4 Lloyd Const 5 Scull Construction 6 Golden Rule Const 7 Clayco 8 Consolidated Const 9 Journey Group Co 10 RCS Construction 11 Journey Group 12 Gil Haugan Const 13 Seco Construction 14 Gustafson Builders 15 POET Design & 16 Reynolds Const 17 Fiegen Construction 18 Peska Const 19 Clark Drew Const 20 Lloyd Const & South L Owner-B Year-to-Date Construction Type 1 Single Family 2 Garages & Carpop 1 Single Family 2 Garages & Carpop 3 Ress Rand, Addn, Int 4 Commercial	12/05/20 Permits 2 19 2 4 30 8 2 4 11 9 11 8 1 11 33 32 3 6 5 4 Dakota 12/05/20 Permits 73 130 05/64 75 05/40 Tobalota Il Buildet	018 V \$93,675, \$39,314, \$32,052, \$26,728, \$22,851, \$21,884, \$15,793, \$15,566, \$11,025, \$10,191, \$8,086, \$7,643, \$7,503
South Dakota Build Week 49 - 11/29/18 to 12/ Residential Single Family Homes Demolition Footing & Foundation Duplexes & Twin Homes Apartments & Condos Other Residential Structures Garages & Carports Res Rmdi, Addn, Int Fin Residential Total Residential Total Residential Total Residential Commercial Auto/Truck Sales & Service Parking Structures & Carports Indus-Manuf, Whse-Shops, Hospitals & Other Institutions Churches & Other Religious Utilities (gas elect wir swr) Agricultural Buildings & Sheds Comm Rmdi, Addn, Int Fin Reroof Commercial Const	ling Perr 05/18 (p. Permits 43 3 13 3 4 6 52 56 131 Permits 1 1 1 2 2 2 2 1 1 1 2 2 7 9 49	\$1,156,809,728 mit Summary ermits over \$5,00 Value \$11,541,790 \$52,050 \$34,411 \$215,000 \$5,20,000 \$114,652 \$999,511 \$118,699 \$18,296,024 Value \$400,000 \$561,089 \$793,000 \$176,500 \$2,375,000 \$344,403 \$900,000 \$122,600 \$11,400 \$4,013,034 \$635,719	3,661 Units 43 0 0 0 2 82 0 0 0 127 Units 0 0 0 0 0 0 110 0 0 0 0 0 0 0 110 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	42 Dalley Construction 43 Skogen Construction 43 Skogen Construction 44 Ronning Companies 45 Nesland Construction 46 Howie Construction 47 Chad Zandstra 48 Eilte Custom Homes 49 Stecor Initiatives LLC 50 Diversified Const 51 Mehlhaff Construction 52 Boom Construction 53 The Carpenter Co Inc 54 Ronning Enterprises 55 Jeren Homes Inc South Dal Garage and Carp Year-to-Date 12 Builder 1 Mills Const 2 Enclave 3 American Builders 4 Select Construction 5 Morton Buildings Inc 6 LC Enterprises 2 7 Build Rite Const 5 South Dal Garage and Carp 1 Mills Const 2 Enclave 1 Mills Const 2 Enclave 1 American Builders 4 Select Construction 5 Morton Buildings Inc 6 LC Enterprises 2 7 Build Rite Const Co 8 Kökinos 9 Quinns Building 10 Boom Construction 11 Lloyd Const	4 1 1 6 3 3 6 6 8 8 7 7 4 4 6 4 5 7 7 4 4 6 4 4 6 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$1,387,206 \$1,390,000 \$1,348,200 \$1,348,200 \$1,348,200 \$1,348,200 \$1,348,200 \$1,348,200 \$1,348,200 \$1,348,338,959 \$1,311,052 \$1,311,052 \$1,311,052 \$1,311,052 \$1,265,000 \$1,268,562 \$1,295,010 \$1,288,562 \$1,295,010 \$1,288,562 \$1,295,010 \$1,218,256 \$1,203,273	Year-to-Date Builder 1 Layton/Gustafson, A 2 Henry Carlson Co 3 McGough Const 4 Lloyd Const 5 Scull Construction 6 Golden Rule Const 7 Clayco 8 Consolidated Const 9 Journey Group Co 10 RCS Construction 11 Journey Group 12 Gil Haugan Const 13 Seco Construction 14 Gustafson Builders 15 POET Design & 16 Reynolds Const 17 Fiegen Construction 18 Peska Const 19 Clark Drew Const 20 Lloyd Const 20 Lloyd Const 20 Lloyd Const 21 Single Family 2 Garages & Carports 3 Res Rmdi, Addn, Int 4 Commercial Veek 49 - 11/29	12/05/2C Permits 2 2 19 2 2 4 30 8 8 2 4 111 8 1 13 3 3 32 3 6 5 4 4 14 17 9 9 116 17 18 18 17 18 18 18 18 18 18 18 18 18 18 18 18 18	018 V \$93,675, \$39,314, \$32,052, \$26,728, \$22,826,728, \$22,851, \$21,884, \$15,793, \$15,566, \$13,065, \$11,025, \$10,191, \$8,086, \$13,065, \$7,643, \$7,503,
South Dakota Build Week 49 - 11/29/18 to 12/ Residential Single Family Homes Demolition Footing & Foundation Duplexes & Twin Homes Apartments & Condos Other Residential Structures Garages & Carports Res Rmdi, Addn, Int Fin Residential Total Residential Total Residential Total Residential Commercial Auto/Truck Sales & Service Parking Structures & Carports Indus-Manuf, Whse-Shops, Hospitals & Other Institutions Churches & Other Religious Utilities (gas elect wir swr) Agricultural Buildings & Sheds Comm Rmdi, Addn, Int Fin Reroof Commercial Const	ling Perr 05/18 (p. Permits 43 3 13 3 4 6 52 56 131 Permits 1 1 1 2 2 2 2 1 1 1 2 2 7 9 49	\$1,156,809,728 mit Summary ermits over \$5,00 Value \$11,541,790 \$52,050 \$34,411 \$215,000 \$5,200,000 \$114,652 \$999,511 \$118,609 \$18,296,024 Value \$400,000 \$561,899 \$793,000 \$176,500 \$2,375,000 \$12,2600 \$11,400 \$4,013,034 \$635,719 \$10,832,745	3,661 Units 43 0 0 0 2 82 0 0 0 127 Units 0 0 0 0 0 0 110 0 0 0 0 0 0 0 110 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	