DESERET NEWS. THE

WHAT WE EAT.

The adulteration of food and drinks has become almost as general Scarcely an article used by men in process where it was possible to unite some cheaper substance with ability. it. Flour, coffee, tea, sugar, hutter, and a hundred other articles, are well known to be the commonest of No. 43 West Fifty-fourth Street, Missouri. articles that undergo this adulterabeen so often exposed that the public are tolerably acquainted with the manipulations these substances undergo at the hands of experts. Bread, truthfully called the staff

ing this subject some attention, and has published the result of some re-

markable investigations, which are worthy the close attention of thoughtful people.

From its recent exposure of the of baking powders, in place of cream of tartar, the following extracts are mainly taken:

the representative of the Evening of the articles in most general use nearly every family in the city, and to those who eat the food made with it to know whether it contains anything injurious to health. There are certain constituents of regarded as entirely free from danger. They consist of pure grape cream of tartar, bicarbonate of soda, and carbonate of ammonia. The cream of tartar unites with the the same effect as yeast in a much food. shorter time. It has been found, however, that alum will also unite with the other two articles, and carbonic acid gas will be produced. As alum costs less than three cents, than thirty cents, a pound, it is that tends to render the albumen easy to see why alum is substituted of the bread insoluble, and therefor the latter by some baking powder manufactureres. It is admitted value, is injurious." by all medical authorities that cream of tartar leaves no injurious substance in the bread; alum, on the other hand, is in itself an astringent, and there is wide and jurius to health. deep-seated prejudice against its en it is to form two salts of alumi- should not be tolerated in baking the Brooklyn Health Board re- Supt. John Taylor: na-the sulphate and the phosphate powder. of alumina. When used in baking powder the alum forms a third salt, 225 West Twenty-third street, gave gave the following replies: the hydrate of alumina, as well as the following as his opinion onthis, the other two. This hydrate of al- subject: "Bread containing the salts of the present excitement about purpose of visiting the schools of umina is far more easily soluble of alum, which are freely soluble baking powders?" than the other two; hence any objection that may exist to the use of prejudicial to health, the salts actalum alone in bread applies with ing as irritants to the stomach." greater force to its use in baking powder. This fact can be proven medical opinions, the reporter in- any alum in the Royal Baking tating travel and ascertaining spect of pupils and parents. by the following named authorities: vestigated a number of brands of Powder?" Parke is the leader of the new baking powder. The Brooklyn school of hygiene in England, In his "Treatise on Hygiene," he says: "Looking then to the positive evidence, and the reasonableness of that evidence, it seems to me extremely likely that strongly alumed made his report, in which he says: tartar, which it replaces." bread does produce the injurious ef- "From a careful examination, I am fects ascribed to it." These effects, satisfied that the weight of evi- fore, obtain a larger profit by using as to what would be the best means course, it is cheaper to bring a good as he previously states, are indigestion, griping, constipation, and kindred troubles resulting from irrita- incurred in its use are too great to tion of the mucous membrane, produced by the astringent properties ness alone. The mucous memof alum.

have serious results. representative obtained the follow- own analyses, but also those of sev- the Scientific American, makes grasshoppers, I question if there is as the use of these articles itself. ing expressions of opinion as to its eral chemists of high professional special mention of having analyzed any county in the Territory any civilized countries has escaped this from some physicians of New York ry Morton, President Stevens' In- found it composed of wholesome districts numbering only from 12

