

RADIO PROGRAMS—FRIDAY

Programs listed below are received from the radio stations and the Mail Tribune assumes no responsibility except to make changes as are supplied.

KYJZ 1230 kc	KMED 1440 kc	KWIN 1400 kc
4:00—Traffic Jam	News—Hear	Paul Walker
4:15—Traffic Jam	Local News—Hear	Paul Walker
4:30—Traffic Jam	Local News—Hear	Paul Walker
5:00—Thomas-Sports	News—Swingshift	Paul Walker
5:15—Sound 1230	News—Sports	Paul Walker
5:30—Tom Harmon**	Orville Anderson*	Hotchkiss—News
5:45—Frank Goss**	County News	Perry Hotchkiss
6:00—News**	News—Sing Gloria	Perry Hotchkiss
6:15—Sound 1230	Sing Gloria	Perry Hotchkiss
6:30—Story Hour	Sing Gloria	Perry Hotchkiss
6:45—Sound 1230	Monitor	Hotchkiss—News
7:00—News—Amos-Andy**	News—Monitor	Perry Hotchkiss
7:15—Amos-Andy**	Monitor	Perry Hotchkiss
7:30—Hi-Fi Club	Monitor	Hotchkiss—News
7:45—Hi-Fi Club	Monitor	Hotchkiss—News
8:00—Hi-Fi Club	Monitor	Hotchkiss—News
8:15—Hi-Fi Club	Monitor	Hotchkiss—News
8:30—Sound 1230	Monitor	Hotchkiss—News
8:45—Sound 1230	Monitor	Hotchkiss—News
9:00—Army of Stars**	News—Go	Go
9:15—Sound 1230	Go	Go
9:30—Sound 1230	Go	Go
9:45—Sound 1230	Go	Go
10:00—Richfield Reporter**	News—Nightbeat	Count Down—White
10:15—Sound 1230	Nightbeat	Count Down—White
10:30—Sound 1230	Nightbeat	Count Down—White
10:45—Sound 1230	Nightbeat	Count Down—White
11:00—Sign Off	News	Sign Off
11:15—	Nightbeat	Sign Off
11:30—	Sign Off	Sign Off
11:45—	Sign Off	Sign Off
12:00—	Sign Off	Sign Off