42 Dailey Construction 43 Skogen Construction 44 Ronning Companies 45 Nesiand Construction 46 Howie Construction 47 Chad Zandstra 48 Eilite Custom Homes 49 Stecor Initiatives LLC 50 Diversified Const 51 Mehthaff Construction 52 Boom Construction 53 The Carpentier Co Inc 54 Ronning Enterprises 55 Jeren Homes Inc South Dai Garage and Carp Year-Io-Date 12 Builder 1 Mills Const 2 Enclave 3 American Builders 4 Select Construction 5 Morton Buildings Inc 6 LC Enterprises 2 7 Build Rite Cornst Co 8 Kokinos 9 Quinns Building 10 Boom Construction 11 Lloyd Const South Dai Residential E Week 49 - 11/29/11 Builder Pet	4 1 1 6 3 3 6 6 8 8 7 4 4 5 7 4 4 6 6 4 4 5 7 1 4 4 6 6 4 4 1 1 1 1 1 1 1 1 1 1 1 4 4 4 4	\$1,387,206 \$1,380,000 \$1,350,000 \$1,348,200 \$1,348,200 \$1,348,201 \$1,348,201 \$1,348,201 \$1,348,201 \$1,348,201 \$1,349,600 \$1,268,562 \$1,203,273 **Iders** **	Year-to-Date Builder 1 Laylorn/Gustafson, A 2 Henry Carlson Co 3 McGough Const 4 Lloyd Const 5 Scull Construction 6 Golden Rule Const 7 Clayco 8 Consolidated Const 9 Journey Group Co 10 RCS Construction 11 Journey Group 12 Gil Haugan Const 13 Seco Construction 14 Gustafson Builders 15 POET Design & 16 Reynolds Const 17 Flegen Construction 18 Peska Const 19 Clark Drew Const 20 Lloyd Const & South L Owner-S 18 Construction 19 Clark Drew Const 20 Lloyd Const & South L Owner-S 3 Res Rmdl, Addn, Int 4 Commercial South L Commercial South L Commercial South I Commercial South I Commercial	12/05/20 Permits 2 19 9 4 4 30 8 8 2 4 11 18 11 13 3 32 3 6 5 4 Dakota ulilders 73 13 15 16 16 16 16 16 16 16 16 16 16 16 16 16	018
South Dakota Build Week 49 - 11/29/18 to 12/ Residential Single Family Homes Demolition Footing & Foundation Duplexes & Twin Homes Apartments & Condos Other Residential Structures Garages & Carports Res Rmdi, Addn, Int Fin Residential Total Residential Total Residential Total Residential Total Residential Autor Truck Sales & Service Parking Structures & Carports Indus-Manuf, Whse-Shops, Hospitals & Other Institutions Churches & Other Religious Utilities (gas elect wir swr) Agricultural Buildings & Sheds Comm Rmdi, Addn, Int Fin Reroof Commercial Total Commercial Const	ling Perr 05/18 (p. Permits 43 3 13 3 4 6 52 56 131 Permits 1 1 1 2 2 2 2 1 1 1 2 2 7 9 49	\$1,156,809,728 mit Summary ermits over \$5,00 Value \$11,541,790 \$52,050 \$34,411 \$215,000 \$5,200,000 \$114,652 \$999,511 \$118,609 \$18,296,024 Value \$400,000 \$561,899 \$793,000 \$176,500 \$2,375,000 \$12,2600 \$11,400 \$4,013,034 \$635,719 \$10,832,745	3,661 Units 43 0 0 0 2 82 0 0 0 127 Units 0 0 0 0 0 0 110 0 0 0 0 0 0 0 110 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	42 Dailey Construction 43 Skogen Construction 43 Skogen Construction 44 Ronning Companies 45 Nesland Construction 46 Howie Construction 47 Chad Zandstra 48 Eilite Custom Homes 49 Stecor Initiatives LLC 50 Diversified Const 51 Mehhaff Construction 52 Boom Construction 53 The Carpenter Co Inc 54 Ronning Enterprises 55 Jeren Homes Inc South Dail Garage and Carp Year-Io-Date 1: Builder Pe 1 Mills Const 2 Enclave 3 American Builders 4 Select Construction 5 Morton Buildings Inc 6 LC Enterprises 2 7 Build Rife Const Co 8 Kokinos 9 Quinns Building 10 Boom Construction 11 Lloyd Const South Dail Residential E Week 49 - 11/29/ti Builder 1 Waldner Const	4 1 1 6 3 3 6 6 8 8 7 7 4 4 5 7 7 4 4 6 4 1 1 1 1 1 1 1 1 1 1 1 1 4 4 kota Suilders 8 to 12 emits 1	\$1,387,206 \$1,380,000 \$1,348,200 \$1,348,200 \$1,348,118 \$1,338,959 \$1,313,317 \$1,311,052 \$1,314,052 \$1,295,000 \$1,295,000 \$1,2	Year-to-Date Builder 1 Layton/Gustafson, A 2 Henry Carlson Co 3 McGough Const 4 Lloyd Const 5 Scull Construction 6 Golden Rule Const 7 Clayco 8 Consolidated Const 9 Journey Group Co 10 RCS Construction 11 Journey Group 12 Gil Haugan Const 13 Seco Construction 14 Gustafson Builders 15 POET Design & 16 Reynolds Const 17 Flegen Construction 18 Peska Const 19 Clark Drew Const 20 Lloyd Const & South L Owner-B Year-to-Date Construction Type 1 Single Family 2 Garages & Carports 3 Res Rmdi, Addn, Int 4 Commercial Week 49 - 11/29, Builder 1 Scull Construction	12/05/20 Permits 2 19 2 4 30 8 8 2 4 11 11 13 3 3 2 6 5 4 11 13 3 3 6 5 12/05/20 Permits 73 130 364 75 Dakota It Builder 4 4 4	018 V \$93,675, \$39,314, \$32,052, \$26,728, \$21,884, \$15,793, \$15,566, \$11,025, \$10,191, \$8,086, \$7,643, \$7,643, \$7,503, \$7,503, \$7,503, \$7,503, \$7,503, \$7,503, \$7,903,