expressed himself as perfectly certion process. The methods have tain of the injurious effects of alum, whether used alone to whiten bread, or as an adulterant of baking powders. Alluding to the claim advanced that the alum was neutralized and changed into an insoluble of life, is no exception to this rule. salt, he said that this was a wholly The New York Post has been giv- improbable assumption, since such a perfect change could not take place the bicarbonate of soda were combined in the exact chemical ratio "PATAPSCO"...... contains Alum. necessary for each to absorb all of the other. Not only was this imuse of burnt alum in some brands possible in the manufacture of large quantities of baking powder, but "ANDREWS' REGAL"......contains Alum. the homogeneous character of the compound could not be exactly Pursuing the investigation of the maintained throughout the whole sure to be a certain amount of free Post took up baking powder as one alum in any bread made with an alum baking powder. But even if in cur households. It is used by the exact proportion were main- "AMAZON"...... contains Alum. tained, the salts formed would reit is naturally of great importance tain their injurious properties, as they would be dissolved in the gastric juice. The gastric juice coutained not only lactic acid, but a large amount of hydro-chloric acid The phosphate might not be, but in that case the bread would be deprived of one of its most desirable ingredients, making the use of other two ingredients, and carbonic alum not only dangerous to the acid gas is thrown off producing stomach, but deteriorating to the "The hydrate of alumina," Dr. be injurious to the mucous membrane. It would inevitably tend to constipate the bowels and interwhile cream of tartar costs more fere with digestion; and anything fore takes away from its nutritive Dr. Willard Parker said that if "RI HA"D'S QUEEN" contains Alum alum was substitued for cream of tartar in baking powder, in his opinion such powder would be in-Dr. Alonze Clark considers that use. In England and other coun- alum has its uses, but it should not the reporter called at the office of tries the adulteration of food with be ignorantly taken into the stom. the Royal Baking Powder Compaalum is forbidden by law under ach in food. A substance which ny, No. 171 Duane Street, the manuheavy penalties. The chemical ef- can derange the stomach, and in facturers of the Royal Baking Powfect of alum used in bread to whit- certain cases produce vomiting der, a brand which the report of

of the baking powders having a taking their powder.

Dr. Mott's report is as follows: Dear Sir,-In accordance with your request, I herewith embody the results of the analyses of baking powders, in all of which alum was found as an ingredient:

(J. C. Grant, Philadelphia.) "INVINCIBLE"..... contains Alum, (Snyder Bros. & Co. Cincinnati) (Dooley & Bro., New York.) (Smith, Hanway & Co., Baltimore, Md.) (Rohrer, Christian & Co., St. Louis.) (C. E. Andrews & Co., Milwaukee.) "QUEEN"..... contains Alum (Bennett & Sloan, New Haven, Connecticut)

To make sure of knowing the ac- wide sale. Dr. Mott kindly fur- Dr. Mott, the Government Chem- taking into consideration the loss of tion of alum, the Evening Post's nished not only the results of his ist, in his review of this subject in crops, year after year, by frost and effect when used in baking powder standing, including Professor Hen- the Royal Baking Powder, and better supplied. The smallest of the highest reputation and stitute of Technology; Professor R. materials. He also advises the to 20 families, are furnished with W. Schedler; Dr. Stillwell, of Walz public to avoid purchasing baking nice commodities and mostly brick Dr. William A. Hammond, form- & Stillwell, analytical chemists, powders as sold loose or in bulk, as schoolhouses, well finished on the erly Surgeon-General United States, this city, and Professor Patrick, of he found by analyses of many sam- outside, and with an aperture in ples that the worst adulterations the ceiling for ventilation. But, I are practiced in this form-the label am sorry to state that in many inand trade-mark of a well-known stances, the children's comfort on and responsible manufacturer, he the inside has been neglected, and adds, is the best protection the the house has been seated more for public can have.-Harper's Bazar. meeting purposes than for accom-

Correspondence.

Accidental Death.

CROYDON, Morgan Co., Feb. 2d, 1879.

Editors Deserct News:

By request, it is my painful duty to write you the cause of the demise of an esteemed brother, Thomas Price, while he was working in the