RADIO PROGRAMS—SATURDAY

KYJZ 1230 kc	KMED 1440 kc	KWIN 1400 kc
6:00—News**	Wake Up to Music	Jim Ochs
6:15—Sound 1230	Wake Up to Music	Local News
6:30—Sound 1230	Wake Up to Music	Local News
6:45—Sound 1230	Wake Up to Music	Local News
7:00—News Roundup**	First News	Jim Ochs
7:15—Man Arnd House**	Weather—News	Jim Ochs
7:30—Sound 1230	Weather—News	Jim Ochs
7:45—Changing Times**	Weather—News	Jim Ochs
8:00—News**	Monitor	Jim Ochs
8:15—Frank Goss**	Monitor	Jim Ochs
8:30—Steve Lawrence**	Monitor	Paul Walker
8:45—Steve Lawrence**	Monitor	Paul Walker
9:00—News**	Monitor	Paul Walker
9:15—Sound 1230	Monitor	Paul Walker
9:30—Sound 1230	Monitor	Paul Walker
9:45—Sound 1230	Monitor	Paul Walker
10:00—News**	Farm and Home	Paul Walker
10:15—Sound 1230	Farm and Home	Paul Walker
10:30—Sound 1230	Farm and Home	Paul Walker
10:45—Sound 1230	Farm and Home	Paul Walker
11:00—Sound 1230	Blue-Gray	Russ White
11:15—Sound 1230	Blue-Gray	Russ White
11:30—Sound 1230	Blue-Gray	Russ White
11:45—Sound 1230	Blue-Gray	Russ White
12:00—Sound 1230	Blue-Gray	Russ White
12:15—Sound 1230	Blue-Gray	Russ White
12:30—Sound 1230	Blue-Gray	Russ White
12:45—Sound 1230	Blue-Gray	Russ White
1:00—Sound 1230	Blue-Gray	Russ White
1:15—Sound 1230	Blue-Gray	Russ White
1:30—Sound 1230	Blue-Gray	Russ White
1:45—Sound 1230	Blue-Gray	Russ White
2:00—Sound 1230	Monitor	Paul Walker
2:15—Sound 1230	Monitor	Paul Walker
2:30—Sound 1230	Monitor	Paul Walker
2:45—Sound 1230	Monitor	Paul Walker
3:00—News**	Monitor	Paul Walker
3:15—Dance Orchestra**	Monitor	Paul Walker
3:30—Dance Orchestra**	Monitor	Paul Walker
3:45—Sound 1230	Monitor	Paul Walker
4:00—News**	Monitor	Paul Walker
4:15—Sound 1230	Monitor	Paul Walker
4:30—Sound 1230	Monitor	Paul Walker
4:45—Sound 1230	Monitor	Paul Walker
5:00—News**	Monitor	Paul Walker
5:15—Sound 1230	Monitor	Paul Walker
5:30—Sound 1230	Monitor	Paul Walker
5:45—Sound 1230	Monitor	Paul Walker
6:00—News**	Monitor	Paul Walker
6:15—Sound 1230	Monitor	Paul Walker
6:30—Sound 1230	Monitor	Paul Walker
6:45—Sound 1230	Monitor	Paul Walker
7:00—News**	Monitor	Paul Walker
7:15—Sound 1230	Monitor	Paul Walker
7:30—Sound 1230	Monitor	Paul Walker
7:45—Sound 1230	Monitor	Paul Walker
8:00—Hi-Fi Club	Monitor	Paul Walker
8:15—Hi-Fi Club	Monitor	Paul Walker
8:30—The Messiah**	Monitor	Paul Walker
8:45—The Messiah**	Monitor	Paul Walker
9:00—The Messiah**	Monitor	Paul Walker
9:15—The Messiah**	Monitor	Paul Walker
9:30—The Messiah**	Monitor	Paul Walker
9:45—The Messiah**	Monitor	Paul Walker
10:00—The Messiah**	Monitor	Paul Walker
10:15—The Messiah**	Monitor	Paul Walker
10:30—Sound 1230	Monitor	Paul Walker
10:45—Sound 1230	Monitor	Paul Walker
11:00—Sign Off	Monitor	Paul Walker

*ABC **CBS *NBC *MBS **ABC

KBOY AM 730 kc — FM 95.3 Meg.

3:45—Request Time	10:00—Top Thirty
4:15—Sign off AM channel	11:30—Clemens-time
4:30—Evening Vespers	12:00—Livestock Report
5:00—Dinner Music	12:15—Farm Market
5:30—Dance Request	12:30—Bargain Roundup
12:00—Sign off	12:45—Rogue Valley Hit Parade

KDOV 1300 KC

4:00—School Bell	11:45—Weather
4:15—Sign Off	12:00—Market Report
4:30—Edge of Night	12:15—Livestock Report
5:00—Uncle Bill's Cartoons	12:30—Trader Horn
5:30—Huckleberry Round	12:45—Dixieland Jazz
6:00—TV Weatherman	1:00—Meeting Notices
6:15—News	1:15—School Bell
6:30—Douglas Edwards	1:30—Sign Off
6:45—Californians	
7:00—1950 Sports Review	
7:15—Feature File	
7:30—Navy Log	
7:45—Hotel de Paris	
8:00—Desilu House	
8:15—Twilight Zone	
8:30—Person to Person	
8:45—News	
9:00—"Balalaika"	
9:15—Sign Off	

TELEVISION PROGRAMS

The following TV broadcast log is printed as a free public service for the Mail Tribune's readers and TV viewers. Schedule changes are printed as provided by the TV stations and the Mail Tribune cannot accept responsibility for errors or omissions.