South Dakota Build Week 49 - 11/29/18 to 12/ Residential Single Family Homes Demolition Footing & Foundation Duplexes & Twin Homes Apartments & Condos Other Residential Structures Garages & Carports Res Rmdi, Addn, Int Fin Residential Total Residential Total Residential Total Residential Commercial Auto/Truck Sales & Service Parking Structures & Carports Indus-Manuf, Whse-Shops, Hospitals & Other Institutions Churches & Other Religious Utilities (gas elect wir swr) Agricultural Buildings & Sheds Comm Rmdi, Addn, Int Fin Reroof Commercial Const	ling Perr 05/18 (p. Permits 43 3 13 3 4 6 52 56 131 Permits 1 1 1 2 2 2 2 1 1 1 2 2 7 9 49	\$1,156,809,728 mit Summary ermits over \$5,00 Value \$11,541,790 \$52,050 \$34,411 \$215,000 \$5,200,000 \$114,652 \$999,511 \$118,609 \$18,296,024 Value \$400,000 \$561,899 \$793,000 \$176,500 \$2,375,000 \$12,2600 \$11,400 \$4,013,034 \$635,719 \$10,832,745	3,661 Units 43 0 0 0 2 82 0 0 0 127 Units 0 0 0 0 0 0 110 0 0 0 0 0 0 0 110 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	42 Dailey Construction 43 Skogen Construction 44 Ronning Companies 45 Nesland Construction 46 Howie Construction 47 Chad Zandstra 48 Eilite Custom Homes 49 Stecor Initiatives LLC 50 Diversified Const 51 Mehthaff Construction 53 The Carpenter Co Inc 54 Ronning Enterprises 55 Jeren Homes Inc South Dai Garage and Carp Year-to-Date 12 Builder 1 Mills Const 2 Enclave 3 American Builders 4 Select Construction 55 Morton Buildings Inc 6 LC Enterprises 2 7 Build Rite Const Co 8 Kokinos 9 Quinns Building 10 Boom Construction 11 Lloyd Const South Dai Residential E Week 49 - 11/29/13 Builder 1 Waldner Const 2 Dennis Arnold	4 1 1 6 3 3 6 6 6 8 7 4 4 5 7 7 4 6 6 4 4 5 7 7 4 1 1 1 1 1 1 1 1 1 1 1 1 1 4 4 4 4	\$1,387,206 \$1,380,000 \$1,348,200 \$1,348,200 \$1,348,200 \$1,348,200 \$1,348,200 \$1,348,200 \$1,348,201 \$1,311,052 \$1,311,052 \$1,311,052 \$1,311,052 \$1,212,7,380 \$1,227,380 \$1,218,266 \$1,203,273 ilders	Year-to-Date Builder 1 Laylon/Gustafson, A 2 Henry Carlson Co 3 McGough Const 4 Lloyd Const 5 Scull Construction 6 Golden Rule Const 7 Clayco 8 Consolidated Const 9 Journey Group Co 10 RCS Construction 11 Journey Group 12 Gil Haugan Const 13 Seco Construction 14 Gustafson Builders 15 POET Design & 16 Reynolds Const 17 Fiegen Construction 18 Peska Const 19 Clark Drew Const 20 Lloyd Const &	12/05/21 Permits 2 19 2 4 30 8 2 4 11 11 18 11 13 3 3 2 3 3 6 5 4 4 11 10 Dakota 11 10 Dakota 11 Builders ² 12 Dakota 11	\$93,675, \$39,314, \$20,528, \$20,851, \$21,824, \$15,793, \$15,566, \$13,065, \$7,643, \$7,503, \$7,7205, \$6,688, \$6,415, \$6,264, \$5,900.
South Dakota Build Week 49 - 11/29/18 to 12/ Residential Single Family Homes Demolition Footing & Foundation Duplexes & Twin Homes Apartments & Condos Other Residential Structures Garages & Carports Res Rmdi, Addn, Int Fin Residential Total Residential Total Residential Total Residential Total Residential Autor Truck Sales & Service Parking Structures & Carports Indus-Manuf, Whse-Shops, Hospitals & Other Institutions Churches & Other Religious Utilities (gas elect wir swr) Agricultural Buildings & Sheds Comm Rmdi, Addn, Int Fin Reroof Commercial Total Commercial Const	ling Perr 05/18 (p. Permits 43 3 13 3 4 6 52 56 131 Permits 1 1 1 2 2 2 2 1 1 1 2 2 7 9 49	\$1,156,809,728 mit Summary ermits over \$5,00 Value \$11,541,790 \$52,050 \$34,411 \$215,000 \$5,200,000 \$114,652 \$999,511 \$118,609 \$18,296,024 Value \$400,000 \$561,899 \$793,000 \$176,500 \$2,375,000 \$12,2600 \$11,400 \$4,013,034 \$635,719 \$10,832,745	3,661 Units 43 0 0 0 2 82 0 0 0 127 Units 0 0 0 0 0 0 110 0 0 0 0 0 0 0 110 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	42 Dailey Construction 43 Skogen Construction 43 Skogen Construction 44 Ronning Companies 45 Nesland Construction 46 Howie Construction 47 Chad Zandstra 48 Eilte Custom Homes 49 Stecor Initiatives LLC 50 Diversified Const 51 Mehihaff Construction 52 Boom Construction 53 The Carpenter Co Inc 54 Ronning Enterprises 55 Jeren Homes Inc South Dai Garage and Carp Year-to-Daile 1/2 Builder Pe 1 Mills Const 2 Enclave 3 American Builders 4 Select Construction 5 Morton Buildings Inc 6 LC Enterprises 7 Build Rie Const Co 8 Kokinos 9 Quinns Building 10 Boom Construction 11 Lloyd Const Week 49 - 11/29/1 Builder 1 Waldner Const 2 Dennis Arnold 3 Select Builders Inc	4 1 1 6 3 3 6 6 6 8 7 4 4 5 7 7 4 6 4 4 8 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$1,387,206 \$1,380,000 \$1,348,200 \$1,348,200 \$1,348,200 \$1,348,118 \$1,338,959 \$1,313,317 \$1,311,052 \$1,311,052 \$1,310,446 \$1,295,000 \$1,295,000 \$1,296,562 \$1,236,150 \$1,227,380 \$1,218,256 \$1,227,380 \$1,218,256 \$1,203,273 Idders Iders Value \$899,000 \$670,633 \$300,878 \$248,000 \$170,000 \$170,000 \$150,000 \$149,600 \$4,400,000 \$1,000,000 \$1,000,000 \$800,000 \$800,000 \$800,000 \$800,000 \$800,000 \$100,000 \$800,000 \$800,000 \$800,000 \$800,000 \$800,000 \$100,000 \$800,000 \$800,000 \$800,000 \$800,000 \$800,000 \$800,000 \$800,000 \$800,000 \$800,000 \$800,000 \$800,000 \$800,000	Year-to-Date Builder 1 Laylon/Gustafson, A 2 Henry Carison Co 3 McGough Const 4 Lloyd Const 5 Scull Construction 6 Golden Rule Const 7 Clayco 8 Consolidated Const 9 Journey Group Co 10 RCS Construction 11 Journey Group 12 Gil Haugan Const 13 Seco Construction 14 Gustafson Builders 15 POET Design & 16 Reynolds Const 17 Fiegen Construction 18 Peska Const 19 Clark Drew Const 20 Lloyd Const & South L Owner-B Year-to-Date Construction 19 Single Family 2 Garages & Carport 3 Res Rand, Addn, Int 4 Commercial Week 49 - 11/29 Builder 1 Scull Construction 2 Beck & Hofer Const	12/05/20 Permits 2 19 2 19 2 4 30 8 8 2 4 11 9 11 13 3 3 3 6 5 4 11 2 Permits 7 130 3 12/05/20 16 18 18 11 12 12 13 13 13 13 13 13 13 13 13 13 13 13 13	018 V \$93,675, \$39,314, \$32,052, \$26,728, \$22,951, \$21,884, \$15,793, \$15,596, \$11,025, \$10,191, \$8,086, \$7,643, \$7,503, \$7,397, \$7,205, \$6,688, \$6,415, \$6,688, \$6,415, \$6,264, \$5,900, \$13,192, \$3,267, \$8,316, \$3,962, \$15,000, \$13,192, \$3,267, \$3,267, \$3,267, \$3,267, \$3,267, \$3,267, \$3,267, \$3,267, \$3,267, \$3,267, \$3,267, \$3,267, \$3,267, \$3,267, \$3,267, \$3,267, \$3,267, \$3,272, \$1,128, \$3,357, \$2,264, \$3,272, \$1,128, \$3,357, \$1,128, \$3,357, \$1,128, \$1,
South Dakota Build Week 49 - 11/29/18 to 12/ Residential Single Family Homes Demolition Footing & Foundation Duplexes & Twin Homes Apartments & Condos Other Residential Structures Garages & Carports Res Rmdi, Addn, Int Fin Residential Total Residential Total Residential Total Residential Total Residential Autor Truck Sales & Service Parking Structures & Carports Indus-Manuf, Whse-Shops, Hospitals & Other Institutions Churches & Other Religious Utilities (gas elect wir swr) Agricultural Buildings & Sheds Comm Rmdi, Addn, Int Fin Reroof Commercial Total Commercial Const	ling Perr 05/18 (p. Permits 43 3 13 3 4 6 52 56 131 Permits 1 1 1 2 2 2 2 1 1 1 2 2 7 9 49	\$1,156,809,728 mit Summary ermits over \$5,00 Value \$11,541,790 \$52,050 \$34,411 \$215,000 \$5,200,000 \$114,652 \$999,511 \$118,609 \$18,296,024 Value \$400,000 \$561,899 \$793,000 \$176,500 \$2,375,000 \$12,2600 \$11,400 \$4,013,034 \$635,719 \$10,832,745	3,661 Units 43 0 0 0 2 82 0 0 0 127 Units 0 0 0 0 0 0 110 0 0 0 0 0 0 0 110 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	42 Dailey Construction 43 Skogen Construction 43 Skogen Construction 44 Ronning Companies 45 Nesland Construction 46 Howie Construction 47 Chad Zandstra 48 Eilite Custom Homes 49 Stecor Initiatives LLC 50 Diversified Const 51 Mehthaff Construction 52 Boom Construction 53 The Carpenter Co Inc 54 Ronning Enterprises 55 Jeren Homes Inc South Dai Garage and Carp Year-to-Date 12 Builder 1 Mills Const 2 Enclave 3 American Builders 3 American Builders 4 Select Construction 5 Morton Buildings Inc 6 LC Enterprises 2 7 Build Rite Const Co 8 Kokinos 9 Quinns Building 10 Boom Construction 11 Lloyd Const South Dai Residential E Week 49 - 11/29/11 Builder 1 Waldner Const 2 Dennis Arnold 3 Select Builders Inc 4 Nesland	4 1 1 6 3 6 6 8 8 7 4 4 5 7 7 4 6 4 4 4 6 6 8 8 8 to 12 9 milts 1 1 1 1 1 1 1 1 1 1 1 1 4 4 6 6 6 8 8 to 12 9 milts 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$1,387,206 \$1,380,000 \$1,348,200 \$1,348,200 \$1,348,200 \$1,348,200 \$1,348,200 \$1,348,200 \$1,348,201 \$1,311,052 \$1,311,052 \$1,311,052 \$1,311,052 \$1,213,500 \$1,227,380 \$1,218,266 \$1,203,273 Ilders 18 Value \$8,899,000 \$670,633 \$300,878 \$248,000 \$670,633 \$300,878 \$248,000 \$170,000 \$170,000 \$150,000 \$150,000 \$149,600 \$1,000,000 \$149,600 \$1,000,000 \$1,0	Year-to-Date Builder 1 Layton/Gustafson, A 2 Henry Carlson Co 3 McGough Const 4 Lloyd Const 5 Scull Construction 6 Golden Rule Const 7 Clayco 8 Consolidated Const 9 Journey Group 10 RCS Construction 11 Journey Group 12 Gil Haugan Const 13 Seco Construction 14 Gustafson Builders 15 POET Design & 16 Reynolds Const 17 Fiegen Construction 18 Peska Const 19 Clark Drew Const 20 Lloyd Const & South C Owner-B Year-to-Date Construction Type 1 Single Family 2 Garages & Carports 3 Res Rmdl, Addn, Int 4 Commercial Week 49 - 11/29 Builder 1 Scult Construction 2 Beck & Hofer Const 3 TBD 4 RCS Construction 4 Horst Construction 2 Beck & Hofer Const 3 TBD 4 RCS Construction 4 Construction 5 Responded Construction 5 Responded Construction 6 Responded Construction 7 Responded Construction 7 Responded Construction 8 Responded Construction 9 Responded Co	12/05/2C Permits 2 2 19 2 2 4 30 8 8 2 4 11 1 8 8 1 13 3 3 32 3 6 5 4 4 1 1 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1	018 V \$93,675, \$39,314, \$32,052, \$26,728, \$32,052, \$26,728, \$22,851, \$21,884, \$15,793, \$15,566, \$13,065, \$11,025, \$10,191, \$8,086, \$13,065, \$7,643, \$7,503, \$7,507, \$7,205, \$6,688, \$6,415, \$6,624, \$5,900.