moreover, even a small dose may alum in large quantities in many said to have dropped dead from Morgan County, as a rule, is well supplied with school houses, and modating the children at school. This is, of course, wrong, when we remember that the parents are only occupying the house but a little over two hours on the Sabbath day, while the children have to be in school six hours a day for five days in the week, and then we expect them to attend the Sabbath school and all the rest of the meetings besides. I question if plain decent furniture would cost much more than forms, and would seat almost as many. Many of the houses also lack charts, globes and blackboards; in such cases, the teacher has nothing but the dry text book to interest his pupils. Couple with that an old-time teacher, or a man who has never had any experience in teaching, nor qualified himself for the office, by attending a school where he might get a good practical system, and is it any wonder that in many instances we are compelled to drive our children to school with the rod, where teacher again receives the them "with frown to make a statue thrill," and with a similar weapon to the former to bid them welcome? Why can we not smile on our children; they in their innocent glees, are sent to us from the courts above, and God will surely smile on us if we treat them as men and women in embryo. The result from the first method is, that our young men and ladies are not found there at all, and only the little ones who cannot help themselves, are immured between those dusky walls. Garnish the inside of the schoolhouse and get a teacher who will govern with kindness instead of the rod, and who understands his profession as the mechanic must who undertakes to make a beautiful bureau, and see if we will not soon have a change. The schools were all in session, but as already intimated were mostly attended by the little ones with but few exceptions. The teachers were mostly young men and young ladies, born and educated in Utan, and what they lacked in qualification, however, was gene-Dear Brother. - In accordance rally made up in exemplary habits. with your appointment, I left Og- The best school taught, in my estimation, is the one at North Morgan under the direction of Miss Rhoda Slate, a young lady who has been attending the University for two years. She appears to have a natuof tartar by some manufacturers." where a programme could be ar- ral tact for teaching by which she has won the good feelings and re-President Smith and the leading the close of my tour in each coun- men are anxious to promote the ty, I again appointed a meeting, to educational interests of the county; Board of Health have both ordered used by others. What is it used which the trustees, teachers and they have realized for some time leading men were invited. My ob- the necessity of establishing a high MR. HOAGLAND. "I presume be- ject in calling this meeting was to school or seminary, where their tendent of the Brookly Board has cause it is cheaper than cream of tell the teachers and trustees the youth might be educated, instead defects of their schools and school- of depending on transients or sendhouses, and to counsel with them ing their children abroad, fur, of MR. HOAGLAND. "Yes, sir, for a abroad. I take pleasure in stating than to send a few away from home time such substitution would more that these meetings were always subject to the temptations now ex-

Feb. 19

34

(Church & Co., New York City) (Crouse, Walrath & Co., Syracuse,

(Erskine & Erskine, Louisville, Ky)

(C. O Perrin, Chicago, Ill.)

"TWIN SISTERS" contains Alum. (Union Chemical Works, Chicago, Ill) SUPERLATIVE" contains Alum. (A. W. Zeitlow & Co, New York.) (Jewett & Sherman Co. Milwaukee,

"MON ARCH" contains Alum. (Ricker, Combie & Co., Milwaukee, Wis.)

"ONE SPOON" contains Alum. (Taylor Manufacturing Co., St. Louis.) "IMPERIAL" Contains Alum. (Spragues, Warner & Griswold, Chicago)

(Schoch & Wechsler, St. Pau., Minn.) (Spencer Bros. & Co., Chicago.[

(Thomson & Taylor, Chicago, 111.) (W. F. McLaughlin, Chicago.) (Star Chemical Works, Chicago.)

> Yours very truly, HENRY A. MOTT, Jr., Ph. D., E. M.

Having obtained the foregoing, vealed to be pure. Mr. J. C. Hoagland, President of the Company,

coal mines, Grass Creek, Summit County. On the 6th of January a piece of coal (about five cwt.) fell and struck his back, from which injury he died on the 29th ult.

During his sufferings he was not pass his lips; he died as he had lived, a faithful Latter-day Saint, well respected by all who knew him. He was a hard working man, a loving, kind, and indulgent husband and father, also a good citizen. He left an affectionate, faithful wife and four children to mourn his loss.

He was born Dec. 24, 1828, at Landfice, South Wales. When 17 years old he joined the Church of Jesus Christ of Latter-day Baints, emigrated to Utah in the year 1851. For some years has been a member of the High Priest's Quorum.

Yesterday a large concourse of people assembled to pay their last respects, by attending the funeral. Appropriate addresses by Bishop, John Hopkin, Elders S. Edwards and E. Swann, after which the body was consigned to the silent tomb to wait a glorious resurrection. Your brother in the gospel, GEO. K. BOWERING.

N. B. - Millennial Star please copy.

> OGDEN CITY, January 27th, 1879.