KBES-TV (Channel 5)

4:00—Brighter Day	10:00—Cartoon
4:15—Secret Storm	10:15—Heckle & Jeckle
4:30—Edge of Night	10:30—Dr. Bowe Regatta
5:00—Uncle Bill's Cartoons	10:45—Copper Bowl
5:30—Huckleberry Round	11:00—Santa Anita Races
6:00—TV Weatherman	11:15—Sky King
6:15—News	11:30—Championship Bowling
6:30—Douglas Edwards	11:45—Tubule USA
6:45—Californians	12:00—Saturday Showcase
7:00—1950 Sports Review	12:15—Phil Silvers
7:15—Feature File	12:30—Wanted Dead or Alive
7:30—Navy Log	12:45—Mr. Lucky
7:45—Hotel de Paris	1:00—Have Gun Will Travel
8:00—Desilu House	1:15—Gunsmoke
8:15—Twilight Zone	1:30—Manhunt
8:30—Person to Person	1:45—News
8:45—News	2:00—"Trouble for Two"
9:00—"Balalaika"	12:30—Sign Off

SUNDAY

10:30—Cartoon	10:30—Football Kickoff
10:45—Colts-Giants	11:00—Colts-Giants
11:00—Colts-Giants	11:15—TBA
11:15—Colts-Giants	11:30—Championship Bridge
11:30—Colts-Giants	11:45—Seven League Boots
11:45—Colts-Giants	12:00—Dan Smoot
12:00—Colts-Giants	12:15—Small World
12:15—Colts-Giants	12:30—20th Century
12:30—Colts-Giants	12:45—Flight
12:45—Colts-Giants	1:00—Cannonball
1:00—Colts-Giants	1:15—Ed Sullivan
1:15—Colts-Giants	1:30—GE Theater
1:30—Colts-Giants	1:45—Alfred Hitchcock
1:45—Colts-Giants	2:00—Jack Benny
2:00—Colts-Giants	2:15—What's My Line
2:15—Colts-Giants	2:30—To Tell the Truth
2:30—Colts-Giants	2:45—News
2:45—Colts-Giants	3:00—Sign Off

KOTI-TV (Channel 2)

5:00—American Bandstand	11:00—Huckleberry Mount
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STAR GAZER

ARIES	Taurus	Scorpio
13-18-30-33	13-18-30-33	13-18-30-33
49-63-84-87	49-63-84-87	49-63-84-87
70-75-79-84	70-75-79-84	70-75-79-84
85-89-93-97	85-89-93-97	85-89-93-97
98-102-106-110	98-102-106-110	98-102-106-110
111-115-119-123	111-115-119-123	111-115-119-123
124-128-132-136	124-128-132-136	124-128-132-136
137-141-145-149	137-141-145-149	137-141-145-149
150-154-158-162	150-154-158-162	150-154-158-162
163-167-171-175	163-167-171-175	163-167-171-175
176-180-184-188	176-180-184-188	176-180-184-188
189-193-197-201	189-193-197-201	189-193-197-201
202-206-210-214	202-206-210-214	202-206-210-214
215-219-223-227	215-219-223-227	215-219-223-227
228-232-236-240	228-232-236-240	228-232-236-240
241-245-249-253	241-245-249-253	241-245-249-253
254-258-262-266	254-258-262-266	254-258-262-266
267-271-275-279	267-271-275-279	267-271-275-279
280-284-288-292	280-284-288-292	280-284-288-292
293-297-301-305	293-297-301-305	293-297-301-305
306-310-314-318	306-310-314-318	306-310-314-318
319-323-327-331	319-323-327-331	319-323-327-331
332-336-340-344	332-336-340-344	332-336-340-344
345-349-353-357	345-349-353-357	345-349-353-357
358-362-366-370	358-362-366-370	358-362-366-370
371-375-379-383	371-375-379-383	371-375-379-383
384-388-392-396	384-388-392-396	384-388-392-396
397-401-405-409	397-401-405-409	397-401-405-409
410-414-418-422	410-414-418-422	410-414-418-422
423-427-431-435	423-427-431-435	423-427-431-435
436-440-444-448	436-440-444-448	436-440-444-448
449-453-457-461	449-453-457-461	449-453-457-461
462-466-470-474	462-466-470-474	462-466-470-474
475-479-483-487	475-479-483-487	475-479-483-487
488-492-496-500	488-492-496-500	488-492-496-500
501-505-509-513	501-505-509-513	501-505-509-513
514-518-522-526	514-518-522-526	514-518-522-526
527-531-535-539	527-531-535-539	527-531-535-539
540-544-548-552	540-544-548-552	540-544-548-552
553-557-561-565	553-557-561-565	553-557-561-565
566-570-574-578	566-570-574-578	566-570-574-578
579-583-587-591	579-583-587-591	579-583-587-591
592-596-600-604	592-596-600-604	592-596-600-604
605-609-613-617	605-609-613-617	605-609-613-617
618-622-626-630	618-622-626-630	618-622-626-630
631-635-639-643	631-635-639-643	631-635-639-643
644-648-652-656	644-648-652-656	644-648-652-656
657-661-665-669	657-661-665-669	657-661-665-669
670-674-678-682	670-674-678-682	670-674-678-682
683-687-691-695	683-687-691-695	683-687-691-695
696-700-704-708	696-700-704-708	696-700-704-708
709-713-717-721	709-713-717-721	709-713-717-721
722-726-730-734	722-726-730-734	722-726-730-734
735-739-743-747	735-739-743-747	735-739-743-747
748-752-756-760	748-752-756-760	748-752-756-760
761-765-769-773	761-765-769-773	761-765-769-773
774-778-782-786	774-778-782-786	774-778-782-786
787-791-795-799	787-791-795-799	787-791-795-799
800-804-808-812	800-804-808-812	800-804-808-812
813-817-821-825	813-817-821-825	813-817-821-825
826-830-834-838	826-830-834-838	826-830-834-838
839-843-847-851	839-843-847-851	839-843-847-851
852-856-860-864	852-856-860-864	852-856-860-864
865-869-873-877	865-869-873-877	865-869-873-877
878-882-886-890	878-882-886-890	878-882-886-890
891-895-899-903	891-895-899-903	891-895-899-903
904-908-912-916	904-908-912-916	904-908-912-916
917-921-925-929	917-921-925-929	917-921-925-929
930-934-938-942	930-934-938-942	930-934-938-942
943-947-951-955	943-947-951-955	943-947-951-955
956-960-964-968	956-960-964-968	956-960-964-968
969-973-977-981	969-973-977-981	969-973-977-981
982-986-990-994	982-986-990-994	982-986-990-994
995-999-1003-1007	995-999-1003-1007	995-999-1003-1007