South Dakota Build Week 49 - 11/29/18 to 12/ Residential Single Family Homes Demolition Footing & Foundation Duplexes & Twin Homes Apartments & Condos Other Residential Structures Garages & Carports Res Rmdi, Addn, Int Fin Residential Total Residential Total Residential Total Residential Total Residential Autor Truck Sales & Service Parking Structures & Carports Indus-Manuf, Whse-Shops, Hospitals & Other Institutions Churches & Other Religious Utilities (gas elect wir swr) Agricultural Buildings & Sheds Comm Rmdi, Addn, Int Fin Reroof Commercial Total Commercial Const	ling Perr 05/18 (p. Permits 43 3 13 3 4 6 52 56 131 Permits 1 1 1 2 2 2 2 1 1 1 2 2 7 9 49	\$1,156,809,728 mit Summary ermits over \$5,00 Value \$11,541,790 \$52,050 \$34,411 \$215,000 \$5,200,000 \$114,652 \$999,511 \$118,609 \$18,296,024 Value \$400,000 \$561,899 \$793,000 \$176,500 \$2,375,000 \$12,2600 \$11,400 \$4,013,034 \$635,719 \$10,832,745	3,661 Units 43 0 0 0 2 82 0 0 0 127 Units 0 0 0 0 0 0 110 0 0 0 0 0 0 0 110 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	42 Dalley Construction 43 Skogen Construction 44 Ronning Companies 45 Nesland Construction 46 Howie Construction 47 Chad Zandstra 48 Eilite Custom Homes 49 Stecor Initiatives LLC 50 Diversified Const 51 Mehihaff Construction 52 Boom Construction 53 The Carpenter Co Inc 54 Ronning Enterprises 55 Jeren Homes Inc South Dal Garage and Carp Year-to-Date 1: Builder Pe 1 Mills Const 2 Enclave 3 American Builders 4 Select Construction 5 Morton Buildings Inc 6 LC Enterprises 7 Build Res Const Co 8 Kokinos 9 Quinns Building 10 Boom Construction 11 Lloyd Const South Dal Residential E Week 49 - 11/29/1 Builder Pe 1 Waldner Const 2 Dennis Arnold 3 Select Builders Inc 4 Nesland 5 KN Construction Inc	4 1 1 6 3 3 6 6 6 8 7 4 4 5 5 7 7 4 6 4 4 4 4 4 4 4 4 4 5 1 1 1 1 1 1 1 1 1 1	\$1,387,206 \$1,380,000 \$1,348,200 \$1,348,200 \$1,348,200 \$1,348,118 \$1,338,959 \$1,313,317 \$1,311,052 \$1,311,052 \$1,310,446 \$1,295,000 \$1,296,562 \$1,236,150 \$1,227,380 \$1,218,256 \$1,227,380 \$1,218,256 \$1,203,273 Idders Idlers Value \$899,000 \$670,633 \$300,878 \$248,000 \$670,633 \$300,878 \$248,000 \$170,000 \$150,000 \$149,600 \$1,000,000 \$149,600 \$1,000,000	Year-to-Date Builder 1 Laylorn/Gustafson, A 2 Henry Carison Co 3 McGough Const 4 Lloyd Const 5 Scull Construction 6 Golden Rule Const 7 Clayco 8 Consolidated Const 9 Journey Group Co 10 RCS Construction 11 Journey Group 12 Gil Haugan Const 13 Seco Construction 14 Gustafson Builders 15 POET Design & 16 Reynolds Const 17 Fiegen Construction 18 Peska Const 19 Clark Drew Const 20 Lloyd Const & South L Owner-B Year-to-Date Construction 19 Single Family 2 Garages & Carports 3 Res Rmdl, Addn, Int 4 Commercial Week 49 - 11/29 Builder 1 Scull Construction 2 Beck & Hofer Const 3 TBD 4 RCS Construction 5 RCS Storage LLC	12/05/25/2 Permits 2 19 2 4 30 8 8 2 4 11 9 11 8 1 13 3 3 6 5 4 1 10 20 20 20 20 20 20 20 20 20 20 20 20 20	018 V \$93,675, \$39,314, \$32,052, \$26,728, \$39,314, \$32,052, \$26,728, \$22,851, \$21,884, \$15,793, \$15,566, \$13,065, \$11,025, \$10,191, \$8,086, \$7,643, \$7,503, \$7,397, \$7,205, \$6,688, \$6,415, \$5,900, \$13,192, \$3,267, \$8,316, \$3,962, \$11,128, \$3,962, \$11,128, \$3,272, \$1,128, \$3,373, \$7,397, \$7,205, \$1,128, \$3,267, \$3,362, \$1,128, \$3,362, \$1,128, \$3,373, \$7,39, \$7,93, \$
South Dakota Build Week 49 - 11/29/18 to 12/ Residential Single Family Homes Demolition Footing & Foundation Duplexes & Twin Homes Apartments & Condos Other Residential Structures Garages & Carports Res Rmdi, Addn, Int Fin Residential Total Residential Total Residential Total Residential Total Residential Autor Truck Sales & Service Parking Structures & Carports Indus-Manuf, Whse-Shops, Hospitals & Other Institutions Churches & Other Religious Utilities (gas elect wir swr) Agricultural Buildings & Sheds Comm Rmdi, Addn, Int Fin Reroof Commercial Total Commercial Const	ling Perr 05/18 (p. Permits 43 3 13 3 4 6 52 56 131 Permits 1 1 1 2 2 2 2 1 1 1 2 2 7 9 49	\$1,156,809,728 mit Summary ermits over \$5,00 Value \$11,541,790 \$52,050 \$34,411 \$215,000 \$5,200,000 \$114,652 \$999,511 \$118,609 \$18,296,024 Value \$400,000 \$561,899 \$793,000 \$176,500 \$2,375,000 \$12,2600 \$11,400 \$4,013,034 \$635,719 \$10,832,745	3,661 Units 43 0 0 0 2 82 0 0 0 127 Units 0 0 0 0 0 0 110 0 0 0 0 0 0 0 110 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	42 Dailey Construction 43 Skogen Construction 43 Skogen Construction 44 Ronning Companies 45 Nesland Construction 46 Howie Construction 47 Chad Zandstra 48 Eitie Custom Homes 49 Stecor Initiatives LLC 50 Diversified Const 51 Mehihaff Construction 53 The Campenter Co Inc 54 