Dr. Le Grand N. Denslow, of No. in the gastric juice, is undoubtedly

Having obtained the foregoing Board of Health and the New York an official investigation of baking for?" powder, and the Sanitary Superinbaking powders, and that the risks | tar?" be incurred for the sake of cheap-

branes of the stomach and the in-In Dr. Hammond's work on hy- testinal canal is a delicate structure, not use it?"

also probable that the continued in- the same report mentions the Royal tar, which is demonstrated to be ears of the people, which other- tion, and I believe ere long both gestion of alum is calculated to Baking Powder as free from alum, wholesome; second, our experience wise we could not have done. The Morgan and Summit Counties will disorder the healthy action of the or any other substance injurious to during twenty years has satisfied houses were generally filled and the educate their advanced students at digestive system." us that that which is best for the people manifested great interest in home. The children appeared bright life or health. Persons who have not strong con- There are probably more than public is best for us. We cannot the education of their children. and intelligent and comely in dress; stitutions, growing girls, young five hundred kinds of baking pow- afford to peril the reputation of the Realizing also that the smallest indeed I never have in all my travand poorest districts were usually els in the New World or the Old children, and nursing mothers, are der manufactured in this country, Royal Baking Powder." particularly liable to the evil effects and, while some of them are sold Other interviews were had, all to neglected on occasions like this, I seen any fairer faces or any brighter produced by this use of alum. from the Atlantic to the Pacific, the the same general effect, namely, determined that so far as my feeble eyes nor any better dressed children Heartburn and the prevalent forms majority have only a local sale near that alum is used by many manu- efforts were concerned, I would than these two counties exhibited. of indigestion are often solely trace- their respective places of manufac- facturers to cheapen their powder labor where the greatest amount of The school-houses of Summit able to the action of alum on the ture. Through Dr. Henry A. Mott, and enable them to undersell their good could be accomplished, and County were rather inferior to delicate coats of the stomach. Those Jr., the well-known chemist, one of competitors. Many of them are where the most assistance was those of Morgan, but the character who think the size of the dose is the most competent, trustworty, probably ignorant of the evil effects needed; this, of course, required of the schools was somewhat of a too small to be dangerous, will see and careful experts of this country, of alum on the system, while oth- more time than I at first anti ipat- higher grade. I found more of the by the accompanying analysis that the following analyses were ob- ers are indifferent so long as they ed, but still no district felt itself young men and young ladies enrolled, and the students are, I think, the dose is not so small after all; tained, showing the presence of make money, and no one can be neglected.

MR. HOAGLAND. "No, sir." REPORTER. "But I find that it is

REPORTER, "You would, there-

than double our profits."

gience, written in 1860, the follow- and materials which would produce MR. HOAGLAND. "For two rea- county, as well as men interested is very good, so far as it goes, but ing passages occur: "Alum acts by no effect on the outside skin might sons: first, the authorities on this in the cause of education. we should remember that all who At the first meeting referred to, are sent will not return teachers; a rendering the albumen (in the irritate and inflame these organs." point are so positive and conclu-The analysis of the various bak- sive that the continued use of alum we arranged to visit two schools a man may be well educated and bread) less soluble." The use of alum in bread is injurious, both be- ing powders, as officially reported in this way is dangerous to health, day and hold meeting every even- then be not fit to teach ischool. cause it tends to conceal the bad by the Brooklyn Board, reveals only that we could not conscientiously ing at the settlement where we The bishops and trustees were alquality of the flour employed, and two brands containing alum being use it; if others choose to take risks visited in the afternoon. These ways present when we visited their because it is capable of exercising sold in that city-Dooley's and Pa- on the public health, we shall not meetings were always attended by schools, except in one instance, at follow them, preferring to continue the youth and the aged, by means Wanship, and all appeared to realan injurious effect upon the bread | tapsco. by rendering it indigestible. It is As to the cream of tartar powders, the use of pure grape cream of tar- of which we gained access to the ize the necessity of such an institu-

REPORTER. "What is the cause den City, Jan. 5th, 1879, for the Morgan and Summit counties. My MR. HOAGLAND. "It is due to plan of procedure was as follows: the substitution of alum for cream I first called a trustees' meeting, REPORTER. "Have you ever used ranged, with the object of faciliwhat schools were in session. At dence is against the use of alum in alum than by using cream of tar- of improving them, rather than to teacher into the county, and thus publish a man's name or a district give all a chance of an education, attended by the Presidency of the isting in our cities without the pa-REPORTER. "Why, then, do you Stake, the Bishops, nearly all the rental care to guard them. To detrustees and school teachers of the pend on the University for teachers