The Medical Roundup

by Walter Alvarez

Emeritus Consultant in Medicine
Mayo Clinic
Emeritus Professor of Medicine
Mayo Clinic

How We Get New Drugs

Of late, I have talked with some of the brilliant chemists who, in recent years, have given us many of our wonderful new drugs. As these chemists reminded me, the first job is often to take a drug that has been found to have value and then to take it apart and rebuild it in perhaps a hundred ways, hoping always to strengthen its good qualities and, at the same time, get rid of its few bad ones.

Today, this drug-making game is coming to be such an exact science that an expert can say what part of the molecule must not be changed if the substance is to be a sedative or an anesthetic or a muscle relaxant. He may also be able to guess what sort of a drug he will get if he adds certain "side-chains" to the molecule. Some side-chains will strengthen it as a medicine, while others will make it so toxic that it cannot be given to patients.

Have High Hopes

Every so often these chemists have the joy of finding an entirely new type of chemical that will act, let us say, like morphine, and then for a while they will have high hopes that they can make a powerful pain-killer that won't cause habituation. The sad feature of all this is that sometimes a group of chemists who have worked hopefully on a problem for a few years have to quit, and start all over again, beginning with another substance. Because they went up the wrong tree their years of effort and hundreds of thousands of dollars went for naught.

Along the way the chemists will be turning over the most hopeful of the new chemicals they have made to a team of men and women who will test the substances on mice and rats to see what the "physiological actions" are. Some drugs will raise blood pressure and some will lower it; some will make a savage rat tame, while

some will make a tame rat irritable and dangerous to handle.

Must Be Tried Out

When the testers on small animals find a drug that looks promising, it must next be tried out on men and women. Sometimes this process takes two years, during which time able specialists try to make sure that the new drug is not only useful but safe.

Sometimes it is heart-breaking to find that a wonderful new pain-reliever can cause serious "side-effects," such as vomiting, or a skin rash, or dangerous changes in the blood. If a new drug looks good and passes its tests, it is turned over to the experts of the U.S. Food and Drug Administration who will not permit it to be marketed until they are sure it is reasonably safe