Ronning Enterprises 55 Jeren Homes Inc South Dai Garage and Carp Year-to-Date 11 Builder 1 Mills Const 2 Enclave 3 American Builders 4 Select Construction 5 Morton Buildings Inc 6 LC Enterprises 2 7 Build Rite Const Co 8 Koklnos 9 Quinns Building 10 Boom Construction 1 Lloyd Const South Dai Residential E Welder 49 - 11/29/11 Builder 1 Waldner Const 2 Dennis Arnold 3 Select Builders Inc 4 Nesland 5 KN Construction Inc 6 Wehde Brothers	4 1 1 6 3 6 6 6 8 8 7 4 5 7 7 4 6 6 4 4 5 7 4 4 6 6 4 4 5 7 4 4 6 6 4 4 6 6 7 8 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$1,387,206 \$1,380,000 \$1,348,200 \$1,348,200 \$1,348,200 \$1,348,200 \$1,348,200 \$1,348,200 \$1,348,200 \$1,348,338,959 \$1,311,317 \$1,311,052 \$1,311,052 \$1,205,000 \$1,268,562 \$1,203,273 \$1,268,562 \$1,203,273 \$1,268,562 \$1,203,273 \$1,268,562 \$1,203,273 \$1,208,273 \$1,208,273 \$1,208,273 \$1,208,273 \$1,208,273 \$1,208,273 \$1,208,273 \$1,208,273 \$1,209,273 \$	Year-to-Date Builder 1 Layton/Gustafson, A 2 Henry Carlson Co 3 McGough Const 4 Lloyd Const 5 Scull Construction 6 Golden Rule Const 7 Clayco 8 Consolidated Const 9 Journey Group Co 10 RCS Construction 11 Journey Group 12 Gil Haugan Const 13 Seco Construction 14 Gustafson Builders 15 POET Design & 16 Reynolds Const 17 Fiegen Construction 18 Peska Const 19 Clark Drew Const 20 Lloyd Const & South L Owner-B Year-to-Date Construction Type 1 Single Family 2 Garages & Carports 3 Res Rmdi, Addn, Int 4 Commercia Week 49 - 11/29 Builder 1 Scull Construction 2 Beck & Hofer Const 3 TBD 4 RCS Construction 5 RCS Storage LLC 6 Lloyd Const & 8 Construction 5 RCS Storage LLC 6 Lloyd Const & 8 Construction 5 RCS Storage LLC 6 Lloyd Const & 8 Construction 5 RCS Storage LLC 6 Lloyd Const & 8 Construction 5 RCS Storage LLC	12/05/2(Permits 2 2 19 2 4 30 0 8 2 4 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	018 V \$93,675, \$39,314, \$32,052, \$26,728, \$22,851, \$21,884, \$15,793, \$15,566, \$13,066, \$13,066, \$13,066, \$14,025, \$10,191, \$8,086, \$14,025, \$10,191, \$8,086, \$15,566,88, \$6,415, \$6,688, \$6,688, \$6,415, \$6,688, \$6,688, \$6,415, \$6,688, \$6,688, \$6,415, \$6,688, \$6,68
South Dakota Build Week 49 - 11/29/18 to 12/ Residential Single Family Homes Demolition Footing & Foundation Duptexes & Twin Homes Apartments & Condos Other Residential Structures Garages & Carports Res Rmdi, Addn, Int Fin Residential Total Residential Total Residential Total Residential Total Residential Auto/Truck Sales & Service Parking Structures & Carports Indus-Manuf, Whse-Shops, Hospitals & Other Institutions Churches & Other Religious Utilities (gas elect wir swr) Agricultural Buildings & Sheds Comm Rmdi, Addn, Int Fin Reroof Commercial Total Commercial Const	ling Perr 05/18 (p. Permits 43 3 13 3 4 6 52 56 131 Permits 1 1 1 2 2 2 2 1 1 1 2 2 7 9 49	\$1,156,809,728 mit Summary ermits over \$5,00 Value \$11,541,790 \$52,050 \$34,411 \$215,000 \$5,200,000 \$114,652 \$999,511 \$118,609 \$18,296,024 Value \$400,000 \$561,899 \$793,000 \$176,500 \$2,375,000 \$12,2600 \$11,400 \$4,013,034 \$635,719 \$10,832,745	3,661 Units 43 0 0 0 2 82 0 0 0 127 Units 0 0 0 0 0 0 110 0 0 0 0 0 0 0 110 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	42 Dailey Construction 43 Skogen Construction 44 Ronning Companies 45 Nesiand Construction 46 Howie Construction 47 Chad Zandstra 48 Eilte Custom Homes 49 Stecor Initiatives LLC 50 Diversified Const 51 Mehihaff Construction 52 Boom Construction 53 The Carpenter Co Inc 54 Ronning Enterprises 55 Jeren Homes Inc South Dai Garage and Carp Year-lo-Date 1; Builder Pe 1 Mills Const 2 Enclave 3 American Builders 4 Select Construction 5 Monton Buildings Inc 6 LC Enterprises 2 7 Build Rite Const Co 8 Kokinos 9 Quinns Building 10 Boom Construction 11 Lloyd Const Week 49 - 11/29/tl Builder 1 Waldner Const 1 Dennis Arnold 3 Select Builders Inc 4 Nesland 5 KN Construction Inc 6 Webde Brothers 1 Construction 1 Cons	4 1 1 6 3 6 6 6 8 7 4 6 4 5 7 7 4 6 6 4 8 7 4 6 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$1,387,206 \$1,380,000 \$1,348,200 \$1,348,200 \$1,348,200 \$1,348,200 \$1,348,200 \$1,348,200 \$1,348,200 \$1,348,200 \$1,348,200 \$1,348,200 \$1,348,200 \$1,348,266 \$1,236,150 \$1,227,380 \$1,227,380 \$1,227,380 \$1,227,380 \$1,227,380 \$1,227,380 \$1,227,380 \$1,227,380 \$1,227,380 \$1,227,380 \$1,227,380 \$1,227,380 \$1,227,380 \$1,227,380 \$1,236,1227,3	Year-to-Date Builder 1 Laylor/Gustafson, A 2 Henry Carison Co 3 McGough Const 4 Lloyd Const 5 Scull Construction 6 Golden Rule Const 7 Clayco 8 Consolidated Const 9 Journey Group Co 10 RCS Construction 11 Journey Group 12 Gil Haugan Const 13 Seco Construction 14 Gustafson Builders 15 POET Design & 16 Reynolds Const 17 Flegen Construction 18 Peska Const 17 Flegen Construction 18 Peska Const 19 Clark Drew Const 20 Lloyd Const & South E Owner-S 19 Clark Drew Const 20 Lloyd Const & South E Construction Type 1 Single Family 2 Garages & Carports 3 Res Rmd, Addn, Int 4 Commercial Week 49 - 11/29 Builder 1 Scull Construction 2 Beck & Hofer Const 3 TBD 4 RCS Construction 5 RCS Storage LLC 6 Lloyd Const & 7 Dean Kurtz 6 Dean Construction 8 RCS CONSTRUCTION 9 RCS CONSTRUCT	12/05/2/ Permits 2 19 2 4 30 8 8 2 4 4 11 9 9 11 8 8 1 1 3 3 3 2 2 3 6 5 4 4 1 1 1 2 2 1 1 2 Permits 4 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	018 V. \$93.675, \$99.314, \$32.052, \$26.728, \$32.052, \$26.728, \$22.851, \$21.884, \$15.793, \$15.566, \$13.065, \$11.025, \$10.191, \$0.866, \$7.643, \$7.503, \$7.503, \$7.503, \$7.503, \$7.503, \$7.503, \$7.500, \$10.018 V. \$13.192, \$3.267, \$8.316, \$3.962, \$11.028, \$3.962, \$11.28, \$8.366, \$7.643, \$7.503, \$7.7205, \$1.128, \$1.128, \$8.316, \$3.962, \$1.128, \$8.356, \$7.93, \$7.94, \$7.94, \$7.94, \$7.94, \$7.94, \$7.95, \$7.94, \$7.95, \$7.94, \$7.95, \$7.94, \$7.95, \$7.94, \$7.95, \$7.94, \$7.95, \$7.94,
South Dakota Build Week 49 - 11/29/18 to 12/ Residential Single Family Homes Demolition Footing & Foundation Duplexes & Twin Homes Apartments & Condos Other Residential Structures Garages & Carports Res Rmdl, Addn, Int Fin Residential Total Residential Total Residential Total Residential Total Residential Auto/Truck Sales & Service Parking Structures & Carports Indus-Manuf, Whse-Shops, Hospitals & Other Institutions Churches & Other Religious Utilities (gas elect wir swr) Agricultural Buildings & Sheds Comm Rmdl, Addn, Int Fin Reroof Commercial Total Commercial Const	ling Perr 05/18 (p. Permits 43 3 13 3 4 6 52 56 131 Permits 1 1 1 2 2 2 2 1 1 1 2 2 7 9 49	\$1,156,809,728 mit Summary ermits over \$5,00 Value \$11,541,790 \$52,050 \$34,411 \$215,000 \$5,200,000 \$114,652 \$999,511 \$118,609 \$18,296,024 Value \$400,000 \$561,899 \$793,000 \$176,500 \$2,375,000 \$12,2600 \$11,400 \$4,013,034 \$635,719 \$10,832,745	3,661 Units 43 0 0 0 2 82 0 0 0 127 Units 0 0 0 0 0 0 110 0 0 0 0 0 0 0 110 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	42 Dailey Construction 43 Skogen Construction 43 Skogen Construction 44 Ronning Companies 45 Nesland Construction 46 Howie Construction 47 Chad Zandstra 48 Eitite Custom Homes 49 Stecor Initiatives LLC 50 Diversified Const 51 Mehthaff Construction 53 The Carpenter Co Inc 54 Ronning Enterprises 55 Jeren Homes Inc South Dai Garage and Carp Year-to-Date 1; Builder 1 Mills Const 2 Enclave 3 American Builders 4 Select Construction 5 Morton Buildings Inc 5 Morton Buildings Inc 6 LC Enterprises 2 7 Build Rite Const Co 8 Kokinos 9 Quinns Building 10 Boom Construction 11 Lloyd Const Week 49 - 11/29/11 Builder 1 Waldner Const 2 Dennis Arnold 3 Select Builders Inc 4 Nesland 5 KN Construction 1 Nesland 5 KN Construction 1 Nesland 5 KN Construction 1 Howel Const 1 Pennis Arnold 3 Select Builders Inc 4 Nesland 5 KN Construction Inc 6 Wehde Brothers 7 Herman & Sons 8 Malini West Midland	4 1 1 6 3 6 6 6 8 8 7 7 4 5 5 7 7 4 6 6 4 4 6 6 4 8 8 10 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$1,387,206 \$1,380,000 \$1,348,200 \$1,348,200 \$1,348,200 \$1,348,200 \$1,348,200 \$1,348,200 \$1,348,200 \$1,348,200 \$1,348,200 \$1,341,052 \$1,311,052 \$1,311,052 \$1,227,380 \$1,228,150 \$1,228,150 \$1,227,380 \$1,218,256 \$1,203,273 Idders Iders Iders Value \$899,000 \$670,633 \$300,878 \$248,000 \$227,350 \$190,000 \$170,000 \$170,000 \$150,000 \$149,600 \$1,000,000 \$100,000 \$100,000 \$10	Year-to-Date Builder 1 Laylon/Gustafson, A 2 Henry Carlson Co 3 McGough Const 4 Lloyd Const 5 Scull Construction 6 Golden Rule Const 7 Clayco 8 Consolidated Const 9 Journey Group Co 10 RCS Construction 11 Journey Group 12 Gil Haugan Const 13 Seco Construction 14 Gustafson Builders 15 POET Design & 16 Reynolds Const 17 Flegen Construction 18 Peska Const 19 Clark Drew Const 20 Lloyd Const & South Cowner-B Year-to-Date Construction Type 1 Single Family 2 Garages & Carports 3 Res Rmdl, Addn, Int 4 Commercial Week 49 - 11/29, Builder 1 Scull Construction 2 Beck & Hofer Const 3 TBD 4 RCS Construction 5 RCS Storage LLC 6 Lloyd Const & 7 Dean Kurtz 8 WS Const	12/05/2(Permits 2 2 19 2 2 4 30 0 8 2 2 4 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	018 V \$93,675, \$39,314, \$32,052, \$26,728, \$28,267,728, \$21,884, \$15,793, \$15,566, \$13,065, \$11,025, \$10,191, \$8,086, \$13,065, \$11,025, \$10,191, \$8,086, \$13,065, \$10,091, \$7,643, \$7,503, \$7,57,205, \$6,415, \$6,264, \$5,900, 018 V \$13,192, \$3,272, \$1,128, \$3,367, \$7,373, \$7,394, \$7,394, \$
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Source: Construction Monitor 2018

Appendix E. Input-Output Modeling

Data Sources

This study uses the IMPLAN Group's input-output modeling data and software (IMPLAN version 3.1). The IMPLAN database contains county, state, zip code, and federal economic statistics, which are specialized by region, not estimated from national averages. Using classic input-output analysis in combination with region-specific Social Accounting Matrices and Multiplier Models, IMPLAN provides a highly accurate and adaptable model for its users. IMPLAN data files use the following federal government data sources:

- U.S. Bureau of Economic Analysis Benchmark Input-Output Accounts of the U.S.
- U.S. Bureau of Economic Analysis Output Estimates
- U.S. Bureau of Economic Analysis Regional Economic Information Systems (REIS) Program
- U.S. Bureau of Labor Statistics Covered Employment and Wages (CEW) Program
- U.S. Bureau of Labor Statistics Consumer Expenditure Survey
- U.S. Census Bureau County Business Patterns
- U.S. Census Bureau Decennial Census and Population Surveys
- U.S. Census Bureau Economic Censuses and Surveys
- U.S. Department of Agriculture Census

IMPLAN data files consist of the following components: employment, industry output, value added, institutional demands, national structural matrices, and inter-institutional transfers. Economic impacts are made up of direct, indirect, and induced impacts. The data used was the most recent IMPLAN data available, which is for the year 2017. All data are reported in 2018 dollars.

Economic impacts are made up of direct, indirect, and induced impacts. The following are suggested assumptions for accepting the impact model: IMPLAN input/output is a production-based model, and employment numbers (from U.S. Department of Commerce secondary data) treat both full- and part-time individuals as being employed.

Regional data for the impact models for value added, employment, and output are supplied by IMPLAN for this impact. Employment assumptions were provided to the model to enable construction of the impact model. From these data, social accounts, production, absorption, and byproducts information were generated from the national level data and were incorporated into the model. All region study definitions and impact model assumptions were agreed on before work with the models began.

Modeling Assumptions

The following are suggested assumptions for accepting the impact model:16

Backward-Linkages: IMPLAN is a backward-linkage model, meaning that it measures the increased demand on industries that produce intermediate inputs as a result of increases in production. However, if an industry increases production, there will also be an increased supply of output for other industries to use in their production. Models that measure this type of relationship are called forward-linkage models. To highlight this concept, consider the example of a new sawmill beginning its operations in a state. The increased production as a result of the sawmill's operations will increase the demand for lumber, creating an increase in activity in the logging industry, as well as other supporting industries such as electric transmission and distribution. IMPLAN's results will include those impacts, but will exclude effects on any wood product manufacturers located nearby that might be impacted by the newly available supply of lumber.

Employment: IMPLAN input-output is a production-based model, and employment numbers (from U.S. Department of Commerce secondary data) treat both full- and part-time individuals as being employed.

Fixed prices and no supply constraints: IMPLAN is a fixed-price model. This means that the modeling software assumes no price adjustment in response to supply constraints or other factors. In other words, the model assumes that firms can increase their production as needed and are not limited by availability of labor or inputs and that firms in the local economy are not operating at full capacity.

Fixed production patterns: Input-output (I-O) models assume inputs are used in fixed proportion, without any substitution of inputs, across a wide range of production levels. This assumption assumes that an industry must double its inputs (including both purchases and employment) to double its output. In many instances, an industry will increase output by offering overtime, improving productivity, or improvements in technology.

Industry homogeneity: I-O models typically assume that all firms within an industry have similar production processes. Any industries that fall outside the typical spending pattern for an industry should be adjusted using IMPLAN's Analysis-by-Parts technique.

Leakages: A small area can have a high level of leakage. Leakages are any payments made to imports or value added sectors, which do not in turn re-spend the dollars within the region. What's more, a study area that is actually part of a larger functional economic region will likely miss some important linkages. For example, workers who live and spend outside the study area may actually hold local jobs.

¹⁶ Bureau of Economic Analysis https://www.bea.gov/papers/pdf/WP IOMIA RIMSII 020612.pdf

Appendix F. Detailed Results

Table 21. Scenario I Impacts, State of Minnesota

rable 22: Section 1 impacts, State of infilinesota								
Impact Type	Employment	Labor Income	Value Added	Output				
Direct Effect	20	\$1.3	\$1.5	\$4.7				
Indirect Effect	6	\$0.5	\$0.8	\$1.7				
Induced Effect	12	\$0.6	\$1.0	\$1.8				
Total Effect	38	\$2.5	\$3.3	\$8.2				

SOURCE: IMPLAN

Table 22. Scenario I Impacts, Arrowhead Region

Impact Type	Employment	Labor Income	Value Added	Output
Direct Effect	20	\$1.3	\$1.4	\$4.7
Indirect Effect	4	\$0.2	\$0.4	\$1.0
Induced Effect	8	\$0.3	\$0.6	\$1.1
Total Effect	33	\$1.9	\$2.4	\$6.8

Source: IMPLAN

Table 23. Scenario II Impacts, State of Minnesota

Impact Type	Employment	Labor Income	Value Added	Output
Direct Effect	50	\$3.3	\$3.6	\$11.7
Indirect Effect	15	\$1.4	\$2.0	\$4.2
Induced Effect	30	\$1.5	\$2.6	\$4.4
Total Effect	95	\$6.2	\$8.2	\$20.3

Source: IMPLAN

Table 24. Scenario II Impacts, Arrowhead Region

rable 2 in occinatio in impacts, 7 in our read region								
Impact Type	Employment	Labor Income	Value Added	Output				
Direct Effect	50	\$3.3	\$3.6	\$11.7				
Indirect Effect	11	\$0.6	\$0.9	\$2.4				
Induced Effect	21	\$0.8	\$1.5	\$2.7				
Total Effect	82	\$4.7	\$6.0	\$16.8				

Source: IMPLAN

Table 25. Scenario III Impacts, State of Minnesota

- a.s.c = 5: 555:14:15 iii iii pasto, 554:15 5: 11:11:155:14							
Impact Type	Employment	Labor Income	Value Added	Output			
Direct Effect	100	\$6.7	\$7.2	\$23.3			
Indirect Effect	31	\$2.7	\$4.1	\$8.4			
Induced Effect	60	\$3.1	\$5.2	\$8.8			
Total Effect	190	\$12.4	\$16.4	\$40.6			

Source: IMPLAN

Table 26. Scenario III Impacts, Arrowhead Region

Impact Type	Employment	Labor Income	Value Added	Output
Direct Effect	100	\$6.7	\$7.2	\$23.3
Indirect Effect	22	\$1.2	\$1.9	\$4.8
Induced Effect	42	\$1.7	\$3.0	\$5.4
Total Effect	163	\$9.5	\$12.0	\$33.6

Source: IMPLAN